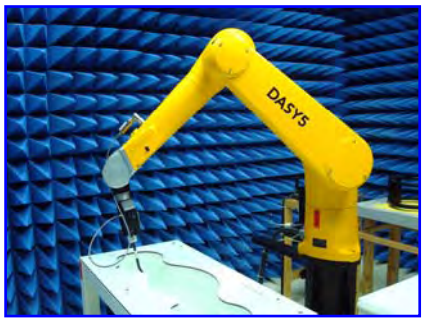
A Test Lab Techno Corp.

Changan Lab：No. 140-1, Changan Street, Bade District, Taoyuan City 33465, Taiwan (R.O.C).
Tel：886-3-271-0188 / Fax：886-3-271-0190

SAR EVALUATION REPORT

Test Report No.	:	1511FS14
Applicant	:	Netgear Incorporated
Applicant Address	:	350 East Plumeria Drive,San Jose, California, United States 95134
Manufacture	:	Netgear Inc.
Manufacture Address	:	Suite 168 – 10760 Shellbridge Way, Richmond, BC Canada V6X 3H1
Product Type	:	AirCard 815S Mobile Hotspot
Trade Name	:	NETGEAR
Model Number	:	AC815S
Date of Received	:	Sep. 22, 2015
Test Period	:	Oct. 19 ~ Dec. 04, 2015
Date of Issued	:	Dec. 14, 2015
Test Environment	:	Ambient Temperature： 22 ±2 ° C Relative Humidity：40 - 70 %
Standard	:	ANSI/IEEE C95.1-1999 / IEEE Std. 1528-2013 KDB 865664 D01 v01r04 / KDB 865664 D02 v01r02 KDB 447498 D01 v06 / KDB 941225 D01 v03r01 KDB 941225 D05 v02r04 / KDB 941225 D06 v02r01 KDB 248227 D01 v02r02
Test Lab Location	:	Chang-an Lab



1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
3. The measurement report has to be written approval of A Test Lab Techno Corp. It may only be reproduced or published in full. This report shall not be reproduced except in full, without the written approval of A Test Lab Techno Corp. The test results in the report only apply to the tested sample.

Approved By : Bill Hu (Bill Hu)

Tested By : Sky Chou (Sky Chou)

Contents

1. Summary of Maximum Reported SAR Value

Equipment Class	Mode	Highest Reported
		Body-Worn stand alone SAR1g (1.0 cm) (W/kg)
PCB	GPRS/EGPRS 850	0.76
	GPRS/EGPRS 1900	1.24
	WCDMA Band II	1.07
	WCDMA Band V	1.16
	LTE Band 2	1.01
	LTE Band 4	1.31
	LTE Band 5	1.02
	LTE Band 7	1.41
	LTE Band 12	1.07
	LTE Band 30	0.87
DTS	WLAN 2.4GHz	0.02
NII	WLAN 5GHz U-NII-1	0.11
	WLAN 5GHz U-NII-3	0.16
Highest Simultaneous Transmission SAR		**Body-Worn Stand alone (W/kg)**
PCB+ NII (Ant0 + Ant1) at test position side5		1.5

Note:1. The SAR limit (Head & Body: SAR1g 1.6 W/kg) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1999

2. Description of Equipment under Test (EUT)

Applicant	Netgear Incorporated 350 East Plumeria Drive,San Jose, California, United States 95134	
Manufacture	Netgear Inc. Suite 168 – 10760 Shellbridge Way, Richmond, BC Canada V6X 3H1	
Product Type	AirCard 815S Mobile Hotspot	
Trade Name	NETGEAR	
Model Number	AC815S	
FCC ID	PY3AC815S	
IMEI No.	014475000001006	
RF Function	GPRS/EGPRS 850 GPRS/EGPRS 1900 WCDMA(RMC 12.2K) / HSDPA / HSUPA Band II WCDMA(RMC 12.2K) / HSDPA / HSUPA Band V LTE Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 30 IEEE 802.11b / 802.11g / 802.11n 2.4GHz 20MHz IEEE 802.11n 2.4GHz 40MHz IEEE 802.11a / IEEE 802.11ac 20MHz IEEE 802.11ac 40MHz IEEE 802.11ac 80MHz	
Tx Frequency	Band	Operate Frequency (MHz)
	GPRS/EGPRS 850	824.2 - 848.8
	GPRS/EGPRS 1900	1850.2 - 1909.8
	WCDMA(RMC 12.2K) / HSDPA / HSUPA Band II	1852.4 - 1907.6
	WCDMA (RMC 12.2K) / HSDPA / HSUPA Band V	826.4 - 846.6
	LTE Band 2 (BW 1.4, 3, 5, 10, 15, 20 MHz)	1850.0 - 1910.0
	LTE Band 4 (BW 1.4, 3, 5, 10, 15, 20 MHz)	1710.0 - 1754.9
	LTE Band 5 (BW 1.4, 3, 5, 10 MHz)	824.0 - 849.0
	LTE Band 7 (BW 5, 10, 15, 20 MHz)	704.0 - 715.9
	LTE Band 12 (BW 1.4, 3, 5, 10 MHz)	1850 - 1915
	LTE Band 30 (BW 5, 10 MHz)	2307.5 – 2312.5
	IEEE 802.11b / 802.11g / 802.11n 2.4GHz 20MHz	2412 - 2462
	IEEE 802.11n 2.4GHz 40MHz	2422 - 2452
	IEEE 802.11a	5180 - 5825
	IEEE 802.11ac 20MHz	5180 - 5825
	IEEE 802.11ac 40MHz	5190 - 5795
	IEEE 802.11ac 80MHz	5210 - 5775
	*GPRS Multi Class: 10	

RF Conducted Power	Band	Power	
		W	dBm
(Avg.)	GPRS/EGPRS 850	1.841	32.65
	GPRS/EGPRS 1900	1.114	30.47
	WCDMA(RMC 12.2K) / HSDPA / HSUPA Band II	0.154	21.87
	WCDMA (RMC 12.2K) / HSDPA / HSUPA Band V	0.195	22.91
	LTE Band 2 (BW 1.4, 3, 5, 10, 15, 20 MHz)	0.167	22.23
	LTE Band 4 (BW 1.4, 3, 5, 10, 15, 20 MHz)	0.170	22.31
	LTE Band 5 (BW 1.4, 3, 5, 10 MHz)	0.229	23.60
	LTE Band 7 (BW 5, 10, 15, 20 MHz)	0.175	22.43
	LTE Band 12 (BW 1.4, 3, 5, 10 MHz)	0.274	24.37
	LTE Band 30 (BW 5, 10 MHz)	0.245	23.90
	IEEE 802.11b	0.007	8.72
	IEEE 802.11g	0.014	11.44
	IEEE 802.11n 2.4GHz 20MHz	0.014	11.41
	IEEE 802.11n 2.4GHz 40MHz	0.014	11.42
	IEEE 802.11a	0.018	12.60
	IEEE 802.11ac 20MHz	0.017	12.41
	IEEE 802.11ac 40MHz	0.017	12.39
	IEEE 802.11ac 80MHz	0.018	12.64
Antenna Type	2GHz/3GHz/4Ghz : Internal IFA type WLAN 2.4GHz/5GHz : Chip Antenna		
Battery Option	Standard		
	Trade Name: NETGEAR Model: W-9 Spec: DC 3.8V / 4340mAh		
Device Category	Portable Device		
Application Type	Certification		

Note:The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

3. Introduction

The A Test Lab Techno Corp. has performed measurements of the maximum potential exposure to the user of **Netgear Incorporated Trade Name：NETGEAR Model(s)：AC815S**. The test procedures, as described in American National Standards, Institute C95.1-1999〔1〕were employed and they specify the maximum exposure limit of 1.6mW/g as averaged over any 1 gram of tissue for portable devices being used within 20cm between user and EUT in the uncontrolled environment. A description of the product and operating configuration, detailed summary of the test results, methodology and procedures used in the equipment used are included within this test report.

3.1 SAR Definition

Specific Absorption Rate (SAR) is defined as 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). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Figure 2).

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

Figure 2. **SAR Mathematical Equation**

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

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

Where：

σ = conductivity of the tissue (S/m)

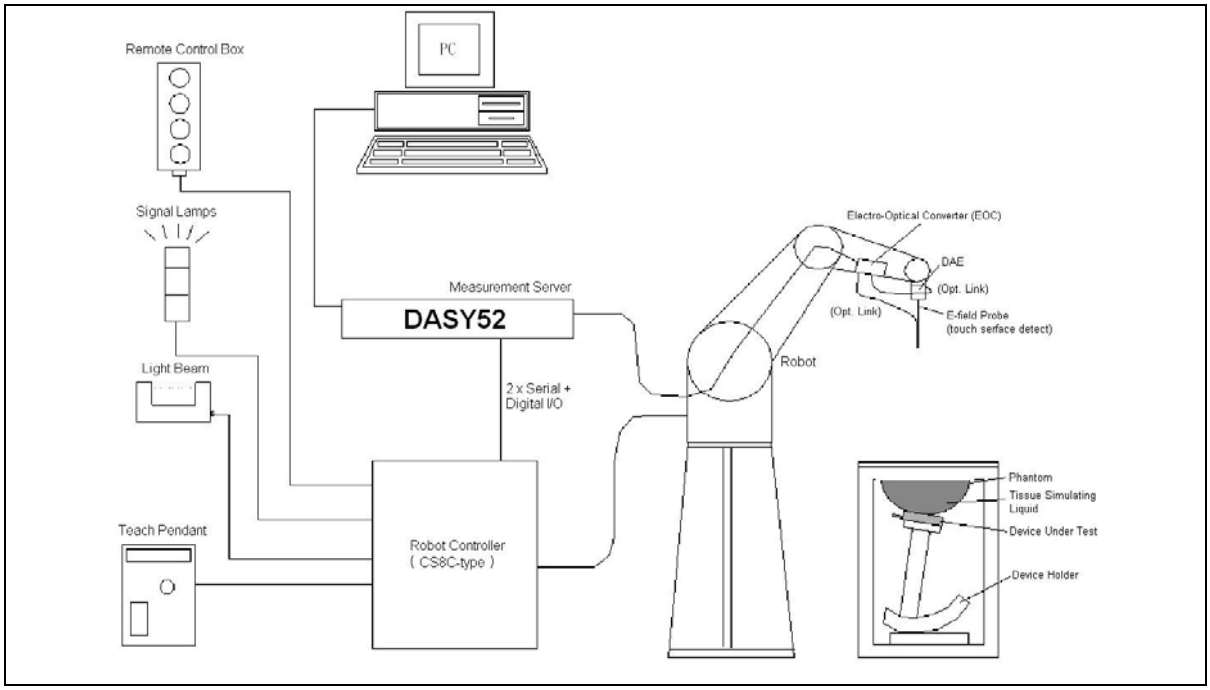
ρ = mass density of the tissue (kg/m3)

E = RMS electric field strength (V/m)

＊Note：

The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane〔2〕

4. SAR Measurement Setup



The DASY52 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Stäubli TX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
5. A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
6. A computer operating Windows 2000 or Windows XP.
7. DASY52 software.
8. Remote controls with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
9. The SAM twin phantom enabling testing left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. Validation dipole kits allowing validating the proper functioning of the system.

4.1 DASY E-Field Probe System

The SAR measurements were conducted with the dosimetric probe (manufactured by SPEAG), designed in the classical triangular configuration〔3〕and optimized for dosimetric evaluation. The probes is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multi-fiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY software reads the reflection during a software approach and looks for the maximum using a 2nd order fitting. The approach is stopped when reaching the maximum.

4.1.1 E-Field Probe Specification

Construction	Symmetrical design with triangular core
	Built-in shielding against static charges
	PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to > 6 GHz
	Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	±0.3 dB in brain tissue (rotation around probe axis)
	±0.5 dB in brain tissue (rotation normal probe axis)
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

Figure 3. E-field Probe

Figure 4. Probe setup on robot

4.1.2 E-Field Probe Calibration process

Dosimetric Assessment Procedure

Each E-Probe/Probe Amplifier combination has unique calibration parameters. A TEM cell calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm^2) using an RF Signal generator, TEM cell, and RF Power Meter.

Free Space Assessment

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1 mW/cm^2.

Temperature Assessment

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated head tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C\frac{\Delta T}{\Delta t}$$

Where：

Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (head or body),

ΔT = Temperature increase due to RF exposure.

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

Where：

σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m^3).

4.2 Data Acquisition Electronic (DAE) System

Model：	DAE3, DAE4
Construction：	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 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

4.3 Robot

Positioner：	Stäubli Unimation Corp. Robot Model: TX90XL
Repeatability：	±0.02 mm
No. of Axis：	6

4.4 Measurement Server

Processor：	PC/104 with a 400MHz intel ULV Celeron
I/O-board：	Link to DAE4 (or DAE3)
	16-bit A/D converter for surface detection system
	Digital I/O interface
	Serial link to robot
	Direct emergency stop output for robot

4.5 Device Holder

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity ε=3 and loss tangent δ=0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

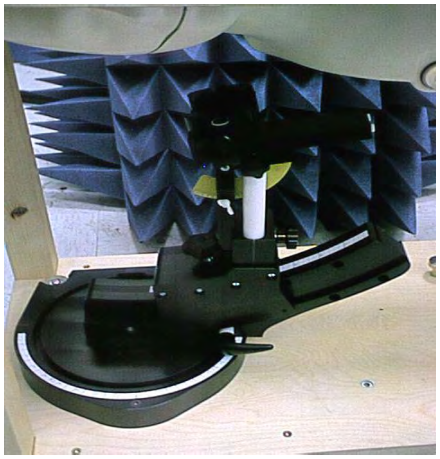


Figure 5. Device Holder

4.6 Oval Flat Phantom - ELI 5.0

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (Oval Flat) phantom defined in IEEE 1528-2013, CENELEC 50361 and IEC 62209-2. It enables the dosimetric evaluation of wireless portable device 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 manually teaching three points with the robot.

Shell Thickness	2 ±0.2 mm
Filling Volume	Approx. 30 liters
Dimensions	190×600×400 mm (H×L×W)

Table 1. Specification of ELI 5.0

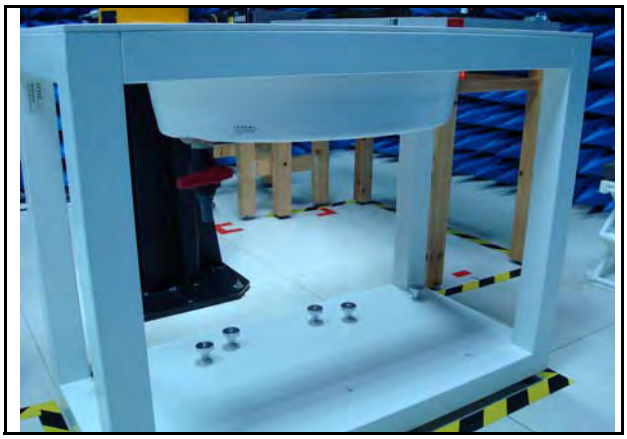


Figure 6. Oval Flat Phantom

4.7 Data Storage and Evaluation

4.7.1 Data Storage

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension DA4 or DA5. The post processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

4.7.2 Data Evaluation

The DASY post processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software：

Probe parameters： - Sensitivity *Normi, ai0, ai1, ai2*
- Conversion factor *ConvFi*
- Diode compression point *dcpi*

Device parameters： - Frequency *f*
- Crest factor *cf*

Media parameters： - Conductivity *σ*
- Density *ρ*

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.
The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as：

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

With *Vi* = compensated signal of channel i (i = x, y, z)
Ui = input signal of channel i (i = x, y, z)
cf = crest factor of exciting field (DASY parameter)
dcpi = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated：

E-field probes： $$E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

H-field probes：

$$H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1} f + a_{i2} f^2}{f}$$

with *Vi* = compensated signal of channel i (i = x, y, z)
Normi= sensor sensitivity of channel i (i = x, y, z)
μV/(V/m)2 for E-field Probes
ConvF = sensitivity enhancement in solution
aij = sensor sensitivity factors for H-field probes
f = carrier frequency [GHz]
Ei = electric field strength of channel i in V/*m*
Hi = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude)：

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with *SAR* = local specific absorption rate in mW/g
Etot = total field strength in V/m
σ = conductivity in [mho/m] or [Siemens/m]
ρ = equivalent tissue density in g/cm3

＊Note：That the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = \frac{E_{tot}^2}{3770} \quad \textit{or} \quad P_{pwe} = \frac{H_{tot}^2}{37.7}$$

with *Ppwe* = equivalent power density of a plane wave in mW/cm2
Etot = total electric field strength in V/m
Htot = total magnetic field strength in A/m

5. Tissue Simulating Liquids

The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the tissue.
The dielectric parameters of the liquids were verified prior to the SAR evaluation using an 85070C Dielectric Probe Kit and an E5071B Network Analyzer.

