

FCC SAR Test Report

Report No. : SA171122C17-1
Applicant : Honeywell International Inc.
Address : 9680 Old Bailes Road, Fort Mill, SC 29707 USA
Product : Dolphin CT60
FCC ID : HD5-CT60L1N
Brand : Honeywell
Model No. : CT60L1N
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
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CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

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Release Control Record

Report No.	Reason for Change	Date Issued
SA171122C17-1	Initial release	Jan. 05, 2018

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1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest SAR-1g Head (W/kg)	Highest SAR-1g Body-worn Tested at 10 mm (W/kg)	Highest SAR-1g Hotspot Tested at 10 mm (W/kg)	Highest SAR-10g Product Specific Tested at 0 mm (W/kg)
PCE	GSM850	0.42	0.58	0.58	N/A
	GSM1900	0.34	0.55	0.55	N/A
	WCDMA II	0.74	1.12	1.12	N/A
	WCDMA IV	0.63	1.18	1.18	N/A
	WCDMA V	0.55	0.67	0.67	N/A
	CDMA BC0	0.64	0.77	0.77	N/A
	CDMA BC1	0.47	1.19	1.19	N/A
	CDMA BC10	0.53	0.74	0.74	N/A
	LTE 2	0.73	1.06	1.06	N/A
	LTE 4	0.68	0.93	0.93	N/A
	LTE 5	0.45	0.55	0.55	N/A
	LTE 7	0.38	0.90	1.04	N/A
	LTE 12 & 17	0.21	0.53	0.53	N/A
	LTE 13	0.36	0.58	0.58	N/A
	LTE 25	0.51	0.87	0.87	N/A
	LTE 26	0.37	0.51	0.51	N/A
	LTE 38	0.24	0.46	0.56	N/A
	LTE 41	0.25	0.46	0.59	N/A
DTS	2.4G WLAN	0.54	0.19	0.19	N/A
NII	5G WLAN	0.42	0.29	0.40	0.28
DSS	Bluetooth	0.05	0.00	0.00	N/A
DXX	NFC	N/A	N/A	N/A	N/A
Highest Simultaneous Transmission SAR		Head	Body-worn	Hotspot	Product Specific
		1.18	1.48	1.59	N/A

Note:

1. The SAR criteria (**Head & Body: SAR-1g 1.6 W/kg, and Extremity: SAR-10g 4.0 W/kg**) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.
2. This device supports both LTE band 12 and band 17. The frequency span of LTE band 12 can completely cover LTE band 17, and they has the same tune-up power. SAR was tested for LTE band 12 only.

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2. Description of Equipment Under Test

EUT Type	Dolphin CT60
FCC ID	HD5-CT60L1N
Brand Name	Honeywell
Model Name	CT60L1N
HW Version	V1.0
HW P/N	DVT3
SW Version	OS.01.001-HON.01.003
SW P/N	329D
Tx Frequency Bands (Unit: MHz)	GSM850 : 824.2 ~ 848.8 GSM1900 : 1850.2 ~ 1909.8 WCDMA Band II : 1852.4 ~ 1907.6 WCDMA Band IV : 1712.4 ~ 1752.6 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 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 4 : 1710.7 ~ 1754.3 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 5 : 824.7 ~ 848.3 (BW: 1.4M, 3M, 5M, 10M) LTE Band 7 : 2502.5 ~ 2567.5 (BW: 5M, 10M, 15M, 20M) LTE Band 12 : 699.7 ~ 715.3 (BW: 1.4M, 3M, 5M, 10M) LTE Band 13 : 779.5 ~ 784.5 (BW: 5M, 10M) LTE Band 17 : 706.5 ~ 713.5 (BW: 5M, 10M) LTE Band 25 : 1850.7 ~ 1914.3 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 26 : 814.7 ~ 848.3 (BW: 1.4M, 3M, 5M, 10M, 15M) LTE Band 38 : 2572.5 ~ 2617.5 (BW: 5M, 10M, 15M, 20M) LTE Band 41 : 2498.5 ~ 2687.5 (BW: 5M, 10M, 15M, 20M) WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5825 Bluetooth : 2402 ~ 2480 NFC : 13.56
Uplink Modulations	GSM & GPRS : GMSK EDGE : 8PSK WCDMA : QPSK CDMA : QPSK LTE : QPSK, 16QAM, 64QAM 802.11b : DSSS 802.11a/g/n/ac : OFDM Bluetooth : GFSK, $\pi/4$ -DQPSK, 8-DPSK NFC : ASK
Maximum Tune-up Conducted Power (Unit: dBm)	Please refer to section 4.6.1 of this report
Antenna Type	PIFA Antenna
EUT Stage	Engineering sample

Note:

- 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	Inventus
	Model Name	CT50-BTSC
	Power Rating	3.6Vdc, 4040mAh, 14.6Wh
	Type	Li-ion

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be related to the electrical field in the tissue by

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

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

3.2 SPEAG DASY52 System

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

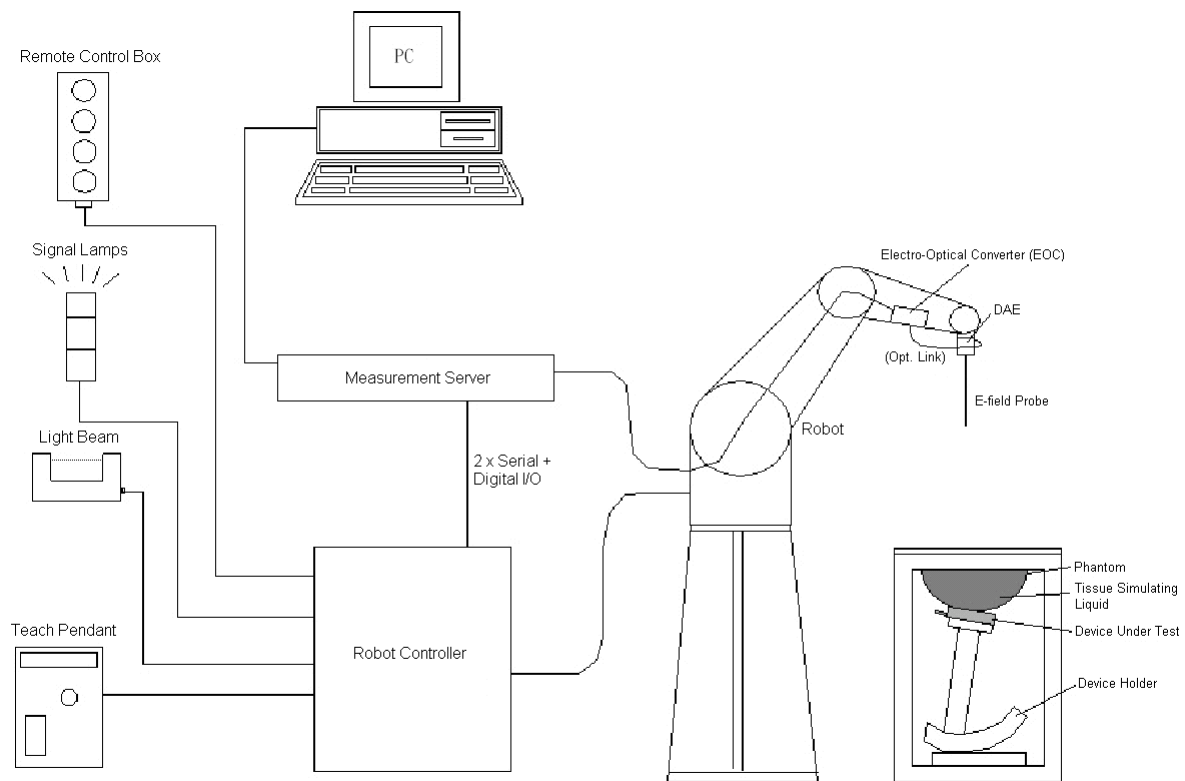


Fig-3.1 SPEAG DASY52 System Setup

3.2.1 Robot

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

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



Fig-3.2 SPEAG DASY52 System

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3.2.2 Probes

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

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

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

Model	ET3DV6	
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz to 2.3 GHz; Linearity: ± 0.2 dB	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.4 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g to 100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (Tip: 16 mm) Tip diameter: 6.8 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.7 mm	

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3.2.3 Data Acquisition Electronics (DAE)

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

3.2.4 Phantoms

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

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

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3.2.5 Device Holder

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

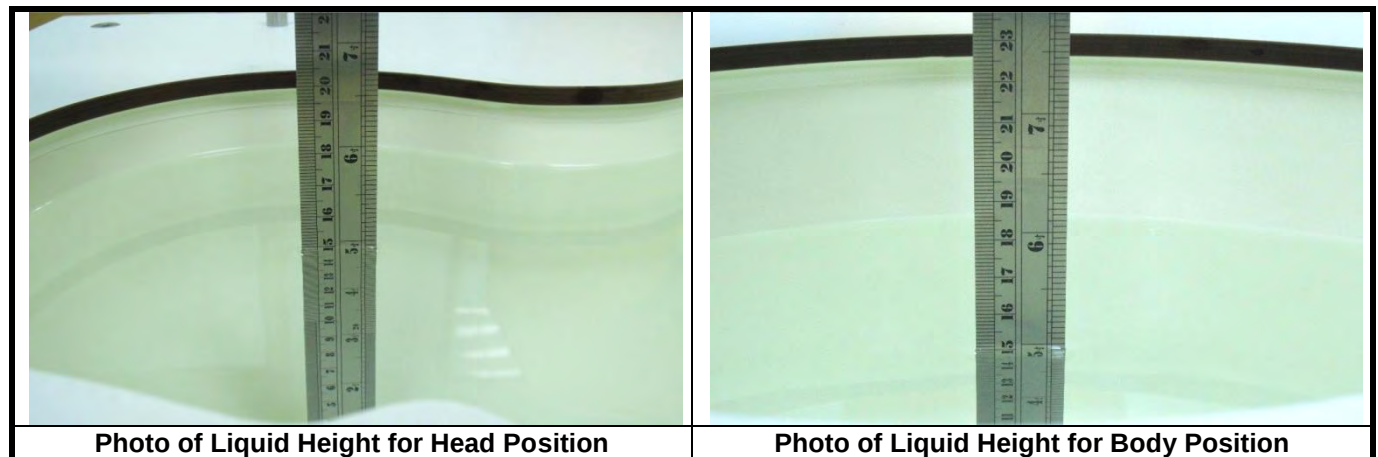
Model	Laptop Extensions Kit	
Construction	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the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

3.2.6 System Validation Dipoles

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

3.2.7 Tissue Simulating Liquids

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



The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528 and IEC 62209-1. For the body tissue simulating liquids, the dielectric properties are defined in RSS-102 Annex D and IEC 62209-2. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using a dielectric assessment kit and a network analyzer.

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Table-3.1 Targets of Tissue Simulating Liquid

Frequency (MHz)	Target Permittivity	Range of $\pm 5\%$	Target Conductivity	Range of $\pm 5\%$
For Head				
750	41.9	39.8 ~ 44.0	0.89	0.85 ~ 0.93
835	41.5	39.4 ~ 43.6	0.90	0.86 ~ 0.95
900	41.5	39.4 ~ 43.6	0.97	0.92 ~ 1.02
1450	40.5	38.5 ~ 42.5	1.20	1.14 ~ 1.26
1640	40.3	38.3 ~ 42.3	1.29	1.23 ~ 1.35
1750	40.1	38.1 ~ 42.1	1.37	1.30 ~ 1.44
1800	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
1900	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2000	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2300	39.5	37.5 ~ 41.5	1.67	1.59 ~ 1.75
2450	39.2	37.2 ~ 41.2	1.80	1.71 ~ 1.89
2600	39.0	37.1 ~ 41.0	1.96	1.86 ~ 2.06
3500	37.9	36.0 ~ 39.8	2.91	2.76 ~ 3.06
5200	36.0	34.2 ~ 37.8	4.66	4.43 ~ 4.89
5300	35.9	34.1 ~ 37.7	4.76	4.52 ~ 5.00
5500	35.6	33.8 ~ 37.4	4.96	4.71 ~ 5.21
5600	35.5	33.7 ~ 37.3	5.07	4.82 ~ 5.32
5800	35.3	33.5 ~ 37.1	5.27	5.01 ~ 5.53
For Body				
750	55.5	52.7 ~ 58.3	0.96	0.91 ~ 1.01
835	55.2	52.4 ~ 58.0	0.97	0.92 ~ 1.02
900	55.0	52.3 ~ 57.8	1.05	1.00 ~ 1.10
1450	54.0	51.3 ~ 56.7	1.30	1.24 ~ 1.37
1640	53.8	51.1 ~ 56.5	1.40	1.33 ~ 1.47
1750	53.4	50.7 ~ 56.1	1.49	1.42 ~ 1.56
1800	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
1900	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2000	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2300	52.9	50.3 ~ 55.5	1.81	1.72 ~ 1.90
2450	52.7	50.1 ~ 55.3	1.95	1.85 ~ 2.05
2600	52.5	49.9 ~ 55.1	2.16	2.05 ~ 2.27
3500	51.3	48.7 ~ 53.9	3.31	3.14 ~ 3.48
5200	49.0	46.6 ~ 51.5	5.30	5.04 ~ 5.57
5300	48.9	46.5 ~ 51.3	5.42	5.15 ~ 5.69
5500	48.6	46.2 ~ 51.0	5.65	5.37 ~ 5.93
5600	48.5	46.1 ~ 50.9	5.77	5.48 ~ 6.06
5800	48.2	45.8 ~ 50.6	6.00	5.70 ~ 6.30

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The following table gives the recipes for tissue simulating liquids.

Table-3.2 Recipes of Tissue Simulating Liquid

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

3.3 SAR System Verification

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

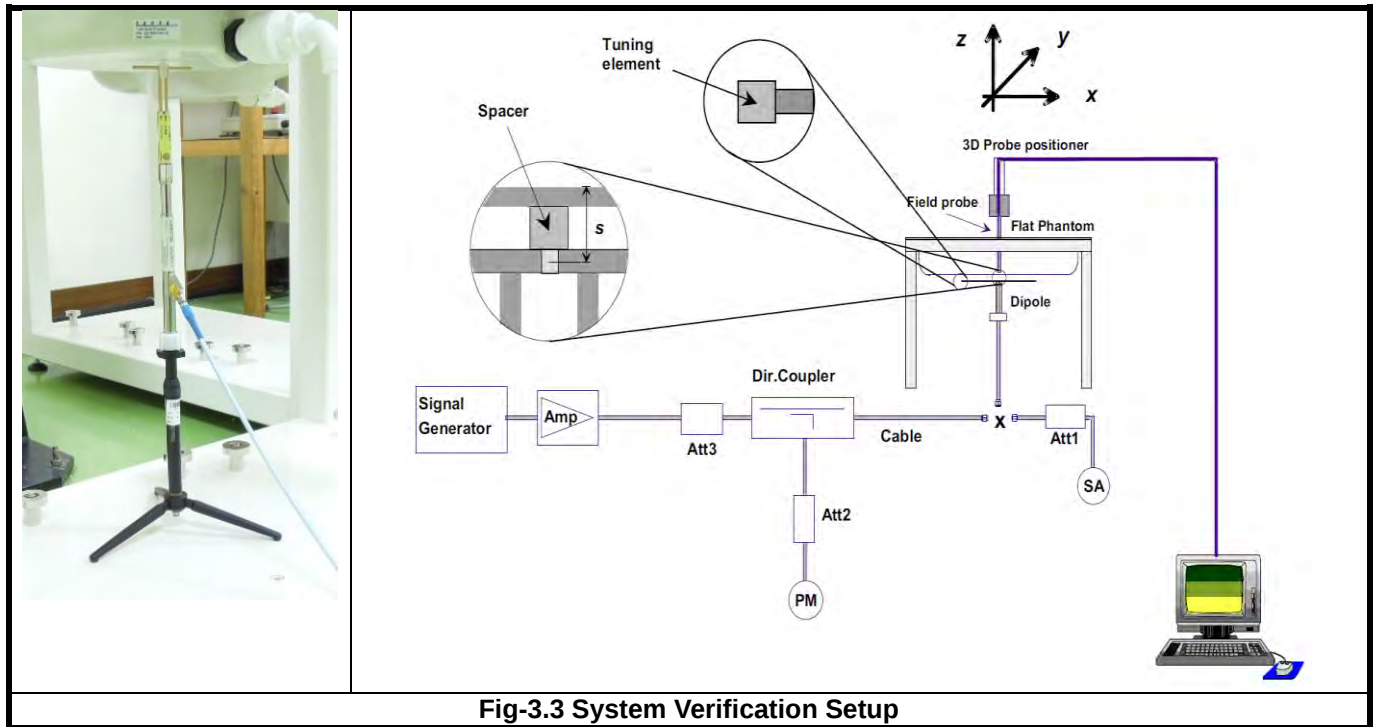


Fig-3.3 System Verification Setup

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

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

3.4 SAR Measurement Procedure

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

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

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

- Make EUT to transmit maximum output power
- Measure conducted output power through RF cable
- Place the EUT in the specific position of phantom
- Perform SAR testing steps on the DASY system
- Record the SAR value

3.4.1 Area & Zoom Scan Procedure

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

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

Note:

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

3.4.2 Volume Scan Procedure

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

3.4.3 Power Drift Monitoring

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

3.4.4 Spatial Peak SAR Evaluation

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

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

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

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

3.4.5 SAR Averaged Methods

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

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

4. SAR Measurement Evaluation

4.1 EUT Configuration and Setting

<Connections between EUT and System Simulator>

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

<Considerations Related to 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.

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Handsets with Release 6 HSUPA

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

Release 5 HSDPA Data Devices

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

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

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

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

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

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Release 6 HSUPA Data Devices

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

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Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	$\beta_{HS}^{(1)}$	β_{ec}	$\beta_{ed}^{(4)(5)}$	β_{ed} (SF)	β_{ed} (Codes)	CM ⁽²⁾ (dB)	MPR ⁽²⁾⁽⁶⁾ (dB)	AG ⁽⁵⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{HS} = 5/15 * \beta_c$.

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

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

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

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

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

DC-HSDPA SAR Guidance

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

<Considerations Related to 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 SCH₀ 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.

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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		
7			V	V	V	V
12	V	V	V	V		
13			V	V		
17			V	V		
25	V	V	V	V	V	V
38			V	V	V	V
40			V	V	V	V
41			V	V	V	V

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

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

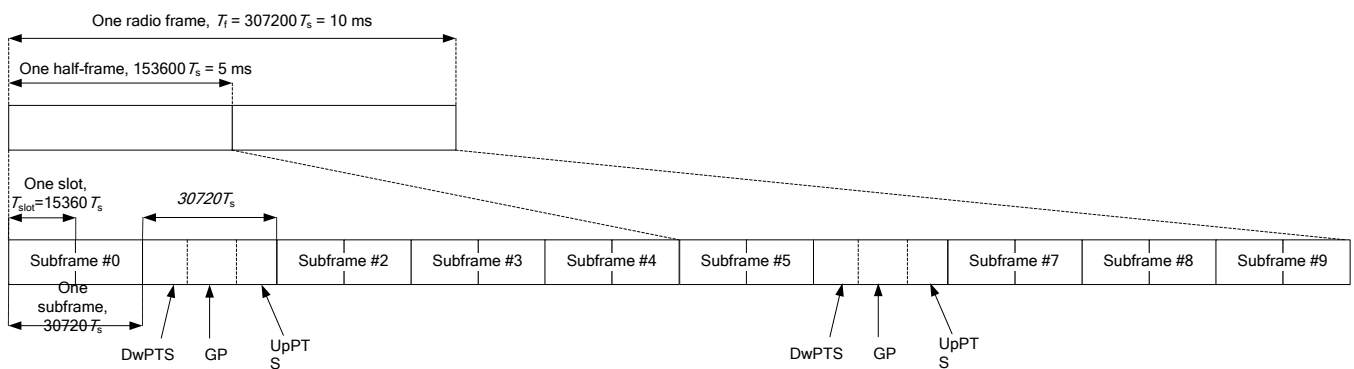
Note: MPR is according to the standard and implemented in the circuit (mandatory).

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

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

TDD-LTE Setup Configurations

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



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

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

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

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

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

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LTE Downlink Carrier Aggregation (CA) Setup Configurations

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

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

Downlink CA Configuration	Component Carriers in order of Increasing Carrier Frequency			Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
	Channel Bandwidths for Carrier-1 (MHz)	Channel Bandwidths for Carrier-2 (MHz)	Channel Bandwidths for Carrier-3 (MHz)		
CA_2A-2A	5, 10, 15, 20	5, 10, 15, 20		40	0
CA_4A-4A	5, 10, 15, 20	5, 10, 15, 20		40	0
	5, 10	5, 10		20	1
CA_7A-7A	5	15		40	0
	10	10, 15			
	15	15, 20			
	20	20			
	5, 10, 15, 20	5, 10, 15, 20		40	1
	5, 10, 15, 20	5, 10		30	2
CA_41A-41A	10, 15, 20	10, 15, 20		40	3
	10, 15, 20	10, 15, 20		40	0
	5, 10, 15, 20	5, 10, 15, 20		40	1

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

Downlink CA Configuration	LTE Bands	Channel Bandwidths for Carrier (MHz)	Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
CA_2A-4A	2	1.4, 3, 5, 10, 15, 20	40	0
	4	5, 10, 15, 20		
	2	5, 10	20	1
	4	5, 10		
	2	5, 10, 15, 20	40	2
	4	5, 10, 15, 20		
CA_2A-5A	2	5, 10, 15, 20	30	0
	5	5, 10		
	2	5, 10	20	1
	5	5, 10		
CA_2A-12A	2	5, 10, 15, 20	30	0
	12	5, 10		
	2	5, 10, 15, 20	30	1
	12	3, 5, 10		
	2	5, 10	20	2
	12	5, 10		
CA_2A-13A	2	5, 10, 15, 20	30	0
	13	10		
	2	5, 10	20	1
	13	10		
CA_2A-29A	2	5, 10	20	0
	29	3, 5, 10		
	2	5, 10	20	1
	29	5, 10		
	2	5, 10, 15, 20	30	2
	29	5, 10		
CA_4A-5A	4	5, 10	20	0
	5	5, 10		
	4	5, 10, 15, 20	30	1
	5	5, 10		
CA_4A-12A	4	1.4, 3, 5, 10	20	0
	12	5, 10		
	4	1.4, 3, 5, 10, 15, 20	30	1
	12	5, 10		
	4	5, 10, 15, 20	30	2
	12	3, 5, 10		
	4	5, 10	20	3
	12	5, 10		
	4	5, 10, 15, 20	30	4
	12	5, 10		
	4	5, 10, 15	20	5
	12	5		
CA_4A-13A	4	5, 10, 15, 20	30	0
	13	10		
	4	5, 10	20	1
	13	10		
CA_4A-29A	4	5, 10	20	0
	29	3, 5, 10		
	4	5, 10	20	1
	29	5, 10		
	4	5, 10, 15, 20	30	2
	29	5, 10		
CA_5A-7A	5	1.4, 3, 5, 10	30	0
	7	10, 15, 20		
	5	5, 10	30	1
	7	10, 15, 20		

<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.

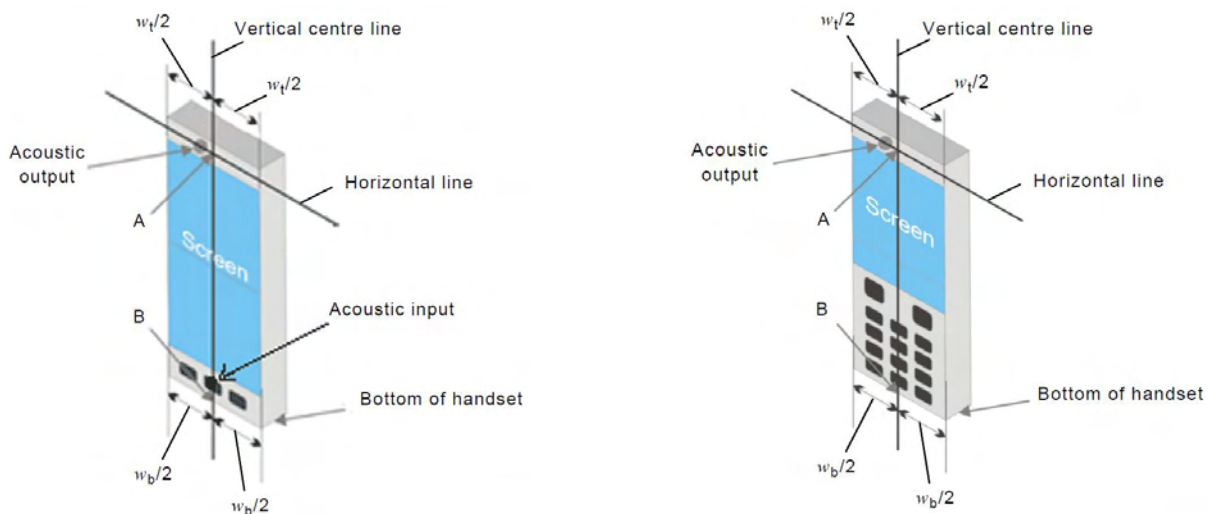


Fig-4.1 Illustration for Handset Vertical and Horizontal Reference Lines

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2. Cheek Position

- 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.
- 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).

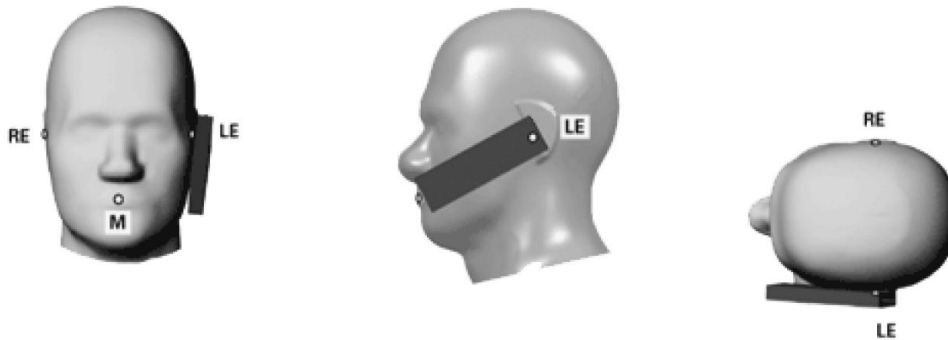


Fig-4.2 Illustration for Cheek Position

3. Tilted Position

- To position the device in the "cheek" position described above.
- 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).

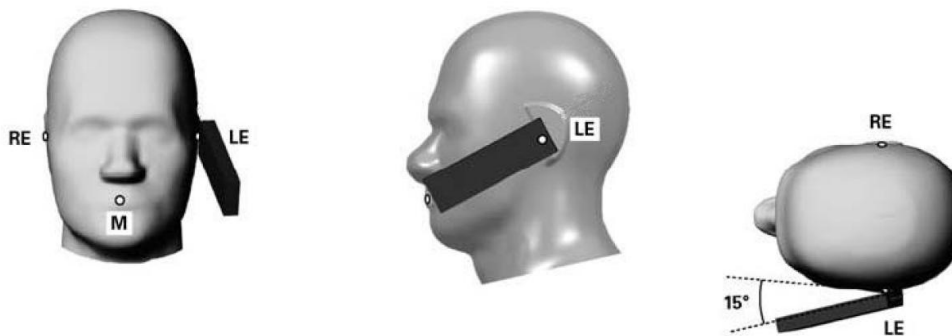


Fig-4.3 Illustration for Tilted Position

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 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 $> 1.2 \text{ W/kg}$, 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 $\leq 5 \text{ mm}$ to support compliance.

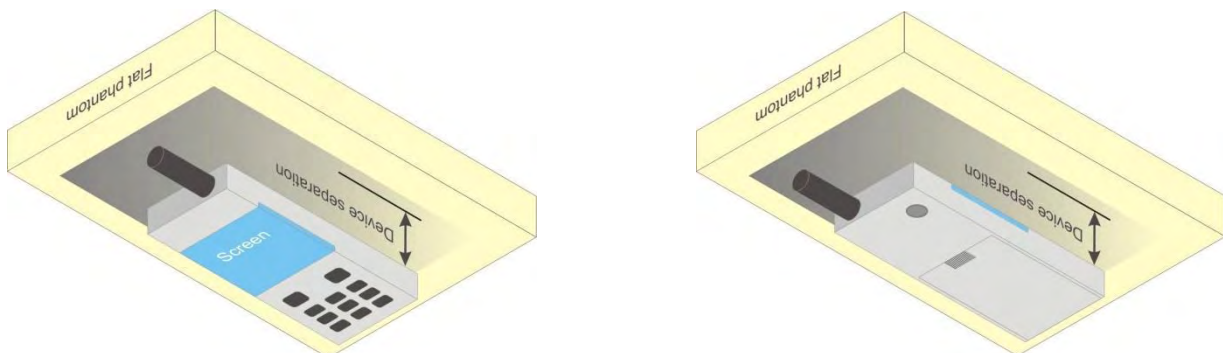
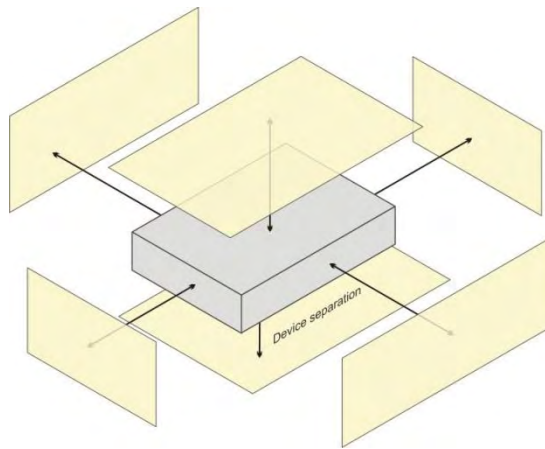


Fig-4.4 Illustration for Body Worn Position

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	V	V	V	V		V
WLAN / BT	V	V	V		V	

4.2.4 Product Specific (Phablet) Exposure Conditions

For smart phones with a display diagonal dimension > 15 cm or an overall diagonal dimension > 16 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance.

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g SAR > 1.2 W/kg. The normal tablet procedures in KDB 616217 are required when the over diagonal dimension of the device is > 20 cm. Hotspot mode SAR is not required when normal tablet procedures are applied. Extremity 10-g SAR is also not required for the front (top) surface of large form factor full size tablets. The more conservative tablet SAR results can be used to support the 10-g extremity SAR for phablet mode.
3. The simultaneous transmission operating configurations applicable to voice and data transmissions for both phone and mini-tablet modes must be taken into consideration separately for 1-g and 10-g SAR to determine the simultaneous transmission SAR test exclusion and measurement requirements for the relevant wireless modes and exposure conditions.

4.3 Tissue Verification

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

Test Date	Tissue Type	Frequency (MHz)	Liquid Temp. (°C)	Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Target Conductivity (σ)	Target Permittivity (ϵ_r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Dec. 07, 2017	Head	750	23.2	0.89	43.198	0.89	41.9	0.00	3.10
Dec. 06, 2017	Head	835	23.4	0.916	42.395	0.9	41.5	1.78	2.16
Dec. 06, 2017	Head	1750	23.5	1.326	40.157	1.37	40.1	-3.21	0.14
Dec. 24, 2017	Head	1750	23.2	1.325	39.349	1.37	40.1	-3.28	-1.87
Dec. 06, 2017	Head	1900	23.5	1.454	39.615	1.4	40	3.86	-0.96
Dec. 24, 2017	Head	1900	23.2	1.46	38.759	1.4	40	4.29	-3.10
Dec. 20, 2017	Head	2450	23.4	1.864	38.07	1.8	39.2	3.56	-2.88
Dec. 07, 2017	Head	2600	23.3	2.001	38.282	1.96	39	2.09	-1.84
Dec. 20, 2017	Head	5250	23.4	4.789	36.908	4.71	35.9	1.68	2.81
Dec. 20, 2017	Head	5600	23.3	5.096	36.498	5.07	35.5	0.51	2.81
Dec. 20, 2017	Head	5800	23.4	5.306	36.224	5.27	35.3	0.68	2.62
Dec. 08, 2017	Body	750	23.2	0.959	54.477	0.96	55.5	-0.10	-1.84
Dec. 06, 2017	Body	835	23.3	1.011	56.701	0.97	55.2	4.23	2.72
Dec. 07, 2017	Body	835	23.3	0.982	53.987	0.97	55.2	1.24	-2.20
Dec. 08, 2017	Body	835	23.3	0.979	53.608	0.97	55.2	0.93	-2.88
Dec. 05, 2017	Body	1750	23.2	1.438	51.207	1.49	53.4	-3.49	-4.11
Dec. 08, 2017	Body	1750	23.3	1.448	52.478	1.49	53.4	-2.82	-1.73
Dec. 18, 2017	Body	1750	23.2	1.439	51.495	1.49	53.4	-3.42	-3.57
Dec. 24, 2017	Body	1750	23.3	1.464	51.672	1.49	53.4	-1.74	-3.24
Dec. 05, 2017	Body	1900	23.2	1.53	51.202	1.52	53.3	0.66	-3.94
Dec. 08, 2017	Body	1900	23.3	1.584	52.046	1.52	53.3	4.21	-2.35
Dec. 18, 2017	Body	1900	23.3	1.578	51.14	1.52	53.3	3.82	-4.05
Dec. 21, 2017	Body	1900	23.3	1.565	50.894	1.52	53.3	2.96	-4.51
Dec. 24, 2017	Body	1900	23.3	1.585	51.424	1.52	53.3	4.28	-3.52
Dec. 21, 2017	Body	2450	23.4	2.016	51.542	1.95	52.7	3.38	-2.20
Dec. 22, 2017	Body	2450	23.4	2.014	51.096	1.95	52.7	3.28	-3.04
Dec. 07, 2017	Body	2600	23.2	2.194	50.437	2.16	52.5	1.57	-3.93
Dec. 20, 2017	Body	5250	23.3	5.541	46.822	5.36	48.9	3.38	-4.25
Dec. 20, 2017	Body	5600	23.3	5.935	46.347	5.77	48.5	2.86	-4.44
Dec. 20, 2017	Body	5800	23.4	6.216	45.997	6	48.2	3.60	-4.57

Test Date	Tissue Type	Frequency (MHz)	Liquid Temp. (°C)	Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Target Conductivity (σ)	Target Permittivity (ϵ_r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Dec. 22, 2017	Body	5250	23.3	5.541	46.822	5.36	48.9	3.38	-4.25
Dec. 22, 2017	Body	5600	23.3	5.935	46.347	5.77	48.5	2.86	-4.44

Note:

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within $\pm 5\%$ of the target values. Liquid temperature during the SAR testing must be within $\pm 2^\circ\text{C}$.

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4.4 System Validation

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

Test Date	Probe S/N	Calibration Point		Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Validation for CW			Validation for Modulation		
						Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR
Dec. 07, 2017	3650	Head	750	0.89	43.198	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 06, 2017	7346	Head	835	0.916	42.395	Pass	Pass	Pass	GMSK	Pass	N/A
Dec. 06, 2017	7346	Head	1750	1.326	40.157	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 24, 2017	3971	Head	1750	1.325	39.349	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 06, 2017	7346	Head	1900	1.454	39.615	Pass	Pass	Pass	GMSK	Pass	N/A
Dec. 24, 2017	3971	Head	1900	1.46	38.759	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 20, 2017	3650	Head	2450	1.864	38.07	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 07, 2017	3650	Head	2600	2.001	38.282	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 20, 2017	7346	Head	5250	4.789	36.908	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 20, 2017	7346	Head	5600	5.096	36.498	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 20, 2017	7346	Head	5800	5.306	36.224	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 08, 2017	3650	Body	750	0.959	54.477	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 06, 2017	7346	Body	835	1.011	56.701	Pass	Pass	Pass	GMSK	Pass	N/A
Dec. 07, 2017	3650	Body	835	0.982	53.987	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 08, 2017	3650	Body	835	0.979	53.608	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 05, 2017	3650	Body	1750	1.438	51.207	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 08, 2017	3650	Body	1750	1.448	52.478	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 18, 2017	7346	Body	1750	1.439	51.495	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 24, 2017	3971	Body	1750	1.464	51.672	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 05, 2017	3650	Body	1900	1.53	51.202	Pass	Pass	Pass	GMSK	Pass	N/A
Dec. 08, 2017	3650	Body	1900	1.584	52.046	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 18, 2017	7346	Body	1900	1.578	51.14	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 21, 2017	7346	Body	1900	1.565	50.894	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 24, 2017	3971	Body	1900	1.585	51.424	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 21, 2017	7346	Body	2450	2.016	51.542	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 22, 2017	3971	Body	2450	2.014	51.096	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 07, 2017	3650	Body	2600	2.194	50.437	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 20, 2017	7346	Body	5250	5.541	46.822	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 20, 2017	7346	Body	5600	5.935	46.347	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 20, 2017	7346	Body	5800	6.216	45.997	Pass	Pass	Pass	OFDM	N/A	Pass

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
Dec. 20, 2017	7346	Body	5250	5.541	46.822	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 20, 2017	7346	Body	5600	5.935	46.347	Pass	Pass	Pass	OFDM	N/A	Pass

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4.5 System Verification

The measuring result for system verification is tabulated as below.

Test Date	Mode	Frequency (MHz)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Dec. 07, 2017	Head	750	2.07	8.28	8.25	0.36	1013	3650	1431
Dec. 06, 2017	Head	835	2.38	9.52	9.41	1.17	4d121	7346	679
Dec. 06, 2017	Head	1750	8.91	35.64	36.20	-1.55	1055	7346	679
Dec. 24, 2017	Head	1750	8.58	34.32	36.20	-5.19	1055	3971	861
Dec. 06, 2017	Head	1900	10.10	40.40	40.20	0.50	5d036	7346	679
Dec. 24, 2017	Head	1900	9.98	39.92	40.20	-0.70	5d036	3971	861
Dec. 20, 2017	Head	2450	13.50	54.00	50.80	6.30	737	3650	1431
Dec. 07, 2017	Head	2600	14.70	58.80	56.90	3.34	1020	3650	1431
Dec. 20, 2017	Head	5300	8.18	81.80	78.60	4.07	1019	7346	679
Dec. 20, 2017	Head	5600	8.41	84.10	83.70	0.48	1019	7346	679
Dec. 20, 2017	Head	5800	8.37	83.70	79.70	5.02	1019	7346	679
Dec. 08, 2017	Body	750	2.17	8.68	8.72	-0.46	1013	3650	1431
Dec. 06, 2017	Body	835	2.49	9.96	9.61	3.64	4d121	7346	679
Dec. 07, 2017	Body	835	2.30	9.20	9.61	-4.27	4d121	3650	1431
Dec. 08, 2017	Body	835	2.38	9.52	9.61	-0.94	4d121	3650	1431
Dec. 05, 2017	Body	1750	8.82	35.28	37.10	-4.91	1055	3650	1277
Dec. 08, 2017	Body	1750	9.56	38.24	37.10	3.07	1055	3650	1431
Dec. 18, 2017	Body	1750	9.32	37.28	37.10	0.49	1055	7346	679
Dec. 24, 2017	Body	1750	9.47	37.88	37.10	2.10	1055	3971	861
Dec. 05, 2017	Body	1900	10.10	40.40	40.10	0.75	5d036	3650	1277
Dec. 08, 2017	Body	1900	10.10	40.40	40.10	0.75	5d036	3650	1431
Dec. 18, 2017	Body	1900	10.50	42.00	40.10	4.74	5d036	7346	679
Dec. 21, 2017	Body	1900	10.10	40.40	40.10	0.75	5d036	7346	679
Dec. 24, 2017	Body	1900	10.20	40.80	40.10	1.75	5d036	3971	861
Dec. 21, 2017	Body	2450	12.20	48.80	49.70	-1.81	737	7346	679
Dec. 22, 2017	Body	2450	12.60	50.40	49.70	1.41	737	3971	861
Dec. 07, 2017	Body	2600	13.70	54.80	54.30	0.92	1020	3650	1431
Dec. 20, 2017	Body	5250	7.69	76.90	76.50	0.52	1019	7346	679
Dec. 20, 2017	Body	5600	8.00	80.00	79.70	0.38	1019	7346	679
Dec. 20, 2017	Body	5800	7.64	76.40	76.90	-0.65	1019	7346	679

Test Date	Mode	Frequency (MHz)	1W Target SAR-10g (W/kg)	Measured SAR-10g (W/kg)	Normalized to 1W SAR-10g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Dec. 20, 2017	Body	5250	2.20	22.00	21.30	3.29	1019	7346	679
Dec. 20, 2017	Body	5600	2.24	22.40	22.30	0.45	1019	7346	679

Note:

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

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4.6 Maximum Output Power

4.6.1 Maximum Target Conducted Power

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

Mode	Maximum Burst-Averaged Output Power		Maximum Frame-Averaged Output Power	
	GSM850	GSM1900	GSM850	GSM1900
GSM (GMSK, 1Tx-slot)	34.4	31.1	25.4	22.1
GPRS (GMSK, 1Tx-slot)	34.4	31.1	25.4	22.1
GPRS (GMSK, 2Tx-slot)	30.5	28.5	24.5	22.5
GPRS (GMSK, 3Tx-slot)	28.5	26.5	24.2	22.2
GPRS (GMSK, 4Tx-slot)	27.5	25.0	24.5	22.0
EDGE (8PSK, 1Tx-slot)	28.4	28.6	19.4	19.6
EDGE (8PSK, 2Tx-slot)	25.0	25.0	19.0	19.0
EDGE (8PSK, 3Tx-slot)	23.0	23.0	18.7	18.7
EDGE (8PSK, 4Tx-slot)	21.5	22.0	18.5	19.0

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:

$$\text{Frame-averaged power} = 10 \times \log (\text{Burst-averaged power mW} \times \text{Slot used} / 8)$$

Mode	WCDMA Band II	WCDMA Band IV	WCDMA Band V
RMC 12.2K	25.1	25.1	24.9
HSDPA / HSUPA / DC-HSDPA	24.1	24.1	23.9

Mode	CDMA BC0	CDMA BC1	CDMA BC10
1xRTT / EVDO	25.4	24.3	25.4

Mode	LTE 2	LTE 4	LTE 5	LTE 7
Maximum Target Power	25.1	25.1	24.7	24.4

Mode	LTE 12	LTE 13	LTE 17	LTE 25
Maximum Target Power	24.9	24.9	24.9	24.0

Mode	LTE 26	LTE 38	LTE 41
Maximum Target Power	24.6	24.5	24.4

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Mode	2.4G WLAN	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
802.11b	19.5	N/A	N/A	N/A	N/A
802.11g	16.5	N/A	N/A	N/A	N/A
802.11a	N/A	16.5	16.5	16.5	16.5
802.11n HT20	16.5	16.5	16.5	16.5	16.5
802.11n HT40	N/A	16.5	16.5	16.5	16.5
802.11ac VHT80	N/A	16.5	16.5	16.5	16.5

Mode	2.4G Bluetooth
Bluetooth DH	7.0
Bluetooth LE	2.0

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)	33.23	33.28	33.27	30.07	30.56	30.89
GPRS (GMSK, 1Tx-slot)	33.16	33.21	33.20	29.62	30.11	30.44
GPRS (GMSK, 2Tx-slot)	30.31	30.36	30.35	27.50	27.99	28.32
GPRS (GMSK, 3Tx-slot)	28.28	28.33	28.32	25.33	25.82	26.15
GPRS (GMSK, 4Tx-slot)	26.97	27.02	27.01	24.06	24.55	24.88
EDGE (8PSK, 1Tx-slot)	27.66	27.71	27.70	26.90	27.39	27.72
EDGE (8PSK, 2Tx-slot)	24.56	24.61	24.60	23.88	24.37	24.70
EDGE (8PSK, 3Tx-slot)	22.73	22.78	22.77	22.03	22.52	22.85
EDGE (8PSK, 4Tx-slot)	21.43	21.48	21.47	20.76	21.25	21.58

Band	WCDMA Band II			WCDMA Band IV			WCDMA Band V			3GPP MPR (dB)
Channel	9262	9400	9538	1312	1413	1513	4132	4182	4233	
Frequency (MHz)	1852.4	1880.0	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6	
RMC 12.2K	24.01	24.15	24.18	24.69	24.62	24.63	24.04	24.16	24.45	-
HSDPA Subtest-1	23.00	23.14	23.17	23.64	23.57	23.58	23.00	23.12	23.41	0
HSDPA Subtest-2	23.05	23.19	23.22	23.70	23.63	23.64	23.09	23.21	23.50	0
HSDPA Subtest-3	22.52	22.66	22.69	23.21	23.14	23.15	22.60	22.72	23.01	0.5
HSDPA Subtest-4	22.53	22.67	22.70	23.18	23.11	23.12	22.61	22.73	23.02	0.5
DC-HSDPA Subtest-1	22.91	23.05	23.10	23.58	23.52	23.52	22.91	23.04	23.33	0
DC-HSDPA Subtest-2	22.30	23.11	23.13	23.64	23.58	23.58	23.02	23.13	23.42	0
DC-HSDPA Subtest-3	22.41	23.59	22.60	23.11	23.06	23.10	22.52	22.67	22.93	0.5
DC-HSDPA Subtest-4	22.44	22.58	22.61	23.12	23.05	23.06	22.53	22.68	22.94	0.5
HSUPA Subtest-1	23.01	23.15	23.18	23.69	23.62	23.63	23.06	23.18	23.47	0
HSUPA Subtest-2	21.05	21.19	21.22	21.69	21.62	21.63	21.06	21.18	21.47	2
HSUPA Subtest-3	22.13	22.27	22.30	22.70	22.63	22.64	22.05	22.17	22.46	1
HSUPA Subtest-4	21.02	21.16	21.19	21.72	21.65	21.66	21.07	21.19	21.48	2
HSUPA Subtest-5	23.06	23.20	23.23	23.77	23.70	23.71	23.09	23.21	23.50	0

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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	24.12	24.18	24.30	23.83	23.82	23.88
1xRTT RC3+SO55	24.11	24.17	24.29	23.90	23.78	23.84
1xRTT RC3+SO32 (FCH)	24.09	24.15	24.29	23.87	23.79	23.85
1xRTT RC3+SO32 (SCH)	24.10	24.15	24.29	23.88	23.77	23.83
1xEVDO Rev.0 RTAP 153.6	24.32	24.39	24.40	23.89	23.78	23.84
1xEVDO Rev.A RETAP 4096	24.11	24.21	24.19	23.73	23.62	23.68

Band	CDMA BC10		
Channel	476	580	684
Frequency (MHz)	817.9	820.5	823.1
1xRTT RC1+SO55	24.16	24.13	24.21
1xRTT RC3+SO55	24.18	24.15	24.23
1xRTT RC3+SO32 (FCH)	24.16	24.13	24.21
1xRTT RC3+SO32 (SCH)	24.17	24.14	24.22
1xEVDO Rev.0 RTAP 153.6	24.26	24.34	24.32
1xEVDO Rev.A RETAP 4096	24.16	24.14	24.22

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LTE Band 2															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18700	18900	19100				Channel		18675	18900	19125	
		Frequency (MHz)		1860.0	1880.0	1900.0				Frequency (MHz)		1857.5	1880.0	1902.5	
20M	QPSK	1	0	24.77	24.90	24.81	0	15M	QPSK	1	0	24.70	24.89	24.74	0
		1	50	24.72	24.73	24.42	0			1	37	24.65	24.66	24.35	0
		1	99	24.51	24.70	24.57	0			1	74	24.44	24.63	24.50	0
		50	0	23.80	23.82	23.76	1			36	0	23.73	23.75	23.69	1
		50	25	23.75	23.78	23.70	1			36	19	23.68	23.71	23.63	1
		50	50	23.51	23.81	23.59	1			36	39	23.44	23.74	23.52	1
		100	0	23.73	23.79	23.77	1			75	0	23.66	23.72	23.70	1
		1	0	23.87	23.88	23.90	1		16QAM	1	0	23.80	23.90	23.84	1
	16QAM	1	50	23.89	23.90	23.82	1			1	37	23.84	23.84	23.75	1
		1	99	23.48	23.85	23.86	1			1	74	23.41	23.78	23.79	1
		50	0	22.74	22.83	22.68	2			36	0	22.67	22.76	22.61	2
		50	25	22.67	22.81	22.58	2			36	19	22.60	22.74	22.51	2
		50	50	22.69	22.72	22.60	2			36	39	22.62	22.65	22.53	2
		100	0	22.57	22.61	22.63	2			75	0	22.50	22.54	22.56	2
		1	0	22.88	22.89	22.90	2		64QAM	1	0	22.81	22.90	22.85	2
	64QAM	1	50	22.90	22.90	22.83	2			1	37	22.85	22.85	22.76	2
		1	99	22.49	22.86	22.87	2			1	74	22.42	22.79	22.80	2
		50	0	21.75	21.84	21.69	3			36	0	21.68	21.77	21.62	3
		50	25	21.68	21.82	21.59	3			36	19	21.61	21.75	21.52	3
		50	50	21.70	21.73	21.61	3			36	39	21.63	21.66	21.54	3
		100	0	21.58	21.62	21.64	3			75	0	21.51	21.55	21.57	3
10M	QPSK	1	0	24.64	24.85	24.68	0	5M	QPSK	1	0	24.56	24.77	24.60	0
		1	24	24.59	24.60	24.29	0			1	12	24.51	24.52	24.21	0
		1	49	24.38	24.57	24.44	0			1	24	24.30	24.49	24.36	0
		25	0	23.67	23.69	23.63	1			12	0	23.59	23.61	23.55	1
		25	12	23.62	23.65	23.57	1			12	6	23.54	23.57	23.49	1
		25	25	23.38	23.68	23.46	1			12	13	23.30	23.60	23.38	1
		50	0	23.60	23.66	23.64	1			25	0	23.52	23.58	23.56	1
		1	0	23.74	23.85	23.78	1		16QAM	1	0	23.66	23.77	23.70	1
	16QAM	1	24	23.78	23.78	23.69	1			1	12	23.70	23.70	23.61	1
		1	49	23.35	23.72	23.73	1			1	24	23.27	23.64	23.65	1
		25	0	22.61	22.70	22.55	2			12	0	22.53	22.62	22.47	2
		25	12	22.54	22.68	22.45	2			12	6	22.46	22.60	22.37	2
		25	25	22.56	22.59	22.47	2			12	13	22.48	22.51	22.39	2
		50	0	22.44	22.48	22.50	2			25	0	22.36	22.40	22.42	2
		1	0	22.75	22.86	22.79	2		64QAM	1	0	22.67	22.78	22.71	2
	64QAM	1	24	22.79	22.79	22.70	2			1	12	22.71	22.71	22.62	2
		1	49	22.36	22.73	22.74	2			1	24	22.28	22.65	22.66	2
		25	0	21.62	21.71	21.56	3			12	0	21.54	21.63	21.48	3
		25	12	21.55	21.69	21.46	3			12	6	21.47	21.61	21.38	3
		25	25	21.57	21.60	21.48	3			12	13	21.49	21.52	21.40	3
		50	0	21.45	21.49	21.51	3			25	0	21.37	21.41	21.43	3
3M	QPSK	1	0	24.49	24.70	24.53	0	1.4M	QPSK	1	0	24.41	24.62	24.45	0
		1	7	24.44	24.45	24.14	0			1	2	24.36	24.37	24.06	0
		1	14	24.23	24.42	24.29	0			1	5	24.15	24.34	24.21	0
		8	0	23.52	23.54	23.48	1			3	0	23.44	23.46	23.40	0
		8	3	23.47	23.50	23.42	1			3	1	23.39	23.42	23.34	0
		8	7	23.23	23.53	23.31	1			3	3	23.15	23.45	23.23	0
		15	0	23.45	23.51	23.49	1			6	0	23.37	23.43	23.41	1
		1	0	23.59	23.70	23.63	1		16QAM	1	0	23.51	23.62	23.55	1
	16QAM	1	7	23.63	23.63	23.54	1			1	2	23.55	23.55	23.46	1
		1	14	23.20	23.57	23.58	1			1	5	23.12	23.49	23.50	1
		8	0	22.46	22.55	22.40	2			3	0	22.38	22.47	22.32	1
		8	3	22.39	22.53	22.30	2			3	1	22.31	22.45	22.22	1
		8	7	22.41	22.44	22.32	2			3	3	22.33	22.36	22.24	1
		15	0	22.29	22.33	22.35	2			6	0	22.21	22.25	22.27	2
		1	0	22.60	22.71	22.64	2		64QAM	1	0	22.52	22.63	22.56	2
	64QAM	1	7	22.64	22.64	22.55	2			1	2	22.56	22.56	22.47	2
		1	14	22.21	22.58	22.59	2			1	5	22.13	22.50	22.51	2
		8	0	21.47	21.56	21.41	3			3	0	21.39	21.48	21.33	2
		8	3	21.40	21.54	21.31	3			3	1	21.32	21.46	21.23	2
		8	7	21.42	21.45	21.33	3			3	3	21.34	21.37	21.25	2
		15	0	21.30	21.34	21.36	3			6	0	21.22	21.26	21.28	3

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LTE Band 4															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20050	20175	20300				Channel		20025	20175	20325	
		Frequency (MHz)		1720.0	1732.5	1745.0				Frequency (MHz)		1717.5	1732.5	1747.5	
20M	QPSK	1	0	24.90	24.71	24.73	0	15M	QPSK	1	0	24.85	24.64	24.66	0
		1	50	24.76	24.69	24.61	0			1	37	24.69	24.62	24.54	0
		1	99	24.89	24.51	24.46	0			1	74	24.82	24.44	24.39	0
		50	0	23.85	23.79	23.77	1			36	0	23.78	23.72	23.70	1
		50	25	23.76	23.65	23.73	1			36	19	23.69	23.58	23.66	1
		50	50	23.72	23.66	23.74	1			36	39	23.65	23.59	23.67	1
	16QAM	100	0	23.86	23.63	23.73	1			75	0	23.79	23.56	23.66	1
		1	0	23.87	23.78	23.81	1		16QAM	1	0	23.90	23.71	23.74	1
		1	50	23.54	23.86	23.86	1			1	37	23.47	23.79	23.79	1
		1	99	23.83	23.77	23.68	1			1	74	23.76	23.70	23.61	1
		50	0	22.86	22.74	22.88	2			36	0	22.79	22.67	22.81	2
		50	25	22.79	22.70	22.79	2			36	19	22.72	22.63	22.72	2
	64QAM	50	50	22.67	22.58	22.73	2			36	39	22.60	22.51	22.66	2
		100	0	22.68	22.69	22.76	2			75	0	22.61	22.62	22.69	2
		1	0	22.90	22.80	22.83	2		64QAM	1	0	22.89	22.73	22.76	2
		1	50	22.56	22.88	22.88	2			1	37	22.49	22.81	22.81	2
		1	99	22.85	22.79	22.70	2			1	74	22.78	22.72	22.63	2
		50	0	21.88	21.76	21.90	3			36	0	21.81	21.69	21.83	3
		50	25	21.81	21.72	21.81	3			36	19	21.74	21.65	21.74	3
		50	50	21.69	21.60	21.75	3			36	39	21.62	21.53	21.68	3
		100	0	21.70	21.71	21.78	3			75	0	21.63	21.64	21.71	3
10M	QPSK	1	0	24.76	24.55	24.57	0	5M	QPSK	1	0	24.70	24.49	24.51	0
		1	24	24.60	24.53	24.45	0			1	12	24.54	24.47	24.39	0
		1	49	24.73	24.35	24.30	0			1	24	24.67	24.29	24.24	0
		25	0	23.69	23.63	23.61	1			12	0	23.63	23.57	23.55	1
		25	12	23.60	23.49	23.57	1			12	6	23.54	23.43	23.51	1
		25	25	23.56	23.50	23.58	1			12	13	23.50	23.44	23.52	1
	16QAM	50	0	23.70	23.47	23.57	1			25	0	23.64	23.41	23.51	1
		1	0	23.81	23.62	23.65	1		16QAM	1	0	23.75	23.56	23.59	1
		1	24	23.38	23.70	23.70	1			1	12	23.32	23.64	23.64	1
		1	49	23.67	23.61	23.52	1			1	24	23.61	23.55	23.46	1
		25	0	22.70	22.58	22.72	2			12	0	22.64	22.52	22.66	2
		25	12	22.63	22.54	22.63	2			12	6	22.57	22.48	22.57	2
	64QAM	25	25	22.51	22.42	22.57	2			12	13	22.45	22.36	22.51	2
		50	0	22.52	22.53	22.60	2			25	0	22.46	22.47	22.54	2
		1	0	22.83	22.64	22.67	2		64QAM	1	0	22.77	22.58	22.61	2
		1	24	22.40	22.72	22.72	2			1	12	22.34	22.66	22.66	2
		1	49	22.69	22.63	22.54	2			1	24	22.63	22.57	22.48	2
		25	0	21.72	21.60	21.74	3			12	0	21.66	21.54	21.68	3
3M	QPSK	25	12	21.65	21.56	21.65	3			12	6	21.59	21.50	21.59	3
		25	25	21.53	21.44	21.59	3			12	13	21.47	21.38	21.53	3
		50	0	21.54	21.55	21.62	3			25	0	21.48	21.49	21.56	3
		1	0	24.62	24.41	24.43	0	1.4M	QPSK	1	0	24.55	24.34	24.36	0
		1	7	24.46	24.39	24.31	0			1	2	24.39	24.32	24.24	0
		1	14	24.59	24.21	24.16	0			1	5	24.52	24.14	24.09	0
		8	0	23.55	23.49	23.47	1			3	0	23.48	23.42	23.40	0
		8	3	23.46	23.35	23.43	1			3	1	23.39	23.28	23.36	0
		8	7	23.42	23.36	23.44	1			3	3	23.35	23.29	23.37	0
	16QAM	15	0	23.56	23.33	23.43	1			6	0	23.49	23.26	23.36	1
		1	0	23.67	23.48	23.51	1		16QAM	1	0	23.60	23.41	23.44	1
		1	7	23.24	23.56	23.56	1			1	2	23.17	23.49	23.49	1
		1	14	23.53	23.47	23.38	1			1	5	23.46	23.40	23.31	1
		8	0	22.56	22.44	22.58	2			3	0	22.49	22.37	22.51	1
		8	3	22.49	22.40	22.49	2			3	1	22.42	22.33	22.42	1
	64QAM	8	7	22.37	22.28	22.43	2			3	3	22.30	22.21	22.36	1
		15	0	22.38	22.39	22.46	2			6	0	22.31	22.32	22.39	2
		1	0	22.69	22.50	22.53	2		64QAM	1	0	22.62	22.43	22.46	2
		1	7	22.26	22.58	22.58	2			1	2	22.19	22.51	22.51	2
		1	14	22.55	22.49	22.40	2			1	5	22.48	22.42	22.33	2
		8	0	21.58	21.46	21.60	3			3	0	21.51	21.39	21.53	2
		8	3	21.51	21.42	21.51	3			3	1	21.44	21.35	21.44	2
		8	7	21.39	21.30	21.45	3			3	3	21.32	21.23	21.38	2
		15	0	21.40	21.41	21.48	3			6	0	21.33	21.34	21.41	3