IEEE SCC-34/SC-2 in 1528 recommended Tissue Dielectric Parameters

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in 1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in human head. Other head and body tissue parameters that have not been specified in 1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equation and extrapolated according to the head parameter specified in 1528.

Target Frequency	Head		Body	
(MHz)	εr	σ (S/m)	εr	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 - 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00
(εr = relative permittivity, σ = conductivity and ρ = 1000 kg/m3)				

Table 2. Tissue dielectric parameters for head and body phantoms

5.1 Ingredients

The following ingredients are used:

- Water: deionized water (pure H_20), resistivity ≥ 16 M Ω -as basis for the liquid
- Sugar: refied white sugar (typically 99.7 % sucrose, available as crystal sugar in food shops) -to reduce relative permittivity
- Salt: pure NaCl -to increase conductivity
- Cellulose: Hydroxyethyl-cellulose, medium viscosity (75-125 mPa.s, 2% in water, 20°C), CAS # 54290 -to increase viscosity and to keep sugar in solution.
- Preservative: Preventol D-7 Bayer AG, D-51368 Leverkusen, CAS # 55965-84-9 -to prevent the spread of bacteria and molds
- DGBE: Diethylenglycol-monobuthyl ether (DGBE), Fluka Chemie GmbH, CAS # 112-34-5 -to reduce relative permittivity

5.2 Recipes

The following tables give the recipes for tissue simulating liquids to be used in different frequency bands.
Note: The goal dielectric parameters (at 22 ℃) must be achieved within a tolerance of ±5% for εand ±5% for σ.

Ingredients (% by weight)	Frequency (MHz)												Frequency (GHz)	
	750		835		1750		1900		2450		2600		5GHz	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	39.28	51.30	41.45	52.40	54.50	40.20	54.90	40.40	62.70	73.20	60.30	71.40	65.5	78.6
Salt (NaCl)	1.47	1.42	1.45	1.50	0.17	0.49	0.18	0.50	0.50	0.10	0.60	0.20	0.00	0.00
Sugar	58.15	46.18	56.00	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEC	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bactericide	0.10	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.2	10.7
DGBE	0.00	0.00	0.00	0.00	45.33	59.31	44.92	59.10	36.80	26.70	39.10	28.40	0.00	0.00
Dielectric Constant	41.88	54.60	42.54	56.10	40.10	53.60	39.90	54.00	39.80	52.50	39.80	52.50	0.00	0.00
Conductivity (S/m)	0.90	0.97	0.91	0.95	1.39	1.49	1.42	1.45	1.88	1.78	1.88	1.78	0.00	0.00
Diethylene Glycol Mono-hexlether	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.3	10.7

Salt: 99+% Pure Sodium Chloride Sugar: 98+% Pure Sucrose
Water: De-ionized, 16 MΩ+ resistivity HEC: Hydroxyethyl Cellulose
DGBE: 99+% Di(ethylene glycol) butyl ether, [2-(2-butoxyethoxy)ethanol]
Triton X-100 (ultra pure): Polyethylene glycol mono [4-(1,1, 3, 3-tetramethylbutyl)phenyl]ether

5.3 Liquid Depth

According to KDB865664 ,the depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm with ≤ ± 0.5 cm variation for SAR measurements ≤ 3 GHz and ≥ 10.0 cm with ≤ ± 0.5 cm variation for measurements > 3 GHz.

Figure 7. Body-Position

6. SAR Testing with RF Transmitters

6.1 SAR Testing with GPRS/EGPRS Transmitters

Configure the basestation to support GMSK and 8PSK call respectively, and set timeslot transmission for GMSK GPRS and 8PSK EDGE. Measure and record power outputs for both modulations, that test is applicable.

6.2 SAR Testing with WCDMA Transmitters

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

- Step 1: set a Test Mode 1 loop back with a 12.2kbps Reference Measurement Channel (RMC).
- Step 2: set and send continuously up power control commands to the device.
- Step 3: measure the power at the device antenna connector using the power meter with average detector and test SAR

6.3 SAR Testing with HSDPA Transmitters

HSDPA Date Devices setup for SAR Measurement

HSDPA should be configured according to the 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 with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors(βc, βd), and HS-DPCCH power offset parameters (ΔACK, ΔNACK, ΔCQI) should be set according to values indicated in the Table below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Setup for Release 5 HSDPA							
Sub-test	βc	βd	βd (SF)	βc/βd	βhs(1,2)	CM(3) (dB)	MRP(3) (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15(4)	15/15(4)	64	12/15(4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note

1. Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 8 ⇔ Ahs = βhs/βc = 30/15 ⇔ βhs= 30/15 *βc
2. For theHS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1A and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and Δ_{NACK} = 30/15 with βhs = 30/15 *βc and Δ_{CQI} = 24/15 with βhs = 24/15*βc
3. CM = 1 for βc/βd =12/15, βhs/βc=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.
4. For subtest 2 the βc/βd ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to βc = 11/15 and βd = 15/15.

HSPA Date Devices setup for SAR Measurement.

The following procedures are applicable to HSPA (HSUPA/HSDPA) data devices operating under 3GPP Release 6. Body exposure conditions generally apply to these devices, including handsets and data modems operating in various electronic devices. HSUPA operates in conjunction with WCDMA and HSDPA. SAR is initially measured in WCDMA test configurations without HSPA. The default test configuration is to establish a radio link between the DUT and a communication test set to configure a 12.2 kbps RMC (reference measurement channel) in Test Loop Mode 1. SAR for HSPA is selectively measured with HS-DPCCH, EDPCCH and E-DPDCH, all enabled, along with a 12.2 kbps RMC using the highest SAR configuration in WCDMA with 12.2 kbps RMC only. An FRC is configured according to HSDPCCH Sub-test 1 using H-set 1 and QPSK. HSPA is configured according to E-DCH Subtest 5 requirements. SAR for other HSPA sub-test configurations is also confirmed selectively according to output power, exposure conditions and E-DCH UE Category. Maximum output power is verified according to procedures in applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. The UE Categories for HSDPCCH and HSPA should be clearly identified in the SAR report. The following procedures are applicable only if Maximum Power Reduction (MPR) is implemented according to Cubic Metric (CM) requirements.

When voice transmission and head exposure conditions are applicable to a WCDMA/HSPA data device, head exposure is measured according to the 'Head SAR Measurements' procedures in the 'WCDMA Handsets' section of this document. SAR for body exposure configurations are measured according to the 'Body SAR Measurements' procedures in the 'WCDMA Handsets' section of this document. In addition, body SAR is also measured for HSPA when the maximum average output of each RF channel with HSPA active is at least ¼ dB higher than that measured without HSPA using 12.2 kbps RMC or the maximum SAR for 12.2 kbps RMC is above 75% of the SAR limit. 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 with power control algorithm 2, according to the highest body SAR configuration in 12.2 kbps RMC without HSPA. When VOIP is applicable for head exposure, SAR is not required when the maximum output of each RF channel with HSPA is less than ¼ dB higher than that measured using 12.2 kbps RMC; otherwise, the same HSPA configuration used for body measurements should be used to test for head exposure.

Due to inner loop power control requirements in HSPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA should be configured according to the β values indicated below as well as other applicable procedures described in the 'WCDMA Handset' and 'Release 5 HSDPA Data Devices' sections of this document.

The highest body SAR measured in Antenna Extended & Retracted configurations on a channel in 12.2 kbps RMC. The possible channels are the High, Middle & Low channel. Contact the FCC Laboratory for test and approval requirements if the maximum output power measured in E-DCH Sub-test 2 - 4 is higher than Sub-test 5.

Setup for Release 6 HSPA / Release 7 HSPA+													
Sub-test	βc	βd	βd (SF)	βc/βd	βhs(1)	βec	βed	Bed (SF)	Bed (codes)	CM(2) (dB)	MPR (dB)	AG(4) Index	E-TFCI
1	11/15(3)	15/15(3)	64	11/15(3)	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	βed1: 47/15 βed2: 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15(4)	15/15(4)	64	15/15(4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note

1. Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 8 ⇔ Ahs = βhs/βc = 30/15 ⇔ βhs= 30/15 *βc.
2. CM = 1 for βc/βd =12/15, βhs/βc=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.
3. For subtest 1 the βc/βd ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to βc = 10/15 and βd = 15/15.
4. For subtest 5 the βc/βd ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to βc = 14/15 and βd = 15/15.
5. Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.
6. βed can not be set directly; it is set by Absolute Grant Value.

6.4 SAR Testing with LTE-FDD Transmitters

All SAR measurements for LTE were performed using the Anritsu MT8820C. A closed loop power control setting allowed the UE to transmit at the maximum output power during the SAR measurements.Configure the basestation to support LTE tests in respect to the 3GPP 36.521-1,and set ch , RB allocation number ,RB allocation offset , and send continuously Up power control commands to the device.
MPR was enabled for this device. A-MPR was disabled for all SAR test measurements.

6.5 LTE Frequency range and channel bandwidth

Channel bandwidth support:

Band	BW (MHz)					
	1.4	3	5	10	15	20
LTE Band 2	V	V	V	V	V	V
LTE Band 4	V	V	V	V	V	V
LTE Band 5	V	V	V	V		
LTE Band 7			V	V	V	V
LTE Band 12	V	V	V	V		
LTE Band 30			V	V		

LTE Band	Bandwidth (MHz)	Test requency ID	N_{UL}	Frequency of Uplink (MHz)
LTE Band 2	1.4	Low Range	18607	1850.7
		Mid Range	18900	1880.0
		High Range	19193	1909.3
	3	Low Range	18615	1851.5
		Mid Range	18900	1880.0
		High Range	19185	1908.5
	5	Low Range	18625	1852.5
		Mid Range	18900	1880.0
		High Range	19175	1907.5
	10	Low Range	18650	1855.0
		Mid Range	18900	1880.0
		High Range	19150	1905.0
	15	Low Range	18675	1857.5
		Mid Range	18900	1880.0
		High Range	19125	1902.5
	20	Low Range	18700	1860.0
		Mid Range	18900	1880.0
		High Range	19100	1900.0

LTE Band	Bandwidth (MHz)	Test requency ID	N_{UL}	Frequency of Uplink (MHz)
LTE Band 4	1.4	Low Range	19957	1710.7
		Mid Range	20175	1732.5
		High Range	20393	1754.3
	3	Low Range	19965	1711.5
		Mid Range	20175	1732.5
		High Range	20385	1753.5
	5	Low Range	19975	1712.5
		Mid Range	20175	1732.5
		High Range	20375	1752.5
	10	Low Range	20000	1715.0
		Mid Range	20175	1732.5
		High Range	20350	1750.0
	15	Low Range	20025	1717.5
		Mid Range	20175	1732.5
		High Range	20325	1747.5
	20	Low Range	20050	1720.0
		Mid Range	20175	1732.5
		High Range	20300	1745.0
LTE Band 5	1.4	Low Range	20407	824.7
		Mid Range	20525	836.5
		High Range	20643	848.3
	3	Low Range	20415	825.5
		Mid Range	20525	836.5
		High Range	20635	847.5
	5	Low Range	20425	826.5
		Mid Range	20525	836.5
		High Range	20625	846.5
	10	Low Range	20450	829.0
		Mid Range	20525	836.5
		High Range	20600	844.0

LTE Band	Bandwidth (MHz)	Test requency ID	N_{UL}	Frequency of Uplink (MHz)
LTE Band 7	5	Low Range	20775	2502.5
		Mid Range	21100	2535.0
		High Range	21425	2567.5
	10	Low Range	20800	2505.0
		Mid Range	21100	2535.0
		High Range	21400	2565.0
	15	Low Range	20825	2507.5
		Mid Range	21100	2535.0
		High Range	21375	2562.5
	20	Low Range	20850	2510.0
		Mid Range	21100	2535.0
		High Range	21350	2560.0
LTE Band 12	1.4	Low Range	23017	699.7
		Mid Range	23095	707.5
		High Range	23173	715.3
	3	Low Range	23025	700.5
		Mid Range	23095	707.5
		High Range	23165	714.5
	5	Low Range	23035	701.5
		Mid Range	23095	707.5
		High Range	23155	713.5
	10	Low Range	23060	704.0
		Mid Range	23095	707.5
		High Range	23130	711.0
LTE Band 30	5	Low Range	27685	2307.5
		Mid Range	27710	2310.0
		High Range	27735	2312.5
	10	Mid Range	27710	2310.0

6.5.1 Maximum power reduction (MPR)

Identify the LTE voice/data requirements in each operating mode and exposure condition with respect to head and body test configurations, antenna locations, handset flip-cover or slide positions, antenna diversity conditions etc.

The voice and data transmission:

- Data only device.

Identify if Maximum Power Reduction (MPR) is optional or mandatory, i.e. built-in by design:

- Maximum Power Reduction (MPR) is mandatory, i.e. built-in by design.
- A-MPR (additional MPR) must be disabled
- A-MPR was disabled during testing.

Maximum Power Reduction (MPR) for Power Class 3							
Channel bandwidth / Transmission bandwidth configuration (RB)							
Modulation	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20MHz	MPR (dB)
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

6.6 Power reduction

No power reduction issue.

6.7 SAR Testing with 802.11 Transmitters

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; these are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the initial test position(s) by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The initial test position(s) is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s). When the reported SAR for the initial test position is:

- ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.
- > 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions are tested.
  - For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
  - When it is unclear, all equivalent conditions must be tested.

- For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required test channels are considered.
  - The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.

- When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is ≤ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.
- When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

To determine the initial test position, Area Scans were performed to determine the position with the Maximum Value of SAR (measured). The position that produced the highest Maximum Value of SAR is considered the worst case position; thus used as the initial test position.

6.8 Conducted Power

Band	Modulation	Data Rate	CH	Frequency (MHz)	Average Power (dBm)	
					Time Average	Burst Average
GPRS 850 Multi Class :10 Max Up:2 Max Down:4 Sum:5	GMSK	4Down1Up Duty factor 1/8	Lowest	824.2	23.61	32.64
			Middle	836.6	23.62	32.65
			Highest	848.8	23.56	32.59
		3Down2Up Duty factor 2/8	Lowest	824.2	26.11	32.13
			Middle	836.6	26.08	32.10
			Highest	848.8	25.96	31.98
EGPRS 850 Multi Class :10 Max Up:2 Max Down:4 Sum:5	8PSK	4Down1Up Duty factor 1/8	Lowest	824.2	17.84	26.87
			Middle	836.6	17.86	26.89
			Highest	848.8	17.83	26.86
		3Down2Up Duty factor 2/8	Lowest	824.2	19.71	25.73
			Middle	836.6	19.74	25.76
			Highest	848.8	19.71	25.73
GPRS 1900 Multi Class :10 Max Up:2 Max Down:4 Sum:5	GMSK	4Down1Up Duty factor 1/8	Lowest	1850.2	21.43	30.46
			Middle	1880.0	21.44	30.47
			Highest	1909.8	21.42	30.45
		3Down2Up Duty factor 2/8	Lowest	1850.2	22.95	28.97
			Middle	1880.0	22.76	28.78
			Highest	1909.8	22.60	28.62
EGPRS 1900 Multi Class :10 Max Up:2 Max Down:4 Sum:5	8PSK	4Down1Up Duty factor 1/8	Lowest	1850.2	16.39	25.42
			Middle	1880.0	16.36	25.39
			Highest	1909.8	16.24	25.27
		3Down2Up Duty factor 2/8	Lowest	1850.2	18.38	24.40
			Middle	1880.0	18.31	24.33
			Highest	1909.8	18.17	24.19

Note: 1. Time Average power slot duty cycle factor calculate:

1up: Average burst power+10*LOG(1/8)

2up: Average burst power+10*LOG(2/8)

3up: Average burst power+10*LOG(3/8)

4up: Average burst power+10*LOG(4/8)

Band	Modulation	Sub-test	CH	Frequency (MHz)	Burst Average Power (dBm)
WCDMA Band II	RMC12.2K	---	Lowest	1852.4	21.75
			Middle	1880.0	21.87
			Highest	1907.6	21.69
HSDPA Band II	QPSK	1	Lowest	1852.4	21.15
			Middle	1880.0	21.20
			Highest	1907.6	21.04
		2	Lowest	1852.4	20.89
			Middle	1880.0	21.16
			Highest	1907.6	21.02
		3	Lowest	1852.4	20.57
			Middle	1880.0	20.72
			Highest	1907.6	20.51
		4	Lowest	1852.4	20.54
			Middle	1880.0	20.67
			Highest	1907.6	20.56
HSUPA Band II	QPSK	1	Lowest	1852.4	17.69
			Middle	1880.0	17.77
			Highest	1907.6	17.64
		2	Lowest	1852.4	16.91
			Middle	1880.0	17.01
			Highest	1907.6	16.98
		3	Lowest	1852.4	17.88
			Middle	1880.0	17.97
			Highest	1907.6	17.82
		4	Lowest	1852.4	16.82
			Middle	1880.0	16.99
			Highest	1907.6	16.86
		5	Lowest	1852.4	20.47
			Middle	1880.0	20.59
			Highest	1907.6	20.45

Band	Modulation	Sub-test	CH	Frequency (MHz)	Burst Average Power (dBm)
WCDMA Band V	RMC12.2K	---	Lowest	826.4	22.85
			Middle	836.6	22.91
			Highest	846.6	22.78
HSDPA Band V	QPSK	1	Lowest	826.4	21.97
			Middle	836.6	22.01
			Highest	846.6	21.93
		2	Lowest	826.4	21.82
			Middle	836.6	21.97
			Highest	846.6	21.82
		3	Lowest	826.4	21.36
			Middle	836.6	21.48
			Highest	846.6	21.38
		4	Lowest	826.4	21.34
			Middle	836.6	21.46
			Highest	846.6	21.37
HSUPA Band V	QPSK	1	Lowest	826.4	19.11
			Middle	836.6	19.01
			Highest	846.6	18.97
		2	Lowest	826.4	16.87
			Middle	836.6	17.05
			Highest	846.6	16.84
		3	Lowest	826.4	18.23
			Middle	836.6	18.35
			Highest	846.6	18.16
		4	Lowest	826.4	16.92
			Middle	836.6	17.01
			Highest	846.6	16.88
		5	Lowest	826.4	20.65
			Middle	836.6	20.74
			Highest	846.6	20.61

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	1.4 MHz	QPSK	18607	1850.7	1	0	**22.02**	**0.159**
					1	2	21.98	0.158
					1	5	21.87	0.154
					3	0	21.87	0.154
					3	1	21.68	0.147
					3	3	21.65	0.146
					6	0	20.78	0.120
			18900	1880.0	1	0	22.01	0.159
					1	2	22.00	0.158
					1	5	21.91	0.155
					3	0	21.88	0.154
					3	1	21.87	0.154
					3	3	21.79	0.151
					6	0	20.76	0.119
			19193	1909.3	1	0	21.88	0.154
					1	2	21.81	0.152
					1	5	21.81	0.152
					3	0	21.76	0.150
					3	1	21.71	0.148
					3	3	21.50	0.141
					6	0	20.70	0.117
		16QAM	18607	1850.7	1	0	21.72	0.149
					1	2	21.69	0.148
					1	5	21.68	0.147
					3	0	21.05	0.127
					3	1	20.98	0.125
					3	3	20.88	0.122
					6	0	20.70	0.117
			18900	1880.0	1	0	21.24	0.133
					1	2	21.22	0.132
					1	5	21.18	0.131
					3	0	20.95	0.124
					3	1	20.93	0.124
					3	3	20.79	0.120
					6	0	20.19	0.104
			19193	1909.3	1	0	**21.76**	**0.150**
					1	2	21.70	0.148
					1	5	21.69	0.148
					3	0	20.88	0.122
					3	1	20.84	0.121
					3	3	20.73	0.118
					6	0	20.70	0.117

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	3 MHz	QPSK	18615	1851.5	1	0	21.85	0.153
					1	8	21.81	0.152
					1	14	21.76	0.150
					8	0	20.88	0.122
					8	4	20.87	0.122
					8	7	20.86	0.122
					15	0	20.86	0.122
			18900	1880.0	1	0	**21.92**	**0.156**
					1	8	21.91	0.155
					1	14	21.87	0.154
					8	0	20.88	0.122
					8	4	20.84	0.121
					8	7	20.83	0.121
					15	0	20.80	0.120
			19185	1908.5	1	0	21.84	0.153
					1	8	21.83	0.152
					1	14	21.77	0.150
					8	0	20.85	0.122
					8	4	20.83	0.121
					8	7	20.82	0.121
					15	0	20.80	0.120
		16QAM	18615	1851.5	1	0	**21.23**	**0.133**
					1	8	21.13	0.130
					1	14	21.04	0.127
					8	0	19.96	0.099
					8	4	19.95	0.099
					8	7	19.94	0.099
					15	0	19.88	0.097
			18900	1880.0	1	0	21.17	0.131
					1	8	21.17	0.131
					1	14	21.09	0.129
					8	0	19.92	0.098
					8	4	19.90	0.098
					8	7	19.88	0.097
					15	0	19.85	0.097
			19185	1908.5	1	0	21.12	0.129
					1	8	21.08	0.128
					1	14	21.02	0.126
					8	0	19.84	0.096
					8	4	19.83	0.096
					8	7	19.83	0.096
					15	0	19.80	0.095

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz	QPSK	18625	1852.5	1	0	21.94	0.156
					1	12	21.90	0.155
					1	24	21.84	0.153
					12	0	20.93	0.124
					12	6	20.92	0.124
					12	13	20.92	0.124
					25	0	20.89	0.123
			18900	1880.0	1	0	**22.08**	**0.161**
					1	12	21.89	0.155
					1	24	21.82	0.152
					12	0	20.93	0.124
					12	6	20.86	0.122
					12	13	20.86	0.122
					25	0	20.80	0.120
			19175	1907.5	1	0	21.94	0.156
					1	12	21.84	0.153
					1	24	21.74	0.149
					12	0	20.80	0.120
					12	6	20.79	0.120
					12	13	20.79	0.120
					25	0	20.75	0.119
		16QAM	18625	1852.5	1	0	21.25	0.133
					1	12	21.17	0.131
					1	24	21.16	0.131
					12	0	19.96	0.099
					12	6	19.95	0.099
					12	13	19.95	0.099
					25	0	19.94	0.099
			18900	1880.0	1	0	21.29	0.135
					1	12	21.09	0.129
					1	24	21.05	0.127
					12	0	19.95	0.099
					12	6	19.91	0.098
					12	13	19.87	0.097
					25	0	19.84	0.096
			19175	1907.5	1	0	**21.87**	**0.154**
					1	12	21.09	0.129
					1	24	21.00	0.126
					12	0	19.81	0.096
					12	6	19.81	0.096
					12	11	19.80	0.095
					25	0	19.74	0.094

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz with CA power Pcc: Band 2 Scc: Band 5 (5M)	QPSK	18625	1852.5	1	0	21.56	0.143
					1	12	21.49	0.141
					1	24	21.52	0.142
					12	0	20.56	0.114
					12	6	20.48	0.112
					12	13	20.51	0.112
					25	0	20.46	0.111
			18900	1880.0	1	0	**21.61**	**0.145**
					1	12	21.38	0.137
					1	24	21.34	0.136
					12	0	20.42	0.110
					12	6	20.36	0.109
					12	13	20.42	0.110
					25	0	20.34	0.108
			19175	1907.5	1	0	21.51	0.142
					1	12	21.40	0.138
					1	24	21.43	0.139
					12	0	20.51	0.112
					12	6	20.55	0.114
					12	13	20.48	0.112
					25	0	20.48	0.112
		16QAM	18625	1852.5	1	0	20.79	0.120
					1	12	**20.84**	**0.121**
					1	24	20.72	0.118
					12	0	19.48	0.089
					12	6	19.49	0.089
					12	13	19.54	0.090
					25	0	19.53	0.090
			18900	1880.0	1	0	20.80	0.120
					1	12	20.64	0.116
					1	24	20.54	0.113
					12	0	19.46	0.088
					12	6	19.46	0.088
					12	13	19.44	0.088
					25	0	19.33	0.086
			19175	1907.5	1	0	20.72	0.118
					1	12	20.53	0.113
					1	24	20.48	0.112
					12	0	19.49	0.089
					12	6	19.52	0.090
					12	11	19.39	0.087
					25	0	19.37	0.086

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz with CA power Pcc: Band 2 Scc: Band 5 (10M)	QPSK	18625	1852.5	1	0	21.55	0.143
					1	12	21.52	0.142
					1	24	21.52	0.142
					12	0	20.48	0.112
					12	6	20.46	0.111
					12	13	20.54	0.113
					25	0	20.50	0.112
			18900	1880.0	1	0	**21.59**	**0.144**
					1	12	21.41	0.138
					1	24	21.33	0.136
					12	0	20.43	0.110
					12	6	20.40	0.110
					12	13	20.37	0.109
					25	0	20.36	0.109
			19175	1907.5	1	0	21.49	0.141
					1	12	21.40	0.138
					1	24	21.33	0.136
					12	0	20.52	0.113
					12	6	20.50	0.112
					12	13	20.47	0.111
					25	0	20.46	0.111
		16QAM	18625	1852.5	1	0	**20.85**	**0.122**
					1	12	20.76	0.119
					1	24	20.72	0.118
					12	0	19.56	0.090
					12	6	19.53	0.090
					12	13	19.55	0.090
					25	0	19.55	0.090
			18900	1880.0	1	0	20.80	0.120
					1	12	20.59	0.115
					1	24	20.57	0.114
					12	0	19.49	0.089
					12	6	19.38	0.087
					12	13	19.35	0.086
					25	0	19.33	0.086
			19175	1907.5	1	0	20.75	0.119
					1	12	20.56	0.114
					1	24	20.52	0.113
					12	0	19.50	0.089
					12	6	19.46	0.088
					12	11	19.41	0.087
					25	0	19.42	0.087

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz with CA power Pcc: Band 2 Scc: Band 12 (3M)	QPSK	18625	1852.5	1	0	21.53	0.142
					1	12	21.49	0.141
					1	24	21.43	0.139
					12	0	20.55	0.114
					12	6	20.53	0.113
					12	13	20.47	0.111
					25	0	20.46	0.111
			18900	1880.0	1	0	**21.60**	**0.145**
					1	12	21.44	0.139
					1	24	21.38	0.137
					12	0	20.44	0.111
					12	6	20.40	0.110
					12	13	20.41	0.110
					25	0	20.28	0.107
			19175	1907.5	1	0	21.50	0.141
					1	12	21.38	0.137
					1	24	21.40	0.138
					12	0	20.53	0.113
					12	6	20.47	0.111
					12	13	20.53	0.113
					25	0	20.42	0.110
		16QAM	18625	1852.5	1	0	20.78	0.120
					1	12	20.76	0.119
					1	24	20.77	0.119
					12	0	19.56	0.090
					12	6	19.51	0.089
					12	13	19.50	0.089
					25	0	19.47	0.089
			18900	1880.0	1	0	**20.83**	**0.121**
					1	12	20.65	0.116
					1	24	20.64	0.116
					12	0	19.47	0.089
					12	6	19.40	0.087
					12	13	19.37	0.086
					25	0	19.37	0.086
			19175	1907.5	1	0	20.66	0.116
					1	12	20.52	0.113
					1	24	20.47	0.111
					12	0	19.48	0.089
					12	6	19.45	0.088
					12	11	19.44	0.088
					25	0	19.40	0.087

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz with CA power Pcc: Band 2 Scc: Band 12 (5M)	QPSK	18625	1852.5	1	0	21.52	0.142
					1	12	21.47	0.140
					1	24	21.47	0.140
					12	0	20.51	0.112
					12	6	20.49	0.112
					12	13	20.47	0.111
					25	0	20.54	0.113
			18900	1880.0	1	0	**21.54**	**0.143**
					1	12	21.35	0.136
					1	24	21.29	0.135
					12	0	20.48	0.112
					12	6	20.40	0.110
					12	13	20.40	0.110
					25	0	20.35	0.108
			19175	1907.5	1	0	21.44	0.139
					1	12	21.36	0.137
					1	24	21.41	0.138
					12	0	20.55	0.114
					12	6	20.50	0.112
					12	13	20.49	0.112
					25	0	20.47	0.111
		16QAM	18625	1852.5	1	0	**20.87**	**0.122**
					1	12	20.81	0.121
					1	24	20.71	0.118
					12	0	19.53	0.090
					12	6	19.52	0.090
					12	13	19.49	0.089
					25	0	19.50	0.089
			18900	1880.0	1	0	20.85	0.122
					1	12	20.57	0.114
					1	24	20.60	0.115
					12	0	19.53	0.090
					12	6	19.48	0.089
					12	13	19.39	0.087
					25	0	19.34	0.086
			19175	1907.5	1	0	20.69	0.117
					1	12	20.56	0.114
					1	24	20.47	0.111
					12	0	19.50	0.089
					12	6	19.51	0.089
					12	11	19.44	0.088
					25	0	19.38	0.087

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz with CA power Pcc: Band 2 Scc: Band 12 (10M)	QPSK	18625	1852.5	1	0	21.51	0.142
					1	12	**21.54**	**0.143**
					1	24	21.43	0.139
					12	0	20.56	0.114
					12	6	20.49	0.112
					12	13	20.52	0.113
					25	0	20.53	0.113
			18900	1880.0	1	0	21.53	0.142
					1	12	21.41	0.138
					1	24	21.34	0.136
					12	0	20.46	0.111
					12	6	20.43	0.110
					12	13	20.37	0.109
					25	0	20.33	0.108
			19175	1907.5	1	0	21.48	0.141
					1	12	21.41	0.138
					1	24	21.37	0.137
					12	0	20.49	0.112
					12	6	20.48	0.112
					12	13	20.48	0.112
					25	0	20.47	0.111
		16QAM	18625	1852.5	1	0	20.79	0.120
					1	12	20.82	0.121
					1	24	20.71	0.118
					12	0	19.56	0.090
					12	6	19.55	0.090
					12	13	19.50	0.089
					25	0	19.51	0.089
			18900	1880.0	1	0	**20.83**	**0.121**
					1	12	20.65	0.116
					1	24	20.59	0.115
					12	0	19.51	0.089
					12	6	19.47	0.089
					12	13	19.36	0.086
					25	0	19.33	0.086
			19175	1907.5	1	0	20.75	0.119
					1	12	20.56	0.114
					1	24	20.54	0.113
					12	0	19.48	0.089
					12	6	19.46	0.088
					12	11	19.48	0.089
					25	0	19.41	0.087

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz with CA power Pcc: Band 2 Scc: Band 29 (3M)	QPSK	18625	1852.5	1	0	21.55	0.143
					1	12	21.44	0.139
					1	24	21.46	0.140
					12	0	20.62	0.115
					12	6	20.51	0.112
					12	13	20.41	0.110
					25	0	20.54	0.113
			18900	1880.0	1	0	**21.56**	**0.143**
					1	12	21.46	0.140
					1	24	21.36	0.137
					12	0	20.45	0.111
					12	6	20.32	0.108
					12	13	20.34	0.108
					25	0	20.18	0.104
			19175	1907.5	1	0	21.46	0.140
					1	12	21.45	0.140
					1	24	21.42	0.139
					12	0	20.59	0.115
					12	6	20.46	0.111
					12	13	20.62	0.115
					25	0	20.38	0.109
		16QAM	18625	1852.5	1	0	20.81	0.121
					1	12	**20.85**	**0.122**
					1	24	20.74	0.119
					12	0	19.62	0.092
					12	6	19.58	0.091
					12	13	19.58	0.091
					25	0	19.38	0.087
			18900	1880.0	1	0	20.84	0.121
					1	12	20.56	0.114
					1	24	20.58	0.114
					12	0	19.48	0.089
					12	6	19.38	0.087
					12	13	19.45	0.088
					25	0	19.32	0.086
			19175	1907.5	1	0	20.58	0.114
					1	12	20.52	0.113
					1	24	20.51	0.112
					12	0	19.40	0.087
					12	6	19.37	0.086
					12	11	19.53	0.090
					25	0	19.43	0.088