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LTE Band 5															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20450	20525	20600				Channel		20425	20525	20625	
		Frequency (MHz)		829.0	836.5	844.0				Frequency (MHz)		826.5	836.5	846.5	
10M	QPSK	1	0	23.73	23.88	23.99	0	5M	QPSK	1	0	23.68	23.83	23.94	0
		1	24	23.71	23.76	23.95	0			1	12	23.66	23.71	23.90	0
		1	49	23.59	23.89	23.83	0			1	24	23.54	23.84	23.78	0
		25	0	22.77	22.95	23.00	1			12	0	22.72	22.90	22.95	1
		25	12	22.79	22.87	22.98	1			12	6	22.74	22.82	22.93	1
		25	25	22.90	22.92	22.95	1			12	13	22.85	22.87	22.90	1
		50	0	22.77	22.90	22.96	1			25	0	22.72	22.85	22.91	1
		50	24	22.86	22.91	22.98	1			25	12	22.81	22.86	22.93	1
	16QAM	1	0	22.86	22.91	22.98	1		16QAM	1	0	22.81	22.86	22.93	1
		1	24	22.85	22.87	22.76	1			1	12	22.80	22.82	22.71	1
		1	49	22.97	22.95	22.85	1			1	24	22.92	22.90	22.80	1
		25	0	21.90	21.88	21.93	2			12	0	21.85	21.83	21.88	2
		25	12	21.87	21.89	21.96	2			12	6	21.82	21.84	21.91	2
		25	25	21.79	21.84	21.83	2			12	13	21.74	21.79	21.78	2
		50	0	21.80	21.84	21.92	2			25	0	21.75	21.79	21.87	2
		50	24	21.86	21.88	21.77	2		64QAM	1	0	21.82	21.87	21.94	2
	64QAM	1	24	21.86	21.88	21.77	2			1	12	21.81	21.83	21.72	2
		1	49	21.98	21.96	21.86	2			1	24	21.93	21.91	21.81	2
		25	0	20.91	20.89	20.94	3			12	0	20.86	20.84	20.89	3
		25	12	20.88	20.90	20.97	3			12	6	20.83	20.85	20.92	3
		25	25	20.80	20.85	20.84	3			12	13	20.75	20.80	20.79	3
		50	0	20.81	20.85	20.93	3			25	0	20.76	20.80	20.88	3
		50	24	20.81	20.85	20.93	3			25	12	20.76	20.80	20.88	3
3M	QPSK	1	0	20415	20525	20635	3GPP MPR (dB)	BW	MCS Index	1	0	20407	20525	20643	3GPP MPR (dB)
		1	7	825.5	836.5	847.5				1	2	824.7	836.5	848.3	
		1	14	23.61	23.76	23.87				1	5	23.53	23.68	23.79	
		8	0	23.59	23.64	23.83	0		QPSK	3	0	23.51	23.56	23.75	0
		8	3	23.47	23.77	23.71	0			3	1	23.39	23.69	23.63	0
		8	7	22.65	22.83	22.88	1			3	3	22.77	22.75	22.80	0
		15	0	22.67	22.75	22.86	1			3	3	22.79	22.87	22.78	0
		15	7	22.78	22.80	22.83	1			6	0	22.80	22.72	22.75	0
		15	14	22.65	22.78	22.84	1			6	3	22.57	22.70	22.76	1
	16QAM	1	0	22.74	22.79	22.86	1		16QAM	1	0	22.66	22.71	22.78	1
		1	7	22.73	22.75	22.64	1			1	2	22.65	22.67	22.56	1
		1	14	22.85	22.83	22.73	1			1	5	22.77	22.75	22.65	1
		8	0	21.78	21.76	21.81	2			3	0	21.80	21.78	21.73	1
		8	3	21.75	21.77	21.84	2			3	1	21.77	21.79	21.76	1
		8	7	21.67	21.72	21.71	2			3	3	21.71	21.74	21.73	1
		15	0	21.68	21.72	21.80	2			6	0	21.60	21.64	21.72	2
		15	7	21.75	21.80	21.87	2		64QAM	1	0	21.67	21.72	21.79	2
	64QAM	1	7	21.74	21.76	21.65	2			1	2	21.66	21.68	21.57	2
		1	14	21.86	21.84	21.74	2			1	5	21.78	21.76	21.66	2
		8	0	20.79	20.77	20.82	3			3	0	20.71	20.79	20.74	2
		8	3	20.76	20.78	20.85	3			3	1	20.78	20.80	20.77	2
		8	7	20.68	20.73	20.72	3			3	3	20.71	20.75	20.74	2
		15	0	20.69	20.73	20.81	3			6	0	20.61	20.65	20.73	3
		15	7	20.69	20.73	20.81	3			6	3	20.61	20.65	20.73	3

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LTE Band 7															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20850	21100	21350				Channel		20825	21100	21375	
		Frequency (MHz)		2510.0	2535.0	2560.0				Frequency (MHz)		2507.5	2535.0	2562.5	
20M	QPSK	1	0	23.52	23.75	23.59	0	15M	QPSK	1	0	23.45	23.68	23.52	0
		1	50	23.61	23.56	23.17	0			1	37	23.54	23.49	23.10	0
		1	99	23.63	23.64	23.12	0			1	74	23.56	23.57	23.05	0
		50	0	22.71	22.91	22.75	1			36	0	22.64	22.84	22.68	1
		50	25	22.79	22.90	22.90	1			36	19	22.72	22.83	22.83	1
		50	50	22.88	22.84	22.75	1			36	39	22.81	22.77	22.68	1
		100	0	22.80	22.82	22.73	1			75	0	22.73	22.75	22.66	1
	16QAM	1	0	22.82	22.94	22.63	1		16QAM	1	0	22.75	22.87	22.56	1
		1	50	22.89	22.91	22.44	1			1	37	22.82	22.84	22.37	1
		1	99	22.92	22.92	22.31	1			1	74	22.85	22.85	22.24	1
		50	0	21.67	21.77	21.65	2			36	0	21.60	21.70	21.58	2
		50	25	22.00	21.93	22.00	2			36	19	21.93	21.86	21.93	2
		50	50	21.85	21.85	21.89	2			36	39	21.78	21.78	21.82	2
		100	0	21.67	21.85	21.90	2			75	0	21.60	21.78	21.83	2
	64QAM	1	0	21.85	21.97	21.66	2		64QAM	1	0	21.78	21.90	21.59	2
		1	50	21.92	21.94	21.47	2			1	37	21.85	21.87	21.40	2
		1	99	21.95	21.95	21.34	2			1	74	21.88	21.88	21.27	2
		50	0	20.70	20.80	20.68	3			36	0	20.63	20.73	20.61	3
		50	25	20.93	20.96	20.91	3			36	19	20.86	20.89	20.84	3
		50	50	20.88	20.88	20.92	3			36	39	20.81	20.81	20.85	3
		100	0	20.70	20.88	20.93	3			75	0	20.63	20.81	20.86	3
10M	QPSK	1	0	23.39	23.62	23.46	0	5M	QPSK	1	0	23.31	23.54	23.38	0
		1	24	23.48	23.43	23.04	0			1	12	23.40	23.35	22.96	0
		1	49	23.50	23.51	22.99	0			1	24	23.42	23.43	22.91	0
		25	0	22.58	22.78	22.62	1			12	0	22.50	22.70	22.54	1
		25	12	22.66	22.77	22.77	1			12	6	22.58	22.69	22.69	1
		25	25	22.75	22.71	22.62	1			12	13	22.67	22.63	22.54	1
		50	0	22.67	22.69	22.60	1			25	0	22.59	22.61	22.52	1
	16QAM	1	0	22.69	22.81	22.50	1		16QAM	1	0	22.61	22.73	22.42	1
		1	24	22.76	22.78	22.31	1			1	12	22.68	22.70	22.23	1
		1	49	22.79	22.79	22.18	1			1	24	22.71	22.71	22.10	1
		25	0	21.54	21.64	21.52	2			12	0	21.46	21.56	21.44	2
		25	12	21.87	21.80	21.87	2			12	6	21.79	21.72	21.79	2
		25	25	21.72	21.72	21.76	2			12	13	21.64	21.64	21.68	2
		50	0	21.54	21.72	21.77	2			25	0	21.46	21.64	21.69	2
	64QAM	1	0	21.72	21.84	21.53	2		64QAM	1	0	21.64	21.76	21.45	2
		1	24	21.79	21.81	21.34	2			1	12	21.71	21.73	21.26	2
		1	49	21.82	21.82	21.21	2			1	24	21.74	21.74	21.13	2
		25	0	20.57	20.67	20.55	3			12	0	20.49	20.59	20.47	3
		25	12	20.80	20.83	20.78	3			12	6	20.72	20.75	20.70	3
		25	25	20.75	20.75	20.79	3			12	13	20.67	20.67	20.71	3
		50	0	20.57	20.75	20.80	3			25	0	20.49	20.67	20.72	3

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LTE Band 12															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23060	23095	23130				Channel		23035	23095	23155	
		Frequency (MHz)		704.0	707.5	711.0				Frequency (MHz)		701.5	707.5	713.5	
10M	QPSK	1	0	23.81	23.63	23.67	0	5M	QPSK	1	0	23.72	23.54	23.58	0
		1	24	23.80	23.73	23.62	0			1	12	23.71	23.64	23.53	0
		1	49	23.77	23.71	23.70	0			1	24	23.68	23.62	23.61	0
		25	0	22.88	22.74	22.87	1			12	0	22.79	22.65	22.78	1
		25	12	22.93	22.83	22.75	1			12	6	22.84	22.74	22.66	1
		25	25	22.90	22.79	22.89	1			12	13	22.81	22.70	22.80	1
	16QAM	50	0	22.91	22.85	22.63	1			25	0	22.82	22.76	22.54	1
		1	0	22.69	23.17	22.90	1		16QAM	1	0	22.60	23.08	22.81	1
		1	24	22.95	22.99	23.23	1			1	12	22.86	22.90	23.14	1
		1	49	22.82	22.98	23.29	1			1	24	22.73	22.89	23.20	1
		25	0	21.75	21.80	21.84	2			12	0	21.66	21.71	21.75	2
		25	12	21.81	21.84	21.79	2			12	6	21.72	21.75	21.70	2
	64QAM	25	25	21.90	21.80	21.91	2			12	13	21.81	21.71	21.82	2
		50	0	21.86	21.74	21.88	2			25	0	21.77	21.65	21.79	2
		1	0	21.95	22.43	22.16	2		64QAM	1	0	21.86	22.34	22.07	2
		1	24	22.21	22.25	22.49	2			1	12	22.12	22.16	22.40	2
		1	49	22.08	22.24	22.55	2			1	24	21.99	22.15	22.46	2
		25	0	21.01	21.06	21.10	3			12	0	20.92	20.97	21.01	3
		25	12	21.07	21.10	21.05	3			12	6	20.98	21.01	20.96	3
		25	25	21.16	21.06	21.17	3			12	13	21.07	20.97	21.08	3
		50	0	21.12	21.00	21.14	3			25	0	21.03	20.91	21.05	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23025	23095	23165				Channel		23017	23095	23173	
		Frequency (MHz)		700.5	707.5	714.5				Frequency (MHz)		699.7	707.5	715.3	
3M	QPSK	1	0	23.66	23.48	23.52	0	1.4M	QPSK	1	0	23.61	23.43	23.47	0
		1	7	23.65	23.58	23.47	0			1	2	23.60	23.53	23.42	0
		1	14	23.62	23.56	23.55	0			1	5	23.57	23.51	23.50	0
		8	0	22.73	22.59	22.72	1			3	0	23.15	23.01	23.14	0
		8	3	22.78	22.68	22.60	1			3	1	23.20	23.10	23.02	0
		8	7	22.75	22.64	22.74	1			3	3	23.17	23.06	23.16	0
	16QAM	15	0	22.76	22.70	22.48	1			6	0	22.71	22.65	22.43	1
		1	0	22.54	23.02	22.75	1		16QAM	1	0	22.49	22.97	22.70	1
		1	7	22.80	22.84	23.08	1			1	2	22.75	22.79	23.03	1
		1	14	22.67	22.83	23.14	1			1	5	22.62	22.78	23.09	1
		8	0	21.60	21.65	21.69	2			3	0	22.02	22.07	22.11	1
		8	3	21.66	21.69	21.64	2			3	1	22.08	22.11	22.06	1
	64QAM	8	7	21.75	21.65	21.76	2			3	3	22.17	22.07	22.18	1
		15	0	21.71	21.59	21.73	2			6	0	21.66	21.54	21.68	2
		1	0	21.80	22.28	22.01	2		64QAM	1	0	21.75	22.23	21.96	2
		1	7	22.06	22.10	22.34	2			1	2	22.01	22.05	22.29	2
		1	14	21.93	22.09	22.40	2			1	5	21.88	22.04	22.35	2
		8	0	20.86	20.91	20.95	3			3	0	21.01	21.06	21.10	2
		8	3	20.92	20.95	20.90	3			3	1	21.07	21.10	21.05	2
		8	7	21.01	20.91	21.02	3			3	3	21.16	21.06	21.17	2
		15	0	20.97	20.85	20.99	3			6	0	20.92	20.80	20.94	3

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LTE Band 13															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel			23230					Channel		23205	23230	23225	
		Frequency (MHz)			782.0					Frequency (MHz)		779.5	782.0	784.5	
10M	QPSK	1	0		23.95		0	5M	QPSK	1	0	23.62	23.56	23.64	0
		1	24		23.65		0			1	12	23.68	23.64	23.85	0
		1	49		23.67		0			1	24	23.82	23.60	23.91	0
		25	0		22.62		1			12	0	22.70	22.79	22.66	1
		25	12		22.71		1			12	6	22.76	22.76	22.82	1
		25	25		22.85		1			12	13	22.73	22.62	22.81	1
		50	0		22.69		1			25	0	22.69	22.65	22.79	1
		16QAM	1	0		22.99				1	16QAM	1	0	23.00	22.86
	1		24		22.93		1		1	12		22.94	22.92	22.77	1
	1		49		22.89		1		1	24		22.85	22.69	22.93	1
	25		0		21.64		2		12	0		21.81	21.79	21.70	2
	25		12		21.73		2		12	6		21.75	21.81	21.84	2
	25		25		21.76		2		12	13		21.81	21.70	21.79	2
	50		0		21.76		2		25	0		21.74	21.74	21.64	2
	64QAM		1	0		21.97			2	64QAM		1	0	21.93	21.79
		1	24		21.91		2		1		12	21.87	21.85	21.70	2
		1	49		21.87		2		1		24	21.78	21.62	21.86	2
		25	0		20.62		3		12		0	20.74	20.72	20.63	3
		25	12		20.71		3		12		6	20.68	20.74	20.77	3
		25	25		20.74		3		12		13	20.74	20.63	20.72	3
		50	0		20.74		3		25		0	20.67	20.67	20.57	3

LTE Band 17															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23780	23790	23800				Channel		23755	23790	23825	
		Frequency (MHz)		709.0	710.0	711.0				Frequency (MHz)		706.5	710.0	713.5	
10M	QPSK	1	0	23.67	23.84	23.70	0	5M	QPSK	1	0	23.59	23.76	23.62	0
		1	24	23.68	23.70	23.56	0			1	12	23.60	23.62	23.48	0
		1	49	23.63	23.80	23.59	0			1	24	23.55	23.72	23.51	0
		25	0	22.76	22.81	22.75	1			12	0	22.68	22.73	22.67	1
		25	12	22.79	22.80	22.72	1			12	6	22.71	22.72	22.64	1
		25	25	22.71	22.80	22.65	1			12	13	22.63	22.72	22.57	1
		50	0	22.76	22.82	22.63	1			25	0	22.68	22.74	22.55	1
		16QAM	1	0	23.03	22.89	23.04			1	16QAM	1	0	22.95	22.81
	1		24	23.21	23.19	23.10	1		1	12		23.13	23.11	23.02	1
	1		49	23.19	23.21	22.88	1		1	24		23.11	23.13	22.80	1
	25		0	21.84	21.76	21.68	2		12	0		21.76	21.68	21.60	2
	25		12	21.66	21.78	21.76	2		12	6		21.58	21.70	21.68	2
	25		25	21.71	21.72	21.71	2		12	13		21.63	21.64	21.63	2
	50		0	21.77	21.82	21.76	2		25	0		21.69	21.74	21.68	2
	64QAM		1	0	22.20	22.06	22.21		2	64QAM		1	0	22.12	21.98
		1	24	22.38	22.36	22.27	2		1		12	22.30	22.28	22.19	2
		1	49	22.36	22.38	22.05	2		1		24	22.28	22.30	21.97	2
		25	0	21.01	20.93	20.85	3		12		0	20.93	20.85	20.77	3
		25	12	20.83	20.95	20.93	3		12		6	20.75	20.87	20.85	3
		25	25	20.88	20.89	20.88	3		12		13	20.80	20.81	20.80	3
		50	0	20.94	20.99	20.93	3		25		0	20.86	20.91	20.85	3

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LTE Band 25															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26140	26365	26590				Channel		26115	26365	26615	
		Frequency (MHz)		1860.0	1882.5	1905.0				Frequency (MHz)		1857.5	1882.5	1907.5	
20M	QPSK	1	0	23.55	23.33	23.22	0	15M	QPSK	1	0	23.47	23.25	23.14	0
		1	50	23.21	23.17	22.99	0			1	37	23.13	23.09	22.91	0
		1	99	23.17	23.22	23.04	0			1	74	23.09	23.14	22.96	0
		50	0	22.38	22.31	22.19	1			36	0	22.30	22.23	22.11	1
		50	25	22.36	22.34	22.19	1			36	19	22.28	22.26	22.11	1
		50	50	22.22	22.27	22.15	1			36	39	22.14	22.19	22.07	1
	16QAM	100	0	22.32	22.31	22.18	1			75	0	22.24	22.23	22.10	1
		1	0	22.47	22.51	22.65	1		16QAM	1	0	22.39	22.43	22.57	1
		1	50	22.49	22.61	22.06	1			1	37	22.41	22.53	21.98	1
		1	99	22.28	22.69	22.01	1			1	74	22.20	22.61	21.93	1
		50	0	21.32	21.38	21.30	2			36	0	21.24	21.30	21.22	2
		50	25	21.22	21.22	21.17	2			36	19	21.14	21.14	21.09	2
	64QAM	50	50	21.10	21.11	21.11	2			36	39	21.02	21.03	21.03	2
		100	0	21.34	21.36	21.24	2			75	0	21.26	21.28	21.16	2
		1	0	21.68	21.72	21.71	2		64QAM	1	0	21.60	21.64	21.63	2
		1	50	21.67	21.71	21.70	2			1	37	21.59	21.63	21.62	2
		1	99	21.62	21.66	21.65	2			1	74	21.54	21.58	21.57	2
		50	0	20.51	20.55	20.54	3			36	0	20.43	20.47	20.46	3
		50	25	20.52	20.56	20.55	3			36	19	20.44	20.48	20.47	3
		50	50	20.51	20.55	20.54	3			36	39	20.43	20.47	20.46	3
		100	0	20.49	20.53	20.52	3			75	0	20.41	20.45	20.44	3
10M	QPSK	1	0	23.38	23.16	23.05	0	5M	QPSK	1	0	23.30	23.08	22.97	0
		1	24	23.04	23.00	22.82	0			1	12	22.96	22.92	22.74	0
		1	49	23.00	23.05	22.87	0			1	24	22.92	22.97	22.79	0
		25	0	22.21	22.14	22.02	1			12	0	22.13	22.06	21.94	1
		25	12	22.19	22.17	22.02	1			12	6	22.11	22.09	21.94	1
		25	25	22.05	22.10	21.98	1			12	13	21.97	22.02	21.90	1
	16QAM	50	0	22.15	22.14	22.01	1			25	0	22.07	22.06	21.93	1
		1	0	22.30	22.34	22.48	1		16QAM	1	0	22.22	22.26	22.40	1
		1	24	22.32	22.44	21.89	1			1	12	22.24	22.36	21.81	1
		1	49	22.11	22.52	21.84	1			1	24	22.03	22.44	21.76	1
		25	0	21.15	21.21	21.13	2			12	0	21.07	21.13	21.05	2
		25	12	21.05	21.05	21.00	2			12	6	20.97	20.97	20.92	2
	64QAM	25	25	20.93	20.94	20.94	2			12	13	20.85	20.86	20.86	2
		50	0	21.17	21.19	21.07	2			25	0	21.09	21.11	20.99	2
		1	0	21.55	21.59	21.58	2		64QAM	1	0	21.49	21.53	21.52	2
		1	24	21.54	21.58	21.57	2			1	12	21.48	21.52	21.51	2
		1	49	21.49	21.53	21.52	2			1	24	21.43	21.47	21.46	2
		25	0	20.38	20.42	20.41	3			12	0	20.32	20.36	20.35	3
		25	12	20.39	20.43	20.42	3			12	6	20.33	20.37	20.36	3
		25	25	20.38	20.42	20.41	3			12	13	20.32	20.36	20.35	3
		50	0	20.36	20.40	20.39	3			25	0	20.30	20.34	20.33	3
3M	QPSK	1	0	23.22	23.00	22.89	0	1.4M	QPSK	1	0	23.17	22.95	22.84	0
		1	7	22.88	22.84	22.66	0			1	2	22.83	22.79	22.61	0
		1	14	22.84	22.89	22.71	0			1	5	22.79	22.84	22.66	0
		8	0	22.05	21.98	21.86	1			3	0	22.15	22.22	22.21	0
		8	3	22.03	22.01	21.86	1			3	1	22.14	22.21	22.19	0
		8	7	21.89	21.94	21.82	1			3	3	22.13	22.22	22.21	0
	16QAM	15	0	21.99	21.98	21.85	1			6	0	21.94	21.93	21.80	1
		1	0	22.14	22.18	22.32	1		16QAM	1	0	22.09	22.13	22.27	1
		1	7	22.16	22.28	21.73	1			1	2	22.11	22.23	21.68	1
		1	14	21.95	22.36	21.68	1			1	5	21.90	22.31	21.63	1
		8	0	20.99	21.05	20.97	2			3	0	21.22	21.23	22.00	1
		8	3	20.89	20.89	20.84	2			3	1	21.18	21.18	21.56	1
	64QAM	8	7	20.77	20.78	20.78	2			3	3	22.15	21.15	21.43	1
		15	0	21.01	21.03	20.91	2			6	0	20.96	20.98	20.86	2
		1	0	21.43	21.47	21.46	2		64QAM	1	0	21.38	21.42	21.41	2
		1	7	21.42	21.46	21.45	2			1	2	21.37	21.41	21.40	2
		1	14	21.37	21.41	21.40	2			1	5	21.32	21.36	21.35	2
		8	0	20.26	20.30	20.29	3			3	0	20.21	20.25	20.24	2
		8	3	20.27	20.31	20.30	3			3	1	20.22	20.26	20.25	2
		8	7	20.26	20.30	20.29	3			3	3	20.21	20.25	20.24	2
		15	0	20.24	20.28	20.27	3			6	0	20.19	20.23	20.22	3

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LTE Band 26															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26765	26865	26965				Channel		26740	26865	26990	
		Frequency (MHz)		821.5	831.5	841.5				Frequency (MHz)		819.0	831.5	844.0	
15M	QPSK	1	0	23.82	23.87	23.94	0	10M	QPSK	1	0	23.74	23.79	23.86	0
		1	37	23.72	23.93	23.77	0			1	24	23.64	23.85	23.69	0
		1	74	23.61	23.76	23.84	0			1	49	23.53	23.68	23.76	0
		36	0	22.82	22.78	22.95	1			25	0	22.74	22.70	22.87	1
		36	19	22.82	22.81	22.85	1			25	12	22.74	22.73	22.77	1
		36	39	22.87	22.90	22.94	1			25	25	22.79	22.82	22.86	1
		75	0	22.71	22.80	22.88	1			50	0	22.63	22.72	22.80	1
		1	0	23.15	23.38	23.12	1		16QAM	1	0	23.07	23.30	23.04	1
	16QAM	1	37	23.39	23.36	23.13	1			1	24	23.31	23.28	23.05	1
		1	74	23.28	22.82	22.85	1			1	49	23.20	22.74	22.77	1
		36	0	21.92	21.78	21.83	2			25	0	21.84	21.70	21.75	2
		36	19	21.78	21.85	21.96	2			25	12	21.70	21.77	21.88	2
		36	39	21.76	21.84	21.95	2			25	25	21.68	21.76	21.87	2
		75	0	21.81	21.79	21.92	2			50	0	21.73	21.71	21.84	2
		1	0	22.06	22.13	22.05	2		64QAM	1	0	21.98	22.05	21.97	2
	64QAM	1	37	21.89	21.96	21.88	2			1	24	21.81	21.88	21.80	2
		1	74	21.90	21.97	21.89	2			1	49	21.82	21.89	21.81	2
		36	0	20.80	20.87	20.79	3			25	0	20.72	20.79	20.71	3
		36	19	20.78	20.85	20.77	3			25	12	20.70	20.77	20.69	3
		36	39	20.76	20.83	20.75	3			25	25	20.68	20.75	20.67	3
		75	0	20.72	20.79	20.71	3			50	0	20.64	20.71	20.63	3
5M	QPSK	1	0	23.66	23.71	23.78	0	3M	QPSK	1	0	23.60	23.65	23.72	0
		1	12	23.56	23.77	23.61	0			1	7	23.50	23.71	23.55	0
		1	24	23.45	23.60	23.68	0			1	14	23.39	23.54	23.62	0
		12	0	22.66	22.62	22.79	1			8	0	22.60	22.56	22.73	1
		12	6	22.66	22.65	22.69	1			8	3	22.60	22.59	22.63	1
		12	13	22.71	22.74	22.78	1			8	7	22.65	22.68	22.72	1
		25	0	22.55	22.64	22.72	1			15	0	22.49	22.58	22.66	1
		1	0	22.99	23.22	22.96	1		16QAM	1	0	22.93	23.16	22.90	1
	16QAM	1	12	23.23	23.20	22.97	1			1	7	23.17	23.14	22.91	1
		1	24	23.12	22.66	22.69	1			1	14	23.06	22.60	22.63	1
		12	0	21.76	21.62	21.67	2			8	0	21.70	21.56	21.61	2
		12	6	21.62	21.69	21.80	2			8	3	21.56	21.63	21.74	2
		12	13	21.60	21.68	21.79	2			8	7	21.54	21.62	21.73	2
		25	0	21.65	21.63	21.76	2			15	0	21.59	21.57	21.70	2
		1	0	21.90	21.97	21.89	2		64QAM	1	0	21.84	21.91	21.83	2
	64QAM	1	12	21.73	21.80	21.72	2			1	7	21.67	21.74	21.66	2
		1	24	21.74	21.81	21.73	2			1	14	21.68	21.75	21.67	2
		12	0	20.64	20.71	20.63	3			8	0	20.58	20.65	20.57	3
		12	6	20.62	20.69	20.61	3			8	3	20.56	20.63	20.55	3
		12	13	20.60	20.67	20.59	3			8	7	20.54	20.61	20.53	3
		25	0	20.56	20.63	20.55	3			15	0	20.50	20.57	20.49	3
1.4M	QPSK	1	0	23.55	23.60	23.67	0		QPSK	1	0	23.55	23.60	23.67	0
		1	2	23.45	23.66	23.50	0			1	2	23.45	23.66	23.50	0
		1	5	23.34	23.49	23.57	0			1	5	23.34	23.49	23.57	0
		3	0	22.72	22.69	22.68	0			3	0	22.72	22.69	22.68	0
		3	1	22.68	22.65	22.63	0			3	1	22.68	22.65	22.63	0
		3	3	22.65	22.63	22.67	0			3	3	22.65	22.63	22.67	0
		6	0	22.44	22.53	22.61	1			6	0	22.44	22.53	22.61	1
		1	0	22.88	23.11	22.85	1		16QAM	1	0	22.88	23.11	22.85	1
	16QAM	1	2	23.12	23.09	22.86	1			1	2	23.12	23.09	22.86	1
		1	5	23.01	22.55	22.58	1			1	5	23.01	22.55	22.58	1
		3	0	21.65	21.68	22.57	1			3	0	21.65	21.68	22.57	1
		3	1	21.62	21.65	21.69	1			3	1	21.62	21.65	21.69	1
		3	3	21.61	21.64	21.68	1			3	3	21.61	21.64	21.68	1
		6	0	21.54	21.52	21.65	2			6	0	21.54	21.52	21.65	2
		1	0	21.79	21.86	21.78	2		64QAM	1	0	21.79	21.86	21.78	2
	64QAM	1	2	21.62	21.69	21.61	2			1	2	21.62	21.69	21.61	2
		1	5	21.63	21.70	21.62	2			1	5	21.63	21.70	21.62	2
		3	0	20.68	20.65	20.61	2			3	0	20.68	20.65	20.61	2
		3	1	20.65	20.62	20.61	2			3	1	20.65	20.62	20.61	2
		3	3	20.61	20.61	20.62	2			3	3	20.61	20.61	20.62	2
		6	0	20.45	20.52	20.44	3			6	0	20.45	20.52	20.44	3

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LTE Band 38															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		37850	38000	38150				Channel		37825	38000	38175	
		Frequency (MHz)		2580.0	2595.0	2610.0				Frequency (MHz)		2577.5	2595.0	2612.5	
20M	QPSK	1	0	23.66	23.84	23.76	0	15M	QPSK	1	0	23.53	23.71	23.63	0
		1	50	23.63	23.81	23.73	0			1	37	23.50	23.68	23.60	0
		1	99	23.60	23.78	23.70	0			1	74	23.47	23.65	23.57	0
		50	0	22.80	22.98	22.90	1			36	0	22.67	22.85	22.77	1
		50	25	22.78	22.96	22.88	1			36	19	22.65	22.83	22.75	1
		50	50	22.74	22.92	22.84	1			36	39	22.61	22.79	22.71	1
		100	0	22.70	22.88	22.80	1			75	0	22.57	22.75	22.67	1
	16QAM	1	0	22.64	22.82	22.74	1		16QAM	1	0	22.51	22.69	22.61	1
		1	50	22.61	22.79	22.71	1			1	37	22.48	22.66	22.58	1
		1	99	22.58	22.76	22.68	1			1	74	22.45	22.63	22.55	1
		50	0	21.78	21.96	21.88	2			36	0	21.65	21.83	21.75	2
		50	25	21.76	21.94	21.86	2			36	19	21.63	21.81	21.73	2
		50	50	21.72	21.90	21.82	2			36	39	21.59	21.77	21.69	2
		100	0	21.68	21.86	21.78	2			75	0	21.55	21.73	21.65	2
	64QAM	1	0	21.61	21.79	21.71	2		64QAM	1	0	21.48	21.66	21.58	2
		1	50	21.58	21.76	21.68	2			1	37	21.45	21.63	21.55	2
		1	99	21.55	21.73	21.65	2			1	74	21.42	21.60	21.52	2
		50	0	20.75	20.93	20.85	3			36	0	20.62	20.80	20.72	3
		50	25	20.73	20.91	20.83	3			36	19	20.60	20.78	20.70	3
		50	50	20.69	20.87	20.79	3			36	39	20.56	20.74	20.66	3
		100	0	20.65	20.83	20.75	3			75	0	20.52	20.70	20.62	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		37800	38000	38200				Channel		37775	38000	38225	
		Frequency (MHz)		2575.0	2595.0	2615.0				Frequency (MHz)		2572.5	2595.0	2617.5	
10M	QPSK	1	0	23.44	23.62	23.54	0	5M	QPSK	1	0	23.30	23.48	23.40	0
		1	24	23.41	23.59	23.51	0			1	12	23.27	23.45	23.37	0
		1	49	23.38	23.56	23.48	0			1	24	23.24	23.42	23.34	0
		25	0	22.58	22.76	22.68	1			12	0	22.44	22.62	22.54	1
		25	12	22.56	22.74	22.66	1			12	6	22.42	22.60	22.52	1
		25	25	22.52	22.70	22.62	1			12	13	22.38	22.56	22.48	1
		50	0	22.48	22.66	22.58	1			25	0	22.34	22.52	22.44	1
	16QAM	1	0	22.42	22.60	22.52	1		16QAM	1	0	22.28	22.46	22.38	1
		1	24	22.39	22.57	22.49	1			1	12	22.25	22.43	22.35	1
		1	49	22.36	22.54	22.46	1			1	24	22.22	22.40	22.32	1
		25	0	21.56	21.74	21.66	2			12	0	21.42	21.60	21.52	2
		25	12	21.54	21.72	21.64	2			12	6	21.40	21.58	21.50	2
		25	25	21.50	21.68	21.60	2			12	13	21.36	21.54	21.46	2
		50	0	21.46	21.64	21.56	2			25	0	21.32	21.50	21.42	2
	64QAM	1	0	21.39	21.57	21.49	2		64QAM	1	0	21.25	21.43	21.35	2
		1	24	21.36	21.54	21.46	2			1	12	21.22	21.40	21.32	2
		1	49	21.33	21.51	21.43	2			1	24	21.19	21.37	21.29	2
		25	0	20.53	20.71	20.63	3			12	0	20.39	20.57	20.49	3
		25	12	20.51	20.69	20.61	3			12	6	20.37	20.55	20.47	3
		25	25	20.47	20.65	20.57	3			12	13	20.33	20.51	20.43	3
		50	0	20.43	20.61	20.53	3			25	0	20.29	20.47	20.39	3

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LTE Band 41																			
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39750	40185	40620	41055	41490				Channel		39725	40173	40620	41068	41515	
		Frequency (MHz)		2506.0	2549.5	2593.0	2636.5	2680.0				Frequency (MHz)		2503.5	2548.3	2593.0	2637.8	2682.5	
20M	QPSK	1	0	23.86	23.53	23.51	23.35	23.56	0	15M	QPSK	1	0	23.79	23.46	23.44	23.28	23.49	0
		1	50	23.79	23.80	23.83	23.43	23.45	0			1	37	23.72	23.73	23.76	23.36	23.38	0
		1	99	23.66	23.73	23.71	23.65	23.40	0			1	74	23.59	23.66	23.64	23.58	23.33	0
		50	0	22.99	22.91	22.86	22.91	22.75	1			36	0	22.92	22.84	22.79	22.84	22.68	1
		50	25	22.93	22.95	22.97	22.96	22.81	1			36	19	22.86	22.88	22.90	22.89	22.74	1
		50	50	22.88	22.92	22.85	22.97	22.72	1			36	39	22.81	22.85	22.78	22.90	22.65	1
		100	0	22.95	22.90	22.76	22.94	22.65	1			75	0	22.88	22.83	22.69	22.87	22.58	1
	16QAM	1	0	22.95	22.93	22.90	22.81	22.58	1		16QAM	1	0	22.88	22.86	22.83	22.74	22.51	1
		1	50	22.91	22.86	22.80	22.78	22.93	1			1	37	22.84	22.79	22.73	22.71	22.86	1
		1	99	22.89	22.85	22.91	22.67	22.71	1			1	74	22.82	22.78	22.84	22.60	22.64	1
		50	0	21.74	21.92	21.81	21.95	21.72	2			36	0	21.67	21.85	21.74	21.88	21.65	2
		50	25	21.83	21.75	21.92	21.68	21.78	2			36	19	21.76	21.68	21.85	21.61	21.71	2
		50	50	21.88	21.99	21.82	21.75	21.70	2			36	39	21.81	21.92	21.75	21.68	21.63	2
		100	0	21.89	21.74	21.81	21.97	21.72	2			75	0	21.82	21.67	21.74	21.90	21.65	2
	64QAM	1	0	21.98	21.96	21.93	21.84	21.61	2		64QAM	1	0	21.91	21.89	21.86	21.77	21.54	2
		1	50	21.94	21.89	21.83	21.81	21.96	2			1	37	21.87	21.82	21.76	21.74	21.89	2
		1	99	21.92	21.88	21.94	21.70	21.74	2			1	74	21.85	21.81	21.87	21.63	21.67	2
		50	0	20.77	20.95	20.84	20.98	20.75	3			36	0	20.70	20.88	20.77	20.91	20.68	3
		50	25	20.86	20.78	20.95	20.71	20.81	3			36	19	20.79	20.71	20.88	20.64	20.74	3
		50	50	20.91	20.88	20.85	20.78	20.73	3			36	39	20.84	20.81	20.78	20.71	20.66	3
		100	0	20.92	20.77	20.84	21.00	20.75	3			75	0	20.85	20.70	20.77	20.93	20.68	3
10M	QPSK	1	0	23.71	23.38	23.36	23.20	23.41	0	5M	QPSK	1	0	23.65	23.32	23.30	23.14	23.35	0
		1	24	23.64	23.65	23.68	23.28	23.30	0			1	12	23.58	23.59	23.62	23.22	23.24	0
		1	49	23.51	23.58	23.56	23.50	23.25	0			1	24	23.45	23.52	23.50	23.44	23.19	0
		25	0	22.84	22.76	22.71	22.76	22.60	1			12	0	22.78	22.70	22.65	22.70	22.54	1
		25	12	22.78	22.80	22.82	22.81	22.66	1			12	6	22.72	22.74	22.76	22.75	22.60	1
		25	25	22.73	22.77	22.70	22.82	22.57	1			12	13	22.67	22.71	22.64	22.76	22.51	1
		50	0	22.80	22.75	22.61	22.79	22.50	1			25	0	22.74	22.69	22.55	22.73	22.44	1
	16QAM	1	0	22.80	22.78	22.75	22.66	22.43	1		16QAM	1	0	22.74	22.72	22.69	22.60	22.37	1
		1	24	22.76	22.71	22.65	22.63	22.78	1			1	12	22.70	22.65	22.59	22.57	22.72	1
		1	49	22.74	22.70	22.76	22.52	22.56	1			1	24	22.68	22.64	22.70	22.46	22.50	1
		25	0	21.59	21.77	21.66	21.80	21.57	2			12	0	21.53	21.71	21.60	21.74	21.51	2
		25	12	21.68	21.60	21.77	21.53	21.63	2			12	6	21.62	21.54	21.71	21.47	21.57	2
		25	25	21.73	21.84	21.67	21.60	21.55	2			12	13	21.67	21.78	21.61	21.54	21.49	2
		50	0	21.74	21.59	21.66	21.82	21.57	2			25	0	21.68	21.53	21.60	21.76	21.51	2
	64QAM	1	0	21.83	21.81	21.78	21.69	21.46	2		64QAM	1	0	21.77	21.75	21.72	21.63	21.40	2
		1	24	21.79	21.74	21.68	21.66	21.81	2			1	12	21.73	21.68	21.62	21.60	21.75	2
		1	49	21.77	21.73	21.79	21.55	21.59	2			1	24	21.71	21.67	21.73	21.49	21.53	2
		25	0	20.62	20.80	20.69	20.83	20.60	3			12	0	20.56	20.74	20.63	20.77	20.54	3
		25	12	20.71	20.63	20.80	20.56	20.66	3			12	6	20.65	20.57	20.74	20.50	20.60	3
		25	25	20.76	20.73	20.70	20.63	20.58	3			12	13	20.70	20.67	20.64	20.57	20.52	3
		50	0	20.77	20.62	20.69	20.85	20.60	3			25	0	20.71	20.56	20.63	20.79	20.54	3

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<WLAN 2.4G>

Mode	Channel	Frequency (MHz)	Average Power
802.11b	1	2412	18.83
	6	2437	18.7
	11	2462	18.65
802.11g	1	2412	15.07
	6	2437	15.91
	11	2462	15.34
802.11n (HT20)	1	2412	14.97
	6	2437	15.87
	11	2462	14.51

<WLAN 5.2G>

Mode	Channel	Frequency (MHz)	Average Power
802.11ac (VHT80)	42	5210	15.38

<WLAN 5.3G>

Mode	Channel	Frequency (MHz)	Average Power
802.11ac (VHT80)	58	5290	15.70

<WLAN 5.6G>

Mode	Channel	Frequency (MHz)	Average Power
802.11ac (VHT80)	106	5530	15.62
	138	5690	15.59

<WLAN 5.8G>

Mode	Channel	Frequency (MHz)	Average Power
802.11ac (VHT80)	155	5775	15.77

<Bluetooth>

Mode	Channel	Frequency (MHz)	Average Power
Bluetooth EDR	0	2402	6.65
	39	2441	6.03
	78	2480	6.39
Bluetooth LE	0	2402	1.16
	19	2440	0.37
	39	2480	0.48

4.7 SAR Testing Results

4.7.1 SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

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

- (1) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- (2) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- (3) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

<KDB 941225 D01, 3G SAR Measurement Procedures>

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

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

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

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

(2) QPSK with 100% RB allocation

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

(3) Higher order modulations

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

(4) Other channel bandwidth

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

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<Power Confirmation for SAR Test Exclusion for LTE Downlink CA>

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

Power Measurements for Intra-Band Non-Contiguous Downlink CA

CA Combination	PCC								SCC1				Power	
	LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	RB Size	RB Offset	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	Tx Power with DL-CA Active (dBm)	Single Carrier Tx Power (dBm)
CA_2A_2A	2	20M	18900	1880	1	0	900	1960	2	20M	1100	1980	24.81	24.90
CA_4A_4A	4	20M	20050	1720	1	0	2050	2120	4	20M	2300	2145	24.79	24.90
CA_7A_7A	7	20M	21100	2535	1	0	3100	2655	7	20M	3350	2680	23.68	23.75
CA_41A_41A	41	20M	39750	2506	1	0	39750	2506	41	20M	41490	2680	23.78	23.86

Power Measurements for Inter-Band Downlink CA

CA Combination	PCC								SCC1				Power	
	LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	RB Size	RB Offset	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	Tx Power with DL-CA Active (dBm)	Single Carrier Tx Power (dBm)
CA_2A_4A	2	20M	18900	1880	1	0	900	1960	4	20M	2175	2132.5	24.87	24.90
CA_2A_5A	2	20M	18900	1880	1	0	900	1960	5	10M	2525	881.5	24.78	24.90
CA_2A_12A	2	20M	18900	1880	1	0	900	1960	12	10M	5095	737.5	24.84	24.90
CA_2A_13A	2	20M	18900	1880	1	0	900	1960	13	10M	5230	751	24.82	24.90
CA_2A_29A	2	20M	18900	1880	1	0	900	1960	29	10M	9715	722.5	24.81	24.90
CA_4A_5A	4	20M	20050	1720	1	0	2050	2120	5	10M	2525	881.5	24.89	24.90
CA_4A_12A	4	20M	20050	1720	1	0	2050	2120	12	10M	5095	737.5	24.87	24.90
CA_4A_13A	4	20M	20050	1720	1	0	2050	2120	13	10M	5230	751	24.84	24.90
CA_4A_29A	4	20M	20050	1720	1	0	2050	2120	29	10M	9715	722.5	24.85	24.90
CA_5A_7A	5	10M	20600	844	1	0	2600	889	7	20M	3100	2655	23.86	23.99

Summary for SAR Test Exclusion for LTE Downlink CA

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

<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.

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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	GPRS8	Right Cheek	189	34.4	33.21	1.32	0.01	0.323	0.42
	GSM850	GPRS8	Right Tilted	189	34.4	33.21	1.32	0.09	0.208	0.27
	GSM850	GPRS8	Left Cheek	189	34.4	33.21	1.32	-0.11	0.271	0.36
	GSM850	GPRS8	Left Tilted	189	34.4	33.21	1.32	0.08	0.196	0.26
	GSM850	GPRS8	Right Cheek	128	34.4	33.23	1.31	0.05	0.31	0.41
	GSM850	GPRS8	Right Cheek	251	34.4	33.27	1.30	0.07	0.304	0.39
02	GSM1900	GPRS10	Right Cheek	810	28.5	28.32	1.04	-0.11	0.207	0.22
	GSM1900	GPRS10	Right Tilted	810	28.5	28.32	1.04	0.08	0.174	0.18
	GSM1900	GPRS10	Left Cheek	810	28.5	28.32	1.04	-0.02	0.328	0.34
	GSM1900	GPRS10	Left Tilted	810	28.5	28.32	1.04	0.01	0.150	0.16
	GSM1900	GPRS10	Left Cheek	512	28.5	27.50	1.26	-0.03	0.264	0.33
	GSM1900	GPRS10	Left Cheek	661	28.5	27.99	1.12	-0.07	0.277	0.31
03	WCDMA II	RMC12.2K	Right Cheek	9538	25.1	24.18	1.24	-0.01	0.351	0.43
	WCDMA II	RMC12.2K	Right Tilted	9538	25.1	24.18	1.24	0.09	0.298	0.37
	WCDMA II	RMC12.2K	Left Cheek	9538	25.1	24.18	1.24	-0.12	0.602	0.74
	WCDMA II	RMC12.2K	Left Tilted	9538	25.1	24.18	1.24	-0.19	0.265	0.33
	WCDMA II	RMC12.2K	Left Cheek	9262	25.1	24.01	1.29	-0.11	0.561	0.72
	WCDMA II	RMC12.2K	Left Cheek	9400	25.1	24.15	1.24	0.02	0.583	0.73
04	WCDMA IV	RMC12.2K	Right Cheek	1312	25.1	24.69	1.10	0.01	0.232	0.25
	WCDMA IV	RMC12.2K	Right Tilted	1312	25.1	24.69	1.10	-0.16	0.216	0.24
	WCDMA IV	RMC12.2K	Left Cheek	1312	25.1	24.69	1.10	-0.11	0.573	0.63
	WCDMA IV	RMC12.2K	Left Tilted	1312	25.1	24.69	1.10	0.17	0.187	0.21
	WCDMA IV	RMC12.2K	Left Cheek	1413	25.1	24.62	1.12	0.02	0.544	0.61
	WCDMA IV	RMC12.2K	Left Cheek	1513	25.1	24.63	1.11	0.11	0.558	0.62
05	WCDMA V	RMC12.2K	Right Cheek	4233	24.9	24.45	1.11	-0.05	0.493	0.55
	WCDMA V	RMC12.2K	Right Tilted	4233	24.9	24.45	1.11	-0.03	0.309	0.34
	WCDMA V	RMC12.2K	Left Cheek	4233	24.9	24.45	1.11	-0.09	0.402	0.45
	WCDMA V	RMC12.2K	Left Tilted	4233	24.9	24.45	1.11	0.12	0.302	0.33
	WCDMA V	RMC12.2K	Right Cheek	4132	24.9	24.04	1.22	-0.04	0.441	0.54
	WCDMA V	RMC12.2K	Right Cheek	4182	24.9	24.16	1.19	0.13	0.438	0.52
06	CDMA2000 BC0	RC3+SO55	Right Cheek	777	25.4	24.29	1.29	-0.01	0.499	0.64
	CDMA2000 BC0	RC3+SO55	Right Tilted	777	25.4	24.29	1.29	-0.06	0.348	0.45
	CDMA2000 BC0	RC3+SO55	Left Cheek	777	25.4	24.29	1.29	0.12	0.435	0.56
	CDMA2000 BC0	RC3+SO55	Left Tilted	777	25.4	24.29	1.29	0.01	0.335	0.43
	CDMA2000 BC0	RC3+SO55	Right Cheek	1013	25.4	24.11	1.35	-0.11	0.452	0.61
	CDMA2000 BC0	RC3+SO55	Right Cheek	384	25.4	24.17	1.33	0.02	0.467	0.62
07	CDMA2000 BC1	RC3+SO55	Right Cheek	25	24.3	23.90	1.10	-0.01	0.332	0.36
	CDMA2000 BC1	RC3+SO55	Right Tilted	25	24.3	23.90	1.10	0.15	0.295	0.32
	CDMA2000 BC1	RC3+SO55	Left Cheek	25	24.3	23.90	1.10	-0.01	0.426	0.47
	CDMA2000 BC1	RC3+SO55	Left Tilted	25	24.3	23.90	1.10	-0.09	0.228	0.25
	CDMA2000 BC1	RC3+SO55	Left Cheek	600	24.3	23.78	1.13	-0.08	0.401	0.45
	CDMA2000 BC1	RC3+SO55	Left Cheek	1175	24.3	23.84	1.11	0.11	0.412	0.46

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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)
08	CDMA2000 BC10	RC3+SO55	Right Cheek	684	25.4	24.23	1.31	-0.03	0.406	0.53
	CDMA2000 BC10	RC3+SO55	Right Tilted	684	25.4	24.23	1.31	0.11	0.267	0.35
	CDMA2000 BC10	RC3+SO55	Left Cheek	684	25.4	24.23	1.31	-0.03	0.366	0.48
	CDMA2000 BC10	RC3+SO55	Left Tilted	684	25.4	24.23	1.31	-0.06	0.275	0.36
	CDMA2000 BC10	RC3+SO55	Right Cheek	476	25.4	24.18	1.32	0.14	0.388	0.51
	CDMA2000 BC10	RC3+SO55	Right Cheek	580	25.4	24.15	1.33	-0.04	0.392	0.52

Plot No.	Band	Mode	RB#	RB Offset	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)
	LTE 2	QPSK20M	1	0	Right Cheek	18900	25.1	24.90	1.05	-0.01	0.396	0.41
	LTE 2	QPSK20M	1	0	Right Tilted	18900	25.1	24.90	1.05	0.16	0.265	0.28
09	LTE 2	QPSK20M	1	0	Left Cheek	18900	25.1	24.90	1.05	0.09	0.701	0.73
	LTE 2	QPSK20M	1	0	Left Tilted	18900	25.1	24.90	1.05	0.09	0.223	0.23
	LTE 2	QPSK20M	50	0	Right Cheek	18900	24.1	23.82	1.07	0.01	0.324	0.35
	LTE 2	QPSK20M	50	0	Right Tilted	18900	24.1	23.82	1.07	0.13	0.22	0.23
	LTE 2	QPSK20M	50	0	Left Cheek	18900	24.1	23.82	1.07	-0.09	0.568	0.61
	LTE 2	QPSK20M	50	0	Left Tilted	18900	24.1	23.82	1.07	0.08	0.179	0.19
	LTE 2	QPSK20M	1	0	Left Cheek	18700	25.1	24.77	1.08	0.04	0.664	0.72
	LTE 2	QPSK20M	1	0	Left Cheek	19100	25.1	24.81	1.07	0.14	0.648	0.69
	LTE 4	QPSK20M	1	0	Right Cheek	20050	25.1	24.90	1.05	0.01	0.249	0.26
	LTE 4	QPSK20M	1	0	Right Tilted	20050	25.1	24.90	1.05	-0.15	0.238	0.25
10	LTE 4	QPSK20M	1	0	Left Cheek	20050	25.1	24.90	1.05	-0.02	0.647	0.68
	LTE 4	QPSK20M	1	0	Left Tilted	20050	25.1	24.90	1.05	0.03	0.203	0.21
	LTE 4	QPSK20M	50	0	Right Cheek	20050	24.1	23.85	1.06	0.15	0.205	0.22
	LTE 4	QPSK20M	50	0	Right Tilted	20050	24.1	23.85	1.06	-0.19	0.187	0.20
	LTE 4	QPSK20M	50	0	Left Cheek	20050	24.1	23.85	1.06	0.05	0.514	0.54
	LTE 4	QPSK20M	50	0	Left Tilted	20050	24.1	23.85	1.06	0.19	0.177	0.19
	LTE 4	QPSK20M	1	0	Left Cheek	20175	25.1	24.71	1.09	-0.07	0.61	0.67
	LTE 4	QPSK20M	1	0	Left Cheek	20300	25.1	24.73	1.09	0.1	0.612	0.67
11	LTE 5	QPSK10M	1	0	Right Cheek	20600	24.7	23.99	1.18	0.01	0.385	0.45
	LTE 5	QPSK10M	1	0	Right Tilted	20600	24.7	23.99	1.18	-0.06	0.245	0.29
	LTE 5	QPSK10M	1	0	Left Cheek	20600	24.7	23.99	1.18	-0.07	0.332	0.39
	LTE 5	QPSK10M	1	0	Left Tilted	20600	24.7	23.99	1.18	0.03	0.233	0.27
	LTE 5	QPSK10M	25	0	Right Cheek	20600	23.7	23.00	1.17	0.05	0.309	0.36
	LTE 5	QPSK10M	25	0	Right Tilted	20600	23.7	23.00	1.17	-0.06	0.209	0.25
	LTE 5	QPSK10M	25	0	Left Cheek	20600	23.7	23.00	1.17	-0.11	0.274	0.32
	LTE 5	QPSK10M	25	0	Left Tilted	20600	23.7	23.00	1.17	-0.07	0.189	0.22
	LTE 5	QPSK10M	1	0	Right Cheek	20450	24.7	23.73	1.25	-0.11	0.345	0.43
	LTE 5	QPSK10M	1	49	Right Cheek	20525	24.7	23.89	1.21	0.04	0.338	0.41
	LTE 7	QPSK20M	1	0	Right Cheek	21100	24.4	23.75	1.16	0.08	0.166	0.19
	LTE 7	QPSK20M	1	0	Right Tilted	21100	24.4	23.75	1.16	0.06	0.134	0.16
12	LTE 7	QPSK20M	1	0	Left Cheek	21100	24.4	23.75	1.16	-0.09	0.326	0.38
	LTE 7	QPSK20M	1	0	Left Tilted	21100	24.4	23.75	1.16	0.04	0.109	0.13
	LTE 7	QPSK20M	50	0	Right Cheek	21100	23.4	22.91	1.12	-0.02	0.132	0.15
	LTE 7	QPSK20M	50	0	Right Tilted	21100	23.4	22.91	1.12	0.07	0.105	0.12
	LTE 7	QPSK20M	50	0	Left Cheek	21100	23.4	22.91	1.12	-0.06	0.240	0.27
	LTE 7	QPSK20M	50	0	Left Tilted	21100	23.4	22.91	1.12	0.08	0.089	0.10
	LTE 7	QPSK20M	1	99	Left Cheek	20850	24.4	23.63	1.19	-0.14	0.294	0.35
	LTE 7	QPSK20M	1	0	Left Cheek	21350	24.4	23.59	1.21	0.07	0.299	0.36

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Plot No.	Band	Mode	RB#	RB Offset	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)
13	LTE 12	QPSK10M	1	0	Right Cheek	23060	24.9	23.81	1.29	0.01	0.163	0.21
	LTE 12	QPSK10M	1	0	Right Tilted	23060	24.9	23.81	1.29	0.08	0.108	0.14
	LTE 12	QPSK10M	1	0	Left Cheek	23060	24.9	23.81	1.29	0.05	0.152	0.20
	LTE 12	QPSK10M	1	0	Left Tilted	23060	24.9	23.81	1.29	0.04	0.108	0.14
	LTE 12	QPSK10M	25	12	Right Cheek	23060	23.9	22.93	1.25	0.06	0.139	0.17
	LTE 12	QPSK10M	25	12	Right Tilted	23060	23.9	22.93	1.25	0.08	0.102	0.13
	LTE 12	QPSK10M	25	12	Left Cheek	23060	23.9	22.93	1.25	0.09	0.129	0.16
	LTE 12	QPSK10M	25	12	Left Tilted	23060	23.9	22.93	1.25	0.02	0.088	0.11
	LTE 12	QPSK10M	1	24	Right Cheek	23095	24.9	23.73	1.31	-0.08	0.147	0.19
	LTE 12	QPSK10M	1	49	Right Cheek	23130	24.9	23.70	1.32	0.01	0.151	0.20
14	LTE 13	QPSK10M	1	0	Right Cheek	23230	24.9	23.95	1.24	-0.01	0.291	0.36
	LTE 13	QPSK10M	1	0	Right Tilted	23230	24.9	23.95	1.24	0.03	0.199	0.25
	LTE 13	QPSK10M	1	0	Left Cheek	23230	24.9	23.95	1.24	0.05	0.216	0.27
	LTE 13	QPSK10M	1	0	Left Tilted	23230	24.9	23.95	1.24	-0.13	0.178	0.22
	LTE 13	QPSK10M	25	25	Right Cheek	23230	23.9	22.85	1.27	0.05	0.221	0.28
	LTE 13	QPSK10M	25	25	Right Tilted	23230	23.9	22.85	1.27	0.07	0.155	0.20
	LTE 13	QPSK10M	25	25	Left Cheek	23230	23.9	22.85	1.27	-0.13	0.177	0.23
	LTE 13	QPSK10M	25	25	Left Tilted	23230	23.9	22.85	1.27	0.04	0.145	0.18
	LTE 25	QPSK20M	1	0	Right Cheek	26140	24.0	23.55	1.11	-0.01	0.266	0.30
	LTE 25	QPSK20M	1	0	Right Tilted	26140	24.0	23.55	1.11	0.02	0.23	0.26
15	LTE 25	QPSK20M	1	0	Left Cheek	26140	24.0	23.55	1.11	-0.01	0.462	0.51
	LTE 25	QPSK20M	1	0	Left Tilted	26140	24.0	23.55	1.11	-0.19	0.187	0.21
	LTE 25	QPSK20M	50	0	Right Cheek	26140	23.0	22.38	1.15	0.13	0.243	0.28
	LTE 25	QPSK20M	50	0	Right Tilted	26140	23.0	22.38	1.15	0.01	0.177	0.20
	LTE 25	QPSK20M	50	0	Left Cheek	26140	23.0	22.38	1.15	0.19	0.370	0.43
	LTE 25	QPSK20M	50	0	Left Tilted	26140	23.0	22.38	1.15	0.07	0.143	0.16
	LTE 25	QPSK20M	1	0	Left Cheek	26365	24.0	23.33	1.17	-0.01	0.417	0.49
	LTE 25	QPSK20M	1	0	Left Cheek	26590	24.0	23.22	1.20	0.03	0.413	0.49
16	LTE 26	QPSK15M	1	0	Right Cheek	26965	24.6	23.94	1.16	-0.03	0.315	0.37
	LTE 26	QPSK15M	1	0	Right Tilted	26965	24.6	23.94	1.16	-0.12	0.071	0.08
	LTE 26	QPSK15M	1	0	Left Cheek	26965	24.6	23.94	1.16	-0.04	0.117	0.14
	LTE 26	QPSK15M	1	0	Left Tilted	26965	24.6	23.94	1.16	0.13	0.084	0.10
	LTE 26	QPSK15M	36	0	Right Cheek	26965	23.6	22.95	1.16	0.01	0.113	0.13
	LTE 26	QPSK15M	36	0	Right Tilted	26965	23.6	22.95	1.16	-0.06	0.072	0.08
	LTE 26	QPSK15M	36	0	Left Cheek	26965	23.6	22.95	1.16	0.02	0.089	0.10
	LTE 26	QPSK15M	36	0	Left Tilted	26965	23.6	22.95	1.16	0.07	0.070	0.08
	LTE 26	QPSK15M	1	0	Right Cheek	26765	24.6	23.82	1.20	0.04	0.295	0.35
	LTE 26	QPSK15M	1	0	Right Cheek	26865	24.6	23.93	1.17	-0.11	0.301	0.35