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz with CA power Pcc: Band 2 Scc: Band 29 (5M)	QPSK	18625	1852.5	1	0	21.53	0.142
					1	12	21.55	0.143
					1	24	21.45	0.140
					12	0	20.57	0.114
					12	6	20.56	0.114
					12	13	20.52	0.113
					25	0	20.50	0.112
			18900	1880.0	1	0	21.52	0.142
					1	12	21.45	0.140
					1	24	21.29	0.135
					12	0	20.53	0.113
					12	6	20.49	0.112
					12	13	20.40	0.110
					25	0	20.38	0.109
			19175	1907.5	1	0	**21.59**	**0.144**
					1	12	21.40	0.138
					1	24	21.48	0.141
					12	0	20.57	0.114
					12	6	20.49	0.112
					12	13	20.62	0.115
					25	0	20.38	0.109
		16QAM	18625	1852.5	1	0	**20.79**	**0.120**
					1	12	20.77	0.119
					1	24	20.76	0.119
					12	0	19.47	0.089
					12	6	19.46	0.088
					12	13	19.42	0.087
					25	0	19.50	0.089
			18900	1880.0	1	0	20.77	0.119
					1	12	20.57	0.114
					1	24	20.67	0.117
					12	0	19.38	0.087
					12	6	19.42	0.087
					12	13	19.45	0.088
					25	0	19.41	0.087
			19175	1907.5	1	0	20.58	0.114
					1	12	20.56	0.114
					1	24	20.54	0.113
					12	0	19.48	0.089
					12	6	19.38	0.087
					12	11	19.40	0.087
					25	0	19.44	0.088

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz with CA power Pcc: Band 2 Scc: Band 29 (10M)	QPSK	18625	1852.5	1	0	21.52	0.142
					1	12	21.55	0.143
					1	24	21.42	0.139
					12	0	20.45	0.111
					12	6	20.54	0.113
					12	13	20.47	0.111
					25	0	20.37	0.109
			18900	1880.0	1	0	**21.62**	**0.145**
					1	12	21.47	0.140
					1	24	21.45	0.140
					12	0	20.40	0.110
					12	6	20.35	0.108
					12	13	20.47	0.111
					25	0	20.22	0.105
			19175	1907.5	1	0	21.42	0.139
					1	12	21.39	0.138
					1	24	21.36	0.137
					12	0	20.55	0.114
					12	6	20.49	0.112
					12	13	20.48	0.112
					25	0	20.43	0.110
		16QAM	18625	1852.5	1	0	20.84	0.121
					1	12	20.66	0.116
					1	24	20.71	0.118
					12	0	19.53	0.090
					12	6	19.60	0.091
					12	13	19.48	0.089
					25	0	19.55	0.090
			18900	1880.0	1	0	**20.86**	**0.122**
					1	12	20.67	0.117
					1	24	20.61	0.115
					12	0	19.46	0.088
					12	6	19.32	0.086
					12	13	19.32	0.086
					25	0	19.36	0.086
			19175	1907.5	1	0	20.65	0.116
					1	12	20.45	0.111
					1	24	20.37	0.109
					12	0	19.42	0.087
					12	6	19.46	0.088
					12	11	19.51	0.089
					25	0	19.33	0.086

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz with CA power Pcc: Band 2 Scc: Band 30 (5M)	QPSK	18625	1852.5	1	0	**21.58**	**0.144**
					1	12	21.49	0.141
					1	24	21.56	0.143
					12	0	20.46	0.111
					12	6	20.53	0.113
					12	13	20.42	0.110
					25	0	20.45	0.111
			18900	1880.0	1	0	21.51	0.142
					1	12	21.42	0.139
					1	24	21.31	0.135
					12	0	20.34	0.108
					12	6	20.34	0.108
					12	13	20.46	0.111
					25	0	20.26	0.106
			19175	1907.5	1	0	21.47	0.140
					1	12	21.36	0.137
					1	24	21.40	0.138
					12	0	20.54	0.113
					12	6	20.59	0.115
					12	13	20.52	0.113
					25	0	20.41	0.110
		16QAM	18625	1852.5	1	0	20.77	0.119
					1	12	**20.91**	**0.123**
					1	24	20.66	0.116
					12	0	19.44	0.088
					12	6	19.50	0.089
					12	13	19.53	0.090
					25	0	19.55	0.090
			18900	1880.0	1	0	20.86	0.122
					1	12	20.66	0.116
					1	24	20.59	0.115
					12	0	19.47	0.089
					12	6	19.50	0.089
					12	13	19.53	0.090
					25	0	19.32	0.086
			19175	1907.5	1	0	20.70	0.117
					1	12	20.45	0.111
					1	24	20.47	0.111
					12	0	19.45	0.088
					12	6	19.44	0.088
					12	11	19.48	0.089
					25	0	19.43	0.088

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz with CA power Pcc: Band 2 Scc: Band 30 (10M)	QPSK	18625	1852.5	1	0	**21.56**	**0.143**
					1	12	21.54	0.143
					1	24	21.56	0.143
					12	0	20.47	0.111
					12	6	20.40	0.110
					12	13	20.54	0.113
					25	0	20.41	0.110
			18900	1880.0	1	0	21.55	0.143
					1	12	21.38	0.137
					1	24	21.32	0.136
					12	0	20.41	0.110
					12	6	20.46	0.111
					12	13	20.45	0.111
					25	0	20.39	0.109
			19175	1907.5	1	0	21.55	0.143
					1	12	21.42	0.139
					1	24	21.44	0.139
					12	0	20.49	0.112
					12	6	20.47	0.111
					12	13	20.47	0.111
					25	0	20.50	0.112
		16QAM	18625	1852.5	1	0	20.80	0.120
					1	12	**20.88**	**0.122**
					1	24	20.69	0.117
					12	0	19.53	0.090
					12	6	19.54	0.090
					12	13	19.49	0.089
					25	0	19.59	0.091
			18900	1880.0	1	0	20.73	0.118
					1	12	20.70	0.117
					1	24	20.53	0.113
					12	0	19.39	0.087
					12	6	19.49	0.089
					12	13	19.49	0.089
					25	0	19.35	0.086
			19175	1907.5	1	0	20.76	0.119
					1	12	20.45	0.111
					1	24	20.57	0.114
					12	0	19.47	0.089
					12	6	19.45	0.088
					12	11	19.47	0.089
					25	0	19.29	0.085

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz	QPSK	18650	1855.0	1	0	22.22	0.167
					1	24	22.00	0.158
					1	49	21.98	0.158
					25	0	21.23	0.133
					25	12	21.12	0.129
					25	25	21.11	0.129
					50	0	21.04	0.127
			18900	1880.0	1	0	**22.23**	**0.167**
					1	24	22.00	0.158
					1	49	21.82	0.152
					25	0	21.11	0.129
					25	12	20.99	0.126
					25	25	20.88	0.122
					50	0	20.85	0.122
			19150	1905.0	1	0	21.96	0.157
					1	24	21.80	0.151
					1	49	21.71	0.148
					25	0	20.92	0.124
					25	12	20.83	0.121
					25	25	20.81	0.121
					50	0	20.71	0.118
		16QAM	18650	1855.0	1	0	**21.59**	**0.144**
					1	24	21.32	0.136
					1	49	21.30	0.135
					25	0	20.23	0.105
					25	12	20.14	0.103
					25	25	20.08	0.102
					50	0	20.05	0.101
			18900	1880.0	1	0	21.53	0.142
					1	24	21.28	0.134
					1	49	21.09	0.129
					25	0	20.07	0.102
					25	12	19.99	0.100
					25	25	19.87	0.097
					50	0	19.85	0.097
			19150	1905.0	1	0	21.32	0.136
					1	24	21.08	0.128
					1	49	21.00	0.126
					25	0	19.89	0.097
					25	12	19.76	0.095
					25	25	19.74	0.094
					50	0	19.69	0.093

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz with CA power Pcc: Band 2 Scc: Band 5 (5M)	QPSK	18650	1855.0	1	0	**21.84**	**0.153**
					1	24	21.54	0.143
					1	49	21.53	0.142
					25	0	20.84	0.121
					25	12	20.69	0.117
					25	25	20.69	0.117
					50	0	20.63	0.116
			18900	1880.0	1	0	21.72	0.149
					1	24	21.53	0.142
					1	49	21.32	0.136
					25	0	20.68	0.117
					25	12	20.47	0.111
					25	25	20.35	0.108
					50	0	20.34	0.108
			19150	1905.0	1	0	21.48	0.141
					1	24	21.33	0.136
					1	49	21.22	0.132
					25	0	20.41	0.110
					25	12	20.30	0.107
					25	25	20.26	0.106
					50	0	20.25	0.106
		16QAM	18650	1855.0	1	0	**21.20**	**0.132**
					1	24	20.91	0.123
					1	49	20.84	0.121
					25	0	19.86	0.097
					25	12	19.71	0.094
					25	25	19.63	0.092
					50	0	19.60	0.091
			18900	1880.0	1	0	21.03	0.127
					1	24	20.76	0.119
					1	49	20.57	0.114
					25	0	19.65	0.092
					25	12	19.56	0.090
					25	25	19.39	0.087
					50	0	19.36	0.086
			19150	1905.0	1	0	20.89	0.123
					1	24	20.63	0.116
					1	49	20.51	0.112
					25	0	19.38	0.087
					25	12	19.24	0.084
					25	25	19.21	0.083
					50	0	19.24	0.084

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz with CA power Pcc: Band 2 Scc: Band 5 (10M)	QPSK	18650	1855.0	1	0	**21.81**	**0.152**
					1	24	21.52	0.142
					1	49	21.55	0.143
					25	0	20.86	0.122
					25	12	20.69	0.117
					25	25	20.68	0.117
					50	0	20.62	0.115
			18900	1880.0	1	0	21.76	0.150
					1	24	21.48	0.141
					1	49	21.31	0.135
					25	0	20.65	0.116
					25	12	20.51	0.112
					25	25	20.36	0.109
					50	0	20.35	0.108
			19150	1905.0	1	0	21.48	0.141
					1	24	21.25	0.133
					1	49	21.21	0.132
					25	0	20.45	0.111
					25	12	20.38	0.109
					25	25	20.34	0.108
					50	0	20.22	0.105
		16QAM	18650	1855.0	1	0	**21.22**	**0.132**
					1	24	20.89	0.123
					1	49	20.86	0.122
					25	0	19.80	0.095
					25	12	19.69	0.093
					25	25	19.67	0.093
					50	0	19.57	0.091
			18900	1880.0	1	0	21.05	0.127
					1	24	20.72	0.118
					1	49	20.61	0.115
					25	0	19.59	0.091
					25	12	19.51	0.089
					25	25	19.38	0.087
					50	0	19.37	0.086
			19150	1905.0	1	0	20.88	0.122
					1	24	20.57	0.114
					1	49	20.47	0.111
					25	0	19.43	0.088
					25	12	19.20	0.083
					25	25	19.19	0.083
					50	0	19.23	0.084

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz with CA power Pcc: Band 2 Scc: Band 12 (3M)	QPSK	18650	1855.0	1	0	**21.79**	**0.151**
					1	24	21.58	0.144
					1	49	21.58	0.144
					25	0	20.84	0.121
					25	12	20.74	0.119
					25	25	20.72	0.118
					50	0	20.65	0.116
			18900	1880.0	1	0	21.76	0.150
					1	24	21.51	0.142
					1	49	21.32	0.136
					25	0	20.67	0.117
					25	12	20.51	0.112
					25	25	20.36	0.109
					50	0	20.37	0.109
			19150	1905.0	1	0	21.49	0.141
					1	24	21.25	0.133
					1	49	21.17	0.131
					25	0	20.37	0.109
					25	12	20.35	0.108
					25	25	20.32	0.108
					50	0	20.21	0.105
		16QAM	18650	1855.0	1	0	**21.23**	**0.133**
					1	24	20.87	0.122
					1	49	20.83	0.121
					25	0	19.84	0.096
					25	12	19.68	0.093
					25	25	19.65	0.092
					50	0	19.59	0.091
			18900	1880.0	1	0	21.03	0.127
					1	24	20.74	0.119
					1	49	20.60	0.115
					25	0	19.56	0.090
					25	12	19.49	0.089
					25	25	19.38	0.087
					50	0	19.32	0.086
			19150	1905.0	1	0	20.87	0.122
					1	24	20.62	0.115
					1	49	20.50	0.112
					25	0	19.36	0.086
					25	12	19.28	0.085
					25	25	19.26	0.084
					50	0	19.22	0.084

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz with CA power Pcc: Band 2 Scc: Band 12 (5M)	QPSK	18650	1855.0	1	0	**21.78**	**0.151**
					1	24	21.60	0.145
					1	49	21.59	0.144
					25	0	20.86	0.122
					25	12	20.66	0.116
					25	25	20.65	0.116
					50	0	20.60	0.115
			18900	1880.0	1	0	21.76	0.150
					1	24	21.49	0.141
					1	49	21.34	0.136
					25	0	20.68	0.117
					25	12	20.53	0.113
					25	25	20.40	0.110
					50	0	20.37	0.109
			19150	1905.0	1	0	21.45	0.140
					1	24	21.31	0.135
					1	49	21.17	0.131
					25	0	20.41	0.110
					25	12	20.30	0.107
					25	25	20.29	0.107
					50	0	20.21	0.105
		16QAM	18650	1855.0	1	0	**21.22**	**0.132**
					1	24	20.83	0.121
					1	49	20.84	0.121
					25	0	19.79	0.095
					25	12	19.66	0.092
					25	25	19.63	0.092
					50	0	19.57	0.091
			18900	1880.0	1	0	21.03	0.127
					1	24	20.80	0.120
					1	49	20.63	0.116
					25	0	19.63	0.092
					25	12	19.55	0.090
					25	25	19.42	0.087
					50	0	19.37	0.086
			19150	1905.0	1	0	20.82	0.121
					1	24	20.60	0.115
					1	49	20.48	0.112
					25	0	19.38	0.087
					25	12	19.25	0.084
					25	25	19.23	0.084
					50	0	19.22	0.084

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz with CA power Pcc: Band 2 Scc: Band 12 (10M)	QPSK	18650	1855.0	1	0	**21.82**	**0.152**
					1	24	21.61	0.145
					1	49	21.58	0.144
					25	0	20.79	0.120
					25	12	20.66	0.116
					25	25	20.71	0.118
					50	0	20.64	0.116
			18900	1880.0	1	0	21.78	0.151
					1	24	21.47	0.140
					1	49	21.30	0.135
					25	0	20.67	0.117
					25	12	20.53	0.113
					25	25	20.40	0.110
					50	0	20.37	0.109
			19150	1905.0	1	0	21.50	0.141
					1	24	21.28	0.134
					1	49	21.21	0.132
					25	0	20.43	0.110
					25	12	20.32	0.108
					25	25	20.27	0.106
					50	0	20.22	0.105
		16QAM	18650	1855.0	1	0	**21.24**	**0.133**
					1	24	20.91	0.123
					1	49	20.82	0.121
					25	0	19.84	0.096
					25	12	19.66	0.092
					25	25	19.67	0.093
					50	0	19.62	0.092
			18900	1880.0	1	0	20.98	0.125
					1	24	20.75	0.119
					1	49	20.60	0.115
					25	0	19.56	0.090
					25	12	19.52	0.090
					25	25	19.37	0.086
					50	0	19.42	0.087
			19150	1905.0	1	0	20.87	0.122
					1	24	20.62	0.115
					1	49	20.50	0.112
					25	0	19.38	0.087
					25	12	19.26	0.084
					25	25	19.22	0.084
					50	0	19.24	0.084

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz with CA power Pcc: Band 2 Scc: Band 29 (3M)	QPSK	18650	1855.0	1	0	**21.80**	**0.151**
					1	24	21.64	0.146
					1	49	21.57	0.144
					25	0	20.86	0.122
					25	12	20.65	0.116
					25	25	20.81	0.121
					50	0	20.75	0.119
			18900	1880.0	1	0	21.66	0.147
					1	24	21.56	0.143
					1	49	21.28	0.134
					25	0	20.65	0.116
					25	12	20.48	0.112
					25	25	20.43	0.110
					50	0	20.32	0.108
			19150	1905.0	1	0	21.53	0.142
					1	24	21.31	0.135
					1	49	21.10	0.129
					25	0	20.43	0.110
					25	12	20.42	0.110
					25	25	20.33	0.108
					50	0	20.28	0.107
		16QAM	18650	1855.0	1	0	**21.25**	**0.133**
					1	24	20.97	0.125
					1	49	20.84	0.121
					25	0	19.78	0.095
					25	12	19.63	0.092
					25	25	19.58	0.091
					50	0	19.69	0.093
			18900	1880.0	1	0	20.95	0.124
					1	24	20.73	0.118
					1	49	20.54	0.113
					25	0	19.53	0.090
					25	12	19.51	0.089
					25	25	19.31	0.085
					50	0	19.26	0.084
			19150	1905.0	1	0	20.87	0.122
					1	24	20.60	0.115
					1	49	20.46	0.111
					25	0	19.34	0.086
					25	12	19.34	0.086
					25	25	19.24	0.084
					50	0	19.26	0.084

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz with CA power Pcc: Band 2 Scc: Band 29 (5M)	QPSK	18650	1855.0	1	0	**21.79**	**0.151**
					1	24	21.59	0.144
					1	49	21.63	0.146
					25	0	20.75	0.119
					25	12	20.71	0.118
					25	25	20.79	0.120
					50	0	20.59	0.115
			18900	1880.0	1	0	21.77	0.150
					1	24	21.57	0.144
					1	49	21.26	0.134
					25	0	20.61	0.115
					25	12	20.45	0.111
					25	25	20.27	0.106
					50	0	20.30	0.107
			19150	1905.0	1	0	21.42	0.139
					1	24	21.18	0.131
					1	49	21.21	0.132
					25	0	20.41	0.110
					25	12	20.37	0.109
					25	25	20.33	0.108
					50	0	20.27	0.106
		16QAM	18650	1855.0	1	0	**21.23**	**0.133**
					1	24	20.85	0.122
					1	49	20.85	0.122
					25	0	19.85	0.097
					25	12	19.66	0.092
					25	25	19.57	0.091
					50	0	19.56	0.090
			18900	1880.0	1	0	20.93	0.124
					1	24	20.65	0.116
					1	49	20.57	0.114
					25	0	19.56	0.090
					25	12	19.55	0.090
					25	25	19.46	0.088
					50	0	19.27	0.085
			19150	1905.0	1	0	20.96	0.125
					1	24	20.63	0.116
					1	49	20.49	0.112
					25	0	19.29	0.085
					25	12	19.27	0.085
					25	25	19.26	0.084
					50	0	19.31	0.085

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz with CA power Pcc: Band 2 Scc: Band 29 (10M)	QPSK	18650	1855.0	1	0	**21.76**	**0.150**
					1	24	21.62	0.145
					1	49	21.52	0.142
					25	0	20.91	0.123
					25	12	20.70	0.117
					25	25	20.79	0.120
					50	0	20.61	0.115
			18900	1880.0	1	0	21.68	0.147
					1	24	21.60	0.145
					1	49	21.40	0.138
					25	0	20.71	0.118
					25	12	20.54	0.113
					25	25	20.28	0.107
					50	0	20.29	0.107
			19150	1905.0	1	0	21.57	0.144
					1	24	21.18	0.131
					1	49	21.08	0.128
					25	0	20.36	0.109
					25	12	20.40	0.110
					25	25	20.37	0.109
					50	0	20.31	0.107
		16QAM	18650	1855.0	1	0	**21.18**	**0.131**
					1	24	20.88	0.122
					1	49	20.77	0.119
					25	0	19.81	0.096
					25	12	19.74	0.094
					25	25	19.60	0.091
					50	0	19.61	0.091
			18900	1880.0	1	0	21.01	0.126
					1	24	20.67	0.117
					1	49	20.62	0.115
					25	0	19.58	0.091
					25	12	19.56	0.090
					25	25	19.33	0.086
					50	0	19.41	0.087
			19150	1905.0	1	0	20.79	0.120
					1	24	20.64	0.116
					1	49	20.57	0.114
					25	0	19.41	0.087
					25	12	19.32	0.086
					25	25	19.21	0.083
					50	0	19.27	0.085

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz with CA power Pcc: Band 2 Scc: Band 30 (5M)	QPSK	18650	1855.0	1	0	**21.88**	**0.154**
					1	24	21.60	0.145
					1	49	21.47	0.140
					25	0	20.91	0.123
					25	12	20.74	0.119
					25	25	20.73	0.118
					50	0	20.61	0.115
			18900	1880.0	1	0	21.80	0.151
					1	24	21.48	0.141
					1	49	21.37	0.137
					25	0	20.69	0.117
					25	12	20.53	0.113
					25	25	20.30	0.107
					50	0	20.38	0.109
			19150	1905.0	1	0	21.42	0.139
					1	24	21.27	0.134
					1	49	21.30	0.135
					25	0	20.44	0.111
					25	12	20.33	0.108
					25	25	20.28	0.107
					50	0	20.25	0.106
		16QAM	18650	1855.0	1	0	**21.23**	**0.133**
					1	24	20.89	0.123
					1	49	20.82	0.121
					25	0	19.76	0.095
					25	12	19.67	0.093
					25	25	19.66	0.092
					50	0	19.68	0.093
			18900	1880.0	1	0	21.10	0.129
					1	24	20.69	0.117
					1	49	20.60	0.115
					25	0	19.68	0.093
					25	12	19.65	0.092
					25	25	19.43	0.088
					50	0	19.28	0.085
			19150	1905.0	1	0	20.87	0.122
					1	24	20.55	0.114
					1	49	20.55	0.114
					25	0	19.39	0.087
					25	12	19.20	0.083
					25	25	19.20	0.083
					50	0	19.18	0.083

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz with CA power Pcc: Band 2 Scc: Band 30 (10M)	QPSK	18650	1855.0	1	0	**21.82**	**0.152**
					1	24	21.48	0.141
					1	49	21.59	0.144
					25	0	20.80	0.120
					25	12	20.71	0.118
					25	25	20.65	0.116
					50	0	20.65	0.116
			18900	1880.0	1	0	21.72	0.149
					1	24	21.49	0.141
					1	49	21.38	0.137
					25	0	20.61	0.115
					25	12	20.38	0.109
					25	25	20.34	0.108
					50	0	20.34	0.108
			19150	1905.0	1	0	21.53	0.142
					1	24	21.42	0.139
					1	49	21.28	0.134
					25	0	20.50	0.112
					25	12	20.32	0.108
					25	25	20.26	0.106
					50	0	20.28	0.107
		16QAM	18650	1855.0	1	0	**21.11**	**0.129**
					1	24	20.97	0.125
					1	49	20.85	0.122
					25	0	19.84	0.096
					25	12	19.72	0.094
					25	25	19.71	0.094
					50	0	19.54	0.090
			18900	1880.0	1	0	21.05	0.127
					1	24	20.76	0.119
					1	49	20.54	0.113
					25	0	19.64	0.092
					25	12	19.56	0.090
					25	25	19.47	0.089
					50	0	19.26	0.084
			19150	1905.0	1	0	20.94	0.124
					1	24	20.54	0.113
					1	49	20.57	0.114
					25	0	19.34	0.086
					25	12	19.20	0.083
					25	25	19.17	0.083
					50	0	19.28	0.085

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15 MHz	QPSK	18675	1857.5	1	0	**22.01**	**0.159**
					1	38	21.98	0.158
					1	74	21.66	0.147
					38	0	21.02	0.126
					38	18	21.02	0.126
					38	37	20.98	0.125
					75	0	20.98	0.125
			18900	1880.0	1	0	21.95	0.157
					1	38	21.94	0.156
					1	74	21.50	0.141
					38	0	20.98	0.125
					38	18	20.92	0.124
					38	37	20.92	0.124
					75	0	20.88	0.122
			19125	1902.5	1	0	21.96	0.157
					1	38	21.90	0.155
					1	74	21.54	0.143
					38	0	20.96	0.125
					38	18	20.96	0.125
					38	37	20.91	0.123
					75	0	20.91	0.123
		16QAM	18675	1857.5	1	0	**21.34**	**0.136**
					1	38	21.30	0.135
					1	74	21.25	0.133
					38	0	20.01	0.100
					38	18	20.00	0.100
					38	37	19.99	0.100
					75	0	19.96	0.099
			18900	1880.0	1	0	21.23	0.133
					1	38	21.18	0.131
					1	74	21.06	0.128
					38	0	19.96	0.099
					38	18	19.93	0.098
					38	37	19.92	0.098
					75	0	19.86	0.097
			19125	1902.5	1	0	21.27	0.134
					1	38	21.23	0.133
					1	74	21.18	0.131
					38	0	19.99	0.100
					38	18	19.98	0.100
					38	37	19.90	0.098
					75	0	19.85	0.097

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15 MHz with CA power Pcc: Band 2 Scc: Band 5 (5M)	QPSK	18675	1857.5	1	0	21.53	0.142
					1	38	**21.58**	**0.144**
					1	74	21.26	0.134
					38	0	20.54	0.113
					38	18	20.62	0.115
					38	37	20.59	0.115
					75	0	20.60	0.115
			18900	1880.0	1	0	21.53	0.142
					1	38	21.47	0.140
					1	74	20.96	0.125
					38	0	20.52	0.113
					38	18	20.50	0.112
					38	37	20.43	0.110
					75	0	20.43	0.110
			19125	1902.5	1	0	21.46	0.140
					1	38	21.41	0.138
					1	74	21.14	0.130
					38	0	20.47	0.111
					38	18	20.49	0.112
					38	37	20.43	0.110
					75	0	20.37	0.109
		16QAM	18675	1857.5	1	0	**20.92**	**0.124**
					1	38	20.90	0.123
					1	74	20.78	0.120
					38	0	19.52	0.090
					38	18	19.53	0.090
					38	37	19.55	0.090
					75	0	19.57	0.091
			18900	1880.0	1	0	20.73	0.118
					1	38	20.65	0.116
					1	74	20.57	0.114
					38	0	19.50	0.089
					38	18	19.49	0.089
					38	37	19.44	0.088
					75	0	19.35	0.086
			19125	1902.5	1	0	20.76	0.119
					1	38	20.69	0.117
					1	74	20.67	0.117
					38	0	19.50	0.089
					38	18	19.46	0.088
					38	37	19.42	0.087
					75	0	19.40	0.087

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15 MHz with CA power Pcc: Band 2 Scc: Band 5 (10M)	QPSK	18675	1857.5	1	0	**21.60**	**0.145**
					1	38	21.59	0.144
					1	74	21.27	0.134
					38	0	20.55	0.114
					38	18	20.60	0.115
					38	37	20.51	0.112
					75	0	20.58	0.114
			18900	1880.0	1	0	21.49	0.141
					1	38	21.40	0.138
					1	74	20.96	0.125
					38	0	20.46	0.111
					38	18	20.44	0.111
					38	37	20.50	0.112
					75	0	20.39	0.109
			19125	1902.5	1	0	21.46	0.140
					1	38	21.41	0.138
					1	74	21.14	0.130
					38	0	20.49	0.112
					38	18	20.45	0.111
					38	37	20.45	0.111
					75	0	20.36	0.109
		16QAM	18675	1857.5	1	0	**20.87**	**0.122**
					1	38	20.85	0.122
					1	74	20.85	0.122
					38	0	19.59	0.091
					38	18	19.60	0.091
					38	37	19.57	0.091
					75	0	19.54	0.090
			18900	1880.0	1	0	20.80	0.120
					1	38	20.65	0.116
					1	74	20.55	0.114
					38	0	19.51	0.089
					38	18	19.41	0.087
					38	37	19.38	0.087
					75	0	19.37	0.086
			19125	1902.5	1	0	20.75	0.119
					1	38	20.79	0.120
					1	74	20.66	0.116
					38	0	19.54	0.090
					38	18	19.46	0.088
					38	37	19.40	0.087
					75	0	19.35	0.086

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15 MHz with CA power Pcc: Band 2 Scc: Band 12 (3M)	QPSK	18675	1857.5	1	0	21.53	0.142
					1	38	**21.63**	**0.146**
					1	74	21.19	0.132
					38	0	20.62	0.115
					38	18	20.61	0.115
					38	37	20.58	0.114
					75	0	20.61	0.115
			18900	1880.0	1	0	21.48	0.141
					1	38	21.40	0.138
					1	74	21.00	0.126
					38	0	20.42	0.110
					38	18	20.48	0.112
					38	37	20.49	0.112
					75	0	20.45	0.111
			19125	1902.5	1	0	21.51	0.142
					1	38	21.39	0.138
					1	74	21.13	0.130
					38	0	20.49	0.112
					38	18	20.51	0.112
					38	37	20.47	0.111
					75	0	20.39	0.109
		16QAM	18675	1857.5	1	0	**20.89**	**0.123**
					1	38	20.89	0.123
					1	74	20.82	0.121
					38	0	19.61	0.091
					38	18	19.51	0.089
					38	37	19.58	0.091
					75	0	19.57	0.091
			18900	1880.0	1	0	20.78	0.120
					1	38	20.67	0.117
					1	74	20.61	0.115
					38	0	19.49	0.089
					38	18	19.49	0.089
					38	37	19.39	0.087
					75	0	19.34	0.086
			19125	1902.5	1	0	20.77	0.119
					1	38	20.79	0.120
					1	74	20.72	0.118
					38	0	19.46	0.088
					38	18	19.47	0.089
					38	37	19.41	0.087
					75	0	19.42	0.087

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15 MHz with CA power Pcc: Band 2 Scc: Band 12 (5M)	QPSK	18675	1857.5	1	0	21.55	0.143
					1	38	**21.61**	**0.145**
					1	74	21.23	0.133
					38	0	20.60	0.115
					38	18	20.62	0.115
					38	37	20.55	0.114
					75	0	20.61	0.115
			18900	1880.0	1	0	21.55	0.143
					1	38	21.48	0.141
					1	74	20.97	0.125
					38	0	20.44	0.111
					38	18	20.45	0.111
					38	37	20.48	0.112
					75	0	20.45	0.111
			19125	1902.5	1	0	21.54	0.143
					1	38	21.47	0.140
					1	74	21.07	0.128
					38	0	20.50	0.112
					38	18	20.44	0.111
					38	37	20.46	0.111
					75	0	20.40	0.110
		16QAM	18675	1857.5	1	0	**20.84**	**0.121**
					1	38	20.83	0.121
					1	74	20.82	0.121
					38	0	19.55	0.090
					38	18	19.51	0.089
					38	37	19.51	0.089
					75	0	19.49	0.089
			18900	1880.0	1	0	20.80	0.120
					1	38	20.70	0.117
					1	74	20.57	0.114
					38	0	19.53	0.090
					38	18	19.48	0.089
					38	37	19.48	0.089
					75	0	19.38	0.087
			19125	1902.5	1	0	20.81	0.121
					1	38	20.71	0.118
					1	74	20.67	0.117
					38	0	19.55	0.090
					38	18	19.50	0.089
					38	37	19.45	0.088
					75	0	19.35	0.086

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15 MHz with CA power Pcc: Band 2 Scc: Band 12 (10M)	QPSK	18675	1857.5	1	0	21.54	0.143
					1	38	**21.56**	**0.143**
					1	74	21.26	0.134
					38	0	20.55	0.114
					38	18	20.58	0.114
					38	37	20.56	0.114
					75	0	20.55	0.114
			18900	1880.0	1	0	21.46	0.140
					1	38	21.49	0.141
					1	74	21.03	0.127
					38	0	20.43	0.110
					38	18	20.49	0.112
					38	37	20.44	0.111
					75	0	20.44	0.111
			19125	1902.5	1	0	21.54	0.143
					1	38	21.44	0.139
					1	74	21.06	0.128
					38	0	20.51	0.112
					38	18	20.48	0.112
					38	37	20.39	0.109
					75	0	20.37	0.109
		16QAM	18675	1857.5	1	0	**20.89**	**0.123**
					1	38	20.82	0.121
					1	74	20.76	0.119
					38	0	19.54	0.090
					38	18	19.61	0.091
					38	37	19.56	0.090
					75	0	19.54	0.090
			18900	1880.0	1	0	20.78	0.120
					1	38	20.71	0.118
					1	74	20.58	0.114
					38	0	19.54	0.090
					38	18	19.49	0.089
					38	37	19.43	0.088
					75	0	19.34	0.086
			19125	1902.5	1	0	20.79	0.120
					1	38	20.77	0.119
					1	74	20.66	0.116
					38	0	19.47	0.089
					38	18	19.46	0.088
					38	37	19.43	0.088
					75	0	19.37	0.086

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15 MHz with CA power Pcc: Band 2 Scc: Band 30 (5M)	QPSK	18675	1857.5	1	0	21.44	0.139
					1	38	**21.59**	**0.144**
					1	74	21.33	0.136
					38	0	20.46	0.111
					38	18	20.62	0.115
					38	37	20.51	0.112
					75	0	20.59	0.115
			18900	1880.0	1	0	21.54	0.143
					1	38	21.55	0.143
					1	74	20.99	0.126
					38	0	20.59	0.115
					38	18	20.41	0.110
					38	37	20.41	0.110
					75	0	20.36	0.109
			19125	1902.5	1	0	21.54	0.143
					1	38	21.41	0.138
					1	74	21.23	0.133
					38	0	20.42	0.110
					38	18	20.47	0.111
					38	37	20.49	0.112
					75	0	20.39	0.109
		16QAM	18675	1857.5	1	0	**20.96**	**0.125**
					1	38	20.94	0.124
					1	74	20.78	0.120
					38	0	19.61	0.091
					38	18	19.57	0.091
					38	37	19.47	0.089
					75	0	19.50	0.089
			18900	1880.0	1	0	20.68	0.117
					1	38	20.56	0.114
					1	74	20.51	0.112
					38	0	19.45	0.088
					38	18	19.45	0.088
					38	37	19.35	0.086
					75	0	19.31	0.085
			19125	1902.5	1	0	20.77	0.119
					1	38	20.76	0.119
					1	74	20.58	0.114
					38	0	19.58	0.091
					38	18	19.43	0.088
					38	37	19.46	0.088
					75	0	19.38	0.087