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Plot No.	Band	Mode	RB#	RB Offset	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)
	LTE 38	QPSK20M	1	0	Right Cheek	38000	24.5	23.84	1.16	0.06	0.089	0.10
	LTE 38	QPSK20M	1	0	Right Tilted	38000	24.5	23.84	1.16	0.07	0.07	0.08
17	LTE 38	QPSK20M	1	0	Left Cheek	38000	24.5	23.84	1.16	0.04	0.205	0.24
	LTE 38	QPSK20M	1	0	Left Tilted	38000	24.5	23.84	1.16	-0.01	0.051	0.06
	LTE 38	QPSK20M	50	0	Right Cheek	38000	23.5	22.98	1.13	0.04	0.063	0.07
	LTE 38	QPSK20M	50	0	Right Tilted	38000	23.5	22.98	1.13	0.08	0.06	0.07
	LTE 38	QPSK20M	50	0	Left Cheek	38000	23.5	22.98	1.13	0.03	0.167	0.19
	LTE 38	QPSK20M	50	0	Left Tilted	38000	23.5	22.98	1.13	0.04	0.044	0.05
	LTE 38	QPSK20M	1	0	Left Cheek	37850	24.5	23.66	1.21	0.07	0.176	0.21
	LTE 38	QPSK20M	1	0	Left Cheek	38150	24.5	23.76	1.19	-0.13	0.188	0.22
	LTE 41	QPSK20M	1	0	Right Cheek	39750	24.4	23.86	1.13	0.08	0.104	0.12
	LTE 41	QPSK20M	1	0	Right Tilted	39750	24.4	23.86	1.13	0.06	0.083	0.09
18	LTE 41	QPSK20M	1	0	Left Cheek	39750	24.4	23.86	1.13	-0.06	0.225	0.25
	LTE 41	QPSK20M	1	0	Left Tilted	39750	24.4	23.86	1.13	0.04	0.083	0.09
	LTE 41	QPSK20M	50	0	Right Cheek	39750	23.4	22.99	1.10	0.08	0.083	0.09
	LTE 41	QPSK20M	50	0	Right Tilted	39750	23.4	22.99	1.10	-0.02	0.07	0.08
	LTE 41	QPSK20M	50	0	Left Cheek	39750	23.4	22.99	1.10	0.04	0.191	0.21
	LTE 41	QPSK20M	50	0	Left Tilted	39750	23.4	22.99	1.10	0.06	0.073	0.08
	LTE 41	QPSK20M	1	50	Left Cheek	40185	24.4	23.80	1.15	0.05	0.184	0.21
	LTE 41	QPSK20M	1	50	Left Cheek	40620	24.4	23.83	1.14	-0.04	0.199	0.23
	LTE 41	QPSK20M	1	99	Left Cheek	41055	24.4	23.65	1.19	-0.07	0.201	0.24
	LTE 41	QPSK20M	1	0	Left Cheek	41490	24.4	23.56	1.21	0.01	0.183	0.22

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	WLAN2.4G	802.11b 1M	Right Cheek	1	19.5	18.83	1.17	0.06	0.467	0.54
	WLAN2.4G	802.11b 1M	Right Tilted	1	19.5	18.83	1.17	0.19	0.299	0.35
	WLAN2.4G	802.11b 1M	Left Cheek	1	19.5	18.83	1.17	-0.07	0.23	0.27
	WLAN2.4G	802.11b 1M	Left Tilted	1	19.5	18.83	1.17	-0.06	0.201	0.23
	WLAN2.4G	802.11b 1M	Right Cheek	6	19.5	18.70	1.20	-0.02	0.441	0.53
	WLAN2.4G	802.11b 1M	Right Cheek	11	19.5	18.65	1.22	0.07	0.422	0.51
20	WLAN5G	802.11ac VHT80 MCS0	Right Cheek	58	16.5	15.70	1.20	-0.04	0.347	0.42
	WLAN5G	802.11ac VHT80 MCS0	Right Tilted	58	16.5	15.70	1.20	0.09	0.224	0.27
	WLAN5G	802.11ac VHT80 MCS0	Left Cheek	58	16.5	15.70	1.20	-0.06	0.001	0.00
	WLAN5G	802.11ac VHT80 MCS0	Left Tilted	58	16.5	15.70	1.20	0.03	0.001	0.00
21	WLAN5G	802.11ac VHT80 MCS0	Right Cheek	106	16.5	15.62	1.22	-0.09	0.236	0.29
	WLAN5G	802.11ac VHT80 MCS0	Right Tilted	106	16.5	15.62	1.22	-0.13	0.001	0.00
	WLAN5G	802.11ac VHT80 MCS0	Left Cheek	106	16.5	15.62	1.22	-0.08	0.001	0.00
	WLAN5G	802.11ac VHT80 MCS0	Left Tilted	106	16.5	15.62	1.22	-0.02	0.001	0.00
	WLAN5G	802.11ac VHT80 MCS0	Right Cheek	138	16.5	15.59	1.23	-0.11	0.227	0.28
22	WLAN5G	802.11ac VHT80 MCS0	Right Cheek	155	16.5	15.77	1.18	-0.07	0.217	0.26
	WLAN5G	802.11ac VHT80 MCS0	Right Tilted	155	16.5	15.77	1.18	-0.03	0.001	0.00
	WLAN5G	802.11ac VHT80 MCS0	Left Cheek	155	16.5	15.77	1.18	0.06	0.001	0.00
	WLAN5G	802.11ac VHT80 MCS0	Left Tilted	155	16.5	15.77	1.18	-0.12	0.001	0.00

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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)
23	BT	DH1	Right Cheek	0	7.0	6.65	1.08	0.01	0.048	0.05
	BT	DH1	Right Tilted	0	7.0	6.65	1.08	-0.01	0.031	0.03
	BT	DH1	Left Cheek	0	7.0	6.65	1.08	0.03	0.024	0.03
	BT	DH1	Left Tilted	0	7.0	6.65	1.08	0.07	0.021	0.02
	BT	DH1	Right Cheek	39	7.0	6.03	1.25	-0.07	0.031	0.04
	BT	DH1	Right Cheek	78	7.0	6.39	1.15	-0.04	0.037	0.04

4.7.3 SAR Results for Body-worn Exposure Condition (Test Separation Distance is 10 mm)

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Holster	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	GSM850	GPRS8	Front Face	1	189	w/o	34.4	33.21	1.32	0.016	0.339	0.45
24	GSM850	GPRS8	Rear Face	1	189	w/o	34.4	33.21	1.32	-0.05	0.439	0.58
	GSM850	GPRS8	Front Face	0	189	1	34.4	33.21	1.32	-0.14	0.392	0.52
	GSM850	GPRS8	Rear Face	0	189	1	34.4	33.21	1.32	-0.08	0.213	0.28
	GSM850	GPRS8	Front Face	0	189	2	34.4	33.21	1.32	-0.16	0.321	0.42
	GSM850	GPRS8	Rear Face	0	189	2	34.4	33.21	1.32	-0.09	0.267	0.35
	GSM850	GPRS8	Rear Face	1	128	w/o	34.4	33.23	1.31	-0.07	0.421	0.55
	GSM850	GPRS8	Rear Face	1	251	w/o	34.4	33.27	1.30	0.11	0.417	0.54
	GSM1900	GPRS10	Front Face	1	810	w/o	28.5	28.32	1.04	-0.07	0.416	0.43
25	GSM1900	GPRS10	Rear Face	1	810	w/o	28.5	28.32	1.04	0.05	0.526	0.55
	GSM1900	GPRS10	Front Face	0	810	1	28.5	28.32	1.04	0.1	0.074	0.08
	GSM1900	GPRS10	Rear Face	0	810	1	28.5	28.32	1.04	0.04	0.055	0.06
	GSM1900	GPRS10	Front Face	0	810	2	28.5	28.32	1.04	0.08	0.271	0.28
	GSM1900	GPRS10	Rear Face	0	810	2	28.5	28.32	1.04	-0.07	0.405	0.42
	GSM1900	GPRS10	Rear Face	1	512	w/o	28.5	27.50	1.26	-0.11	0.428	0.54
	GSM1900	GPRS10	Rear Face	1	661	w/o	28.5	27.99	1.12	0.07	0.437	0.49
	WCDMA II	RMC12.2K	Front Face	1	9538	w/o	25.1	24.18	1.24	0.09	0.642	0.79
	WCDMA II	RMC12.2K	Rear Face	1	9538	w/o	25.1	24.18	1.24	-0.03	0.816	1.01
	WCDMA II	RMC12.2K	Front Face	0	9538	1	25.1	24.18	1.24	-0.12	0.202	0.25
	WCDMA II	RMC12.2K	Rear Face	0	9538	1	25.1	24.18	1.24	0.01	0.152	0.19
	WCDMA II	RMC12.2K	Front Face	0	9538	2	25.1	24.18	1.24	0.08	0.371	0.46
	WCDMA II	RMC12.2K	Rear Face	0	9538	2	25.1	24.61	1.12	-0.06	0.528	0.59
	WCDMA II	RMC12.2K	Rear Face	1	9262	w/o	25.1	24.01	1.29	0.02	0.83	1.07
26	WCDMA II	RMC12.2K	Rear Face	1	9400	w/o	25.1	24.15	1.24	-0.12	0.903	1.12
	WCDMA II	RMC12.2K	Rear Face	1	9400	w/o	25.1	24.15	1.24	0.01	0.871	1.08
	WCDMA IV	RMC12.2K	Front Face	1	1312	w/o	25.1	24.69	1.10	-0.08	0.913	1.00
	WCDMA IV	RMC12.2K	Rear Face	1	1312	w/o	25.1	24.69	1.10	0.03	1.01	1.11
	WCDMA IV	RMC12.2K	Front Face	0	1312	1	25.1	24.69	1.10	-0.03	0.179	0.20
	WCDMA IV	RMC12.2K	Rear Face	0	1312	1	25.1	24.69	1.10	0.02	0.118	0.13
	WCDMA IV	RMC12.2K	Front Face	0	1312	2	25.1	24.69	1.10	0.07	0.468	0.51
	WCDMA IV	RMC12.2K	Rear Face	0	1312	2	25.1	24.69	1.10	0.02	0.635	0.70
	WCDMA IV	RMC12.2K	Front Face	1	1413	w/o	25.1	24.62	1.12	0.02	0.866	0.97
	WCDMA IV	RMC12.2K	Front Face	1	1513	w/o	25.1	24.63	1.11	0.13	0.851	0.95
	WCDMA IV	RMC12.2K	Rear Face	1	1413	w/o	25.1	24.62	1.12	0.04	1.03	1.15
27	WCDMA IV	RMC12.2K	Rear Face	1	1513	w/o	25.1	24.63	1.11	-0.08	1.06	1.18
	WCDMA IV	RMC12.2K	Rear Face	1	1513	w/o	25.1	24.63	1.11	0.07	1.01	1.13
	WCDMA V	RMC12.2K	Front Face	1	4233	w/o	24.9	24.45	1.11	-0.01	0.41	0.45
28	WCDMA V	RMC12.2K	Rear Face	1	4233	w/o	24.9	24.45	1.11	-0.04	0.606	0.67
	WCDMA V	RMC12.2K	Front Face	0	4233	1	24.9	24.45	1.11	-0.1	0.449	0.50
	WCDMA V	RMC12.2K	Rear Face	0	4233	1	24.9	24.45	1.11	0.09	0.247	0.27
	WCDMA V	RMC12.2K	Front Face	0	4233	2	24.9	24.45	1.11	-0.04	0.397	0.44
	WCDMA V	RMC12.2K	Rear Face	0	4233	2	24.9	24.45	1.11	0.08	0.344	0.38
	WCDMA V	RMC12.2K	Rear Face	1	4132	w/o	24.9	24.04	1.22	-0.03	0.524	0.64
	WCDMA V	RMC12.2K	Rear Face	1	4182	w/o	24.9	24.16	1.19	0.01	0.518	0.61

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Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Holster	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
29	CDMA2000 BC0	RTAP 153.6	Front Face	1	777	w/o	25.4	24.40	1.26	0.06	0.485	0.61
	CDMA2000 BC0	RTAP 153.6	Rear Face	1	777	w/o	25.4	24.40	1.26	-0.04	0.609	0.77
	CDMA2000 BC0	RTAP 153.6	Front Face	0	777	1	25.4	24.40	1.26	-0.09	0.419	0.53
	CDMA2000 BC0	RTAP 153.6	Rear Face	0	777	1	25.4	24.40	1.26	0.05	0.236	0.30
	CDMA2000 BC0	RTAP 153.6	Front Face	0	777	2	25.4	24.40	1.26	-0.05	0.416	0.52
	CDMA2000 BC0	RTAP 153.6	Rear Face	0	777	2	25.4	24.40	1.26	0.04	0.396	0.50
	CDMA2000 BC0	RTAP 153.6	Rear Face	1	1013	w/o	25.4	24.32	1.28	0.07	0.574	0.74
30	CDMA2000 BC0	RTAP 153.6	Rear Face	1	384	w/o	25.4	24.39	1.26	0.11	0.592	0.75
	CDMA2000 BC1	RTAP 153.6	Front Face	1	25	w/o	24.3	23.89	1.10	-0.03	0.806	0.89
	CDMA2000 BC1	RTAP 153.6	Rear Face	1	25	w/o	24.3	23.89	1.10	0.05	1.00	1.10
	CDMA2000 BC1	RTAP 153.6	Front Face	1	600	w/o	24.3	23.78	1.13	-0.03	0.853	0.96
	CDMA2000 BC1	RTAP 153.6	Front Face	1	1175	w/o	24.3	23.84	1.11	-0.07	0.826	0.92
	CDMA2000 BC1	RTAP 153.6	Rear Face	1	600	w/o	24.3	23.78	1.13	0.13	1.04	1.17
	CDMA2000 BC1	RTAP 153.6	Rear Face	1	1175	w/o	24.3	23.84	1.11	0.07	1.07	1.19
	CDMA2000 BC1	RTAP 153.6	Front Face	0	25	1	24.3	23.89	1.10	-0.08	0.149	0.16
	CDMA2000 BC1	RTAP 153.6	Rear Face	0	25	1	24.3	23.89	1.10	0.02	0.121	0.13
	CDMA2000 BC1	RTAP 153.6	Front Face	0	25	2	24.3	23.89	1.10	0.06	0.437	0.48
	CDMA2000 BC1	RTAP 153.6	Rear Face	0	25	2	24.3	23.89	1.10	0.03	0.589	0.65
	CDMA2000 BC1	RTAP 153.6	Rear Face	1	1175	w/o	24.3	23.84	1.11	-0.04	1.01	1.12
	CDMA2000 BC10	RTAP 153.6	Front Face	1	580	w/o	25.4	24.34	1.28	0.06	0.407	0.52
	CDMA2000 BC10	RTAP 153.6	Rear Face	1	580	w/o	25.4	24.34	1.28	-0.04	0.577	0.74
31	CDMA2000 BC10	RTAP 153.6	Front Face	0	580	1	25.4	24.34	1.28	-0.11	0.454	0.58
	CDMA2000 BC10	RTAP 153.6	Rear Face	0	580	1	25.4	24.34	1.28	0.05	0.25	0.32
	CDMA2000 BC10	RTAP 153.6	Front Face	0	580	2	25.4	24.34	1.28	-0.1	0.408	0.52
	CDMA2000 BC10	RTAP 153.6	Rear Face	0	580	2	25.4	24.34	1.28	0.07	0.390	0.50
	CDMA2000 BC10	RTAP 153.6	Rear Face	1	476	w/o	25.4	24.26	1.30	-0.01	0.413	0.54
	CDMA2000 BC10	RTAP 153.6	Rear Face	1	684	w/o	25.4	24.32	1.28	-0.13	0.409	0.52
	CDMA2000 BC10	RTAP 153.6	Rear Face	1	684	w/o	25.4	24.32	1.28	-0.13	0.409	0.52

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Plot No.	Band	Mode	RB#	RB Offset	Test Position	Gap (cm)	Ch.	Holster	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	1	0	Front Face	1	18900	w/o	25.1	24.90	1.05	-0.09	0.793	0.83
	LTE 2	QPSK20M	1	0	Rear Face	1	18900	w/o	25.1	24.90	1.05	0.01	0.979	1.03
	LTE 2	QPSK20M	50	0	Front Face	1	18900	w/o	24.1	23.82	1.07	-0.13	0.648	0.69
	LTE 2	QPSK20M	50	0	Rear Face	1	18900	w/o	24.1	23.82	1.07	0.05	0.766	0.82
	LTE 2	QPSK20M	1	0	Front Face	1	18700	w/o	25.1	24.77	1.08	0.06	0.839	0.91
	LTE 2	QPSK20M	1	0	Front Face	1	19100	w/o	25.1	24.81	1.07	-0.01	0.800	0.86
32	LTE 2	QPSK20M	1	0	Rear Face	1	18700	w/o	25.1	24.77	1.08	0.03	0.987	1.06
	LTE 2	QPSK20M	1	0	Rear Face	1	19100	w/o	25.1	24.81	1.07	0.02	0.925	0.99
	LTE 2	QPSK20M	50	0	Rear Face	1	18700	w/o	24.1	23.80	1.07	0.11	0.800	0.86
	LTE 2	QPSK20M	50	0	Rear Face	1	19100	w/o	24.1	23.76	1.08	0.07	0.751	0.81
	LTE 2	QPSK20M	100	0	Front Face	1	18900	w/o	24.1	23.79	1.07	0.04	0.673	0.72
	LTE 2	QPSK20M	100	0	Rear Face	1	18900	w/o	24.1	23.79	1.07	-0.03	0.749	0.80
	LTE 2	QPSK20M	1	0	Front Face	0	18900	1	25.1	24.90	1.05	0.09	0.228	0.24
	LTE 2	QPSK20M	1	0	Rear Face	0	18900	1	25.1	24.90	1.05	-0.11	0.448	0.47
	LTE 2	QPSK20M	50	0	Front Face	0	18900	1	24.1	23.90	1.05	0.05	0.195	0.20
	LTE 2	QPSK20M	50	0	Rear Face	0	18900	1	24.1	23.90	1.05	0.07	0.386	0.40
	LTE 2	QPSK20M	1	0	Front Face	0	18900	2	25.1	24.90	1.05	0.01	0.391	0.41
	LTE 2	QPSK20M	1	0	Rear Face	0	18900	2	25.1	24.90	1.05	-0.02	0.603	0.63
	LTE 2	QPSK20M	50	0	Front Face	0	18900	2	24.1	23.90	1.05	-0.11	0.355	0.37
	LTE 2	QPSK20M	50	0	Rear Face	0	18900	2	24.1	23.90	1.05	-0.19	0.491	0.51
	LTE 2	QPSK20M	1	0	Rear Face	1	18700	w/o	25.1	24.77	1.08	0.01	0.966	1.04
	LTE 4	QPSK20M	1	0	Front Face	1	20050	w/o	25.1	24.90	1.05	0.07	0.766	0.80
33	LTE 4	QPSK20M	1	0	Rear Face	1	20050	w/o	25.1	24.90	1.05	-0.02	0.886	0.93
	LTE 4	QPSK20M	50	0	Front Face	1	20050	w/o	24.1	23.85	1.06	-0.11	0.622	0.66
	LTE 4	QPSK20M	50	0	Rear Face	1	20050	w/o	24.1	23.85	1.06	0.08	0.703	0.74
	LTE 4	QPSK20M	1	0	Front Face	1	20175	w/o	25.1	24.71	1.09	0.08	0.738	0.81
	LTE 4	QPSK20M	1	0	Front Face	1	20300	w/o	25.1	24.73	1.09	-0.03	0.752	0.82
	LTE 4	QPSK20M	1	0	Rear Face	1	20175	w/o	25.1	24.71	1.09	0.02	0.843	0.92
	LTE 4	QPSK20M	1	0	Rear Face	1	20300	w/o	25.1	24.73	1.09	-0.07	0.849	0.92
	LTE 4	QPSK20M	100	0	Front Face	1	20050	w/o	24.1	23.86	1.06	0.02	0.610	0.64
	LTE 4	QPSK20M	100	0	Rear Face	1	20050	w/o	24.1	23.86	1.06	-0.06	0.693	0.73
	LTE 4	QPSK20M	1	0	Front Face	0	20050	1	25.1	24.90	1.05	0.08	0.212	0.22
	LTE 4	QPSK20M	1	0	Rear Face	0	20050	1	25.1	24.90	1.05	-0.1	0.376	0.39
	LTE 4	QPSK20M	50	0	Front Face	0	20050	1	24.1	23.85	1.06	0.05	0.168	0.18
	LTE 4	QPSK20M	50	0	Rear Face	0	20050	1	24.1	23.85	1.06	0.07	0.300	0.32
	LTE 4	QPSK20M	1	0	Front Face	0	20050	2	25.1	24.90	1.05	0.11	0.338	0.35
	LTE 4	QPSK20M	1	0	Rear Face	0	20050	2	25.1	24.90	1.05	-0.06	0.586	0.61
	LTE 4	QPSK20M	50	0	Front Face	0	20050	2	24.1	23.85	1.06	-0.09	0.266	0.28
	LTE 4	QPSK20M	50	0	Rear Face	0	20050	2	24.1	23.85	1.06	0.16	0.466	0.49
	LTE 4	QPSK20M	1	0	Rear Face	1	20050	w/o	25.1	24.90	1.05	-0.03	0.876	0.92
	LTE 5	QPSK10M	1	0	Front Face	1	20600	w/o	24.7	23.99	1.18	0.03	0.371	0.44
34	LTE 5	QPSK10M	1	0	Rear Face	1	20600	w/o	24.7	23.99	1.18	-0.01	0.469	0.55
	LTE 5	QPSK10M	25	0	Front Face	1	20600	w/o	23.7	23.00	1.17	-0.03	0.308	0.36
	LTE 5	QPSK10M	25	0	Rear Face	1	20600	w/o	23.7	23.00	1.17	-0.03	0.414	0.49
	LTE 5	QPSK10M	1	0	Front Face	0	20600	1	24.7	23.99	1.18	-0.08	0.308	0.36
	LTE 5	QPSK10M	1	0	Rear Face	0	20600	1	24.7	23.99	1.18	0.03	0.283	0.33
	LTE 5	QPSK10M	25	0	Front Face	0	20600	1	23.7	23.00	1.17	-0.16	0.227	0.27
	LTE 5	QPSK10M	25	0	Rear Face	0	20600	1	23.7	23.00	1.17	-0.08	0.236	0.28
	LTE 5	QPSK10M	1	0	Front Face	0	20600	2	24.7	23.99	1.18	-0.03	0.277	0.33
	LTE 5	QPSK10M	1	0	Rear Face	0	20600	2	24.7	23.99	1.18	0.05	0.229	0.27
	LTE 5	QPSK10M	25	0	Front Face	0	20600	2	23.7	23.00	1.17	0.13	0.228	0.27
	LTE 5	QPSK10M	25	0	Rear Face	0	20600	2	23.7	23.00	1.17	-0.07	0.187	0.22
	LTE 5	QPSK10M	1	0	Rear Face	1	20450	w/o	24.7	23.73	1.25	0.16	0.418	0.52
	LTE 5	QPSK10M	1	49	Rear Face	1	20525	w/o	24.7	23.89	1.21	0.11	0.441	0.53

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Plot No.	Band	Mode	RB#	RB Offset	Test Position	Gap (cm)	Ch.	Holster	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 7	QPSK20M	1	0	Front Face	1	21100	w/o	24.4	23.75	1.16	0.06	0.468	0.54
	LTE 7	QPSK20M	1	0	Rear Face	1	21100	w/o	24.4	23.75	1.16	0.03	0.705	0.82
	LTE 7	QPSK20M	50	0	Front Face	1	21100	w/o	23.4	22.91	1.12	0.05	0.369	0.41
	LTE 7	QPSK20M	50	0	Rear Face	1	21100	w/o	23.4	22.91	1.12	-0.12	0.594	0.66
	LTE 7	QPSK20M	1	99	Rear Face	1	20850	w/o	24.4	23.63	1.19	0.05	0.663	0.79
35	LTE 7	QPSK20M	1	0	Rear Face	1	21350	w/o	24.4	23.59	1.21	-0.09	0.745	0.90
	LTE 7	QPSK20M	100	0	Rear Face	1	21100	w/o	23.4	22.82	1.14	-0.08	0.409	0.47
	LTE 7	QPSK20M	1	0	Front Face	0	21100	1	24.4	23.75	1.16	0.09	0.103	0.12
	LTE 7	QPSK20M	1	0	Rear Face	0	21100	1	24.4	23.75	1.16	0.12	0.142	0.16
	LTE 7	QPSK20M	50	0	Front Face	0	21100	1	23.4	22.91	1.12	0.04	0.093	0.10
	LTE 7	QPSK20M	50	0	Rear Face	0	21100	1	23.4	22.91	1.12	0.06	0.122	0.14
	LTE 7	QPSK20M	1	0	Front Face	0	21100	2	24.4	23.75	1.16	-0.02	0.362	0.42
	LTE 7	QPSK20M	1	0	Rear Face	0	21100	2	24.4	23.75	1.16	-0.05	0.379	0.44
	LTE 7	QPSK20M	50	0	Front Face	0	21100	2	23.4	22.91	1.12	0.06	0.294	0.33
	LTE 7	QPSK20M	50	0	Rear Face	0	21100	2	23.4	22.91	1.12	-0.12	0.315	0.35
	LTE 12	QPSK10M	1	0	Front Face	1	23060	w/o	24.9	23.81	1.29	0.06	0.342	0.44
36	LTE 12	QPSK10M	1	0	Rear Face	1	23060	w/o	24.9	23.81	1.29	-0.01	0.410	0.53
	LTE 12	QPSK10M	25	12	Front Face	1	23060	w/o	23.9	22.93	1.25	-0.06	0.237	0.30
	LTE 12	QPSK10M	25	12	Rear Face	1	23060	w/o	23.9	22.93	1.25	-0.02	0.311	0.39
	LTE 12	QPSK10M	1	0	Front Face	0	23060	1	24.9	23.81	1.29	0.15	0.322	0.41
	LTE 12	QPSK10M	1	0	Rear Face	0	23060	1	24.9	23.81	1.29	-0.07	0.340	0.44
	LTE 12	QPSK10M	25	12	Front Face	0	23060	1	23.9	22.93	1.25	-0.13	0.291	0.36
	LTE 12	QPSK10M	25	12	Rear Face	0	23060	1	23.9	22.93	1.25	0.06	0.304	0.38
	LTE 12	QPSK10M	1	0	Front Face	0	23060	2	24.9	23.81	1.29	0.03	0.352	0.45
	LTE 12	QPSK10M	1	0	Rear Face	0	23060	2	24.9	23.81	1.29	-0.03	0.359	0.46
	LTE 12	QPSK10M	25	12	Front Face	0	23060	2	23.9	22.93	1.25	0.08	0.304	0.38
	LTE 12	QPSK10M	25	12	Rear Face	0	23060	2	23.9	22.93	1.25	0.12	0.308	0.39
	LTE 12	QPSK10M	1	24	Rear Face	1	23095	w/o	24.9	23.73	1.31	0.13	0.376	0.49
	LTE 12	QPSK10M	1	49	Rear Face	1	23130	w/o	24.9	23.70	1.32	0.11	0.364	0.48
	LTE 13	QPSK10M	1	0	Front Face	1	23230	w/o	24.9	23.95	1.24	0.06	0.376	0.47
37	LTE 13	QPSK10M	1	0	Rear Face	1	23230	w/o	24.9	23.95	1.24	-0.01	0.468	0.58
	LTE 13	QPSK10M	1	0	Front Face	0	23230	1	24.9	23.95	1.24	-0.02	0.424	0.53
	LTE 13	QPSK10M	1	0	Rear Face	0	23230	1	24.9	23.95	1.24	-0.06	0.452	0.56
	LTE 13	QPSK10M	25	25	Front Face	0	23230	1	23.9	22.85	1.27	0.13	0.348	0.44
	LTE 13	QPSK10M	25	25	Rear Face	0	23230	1	23.9	22.85	1.27	0.06	0.362	0.46
	LTE 13	QPSK10M	1	0	Front Face	0	23230	2	24.9	23.95	1.24	0.06	0.353	0.44
	LTE 13	QPSK10M	1	0	Rear Face	0	23230	2	24.9	23.95	1.24	-0.07	0.373	0.46
	LTE 13	QPSK10M	25	25	Front Face	0	23230	2	23.9	22.85	1.27	0.03	0.304	0.39
	LTE 13	QPSK10M	25	25	Rear Face	0	23230	2	23.9	22.85	1.27	-0.04	0.288	0.37
	LTE 13	QPSK10M	25	25	Front Face	1	23230	w/o	23.9	22.85	1.27	0.04	0.300	0.38
	LTE 13	QPSK10M	25	25	Rear Face	1	23230	w/o	23.9	22.85	1.27	-0.13	0.386	0.49
	LTE 25	QPSK20M	1	0	Front Face	1	26140	w/o	24.0	23.55	1.11	0.01	0.668	0.74
38	LTE 25	QPSK20M	1	0	Rear Face	1	26140	w/o	24.0	23.55	1.11	-0.03	0.78	0.87
	LTE 25	QPSK20M	50	0	Front Face	1	26140	w/o	23.0	22.38	1.15	-0.17	0.544	0.63
	LTE 25	QPSK20M	50	0	Rear Face	1	26140	w/o	23.0	22.38	1.15	-0.06	0.626	0.72
	LTE 25	QPSK20M	1	0	Rear Face	1	26365	w/o	24.0	23.23	1.19	-0.03	0.723	0.86
	LTE 25	QPSK20M	1	0	Rear Face	1	26590	w/o	24.0	23.22	1.20	-0.17	0.711	0.85
	LTE 25	QPSK20M	100	0	Rear Face	1	26140	w/o	23.0	22.32	1.17	0.11	0.534	0.62
	LTE 25	QPSK20M	1	0	Front Face	0	26140	1	24.0	23.55	1.11	0.01	0.097	0.11
	LTE 25	QPSK20M	1	0	Rear Face	0	26140	1	24.0	23.55	1.11	-0.1	0.231	0.26
	LTE 25	QPSK20M	50	0	Front Face	0	26140	1	23.0	22.38	1.15	-0.09	0.037	0.04
	LTE 25	QPSK20M	50	0	Rear Face	0	26140	1	23.0	22.38	1.15	0.15	0.176	0.20
	LTE 25	QPSK20M	1	0	Front Face	0	26140	2	24.0	23.55	1.11	0.11	0.405	0.45
	LTE 25	QPSK20M	1	0	Rear Face	0	26140	2	24.0	23.55	1.11	-0.02	0.510	0.57
	LTE 25	QPSK20M	50	0	Front Face	0	26140	2	23.0	22.38	1.15	-0.09	0.322	0.37
	LTE 25	QPSK20M	50	0	Rear Face	0	26140	2	23.0	22.38	1.15	0.18	0.418	0.48

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Plot No.	Band	Mode	RB#	RB Offset	Test Position	Gap (cm)	Ch.	Holster	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
39	LTE 26	QPSK15M	1	0	Front Face	1	26965	w/o	24.6	23.94	1.16	0.05	0.336	0.39
	LTE 26	QPSK15M	1	0	Rear Face	1	26965	w/o	24.6	23.94	1.16	-0.02	0.436	0.51
	LTE 26	QPSK15M	36	0	Front Face	1	26965	w/o	23.6	22.95	1.16	0.15	0.285	0.33
	LTE 26	QPSK15M	36	0	Rear Face	1	26965	w/o	23.6	22.95	1.16	0.06	0.372	0.43
	LTE 26	QPSK15M	1	0	Front Face	0	26965	1	24.6	23.94	1.16	-0.06	0.262	0.31
	LTE 26	QPSK15M	1	0	Rear Face	0	26965	1	24.6	23.94	1.16	-0.09	0.256	0.30
	LTE 26	QPSK15M	36	0	Front Face	0	26965	1	23.6	22.95	1.16	0.02	0.219	0.25
	LTE 26	QPSK15M	36	0	Rear Face	0	26965	1	23.6	22.95	1.16	0.13	0.216	0.25
	LTE 26	QPSK15M	1	0	Front Face	0	26965	2	24.6	23.94	1.16	0	0.271	0.32
	LTE 26	QPSK15M	1	0	Rear Face	0	26965	2	24.6	23.94	1.16	-0.02	0.231	0.27
	LTE 26	QPSK15M	36	0	Front Face	0	26965	2	23.6	22.95	1.16	0.06	0.225	0.26
	LTE 26	QPSK15M	36	0	Rear Face	0	26965	2	23.6	22.95	1.16	0.04	0.185	0.21
	LTE 26	QPSK15M	1	0	Rear Face	1	26765	w/o	24.6	23.82	1.20	0.07	0.411	0.49
	LTE 26	QPSK15M	1	37	Rear Face	1	26865	w/o	24.6	23.93	1.17	0.11	0.415	0.48
40	LTE 38	QPSK20M	1	0	Front Face	1	38000	w/o	24.5	23.84	1.16	0.08	0.248	0.29
	LTE 38	QPSK20M	1	0	Rear Face	1	38000	w/o	24.5	23.84	1.16	0.16	0.397	0.46
	LTE 38	QPSK20M	50	0	Front Face	1	38000	w/o	23.5	22.98	1.13	0.06	0.204	0.23
	LTE 38	QPSK20M	50	0	Rear Face	1	38000	w/o	23.5	22.98	1.13	-0.07	0.319	0.36
	LTE 38	QPSK20M	1	0	Front Face	0	38000	1	24.5	23.84	1.16	-0.12	0.087	0.10
	LTE 38	QPSK20M	1	0	Rear Face	0	38000	1	24.5	23.84	1.16	0.05	0.097	0.11
	LTE 38	QPSK20M	50	0	Front Face	0	38000	1	23.5	22.98	1.13	0.03	0.073	0.08
	LTE 38	QPSK20M	50	0	Rear Face	0	38000	1	23.5	22.98	1.13	-0.08	0.079	0.09
	LTE 38	QPSK20M	1	0	Front Face	0	38000	2	24.5	23.84	1.16	-0.13	0.238	0.28
	LTE 38	QPSK20M	1	0	Rear Face	0	38000	2	24.5	23.84	1.16	0.02	0.252	0.29
	LTE 38	QPSK20M	50	0	Front Face	0	38000	2	23.5	22.98	1.13	0.02	0.200	0.23
	LTE 38	QPSK20M	50	0	Rear Face	0	38000	2	23.5	22.98	1.13	-0.09	0.212	0.24
	LTE 38	QPSK20M	1	0	Rear Face	1	37850	w/o	24.5	23.66	1.21	-0.08	0.367	0.45
	LTE 38	QPSK20M	1	0	Rear Face	1	38150	w/o	24.5	23.76	1.19	0.07	0.381	0.45
41	LTE 41	QPSK20M	1	0	Front Face	1	39750	w/o	24.4	23.86	1.13	0.03	0.272	0.31
	LTE 41	QPSK20M	1	0	Rear Face	1	39750	w/o	24.4	23.86	1.13	0.05	0.405	0.46
	LTE 41	QPSK20M	50	0	Front Face	1	39750	w/o	23.4	22.99	1.10	-0.05	0.229	0.25
	LTE 41	QPSK20M	50	0	Rear Face	1	39750	w/o	23.4	22.99	1.10	0.04	0.321	0.35
	LTE 41	QPSK20M	1	0	Front Face	0	39750	1	24.4	23.86	1.13	-0.06	0.042	0.05
	LTE 41	QPSK20M	1	0	Rear Face	0	39750	1	24.4	23.86	1.13	-0.13	0.070	0.08
	LTE 41	QPSK20M	50	0	Front Face	0	39750	1	23.4	22.99	1.10	0.06	0.001	0.00
	LTE 41	QPSK20M	50	0	Rear Face	0	39750	1	23.4	22.99	1.10	0.05	0.054	0.06
	LTE 41	QPSK20M	1	0	Front Face	0	39750	2	24.4	23.86	1.13	0.01	0.119	0.13
	LTE 41	QPSK20M	1	0	Rear Face	0	39750	2	24.4	23.86	1.13	-0.08	0.134	0.15
	LTE 41	QPSK20M	50	0	Front Face	0	39750	2	23.4	22.99	1.10	-0.13	0.097	0.11
	LTE 41	QPSK20M	50	0	Rear Face	0	39750	2	23.4	22.99	1.10	0.05	0.109	0.12
	LTE 41	QPSK20M	1	50	Rear Face	1	40185	w/o	24.4	23.80	1.15	-0.07	0.381	0.44
	LTE 41	QPSK20M	1	50	Rear Face	1	40620	w/o	24.4	23.83	1.14	0.13	0.377	0.43
	LTE 41	QPSK20M	1	99	Rear Face	1	41055	w/o	24.4	23.65	1.19	0.04	0.382	0.45
	LTE 41	QPSK20M	1	0	Rear Face	1	41490	w/o	24.4	23.56	1.21	-0.04	0.364	0.44

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lot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Holster	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b_1M	Front Face	1	1	w/o	19.5	18.83	1.17	0.07	0.147	0.17
42	WLAN2.4G	802.11b_1M	Rear Face	1	1	w/o	19.5	18.83	1.17	0.09	0.162	0.19
	WLAN2.4G	802.11b_1M	Front Face	0	1	1	19.5	18.83	1.17	0.07	0.087	0.10
	WLAN2.4G	802.11b_1M	Rear Face	0	1	1	19.5	18.83	1.17	-0.13	0.106	0.12
	WLAN2.4G	802.11b_1M	Front Face	0	1	2	19.5	18.83	1.17	0.03	0.093	0.11
	WLAN2.4G	802.11b_1M	Rear Face	0	1	2	19.5	18.83	1.17	-0.05	0.105	0.12
	WLAN2.4G	802.11b_1M	Rear Face	1	6	w/o	19.5	18.70	1.20	0.13	0.145	0.17
	WLAN2.4G	802.11b_1M	Rear Face	1	11	w/o	19.5	18.65	1.22	0.08	0.131	0.16
	WLAN5G	802.11ac VHT80_MCS0	Front Face	1	58	w/o	16.5	15.70	1.20	0.03	0.001	0.00
43	WLAN5G	802.11ac VHT80_MCS0	Rear Face	1	58	w/o	16.5	15.70	1.20	0.07	0.242	0.29
	WLAN5G	802.11ac VHT80_MCS0	Front Face	0	58	1	16.5	15.70	1.20	-0.1	0.014	0.02
	WLAN5G	802.11ac VHT80_MCS0	Rear Face	0	58	1	16.5	15.70	1.20	-0.01	0.001	0.00
	WLAN5G	802.11ac VHT80_MCS0	Front Face	0	58	2	16.5	15.70	1.20	-0.01	0.072	0.09
	WLAN5G	802.11ac VHT80_MCS0	Rear Face	0	58	2	16.5	15.70	1.20	-0.06	0.001	0.00
	WLAN5G	802.11ac VHT80_MCS0	Front Face	1	106	w/o	16.5	15.62	1.22	0.06	0.001	0.00
44	WLAN5G	802.11ac VHT80_MCS0	Rear Face	1	106	w/o	16.5	15.62	1.22	0.19	0.078	0.10
	WLAN5G	802.11ac VHT80_MCS0	Front Face	0	106	1	16.5	15.62	1.22	-0.03	0.02	0.02
	WLAN5G	802.11ac VHT80_MCS0	Rear Face	0	106	1	16.5	15.62	1.22	0.05	0.001	0.00
	WLAN5G	802.11ac VHT80_MCS0	Front Face	0	106	2	16.5	15.62	1.22	0.05	0.001	0.00
	WLAN5G	802.11ac VHT80_MCS0	Rear Face	0	106	2	16.5	15.62	1.22	0.19	0.036	0.04
	WLAN5G	802.11ac VHT80_MCS0	Rear Face	1	138	w/o	16.5	15.59	1.23	-0.08	0.063	0.08
	WLAN5G	802.11ac VHT80_MCS0	Front Face	1	155	w/o	16.5	15.77	1.18	0.09	0.001	0.00
	WLAN5G	802.11ac VHT80_MCS0	Rear Face	1	155	w/o	16.5	15.77	1.18	-0.11	0.001	0.00
	WLAN5G	802.11ac VHT80_MCS0	Front Face	0	155	1	16.5	15.77	1.18	0.02	0.014	0.02
	WLAN5G	802.11ac VHT80_MCS0	Rear Face	0	155	1	16.5	15.77	1.18	-0.06	0.001	0.00
45	WLAN5G	802.11ac VHT80_MCS0	Front Face	0	155	2	16.5	15.77	1.18	0.05	0.046	0.05
	WLAN5G	802.11ac VHT80_MCS0	Rear Face	0	155	2	16.5	15.77	1.18	0.03	0.001	0.00

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Holster	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	BT	DH1	Front Face	1	0	w/o	7.0	6.65	1.08	0	0	0.00
	BT	DH1	Rear Face	1	0	w/o	7.0	6.65	1.08	0.07	0.000119	0.00
	BT	DH1	Front Face	0	0	1	7.0	6.65	1.08	0	0	0.00
	BT	DH1	Rear Face	0	0	1	7.0	6.65	1.08	-0.17	0.0000247	0.00
	BT	DH1	Front Face	0	0	2	7.0	6.65	1.08	0	0	0.00
46	BT	DH1	Rear Face	0	0	2	7.0	6.65	1.08	0.17	0.000645	0.00
	BT	DH1	Rear Face	0	39	2	7.0	6.03	1.25	-0.08	0.000184	0.00
	BT	DH1	Rear Face	0	78	2	7.0	6.39	1.15	-0.17	0.000122	0.00

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4.7.4 SAR Results for Hotspot Exposure Condition (Test Separation Distance is 10 mm)

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)
24	GSM850	GPRS8	Front Face	189	34.4	33.21	1.32	0.016	0.339	0.45
	GSM850	GPRS8	Rear Face	189	34.4	33.21	1.32	-0.05	0.439	0.58
	GSM850	GPRS8	Left Side	189	34.4	33.21	1.32	-0.05	0.095	0.12
	GSM850	GPRS8	Right Side	189	34.4	33.21	1.32	0.06	0.189	0.25
	GSM850	GPRS8	Bottom Side	189	34.4	33.21	1.32	-0.13	0.218	0.29
	GSM850	GPRS8	Rear Face	128	34.4	33.23	1.31	-0.07	0.421	0.55
	GSM850	GPRS8	Rear Face	251	34.4	33.27	1.30	0.11	0.417	0.54
25	GSM1900	GPRS10	Front Face	810	28.5	28.32	1.04	-0.07	0.416	0.43
	GSM1900	GPRS10	Rear Face	810	28.5	28.32	1.04	0.05	0.526	0.55
	GSM1900	GPRS10	Left Side	810	28.5	28.32	1.04	0.06	0.094	0.10
	GSM1900	GPRS10	Right Side	810	28.5	28.32	1.04	0	0.001	0.00
	GSM1900	GPRS10	Bottom Side	810	28.5	28.32	1.04	0.01	0.362	0.38
	GSM1900	GPRS10	Rear Face	512	28.5	27.50	1.26	-0.11	0.428	0.54
	GSM1900	GPRS10	Rear Face	661	28.5	27.99	1.12	0.07	0.437	0.49
26	WCDMA II	RMC12.2K	Front Face	9538	25.1	24.18	1.24	0.09	0.642	0.79
	WCDMA II	RMC12.2K	Rear Face	9538	25.1	24.18	1.24	-0.03	0.816	1.01
	WCDMA II	RMC12.2K	Left Side	9538	25.1	24.18	1.24	0.01	0.176	0.22
	WCDMA II	RMC12.2K	Right Side	9538	25.1	24.18	1.24	0.05	0.037	0.05
	WCDMA II	RMC12.2K	Bottom Side	9538	25.1	24.18	1.24	-0.04	0.79	0.98
	WCDMA II	RMC12.2K	Rear Face	9262	25.1	24.01	1.29	0.02	0.83	1.07
27	WCDMA II	RMC12.2K	Rear Face	9400	25.1	24.15	1.24	-0.12	0.903	1.12
	WCDMA II	RMC12.2K	Bottom Side	9262	25.1	24.01	1.29	-0.09	0.715	0.92
	WCDMA II	RMC12.2K	Bottom Side	9400	25.1	24.15	1.24	0.02	0.859	1.07
	WCDMA II	RMC12.2K	Rear Face	9400	25.1	24.15	1.24	0.01	0.871	1.08
	WCDMA IV	RMC12.2K	Front Face	1312	25.1	24.69	1.10	-0.08	0.913	1.00
	WCDMA IV	RMC12.2K	Rear Face	1312	25.1	24.69	1.10	0.03	1.01	1.11
28	WCDMA IV	RMC12.2K	Left Side	1312	25.1	24.69	1.10	0.01	0.051	0.06
	WCDMA IV	RMC12.2K	Right Side	1312	25.1	24.69	1.10	0	0.001	0.00
	WCDMA IV	RMC12.2K	Bottom Side	1312	25.1	24.69	1.10	-0.09	0.608	0.67
	WCDMA IV	RMC12.2K	Front Face	1413	25.1	24.62	1.12	0.02	0.866	0.97
	WCDMA IV	RMC12.2K	Front Face	1513	25.1	24.63	1.11	0.13	0.851	0.95
	WCDMA IV	RMC12.2K	Rear Face	1413	25.1	24.62	1.12	0.04	1.03	1.15
29	WCDMA IV	RMC12.2K	Rear Face	1513	25.1	24.63	1.11	-0.08	1.06	1.18
	WCDMA IV	RMC12.2K	Rear Face	1513	25.1	24.63	1.11	0.07	1.01	1.13
	WCDMA V	RMC12.2K	Front Face	4233	24.9	24.45	1.11	-0.01	0.41	0.45
	WCDMA V	RMC12.2K	Rear Face	4233	24.9	24.45	1.11	-0.04	0.606	0.67
	WCDMA V	RMC12.2K	Left Side	4233	24.9	24.45	1.11	-0.12	0.109	0.12
	WCDMA V	RMC12.2K	Right Side	4233	24.9	24.45	1.11	0.03	0.222	0.25
30	WCDMA V	RMC12.2K	Bottom Side	4233	24.9	24.45	1.11	0.08	0.147	0.16
	WCDMA V	RMC12.2K	Rear Face	4132	24.9	24.04	1.22	-0.03	0.524	0.64
	WCDMA V	RMC12.2K	Rear Face	4182	24.9	24.16	1.19	0.01	0.518	0.61

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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)
29	CDMA2000 BC0	RTAP 153.6	Front Face	777	25.4	24.40	1.26	0.06	0.485	0.61
	CDMA2000 BC0	RTAP 153.6	Rear Face	777	25.4	24.40	1.26	-0.04	0.609	0.77
	CDMA2000 BC0	RTAP 153.6	Left Side	777	25.4	24.40	1.26	-0.12	0.222	0.28
	CDMA2000 BC0	RTAP 153.6	Right Side	777	25.4	24.40	1.26	-0.04	0.388	0.49
	CDMA2000 BC0	RTAP 153.6	Bottom Side	777	25.4	24.40	1.26	0.09	0.184	0.23
	CDMA2000 BC0	RTAP 153.6	Rear Face	1013	25.4	24.32	1.28	0.07	0.574	0.74
	CDMA2000 BC0	RTAP 153.6	Rear Face	384	25.4	24.39	1.26	0.11	0.592	0.75
	CDMA2000 BC1	RTAP 153.6	Front Face	25	24.3	23.89	1.10	-0.03	0.806	0.89
	CDMA2000 BC1	RTAP 153.6	Rear Face	25	24.3	23.89	1.10	0.05	1.00	1.10
	CDMA2000 BC1	RTAP 153.6	Left Side	25	24.3	23.89	1.10	0.01	0.321	0.35
	CDMA2000 BC1	RTAP 153.6	Right Side	25	24.3	23.89	1.10	0.03	0.001	0.00
	CDMA2000 BC1	RTAP 153.6	Bottom Side	25	24.3	23.89	1.10	0.05	0.718	0.79
	CDMA2000 BC1	RTAP 153.6	Front Face	600	24.3	23.78	1.13	-0.03	0.853	0.96
	CDMA2000 BC1	RTAP 153.6	Front Face	1175	24.3	23.84	1.11	-0.07	0.826	0.92
	CDMA2000 BC1	RTAP 153.6	Rear Face	600	24.3	23.78	1.13	0.13	1.04	1.17
	CDMA2000 BC1	RTAP 153.6	Rear Face	1175	24.3	23.84	1.11	0.07	1.07	1.19
	CDMA2000 BC1	RTAP 153.6	Rear Face	1175	24.3	23.84	1.11	-0.04	1.01	1.11
31	CDMA2000 BC10	RTAP 153.6	Front Face	580	25.4	24.34	1.28	0.06	0.407	0.52
	CDMA2000 BC10	RTAP 153.6	Rear Face	580	25.4	24.34	1.28	-0.04	0.577	0.74
	CDMA2000 BC10	RTAP 153.6	Left Side	580	25.4	24.34	1.28	-0.13	0.136	0.17
	CDMA2000 BC10	RTAP 153.6	Right Side	580	25.4	24.34	1.28	-0.14	0.148	0.19
	CDMA2000 BC10	RTAP 153.6	Bottom Side	580	25.4	24.34	1.28	0.18	0.114	0.15
	CDMA2000 BC10	RTAP 153.6	Rear Face	476	25.4	24.26	1.30	-0.01	0.413	0.54
	CDMA2000 BC10	RTAP 153.6	Rear Face	684	25.4	24.32	1.28	-0.13	0.409	0.52

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Plot No.	Band	Mode	RB#	RB Offset	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)
	LTE 2	QPSK20M	1	0	Front Face	18900	25.1	24.90	1.05	-0.09	0.793	0.83
	LTE 2	QPSK20M	1	0	Rear Face	18900	25.1	24.90	1.05	0.01	0.979	1.03
	LTE 2	QPSK20M	1	0	Left Side	18900	25.1	24.90	1.05	0.03	0.569	0.60
	LTE 2	QPSK20M	1	0	Right Side	18900	25.1	24.90	1.05	-0.05	0.106	0.11
	LTE 2	QPSK20M	1	0	Bottom Side	18900	25.1	24.90	1.05	0.07	0.754	0.79
	LTE 2	QPSK20M	50	0	Front Face	18900	24.1	23.82	1.07	-0.13	0.648	0.69
	LTE 2	QPSK20M	50	0	Rear Face	18900	24.1	23.82	1.07	0.05	0.766	0.82
	LTE 2	QPSK20M	50	0	Left Side	18900	24.1	23.82	1.07	-0.03	0.479	0.51
	LTE 2	QPSK20M	50	0	Right Side	18900	24.1	23.82	1.07	0.13	0.071	0.08
	LTE 2	QPSK20M	50	0	Bottom Side	18900	24.1	23.82	1.07	0.07	0.534	0.57
	LTE 2	QPSK20M	1	0	Front Face	18700	25.1	24.77	1.08	0.06	0.839	0.91
	LTE 2	QPSK20M	1	0	Front Face	19100	25.1	24.81	1.07	-0.01	0.800	0.86
32	LTE 2	QPSK20M	1	0	Rear Face	18700	25.1	24.77	1.08	0.03	0.987	1.06
	LTE 2	QPSK20M	1	0	Rear Face	19100	25.1	24.81	1.07	0.02	0.925	0.99
	LTE 2	QPSK20M	50	0	Rear Face	18700	24.1	23.80	1.07	0.11	0.800	0.86
	LTE 2	QPSK20M	50	0	Rear Face	19100	24.1	23.76	1.08	0.07	0.751	0.81
	LTE 2	QPSK20M	100	0	Front Face	18900	24.1	23.79	1.07	0.04	0.673	0.72
	LTE 2	QPSK20M	100	0	Rear Face	18900	24.1	23.79	1.07	-0.03	0.749	0.80
	LTE 2	QPSK20M	1	0	Rear Face	18700	25.1	24.77	1.08	0.01	0.966	1.04
	LTE 4	QPSK20M	1	0	Front Face	20050	25.1	24.90	1.05	0.07	0.766	0.80
33	LTE 4	QPSK20M	1	0	Rear Face	20050	25.1	24.90	1.05	-0.02	0.886	0.93
	LTE 4	QPSK20M	1	0	Left Side	20050	25.1	24.90	1.05	-0.09	0.288	0.30
	LTE 4	QPSK20M	1	0	Right Side	20050	25.1	24.90	1.05	0.02	0.041	0.04
	LTE 4	QPSK20M	1	0	Bottom Side	20050	25.1	24.90	1.05	0.03	0.540	0.57
	LTE 4	QPSK20M	50	0	Front Face	20050	24.1	23.85	1.06	-0.11	0.622	0.66
	LTE 4	QPSK20M	50	0	Rear Face	20050	24.1	23.85	1.06	0.08	0.703	0.74
	LTE 4	QPSK20M	50	0	Left Side	20050	24.1	23.85	1.06	-0.03	0.211	0.22
	LTE 4	QPSK20M	50	0	Right Side	20050	24.1	23.85	1.06	-0.08	0.078	0.08
	LTE 4	QPSK20M	50	0	Bottom Side	20050	24.1	23.85	1.06	0.13	0.398	0.42
	LTE 4	QPSK20M	1	0	Front Face	20175	25.1	24.71	1.09	0.08	0.738	0.81
	LTE 4	QPSK20M	1	0	Front Face	20300	25.1	24.73	1.09	-0.03	0.752	0.82
	LTE 4	QPSK20M	1	0	Rear Face	20175	25.1	24.71	1.09	0.02	0.843	0.92
	LTE 4	QPSK20M	1	0	Rear Face	20300	25.1	24.73	1.09	-0.07	0.849	0.92
	LTE 4	QPSK20M	100	0	Front Face	20050	24.1	23.86	1.06	0.02	0.610	0.64
	LTE 4	QPSK20M	100	0	Rear Face	20050	24.1	23.86	1.06	-0.06	0.693	0.73
	LTE 4	QPSK20M	1	0	Rear Face	20050	25.1	24.90	1.05	-0.03	0.876	0.92
	LTE 5	QPSK10M	1	0	Front Face	20600	24.7	23.99	1.18	0.03	0.371	0.44
34	LTE 5	QPSK10M	1	0	Rear Face	20600	24.7	23.99	1.18	-0.01	0.469	0.55
	LTE 5	QPSK10M	1	0	Left Side	20600	24.7	23.99	1.18	-0.13	0.170	0.20
	LTE 5	QPSK10M	1	0	Right Side	20600	24.7	23.99	1.18	0.09	0.187	0.22
	LTE 5	QPSK10M	1	0	Bottom Side	20600	24.7	23.99	1.18	0.03	0.141	0.17
	LTE 5	QPSK10M	25	0	Front Face	20600	23.7	23.00	1.17	-0.03	0.308	0.36
	LTE 5	QPSK10M	25	0	Rear Face	20600	23.7	23.00	1.17	-0.03	0.414	0.49
	LTE 5	QPSK10M	25	0	Left Side	20600	23.7	23.00	1.17	-0.08	0.125	0.15
	LTE 5	QPSK10M	25	0	Right Side	20600	23.7	23.00	1.17	-0.12	0.099	0.12
	LTE 5	QPSK10M	25	0	Bottom Side	20600	23.7	23.00	1.17	0.02	0.113	0.13
	LTE 5	QPSK10M	1	0	Rear Face	20450	24.7	23.73	1.25	0.16	0.418	0.52
	LTE 5	QPSK10M	1	49	Rear Face	20525	24.7	23.89	1.21	0.11	0.441	0.53