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15 MHz with CA power Pcc: Band 2 Scc: Band 30 (10M)	QPSK	18675	1857.5	1	0	**21.60**	**0.145**
					1	38	21.55	0.143
					1	74	21.25	0.133
					38	0	20.58	0.114
					38	18	20.70	0.117
					38	37	20.55	0.114
					75	0	20.56	0.114
			18900	1880.0	1	0	21.58	0.144
					1	38	21.54	0.143
					1	74	21.04	0.127
					38	0	20.45	0.111
					38	18	20.41	0.110
					38	37	20.34	0.108
					75	0	20.42	0.110
			19125	1902.5	1	0	21.54	0.143
					1	38	21.39	0.138
					1	74	21.15	0.130
					38	0	20.40	0.110
					38	18	20.56	0.114
					38	37	20.39	0.109
					75	0	20.45	0.111
		16QAM	18675	1857.5	1	0	**20.96**	**0.125**
					1	38	20.92	0.124
					1	74	20.82	0.121
					38	0	19.53	0.090
					38	18	19.62	0.092
					38	37	19.51	0.089
					75	0	19.56	0.090
			18900	1880.0	1	0	20.66	0.116
					1	38	20.74	0.119
					1	74	20.50	0.112
					38	0	19.52	0.090
					38	18	19.52	0.090
					38	37	19.34	0.086
					75	0	19.39	0.087
			19125	1902.5	1	0	20.68	0.117
					1	38	20.72	0.118
					1	74	20.77	0.119
					38	0	19.58	0.091
					38	18	19.53	0.090
					38	37	19.52	0.090
					75	0	19.35	0.086

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	20 MHz	QPSK	18700	1860.0	1	0	**22.12**	**0.163**
					1	49	22.04	0.160
					1	99	21.78	0.151
					50	0	21.14	0.130
					50	25	21.13	0.130
					50	50	21.06	0.128
					100	0	20.98	0.125
			18900	1880.0	1	0	22.03	0.160
					1	49	22.02	0.159
					1	99	21.71	0.148
					50	0	21.04	0.127
					50	25	20.97	0.125
					50	50	20.92	0.124
					100	0	20.84	0.121
			19100	1900.0	1	0	21.95	0.157
					1	49	21.88	0.154
					1	99	21.65	0.146
					50	0	20.98	0.125
					50	25	20.87	0.122
					50	50	20.87	0.122
					100	0	20.85	0.122
		16QAM	18700	1860.0	1	0	**21.40**	**0.138**
					1	49	21.39	0.138
					1	99	21.10	0.129
					50	0	20.15	0.104
					50	25	20.06	0.101
					50	50	20.06	0.101
					100	0	19.95	0.099
			18900	1880.0	1	0	21.38	0.137
					1	49	21.27	0.134
					1	99	20.98	0.125
					50	0	19.99	0.100
					50	25	19.93	0.098
					50	50	19.91	0.098
					100	0	19.86	0.097
			19100	1900.0	1	0	21.28	0.134
					1	49	21.19	0.132
					1	99	20.65	0.116
					50	0	19.98	0.100
					50	25	19.88	0.097
					50	50	19.87	0.097
					100	0	19.83	0.096

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	20 MHz with CA power Pcc: Band 2 Scc: Band 5 (5M)	QPSK	18700	1860.0	1	0	21.63	0.146
					1	49	**21.68**	**0.147**
					1	99	21.40	0.138
					50	0	20.77	0.119
					50	25	20.60	0.115
					50	50	20.66	0.116
					100	0	20.54	0.113
			18900	1880.0	1	0	21.56	0.143
					1	49	21.49	0.141
					1	99	21.18	0.131
					50	0	20.48	0.112
					50	25	20.53	0.113
					50	50	20.46	0.111
					100	0	20.33	0.108
			19100	1900.0	1	0	21.44	0.139
					1	49	21.40	0.138
					1	99	21.14	0.130
					50	0	20.49	0.112
					50	25	20.45	0.111
					50	50	20.36	0.109
					100	0	20.32	0.108
		16QAM	18700	1860.0	1	0	**20.95**	**0.124**
					1	49	20.95	0.124
					1	99	20.70	0.117
					50	0	19.67	0.093
					50	25	19.58	0.091
					50	50	19.59	0.091
					100	0	19.55	0.090
			18900	1880.0	1	0	20.90	0.123
					1	49	20.82	0.121
					1	99	20.53	0.113
					50	0	19.50	0.089
					50	25	19.47	0.089
					50	50	19.49	0.089
					100	0	19.38	0.087
			19100	1900.0	1	0	20.82	0.121
					1	49	20.70	0.117
					1	99	20.53	0.113
					50	0	19.54	0.090
					50	25	19.41	0.087
					50	50	19.34	0.086
					100	0	19.29	0.085

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	20 MHz with CA power Pcc: Band 2 Scc: Band 5 (10M)	QPSK	18700	1860.0	1	0	21.62	0.145
					1	49	**21.64**	**0.146**
					1	99	21.31	0.135
					50	0	20.74	0.119
					50	25	20.65	0.116
					50	50	20.68	0.117
					100	0	20.61	0.115
			18900	1880.0	1	0	21.50	0.141
					1	49	21.54	0.143
					1	99	21.19	0.132
					50	0	20.48	0.112
					50	25	20.51	0.112
					50	50	20.40	0.110
					100	0	20.36	0.109
			19100	1900.0	1	0	21.43	0.139
					1	49	21.38	0.137
					1	99	21.14	0.130
					50	0	20.47	0.111
					50	25	20.37	0.109
					50	50	20.41	0.110
					100	0	20.39	0.109
		16QAM	18700	1860.0	1	0	**20.99**	**0.126**
					1	49	20.91	0.123
					1	99	20.67	0.117
					50	0	19.71	0.094
					50	25	19.63	0.092
					50	50	19.62	0.092
					100	0	19.55	0.090
			18900	1880.0	1	0	20.81	0.121
					1	49	20.81	0.121
					1	99	20.54	0.113
					50	0	19.51	0.089
					50	25	19.44	0.088
					50	50	19.42	0.087
					100	0	19.39	0.087
			19100	1900.0	1	0	20.74	0.119
					1	49	20.74	0.119
					1	99	20.54	0.113
					50	0	19.48	0.089
					50	25	19.35	0.086
					50	50	19.42	0.087
					100	0	19.36	0.086

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	20 MHz with CA power Pcc: Band 2 Scc: Band 12 (3M)	QPSK	18700	1860.0	1	0	**21.67**	**0.147**
					1	49	21.64	0.146
					1	99	21.34	0.136
					50	0	20.69	0.117
					50	25	20.65	0.116
					50	50	20.63	0.116
					100	0	20.57	0.114
			18900	1880.0	1	0	21.54	0.143
					1	49	21.49	0.141
					1	99	21.22	0.132
					50	0	20.55	0.114
					50	25	20.52	0.113
					50	50	20.41	0.110
					100	0	20.39	0.109
			19100	1900.0	1	0	21.48	0.141
					1	49	21.37	0.137
					1	99	21.14	0.130
					50	0	20.49	0.112
					50	25	20.40	0.110
					50	50	20.38	0.109
					100	0	20.32	0.108
		16QAM	18700	1860.0	1	0	**20.95**	**0.124**
					1	49	20.89	0.123
					1	99	20.67	0.117
					50	0	19.67	0.093
					50	25	19.61	0.091
					50	50	19.58	0.091
					100	0	19.54	0.090
			18900	1880.0	1	0	20.88	0.122
					1	49	20.81	0.121
					1	99	20.49	0.112
					50	0	19.48	0.089
					50	25	19.47	0.089
					50	50	19.48	0.089
					100	0	19.41	0.087
			19100	1900.0	1	0	20.80	0.120
					1	49	20.73	0.118
					1	99	20.52	0.113
					50	0	19.53	0.090
					50	25	19.44	0.088
					50	50	19.36	0.086
					100	0	19.30	0.085

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	20 MHz with CA power Pcc: Band 2 Scc: Band 12 (5M)	QPSK	18700	1860.0	1	0	21.62	0.145
					1	49	**21.69**	**0.148**
					1	99	21.37	0.137
					50	0	20.68	0.117
					50	25	20.60	0.115
					50	50	20.63	0.116
					100	0	20.60	0.115
			18900	1880.0	1	0	21.59	0.144
					1	49	21.51	0.142
					1	99	21.23	0.133
					50	0	20.46	0.111
					50	25	20.51	0.112
					50	50	20.41	0.110
					100	0	20.38	0.109
			19100	1900.0	1	0	21.52	0.142
					1	49	21.38	0.137
					1	99	21.12	0.129
					50	0	20.54	0.113
					50	25	20.45	0.111
					50	50	20.43	0.110
					100	0	20.38	0.109
		16QAM	18700	1860.0	1	0	20.93	0.124
					1	49	**20.96**	**0.125**
					1	99	20.65	0.116
					50	0	19.67	0.093
					50	25	19.58	0.091
					50	50	19.57	0.091
					100	0	19.51	0.089
			18900	1880.0	1	0	20.89	0.123
					1	49	20.79	0.120
					1	99	20.54	0.113
					50	0	19.45	0.088
					50	25	19.45	0.088
					50	50	19.47	0.089
					100	0	19.37	0.086
			19100	1900.0	1	0	20.81	0.121
					1	49	20.68	0.117
					1	99	20.51	0.112
					50	0	19.47	0.089
					50	25	19.41	0.087
					50	50	19.37	0.086
					100	0	19.33	0.086

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	20 MHz with CA power Pcc: Band 2 Scc: Band 12 (10M)	QPSK	18700	1860.0	1	0	**21.70**	**0.148**
					1	49	21.68	0.147
					1	99	21.38	0.137
					50	0	20.76	0.119
					50	25	20.61	0.115
					50	50	20.62	0.115
					100	0	20.57	0.114
			18900	1880.0	1	0	21.54	0.143
					1	49	21.49	0.141
					1	99	21.25	0.133
					50	0	20.47	0.111
					50	25	20.50	0.112
					50	50	20.45	0.111
					100	0	20.34	0.108
			19100	1900.0	1	0	21.46	0.140
					1	49	21.35	0.136
					1	99	21.12	0.129
					50	0	20.49	0.112
					50	25	20.40	0.110
					50	50	20.39	0.109
					100	0	20.35	0.108
		16QAM	18700	1860.0	1	0	**21.01**	**0.126**
					1	49	20.96	0.125
					1	99	20.63	0.116
					50	0	19.69	0.093
					50	25	19.64	0.092
					50	50	19.62	0.092
					100	0	19.54	0.090
			18900	1880.0	1	0	20.90	0.123
					1	49	20.85	0.122
					1	99	20.53	0.113
					50	0	19.46	0.088
					50	25	19.46	0.088
					50	50	19.44	0.088
					100	0	19.33	0.086
			19100	1900.0	1	0	20.79	0.120
					1	49	20.68	0.117
					1	99	20.53	0.113
					50	0	19.47	0.089
					50	25	19.36	0.086
					50	50	19.41	0.087
					100	0	19.33	0.086

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	20 MHz with CA power Pcc: Band 2 Scc: Band 30 (5M)	QPSK	18700	1860.0	1	0	21.69	0.148
					1	49	**21.77**	**0.150**
					1	99	21.37	0.137
					50	0	20.74	0.119
					50	25	20.56	0.114
					50	50	20.61	0.115
					100	0	20.61	0.115
			18900	1880.0	1	0	21.64	0.146
					1	49	21.54	0.143
					1	99	21.12	0.129
					50	0	20.45	0.111
					50	25	20.44	0.111
					50	50	20.37	0.109
					100	0	20.35	0.108
			19100	1900.0	1	0	21.51	0.142
					1	49	21.39	0.138
					1	99	21.16	0.131
					50	0	20.52	0.113
					50	25	20.41	0.110
					50	50	20.37	0.109
					100	0	20.28	0.107
		16QAM	18700	1860.0	1	0	**20.95**	**0.124**
					1	49	20.94	0.124
					1	99	20.78	0.120
					50	0	19.61	0.091
					50	25	19.65	0.092
					50	50	19.55	0.090
					100	0	19.64	0.092
			18900	1880.0	1	0	20.85	0.122
					1	49	20.77	0.119
					1	99	20.62	0.115
					50	0	19.40	0.087
					50	25	19.52	0.090
					50	50	19.51	0.089
					100	0	19.35	0.086
			19100	1900.0	1	0	20.91	0.123
					1	49	20.79	0.120
					1	99	20.56	0.114
					50	0	19.52	0.090
					50	25	19.35	0.086
					50	50	19.37	0.086
					100	0	19.39	0.087

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	20 MHz with CA power Pcc: Band 2 Scc: Band 30 (10M)	QPSK	18700	1860.0	1	0	21.67	0.147
					1	49	**21.75**	**0.150**
					1	99	21.49	0.141
					50	0	20.67	0.117
					50	25	20.63	0.116
					50	50	20.76	0.119
					100	0	20.62	0.115
			18900	1880.0	1	0	21.58	0.144
					1	49	21.49	0.141
					1	99	21.21	0.132
					50	0	20.52	0.113
					50	25	20.57	0.114
					50	50	20.38	0.109
					100	0	20.25	0.106
			19100	1900.0	1	0	21.40	0.138
					1	49	21.39	0.138
					1	99	21.18	0.131
					50	0	20.56	0.114
					50	25	20.45	0.111
					50	50	20.37	0.109
					100	0	20.42	0.110
		16QAM	18700	1860.0	1	0	20.91	0.123
					1	49	**21.01**	**0.126**
					1	99	20.63	0.116
					50	0	19.66	0.092
					50	25	19.63	0.092
					50	50	19.65	0.092
					100	0	19.59	0.091
			18900	1880.0	1	0	20.92	0.124
					1	49	20.75	0.119
					1	99	20.46	0.111
					50	0	19.49	0.089
					50	25	19.56	0.090
					50	50	19.39	0.087
					100	0	19.35	0.086
			19100	1900.0	1	0	20.89	0.123
					1	49	20.64	0.116
					1	99	20.54	0.113
					50	0	19.47	0.089
					50	25	19.40	0.087
					50	50	19.43	0.088
					100	0	19.36	0.086

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	1.4 MHz	QPSK	19957	1710.7	1	0	22.16	0.164
					1	2	22.09	0.162
					1	5	22.01	0.159
					3	0	21.96	0.157
					3	1	21.87	0.154
					3	3	21.86	0.153
					6	0	20.85	0.122
			20175	1732.5	1	0	22.26	0.168
					1	2	22.11	0.163
					1	5	22.07	0.161
					3	0	22.05	0.160
					3	1	21.99	0.158
					3	3	21.94	0.156
					6	0	20.83	0.121
			20393	1754.3	1	0	**22.31**	**0.170**
					1	2	22.24	0.167
					1	5	22.17	0.165
					3	0	22.15	0.164
					3	1	22.13	0.163
					3	3	22.01	0.159
					6	0	21.01	0.126
		16QAM	19957	1710.7	1	0	21.73	0.149
					1	2	21.64	0.146
					1	5	21.59	0.144
					3	0	21.29	0.135
					3	1	21.27	0.134
					3	3	21.15	0.130
					6	0	20.69	0.117
			20175	1732.5	1	0	21.76	0.150
					1	2	21.69	0.148
					1	5	21.60	0.145
					3	0	21.38	0.137
					3	1	21.31	0.135
					3	3	21.26	0.134
					6	0	20.58	0.114
			20393	1754.3	1	0	**21.78**	**0.151**
					1	2	21.73	0.149
					1	5	21.72	0.149
					3	0	21.46	0.140
					3	1	21.42	0.139
					3	3	21.36	0.137
					6	0	20.68	0.117

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	3 MHz	QPSK	19965	1711.5	1	0	22.08	0.161
					1	8	22.00	0.158
					1	14	21.98	0.158
					8	0	20.97	0.125
					8	4	20.96	0.125
					8	7	20.95	0.124
					15	0	20.87	0.122
			20175	1732.5	1	0	22.10	0.162
					1	8	22.10	0.162
					1	14	21.93	0.156
					8	0	20.99	0.126
					8	4	20.96	0.125
					8	7	20.95	0.124
					15	0	20.95	0.124
			20385	1753.5	1	0	**22.20**	**0.166**
					1	8	22.12	0.163
					1	14	22.04	0.160
					8	0	21.13	0.130
					8	4	21.12	0.129
					8	7	21.09	0.129
					15	0	21.03	0.127
		16QAM	19965	1711.5	1	0	21.30	0.135
					1	8	21.19	0.132
					1	14	21.18	0.131
					8	0	20.03	0.101
					8	4	20.02	0.100
					8	7	19.98	0.100
					15	0	19.93	0.098
			20175	1732.5	1	0	21.31	0.135
					1	8	21.30	0.135
					1	14	21.15	0.130
					8	0	20.07	0.102
					8	4	20.06	0.101
					8	7	20.02	0.100
					15	0	19.96	0.099
			20385	1753.5	1	0	**21.46**	**0.140**
					1	8	21.36	0.137
					1	14	21.30	0.135
					8	0	20.16	0.104
					8	4	20.16	0.104
					8	7	20.07	0.102
					15	0	20.07	0.102

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz	QPSK	19975	1712.5	1	0	22.14	0.164
					1	12	22.04	0.160
					1	24	22.00	0.158
					12	0	21.04	0.127
					12	6	20.97	0.125
					12	13	20.95	0.124
					25	0	20.92	0.124
			20175	1732.5	1	0	22.23	0.167
					1	12	22.11	0.163
					1	24	21.99	0.158
					12	0	21.07	0.128
					12	6	20.97	0.125
					12	13	20.94	0.124
					25	0	20.94	0.124
			20375	1752.5	1	0	**22.25**	**0.168**
					1	12	22.14	0.164
					1	24	22.10	0.162
					12	0	21.11	0.129
					12	6	21.08	0.128
					12	13	21.07	0.128
					25	0	21.07	0.128
		16QAM	19975	1712.5	1	0	21.34	0.136
					1	12	21.27	0.134
					1	24	21.21	0.132
					12	0	20.08	0.102
					12	6	20.01	0.100
					12	13	20.00	0.100
					25	0	19.95	0.099
			20175	1732.5	1	0	21.45	0.140
					1	12	21.31	0.135
					1	24	21.19	0.132
					12	0	20.12	0.103
					12	6	19.99	0.100
					12	13	19.98	0.100
					25	0	19.98	0.100
			20375	1752.5	1	0	**21.53**	**0.142**
					1	12	21.41	0.138
					1	24	21.31	0.135
					12	0	20.12	0.103
					12	6	20.08	0.102
					12	11	20.06	0.101
					25	0	20.05	0.101

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz with CA power Pcc: Band 4 Scc: Band 5 (5M)	QPSK	19975	1712.5	1	0	21.98	0.158
					1	12	21.89	0.155
					1	24	21.90	0.155
					12	0	20.90	0.123
					12	6	20.79	0.120
					12	13	20.78	0.120
					25	0	20.75	0.119
			20175	1732.5	1	0	**22.09**	**0.162**
					1	12	21.98	0.158
					1	24	21.84	0.153
					12	0	20.90	0.123
					12	6	20.84	0.121
					12	13	20.81	0.121
					25	0	20.80	0.120
			20375	1752.5	1	0	22.08	0.161
					1	12	22.00	0.158
					1	24	21.98	0.158
					12	0	21.00	0.126
					12	6	20.99	0.126
					12	13	20.97	0.125
					25	0	20.93	0.124
		16QAM	19975	1712.5	1	0	21.18	0.131
					1	12	21.16	0.131
					1	24	21.03	0.127
					12	0	19.91	0.098
					12	6	19.90	0.098
					12	13	19.91	0.098
					25	0	19.80	0.095
			20175	1732.5	1	0	21.29	0.135
					1	12	21.16	0.131
					1	24	21.03	0.127
					12	0	19.95	0.099
					12	6	19.85	0.097
					12	13	19.81	0.096
					25	0	19.81	0.096
			20375	1752.5	1	0	**21.42**	**0.139**
					1	12	21.26	0.134
					1	24	21.20	0.132
					12	0	19.98	0.100
					12	6	19.92	0.098
					12	11	19.96	0.099
					25	0	19.95	0.099

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz with CA power Pcc: Band 4 Scc: Band 5 (10M)	QPSK	19975	1712.5	1	0	21.97	0.157
					1	12	21.89	0.155
					1	24	21.87	0.154
					12	0	20.91	0.123
					12	6	20.83	0.121
					12	13	20.79	0.120
					25	0	20.79	0.120
			20175	1732.5	1	0	22.05	0.160
					1	12	21.98	0.158
					1	24	21.87	0.154
					12	0	20.92	0.124
					12	6	20.86	0.122
					12	13	20.77	0.119
					25	0	20.82	0.121
			20375	1752.5	1	0	**22.13**	**0.163**
					1	12	22.02	0.159
					1	24	21.95	0.157
					12	0	21.03	0.127
					12	6	20.99	0.126
					12	13	20.92	0.124
					25	0	20.92	0.124
		16QAM	19975	1712.5	1	0	21.26	0.134
					1	12	21.12	0.129
					1	24	21.12	0.129
					12	0	19.95	0.099
					12	6	19.83	0.096
					12	13	19.91	0.098
					25	0	19.80	0.095
			20175	1732.5	1	0	21.28	0.134
					1	12	21.21	0.132
					1	24	21.01	0.126
					12	0	20.02	0.100
					12	6	19.91	0.098
					12	13	19.88	0.097
					25	0	19.83	0.096
			20375	1752.5	1	0	**21.40**	**0.138**
					1	12	21.30	0.135
					1	24	21.17	0.131
					12	0	19.97	0.099
					12	6	19.98	0.100
					12	11	19.91	0.098
					25	0	19.91	0.098

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz with CA power Pcc: Band 4 Scc: Band 12 (5M)	QPSK	19975	1712.5	1	0	21.96	0.157
					1	12	21.94	0.156
					1	24	21.88	0.154
					12	0	20.99	0.126
					12	6	20.83	0.121
					12	13	20.74	0.119
					25	0	20.66	0.116
			20175	1732.5	1	0	**22.18**	**0.165**
					1	12	21.90	0.155
					1	24	21.86	0.153
					12	0	20.99	0.126
					12	6	20.74	0.119
					12	13	20.84	0.121
					25	0	20.79	0.120
			20375	1752.5	1	0	22.09	0.162
					1	12	22.05	0.160
					1	24	21.98	0.158
					12	0	20.95	0.124
					12	6	20.98	0.125
					12	13	21.03	0.127
					25	0	20.87	0.122
		16QAM	19975	1712.5	1	0	21.13	0.130
					1	12	21.11	0.129
					1	24	21.03	0.127
					12	0	19.92	0.098
					12	6	20.00	0.100
					12	13	19.98	0.100
					25	0	19.73	0.094
			20175	1732.5	1	0	21.21	0.132
					1	12	21.12	0.129
					1	24	21.12	0.129
					12	0	19.88	0.097
					12	6	19.78	0.095
					12	13	19.72	0.094
					25	0	19.83	0.096
			20375	1752.5	1	0	**21.38**	**0.137**
					1	12	21.27	0.134
					1	24	21.20	0.132
					12	0	19.90	0.098
					12	6	19.98	0.100
					12	11	19.99	0.100
					25	0	19.88	0.097

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz with CA power Pcc: Band 4 Scc: Band12 (10M)	QPSK	19975	1712.5	1	0	21.98	0.158
					1	12	21.92	0.156
					1	24	21.94	0.156
					12	0	20.89	0.123
					12	6	20.72	0.118
					12	13	20.81	0.121
					25	0	20.77	0.119
			20175	1732.5	1	0	22.02	0.159
					1	12	21.92	0.156
					1	24	21.74	0.149
					12	0	20.99	0.126
					12	6	20.88	0.122
					12	13	20.75	0.119
					25	0	20.76	0.119
			20375	1752.5	1	0	**22.05**	**0.160**
					1	12	22.00	0.158
					1	24	22.02	0.159
					12	0	20.90	0.123
					12	6	20.97	0.125
					12	13	20.88	0.122
					25	0	20.84	0.121
		16QAM	19975	1712.5	1	0	21.27	0.134
					1	12	21.17	0.131
					1	24	21.07	0.128
					12	0	19.84	0.096
					12	6	19.94	0.099
					12	13	19.84	0.096
					25	0	19.82	0.096
			20175	1732.5	1	0	21.37	0.137
					1	12	21.19	0.132
					1	24	21.05	0.127
					12	0	20.02	0.100
					12	6	19.94	0.099
					12	13	19.83	0.096
					25	0	19.77	0.095
			20375	1752.5	1	0	**21.42**	**0.139**
					1	12	21.18	0.131
					1	24	21.16	0.131
					12	0	20.05	0.101
					12	6	19.86	0.097
					12	11	20.05	0.101
					25	0	20.00	0.100

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz with CA power Pcc: Band 4 Scc: Band 29 (3M)	QPSK	19975	1712.5	1	0	21.94	0.156
					1	12	21.90	0.155
					1	24	21.98	0.158
					12	0	20.97	0.125
					12	6	20.87	0.122
					12	13	20.69	0.117
					25	0	20.69	0.117
			20175	1732.5	1	0	**22.08**	**0.161**
					1	12	21.98	0.158
					1	24	21.81	0.152
					12	0	20.82	0.121
					12	6	20.85	0.122
					12	13	20.72	0.118
					25	0	20.73	0.118
			20375	1752.5	1	0	22.03	0.160
					1	12	21.97	0.157
					1	24	21.91	0.155
					12	0	21.00	0.126
					12	6	20.94	0.124
					12	13	20.97	0.125
					25	0	20.95	0.124
		16QAM	19975	1712.5	1	0	21.18	0.131
					1	12	21.16	0.131
					1	24	21.10	0.129
					12	0	19.95	0.099
					12	6	19.84	0.096
					12	13	19.88	0.097
					25	0	19.82	0.096
			20175	1732.5	1	0	21.20	0.132
					1	12	21.22	0.132
					1	24	21.12	0.129
					12	0	19.92	0.098
					12	6	19.81	0.096
					12	13	19.72	0.094
					25	0	19.84	0.096
			20375	1752.5	1	0	**21.40**	**0.138**
					1	12	21.16	0.131
					1	24	21.22	0.132
					12	0	20.02	0.100
					12	6	19.93	0.098
					12	11	20.02	0.100
					25	0	20.02	0.100

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz with CA power Pcc: Band 4 Scc: Band 29 (5M)	QPSK	19975	1712.5	1	0	21.99	0.158
					1	12	21.80	0.151
					1	24	21.96	0.157
					12	0	20.89	0.123
					12	6	20.86	0.122
					12	13	20.71	0.118
					25	0	20.69	0.117
			20175	1732.5	1	0	22.12	0.163
					1	12	21.90	0.155
					1	24	21.82	0.152
					12	0	20.94	0.124
					12	6	20.75	0.119
					12	13	20.80	0.120
					25	0	20.72	0.118
			20375	1752.5	1	0	**22.16**	**0.164**
					1	12	21.97	0.157
					1	24	22.03	0.160
					12	0	21.06	0.128
					12	6	20.94	0.124
					12	13	21.05	0.127
					25	0	20.85	0.122
		16QAM	19975	1712.5	1	0	21.28	0.134
					1	12	21.22	0.132
					1	24	21.02	0.126
					12	0	19.95	0.099
					12	6	19.81	0.096
					12	13	19.92	0.098
					25	0	19.75	0.094
			20175	1732.5	1	0	21.27	0.134
					1	12	21.25	0.133
					1	24	21.10	0.129
					12	0	20.03	0.101
					12	6	19.78	0.095
					12	13	19.91	0.098
					25	0	19.80	0.095
			20375	1752.5	1	0	**21.40**	**0.138**
					1	12	21.23	0.133
					1	24	21.21	0.132
					12	0	19.89	0.097
					12	6	19.82	0.096
					12	11	20.00	0.100
					25	0	20.05	0.101

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz with CA power Pcc: Band 4 Scc: Band 29 (10M)	QPSK	19975	1712.5	1	0	21.96	0.157
					1	12	21.83	0.152
					1	24	21.91	0.155
					12	0	20.81	0.121
					12	6	20.77	0.119
					12	13	20.78	0.120
					25	0	20.67	0.117
			20175	1732.5	1	0	22.00	0.158
					1	12	21.97	0.157
					1	24	21.77	0.150
					12	0	20.92	0.124
					12	6	20.80	0.120
					12	13	20.73	0.118
					25	0	20.77	0.119
			20375	1752.5	1	0	**22.05**	**0.160**
					1	12	22.04	0.160
					1	24	21.97	0.157
					12	0	21.09	0.129
					12	6	21.03	0.127
					12	13	20.98	0.125
					25	0	20.87	0.122
		16QAM	19975	1712.5	1	0	21.14	0.130
					1	12	21.20	0.132
					1	24	21.07	0.128
					12	0	19.84	0.096
					12	6	19.98	0.100
					12	13	20.00	0.100
					25	0	19.70	0.093
			20175	1732.5	1	0	21.34	0.136
					1	12	21.20	0.132
					1	24	21.08	0.128
					12	0	19.91	0.098
					12	6	19.90	0.098
					12	13	19.71	0.094
					25	0	19.88	0.097
			20375	1752.5	1	0	**21.37**	**0.137**
					1	12	21.25	0.133
					1	24	21.20	0.132
					12	0	19.90	0.098
					12	6	19.95	0.099
					12	11	19.93	0.098
					25	0	19.95	0.099

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz with CA power Pcc: Band 4 Scc: Band 30 (5M)	QPSK	19975	1712.5	1	0	21.97	0.157
					1	12	21.92	0.156
					1	24	21.98	0.158
					12	0	20.90	0.123
					12	6	20.77	0.119
					12	13	20.73	0.118
					25	0	20.79	0.120
			20175	1732.5	1	0	22.02	0.159
					1	12	22.04	0.160
					1	24	21.81	0.152
					12	0	20.84	0.121
					12	6	20.83	0.121
					12	13	20.73	0.118
					25	0	20.72	0.118
			20375	1752.5	1	0	**22.08**	**0.161**
					1	12	22.07	0.161
					1	24	22.04	0.160
					12	0	20.92	0.124
					12	6	20.98	0.125
					12	13	21.03	0.127
					25	0	20.93	0.124
		16QAM	19975	1712.5	1	0	21.13	0.130
					1	12	21.26	0.134
					1	24	21.05	0.127
					12	0	19.95	0.099
					12	6	19.97	0.099
					12	13	19.91	0.098
					25	0	19.83	0.096
			20175	1732.5	1	0	21.38	0.137
					1	12	21.17	0.131
					1	24	21.02	0.126
					12	0	19.96	0.099
					12	6	19.82	0.096
					12	13	19.86	0.097
					25	0	19.82	0.096
			20375	1752.5	1	0	**21.40**	**0.138**
					1	12	21.31	0.135
					1	24	21.11	0.129
					12	0	19.94	0.099
					12	6	19.88	0.097
					12	11	19.94	0.099
					25	0	20.00	0.100

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz with CA power Pcc: Band 4 Scc: Band 30 (10M)	QPSK	19975	1712.5	1	0	21.95	0.157
					1	12	21.89	0.155
					1	24	21.92	0.156
					12	0	20.88	0.122
					12	6	20.72	0.118
					12	13	20.85	0.122
					25	0	20.67	0.117
			20175	1732.5	1	0	22.01	0.159
					1	12	21.89	0.155
					1	24	21.93	0.156
					12	0	20.89	0.123
					12	6	20.90	0.123
					12	13	20.75	0.119
					25	0	20.88	0.122
			20375	1752.5	1	0	**22.14**	**0.164**
					1	12	22.00	0.158
					1	24	22.02	0.159
					12	0	20.92	0.124
					12	6	20.91	0.123
					12	13	20.90	0.123
					25	0	20.97	0.125
		16QAM	19975	1712.5	1	0	21.21	0.132
					1	12	21.26	0.134
					1	24	21.00	0.126
					12	0	19.93	0.098
					12	6	19.81	0.096
					12	13	19.81	0.096
					25	0	19.86	0.097
			20175	1732.5	1	0	21.20	0.132
					1	12	21.10	0.129
					1	24	21.10	0.129
					12	0	19.92	0.098
					12	6	19.81	0.096
					12	13	19.87	0.097
					25	0	19.85	0.097
			20375	1752.5	1	0	**21.51**	**0.142**
					1	12	21.35	0.136
					1	24	21.28	0.134
					12	0	19.93	0.098
					12	6	20.00	0.100
					12	11	19.91	0.098
					25	0	19.99	0.100