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Plot No.	Band	Mode	RB#	RB Offset	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)
	LTE 7	QPSK20M	1	0	Front Face	21100	24.4	23.75	1.16	0.06	0.468	0.54
	LTE 7	QPSK20M	1	0	Rear Face	21100	24.4	23.75	1.16	0.03	0.705	0.82
	LTE 7	QPSK20M	1	0	Left Side	21100	24.4	23.75	1.16	-0.12	0.243	0.28
	LTE 7	QPSK20M	1	0	Right Side	21100	24.4	23.75	1.16	-0.07	0.088	0.10
	LTE 7	QPSK20M	1	0	Bottom Side	21100	24.4	23.75	1.16	-0.03	0.791	0.92
	LTE 7	QPSK20M	50	0	Front Face	21100	23.4	22.91	1.12	0.05	0.369	0.41
	LTE 7	QPSK20M	50	0	Rear Face	21100	23.4	22.91	1.12	-0.12	0.594	0.66
	LTE 7	QPSK20M	50	0	Left Side	21100	23.4	22.91	1.12	0.19	0.184	0.21
	LTE 7	QPSK20M	50	0	Right Side	21100	23.4	22.91	1.12	-0.02	0.099	0.11
	LTE 7	QPSK20M	50	0	Bottom Side	21100	23.4	22.91	1.12	0.03	0.651	0.73
	LTE 7	QPSK20M	1	99	Rear Face	20850	24.4	23.63	1.19	0.05	0.663	0.79
	LTE 7	QPSK20M	1	0	Rear Face	21350	24.4	23.59	1.21	-0.09	0.745	0.90
	LTE 7	QPSK20M	1	99	Bottom Side	20850	24.4	23.63	1.19	-0.12	0.762	0.91
47	LTE 7	QPSK20M	1	0	Bottom Side	21350	24.4	23.59	1.21	-0.03	0.861	1.04
	LTE 7	QPSK20M	100	0	Rear Face	21100	23.4	22.82	1.14	-0.08	0.409	0.47
	LTE 7	QPSK20M	100	0	Bottom Side	21100	23.4	22.82	1.14	-0.06	0.583	0.67
	LTE 7	QPSK20M	1	0	Bottom Side	21350	24.4	23.59	1.21	-0.08	0.851	1.03
	LTE 12	QPSK10M	1	0	Front Face	23060	24.9	23.81	1.29	0.06	0.342	0.44
36	LTE 12	QPSK10M	1	0	Rear Face	23060	24.9	23.81	1.29	-0.01	0.410	0.53
	LTE 12	QPSK10M	1	0	Left Side	23060	24.9	23.81	1.29	-0.11	0.085	0.11
	LTE 12	QPSK10M	1	0	Right Side	23060	24.9	23.81	1.29	0.05	0.099	0.13
	LTE 12	QPSK10M	1	0	Bottom Side	23060	24.9	23.81	1.29	-0.12	0.066	0.08
	LTE 12	QPSK10M	25	12	Front Face	23060	23.9	22.93	1.25	-0.06	0.237	0.30
	LTE 12	QPSK10M	25	12	Rear Face	23060	23.9	22.93	1.25	-0.02	0.311	0.39
	LTE 12	QPSK10M	25	12	Left Side	23060	23.9	22.93	1.25	-0.06	0.053	0.07
	LTE 12	QPSK10M	25	12	Right Side	23060	23.9	22.93	1.25	0.03	0.083	0.10
	LTE 12	QPSK10M	25	12	Bottom Side	23060	23.9	22.93	1.25	0.01	0.052	0.07
	LTE 12	QPSK10M	1	24	Rear Face	23095	24.9	23.73	1.31	0.13	0.376	0.49
	LTE 12	QPSK10M	1	49	Rear Face	23130	24.9	23.70	1.32	0.11	0.364	0.48
	LTE 13	QPSK10M	1	0	Front Face	23230	24.9	23.95	1.24	0.06	0.376	0.47
37	LTE 13	QPSK10M	1	0	Rear Face	23230	24.9	23.95	1.24	-0.01	0.468	0.58
	LTE 13	QPSK10M	1	0	Left Side	23230	24.9	23.95	1.24	-0.02	0.116	0.14
	LTE 13	QPSK10M	1	0	Right Side	23230	24.9	23.95	1.24	-0.12	0.144	0.18
	LTE 13	QPSK10M	1	0	Bottom Side	23230	24.9	23.95	1.24	0.06	0.156	0.19
	LTE 13	QPSK10M	25	25	Front Face	23230	23.9	22.85	1.27	0.04	0.300	0.38
	LTE 13	QPSK10M	25	25	Rear Face	23230	23.9	22.85	1.27	-0.13	0.386	0.49
	LTE 13	QPSK10M	25	25	Left Side	23230	23.9	22.85	1.27	-0.08	0.056	0.07
	LTE 13	QPSK10M	25	25	Right Side	23230	23.9	22.85	1.27	0.02	0.102	0.13
	LTE 13	QPSK10M	25	25	Bottom Side	23230	23.9	22.85	1.27	-0.06	0.107	0.14
	LTE 25	QPSK20M	1	0	Front Face	26140	24.0	23.55	1.11	0.01	0.668	0.74
38	LTE 25	QPSK20M	1	0	Rear Face	26140	24.0	23.55	1.11	-0.03	0.780	0.87
	LTE 25	QPSK20M	1	0	Left Side	26140	24.0	23.55	1.11	-0.09	0.273	0.30
	LTE 25	QPSK20M	1	0	Right Side	26140	24.0	23.55	1.11	0.08	0.001	0.00
	LTE 25	QPSK20M	1	0	Bottom Side	26140	24.0	23.55	1.11	0.06	0.541	0.60
	LTE 25	QPSK20M	50	0	Front Face	26140	23.0	22.38	1.15	-0.17	0.544	0.63
	LTE 25	QPSK20M	50	0	Rear Face	26140	23.0	22.38	1.15	-0.06	0.626	0.72
	LTE 25	QPSK20M	50	0	Left Side	26140	23.0	22.38	1.15	-0.11	0.190	0.22
	LTE 25	QPSK20M	50	0	Right Side	26140	23.0	22.38	1.15	0.09	0.001	0.00
	LTE 25	QPSK20M	50	0	Bottom Side	26140	23.0	22.38	1.15	0.13	0.412	0.48
	LTE 25	QPSK20M	1	0	Rear Face	26365	24.0	23.23	1.19	-0.03	0.723	0.86
	LTE 25	QPSK20M	1	0	Rear Face	26590	24.0	23.22	1.20	-0.17	0.711	0.85
	LTE 25	QPSK20M	100	0	Rear Face	26140	23.0	22.32	1.17	0.11	0.534	0.62

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Plot No.	Band	Mode	RB#	RB Offset	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)
39	LTE 26	QPSK15M	1	0	Front Face	26965	24.6	23.94	1.16	0.05	0.336	0.39
	LTE 26	QPSK15M	1	0	Rear Face	26965	24.6	23.94	1.16	-0.02	0.436	0.51
	LTE 26	QPSK15M	1	0	Left Side	26965	24.6	23.94	1.16	-0.06	0.062	0.07
	LTE 26	QPSK15M	1	0	Right Side	26965	24.6	23.94	1.16	-0.12	0.049	0.06
	LTE 26	QPSK15M	1	0	Bottom Side	26965	24.6	23.94	1.16	0.07	0.124	0.14
	LTE 26	QPSK15M	36	0	Front Face	26965	23.6	22.95	1.16	0.15	0.285	0.33
	LTE 26	QPSK15M	36	0	Rear Face	26965	23.6	22.95	1.16	0.06	0.372	0.43
	LTE 26	QPSK15M	36	0	Left Side	26965	23.6	22.95	1.16	-0.17	0.048	0.06
	LTE 26	QPSK15M	36	0	Right Side	26965	23.6	22.95	1.16	-0.04	0.000	0.00
	LTE 26	QPSK15M	36	0	Bottom Side	26965	23.6	22.95	1.16	-0.09	0.110	0.13
	LTE 26	QPSK15M	1	0	Rear Face	26765	24.6	23.82	1.20	0.07	0.411	0.49
	LTE 26	QPSK15M	1	37	Rear Face	26865	24.6	23.93	1.17	0.11	0.415	0.48
	LTE 38	QPSK20M	1	0	Front Face	38000	24.5	23.84	1.16	0.08	0.248	0.29
	LTE 38	QPSK20M	1	0	Rear Face	38000	24.5	23.84	1.16	0.16	0.397	0.46
	LTE 38	QPSK20M	1	0	Left Side	38000	24.5	23.84	1.16	-0.12	0.098	0.11
	LTE 38	QPSK20M	1	0	Right Side	38000	24.5	23.84	1.16	-0.02	0.043	0.05
	LTE 38	QPSK20M	1	0	Bottom Side	38000	24.5	23.84	1.16	-0.14	0.482	0.56
48	LTE 38	QPSK20M	50	0	Front Face	38000	23.5	22.98	1.13	0.06	0.204	0.23
	LTE 38	QPSK20M	50	0	Rear Face	38000	23.5	22.98	1.13	-0.07	0.319	0.36
	LTE 38	QPSK20M	50	0	Left Side	38000	23.5	22.98	1.13	0.09	0.079	0.09
	LTE 38	QPSK20M	50	0	Right Side	38000	23.5	22.98	1.13	-0.14	0.024	0.03
	LTE 38	QPSK20M	50	0	Bottom Side	38000	23.5	22.98	1.13	-0.01	0.426	0.48
	LTE 38	QPSK20M	1	0	Rear Face	37850	24.5	23.66	1.21	-0.08	0.367	0.45
	LTE 38	QPSK20M	1	0	Rear Face	38150	24.5	23.76	1.19	0.07	0.381	0.45
	LTE 38	QPSK20M	1	0	Bottom Side	37850	24.5	23.66	1.21	-0.07	0.449	0.54
	LTE 38	QPSK20M	1	0	Bottom Side	38150	24.5	23.76	1.19	0.13	0.432	0.51
	LTE 41	QPSK20M	1	0	Front Face	39750	24.4	23.86	1.13	0.03	0.272	0.31
	LTE 41	QPSK20M	1	0	Rear Face	39750	24.4	23.86	1.13	0.05	0.405	0.46
	LTE 41	QPSK20M	1	0	Left Side	39750	24.4	23.86	1.13	0.07	0.124	0.14
	LTE 41	QPSK20M	1	0	Right Side	39750	24.4	23.86	1.13	0.09	0.065	0.07
	LTE 41	QPSK20M	1	0	Bottom Side	39750	24.4	23.86	1.13	0.11	0.522	0.59
49	LTE 41	QPSK20M	50	0	Front Face	39750	23.4	22.99	1.10	-0.05	0.229	0.25
	LTE 41	QPSK20M	50	0	Rear Face	39750	23.4	22.99	1.10	0.04	0.321	0.35
	LTE 41	QPSK20M	50	0	Left Side	39750	23.4	22.99	1.10	-0.06	0.085	0.09
	LTE 41	QPSK20M	50	0	Right Side	39750	23.4	22.99	1.10	0.08	0.001	0.00
	LTE 41	QPSK20M	50	0	Bottom Side	39750	23.4	22.99	1.10	0.01	0.404	0.44
	LTE 41	QPSK20M	1	50	Rear Face	40185	24.4	23.80	1.15	-0.07	0.381	0.44
	LTE 41	QPSK20M	1	50	Rear Face	40620	24.4	23.83	1.14	0.13	0.377	0.43
	LTE 41	QPSK20M	1	99	Rear Face	41055	24.4	23.65	1.19	0.04	0.382	0.45
	LTE 41	QPSK20M	1	0	Rear Face	41490	24.4	23.56	1.21	-0.04	0.364	0.44
	LTE 41	QPSK20M	1	50	Bottom Side	40185	24.4	23.80	1.15	-0.13	0.481	0.55
	LTE 41	QPSK20M	1	50	Bottom Side	40620	24.4	23.83	1.14	0.09	0.462	0.53
	LTE 41	QPSK20M	1	99	Bottom Side	41055	24.4	23.65	1.19	-0.11	0.477	0.57
	LTE 41	QPSK20M	1	0	Bottom Side	41490	24.4	23.56	1.21	-0.04	0.438	0.53

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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)
42	WLAN2.4G	802.11b 1M	Front Face	1	19.5	18.83	1.17	0.07	0.147	0.17
	WLAN2.4G	802.11b 1M	Rear Face	1	19.5	18.83	1.17	0.09	0.162	0.19
	WLAN2.4G	802.11b 1M	Left Side	1	19.5	18.83	1.17	-0.05	0.085	0.10
	WLAN2.4G	802.11b 1M	Top Side	1	19.5	18.83	1.17	0.02	0.001	0.00
	WLAN2.4G	802.11b 1M	Rear Face	6	19.5	18.70	1.20	0.13	0.145	0.17
	WLAN2.4G	802.11b 1M	Rear Face	11	19.5	18.65	1.22	0.08	0.131	0.16
50	WLAN5G	802.11ac VHT80 MCS0	Front Face	42	16.5	15.38	1.29	0.13	0.001	0.00
	WLAN5G	802.11ac VHT80 MCS0	Rear Face	42	16.5	15.38	1.29	0.14	0.312	0.40
	WLAN5G	802.11ac VHT80 MCS0	Left Side	42	16.5	15.38	1.29	-0.11	0.182	0.24
	WLAN5G	802.11ac VHT80 MCS0	Top Side	42	16.5	15.38	1.29	0.03	0.001	0.00
	WLAN5G	802.11ac VHT80 MCS0	Front Face	155	16.5	15.77	1.18	0.09	0.001	0.00
	WLAN5G	802.11ac VHT80 MCS0	Rear Face	155	16.5	15.77	1.18	-0.11	0.001	0.00
51	WLAN5G	802.11ac VHT80 MCS0	Left Side	155	16.5	15.77	1.18	-0.15	0.19	0.22
	WLAN5G	802.11ac VHT80 MCS0	Top Side	155	16.5	15.77	1.18	0.06	0.001	0.00

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
52	BT	DH1	Front Face	0	7.0	6.65	1.08	0	0	0.00
	BT	DH1	Rear Face	0	7.0	6.65	1.08	0.07	0.000119	0.00
	BT	DH1	Left Side	0	7.0	6.65	1.08	0	0	0.00
	BT	DH1	Top Side	0	7.0	6.65	1.08	0	0	0.00
	BT	DH1	Rear Face	39	7.0	6.03	1.25	0	0	0.00
	BT	DH1	Rear Face	78	7.0	6.39	1.15	0	0	0.00

4.7.5 SAR Results for Product Specific (Phablet) Exposure Condition (Test Separation Distance is 0 mm)

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
53	WLAN5G	802.11ac VHT80 MCS0	Front Face	58	16.5	15.70	1.20	0.02	0.058	0.07
	WLAN5G	802.11ac VHT80 MCS0	Rear Face	58	16.5	15.70	1.20	-0.07	0.237	0.28
	WLAN5G	802.11ac VHT80 MCS0	Left Side	58	16.5	15.70	1.20	-0.09	0.115	0.14
	WLAN5G	802.11ac VHT80 MCS0	Top Side	58	16.5	15.70	1.20	0.06	0.001	0.00
	WLAN5G	802.11ac VHT80 MCS0	Front Face	106	16.5	15.62	1.22	0.03	0.082	0.10
	WLAN5G	802.11ac VHT80 MCS0	Rear Face	106	16.5	15.62	1.22	0.07	0.1	0.12
54	WLAN5G	802.11ac VHT80 MCS0	Left Side	106	16.5	15.62	1.22	-0.06	0.16	0.20
	WLAN5G	802.11ac VHT80 MCS0	Top Side	106	16.5	15.62	1.22	0.02	0.001	0.00
	WLAN5G	802.11ac VHT80 MCS0	Left Side	138	16.5	15.59	1.23	-0.01	0.11	0.14

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4.7.6 SAR Measurement Variability

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

SAR repeated measurement procedure:

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

Band	Mode	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
WCDMA II	RMC12.2K	Rear Face	9400	0.903	0.871	1.04	N/A	N/A	N/A	N/A
WCDMA IV	RMC12.2K	Rear Face	1513	1.06	1.01	1.05	N/A	N/A	N/A	N/A
CDMA2000 BC1	RC3+SO55	Rear Face	1175	1.07	1.01	1.06	N/A	N/A	N/A	N/A
LTE 2	QPSK20M	Rear Face	18700	0.987	0.966	1.02	N/A	N/A	N/A	N/A
LTE 4	QPSK20M	Rear Face	20050	0.886	0.876	1.01	N/A	N/A	N/A	N/A
WCDMA II	RMC12.2K	Rear Face	9400	0.903	0.871	1.04				
LTE 7	QPSK20M	Bottom Side	21350	0.861	0.851	1.01	N/A	N/A	N/A	N/A

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4.7.7 Simultaneous Multi-band Transmission Evaluation

<Possibilities of Simultaneous Transmission>

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

Simultaneous TX Combination	Capable Transmit Configurations	Head Exposure Condition	Body-worn Exposure Condition	Hotspot Exposure Condition
1	GSM + WLAN 2.4G	Yes	Yes	Yes
2	GSM + WLAN 5G	Yes	Yes	Yes
3	GSM + BT (Data)	Yes	Yes	Yes
4	WCDMA + WLAN 2.4G	Yes	Yes	Yes
5	WCDMA + WLAN 5G	Yes	Yes	Yes
6	WCDMA + BT	Yes	Yes	Yes
7	CDMA + WLAN 2.4G	Yes	Yes	Yes
8	CDMA + WLAN 5G	Yes	Yes	Yes
9	CDMA + BT	Yes	Yes	Yes
10	LTE + WLAN 2.4G	Yes	Yes	Yes
11	LTE + WLAN 5G	Yes	Yes	Yes
12	LTE + BT	Yes	Yes	Yes

Note :

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

<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.

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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
1	GSM850 + WLAN (DTS)	Head	Right Cheek	0.42	0.54	0.96	Σ SAR < 1.6, Not required
			Right Tilted	0.27	0.35	0.62	Σ SAR < 1.6, Not required
			Left Cheek	0.36	0.27	0.63	Σ SAR < 1.6, Not required
			Left Tilted	0.26	0.23	0.49	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.45	0.17	0.62	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.19	0.77	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.45	0.17	0.62	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.19	0.77	Σ SAR < 1.6, Not required
			Left Side	0.12	0.10	0.22	Σ SAR < 1.6, Not required
			Right Side	0.25	0.00	0.25	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.29	0.00	0.29	Σ SAR < 1.6, Not required
2	GSM850 + WLAN (NII)	Head	Right Cheek	0.42	0.42	0.84	Σ SAR < 1.6, Not required
			Right Tilted	0.27	0.27	0.54	Σ SAR < 1.6, Not required
			Left Cheek	0.36	0.00	0.36	Σ SAR < 1.6, Not required
			Left Tilted	0.26	0.00	0.26	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.45	0.09	0.54	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.29	0.87	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.45	0.00	0.45	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.40	0.98	Σ SAR < 1.6, Not required
			Left Side	0.12	0.24	0.36	Σ SAR < 1.6, Not required
			Right Side	0.25	0.00	0.25	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.29	0.00	0.29	Σ SAR < 1.6, Not required
3	GSM850 + BT (DSS)	Head	Right Cheek	0.42	0.05	0.47	Σ SAR < 1.6, Not required
			Right Tilted	0.27	0.03	0.30	Σ SAR < 1.6, Not required
			Left Cheek	0.36	0.03	0.39	Σ SAR < 1.6, Not required
			Left Tilted	0.26	0.02	0.28	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.45	0.00	0.45	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.00	0.58	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.45	0.00	0.45	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.00	0.58	Σ SAR < 1.6, Not required
			Left Side	0.12	0.00	0.12	Σ SAR < 1.6, Not required
			Right Side	0.25	0.00	0.25	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.29	0.00	0.29	Σ SAR < 1.6, Not required

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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
4	GSM1900 + WLAN (DTS)	Head	Right Cheek	0.22	0.54	0.76	Σ SAR < 1.6, Not required
			Right Tilted	0.18	0.35	0.53	Σ SAR < 1.6, Not required
			Left Cheek	0.34	0.27	0.61	Σ SAR < 1.6, Not required
			Left Tilted	0.16	0.23	0.39	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.43	0.17	0.60	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.19	0.74	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.43	0.17	0.60	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.19	0.74	Σ SAR < 1.6, Not required
			Left Side	0.10	0.10	0.20	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.38	0.00	0.38	Σ SAR < 1.6, Not required
5	GSM1900 + WLAN (NII)	Head	Right Cheek	0.22	0.42	0.64	Σ SAR < 1.6, Not required
			Right Tilted	0.18	0.27	0.45	Σ SAR < 1.6, Not required
			Left Cheek	0.34	0.00	0.34	Σ SAR < 1.6, Not required
			Left Tilted	0.16	0.00	0.16	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.43	0.09	0.52	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.29	0.84	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.43	0.00	0.43	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.40	0.95	Σ SAR < 1.6, Not required
			Left Side	0.10	0.24	0.34	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.38	0.00	0.38	Σ SAR < 1.6, Not required
6	GSM1900 + BT (DSS)	Head	Right Cheek	0.22	0.05	0.27	Σ SAR < 1.6, Not required
			Right Tilted	0.18	0.03	0.21	Σ SAR < 1.6, Not required
			Left Cheek	0.34	0.03	0.37	Σ SAR < 1.6, Not required
			Left Tilted	0.16	0.02	0.18	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.43	0.00	0.43	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.00	0.55	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.43	0.00	0.43	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.00	0.55	Σ SAR < 1.6, Not required
			Left Side	0.10	0.00	0.10	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.38	0.00	0.38	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
7	WCDMA II + WLAN (DTS)	Head	Right Cheek	0.43	0.54	0.97	Σ SAR < 1.6, Not required
			Right Tilted	0.37	0.35	0.72	Σ SAR < 1.6, Not required
			Left Cheek	0.74	0.27	1.01	Σ SAR < 1.6, Not required
			Left Tilted	0.33	0.23	0.56	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.79	0.17	0.96	Σ SAR < 1.6, Not required
			Rear Face	1.12	0.19	1.31	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.79	0.17	0.96	Σ SAR < 1.6, Not required
			Rear Face	1.12	0.19	1.31	Σ SAR < 1.6, Not required
			Left Side	0.22	0.10	0.32	Σ SAR < 1.6, Not required
			Right Side	0.05	0.00	0.05	Σ SAR < 1.6, Not required
			Top Side	0	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	1.07	0.00	1.07	Σ SAR < 1.6, Not required
8	WCDMA II + WLAN (NII)	Head	Right Cheek	0.43	0.42	0.85	Σ SAR < 1.6, Not required
			Right Tilted	0.37	0.27	0.64	Σ SAR < 1.6, Not required
			Left Cheek	0.74	0.00	0.74	Σ SAR < 1.6, Not required
			Left Tilted	0.33	0.00	0.33	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.79	0.09	0.88	Σ SAR < 1.6, Not required
			Rear Face	1.12	0.29	1.41	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.79	0.00	0.79	Σ SAR < 1.6, Not required
			Rear Face	1.12	0.40	1.52	Σ SAR < 1.6, Not required
			Left Side	0.22	0.24	0.46	Σ SAR < 1.6, Not required
			Right Side	0.05	0.00	0.05	Σ SAR < 1.6, Not required
			Top Side	0	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	1.07	0.00	1.07	Σ SAR < 1.6, Not required
9	WCDMA II + BT (DSS)	Head	Right Cheek	0.43	0.05	0.48	Σ SAR < 1.6, Not required
			Right Tilted	0.37	0.03	0.40	Σ SAR < 1.6, Not required
			Left Cheek	0.74	0.03	0.77	Σ SAR < 1.6, Not required
			Left Tilted	0.33	0.02	0.35	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.79	0.00	0.79	Σ SAR < 1.6, Not required
			Rear Face	1.12	0.00	1.12	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.79	0.00	0.79	Σ SAR < 1.6, Not required
			Rear Face	1.12	0.00	1.12	Σ SAR < 1.6, Not required
			Left Side	0.22	0.00	0.22	Σ SAR < 1.6, Not required
			Right Side	0.05	0.00	0.05	Σ SAR < 1.6, Not required
			Top Side	0	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	1.07	0.00	1.07	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
10	WCDMA IV + WLAN (DTS)	Head	Right Cheek	0.25	0.54	0.79	Σ SAR < 1.6, Not required
			Right Tilted	0.24	0.35	0.59	Σ SAR < 1.6, Not required
			Left Cheek	0.63	0.27	0.90	Σ SAR < 1.6, Not required
			Left Tilted	0.21	0.23	0.44	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	1.00	0.17	1.17	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.19	1.37	Σ SAR < 1.6, Not required
		Hotspot	Front Face	1.00	0.17	1.17	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.19	1.37	Σ SAR < 1.6, Not required
			Left Side	0.06	0.10	0.16	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.67	0.00	0.67	Σ SAR < 1.6, Not required
11	WCDMA IV + WLAN (NII)	Head	Right Cheek	0.25	0.42	0.67	Σ SAR < 1.6, Not required
			Right Tilted	0.24	0.27	0.51	Σ SAR < 1.6, Not required
			Left Cheek	0.63	0.00	0.63	Σ SAR < 1.6, Not required
			Left Tilted	0.21	0.00	0.21	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	1.00	0.09	1.09	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.29	1.47	Σ SAR < 1.6, Not required
		Hotspot	Front Face	1.00	0.00	1.00	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.40	1.58	Σ SAR < 1.6, Not required
			Left Side	0.06	0.24	0.30	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.67	0.00	0.67	Σ SAR < 1.6, Not required
12	WCDMA IV + BT (DSS)	Head	Right Cheek	0.25	0.05	0.30	Σ SAR < 1.6, Not required
			Right Tilted	0.24	0.03	0.27	Σ SAR < 1.6, Not required
			Left Cheek	0.63	0.03	0.66	Σ SAR < 1.6, Not required
			Left Tilted	0.21	0.02	0.23	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	1.00	0.00	1.00	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.00	1.18	Σ SAR < 1.6, Not required
		Hotspot	Front Face	1.00	0.00	1.00	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.00	1.18	Σ SAR < 1.6, Not required
			Left Side	0.06	0.00	0.06	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.67	0.00	0.67	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
13	WCDMA V + WLAN (DTS)	Head	Right Cheek	0.55	0.54	1.09	Σ SAR < 1.6, Not required
			Right Tilted	0.34	0.35	0.69	Σ SAR < 1.6, Not required
			Left Cheek	0.45	0.27	0.72	Σ SAR < 1.6, Not required
			Left Tilted	0.34	0.23	0.57	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.50	0.17	0.67	Σ SAR < 1.6, Not required
			Rear Face	0.67	0.19	0.86	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.45	0.17	0.62	Σ SAR < 1.6, Not required
			Rear Face	0.67	0.19	0.86	Σ SAR < 1.6, Not required
			Left Side	0.12	0.10	0.22	Σ SAR < 1.6, Not required
			Right Side	0.25	0.00	0.25	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.16	0.00	0.16	Σ SAR < 1.6, Not required
14	WCDMA V + WLAN (NII)	Head	Right Cheek	0.55	0.42	0.97	Σ SAR < 1.6, Not required
			Right Tilted	0.34	0.27	0.61	Σ SAR < 1.6, Not required
			Left Cheek	0.45	0.00	0.45	Σ SAR < 1.6, Not required
			Left Tilted	0.34	0.00	0.34	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.50	0.09	0.59	Σ SAR < 1.6, Not required
			Rear Face	0.67	0.29	0.96	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.45	0.00	0.45	Σ SAR < 1.6, Not required
			Rear Face	0.67	0.40	1.07	Σ SAR < 1.6, Not required
			Left Side	0.12	0.24	0.36	Σ SAR < 1.6, Not required
			Right Side	0.25	0.00	0.25	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.16	0.00	0.16	Σ SAR < 1.6, Not required
15	WCDMA V + BT (DSS)	Head	Right Cheek	0.55	0.05	0.60	Σ SAR < 1.6, Not required
			Right Tilted	0.34	0.03	0.37	Σ SAR < 1.6, Not required
			Left Cheek	0.45	0.03	0.48	Σ SAR < 1.6, Not required
			Left Tilted	0.34	0.02	0.36	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.50	0.00	0.50	Σ SAR < 1.6, Not required
			Rear Face	0.67	0.00	0.67	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.45	0.00	0.45	Σ SAR < 1.6, Not required
			Rear Face	0.67	0.00	0.67	Σ SAR < 1.6, Not required
			Left Side	0.12	0.00	0.12	Σ SAR < 1.6, Not required
			Right Side	0.25	0.00	0.25	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.16	0.00	0.16	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
16	CDMA2000 BC0 + WLAN (DTS)	Head	Right Cheek	0.64	0.54	1.18	Σ SAR < 1.6, Not required
			Right Tilted	0.45	0.35	0.80	Σ SAR < 1.6, Not required
			Left Cheek	0.56	0.27	0.83	Σ SAR < 1.6, Not required
			Left Tilted	0.43	0.23	0.66	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.61	0.17	0.78	Σ SAR < 1.6, Not required
			Rear Face	0.77	0.19	0.96	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.61	0.17	0.78	Σ SAR < 1.6, Not required
			Rear Face	0.77	0.19	0.96	Σ SAR < 1.6, Not required
			Left Side	0.28	0.10	0.38	Σ SAR < 1.6, Not required
			Right Side	0.49	0.00	0.49	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.23	0.00	0.23	Σ SAR < 1.6, Not required
17	CDMA2000 BC0 + WLAN (NII)	Head	Right Cheek	0.64	0.42	1.06	Σ SAR < 1.6, Not required
			Right Tilted	0.45	0.27	0.72	Σ SAR < 1.6, Not required
			Left Cheek	0.56	0.00	0.56	Σ SAR < 1.6, Not required
			Left Tilted	0.43	0.00	0.43	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.61	0.09	0.70	Σ SAR < 1.6, Not required
			Rear Face	0.77	0.29	1.06	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.61	0.00	0.61	Σ SAR < 1.6, Not required
			Rear Face	0.77	0.40	1.17	Σ SAR < 1.6, Not required
			Left Side	0.28	0.24	0.52	Σ SAR < 1.6, Not required
			Right Side	0.49	0.00	0.49	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.23	0.00	0.23	Σ SAR < 1.6, Not required
18	CDMA2000 BC0 + BT (DSS)	Head	Right Cheek	0.64	0.05	0.69	Σ SAR < 1.6, Not required
			Right Tilted	0.45	0.03	0.48	Σ SAR < 1.6, Not required
			Left Cheek	0.56	0.03	0.59	Σ SAR < 1.6, Not required
			Left Tilted	0.43	0.02	0.45	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.61	0.00	0.61	Σ SAR < 1.6, Not required
			Rear Face	0.77	0.00	0.77	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.61	0.00	0.61	Σ SAR < 1.6, Not required
			Rear Face	0.77	0.00	0.77	Σ SAR < 1.6, Not required
			Left Side	0.28	0.00	0.28	Σ SAR < 1.6, Not required
			Right Side	0.49	0.00	0.49	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.23	0.00	0.23	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
19	CDMA2000 BC1 + WLAN (DTS)	Head	Right Cheek	0.36	0.54	0.90	Σ SAR < 1.6, Not required
			Right Tilted	0.32	0.35	0.67	Σ SAR < 1.6, Not required
			Left Cheek	0.47	0.27	0.74	Σ SAR < 1.6, Not required
			Left Tilted	0.25	0.23	0.48	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.96	0.17	1.13	Σ SAR < 1.6, Not required
			Rear Face	1.19	0.19	1.38	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.96	0.17	1.13	Σ SAR < 1.6, Not required
			Rear Face	1.19	0.19	1.38	Σ SAR < 1.6, Not required
			Left Side	0.35	0.10	0.45	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.79	0.00	0.79	Σ SAR < 1.6, Not required
20	CDMA2000 BC1 + WLAN (NII)	Head	Right Cheek	0.36	0.42	0.78	Σ SAR < 1.6, Not required
			Right Tilted	0.32	0.27	0.59	Σ SAR < 1.6, Not required
			Left Cheek	0.47	0.00	0.47	Σ SAR < 1.6, Not required
			Left Tilted	0.25	0.00	0.25	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.96	0.09	1.05	Σ SAR < 1.6, Not required
			Rear Face	1.19	0.29	1.48	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.96	0.00	0.96	Σ SAR < 1.6, Not required
			Rear Face	1.19	0.40	1.59	Σ SAR < 1.6, Not required
			Left Side	0.35	0.24	0.59	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.79	0.00	0.79	Σ SAR < 1.6, Not required
21	CDMA2000 BC1 + BT (DSS)	Head	Right Cheek	0.36	0.05	0.41	Σ SAR < 1.6, Not required
			Right Tilted	0.32	0.03	0.35	Σ SAR < 1.6, Not required
			Left Cheek	0.47	0.03	0.50	Σ SAR < 1.6, Not required
			Left Tilted	0.25	0.02	0.27	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.96	0.00	0.96	Σ SAR < 1.6, Not required
			Rear Face	1.19	0.00	1.19	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.96	0.00	0.96	Σ SAR < 1.6, Not required
			Rear Face	1.19	0.00	1.19	Σ SAR < 1.6, Not required
			Left Side	0.35	0.00	0.35	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.79	0.00	0.79	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
22	CDMA2000 BC10 + WLAN (DTS)	Head	Right Cheek	0.53	0.54	1.07	Σ SAR < 1.6, Not required
			Right Tilted	0.35	0.35	0.70	Σ SAR < 1.6, Not required
			Left Cheek	0.48	0.27	0.75	Σ SAR < 1.6, Not required
			Left Tilted	0.36	0.23	0.59	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.58	0.17	0.75	Σ SAR < 1.6, Not required
			Rear Face	0.74	0.19	0.93	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.52	0.17	0.69	Σ SAR < 1.6, Not required
			Rear Face	0.74	0.19	0.93	Σ SAR < 1.6, Not required
			Left Side	0.17	0.10	0.27	Σ SAR < 1.6, Not required
			Right Side	0.19	0.00	0.19	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.15	0.00	0.15	Σ SAR < 1.6, Not required
23	CDMA2000 BC10 + WLAN (NII)	Head	Right Cheek	0.53	0.42	0.95	Σ SAR < 1.6, Not required
			Right Tilted	0.35	0.27	0.62	Σ SAR < 1.6, Not required
			Left Cheek	0.48	0.00	0.48	Σ SAR < 1.6, Not required
			Left Tilted	0.36	0.00	0.36	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.58	0.09	0.67	Σ SAR < 1.6, Not required
			Rear Face	0.74	0.29	1.03	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.52	0.00	0.52	Σ SAR < 1.6, Not required
			Rear Face	0.74	0.40	1.14	Σ SAR < 1.6, Not required
			Left Side	0.17	0.24	0.41	Σ SAR < 1.6, Not required
			Right Side	0.19	0.00	0.19	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.15	0.00	0.15	Σ SAR < 1.6, Not required
24	CDMA2000 BC10 + BT (DSS)	Head	Right Cheek	0.53	0.05	0.58	Σ SAR < 1.6, Not required
			Right Tilted	0.35	0.03	0.38	Σ SAR < 1.6, Not required
			Left Cheek	0.48	0.03	0.51	Σ SAR < 1.6, Not required
			Left Tilted	0.36	0.02	0.38	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.58	0.00	0.58	Σ SAR < 1.6, Not required
			Rear Face	0.74	0.00	0.74	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.52	0.00	0.52	Σ SAR < 1.6, Not required
			Rear Face	0.74	0.00	0.74	Σ SAR < 1.6, Not required
			Left Side	0.17	0.00	0.17	Σ SAR < 1.6, Not required
			Right Side	0.19	0.00	0.19	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.15	0.00	0.15	Σ SAR < 1.6, Not required

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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
25	LTE 2 + WLAN (DTS)	Head	Right Cheek	0.41	0.54	0.95	Σ SAR < 1.6, Not required
			Right Tilted	0.28	0.35	0.63	Σ SAR < 1.6, Not required
			Left Cheek	0.73	0.27	1.00	Σ SAR < 1.6, Not required
			Left Tilted	0.23	0.23	0.46	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.91	0.17	1.08	Σ SAR < 1.6, Not required
			Rear Face	1.06	0.19	1.25	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.91	0.17	1.08	Σ SAR < 1.6, Not required
			Rear Face	1.06	0.19	1.25	Σ SAR < 1.6, Not required
			Left Side	0.60	0.10	0.70	Σ SAR < 1.6, Not required
			Right Side	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.79	0.00	0.79	Σ SAR < 1.6, Not required
26	LTE 2 + WLAN (NII)	Head	Right Cheek	0.41	0.42	0.83	Σ SAR < 1.6, Not required
			Right Tilted	0.28	0.27	0.55	Σ SAR < 1.6, Not required
			Left Cheek	0.73	0.00	0.73	Σ SAR < 1.6, Not required
			Left Tilted	0.23	0.00	0.23	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.91	0.09	1.00	Σ SAR < 1.6, Not required
			Rear Face	1.06	0.29	1.35	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.91	0.00	0.91	Σ SAR < 1.6, Not required
			Rear Face	1.06	0.40	1.46	Σ SAR < 1.6, Not required
			Left Side	0.60	0.24	0.84	Σ SAR < 1.6, Not required
			Right Side	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.79	0.00	0.79	Σ SAR < 1.6, Not required
27	LTE 2 + BT (DSS)	Head	Right Cheek	0.41	0.05	0.46	Σ SAR < 1.6, Not required
			Right Tilted	0.28	0.03	0.31	Σ SAR < 1.6, Not required
			Left Cheek	0.73	0.03	0.76	Σ SAR < 1.6, Not required
			Left Tilted	0.23	0.02	0.25	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.91	0.00	0.91	Σ SAR < 1.6, Not required
			Rear Face	1.06	0.00	1.06	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.91	0.00	0.91	Σ SAR < 1.6, Not required
			Rear Face	1.06	0.00	1.06	Σ SAR < 1.6, Not required
			Left Side	0.60	0.00	0.60	Σ SAR < 1.6, Not required
			Right Side	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.79	0.00	0.79	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
28	LTE 4 + WLAN (DTS)	Head	Right Cheek	0.26	0.54	0.80	Σ SAR < 1.6, Not required
			Right Tilted	0.25	0.35	0.60	Σ SAR < 1.6, Not required
			Left Cheek	0.68	0.27	0.95	Σ SAR < 1.6, Not required
			Left Tilted	0.21	0.23	0.44	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.82	0.17	0.99	Σ SAR < 1.6, Not required
			Rear Face	0.93	0.19	1.12	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.82	0.17	0.99	Σ SAR < 1.6, Not required
			Rear Face	0.93	0.19	1.12	Σ SAR < 1.6, Not required
			Left Side	0.30	0.10	0.40	Σ SAR < 1.6, Not required
			Right Side	0.08	0.00	0.08	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.57	0.00	0.57	Σ SAR < 1.6, Not required
29	LTE 4 + WLAN (NII)	Head	Right Cheek	0.26	0.42	0.68	Σ SAR < 1.6, Not required
			Right Tilted	0.25	0.27	0.52	Σ SAR < 1.6, Not required
			Left Cheek	0.68	0.00	0.68	Σ SAR < 1.6, Not required
			Left Tilted	0.21	0.00	0.21	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.82	0.09	0.91	Σ SAR < 1.6, Not required
			Rear Face	0.93	0.29	1.22	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.82	0.00	0.82	Σ SAR < 1.6, Not required
			Rear Face	0.93	0.40	1.33	Σ SAR < 1.6, Not required
			Left Side	0.30	0.24	0.54	Σ SAR < 1.6, Not required
			Right Side	0.08	0.00	0.08	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.57	0.00	0.57	Σ SAR < 1.6, Not required
30	LTE 4 + BT (DSS)	Head	Right Cheek	0.26	0.05	0.31	Σ SAR < 1.6, Not required
			Right Tilted	0.25	0.03	0.28	Σ SAR < 1.6, Not required
			Left Cheek	0.68	0.03	0.71	Σ SAR < 1.6, Not required
			Left Tilted	0.21	0.02	0.23	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.82	0.00	0.82	Σ SAR < 1.6, Not required
			Rear Face	0.93	0.00	0.93	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.82	0.00	0.82	Σ SAR < 1.6, Not required
			Rear Face	0.93	0.00	0.93	Σ SAR < 1.6, Not required
			Left Side	0.30	0.00	0.30	Σ SAR < 1.6, Not required
			Right Side	0.08	0.00	0.08	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.57	0.00	0.57	Σ SAR < 1.6, Not required

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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
31	LTE 5 + WLAN (DTS)	Head	Right Cheek	0.45	0.54	0.99	Σ SAR < 1.6, Not required
			Right Tilted	0.29	0.35	0.64	Σ SAR < 1.6, Not required
			Left Cheek	0.39	0.27	0.66	Σ SAR < 1.6, Not required
			Left Tilted	0.27	0.23	0.50	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.44	0.17	0.61	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.19	0.74	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.44	0.17	0.61	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.19	0.74	Σ SAR < 1.6, Not required
			Left Side	0.20	0.10	0.30	Σ SAR < 1.6, Not required
			Right Side	0.22	0.00	0.22	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.17	0.00	0.17	Σ SAR < 1.6, Not required
32	LTE 5 + WLAN (NII)	Head	Right Cheek	0.45	0.42	0.87	Σ SAR < 1.6, Not required
			Right Tilted	0.29	0.27	0.56	Σ SAR < 1.6, Not required
			Left Cheek	0.39	0.00	0.39	Σ SAR < 1.6, Not required
			Left Tilted	0.27	0.00	0.27	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.44	0.09	0.53	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.29	0.84	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.44	0.00	0.44	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.40	0.95	Σ SAR < 1.6, Not required
			Left Side	0.20	0.24	0.44	Σ SAR < 1.6, Not required
			Right Side	0.22	0.00	0.22	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.17	0.00	0.17	Σ SAR < 1.6, Not required
33	LTE 5 + BT (DSS)	Head	Right Cheek	0.45	0.05	0.50	Σ SAR < 1.6, Not required
			Right Tilted	0.29	0.03	0.32	Σ SAR < 1.6, Not required
			Left Cheek	0.39	0.03	0.42	Σ SAR < 1.6, Not required
			Left Tilted	0.27	0.02	0.29	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.44	0.00	0.44	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.00	0.55	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.44	0.00	0.44	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.00	0.55	Σ SAR < 1.6, Not required
			Left Side	0.20	0.00	0.20	Σ SAR < 1.6, Not required
			Right Side	0.22	0.00	0.22	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.17	0.00	0.17	Σ SAR < 1.6, Not required

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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
34	LTE 7 + WLAN (DTS)	Head	Right Cheek	0.19	0.54	0.73	Σ SAR < 1.6, Not required
			Right Tilted	0.16	0.35	0.51	Σ SAR < 1.6, Not required
			Left Cheek	0.38	0.27	0.65	Σ SAR < 1.6, Not required
			Left Tilted	0.13	0.23	0.36	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.54	0.17	0.71	Σ SAR < 1.6, Not required
			Rear Face	0.90	0.19	1.09	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.54	0.17	0.71	Σ SAR < 1.6, Not required
			Rear Face	0.90	0.19	1.09	Σ SAR < 1.6, Not required
			Left Side	0.28	0.10	0.38	Σ SAR < 1.6, Not required
			Right Side	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	1.04	0.00	1.04	Σ SAR < 1.6, Not required
35	LTE 7 + WLAN (NII)	Head	Right Cheek	0.19	0.42	0.61	Σ SAR < 1.6, Not required
			Right Tilted	0.16	0.27	0.43	Σ SAR < 1.6, Not required
			Left Cheek	0.38	0.00	0.38	Σ SAR < 1.6, Not required
			Left Tilted	0.13	0.00	0.13	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.54	0.09	0.63	Σ SAR < 1.6, Not required
			Rear Face	0.90	0.29	1.19	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.54	0.00	0.54	Σ SAR < 1.6, Not required
			Rear Face	0.90	0.40	1.30	Σ SAR < 1.6, Not required
			Left Side	0.28	0.24	0.52	Σ SAR < 1.6, Not required
			Right Side	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	1.04	0.00	1.04	Σ SAR < 1.6, Not required
36	LTE 7 + BT (DSS)	Head	Right Cheek	0.19	0.05	0.24	Σ SAR < 1.6, Not required
			Right Tilted	0.16	0.03	0.19	Σ SAR < 1.6, Not required
			Left Cheek	0.38	0.03	0.41	Σ SAR < 1.6, Not required
			Left Tilted	0.13	0.02	0.15	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.54	0.00	0.54	Σ SAR < 1.6, Not required
			Rear Face	0.90	0.00	0.90	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.54	0.00	0.54	Σ SAR < 1.6, Not required
			Rear Face	0.90	0.00	0.90	Σ SAR < 1.6, Not required
			Left Side	0.28	0.00	0.28	Σ SAR < 1.6, Not required
			Right Side	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	1.04	0.00	1.04	Σ SAR < 1.6, Not required

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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
37	LTE 12 + WLAN (DTS)	Head	Right Cheek	0.21	0.54	0.75	Σ SAR < 1.6, Not required
			Right Tilted	0.14	0.35	0.49	Σ SAR < 1.6, Not required
			Left Cheek	0.20	0.27	0.47	Σ SAR < 1.6, Not required
			Left Tilted	0.14	0.23	0.37	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.45	0.17	0.62	Σ SAR < 1.6, Not required
			Rear Face	0.53	0.19	0.72	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.44	0.17	0.61	Σ SAR < 1.6, Not required
			Rear Face	0.53	0.19	0.72	Σ SAR < 1.6, Not required
			Left Side	0.11	0.10	0.21	Σ SAR < 1.6, Not required
			Right Side	0.13	0.00	0.13	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.08	0.00	0.08	Σ SAR < 1.6, Not required
38	LTE 12 + WLAN (NII)	Head	Right Cheek	0.21	0.42	0.63	Σ SAR < 1.6, Not required
			Right Tilted	0.14	0.27	0.41	Σ SAR < 1.6, Not required
			Left Cheek	0.20	0.00	0.20	Σ SAR < 1.6, Not required
			Left Tilted	0.14	0.00	0.14	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.45	0.09	0.54	Σ SAR < 1.6, Not required
			Rear Face	0.53	0.29	0.82	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.44	0.00	0.44	Σ SAR < 1.6, Not required
			Rear Face	0.53	0.40	0.93	Σ SAR < 1.6, Not required
			Left Side	0.11	0.24	0.35	Σ SAR < 1.6, Not required
			Right Side	0.13	0.00	0.13	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.08	0.00	0.08	Σ SAR < 1.6, Not required
39	LTE 12 + BT (DSS)	Head	Right Cheek	0.21	0.05	0.26	Σ SAR < 1.6, Not required
			Right Tilted	0.14	0.03	0.17	Σ SAR < 1.6, Not required
			Left Cheek	0.20	0.03	0.23	Σ SAR < 1.6, Not required
			Left Tilted	0.14	0.02	0.16	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.45	0.00	0.45	Σ SAR < 1.6, Not required
			Rear Face	0.53	0.00	0.53	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.44	0.00	0.44	Σ SAR < 1.6, Not required
			Rear Face	0.53	0.00	0.53	Σ SAR < 1.6, Not required
			Left Side	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Right Side	0.13	0.00	0.13	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.08	0.00	0.08	Σ SAR < 1.6, Not required

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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
40	LTE 13 + WLAN (DTS)	Head	Right Cheek	0.36	0.54	0.90	Σ SAR < 1.6, Not required
			Right Tilted	0.25	0.35	0.60	Σ SAR < 1.6, Not required
			Left Cheek	0.27	0.27	0.54	Σ SAR < 1.6, Not required
			Left Tilted	0.22	0.23	0.45	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.53	0.17	0.70	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.19	0.77	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.47	0.17	0.64	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.19	0.77	Σ SAR < 1.6, Not required
			Left Side	0.14	0.10	0.24	Σ SAR < 1.6, Not required
			Right Side	0.18	0.00	0.18	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.19	0.00	0.19	Σ SAR < 1.6, Not required
41	LTE 13 + WLAN (NII)	Head	Right Cheek	0.36	0.42	0.78	Σ SAR < 1.6, Not required
			Right Tilted	0.25	0.27	0.52	Σ SAR < 1.6, Not required
			Left Cheek	0.27	0.00	0.27	Σ SAR < 1.6, Not required
			Left Tilted	0.22	0.00	0.22	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.53	0.09	0.62	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.29	0.87	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.47	0.00	0.47	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.40	0.98	Σ SAR < 1.6, Not required
			Left Side	0.14	0.24	0.38	Σ SAR < 1.6, Not required
			Right Side	0.18	0.00	0.18	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.19	0.00	0.19	Σ SAR < 1.6, Not required
42	LTE 13 + BT (DSS)	Head	Right Cheek	0.36	0.05	0.41	Σ SAR < 1.6, Not required
			Right Tilted	0.25	0.03	0.28	Σ SAR < 1.6, Not required
			Left Cheek	0.27	0.03	0.30	Σ SAR < 1.6, Not required
			Left Tilted	0.22	0.02	0.24	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.53	0.00	0.53	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.00	0.58	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.47	0.00	0.47	Σ SAR < 1.6, Not required
			Rear Face	0.58	0.00	0.58	Σ SAR < 1.6, Not required
			Left Side	0.14	0.00	0.14	Σ SAR < 1.6, Not required
			Right Side	0.18	0.00	0.18	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.19	0.00	0.19	Σ SAR < 1.6, Not required

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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
43	LTE 25 + WLAN (DTS)	Head	Right Cheek	0.30	0.54	0.84	Σ SAR < 1.6, Not required
			Right Tilted	0.26	0.35	0.61	Σ SAR < 1.6, Not required
			Left Cheek	0.51	0.27	0.78	Σ SAR < 1.6, Not required
			Left Tilted	0.21	0.23	0.44	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.74	0.17	0.91	Σ SAR < 1.6, Not required
			Rear Face	0.87	0.19	1.06	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.74	0.17	0.91	Σ SAR < 1.6, Not required
			Rear Face	0.87	0.19	1.06	Σ SAR < 1.6, Not required
			Left Side	0.30	0.10	0.40	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.60	0.00	0.60	Σ SAR < 1.6, Not required
44	LTE 25 + WLAN (NII)	Head	Right Cheek	0.30	0.42	0.72	Σ SAR < 1.6, Not required
			Right Tilted	0.26	0.27	0.53	Σ SAR < 1.6, Not required
			Left Cheek	0.51	0.00	0.51	Σ SAR < 1.6, Not required
			Left Tilted	0.21	0.00	0.21	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.74	0.09	0.83	Σ SAR < 1.6, Not required
			Rear Face	0.87	0.29	1.16	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.74	0.00	0.74	Σ SAR < 1.6, Not required
			Rear Face	0.87	0.40	1.27	Σ SAR < 1.6, Not required
			Left Side	0.30	0.24	0.54	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.60	0.00	0.60	Σ SAR < 1.6, Not required
45	LTE 25 + BT (DSS)	Head	Right Cheek	0.30	0.05	0.35	Σ SAR < 1.6, Not required
			Right Tilted	0.26	0.03	0.29	Σ SAR < 1.6, Not required
			Left Cheek	0.51	0.03	0.54	Σ SAR < 1.6, Not required
			Left Tilted	0.21	0.02	0.23	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.74	0.00	0.74	Σ SAR < 1.6, Not required
			Rear Face	0.87	0.00	0.87	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.74	0.00	0.74	Σ SAR < 1.6, Not required
			Rear Face	0.87	0.00	0.87	Σ SAR < 1.6, Not required
			Left Side	0.30	0.00	0.30	Σ SAR < 1.6, Not required
			Right Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.60	0.00	0.60	Σ SAR < 1.6, Not required

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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
46	LTE 26 + WLAN (DTS)	Head	Right Cheek	0.37	0.54	0.91	Σ SAR < 1.6, Not required
			Right Tilted	0.08	0.35	0.43	Σ SAR < 1.6, Not required
			Left Cheek	0.14	0.27	0.41	Σ SAR < 1.6, Not required
			Left Tilted	0.10	0.23	0.33	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.39	0.17	0.56	Σ SAR < 1.6, Not required
			Rear Face	0.51	0.19	0.70	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.39	0.17	0.56	Σ SAR < 1.6, Not required
			Rear Face	0.51	0.19	0.70	Σ SAR < 1.6, Not required
			Left Side	0.07	0.10	0.17	Σ SAR < 1.6, Not required
			Right Side	0.06	0.00	0.06	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.14	0.00	0.14	Σ SAR < 1.6, Not required
47	LTE 26 + WLAN (NII)	Head	Right Cheek	0.37	0.42	0.79	Σ SAR < 1.6, Not required
			Right Tilted	0.08	0.27	0.35	Σ SAR < 1.6, Not required
			Left Cheek	0.14	0.00	0.14	Σ SAR < 1.6, Not required
			Left Tilted	0.10	0.00	0.10	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.39	0.09	0.48	Σ SAR < 1.6, Not required
			Rear Face	0.51	0.29	0.80	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.39	0.00	0.39	Σ SAR < 1.6, Not required
			Rear Face	0.51	0.40	0.91	Σ SAR < 1.6, Not required
			Left Side	0.07	0.24	0.31	Σ SAR < 1.6, Not required
			Right Side	0.06	0.00	0.06	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.14	0.00	0.14	Σ SAR < 1.6, Not required
48	LTE 26 + BT (DSS)	Head	Right Cheek	0.37	0.05	0.42	Σ SAR < 1.6, Not required
			Right Tilted	0.08	0.03	0.11	Σ SAR < 1.6, Not required
			Left Cheek	0.14	0.03	0.17	Σ SAR < 1.6, Not required
			Left Tilted	0.10	0.02	0.12	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.39	0.00	0.39	Σ SAR < 1.6, Not required
			Rear Face	0.51	0.00	0.51	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.39	0.00	0.39	Σ SAR < 1.6, Not required
			Rear Face	0.51	0.00	0.51	Σ SAR < 1.6, Not required
			Left Side	0.07	0.00	0.07	Σ SAR < 1.6, Not required
			Right Side	0.06	0.00	0.06	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.14	0.00	0.14	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
49	LTE 38 + WLAN (DTS)	Head	Right Cheek	0.10	0.54	0.64	Σ SAR < 1.6, Not required
			Right Tilted	0.08	0.35	0.43	Σ SAR < 1.6, Not required
			Left Cheek	0.24	0.27	0.51	Σ SAR < 1.6, Not required
			Left Tilted	0.06	0.23	0.29	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.29	0.17	0.46	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.19	0.65	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.29	0.17	0.46	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.19	0.65	Σ SAR < 1.6, Not required
			Left Side	0.11	0.10	0.21	Σ SAR < 1.6, Not required
			Right Side	0.05	0.00	0.05	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.56	0.00	0.56	Σ SAR < 1.6, Not required
50	LTE 38 + WLAN (NII)	Head	Right Cheek	0.10	0.42	0.52	Σ SAR < 1.6, Not required
			Right Tilted	0.08	0.27	0.35	Σ SAR < 1.6, Not required
			Left Cheek	0.24	0.00	0.24	Σ SAR < 1.6, Not required
			Left Tilted	0.06	0.00	0.06	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.29	0.09	0.38	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.29	0.75	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.29	0.00	0.29	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.40	0.86	Σ SAR < 1.6, Not required
			Left Side	0.11	0.24	0.35	Σ SAR < 1.6, Not required
			Right Side	0.05	0.00	0.05	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.56	0.00	0.56	Σ SAR < 1.6, Not required
51	LTE 38 + BT (DSS)	Head	Right Cheek	0.10	0.05	0.15	Σ SAR < 1.6, Not required
			Right Tilted	0.08	0.03	0.11	Σ SAR < 1.6, Not required
			Left Cheek	0.24	0.03	0.27	Σ SAR < 1.6, Not required
			Left Tilted	0.06	0.02	0.08	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.29	0.00	0.29	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.00	0.46	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.29	0.00	0.29	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.00	0.46	Σ SAR < 1.6, Not required
			Left Side	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Right Side	0.05	0.00	0.05	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.56	0.00	0.56	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
52	LTE 41 + WLAN (DTS)	Head	Right Cheek	0.12	0.54	0.66	Σ SAR < 1.6, Not required
			Right Tilted	0.09	0.35	0.44	Σ SAR < 1.6, Not required
			Left Cheek	0.25	0.27	0.52	Σ SAR < 1.6, Not required
			Left Tilted	0.09	0.23	0.32	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.31	0.17	0.48	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.19	0.65	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.31	0.17	0.48	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.19	0.65	Σ SAR < 1.6, Not required
			Left Side	0.14	0.10	0.24	Σ SAR < 1.6, Not required
			Right Side	0.07	0.00	0.07	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.59	0.00	0.59	Σ SAR < 1.6, Not required
53	LTE 41 + WLAN (NII)	Head	Right Cheek	0.12	0.42	0.54	Σ SAR < 1.6, Not required
			Right Tilted	0.09	0.27	0.36	Σ SAR < 1.6, Not required
			Left Cheek	0.25	0.00	0.25	Σ SAR < 1.6, Not required
			Left Tilted	0.09	0.00	0.09	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.31	0.09	0.40	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.29	0.75	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.31	0.00	0.31	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.40	0.86	Σ SAR < 1.6, Not required
			Left Side	0.14	0.24	0.38	Σ SAR < 1.6, Not required
			Right Side	0.07	0.00	0.07	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.59	0.00	0.59	Σ SAR < 1.6, Not required
54	LTE 41 + BT (DSS)	Head	Right Cheek	0.12	0.05	0.17	Σ SAR < 1.6, Not required
			Right Tilted	0.09	0.03	0.12	Σ SAR < 1.6, Not required
			Left Cheek	0.25	0.03	0.28	Σ SAR < 1.6, Not required
			Left Tilted	0.09	0.02	0.11	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.31	0.00	0.31	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.00	0.46	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.31	0.00	0.31	Σ SAR < 1.6, Not required
			Rear Face	0.46	0.00	0.46	Σ SAR < 1.6, Not required
			Left Side	0.14	0.00	0.14	Σ SAR < 1.6, Not required
			Right Side	0.07	0.00	0.07	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.59	0.00	0.59	Σ SAR < 1.6, Not required

Test Engineer : Isaac Liao, and Sam Onn

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1013	Aug. 21, 2017	1 Year
System Validation Dipole	SPEAG	D835V2	4d121	Aug. 21, 2017	1 Year
System Validation Dipole	SPEAG	D1750V2	1055	Aug. 21, 2017	1 Year
System Validation Dipole	SPEAG	D1900V2	5d036	Jan. 23, 2017	1 Year
System Validation Dipole	SPEAG	D2300V2	1004	Jan. 25, 2017	1 Year
System Validation Dipole	SPEAG	D2450V2	737	Aug. 17, 2017	1 Year
System Validation Dipole	SPEAG	D2600V2	1020	Aug. 17, 2017	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1019	Aug. 23, 2017	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3650	Jul. 24, 2017	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3971	Mar. 24, 2017	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7346	Oct. 24, 2017	1 Year
Data Acquisition Electronics	SPEAG	DAE3	679	Jul. 31, 2017	1 Year
Data Acquisition Electronics	SPEAG	DAE4	861	May. 22, 2017	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1431	Mar. 20, 2017	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1277	Jul. 20, 2017	1 Year
Radio Communication Analyzer	Anritsu	MT8820C	6201300638	Jul. 11, 2017	1 Year
Spectrum Analyzer	R&S	FSL6	102006	Mar. 27, 2017	1 Year
ENA Series Network Analyzer	Agilent	E5071C	MY46214281	Jun. 09, 2017	1 Year
Vector Signal Generator	Anritsu	MG3710A	6201599977	Mar. 27, 2017	1 Year
Power Meter	Anritsu	ML2495A	1218009	Jul. 12, 2017	1 Year
Power Sensor	Anritsu	MA2411B	1207252	Jul. 12, 2017	1 Year
Universal Wireless Test Set	Anritsu	MT8870A/MU8 87000A	6201699387	Sep. 14, 2017	1 Year
Thermometer	YFE	YF-160A	130504591	Mar. 24, 2017	1 Year
Power Amplifier	AR	5S1G4	0339656	Sep. 20, 2017	1 Year
Attenuator	MTJ	MTJ6011-03	N/A	Sep. 15, 2017	1 Year
Directional Coupler	Woken	0110A05602O-10	11122702	Sep. 15, 2017	1 Year

FCC SAR Test Report

6. Measurement Uncertainty

Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.0	Normal	1	1	1	6.0	6.0	∞
Axial Isotropy	4.7	Rectangular	√3	√0.5	√0.5	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	√0.5	√0.5	3.9	3.9	∞
Boundary Effect	1.0	Rectangular	√3	1	1	0.6	0.6	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Probe Modulation Response	3.5	Rectangular	√3	1	1	2.0	2.0	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom	2.9	Rectangular	√3	1	1	1.7	1.7	∞
Post-processing	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Test Sample Related								
Test Sample Positioning	3.9 / 2.06	Normal	1	1	1	3.9	2.1	35
Device Holder Uncertainty	2.9 / 4.1	Normal	1	1	1	2.9	4.1	11
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Power Scaling	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	6.1	Rectangular	√3	1	1	3.5	3.5	∞
Liquid Conductivity (Temperature Uncertainty)	3.24	Rectangular	√3	0.78	0.71	1.5	1.3	∞
Liquid Conductivity (Measured)	2.88	Normal	1	0.78	0.71	2.2	2.0	43
Liquid Permittivity (Temperature Uncertainty)	1.13	Rectangular	√3	0.23	0.26	0.2	0.2	∞
Liquid Permittivity (Measured)	2.50	Normal	1	0.23	0.26	0.6	0.7	54
Combined Standard Uncertainty						± 11.4 %	± 11.2 %	
Expanded Uncertainty (K=2)						± 22.8 %	± 22.4 %	

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

FCC SAR Test Report

Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.55	Normal	1	1	1	6.55	6.55	∞
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	3.9	3.9	∞
Boundary Effect	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Probe Modulation Response	3.5	Rectangular	√3	1	1	2.0	2.0	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom	6.7	Rectangular	√3	1	1	3.9	3.9	∞
Post-processing	4.0	Rectangular	√3	1	1	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	3.9 / 2.06	Normal	1	1	1	3.9	2.1	35
Device Holder Uncertainty	2.9 / 4.1	Normal	1	1	1	2.9	4.1	11
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Power Scaling	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	6.6	Rectangular	√3	1	1	3.8	3.8	∞
Liquid Conductivity (Temperature Uncertainty)	3.24	Rectangular	√3	0.78	0.71	1.5	1.3	∞
Liquid Conductivity (Measured)	2.88	Normal	1	0.78	0.71	2.2	2.0	43
Liquid Permittivity (Temperature Uncertainty)	1.13	Rectangular	√3	0.23	0.26	0.2	0.2	∞
Liquid Permittivity (Measured)	2.50	Normal	1	0.23	0.26	0.6	0.7	54
Combined Standard Uncertainty						± 12.5 %	± 12.3 %	
Expanded Uncertainty (K=2)						± 25.0 %	± 24.6 %	

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

FCC SAR Test Report

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

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

FCC SAR Test Report

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

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

7. Information on the Testing Laboratories

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

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

Taiwan HwaYa EMC/RF/Safety/Telecom Lab:

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

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Appendix A. SAR Plots of System Verification

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

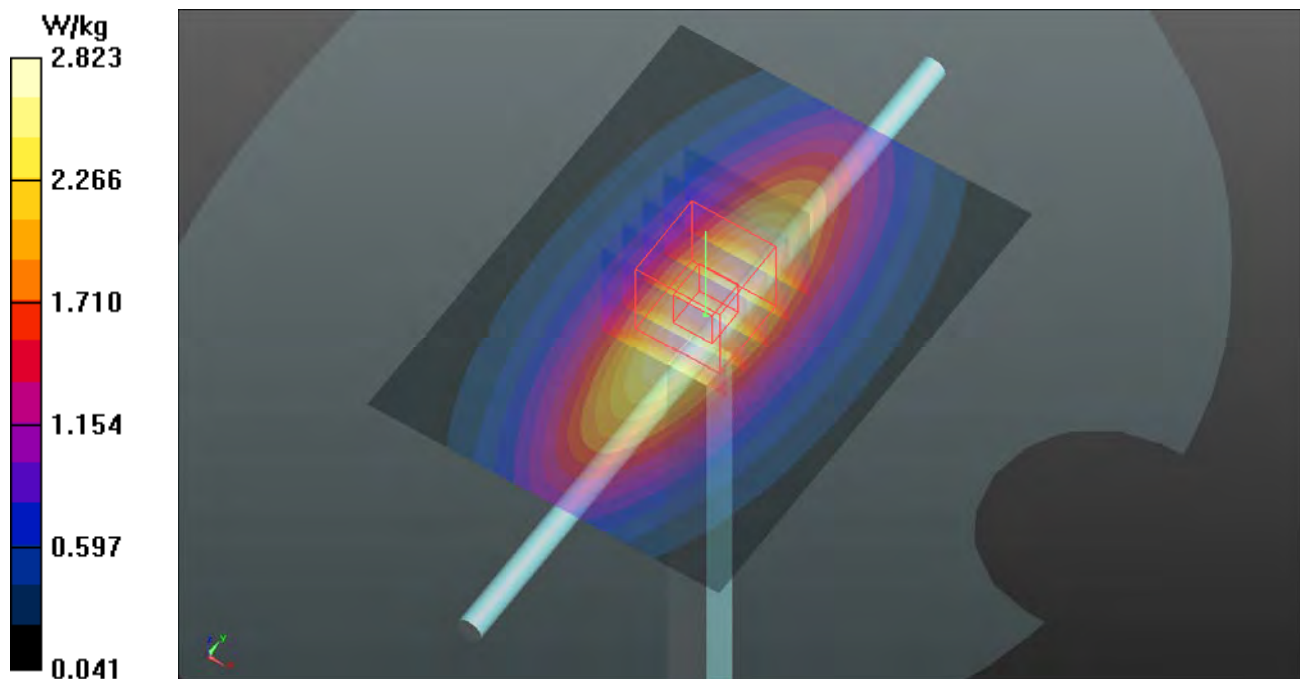
System Check_H750_171207**DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: H06T09N1_1207 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 43.198$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : $23.4 \text{ }^\circ\text{C}$; Liquid Temperature : $23.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(10.31, 10.31, 10.31); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 2.82 W/kg **Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 58.48 V/m ; Power Drift = -0.13 dB Peak SAR (extrapolated) = 3.21 W/kg **SAR(1 g) = 2.07 W/kg ; SAR(10 g) = 1.36 W/kg** Maximum value of SAR (measured) = 2.80 W/kg 

System Check_H835_171206

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

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: H07T10N2_1206 Medium parameters used: $f = 835$ MHz; $\sigma = 0.916$ S/m; $\epsilon_r = 42.395$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.17 W/kg

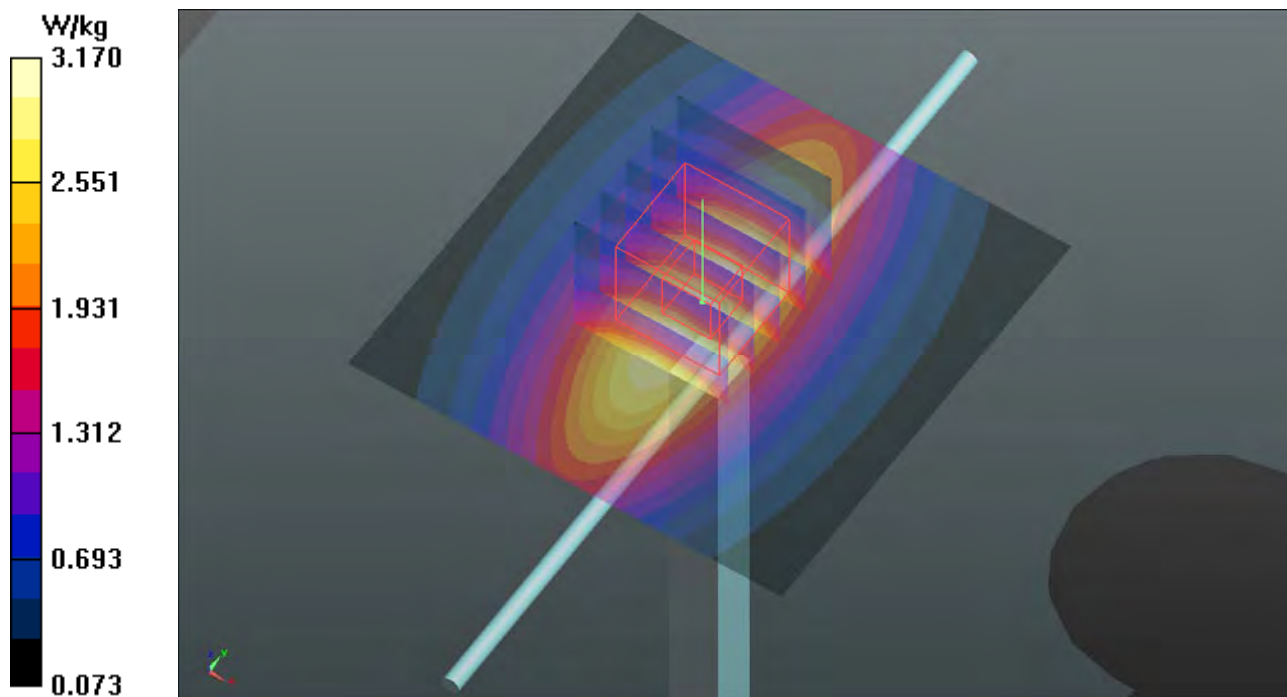
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.56 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.61 W/kg

SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 3.19 W/kg



System Check_H1750_171224

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

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: H16T20N1_1224 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 39.349$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.92, 8.92, 8.92); Calibrated: 2017/03/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2017/05/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.3 W/kg

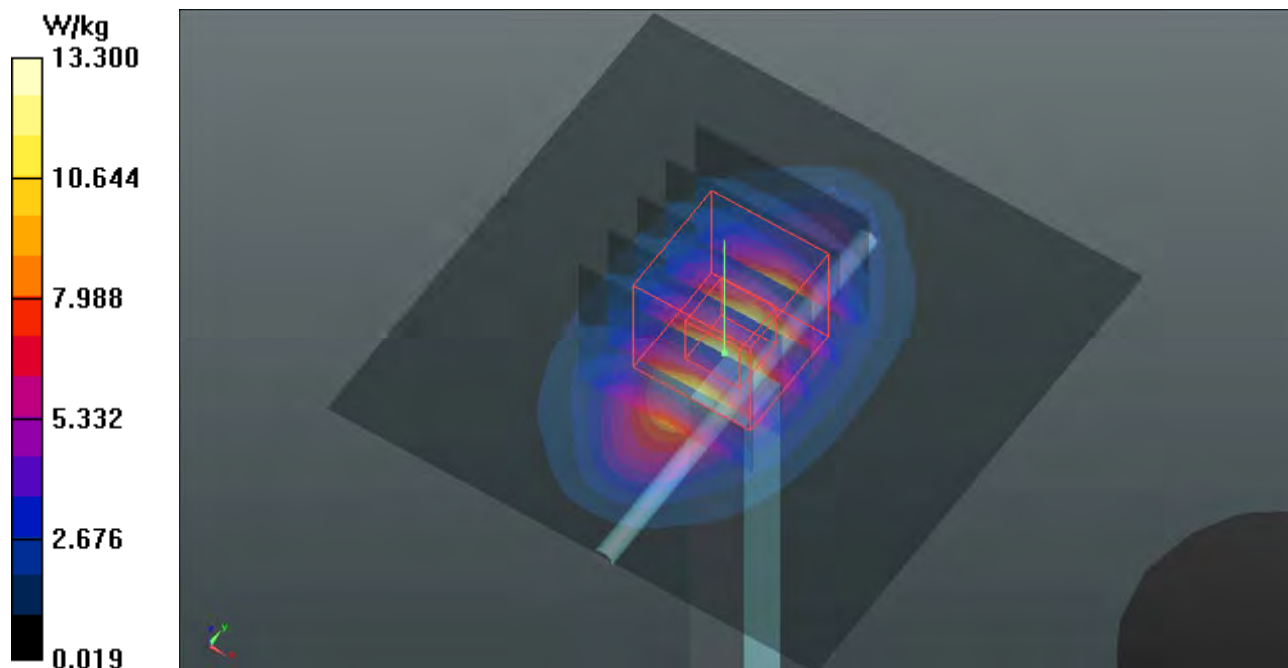
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 96.77 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 15.8 W/kg

SAR(1 g) = 8.58 W/kg; SAR(10 g) = 4.57 W/kg

Maximum value of SAR (measured) = 13.3 W/kg



System Check_H1900_171224

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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: H16T20N1_1224 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 38.759$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.59, 8.59, 8.59); Calibrated: 2017/03/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2017/05/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.8 W/kg

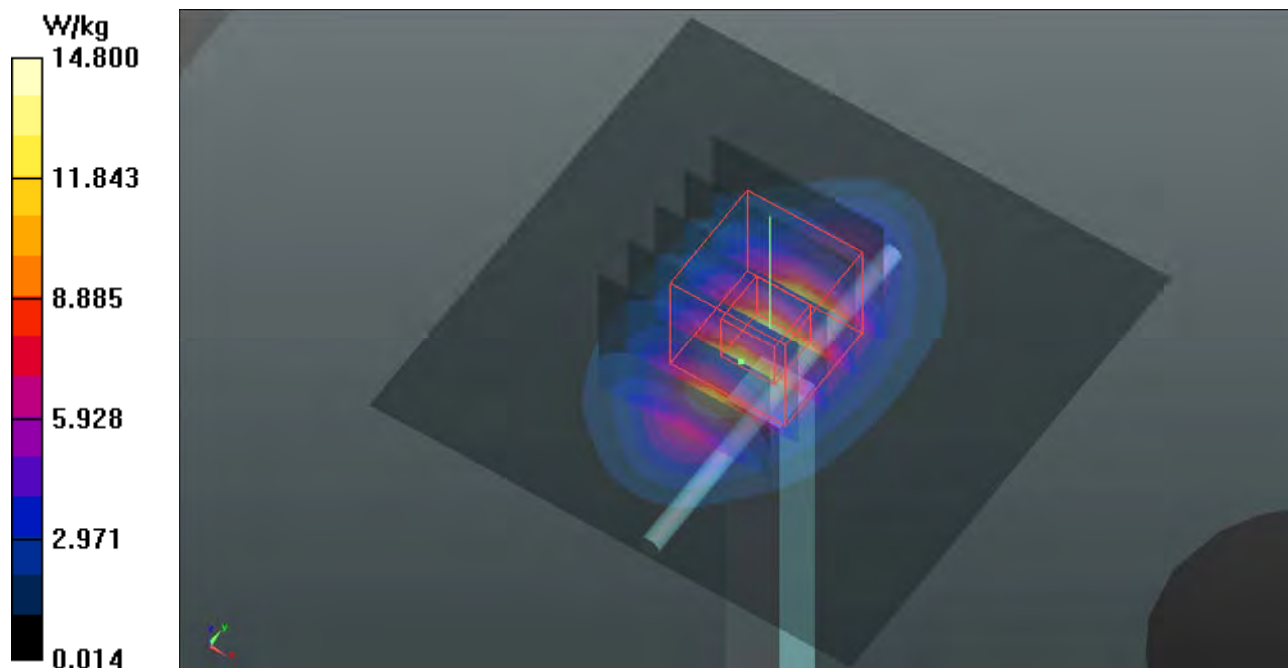
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 100.9 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 9.98 W/kg; SAR(10 g) = 5.17 W/kg

Maximum value of SAR (measured) = 14.3 W/kg



System Check_H2450_171220**DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H19T27N2_1220 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.864$ S/m; $\epsilon_r = 38.07$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.58, 7.58, 7.58); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 23.2 W/kg

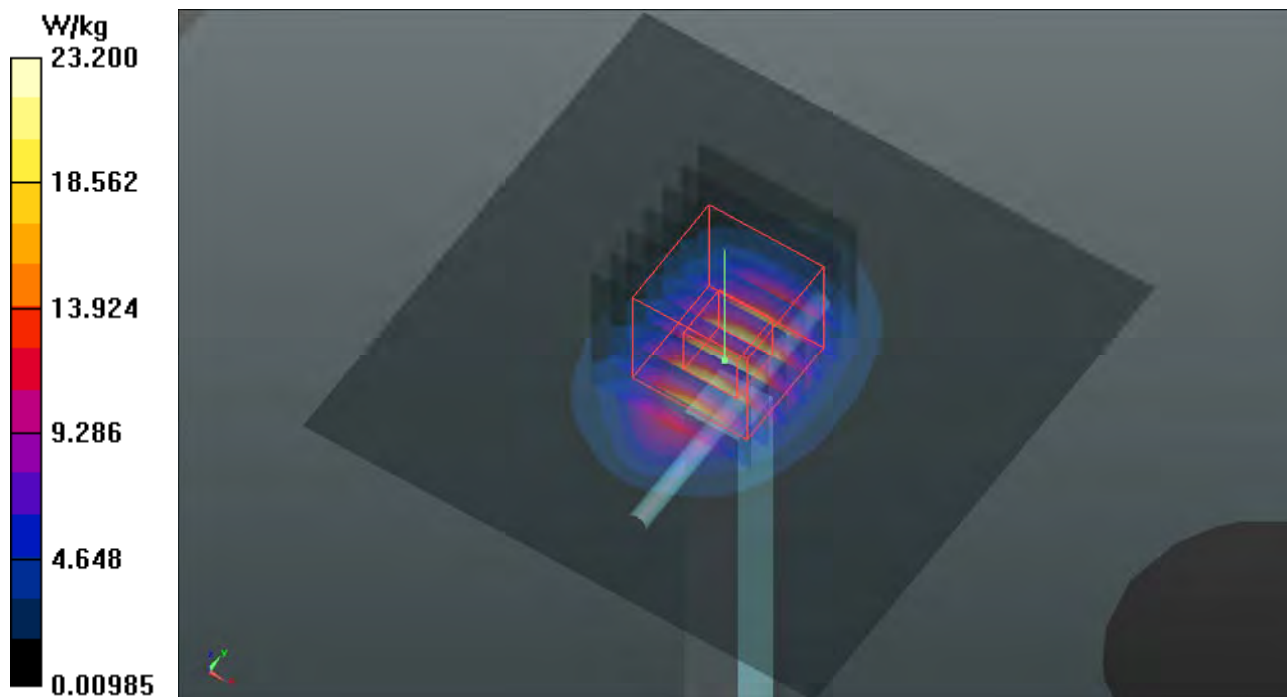
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.2 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 29.6 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.11 W/kg

Maximum value of SAR (measured) = 23.4 W/kg



System Check_H2600_171207**DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: H19T27N1_1112 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.001$ S/m; $\epsilon_r = 38.282$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.55, 7.55, 7.55); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 26.2 W/kg

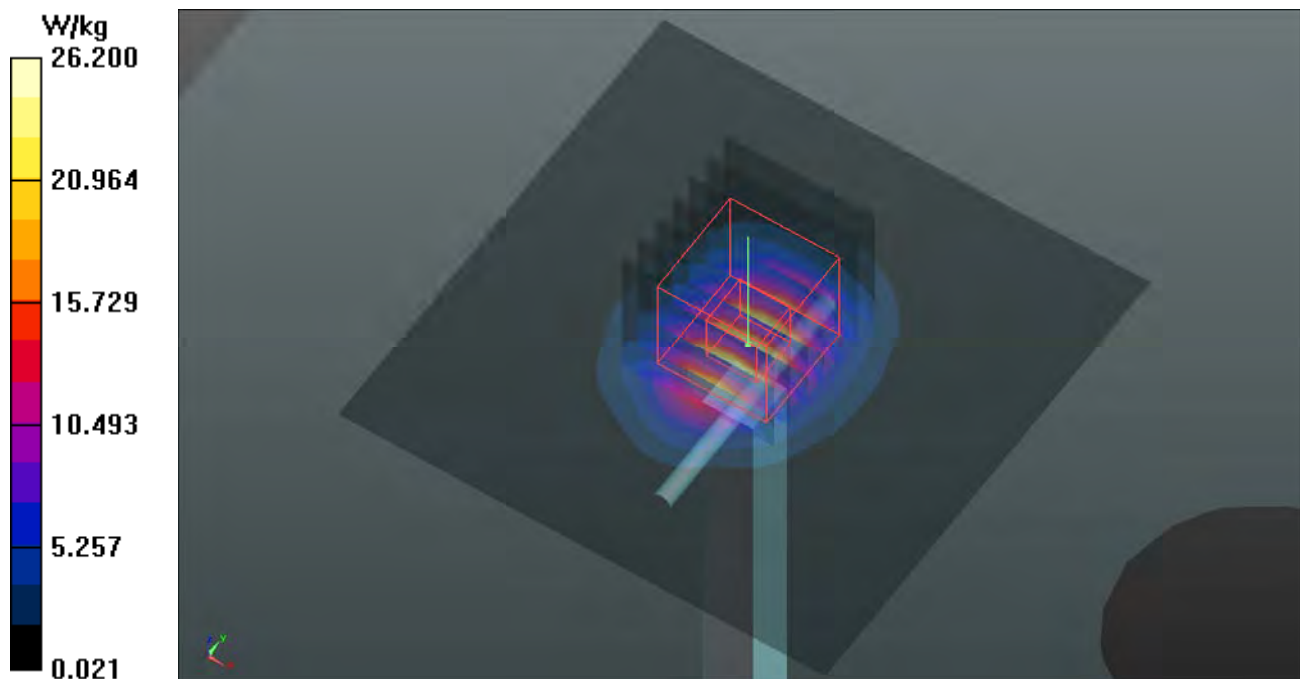
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 119.4 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 32.8 W/kg

SAR(1 g) = 14.7 W/kg; SAR(10 g) = 6.55 W/kg

Maximum value of SAR (measured) = 25.8 W/kg



System Check_H5250_171220**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: H34T60N1_1220 Medium parameters used: $f = 5300$ MHz; $\sigma = 4.789$ S/m; $\epsilon_r = 36.908$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.4, 4.4, 4.4); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1653; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.9 W/kg

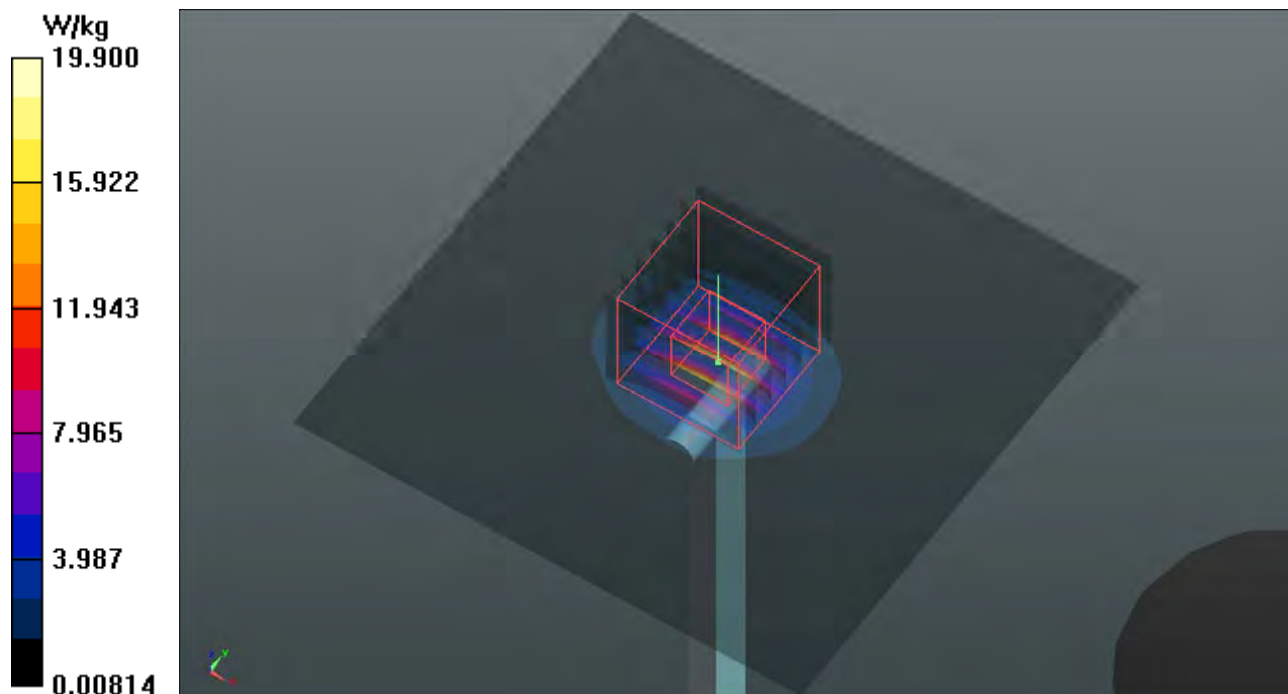
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 62.28 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 34.5 W/kg

SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.36 W/kg

Maximum value of SAR (measured) = 20.7 W/kg



System Check_H5600_171220**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: H34T60N1_1220 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.096$ S/m; $\epsilon_r = 36.498$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.95, 4.95, 4.95); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1653; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.3 W/kg

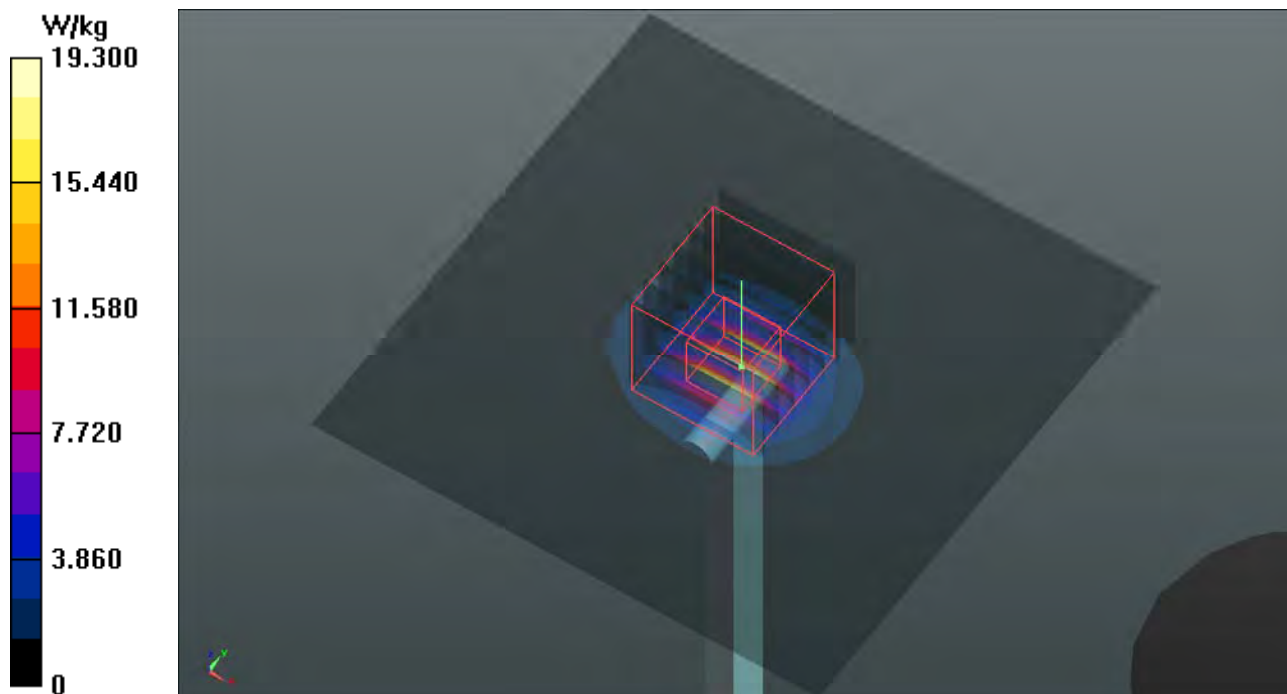
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 72.25 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 36.3 W/kg

SAR(1 g) = 8.41 W/kg; SAR(10 g) = 2.33 W/kg

Maximum value of SAR (measured) = 21.3 W/kg



System Check_H5800_171220**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: H34T60N1_1220 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.306$ S/m; $\epsilon_r = 36.224$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.3, 5.3, 5.3); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1653; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 20.2 W/kg

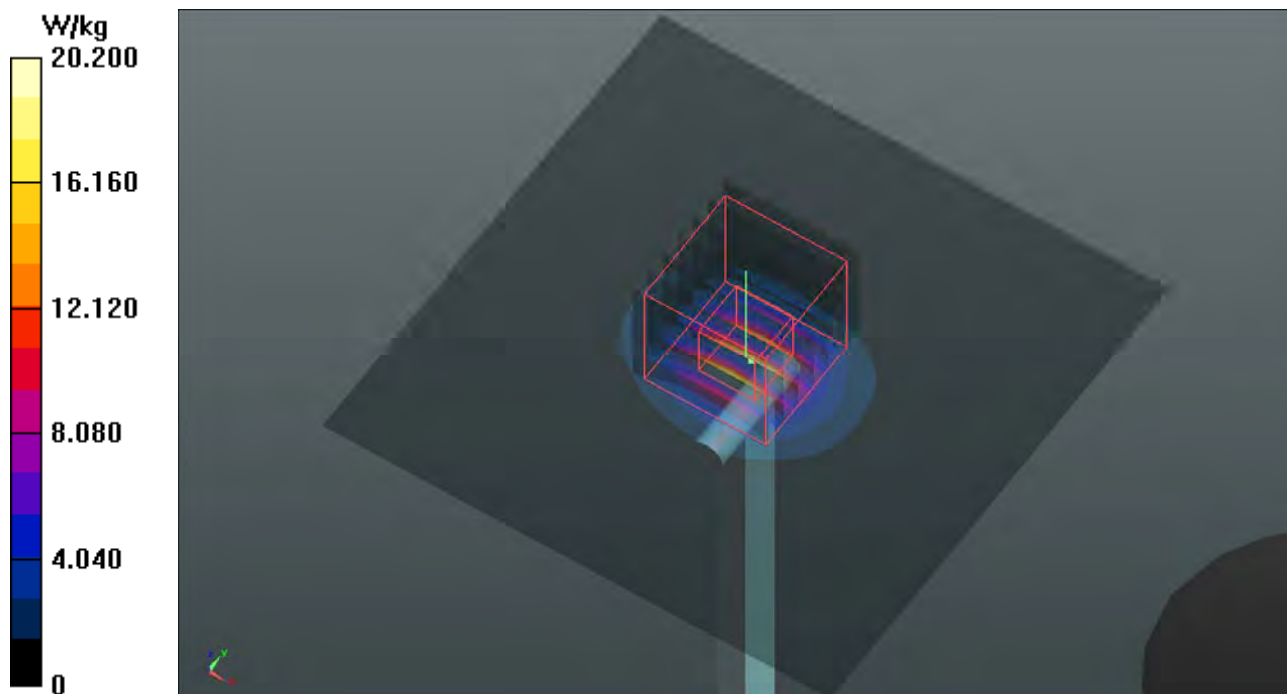
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 70.64 V/m; Power Drift = -1.10 dB

Peak SAR (extrapolated) = 37.4 W/kg

SAR(1 g) = 8.37 W/kg; SAR(10 g) = 2.39 W/kg

Maximum value of SAR (measured) = 21.6 W/kg



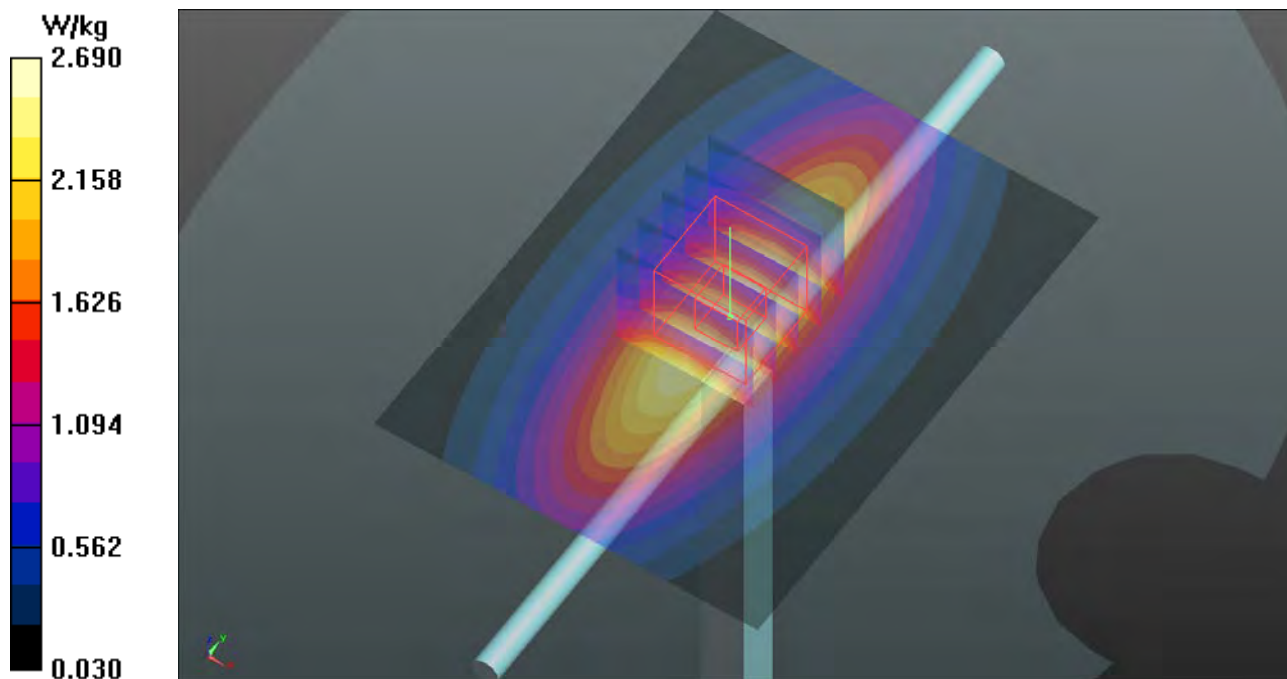
System Check_B750_171208**DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: B06T09N1_1208 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.959 \text{ S/m}$; $\epsilon_r = 54.477$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : $23.5 \text{ }^\circ\text{C}$; Liquid Temperature : $23.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.89, 9.89, 9.89); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 2.69 W/kg **Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 53.84 V/m ; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.11 W/kg **SAR(1 g) = 2.17 W/kg ; SAR(10 g) = 1.47 W/kg** Maximum value of SAR (measured) = 2.69 W/kg 

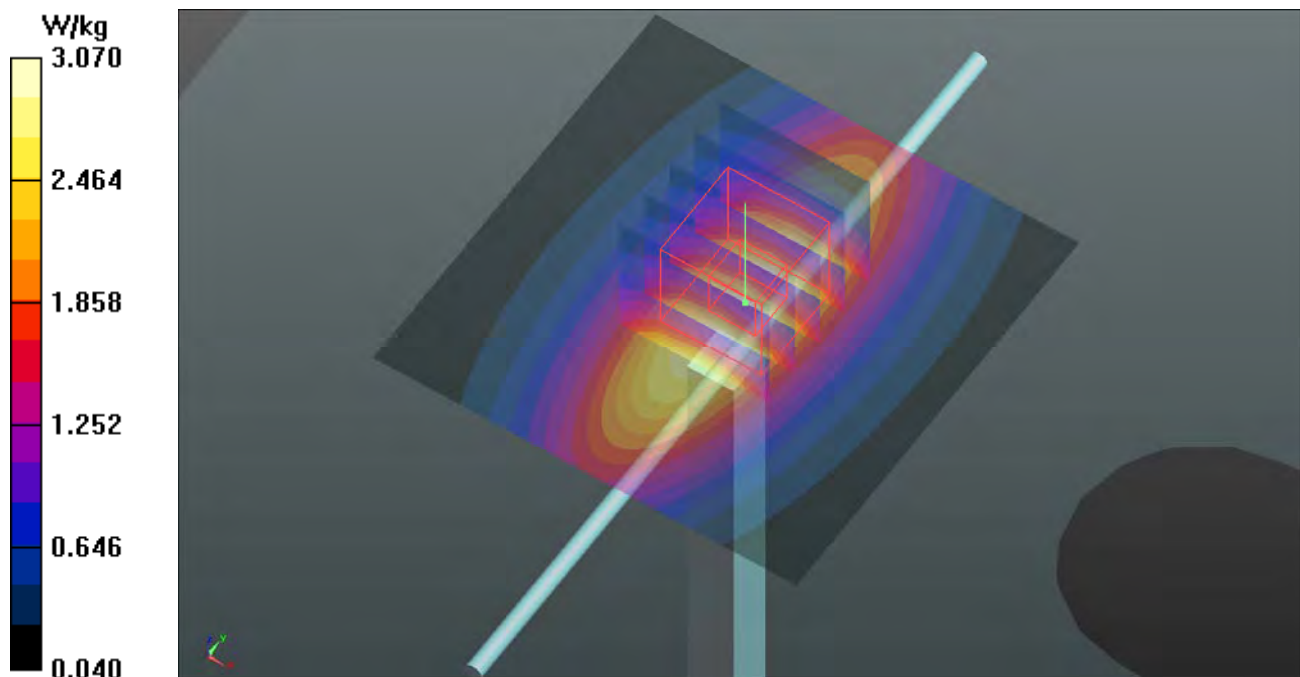
System Check_B835_171207**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: B07T10N1_1207 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.982 \text{ S/m}$; $\epsilon_r = 53.987$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : $23.5 \text{ }^\circ\text{C}$; Liquid Temperature : $23.3 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.76, 9.76, 9.76); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 3.07 W/kg **Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 51.95 V/m ; Power Drift = -0.13 dB Peak SAR (extrapolated) = 3.48 W/kg **SAR(1 g) = 2.3 W/kg ; SAR(10 g) = 1.51 W/kg** Maximum value of SAR (measured) = 3.08 W/kg 

System Check_B1750_171205**DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: B16T20N2_1205 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.438$ S/m; $\epsilon_r = 51.207$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(8.27, 8.27, 8.27); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2017/07/20
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.5 W/kg

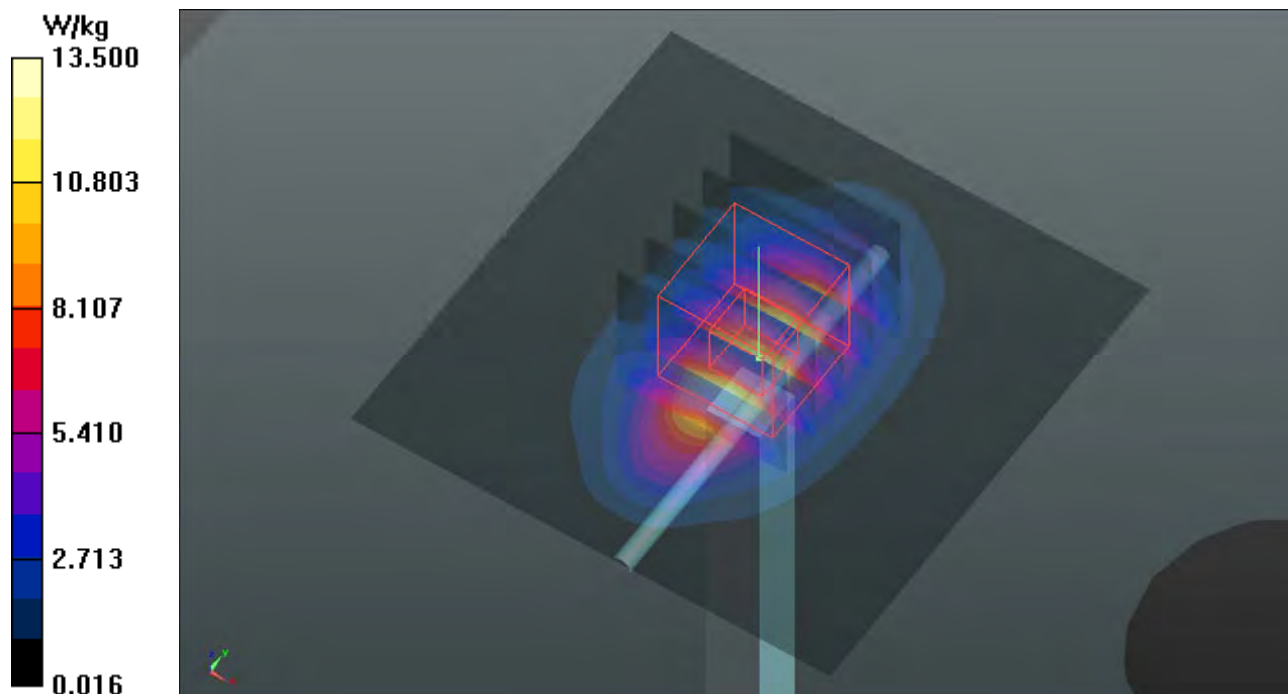
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 100.6 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 8.82 W/kg; SAR(10 g) = 4.7 W/kg

Maximum value of SAR (measured) = 13.4 W/kg



System Check_B1900_171218**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B16T20N2_1218 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.578$ S/m; $\epsilon_r = 51.14$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.01, 8.01, 8.01); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 15.0 W/kg

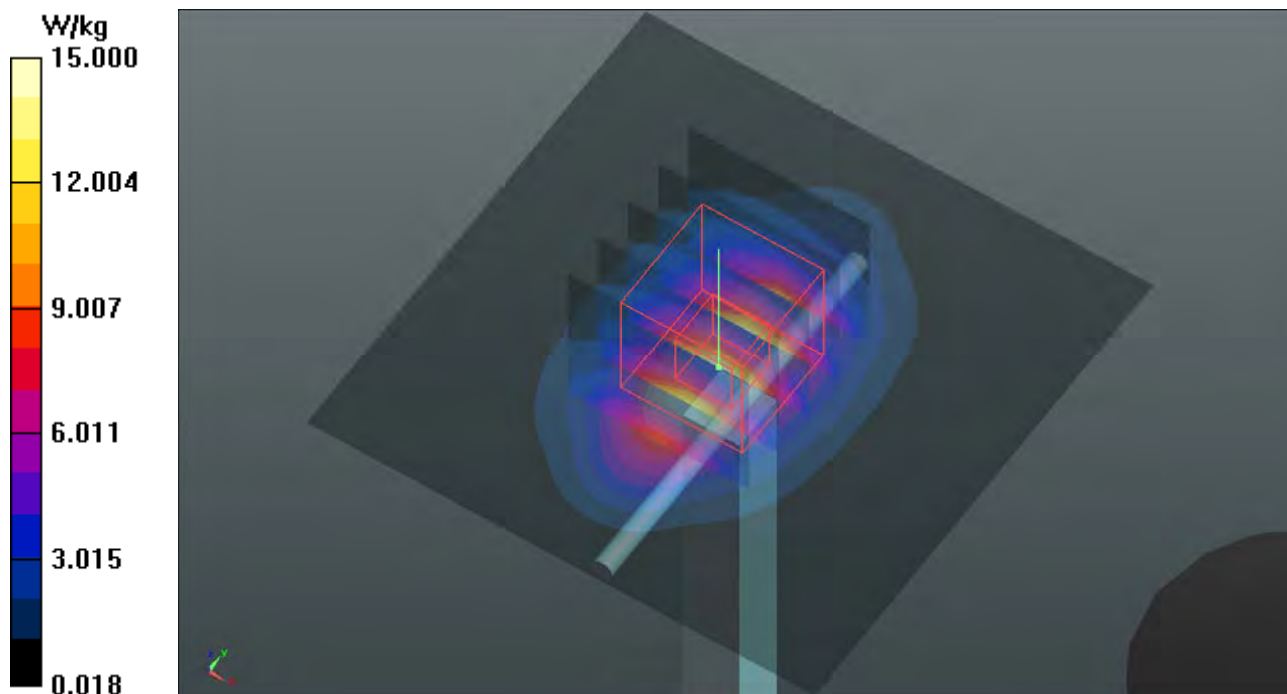
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 99.10 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.52 W/kg

Maximum value of SAR (measured) = 14.9 W/kg



System Check_B2450_171221**DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: B19T27N1_1221 Medium parameters used: $f = 2450$ MHz; $\sigma = 2.016$ S/m; $\epsilon_r = 51.542$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.68, 7.68, 7.68); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 18.7 W/kg

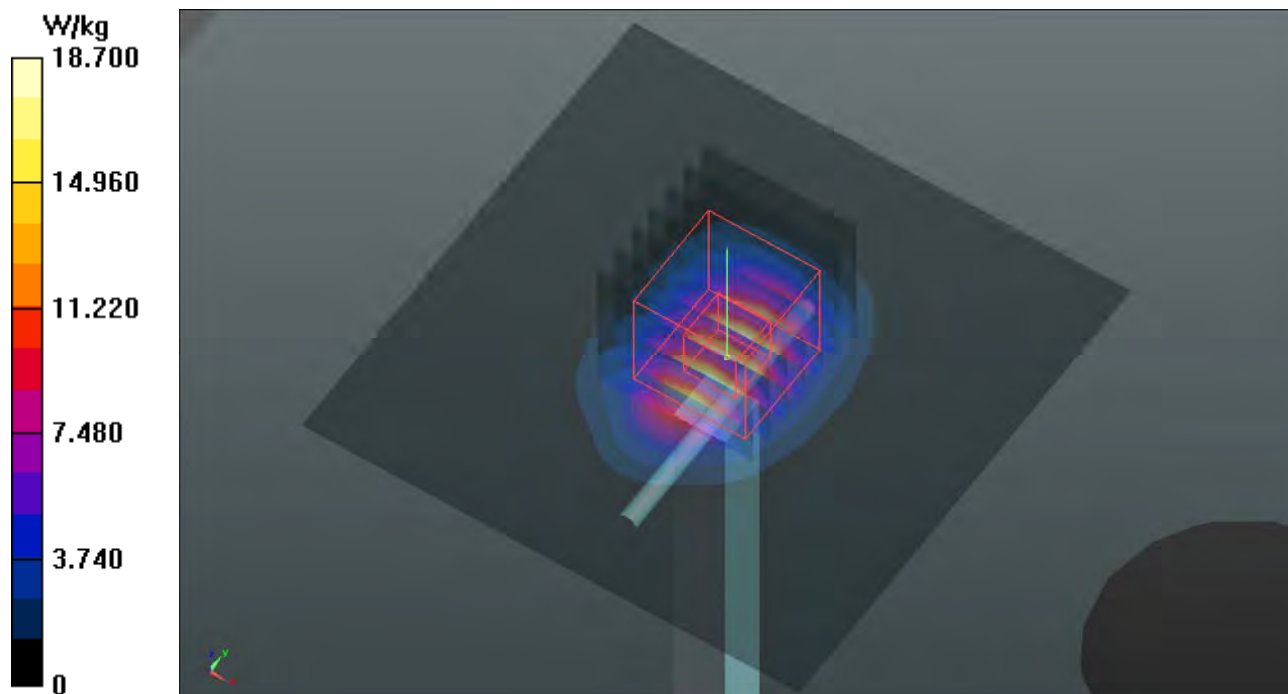
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.93 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 25.1 W/kg

SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.63 W/kg

Maximum value of SAR (measured) = 18.7 W/kg



System Check_B2600_171207**DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: B19T27N1_1207 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.194$ S/m; $\epsilon_r = 50.437$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.37, 7.37, 7.37); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 23.8 W/kg

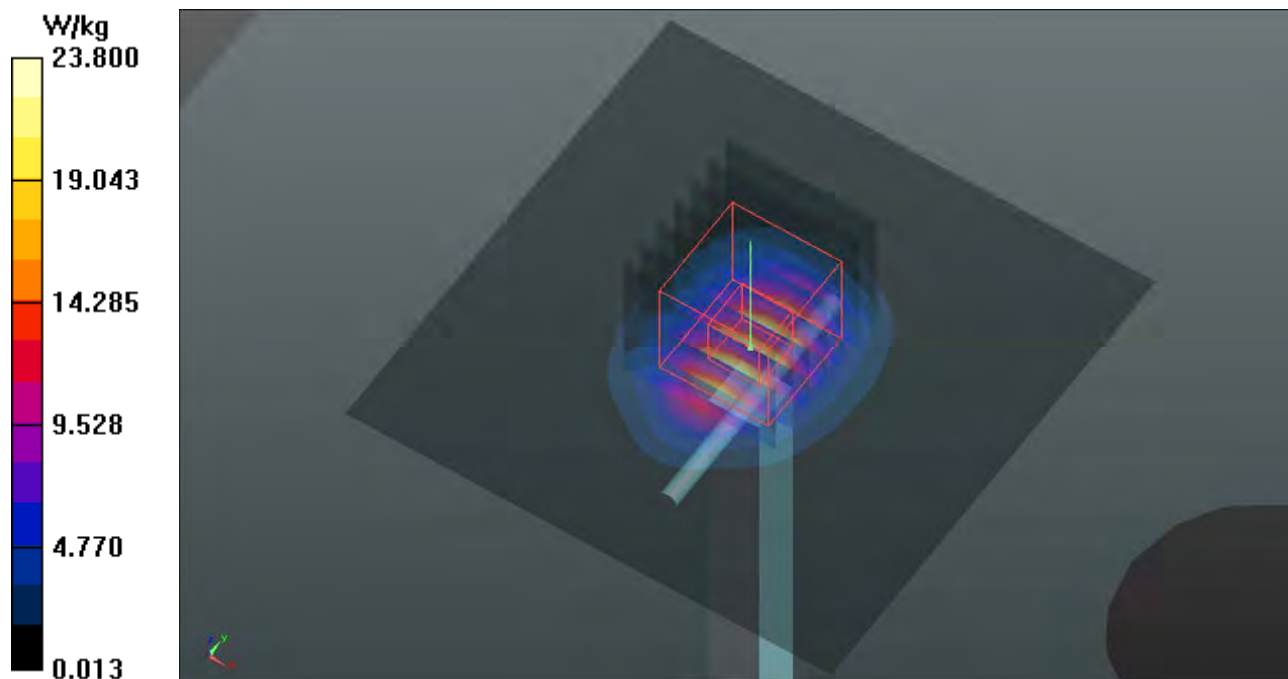
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.6 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 29.6 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.09 W/kg

Maximum value of SAR (measured) = 23.6 W/kg



System Check_B5250_171220**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.541$ S/m; $\epsilon_r = 46.822$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.18, 5.18, 5.18); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

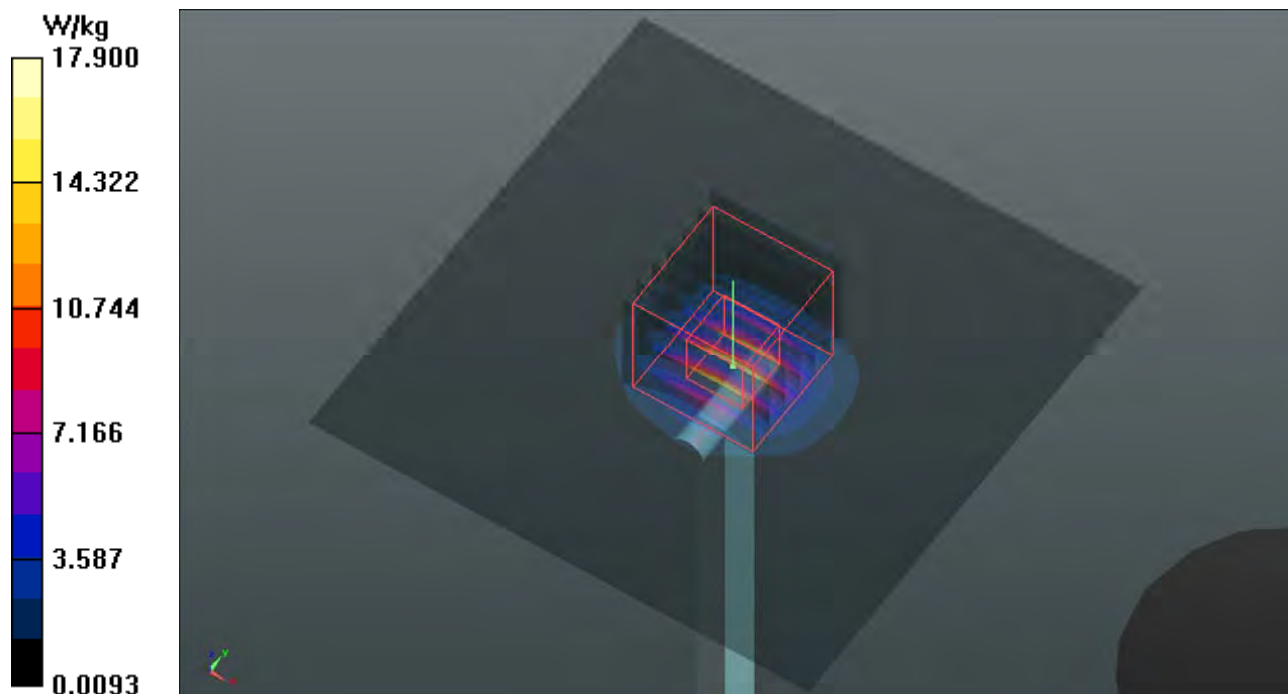
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.26 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 31.3 W/kg

SAR(1 g) = 7.69 W/kg; SAR(10 g) = 2.2 W/kg

Maximum value of SAR (measured) = 19.2 W/kg



System Check_B5600_171220**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.935$ S/m; $\epsilon_r = 46.347$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.33, 4.33, 4.33); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.7 W/kg

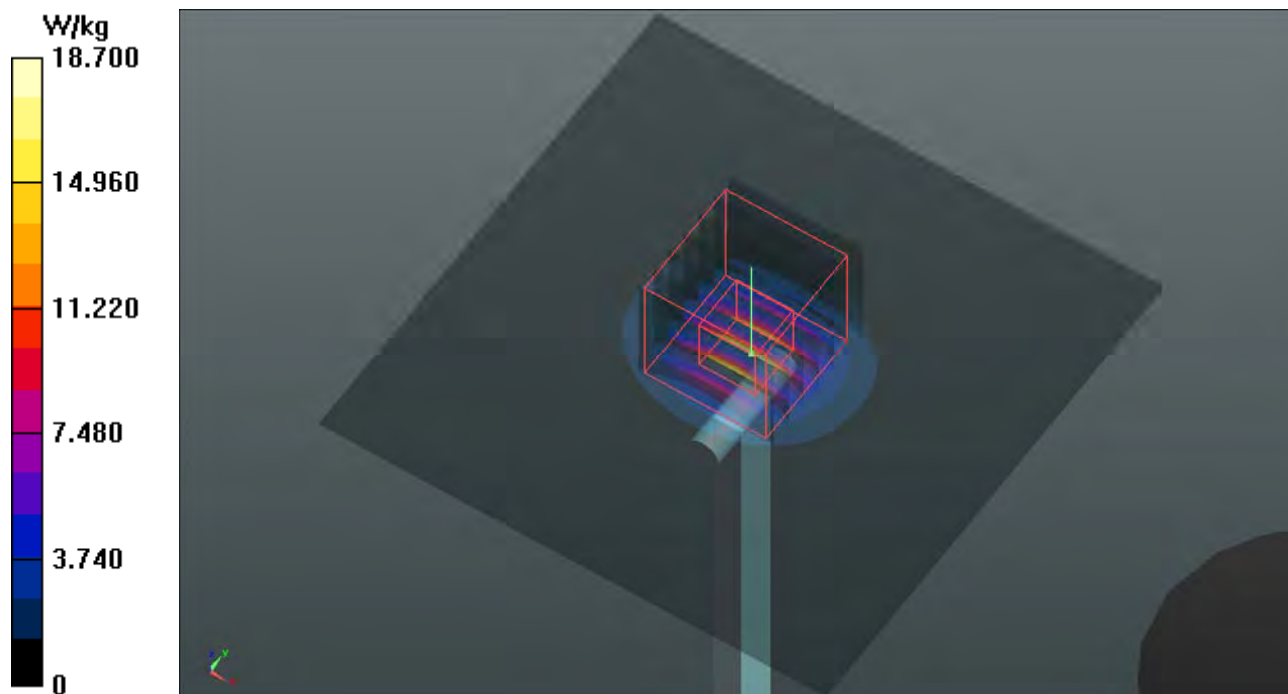
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 66.03 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 35.5 W/kg

SAR(1 g) = 8 W/kg; SAR(10 g) = 2.24 W/kg

Maximum value of SAR (measured) = 20.2 W/kg



System Check_B5800_171220**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5800$ MHz; $\sigma = 6.216$ S/m; $\epsilon_r = 45.997$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.69, 4.69, 4.69); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.2 W/kg

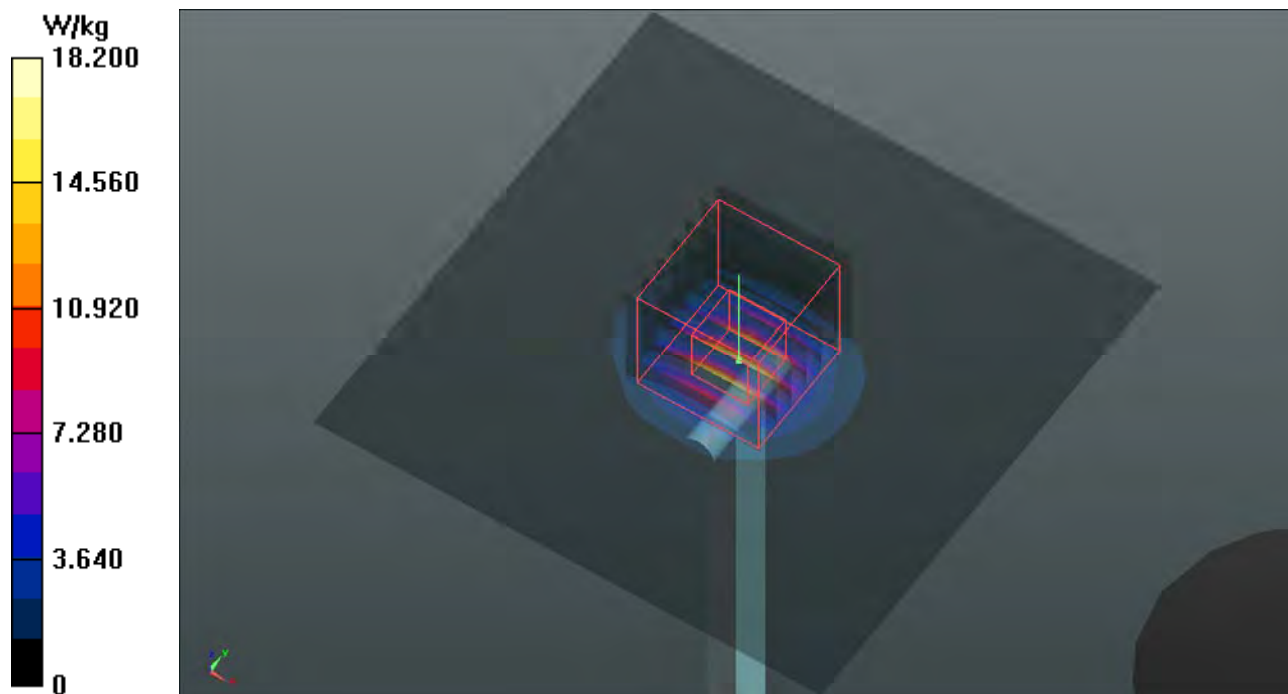
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 65.20 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 34.3 W/kg

SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 20.0 W/kg



System Check_B5250_171220**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.541$ S/m; $\epsilon_r = 46.822$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.18, 5.18, 5.18); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

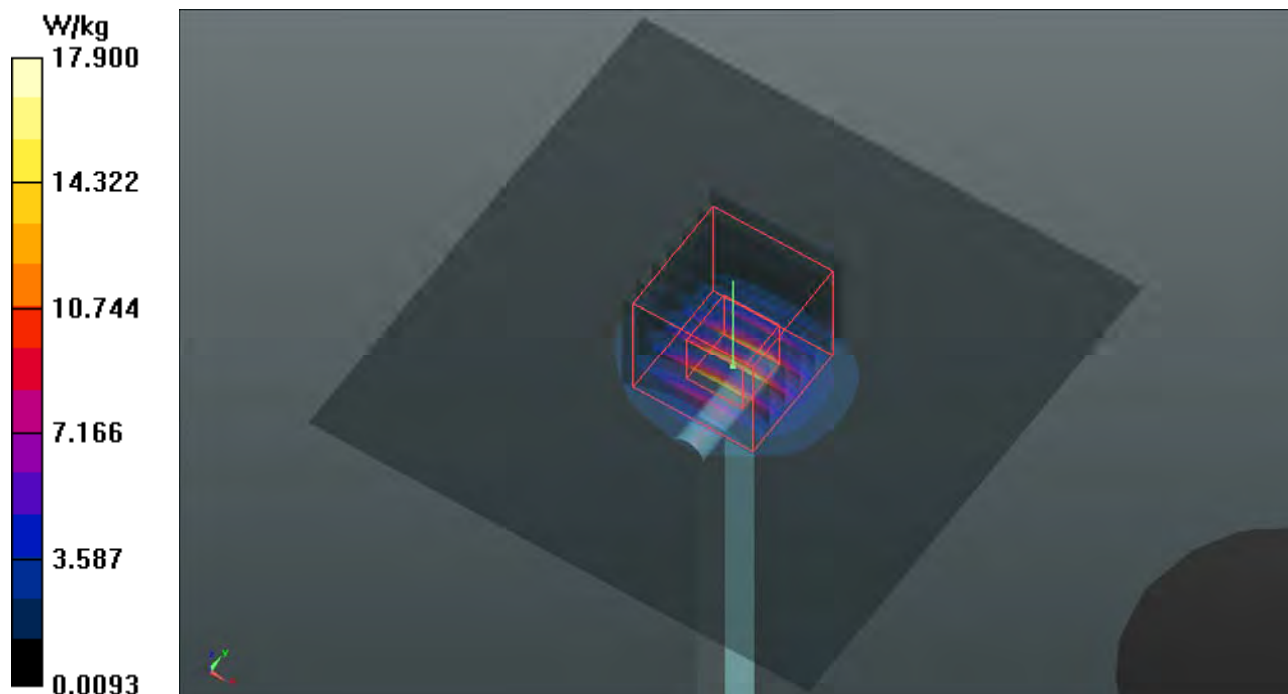
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.26 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 31.3 W/kg

SAR(1 g) = 7.69 W/kg; SAR(10 g) = 2.2 W/kg

Maximum value of SAR (measured) = 19.2 W/kg



System Check_B5600_171220**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.935$ S/m; $\epsilon_r = 46.347$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.33, 4.33, 4.33); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.7 W/kg

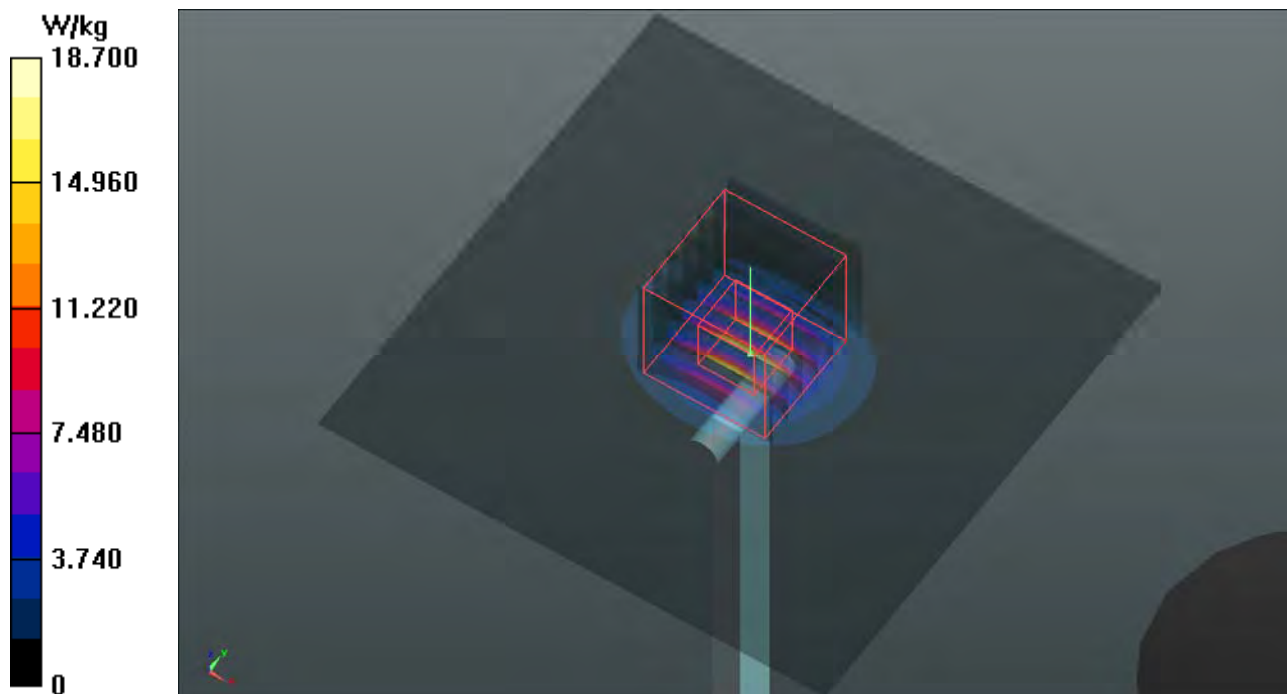
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 66.03 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 35.5 W/kg

SAR(1 g) = 8 W/kg; SAR(10 g) = 2.24 W/kg

Maximum value of SAR (measured) = 20.2 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.

P01 GSM850_GPRS8_Right Cheek_Ch189**DUT: 171122C17**

Communication System: GPRS8; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: H07T10N2_1206 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.917$ S/m; $\epsilon_r = 42.38$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.472 W/kg

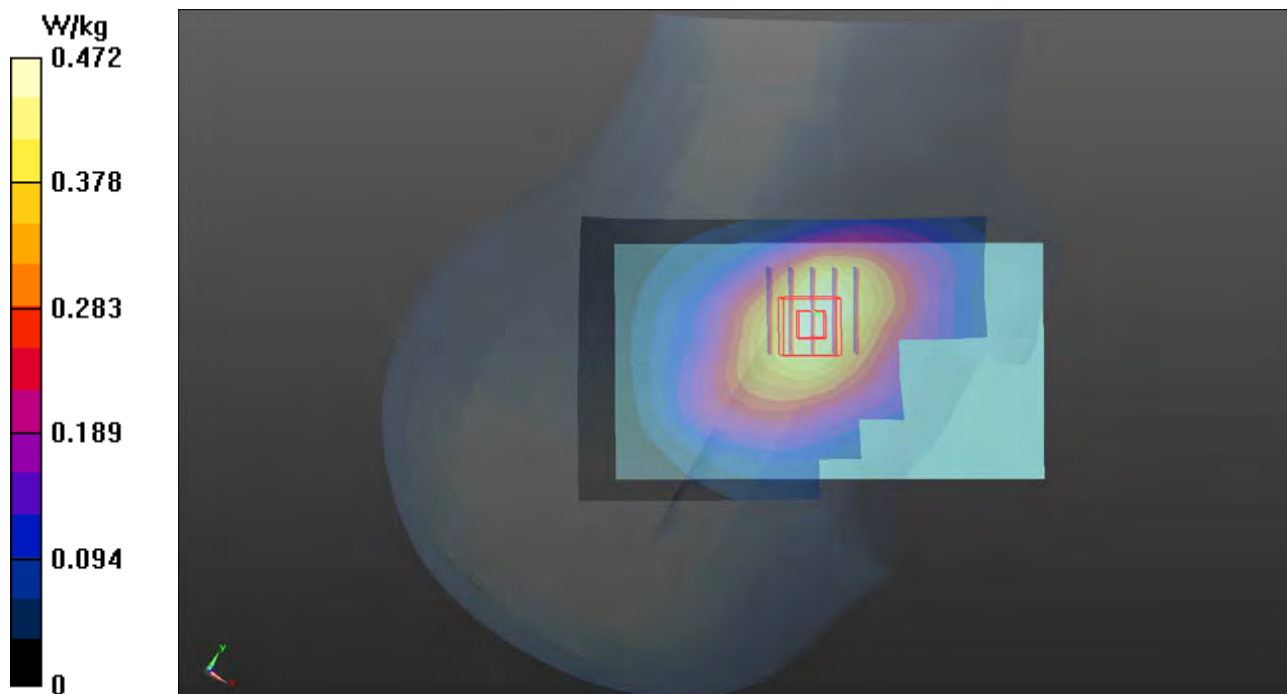
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.72 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.491 W/kg

SAR(1 g) = 0.323 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.458 W/kg



P02 GSM1900_GPRS10_Left Cheek_Ch810**DUT: 171122C17**

Communication System: GPRS10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: H16T20N1_1206 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.463$ S/m; $\epsilon_r = 39.593$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.21, 8.21, 8.21); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.444 W/kg

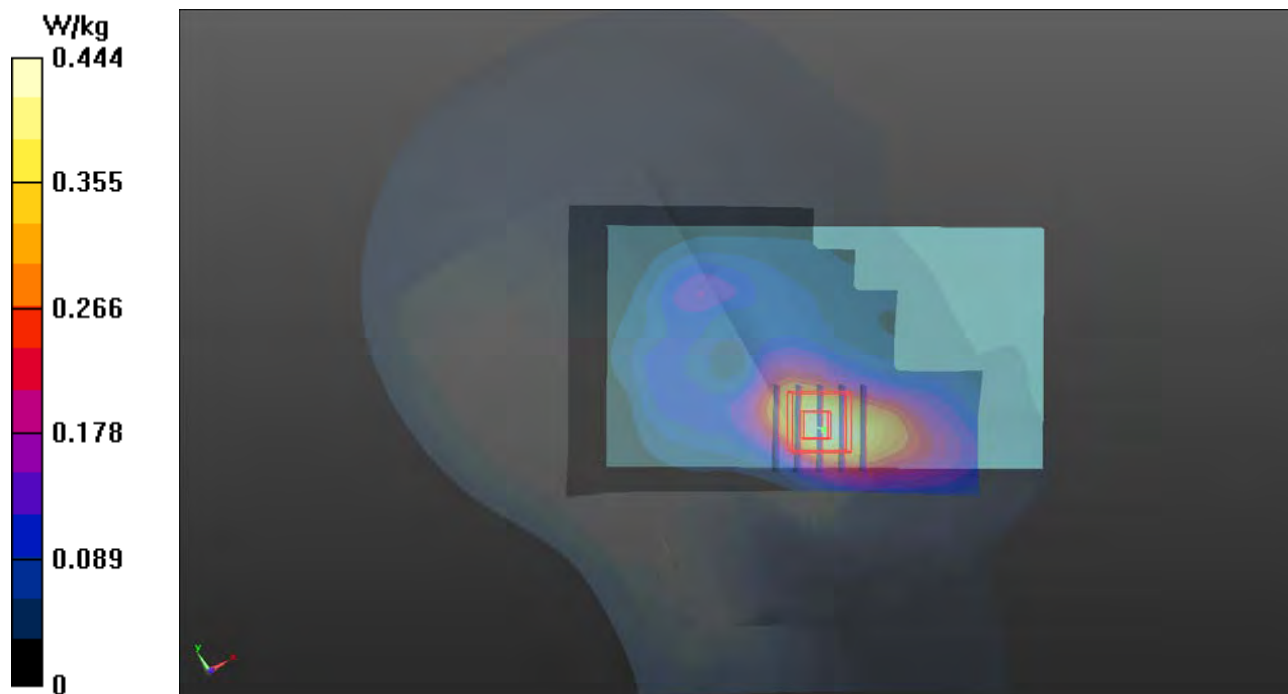
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.07 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.513 W/kg

SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 0.447 W/kg



P03 WCDMA II_RMC12.2K_Left Cheek_Ch9538**DUT: 171122C17**

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: H16T20N1_1224 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.468$ S/m; $\epsilon_r = 38.729$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.59, 8.59, 8.59); Calibrated: 2017/03/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2017/05/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.885 W/kg

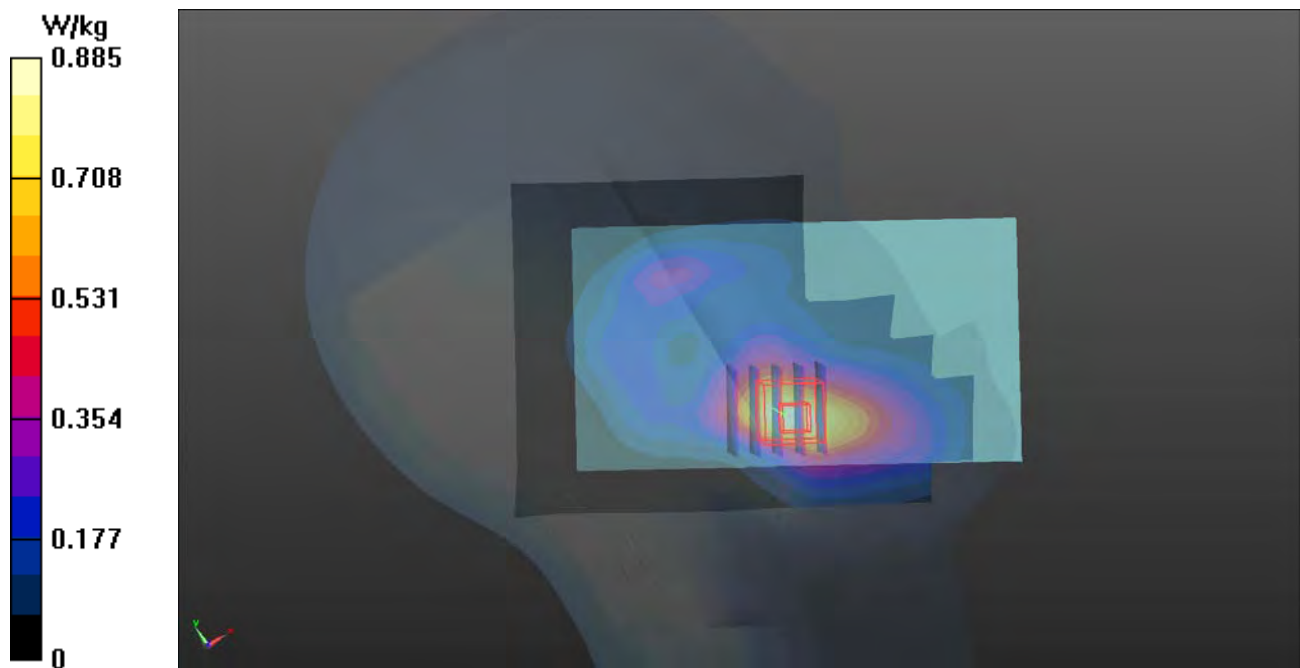
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.80 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.925 W/kg

SAR(1 g) = 0.602 W/kg; SAR(10 g) = 0.377 W/kg

Maximum value of SAR (measured) = 0.794 W/kg



P04 WCDMA IV_RMC12.2K_Left Cheek_Ch1312**DUT: 171122C17**

Communication System: WCDMA; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium: H16T20N1_1224 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.29$ S/m; $\epsilon_r = 39.43$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.92, 8.92, 8.92); Calibrated: 2017/03/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2017/05/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.828 W/kg

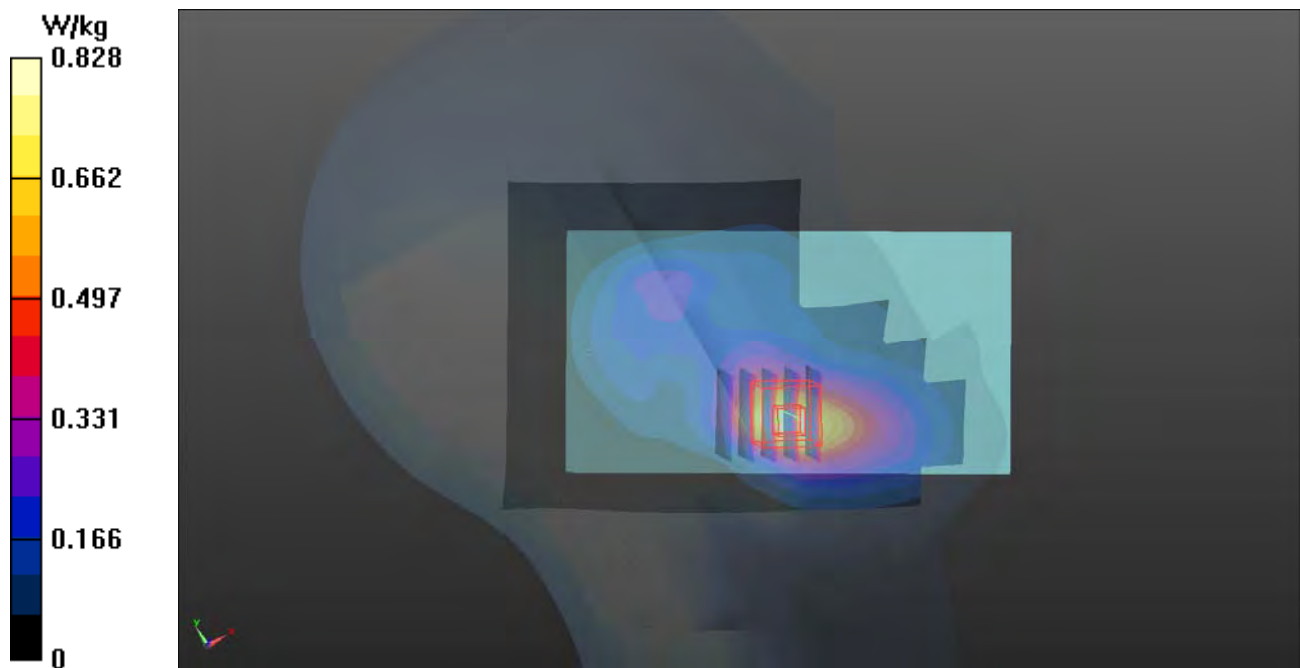
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.54 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.864 W/kg

SAR(1 g) = 0.573 W/kg; SAR(10 g) = 0.364 W/kg

Maximum value of SAR (measured) = 0.754 W/kg



P05 WCDMA V_RMC12.2K_Right Cheek_Ch4233**DUT: 171122C17**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: H07T10N2_1206 Medium parameters used: $f = 847$ MHz; $\sigma = 0.926$ S/m; $\epsilon_r = 42.255$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.581 W/kg

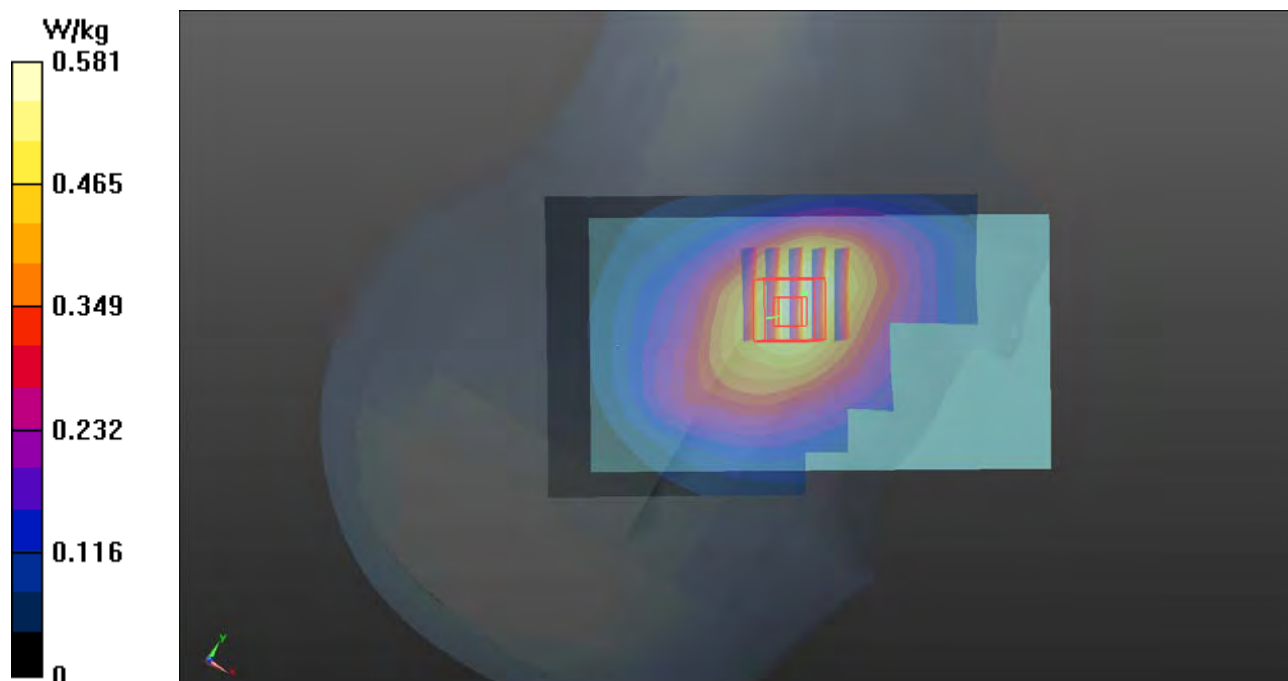
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.09 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.605 W/kg

SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.389 W/kg

Maximum value of SAR (measured) = 0.569 W/kg



P06 CDMA2000 BC0_RC3+SO55_Right Cheek_Ch777**DUT: 171122C17**

Communication System: CDMA2000; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: H07T10N2_1206 Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 42.236$; ρ $= 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.591 W/kg

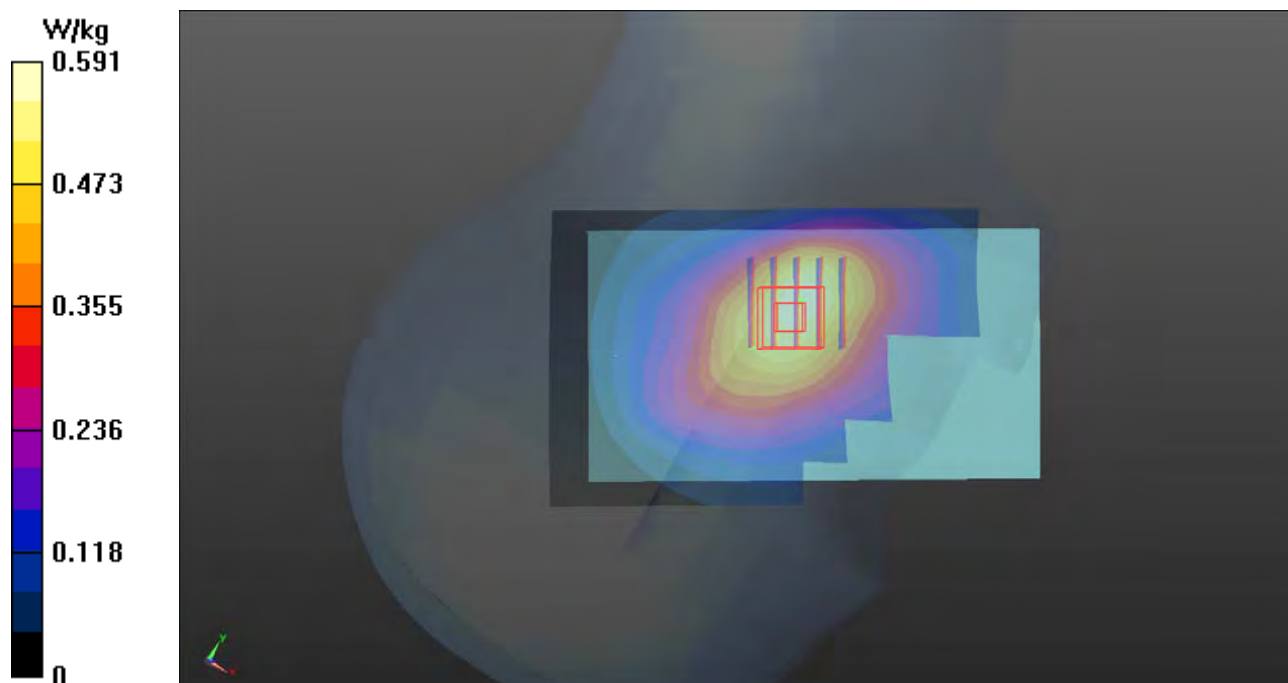
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.41 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.616 W/kg

SAR(1 g) = 0.499 W/kg; SAR(10 g) = 0.392 W/kg

Maximum value of SAR (measured) = 0.577 W/kg



P07 CDMA BC1_RC3+SO55_Left Cheek_Ch25**DUT: 171122C17**

Communication System: CDMA2000; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: H16T20N1_1224 Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 38.923$; ρ $= 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.59, 8.59, 8.59); Calibrated: 2017/03/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2017/05/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.633 W/kg

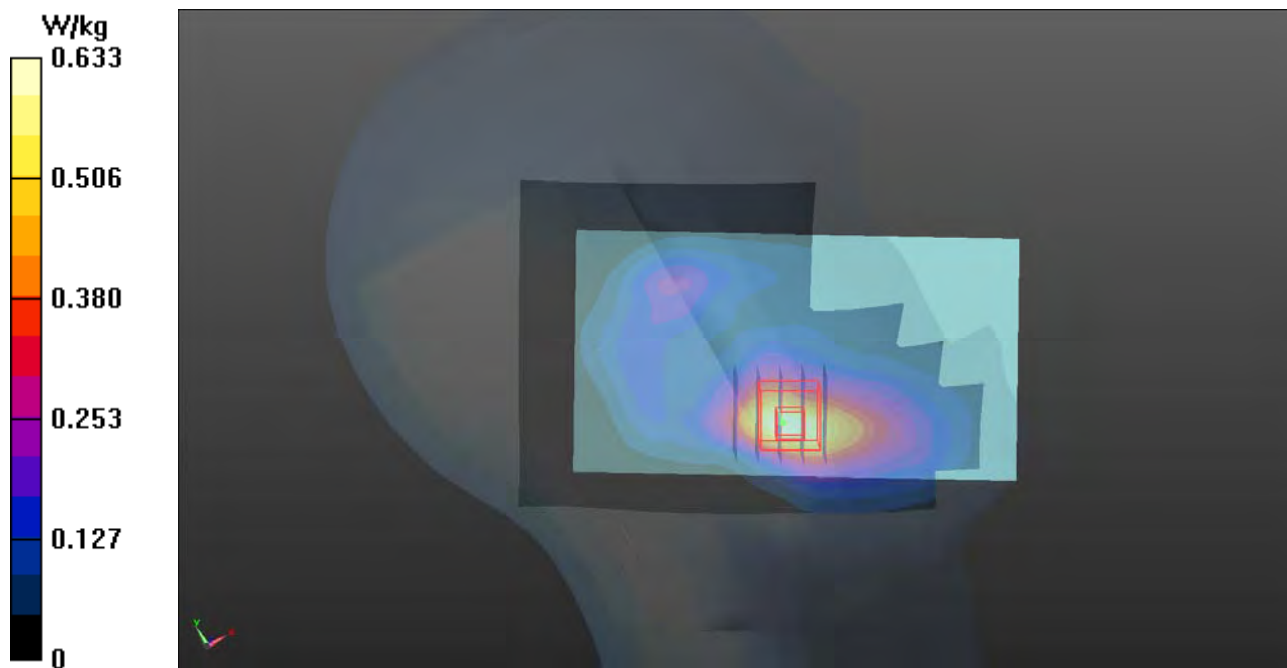
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.07 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.656 W/kg

SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.266 W/kg

Maximum value of SAR (measured) = 0.568 W/kg



P08 CDMA2000 BC10_RC3+SO55_Right Cheek_Ch684**DUT: 171122C17**

Communication System: CDMA2000; Frequency: 823.1 MHz; Duty Cycle: 1:1

Medium: H07T10N2_1206 Medium parameters used: $f = 823.1$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 42.542$; ρ $= 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.478 W/kg

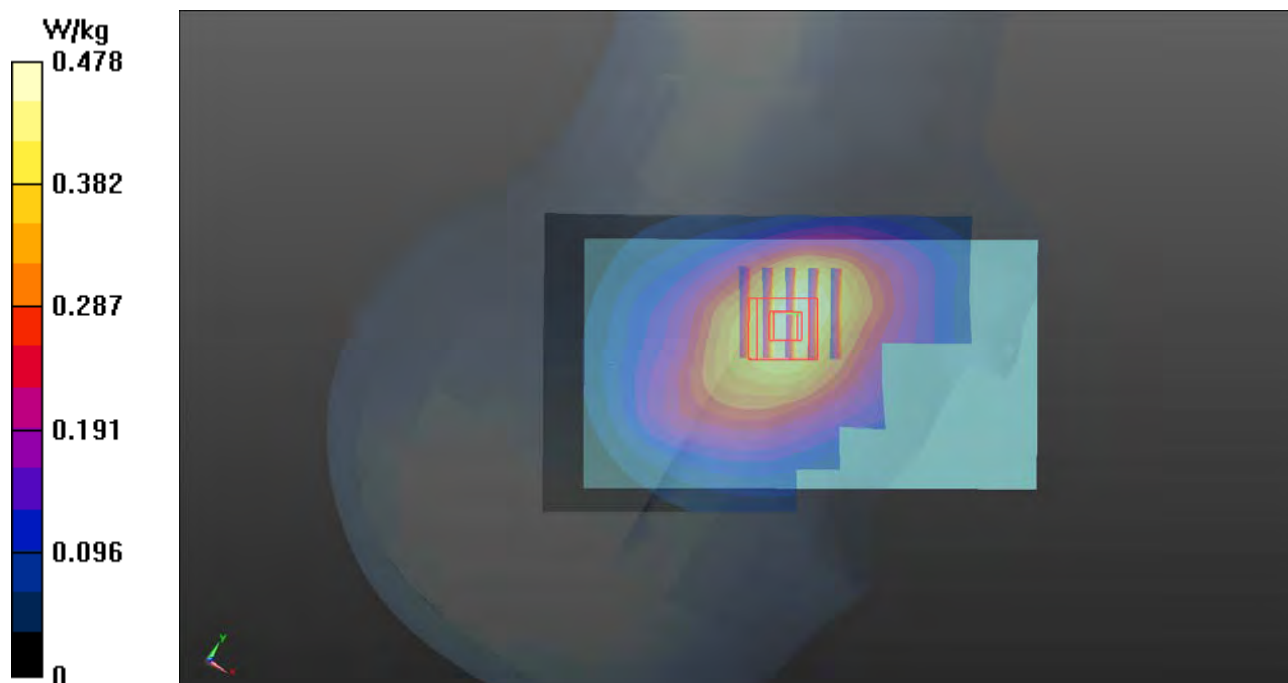
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.04 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.502 W/kg

SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.323 W/kg

Maximum value of SAR (measured) = 0.464 W/kg



P09 LTE 2_QPSK20M_Left Cheek_Ch18900_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: H16T20N1_1206 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.437$ S/m; $\epsilon_r = 39.671$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.21, 8.21, 8.21); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.943 W/kg

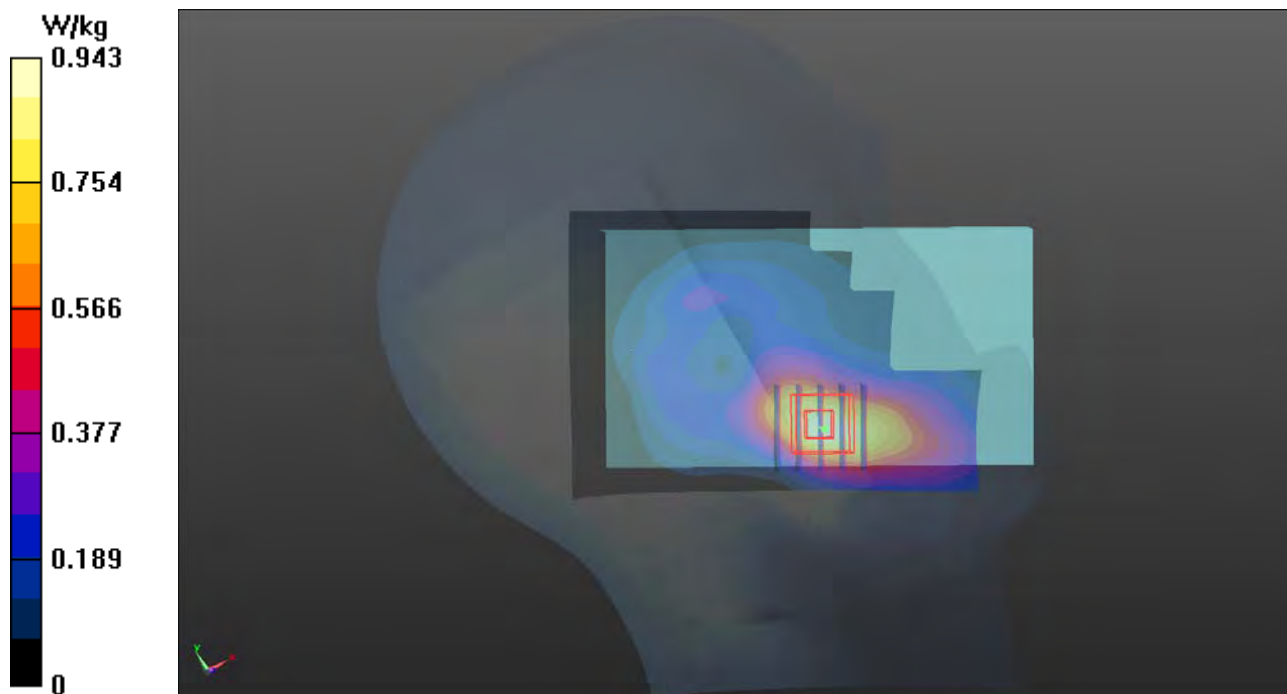
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.13 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.447 W/kg

Maximum value of SAR (measured) = 0.942 W/kg



P10 LTE 4_QPSK20M_Left Cheek_Ch20050_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: H16T20N1_1206 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.305$ S/m; $\epsilon_r = 40.285$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.52, 8.52, 8.52); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.852 W/kg

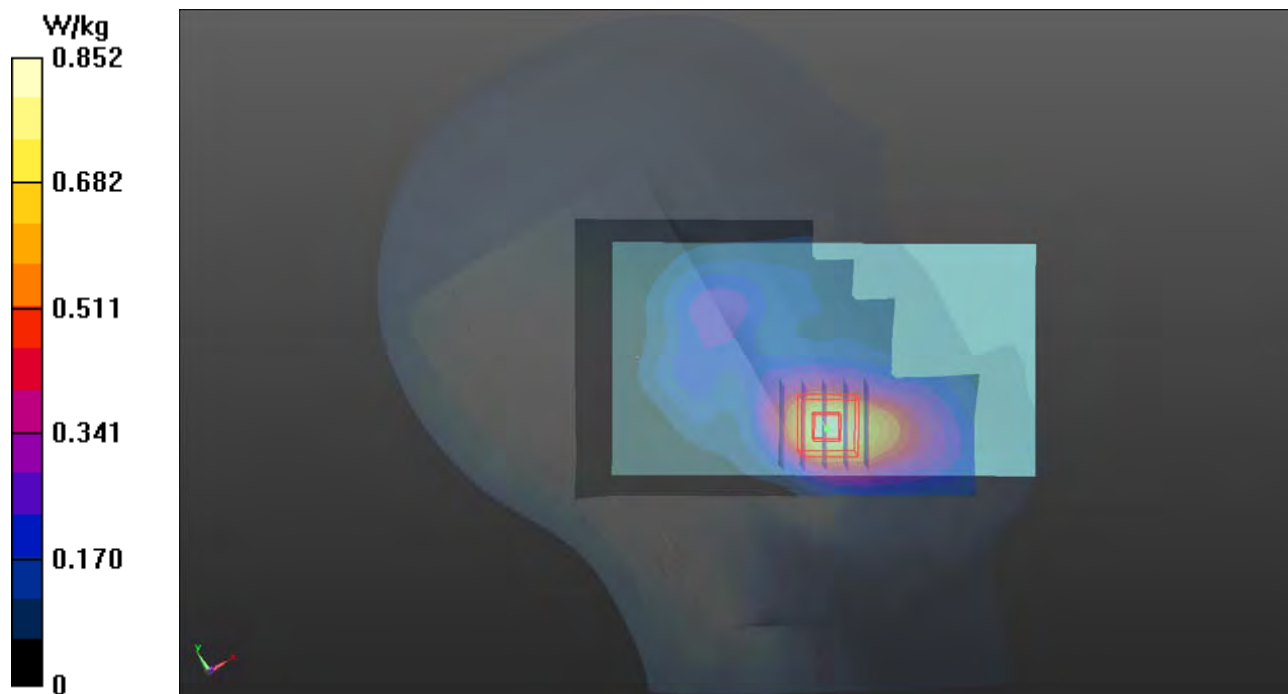
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.60 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.982 W/kg

SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.416 W/kg

Maximum value of SAR (measured) = 0.872 W/kg



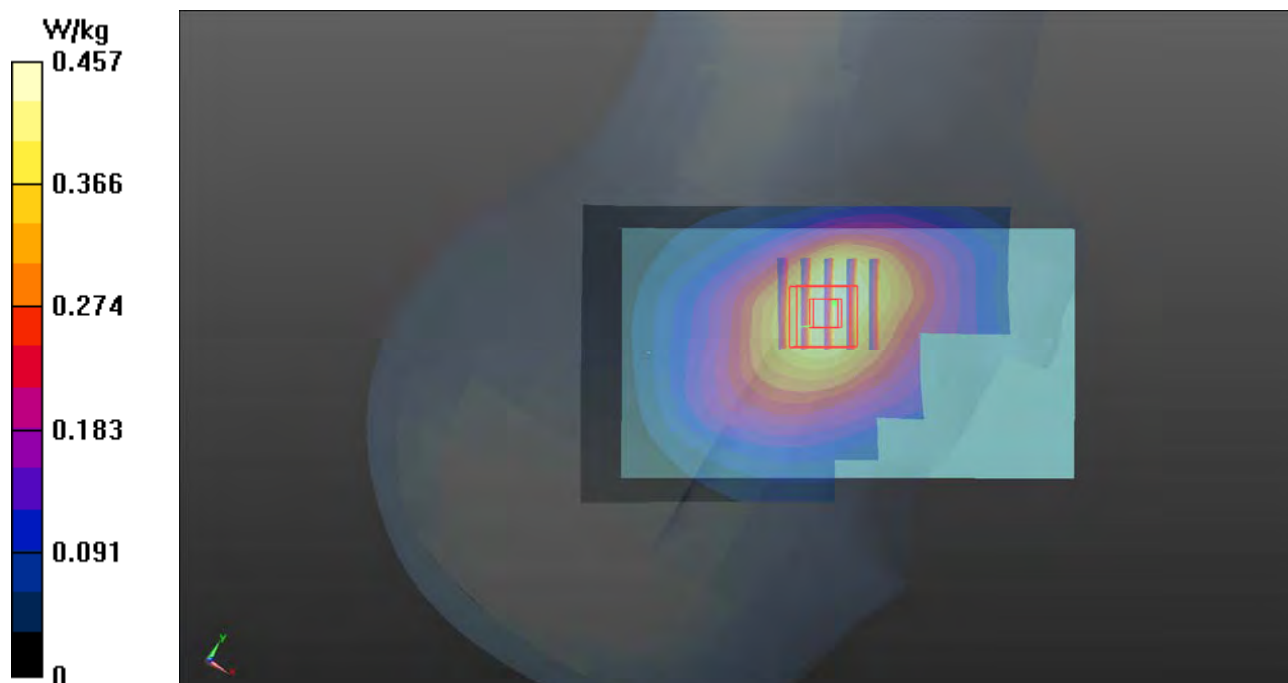
P11 LTE 5_QPSK10M_Right Cheek_Ch20600_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 844 MHz; Duty Cycle: 1:1

Medium: H07T10N2_1206 Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.923 \text{ S/m}$; $\epsilon_r = 42.286$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : $23.6 \text{ }^\circ\text{C}$; Liquid Temperature : $23.4 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.457 W/kg **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 22.37 V/m ; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.478 W/kg **SAR(1 g) = 0.385 W/kg ; SAR(10 g) = 0.303 W/kg** Maximum value of SAR (measured) = 0.442 W/kg 

P12 LTE 7_QPSK20M_Left Cheek_Ch21100_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: H19T27N1_1207 Medium parameters used: $f = 2535$ MHz; $\sigma = 1.945$ S/m; $\epsilon_r = 38.405$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.55, 7.55, 7.55); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.476 W/kg

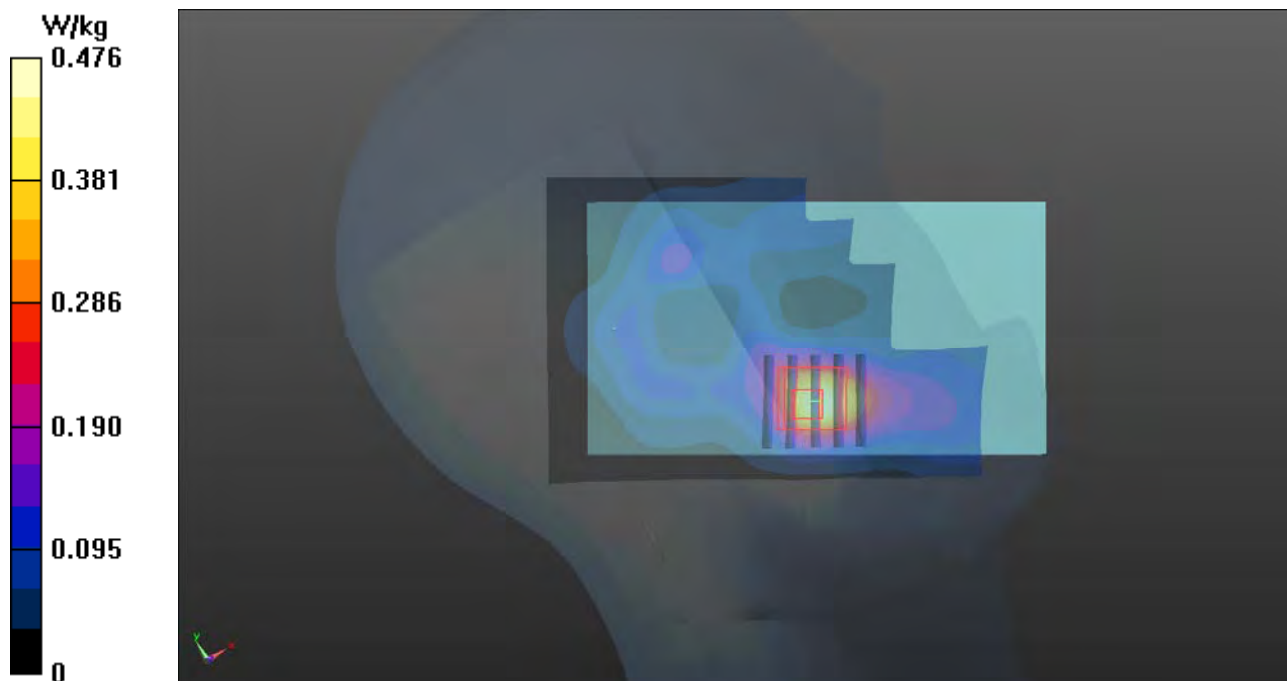
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.00 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.591 W/kg

SAR(1 g) = 0.326 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.501 W/kg



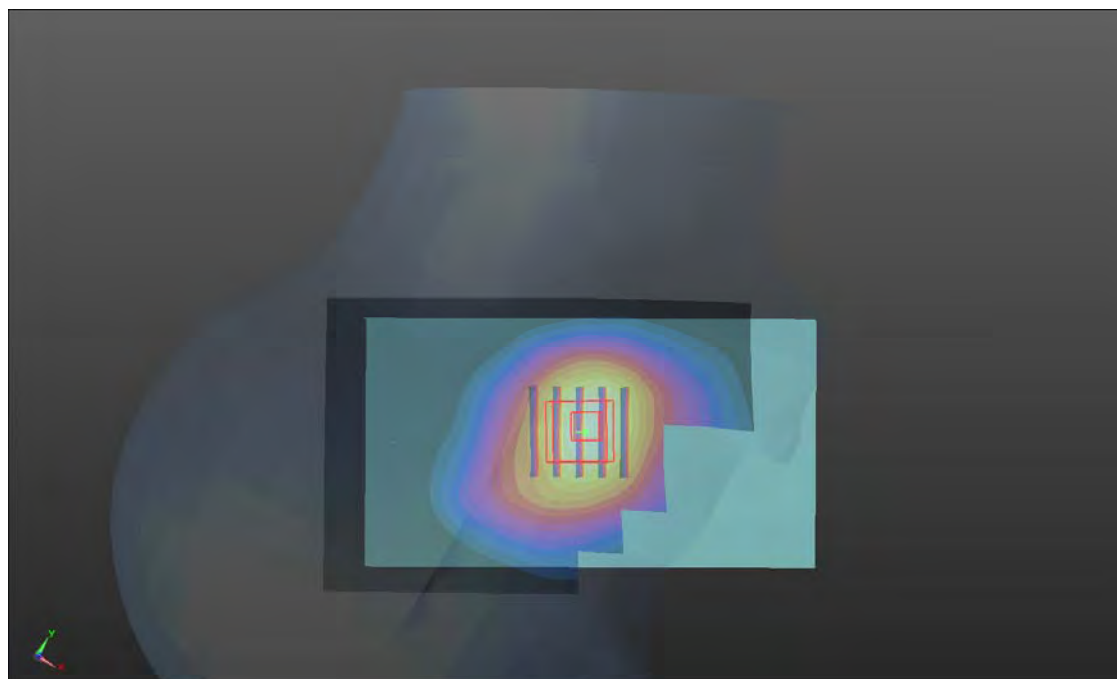
P13 LTE 12_QPSK10M_Right Cheek_Ch23060_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 704 MHz; Duty Cycle: 1:1

Medium: H06T09N1_1207 Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.849 \text{ S/m}$; $\epsilon_r = 43.818$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : $23.4 \text{ }^\circ\text{C}$; Liquid Temperature : $23.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(10.31, 10.31, 10.31); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.188 W/kg **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 15.41 V/m ; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.199 W/kg **SAR(1 g) = 0.163 W/kg ; SAR(10 g) = 0.130 W/kg** Maximum value of SAR (measured) = 0.188 W/kg 

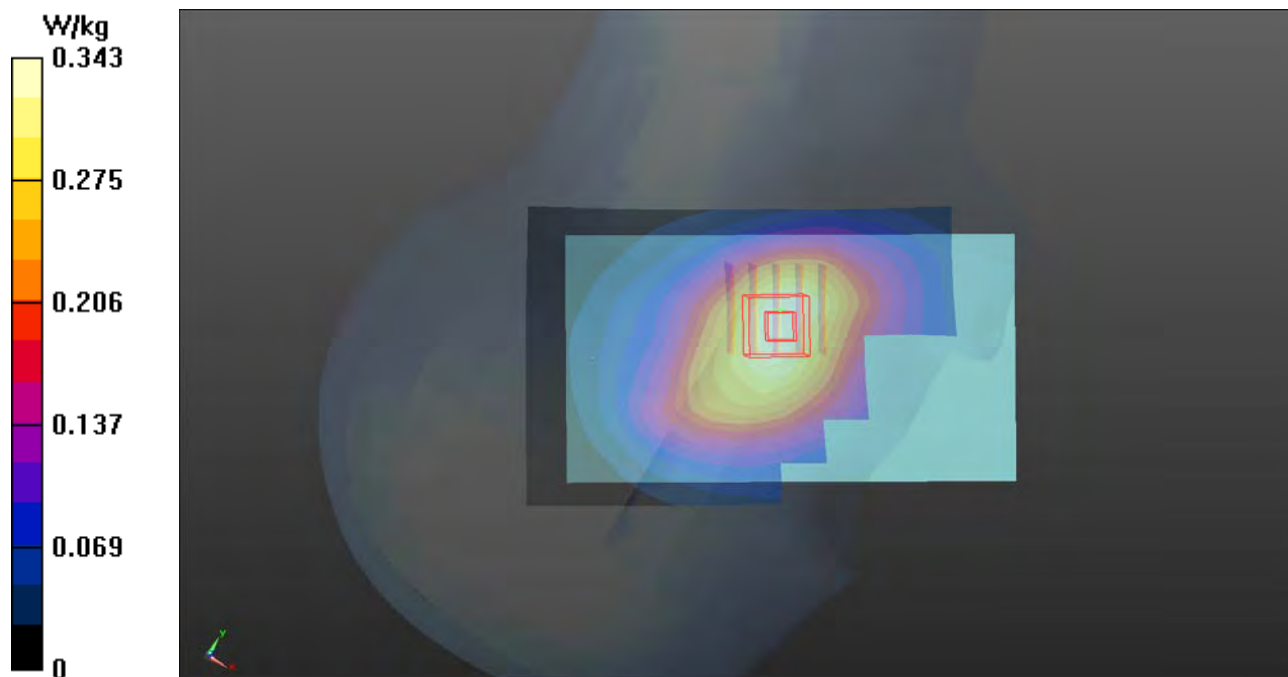
P14 LTE 13_QPSK10M_Right Cheek_Ch23230_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: H06T09N1_1207 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 42.718$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : $23.4 \text{ }^\circ\text{C}$; Liquid Temperature : $23.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(10.31, 10.31, 10.31); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.343 W/kg **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 19.98 V/m ; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.366 W/kg **SAR(1 g) = 0.291 W/kg ; SAR(10 g) = 0.227 W/kg** Maximum value of SAR (measured) = 0.339 W/kg 

P15 LTE 25_QPSK20M_Left Cheek_Ch26140_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: H16T20N1_1206 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.421$ S/m; $\epsilon_r = 39.734$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.21, 8.21, 8.21); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.608 W/kg

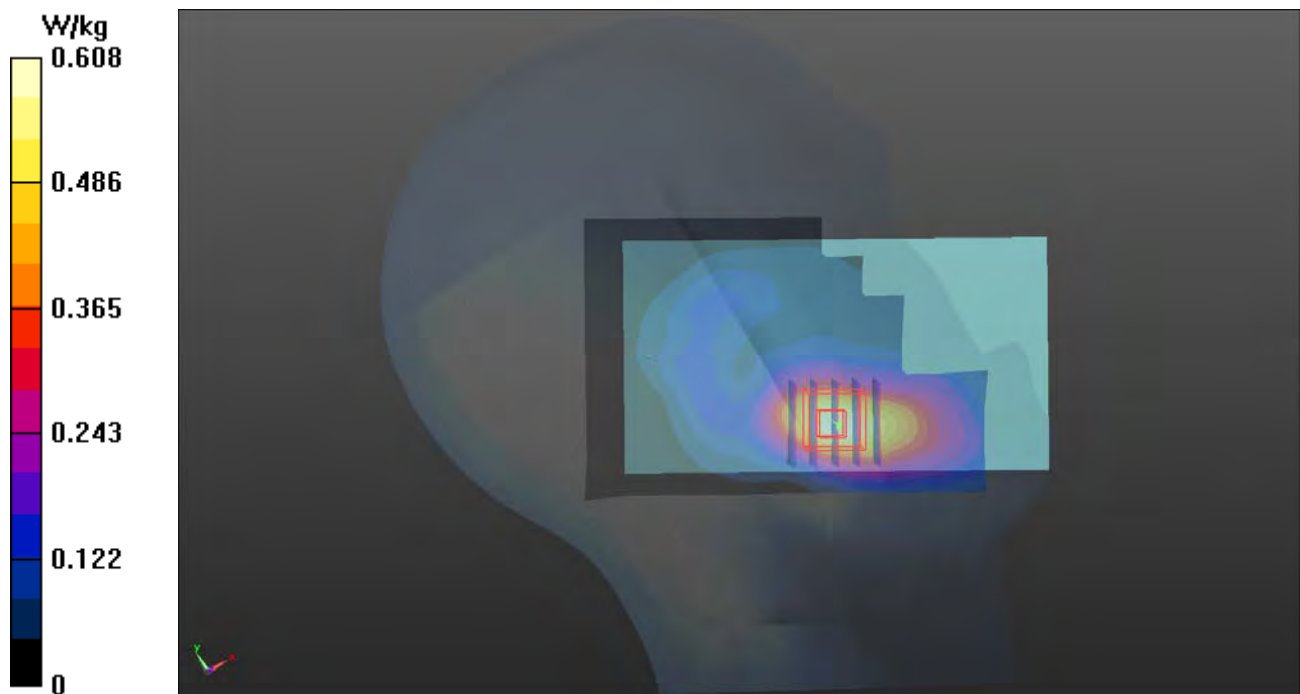
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.94 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.729 W/kg

SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.287 W/kg

Maximum value of SAR (measured) = 0.633 W/kg



P16 LTE 26_QPSK15M_Right Cheek_Ch26965_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium: H07T10N2_1206 Medium parameters used: $f = 841.5$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 42.314$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.375 W/kg

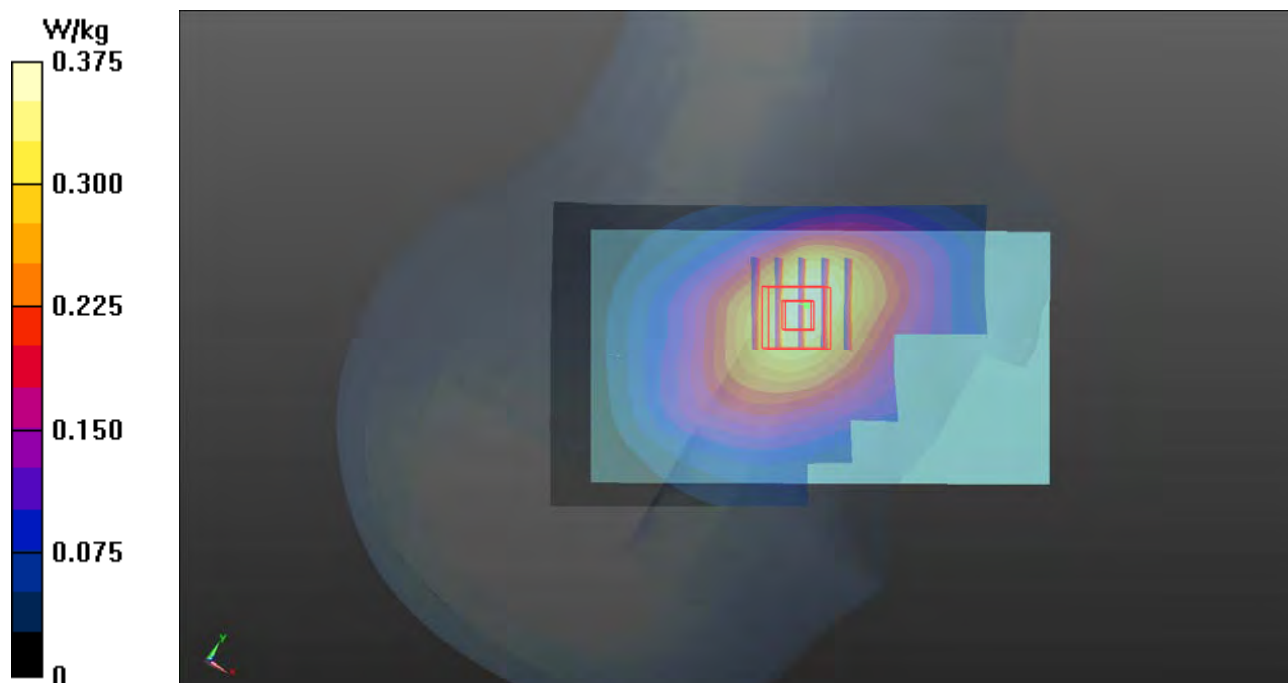
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.28 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.397 W/kg

SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.247 W/kg

Maximum value of SAR (measured) = 0.363 W/kg



P17 LTE 38_QPSK20M_Left Cheek_Ch38000_1RB_OS0**DUT: 171122C17**

Communication System: LTE TDD ; Frequency: 2595 MHz; Duty Cycle: 1:1.58

Medium: H19T27N1_1207 Medium parameters used: $f = 2595$ MHz; $\sigma = 2.007$ S/m; $\epsilon_r = 38.133$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.55, 7.55, 7.55); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.316 W/kg

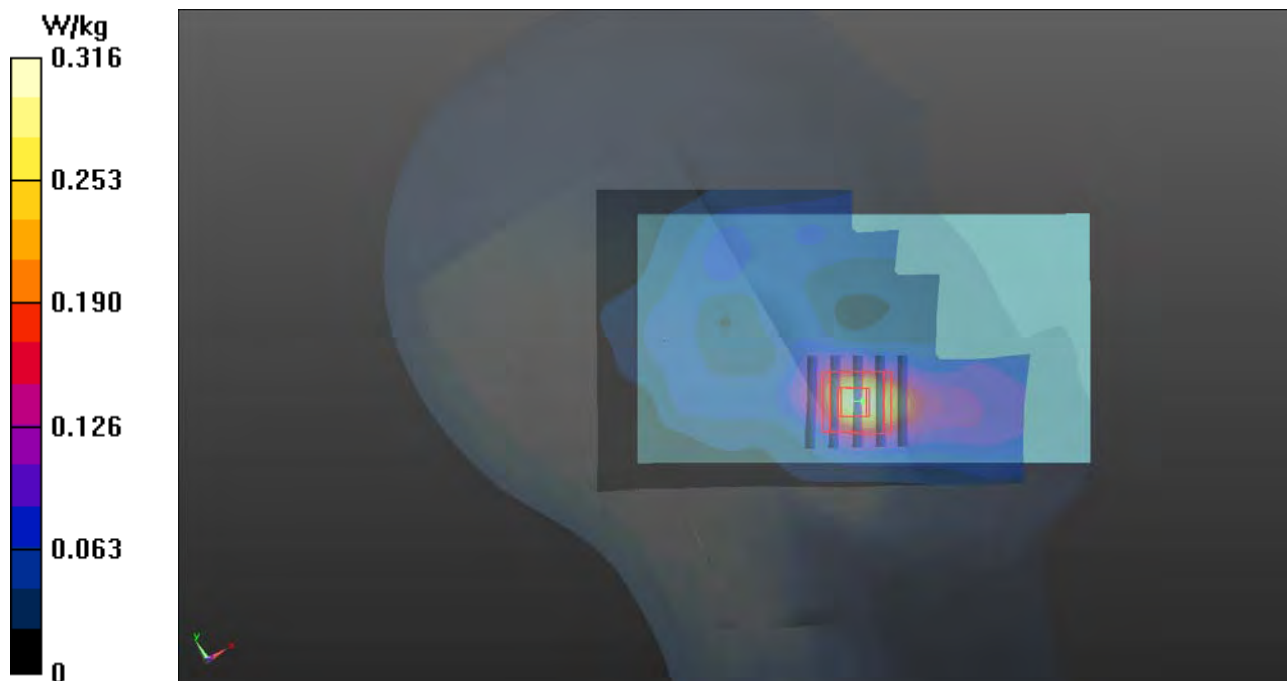
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.19 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.387 W/kg

SAR(1 g) = 0.205 W/kg; SAR(10 g) = 0.106 W/kg

Maximum value of SAR (measured) = 0.318 W/kg



P18 LTE 41_QPSK20M_Left Cheek_Ch39750_1RB_OS0**DUT: 171122C17**

Communication System: LTE TDD CF0; Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium: H19T27N1_1207 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.916$ S/m; $\epsilon_r = 38.504$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.55, 7.55, 7.55); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.361 W/kg

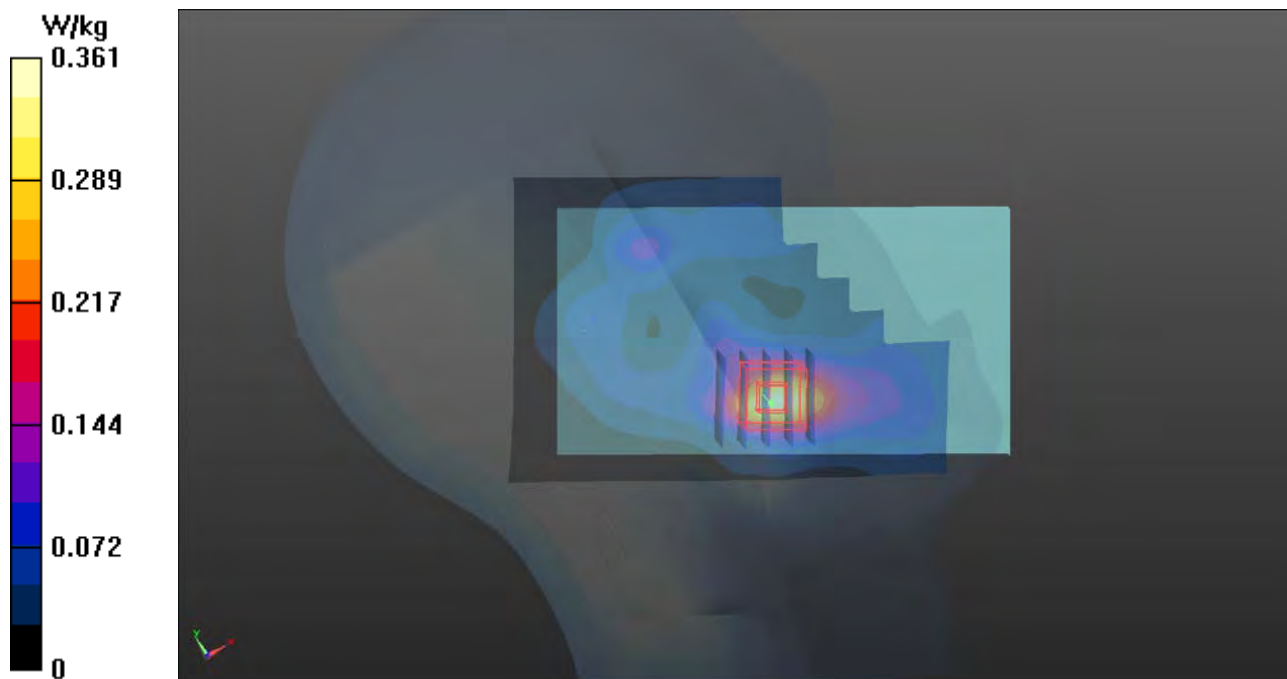
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.99 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.434 W/kg

SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.116 W/kg

Maximum value of SAR (measured) = 0.361 W/kg



P19 WLAN2.4G_802.11b_1M_Right Cheek_Ch1**DUT: 171122C17**

Communication System: WLAN_2.4G; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: H19T27N2_1220 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.825$ S/m; $\epsilon_r = 39.709$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.58, 7.58, 7.58); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.566 W/kg

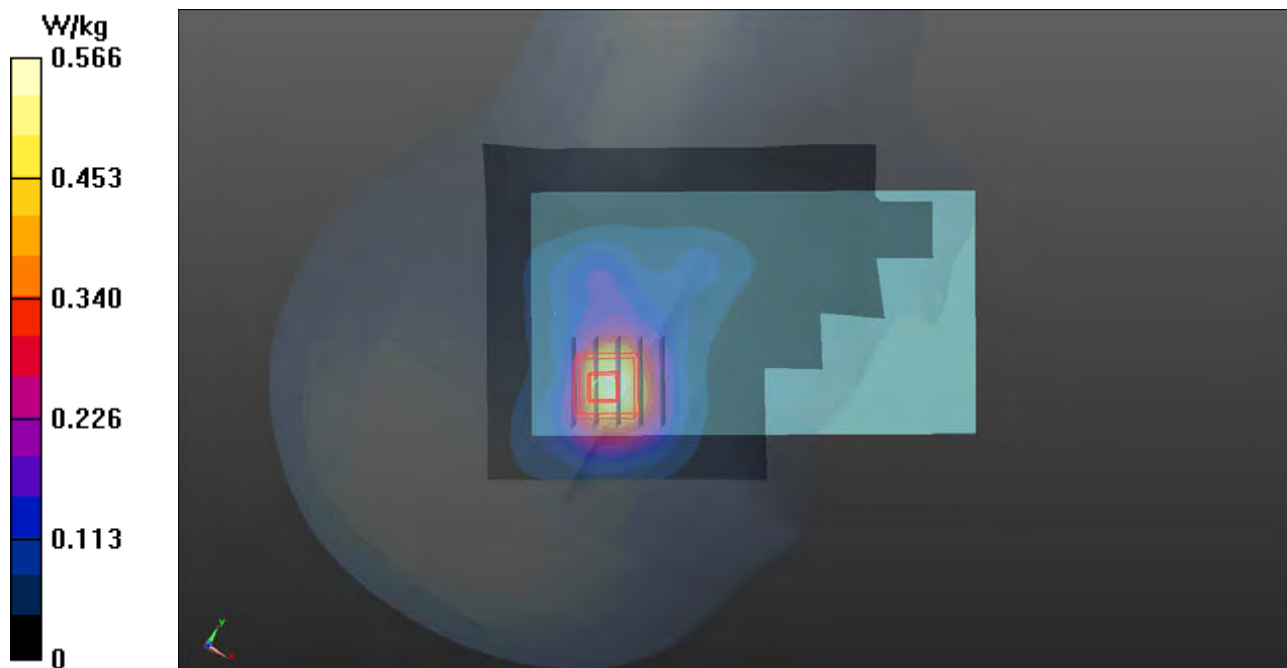
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.38 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.832 W/kg

SAR(1 g) = 0.467 W/kg; SAR(10 g) = 0.236 W/kg

Maximum value of SAR (measured) = 0.673 W/kg



P20 WLAN5G_802.11ac VHT80_MCS0_Right Cheek_Ch58**DUT: 171122C17**

Communication System: WLAN_5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium: H34T60N1_1220 Medium parameters used: $f = 5290$ MHz; $\sigma = 4.781$ S/m; $\epsilon_r = 36.928$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.4, 4.4, 4.4); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1653; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.666 W/kg

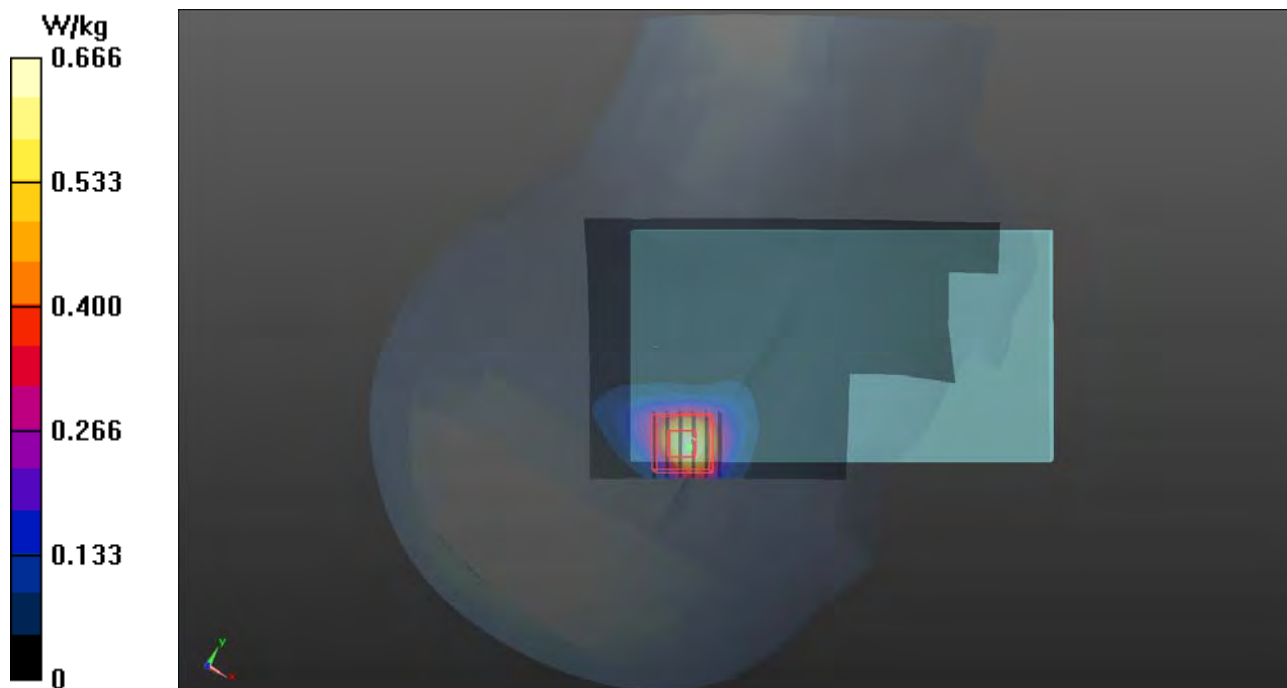
- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 12.62 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.347 W/kg; SAR(10 g) = 0.117 W/kg

Maximum value of SAR (measured) = 0.778 W/kg



P21 WLAN5G_802.11ac VHT80_MCS0_Right Cheek_Ch106**DUT: 171122C17**

Communication System: WLAN_5G; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium: H34T60N1_1220 Medium parameters used: $f = 5530$ MHz; $\sigma = 5.022$ S/m; $\epsilon_r = 36.583$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.95, 4.95, 4.95); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1653; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.602 W/kg

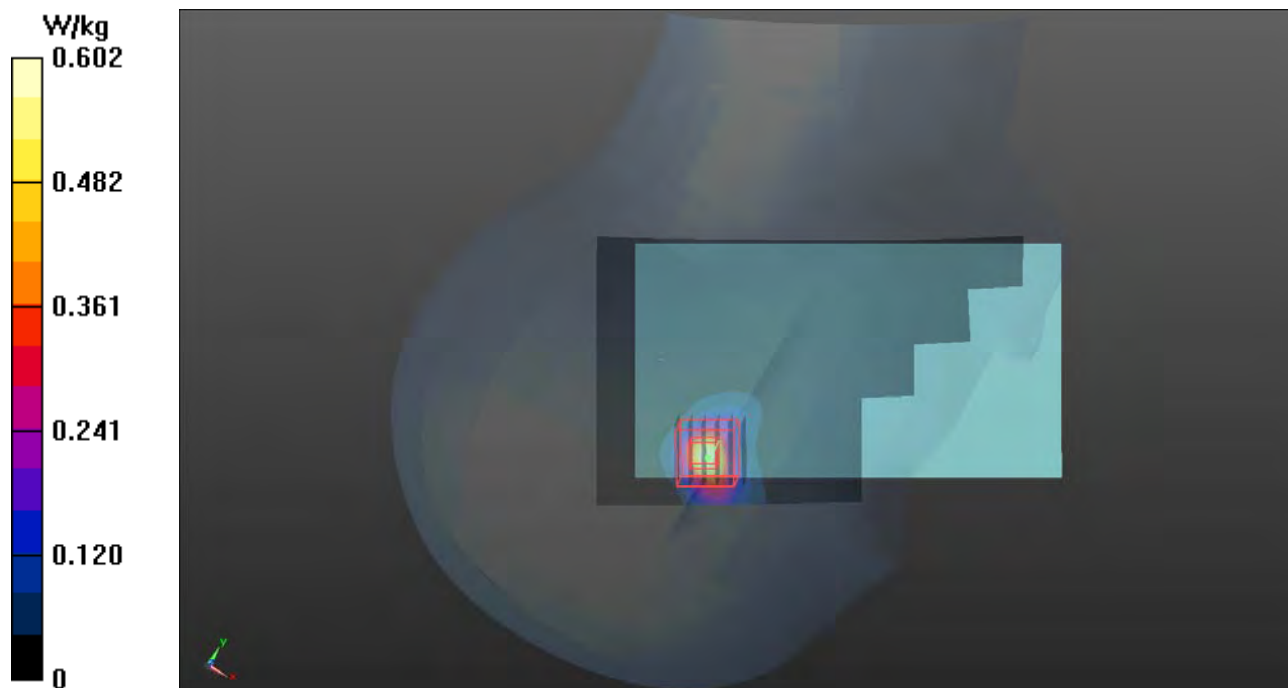
- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 13.03 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.959 W/kg

SAR(1 g) = 0.236 W/kg; SAR(10 g) = 0.079 W/kg

Maximum value of SAR (measured) = 0.560 W/kg



P22 WLAN5G_802.11ac VHT80_MCS0_Right Cheek_Ch155**DUT: 171122C17**

Communication System: WLAN_5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: H34T60N1_1220 Medium parameters used: $f = 5775$ MHz; $\sigma = 5.281$ S/m; $\epsilon_r = 36.253$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.3, 5.3, 5.3); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1653; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.526 W/kg

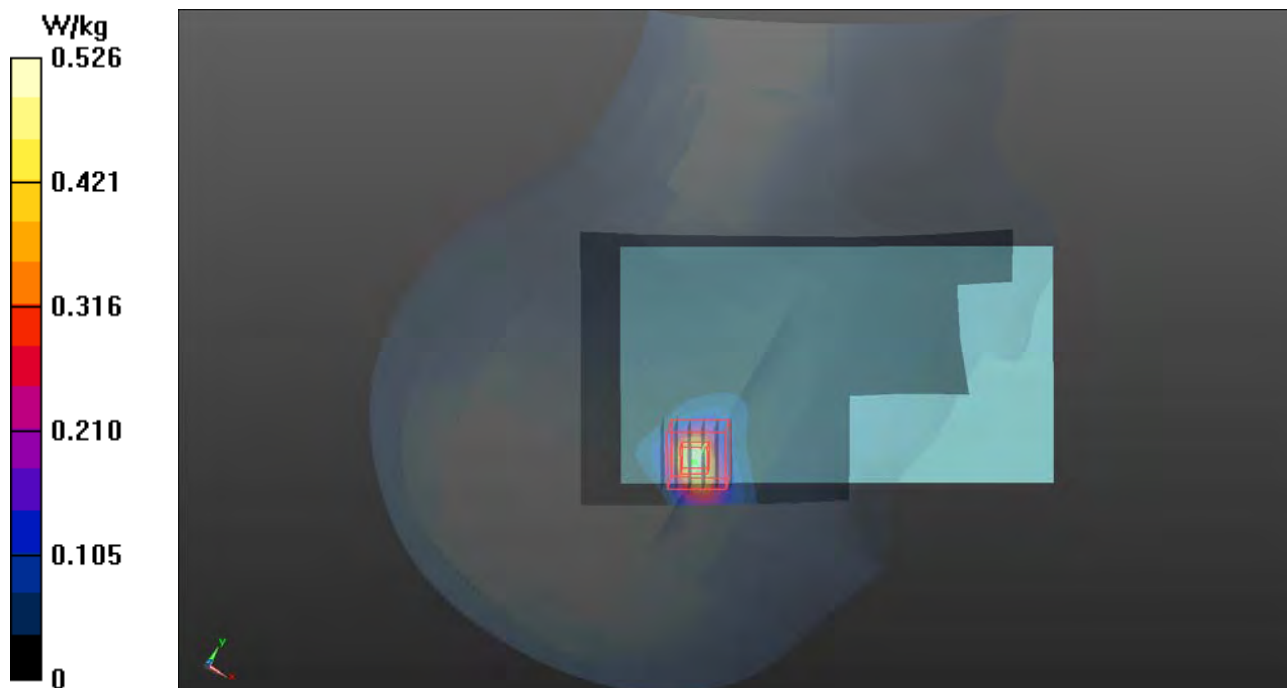
- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 11.79 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.217 W/kg; SAR(10 g) = 0.071 W/kg

Maximum value of SAR (measured) = 0.544 W/kg



P23 BT_DH1_Right Cheek_Ch0**DUT: 171122C17**

Communication System: BT; Frequency: 2402 MHz; Duty Cycle: 1:1

Medium: H19T27N2_1220 Medium parameters used: $f = 2402$ MHz; $\sigma = 1.814$ S/m; $\epsilon_r = 39.808$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.58, 7.58, 7.58); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0587 W/kg

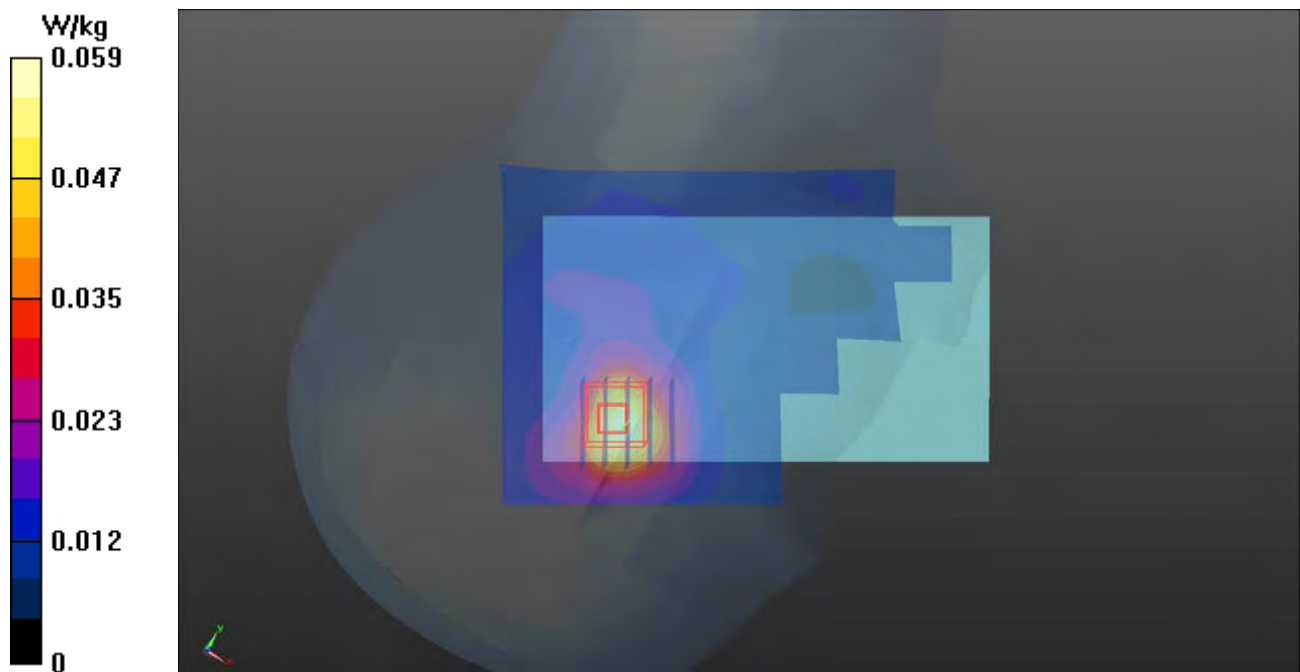
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.099 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0850 W/kg

SAR(1 g) = 0.048 W/kg; SAR(10 g) = 0.027 W/kg

Maximum value of SAR (measured) = 0.0663 W/kg



P24 GSM850_GPRS8_Rear Face_1cm_Ch189**DUT: 171122C17**

Communication System: GPRS8; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: B07T10N1_1206 Medium parameters used: $f = 836.4$ MHz; $\sigma = 1.013$ S/m; $\epsilon_r = 56.685$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.683 W/kg

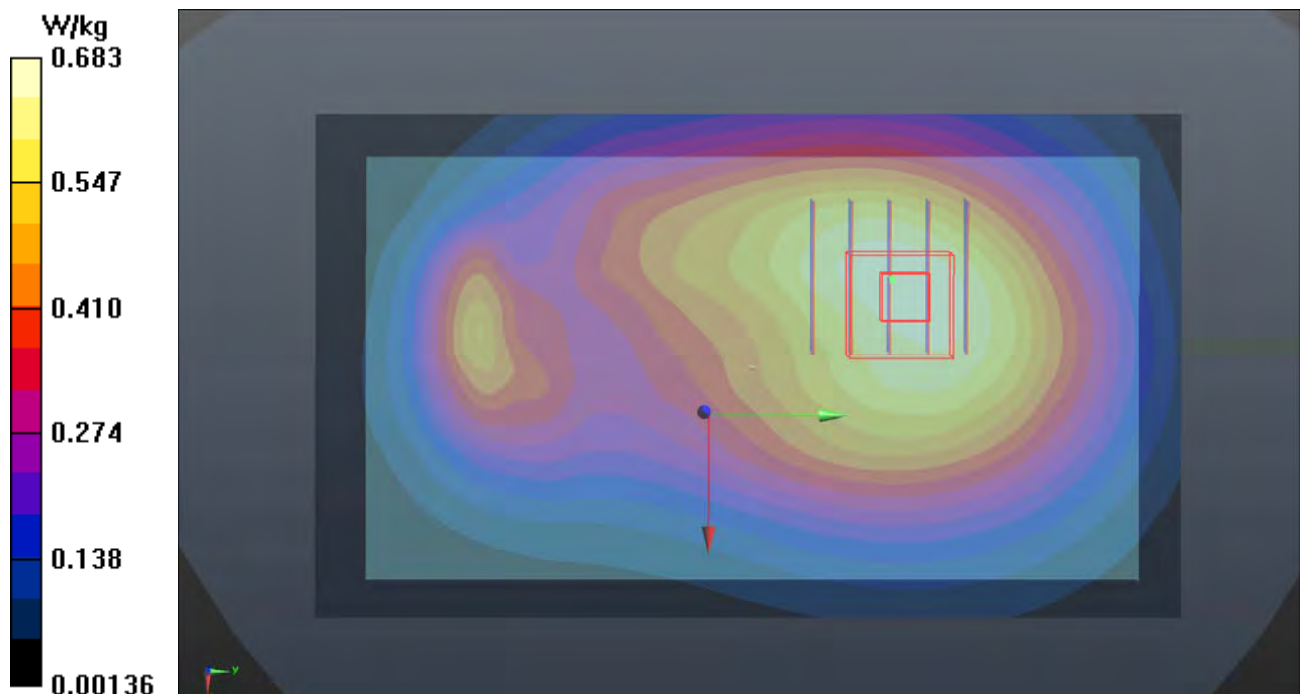
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.84 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.738 W/kg

SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.334 W/kg

Maximum value of SAR (measured) = 0.677 W/kg



P25 GSM1900_GPRS10_Rear Face_1cm_Ch810**DUT: 171122C17**

Communication System: GPRS10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: B16T20N2_1205 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 51.165$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(8, 8, 8); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2017/07/20
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.785 W/kg

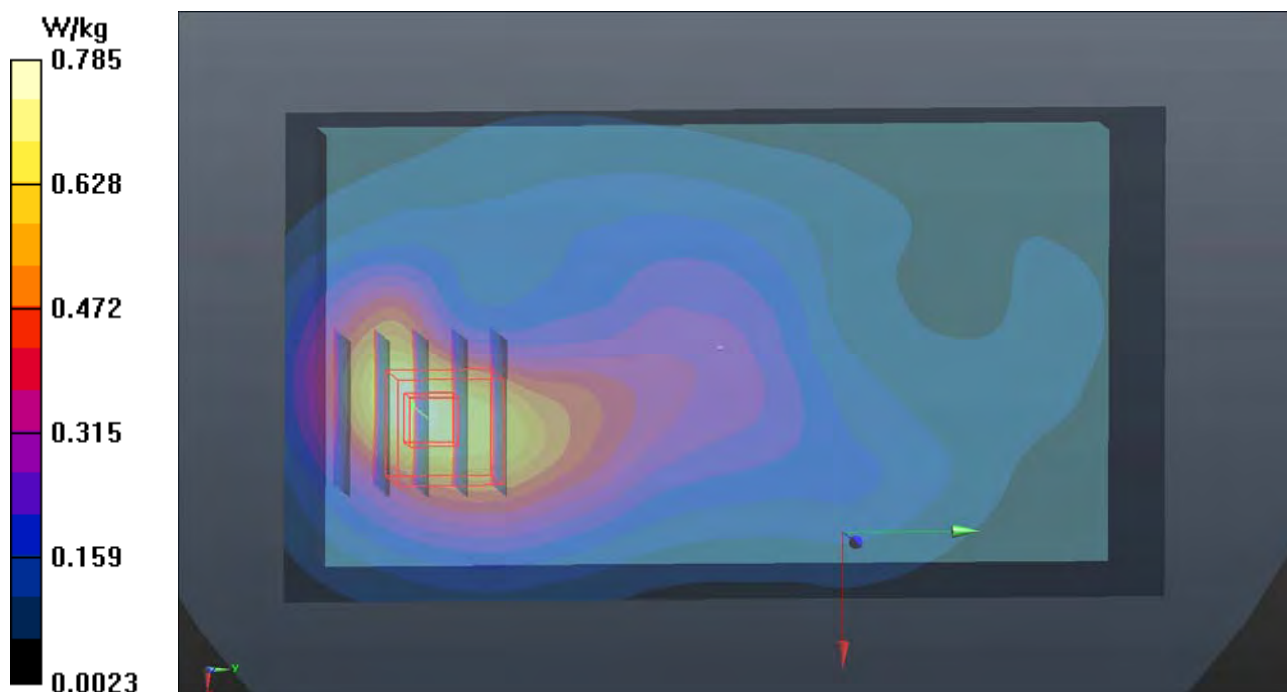
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.23 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.839 W/kg

SAR(1 g) = 0.526 W/kg; SAR(10 g) = 0.325 W/kg

Maximum value of SAR (measured) = 0.729 W/kg



P26 WCDMA II_RMC12.2K_Rear Face_1cm_Ch9400**DUT: 171122C17**

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: B16T20N2_1218 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.562$ S/m; $\epsilon_r = 51.174$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.01, 8.01, 8.01); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.31 W/kg

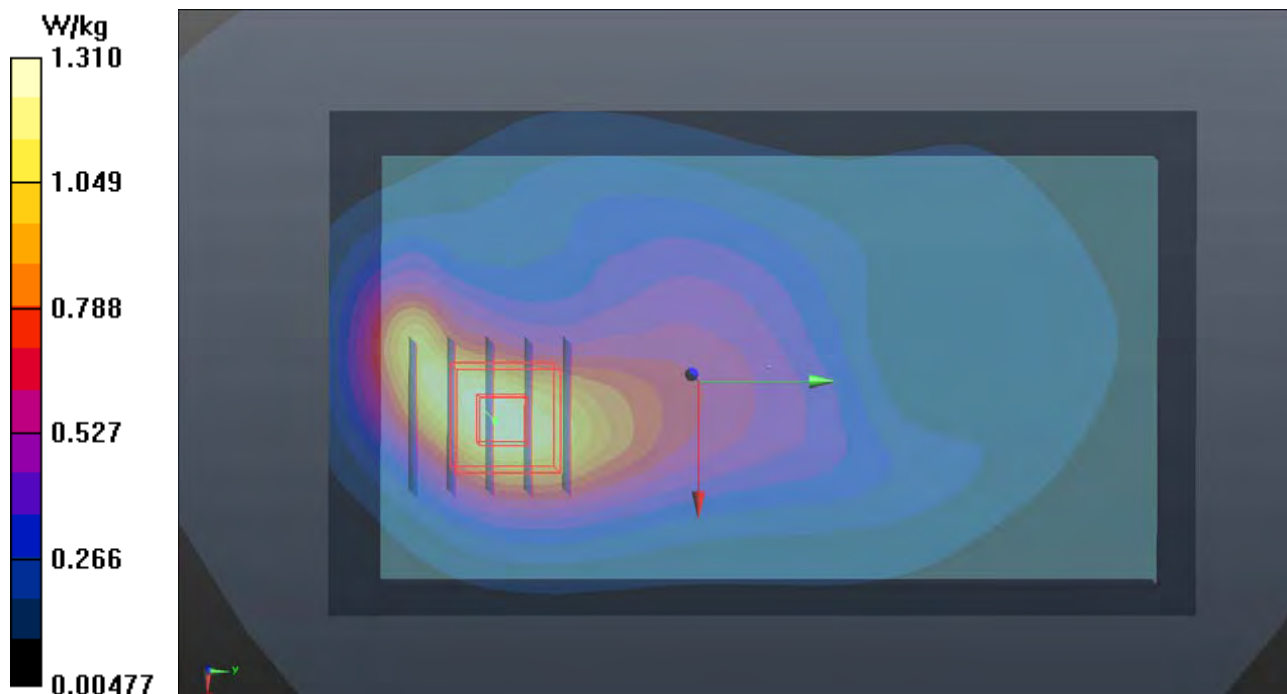
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.47 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.903 W/kg; SAR(10 g) = 0.546 W/kg

Maximum value of SAR (measured) = 1.26 W/kg



P27 WCDMA IV_RMC12.2K_Rear Face_1cm_Ch1513**DUT: 171122C17**

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: B16T20N2_1224 Medium parameters used: $f = 1753$ MHz; $\sigma = 1.466$ S/m; $\epsilon_r = 51.665$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.51, 8.51, 8.51); Calibrated: 2017/03/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2017/05/22
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.58 W/kg

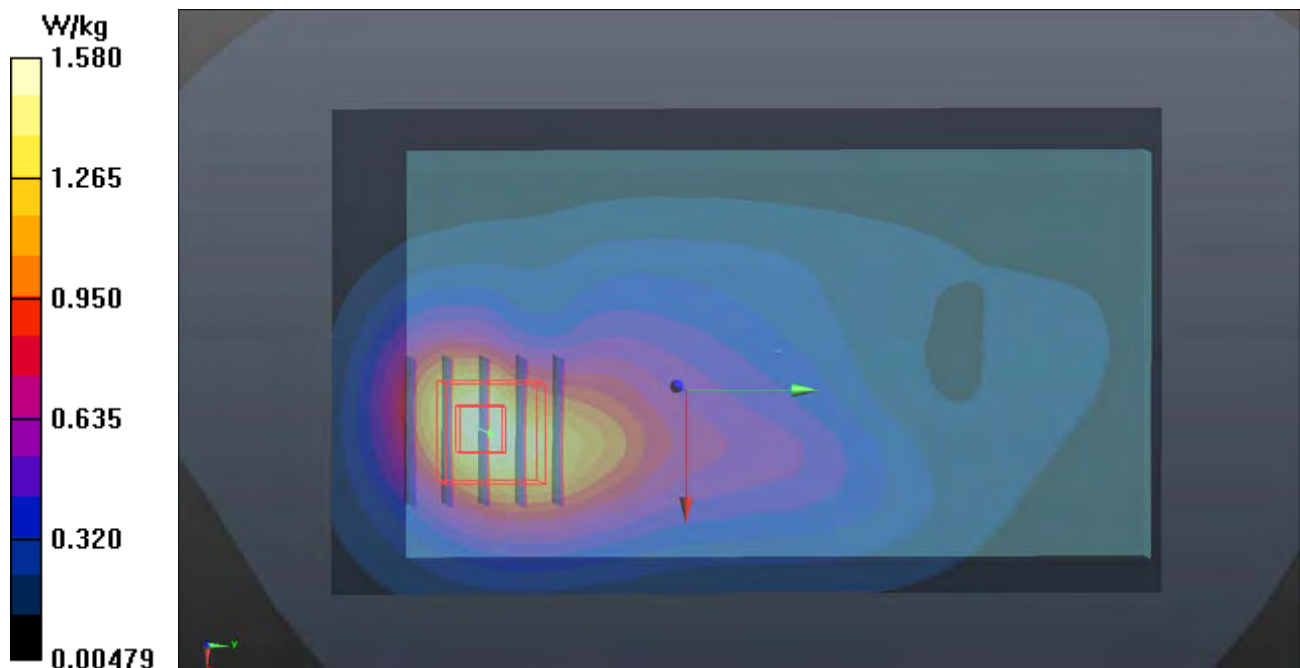
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.92 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.659 W/kg

Maximum value of SAR (measured) = 1.47 W/kg



P28 WCDMA V_RMC12.2K_Rear Face_1cm_Ch4233**DUT: 171122C17**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B07T10N1_1206 Medium parameters used: $f = 847$ MHz; $\sigma = 1.022$ S/m; $\epsilon_r = 56.606$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.746 W/kg

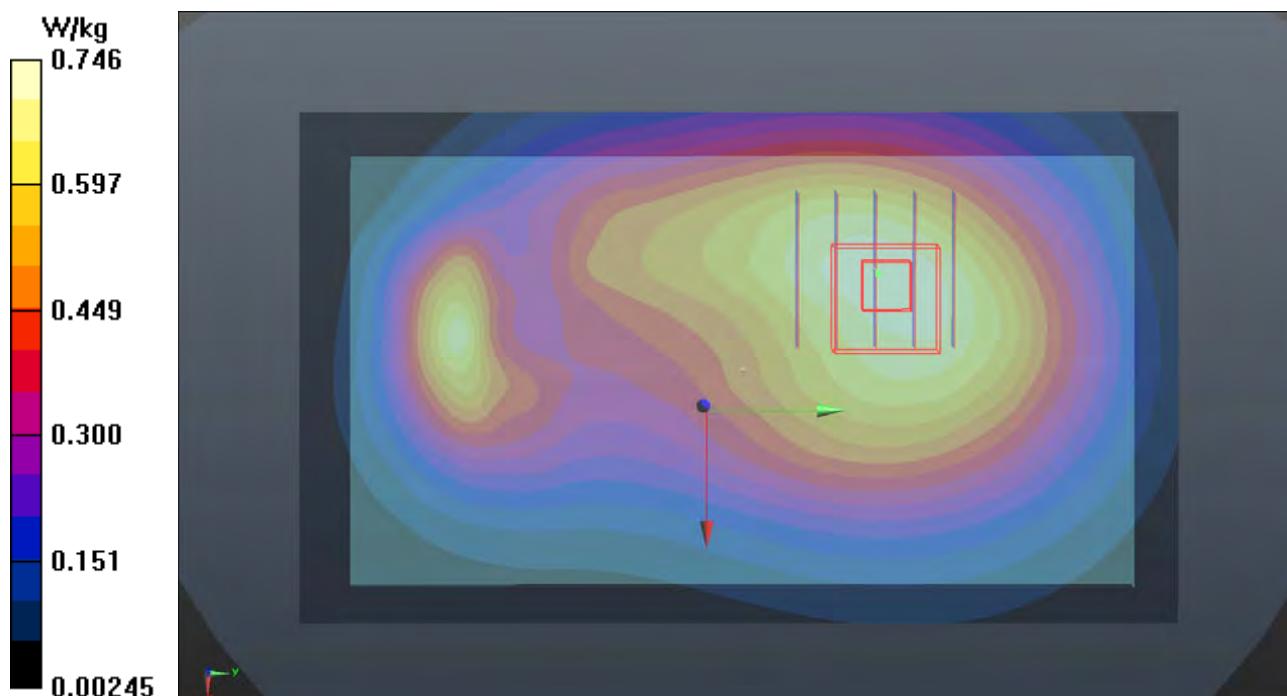
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.03 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.811 W/kg

SAR(1 g) = 0.606 W/kg; SAR(10 g) = 0.459 W/kg

Maximum value of SAR (measured) = 0.740 W/kg



P29 CDMA2000 BC0_RTAP 153.6_Rear Face_1cm_Ch777**DUT: 171122C17**

Communication System: CDMA2000; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: B07T10N1_1206 Medium parameters used: $f = 848.31$ MHz; $\sigma = 1.023$ S/m; $\epsilon_r = 56.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.745 W/kg

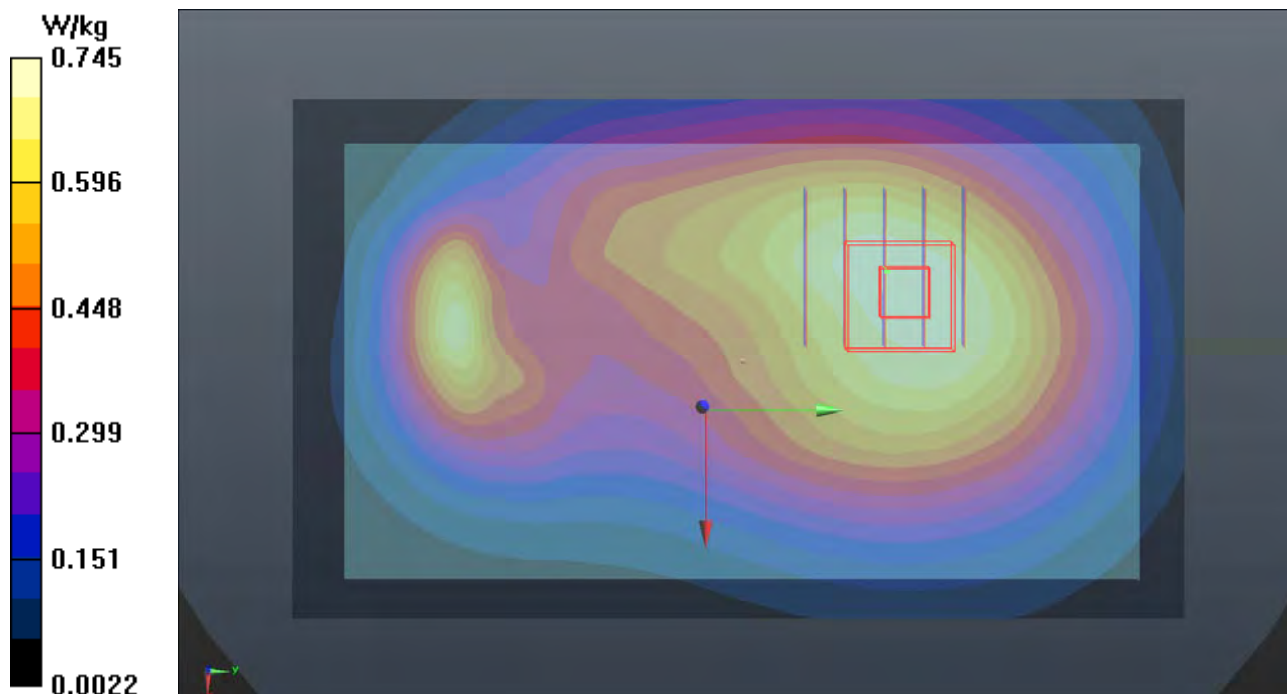
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.72 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.813 W/kg

SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.462 W/kg

Maximum value of SAR (measured) = 0.742 W/kg



P30 CDMA2000 BC1_RTAP153.6_Rear Face_1cm_Ch1175**DUT: 171122C17**

Communication System: CDMA2000 ; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: B16T20N2_1221 Medium parameters used: $f = 1909$ MHz; $\sigma = 1.573$ S/m; $\epsilon_r = 50.862$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.01, 8.01, 8.01); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.53 W/kg

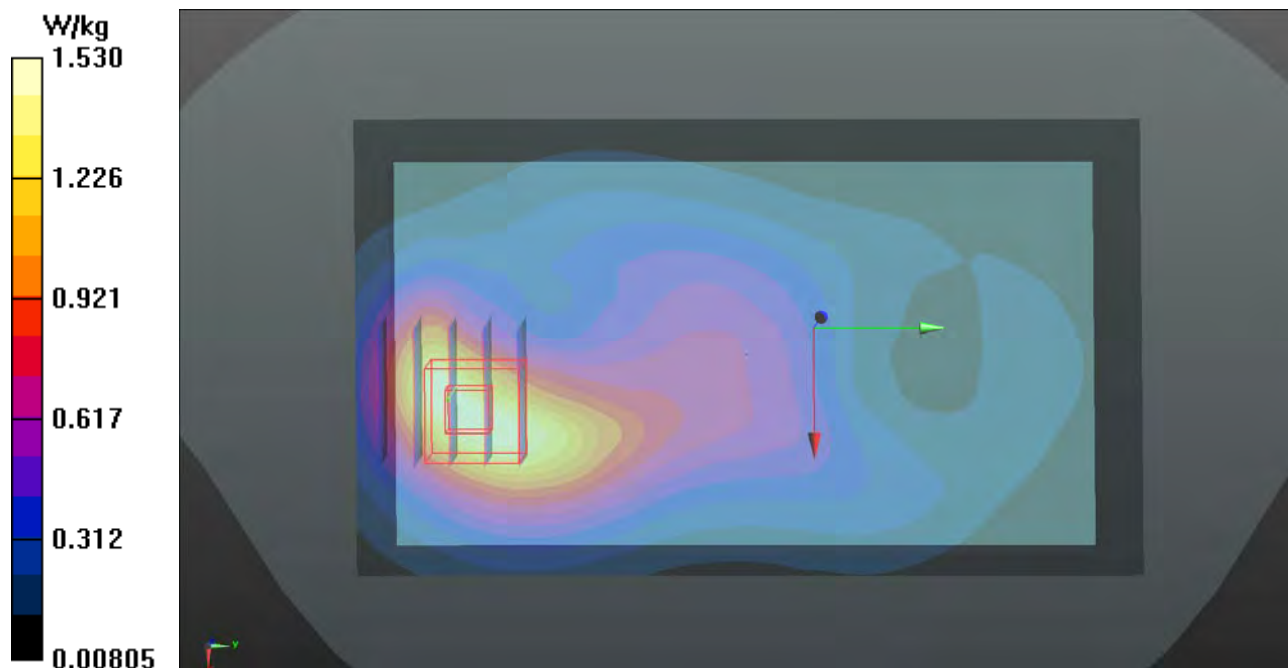
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.05 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.641 W/kg

Maximum value of SAR (measured) = 1.50 W/kg



P31 CDMA2000 BC10_RTAP 153.6_Rear Face_1cm_Ch580**DUT: 171122C17**

Communication System: CDMA2000; Frequency: 820.5 MHz; Duty Cycle: 1:1

Medium: B07T10N1_1206 Medium parameters used: $f = 820.5$ MHz; $\sigma = 0.999$ S/m; $\epsilon_r = 56.799$; ρ $= 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.709 W/kg

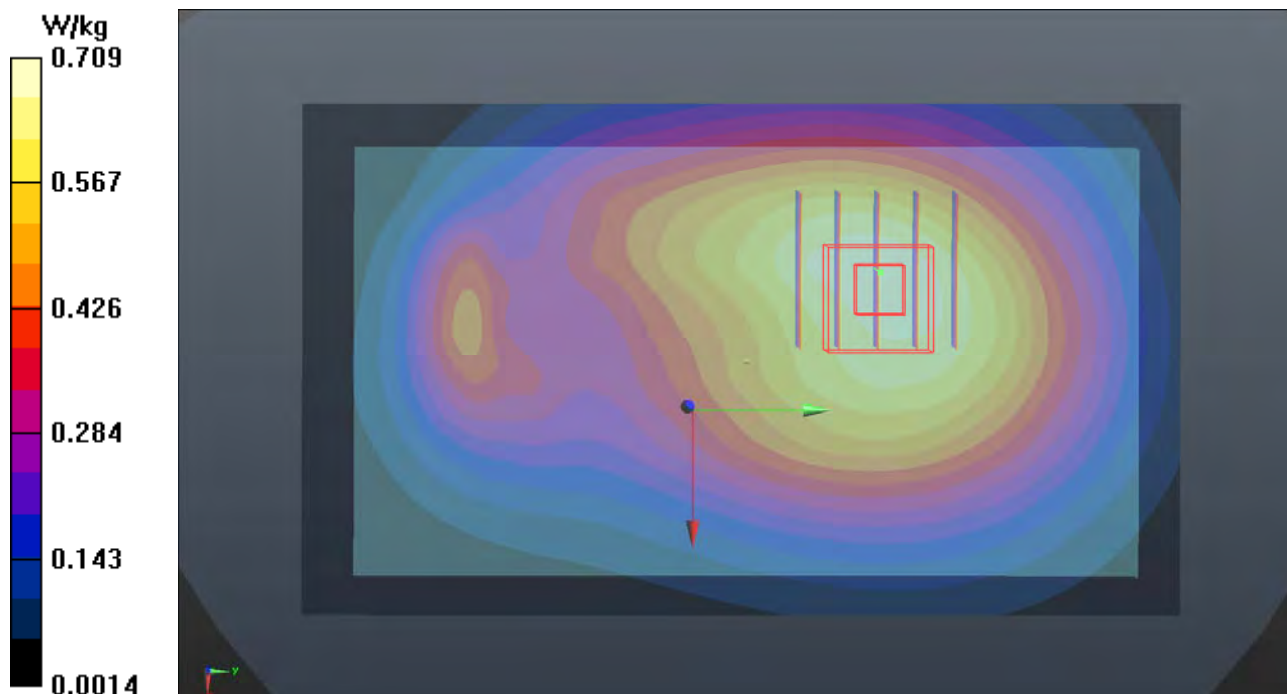
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.39 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.767 W/kg

SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.443 W/kg

Maximum value of SAR (measured) = 0.702 W/kg



P32 LTE 2_QPSK20M_Rear Face_1cm_Ch18700_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: B16T20N2_1205 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.522$ S/m; $\epsilon_r = 51.02$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(8, 8, 8); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2017/07/20
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.47 W/kg

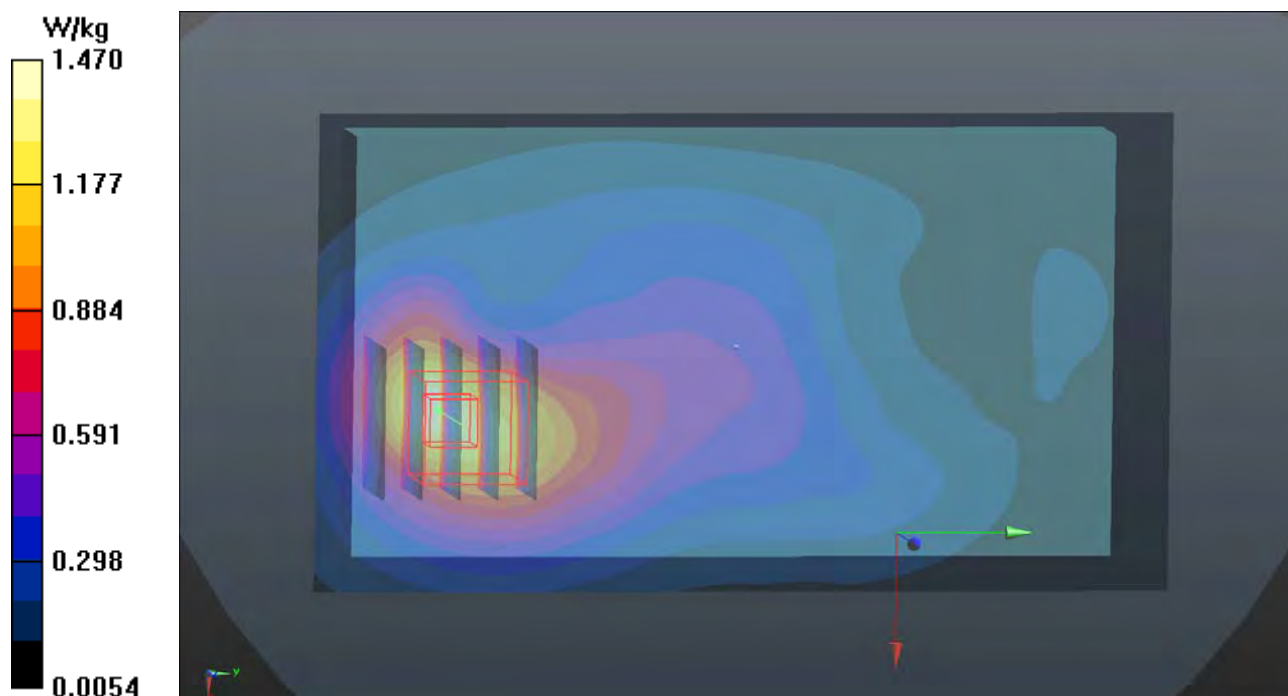
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.37 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.987 W/kg; SAR(10 g) = 0.615 W/kg

Maximum value of SAR (measured) = 1.35 W/kg



P33 LTE 4_QPSK20M_Rear Face_1cm_Ch20050_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: B16T20N2_1205 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 51.173$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(8.27, 8.27, 8.27); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2017/07/20
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

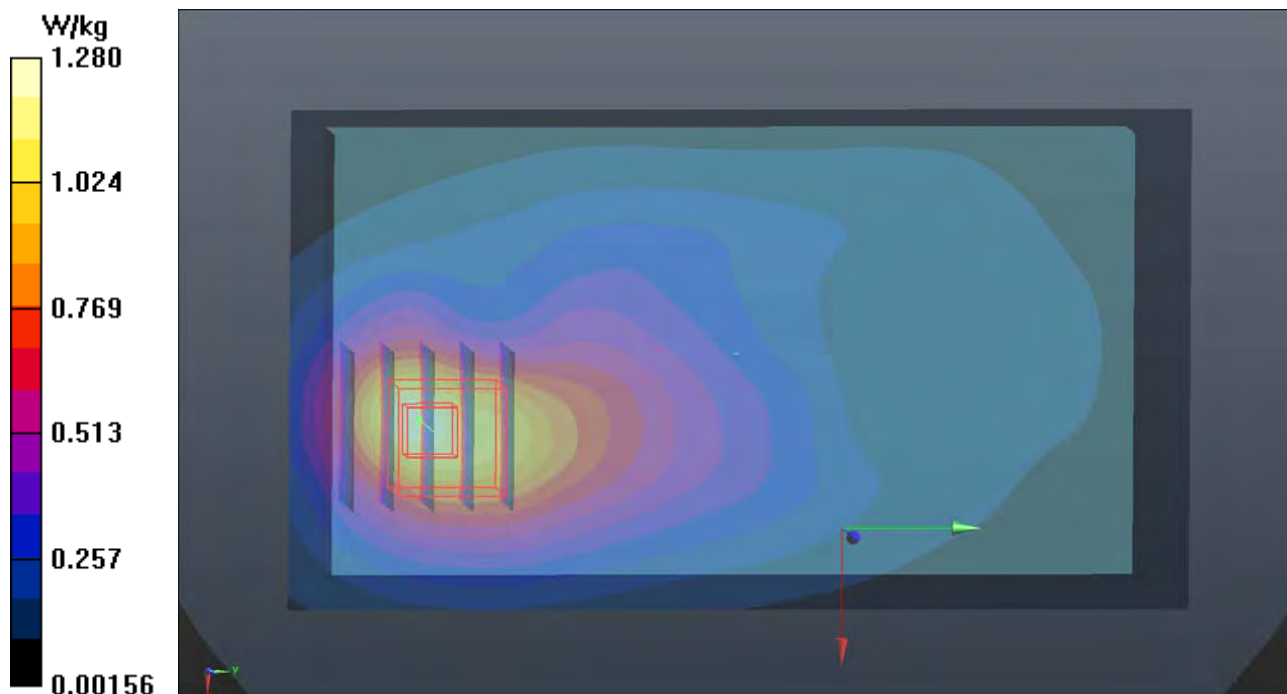
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.30 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.886 W/kg; SAR(10 g) = 0.561 W/kg

Maximum value of SAR (measured) = 1.20 W/kg



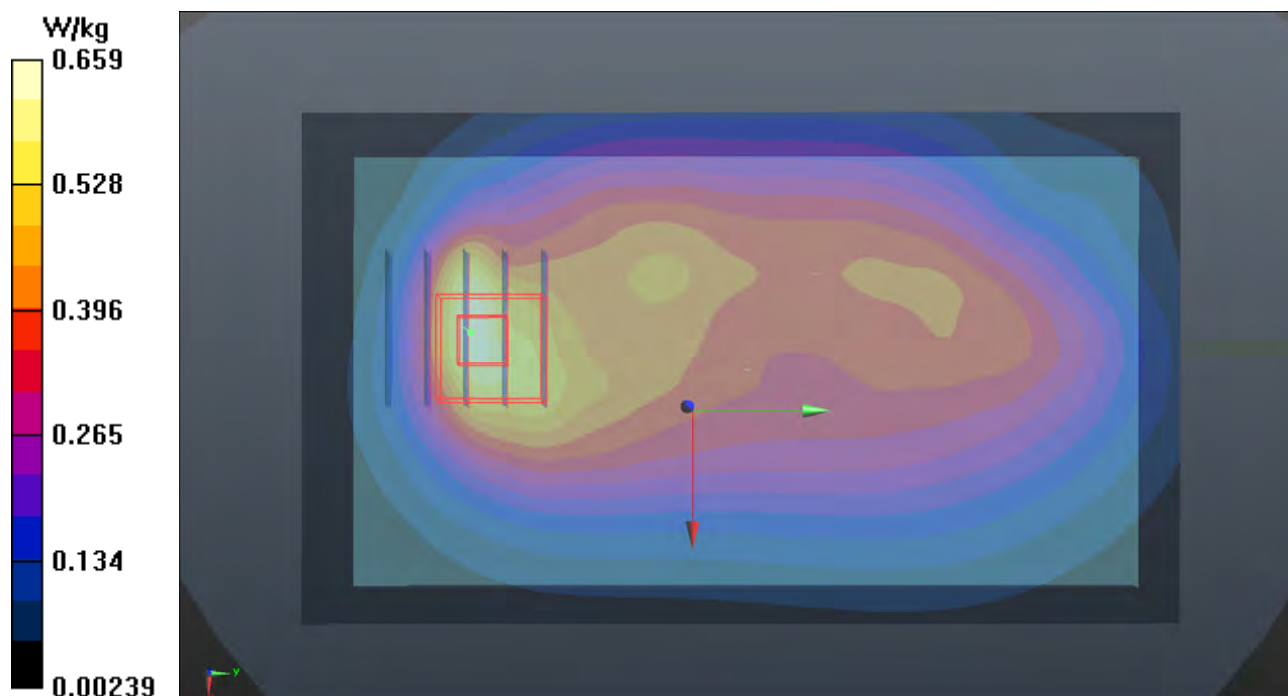
P34 LTE 5_QPSK10M_Rear Face_1cm_Ch20600_1RB_SO0**DUT: 171122C17**

Communication System: LTE; Frequency: 844 MHz; Duty Cycle: 1:1

Medium: B07T10N1_1206 Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 1.019 \text{ S/m}$; $\epsilon_r = 56.634$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : $23.6 \text{ }^\circ\text{C}$; Liquid Temperature : $23.4 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.659 W/kg **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 23.77 V/m ; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.791 W/kg **SAR(1 g) = 0.469 W/kg ; SAR(10 g) = 0.291 W/kg** Maximum value of SAR (measured) = 0.657 W/kg 

P35 LTE 7_QPSK20M_Rear Face_1cm_Ch21350_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: B19T27N1_1207 Medium parameters used: $f = 2560$ MHz; $\sigma = 2.147$ S/m; $\epsilon_r = 50.556$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.37, 7.37, 7.37); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.85 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.745 W/kg; SAR(10 g) = 0.418 W/kg

Maximum value of SAR (measured) = 1.00 W/kg



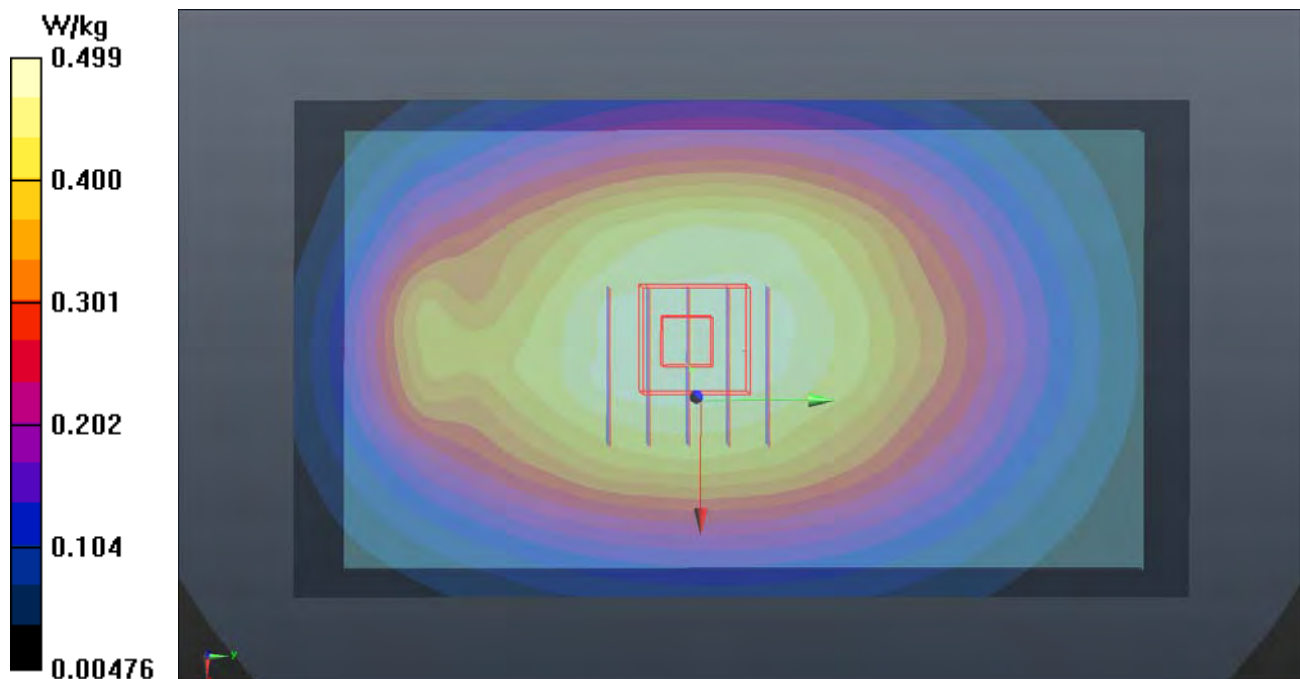
P36 LTE 12_QPSK10M_Rear Face_1cm_Ch23060_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 704 MHz; Duty Cycle: 1:1

Medium: B06T09N1_1208 Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.917 \text{ S/m}$; $\epsilon_r = 54.955$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : $23.6 \text{ }^\circ\text{C}$; Liquid Temperature : $23.3 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.89, 9.89, 9.89); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.499 W/kg **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 23.90 V/m ; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.529 W/kg **SAR(1 g) = 0.410 W/kg ; SAR(10 g) = 0.324 W/kg** Maximum value of SAR (measured) = 0.484 W/kg 

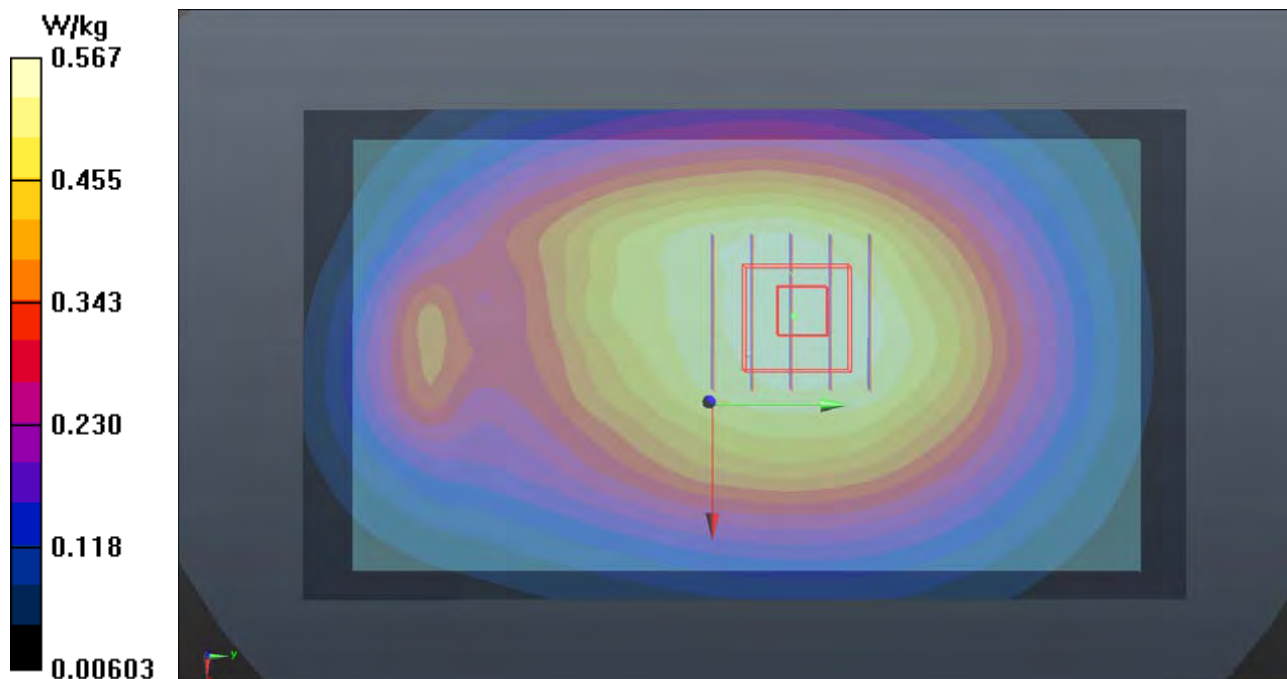
P37 LTE 13_QPSK10M_Rear Face_1cm_Ch23230_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: B06T09N1_1208 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.99 \text{ S/m}$; $\epsilon_r = 54.147$; $\rho =$ 1000 kg/m^3 Ambient Temperature : $23.5 \text{ }^\circ\text{C}$; Liquid Temperature : $23.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.89, 9.89, 9.89); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.567 W/kg **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 24.98 V/m ; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.625 W/kg **SAR(1 g) = 0.468 W/kg ; SAR(10 g) = 0.361 W/kg** Maximum value of SAR (measured) = 0.566 W/kg 

P38 LTE 25_QPSK20M_Rear Face_1cm_Ch26140_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: B16T20N2_1205 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.522$ S/m; $\epsilon_r = 51.02$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(8, 8, 8); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2017/07/20
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.18 W/kg

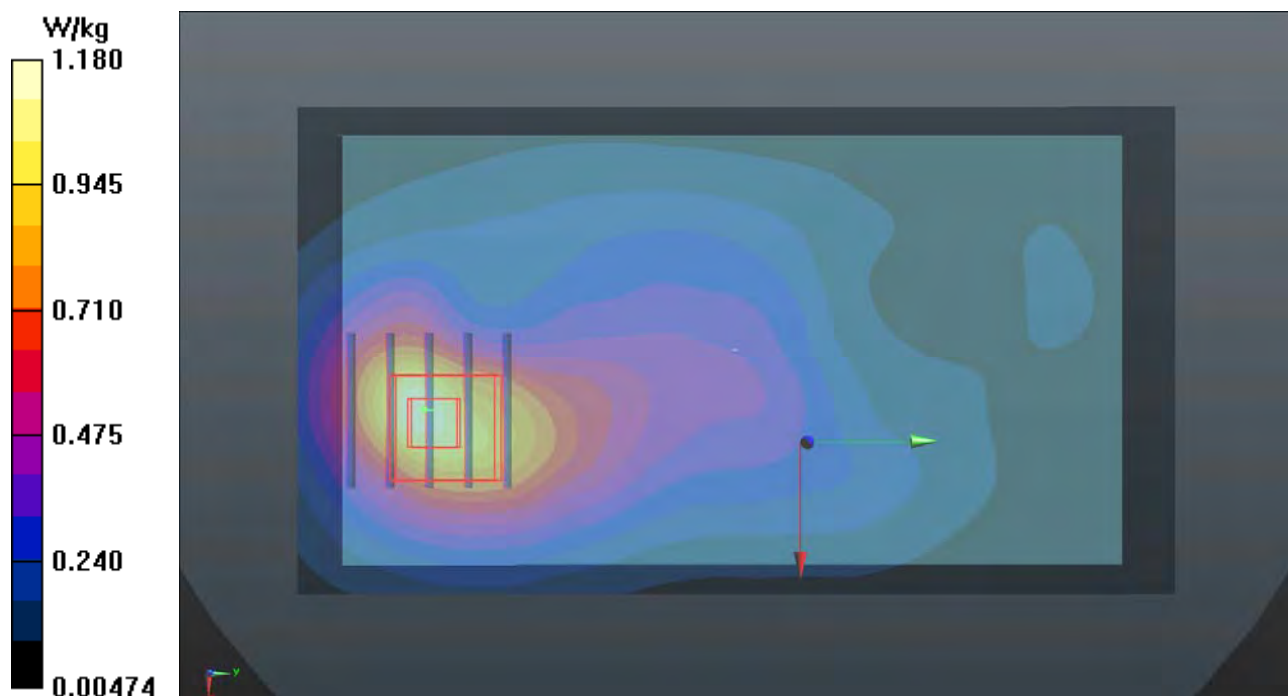
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.36 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.780 W/kg; SAR(10 g) = 0.483 W/kg

Maximum value of SAR (measured) = 1.07 W/kg



P39 LTE 26_QPSK15M_Rear Face_1cm_Ch26965_1RB_SO0**DUT: 171122C17**

Communication System: LTE; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium: B07T10N1_1206 Medium parameters used: $f = 841.5$ MHz; $\sigma = 1.017$ S/m; $\epsilon_r = 56.651$; ρ $= 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.612 W/kg

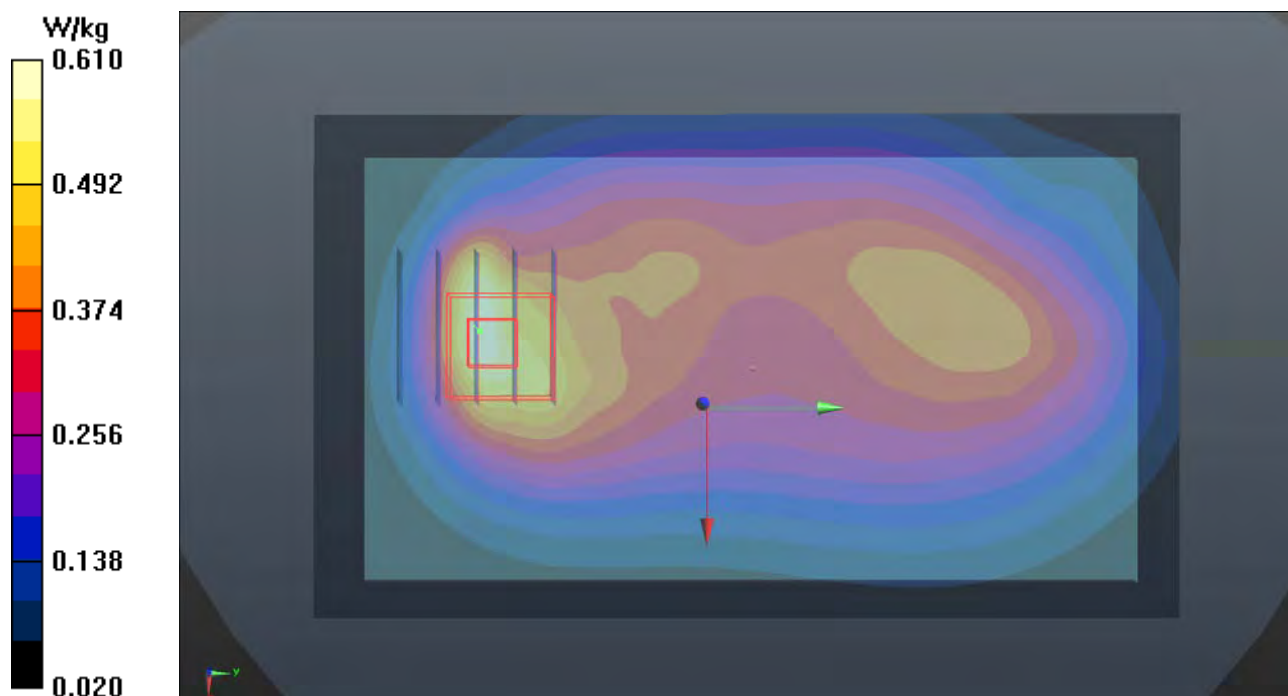
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.07 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.734 W/kg

SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 0.610 W/kg



P40 LTE 38_QPSK20M_Rear Face_1cm_Ch38000_1RB_OS0**DUT: 171122C17**

Communication System: LTE TDD CF0; Frequency: 2595 MHz; Duty Cycle: 1:1.58

Medium: B19T27N1_1207 Medium parameters used: $f = 2595$ MHz; $\sigma = 2.188$ S/m; $\epsilon_r = 50.452$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.37, 7.37, 7.37); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.779 W/kg

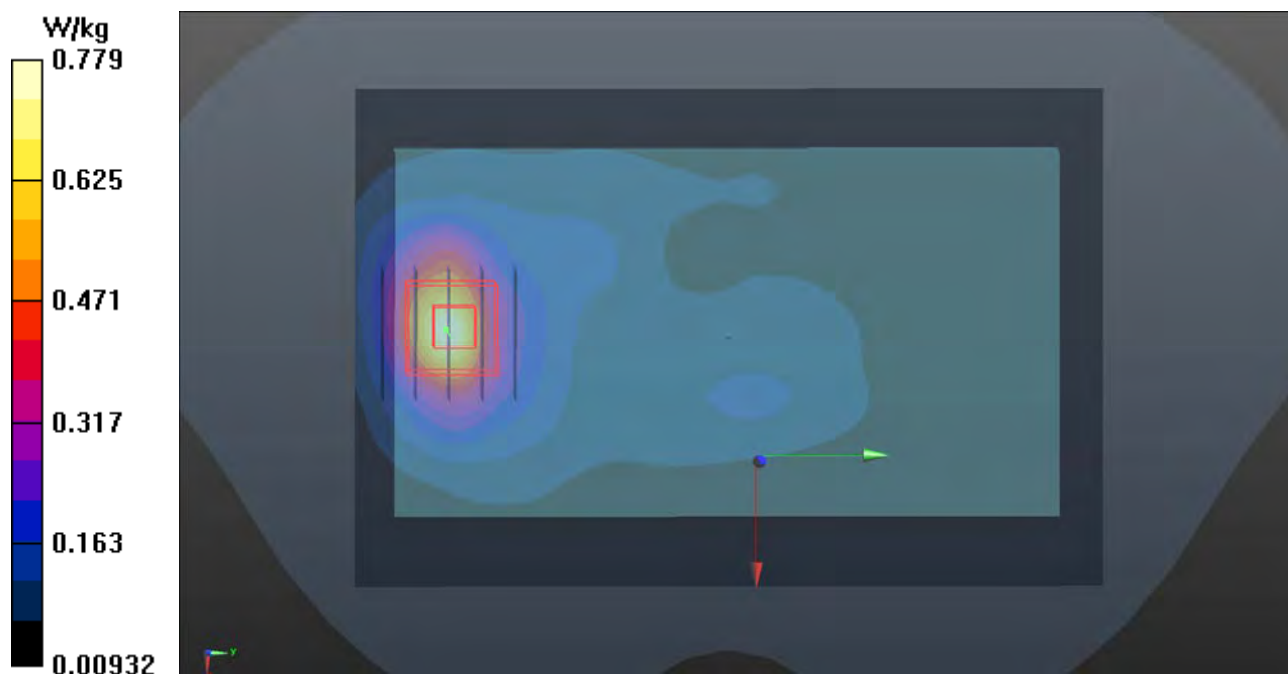
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.00 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.797 W/kg



P41 LTE 41_QPSK20M_Rear Face_1cm_Ch39750_1RB_OS0**DUT: 171122C17**

Communication System: LTE TDD CF0; Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium: B19T27N1_1207 Medium parameters used: $f = 2506$ MHz; $\sigma = 2.084$ S/m; $\epsilon_r = 50.713$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.37, 7.37, 7.37); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.545 W/kg

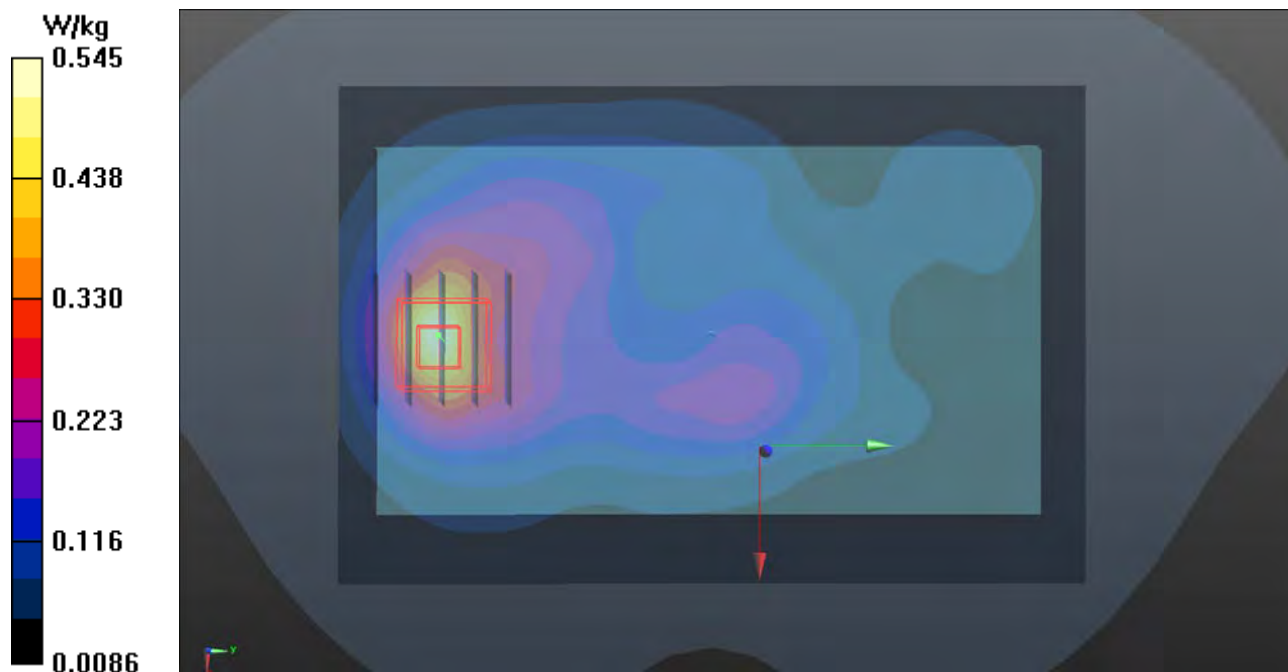
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.82 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.649 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.250 W/kg

Maximum value of SAR (measured) = 0.514 W/kg



P42 WLAN2.4G_802.11b_1M_Rear Face_1cm_Ch1**DUT: 171122C17**

Communication System: WLAN_2.4G; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: B19T27N1_1221 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.973$ S/m; $\epsilon_r = 51.663$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.68, 7.68, 7.68); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.234 W/kg

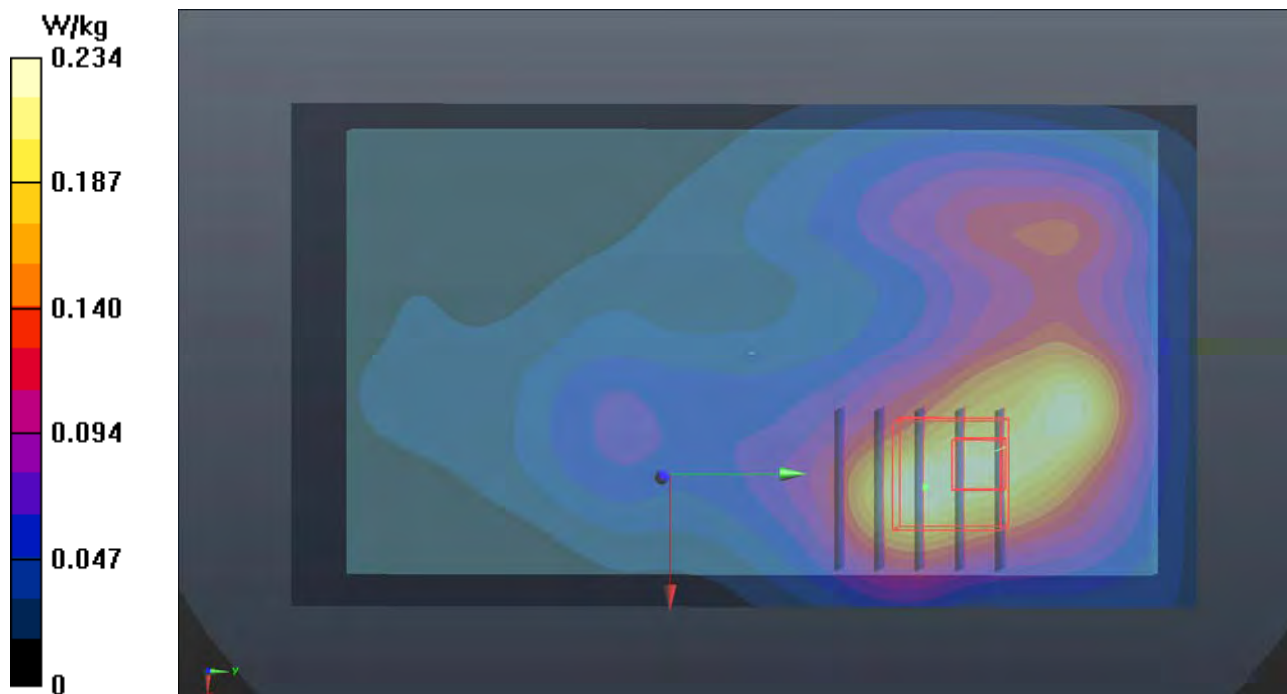
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.78 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.091 W/kg

Maximum value of SAR (measured) = 0.251 W/kg



P43 WLAN5G_802.11ac VHT80_MCS0_Rear Face_1cm_Ch58**DUT: 171122C17**

Communication System: WLAN_5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5290$ MHz; $\sigma = 5.524$ S/m; $\epsilon_r = 46.85$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.18, 5.18, 5.18); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.461 W/kg

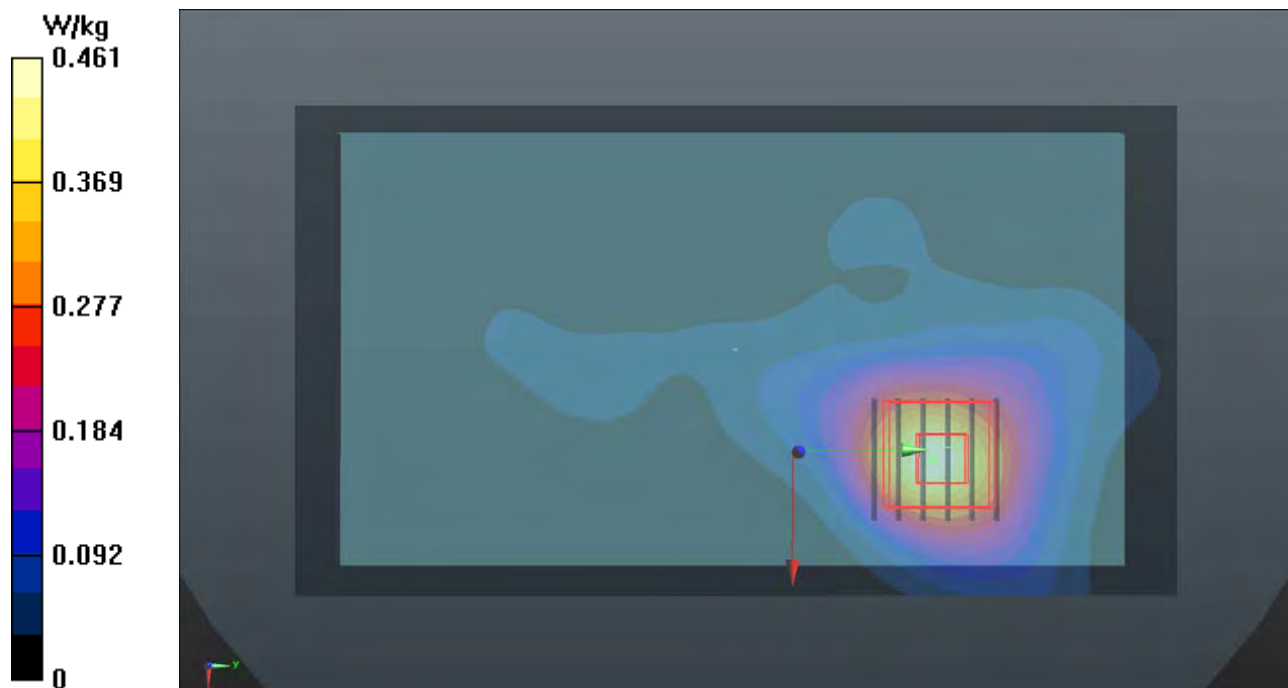
- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 8.365 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.956 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.091 W/kg

Maximum value of SAR (measured) = 0.542 W/kg



P44 WLAN5G_802.11ac VHT80_MCS0_Rear Face_1cm_Ch106**DUT: 171122C17**

Communication System: WLAN_5G; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5530$ MHz; $\sigma = 5.841$ S/m; $\epsilon_r = 46.413$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.33, 4.33, 4.33); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.202 W/kg

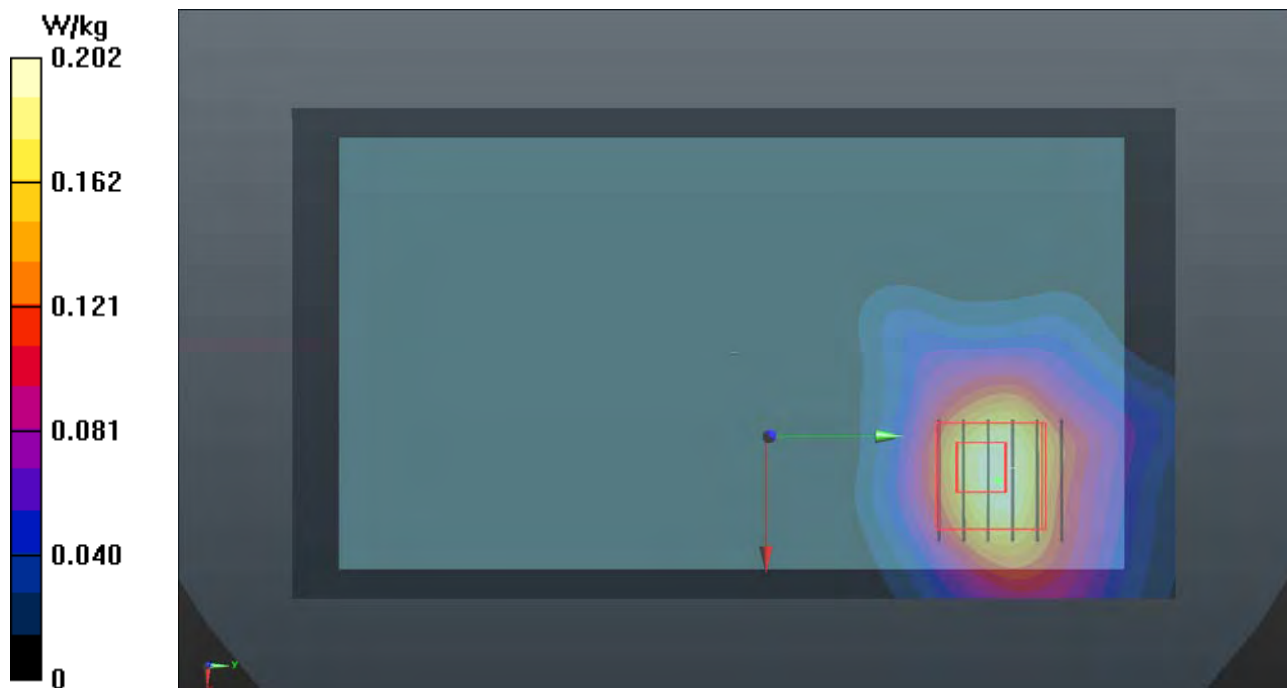
- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.124 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.339 W/kg

SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.029 W/kg

Maximum value of SAR (measured) = 0.196 W/kg



P45 WLAN5G_802.11ac VHT80_MCS0_Front Face_0cm_Ch155_Holster2**DUT: 171122C17**

Communication System: WLAN_5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5775$ MHz; $\sigma = 6.182$ S/m; $\epsilon_r = 46.01$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.69, 4.69, 4.69); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.160 W/kg

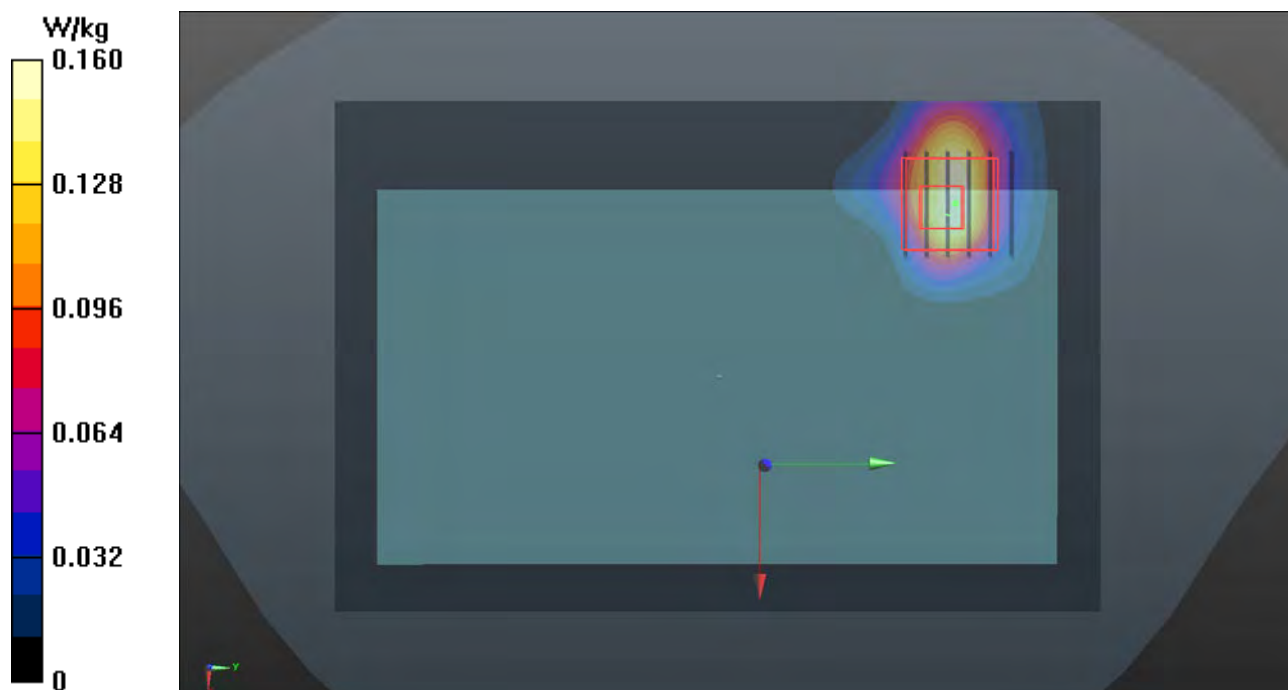
- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.099 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.296 W/kg

SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.127 W/kg



P46 BT_DH1_Rear Face_0cm_Ch0_Holster2**DUT: 171122C17**

Communication System: BT; Frequency: 2402 MHz; Duty Cycle: 1:1

Medium: B19T27N1_1222 Medium parameters used: $f = 2402$ MHz; $\sigma = 1.968$ S/m; $\epsilon_r = 51.214$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.67, 7.67, 7.67); Calibrated: 2017/03/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2017/05/22
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.00614 W/kg

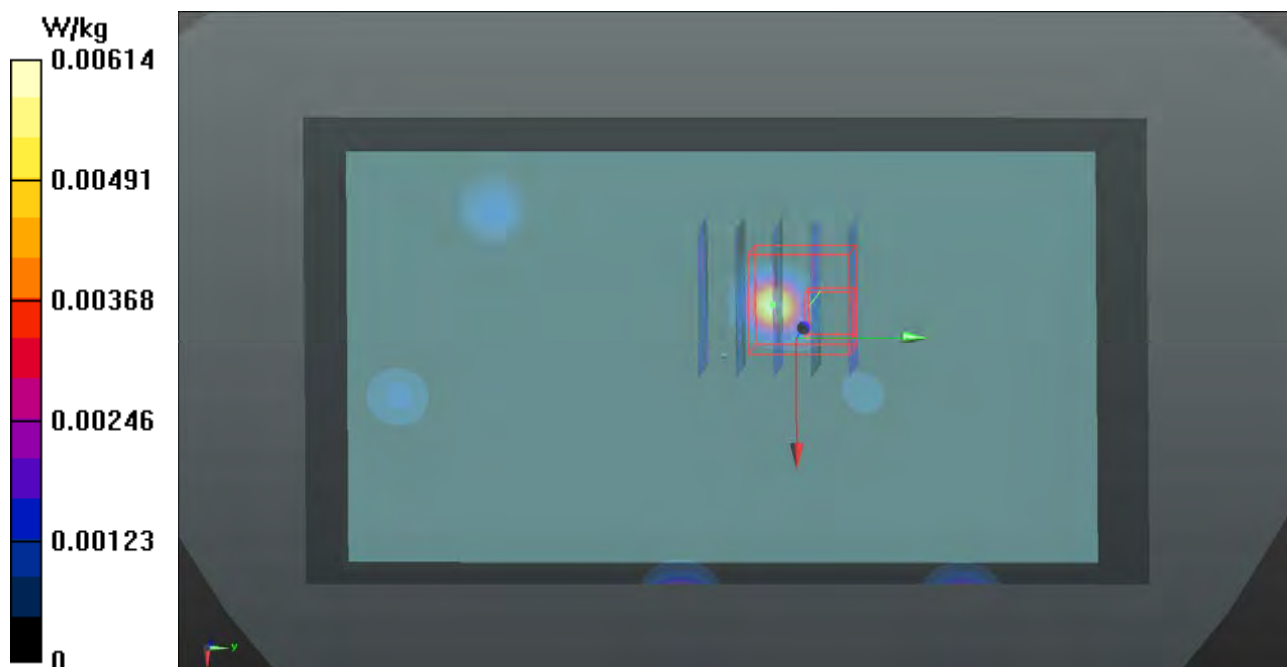
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.7720 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.00997 W/kg

SAR(1 g) = 0.000645 W/kg; SAR(10 g) = 0.000289 W/kg

Maximum value of SAR (measured) = 0.00507 W/kg



P47 LTE 7_QPSK20M_Bottom Side_1cm_Ch21350_1RB_OS0**DUT: 171122C17**

Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: B19T27N1_1207 Medium parameters used: $f = 2560$ MHz; $\sigma = 2.147$ S/m; $\epsilon_r = 50.556$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.37, 7.37, 7.37); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (51x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.39 W/kg

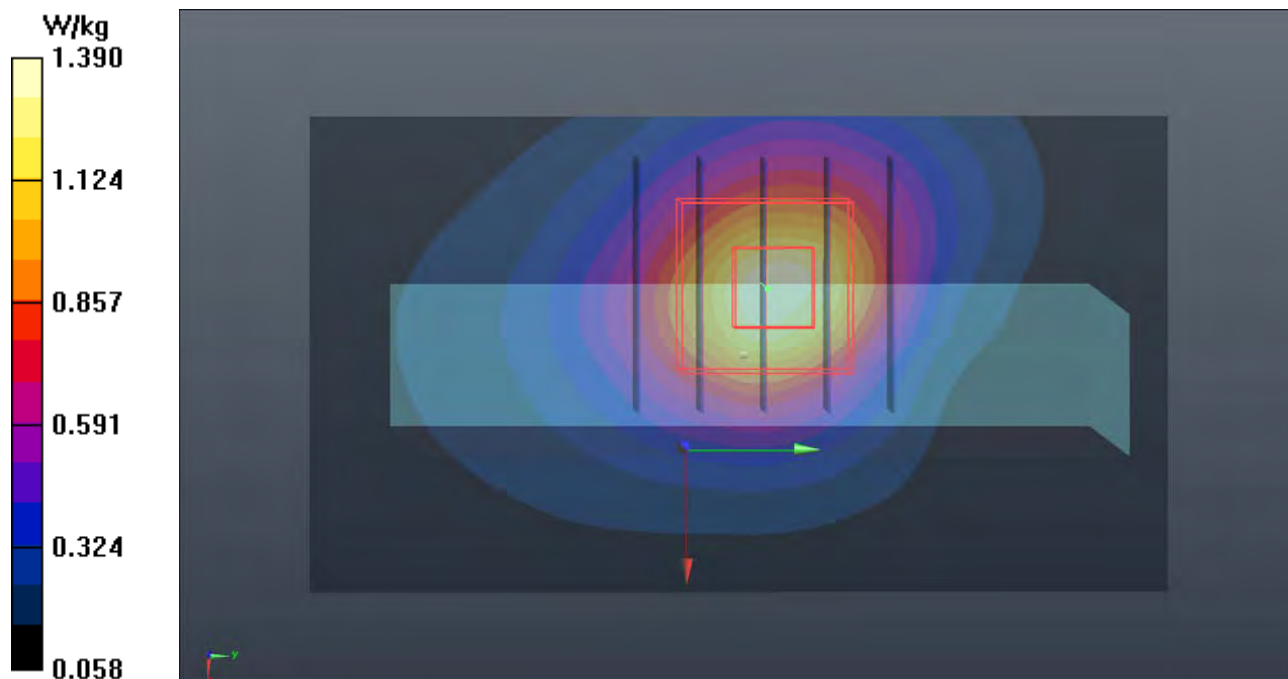
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.98 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.861 W/kg; SAR(10 g) = 0.443 W/kg

Maximum value of SAR (measured) = 1.35 W/kg



P48 LTE 38_QPSK20M_Bottom Side_1cm_Ch38000_1RB_OS0**DUT: 171122C17**

Communication System: LTE TDD CF0; Frequency: 2595 MHz; Duty Cycle: 1:1.58

Medium: B19T27N1_1207 Medium parameters used: $f = 2595$ MHz; $\sigma = 2.188$ S/m; $\epsilon_r = 50.452$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.37, 7.37, 7.37); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (41x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.815 W/kg

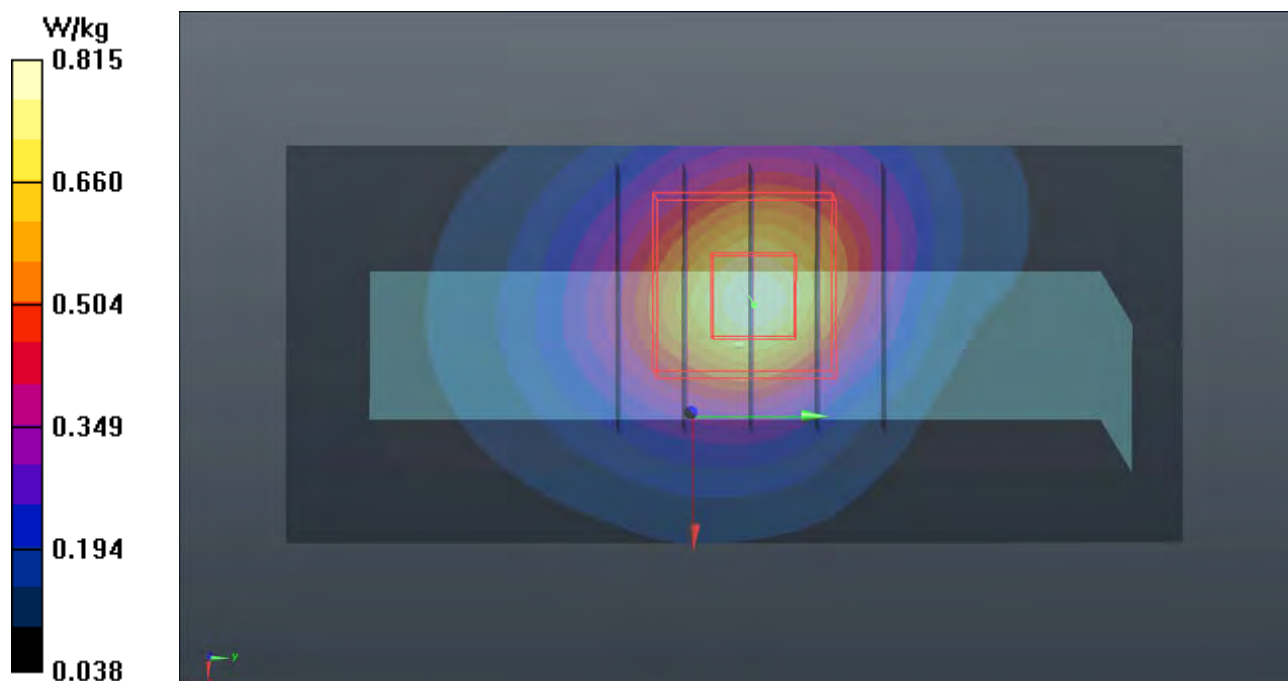
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.95 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.252 W/kg

Maximum value of SAR (measured) = 0.753 W/kg



P49 LTE 41_QPSK20M_Bottom Side_1cm_Ch39750_1RB_OS0**DUT: 171122C17**

Communication System: LTE TDD CF0; Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium: B19T27N1_1207 Medium parameters used: $f = 2506$ MHz; $\sigma = 2.084$ S/m; $\epsilon_r = 50.713$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.37, 7.37, 7.37); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (51x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.809 W/kg

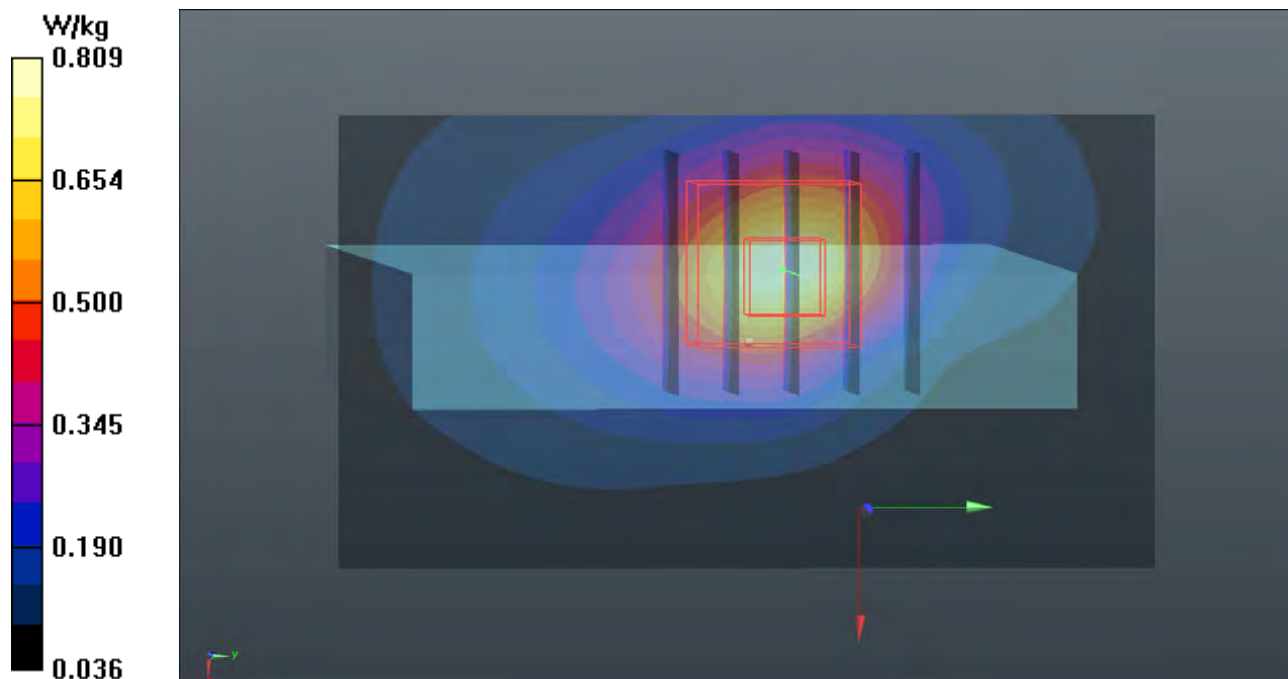
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.37 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.898 W/kg

SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.230 W/kg

Maximum value of SAR (measured) = 0.775 W/kg



P50 WLAN5G_802.11ac VHT80_MCS0_Rear Face_1cm_Ch42**DUT: 171122C17**

Communication System: WLAN_5G; Frequency: 5210 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5210$ MHz; $\sigma = 5.433$ S/m; $\epsilon_r = 47.002$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.4, 4.4, 4.4); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.659 W/kg

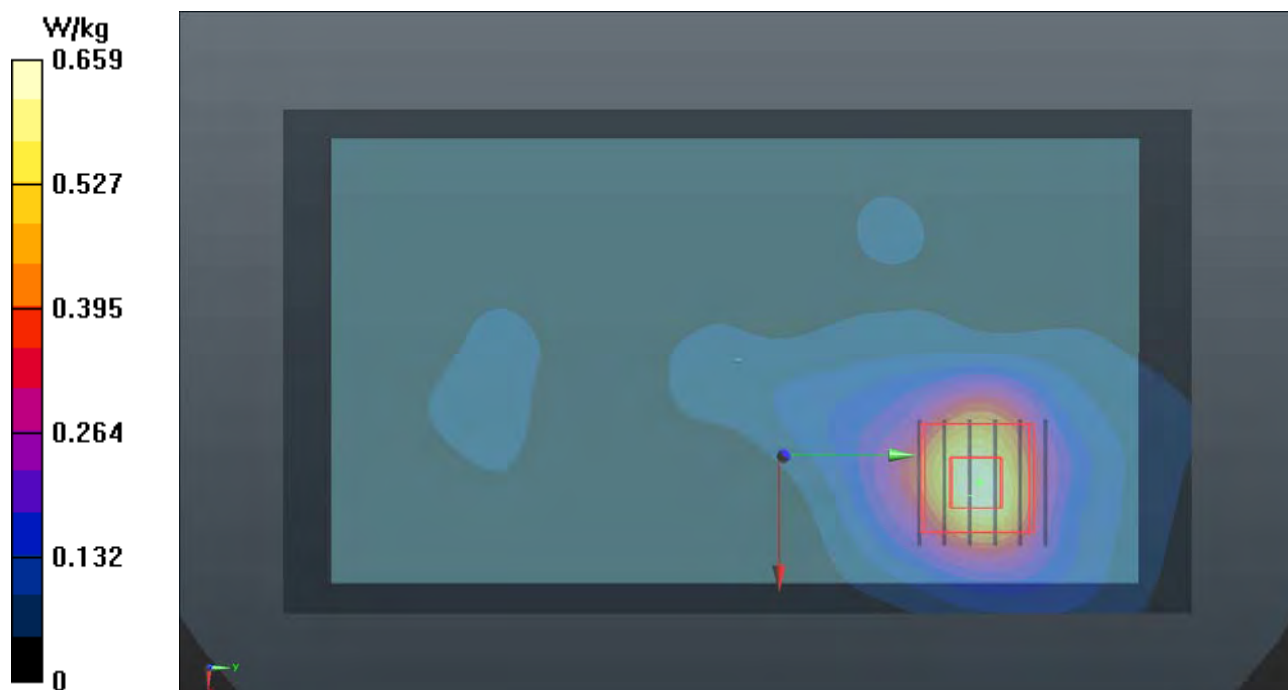
- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 12.36 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.120 W/kg

Maximum value of SAR (measured) = 0.687 W/kg



P51 WLAN5G_802.11ac VHT80_MCS0_Left Side_1cm_Ch155**DUT: 171122C17**

Communication System: WLAN_5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5775$ MHz; $\sigma = 6.182$ S/m; $\epsilon_r = 46.01$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.69, 4.69, 4.69); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (61x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.445 W/kg

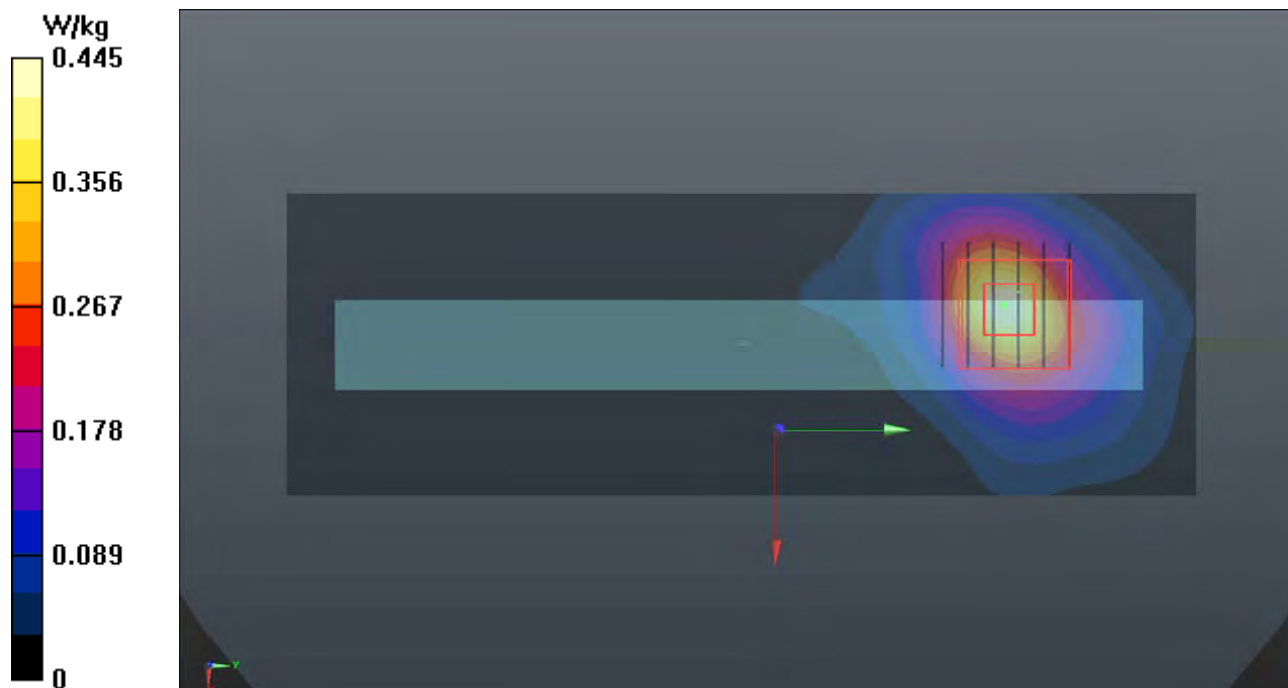
- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 9.434 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.775 W/kg

SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.070 W/kg

Maximum value of SAR (measured) = 0.443 W/kg



P52 BT_DH1_Rear Face_1cm_Ch0**DUT: 171122C17**

Communication System: BT; Frequency: 2402 MHz; Duty Cycle: 1:1

Medium: B19T27N1_1222 Medium parameters used: $f = 2402$ MHz; $\sigma = 1.968$ S/m; $\epsilon_r = 51.214$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.67, 7.67, 7.67); Calibrated: 2017/03/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2017/05/22
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.000591 W/kg

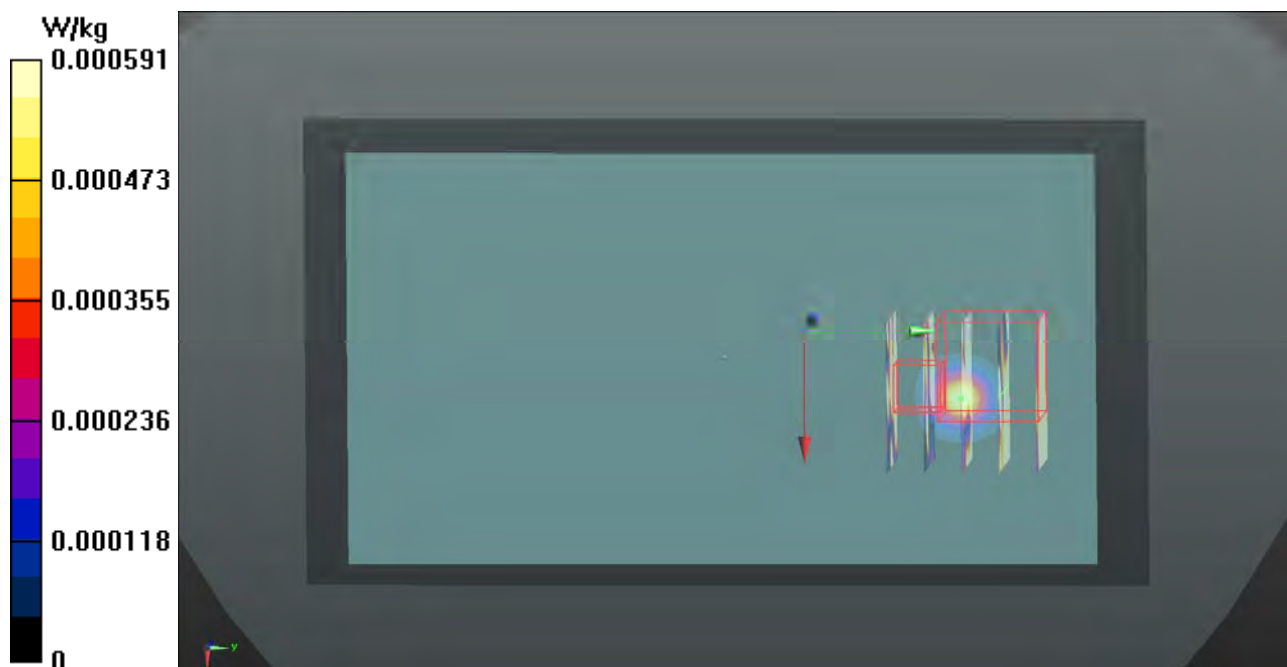
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.4670 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.00264 W/kg

SAR(1 g) = 0.000119 W/kg; SAR(10 g) = 2.67e-005 W/kg

Maximum value of SAR (measured) = 0.00199 W/kg



P53 WLAN5G_802.11ac VHT80_MCS0_Rear Face_0cm_Ch58**DUT: 171122C17**

Communication System: WLAN_5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5290$ MHz; $\sigma = 5.524$ S/m; $\epsilon_r = 46.85$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.18, 5.18, 5.18); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.90 W/kg

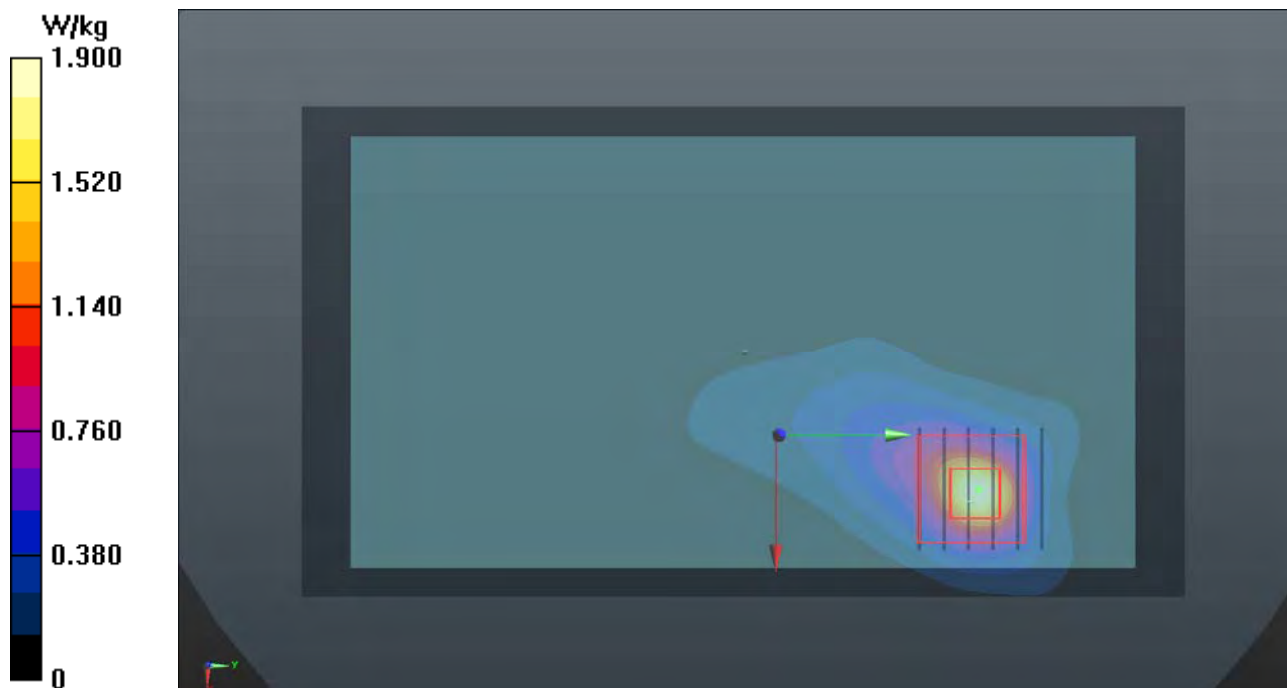
- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 20.07 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.49 W/kg

SAR(1 g) = 0.772 W/kg; SAR(10 g) = 0.237 W/kg

Maximum value of SAR (measured) = 1.90 W/kg



P54 WLAN5G_802.11ac VHT80_MCS0_Left Side_0cm_Ch106**DUT: 171122C17**

Communication System: WLAN_5G; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium: B34T60N3_1220 Medium parameters used: $f = 5530$ MHz; $\sigma = 5.841$ S/m; $\epsilon_r = 46.413$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.33, 4.33, 4.33); Calibrated: 2017/10/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2017/07/31
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (61x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.09 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 14.54 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 0.528 W/kg; SAR(10 g) = 0.160 W/kg

Maximum value of SAR (measured) = 1.36 W/kg