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz	QPSK	2000	1715.0	1	0	22.16	0.164
					1	24	22.15	0.164
					1	49	21.99	0.158
					25	0	21.08	0.128
					25	12	21.08	0.128
					25	25	21.04	0.127
					50	0	21.03	0.127
			20175	1732.5	1	0	22.18	0.165
					1	24	22.18	0.165
					1	49	22.00	0.158
					25	0	21.10	0.129
					25	12	21.07	0.128
					25	25	21.07	0.128
					50	0	21.01	0.126
			20350	1750.0	1	0	**22.21**	**0.166**
					1	24	22.17	0.165
					1	49	21.88	0.154
					25	0	21.09	0.129
					25	12	21.07	0.128
					25	25	21.02	0.126
					50	0	20.97	0.125
		16QAM	2000	1715.0	1	0	21.46	0.140
					1	24	21.45	0.140
					1	49	21.28	0.134
					25	0	20.05	0.101
					25	12	20.04	0.101
					25	25	20.02	0.100
					50	0	19.98	0.100
			20175	1732.5	1	0	21.45	0.140
					1	24	21.45	0.140
					1	49	21.27	0.134
					25	0	20.07	0.102
					25	12	20.07	0.102
					25	25	20.05	0.101
					50	0	20.02	0.100
			20350	1750.0	1	0	**21.52**	**0.142**
					1	24	21.46	0.140
					1	49	21.17	0.131
					25	0	20.05	0.101
					25	12	20.03	0.101
					25	25	20.00	0.100
					50	0	19.94	0.099

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz with CA power Pcc: Band 4 Scc: Band 5 (5M)	QPSK	2000	1715.0	1	0	**22.09**	**0.162**
					1	24	22.05	0.160
					1	49	21.87	0.154
					25	0	20.92	0.124
					25	12	20.99	0.126
					25	25	20.90	0.123
					50	0	20.87	0.122
			20175	1732.5	1	0	22.06	0.161
					1	24	22.01	0.159
					1	49	21.88	0.154
					25	0	20.93	0.124
					25	12	20.93	0.124
					25	25	20.97	0.125
					50	0	20.87	0.122
			20350	1750.0	1	0	22.05	0.160
					1	24	22.08	0.161
					1	49	21.73	0.149
					25	0	20.99	0.126
					25	12	20.92	0.124
					25	25	20.87	0.122
					50	0	20.80	0.120
		16QAM	2000	1715.0	1	0	21.34	0.136
					1	24	21.37	0.137
					1	49	21.12	0.129
					25	0	19.96	0.099
					25	12	19.96	0.099
					25	25	19.87	0.097
					50	0	19.83	0.096
			20175	1732.5	1	0	21.34	0.136
					1	24	21.29	0.135
					1	49	21.14	0.130
					25	0	19.96	0.099
					25	12	19.96	0.099
					25	25	19.90	0.098
					50	0	19.94	0.099
			20350	1750.0	1	0	**21.44**	**0.139**
					1	24	21.30	0.135
					1	49	21.10	0.129
					25	0	19.95	0.099
					25	12	19.90	0.098
					25	25	19.93	0.098
					50	0	19.82	0.096

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz with CA power Pcc: Band 4 Scc: Band 5 (10M)	QPSK	2000	1715.0	1	0	21.99	0.158
					1	24	22.06	0.161
					1	49	21.83	0.152
					25	0	20.97	0.125
					25	12	20.99	0.126
					25	25	20.91	0.123
					50	0	20.93	0.124
			20175	1732.5	1	0	22.09	0.162
					1	24	22.08	0.161
					1	49	21.89	0.155
					25	0	21.00	0.126
					25	12	20.97	0.125
					25	25	20.97	0.125
					50	0	20.90	0.123
			20350	1750.0	1	0	**22.14**	**0.164**
					1	24	22.08	0.161
					1	49	21.76	0.150
					25	0	20.93	0.124
					25	12	20.99	0.126
					25	25	20.90	0.123
					50	0	20.82	0.121
		16QAM	2000	1715.0	1	0	21.29	0.135
					1	24	21.35	0.136
					1	49	21.14	0.130
					25	0	19.91	0.098
					25	12	19.94	0.099
					25	25	19.95	0.099
					50	0	19.90	0.098
			20175	1732.5	1	0	21.29	0.135
					1	24	**21.37**	**0.137**
					1	49	21.10	0.129
					25	0	19.93	0.098
					25	12	19.95	0.099
					25	25	19.92	0.098
					50	0	19.86	0.097
			20350	1750.0	1	0	21.36	0.137
					1	24	21.34	0.136
					1	49	21.09	0.129
					25	0	19.97	0.099
					25	12	19.88	0.097
					25	25	19.89	0.097
					50	0	19.79	0.095

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz with CA power Pcc: Band 4 Scc: Band 12 (5M)	QPSK	2000	1715.0	1	0	21.99	0.158
					1	24	22.07	0.161
					1	49	21.84	0.153
					25	0	20.83	0.121
					25	12	20.89	0.123
					25	25	20.87	0.122
					50	0	20.84	0.121
			20175	1732.5	1	0	22.12	0.163
					1	24	22.10	0.162
					1	49	21.85	0.153
					25	0	20.89	0.123
					25	12	20.86	0.122
					25	25	21.03	0.127
					50	0	20.90	0.123
			20350	1750.0	1	0	**22.14**	**0.164**
					1	24	22.08	0.161
					1	49	21.63	0.146
					25	0	20.97	0.125
					25	12	20.98	0.125
					25	25	20.95	0.124
					50	0	20.89	0.123
		16QAM	2000	1715.0	1	0	21.25	0.133
					1	24	21.35	0.136
					1	49	21.18	0.131
					25	0	19.93	0.098
					25	12	19.87	0.097
					25	25	19.89	0.097
					50	0	19.83	0.096
			20175	1732.5	1	0	**21.39**	**0.138**
					1	24	21.25	0.133
					1	49	21.07	0.128
					25	0	19.96	0.099
					25	12	19.88	0.097
					25	25	19.97	0.099
					50	0	19.93	0.098
			20350	1750.0	1	0	21.36	0.137
					1	24	21.39	0.138
					1	49	21.18	0.131
					25	0	19.96	0.099
					25	12	19.85	0.097
					25	25	19.92	0.098
					50	0	19.73	0.094

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz with CA power Pcc: Band 4 Scc: Band12 (10M)	QPSK	2000	1715.0	1	0	**22.14**	**0.164**
					1	24	22.11	0.163
					1	49	21.91	0.155
					25	0	20.85	0.122
					25	12	20.91	0.123
					25	25	20.93	0.124
					50	0	20.84	0.121
			20175	1732.5	1	0	22.13	0.163
					1	24	22.10	0.162
					1	49	21.85	0.153
					25	0	20.83	0.121
					25	12	20.85	0.122
					25	25	20.95	0.124
					50	0	20.78	0.120
			20350	1750.0	1	0	22.02	0.159
					1	24	22.08	0.161
					1	49	21.75	0.150
					25	0	20.94	0.124
					25	12	20.87	0.122
					25	25	20.78	0.120
					50	0	20.80	0.120
		16QAM	2000	1715.0	1	0	21.34	0.136
					1	24	21.31	0.135
					1	49	21.07	0.128
					25	0	19.87	0.097
					25	12	19.90	0.098
					25	25	19.81	0.096
					50	0	19.86	0.097
			20175	1732.5	1	0	21.29	0.135
					1	24	21.36	0.137
					1	49	21.24	0.133
					25	0	19.87	0.097
					25	12	19.98	0.100
					25	25	19.96	0.099
					50	0	19.93	0.098
			20350	1750.0	1	0	**21.47**	**0.140**
					1	24	21.25	0.133
					1	49	21.01	0.126
					25	0	19.99	0.100
					25	12	19.94	0.099
					25	25	19.89	0.097
					50	0	19.77	0.095

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz with CA power Pcc: Band 4 Scc: Band 29 (3M)	QPSK	2000	1715.0	1	0	22.02	0.159
					1	24	22.09	0.162
					1	49	21.96	0.157
					25	0	20.93	0.124
					25	12	21.08	0.128
					25	25	20.88	0.122
					50	0	20.92	0.124
			20175	1732.5	1	0	21.98	0.158
					1	24	21.91	0.155
					1	49	21.86	0.153
					25	0	20.87	0.122
					25	12	20.91	0.123
					25	25	21.05	0.127
					50	0	20.84	0.121
			20350	1750.0	1	0	21.95	0.157
					1	24	**22.16**	**0.164**
					1	49	21.72	0.149
					25	0	20.93	0.124
					25	12	20.95	0.124
					25	25	20.88	0.122
					50	0	20.89	0.123
		16QAM	2000	1715.0	1	0	21.37	0.137
					1	24	**21.47**	**0.140**
					1	49	21.16	0.131
					25	0	19.89	0.097
					25	12	19.87	0.097
					25	25	19.85	0.097
					50	0	19.86	0.097
			20175	1732.5	1	0	21.31	0.135
					1	24	21.28	0.134
					1	49	21.05	0.127
					25	0	19.89	0.097
					25	12	20.00	0.100
					25	25	19.86	0.097
					50	0	20.02	0.100
			20350	1750.0	1	0	21.40	0.138
					1	24	21.24	0.133
					1	49	21.12	0.129
					25	0	19.86	0.097
					25	12	19.97	0.099
					25	25	19.98	0.100
					50	0	19.73	0.094

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz with CA power Pcc: Band 4 Scc: Band 29 (5M)	QPSK	2000	1715.0	1	0	22.07	0.161
					1	24	22.08	0.161
					1	49	21.85	0.153
					25	0	21.00	0.126
					25	12	20.98	0.125
					25	25	20.85	0.122
					50	0	20.90	0.123
			20175	1732.5	1	0	22.07	0.161
					1	24	21.98	0.158
					1	49	21.86	0.153
					25	0	20.91	0.123
					25	12	20.91	0.123
					25	25	20.90	0.123
					50	0	20.77	0.119
			20350	1750.0	1	0	22.07	0.161
					1	24	**22.13**	**0.163**
					1	49	21.81	0.152
					25	0	20.98	0.125
					25	12	20.98	0.125
					25	25	20.92	0.124
					50	0	20.83	0.121
		16QAM	2000	1715.0	1	0	21.41	0.138
					1	24	**21.44**	**0.139**
					1	49	21.09	0.129
					25	0	19.96	0.099
					25	12	19.90	0.098
					25	25	19.94	0.099
					50	0	19.80	0.095
			20175	1732.5	1	0	21.28	0.134
					1	24	21.33	0.136
					1	49	21.08	0.128
					25	0	20.02	0.100
					25	12	19.91	0.098
					25	25	19.84	0.096
					50	0	19.86	0.097
			20350	1750.0	1	0	21.43	0.139
					1	24	21.32	0.136
					1	49	21.18	0.131
					25	0	19.90	0.098
					25	12	19.97	0.099
					25	25	19.98	0.100
					50	0	19.73	0.094

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz with CA power Pcc: Band 4 Scc: Band 29 (10M)	QPSK	2000	1715.0	1	0	**22.16**	**0.164**
					1	24	22.11	0.163
					1	49	21.80	0.151
					25	0	20.86	0.122
					25	12	20.95	0.124
					25	25	20.96	0.125
					50	0	20.87	0.122
			20175	1732.5	1	0	22.11	0.163
					1	24	21.96	0.157
					1	49	21.83	0.152
					25	0	20.89	0.123
					25	12	21.02	0.126
					25	25	20.93	0.124
					50	0	20.84	0.121
			20350	1750.0	1	0	22.08	0.161
					1	24	21.98	0.158
					1	49	21.68	0.147
					25	0	21.06	0.128
					25	12	20.91	0.123
					25	25	20.77	0.119
					50	0	20.73	0.118
		16QAM	2000	1715.0	1	0	21.26	0.134
					1	24	21.42	0.139
					1	49	21.09	0.129
					25	0	20.04	0.101
					25	12	19.89	0.097
					25	25	19.96	0.099
					50	0	19.80	0.095
			20175	1732.5	1	0	21.43	0.139
					1	24	21.34	0.136
					1	49	21.05	0.127
					25	0	19.96	0.099
					25	12	19.93	0.098
					25	25	19.93	0.098
					50	0	19.96	0.099
			20350	1750.0	1	0	**21.53**	**0.142**
					1	24	21.25	0.133
					1	49	21.16	0.131
					25	0	19.93	0.098
					25	12	19.98	0.100
					25	25	19.95	0.099
					50	0	19.82	0.096

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz with CA power Pcc: Band 4 Scc: Band 30 (5M)	QPSK	2000	1715.0	1	0	22.13	0.163
					1	24	22.11	0.163
					1	49	21.90	0.155
					25	0	20.91	0.123
					25	12	20.94	0.124
					25	25	20.93	0.124
					50	0	20.89	0.123
			20175	1732.5	1	0	22.11	0.163
					1	24	22.03	0.160
					1	49	21.95	0.157
					25	0	21.01	0.126
					25	12	20.88	0.122
					25	25	20.89	0.123
					50	0	20.78	0.120
			20350	1750.0	1	0	22.10	0.162
					1	24	**22.16**	**0.164**
					1	49	21.69	0.148
					25	0	20.91	0.123
					25	12	21.01	0.126
					25	25	20.85	0.122
					50	0	20.76	0.119
		16QAM	2000	1715.0	1	0	21.27	0.134
					1	24	21.34	0.136
					1	49	21.10	0.129
					25	0	19.91	0.098
					25	12	19.98	0.100
					25	25	19.87	0.097
					50	0	19.77	0.095
			20175	1732.5	1	0	21.29	0.135
					1	24	21.33	0.136
					1	49	21.22	0.132
					25	0	20.04	0.101
					25	12	19.94	0.099
					25	25	19.89	0.097
					50	0	19.85	0.097
			20350	1750.0	1	0	**21.38**	**0.137**
					1	24	21.37	0.137
					1	49	21.15	0.130
					25	0	19.97	0.099
					25	12	19.98	0.100
					25	25	19.91	0.098
					50	0	19.73	0.094

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz with CA power Pcc: Band 4 Scc: Band 30 (10M)	QPSK	2000	1715.0	1	0	22.12	0.163
					1	24	22.13	0.163
					1	49	21.82	0.152
					25	0	20.92	0.124
					25	12	21.08	0.128
					25	25	20.98	0.125
					50	0	20.82	0.121
			20175	1732.5	1	0	22.13	0.163
					1	24	21.95	0.157
					1	49	21.80	0.151
					25	0	20.98	0.125
					25	12	20.90	0.123
					25	25	21.05	0.127
					50	0	20.79	0.120
			20350	1750.0	1	0	21.95	0.157
					1	24	**22.16**	**0.164**
					1	49	21.71	0.148
					25	0	21.01	0.126
					25	12	20.87	0.122
					25	25	20.91	0.123
					50	0	20.82	0.121
		16QAM	2000	1715.0	1	0	21.37	0.137
					1	24	**21.45**	**0.140**
					1	49	21.13	0.130
					25	0	19.90	0.098
					25	12	20.04	0.101
					25	25	19.91	0.098
					50	0	19.79	0.095
			20175	1732.5	1	0	21.25	0.133
					1	24	21.32	0.136
					1	49	21.10	0.129
					25	0	19.96	0.099
					25	12	20.04	0.101
					25	25	19.88	0.097
					50	0	19.87	0.097
			20350	1750.0	1	0	21.38	0.137
					1	24	21.34	0.136
					1	49	21.01	0.126
					25	0	20.03	0.101
					25	12	19.87	0.097
					25	25	20.03	0.101
					50	0	19.84	0.096

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	15 MHz	QPSK	20025	1717.5	1	0	**21.86**	**0.153**
					1	38	21.78	0.151
					1	74	21.69	0.148
					38	0	21.05	0.127
					38	18	20.99	0.126
					38	37	20.97	0.125
					75	0	20.94	0.124
			20175	1732.5	1	0	21.78	0.151
					1	38	21.76	0.150
					1	74	21.68	0.147
					38	0	21.09	0.129
					38	18	20.98	0.125
					38	37	20.95	0.124
					75	0	20.90	0.123
			20325	1747.5	1	0	21.82	0.152
					1	38	21.77	0.150
					1	74	21.76	0.150
					38	0	21.16	0.131
					38	18	21.06	0.128
					38	37	21.05	0.127
					75	0	20.95	0.124
		16QAM	20025	1717.5	1	0	21.36	0.137
					1	38	21.03	0.127
					1	74	20.87	0.122
					38	0	20.00	0.100
					38	18	19.96	0.099
					38	37	19.94	0.099
					75	0	19.93	0.098
			20175	1732.5	1	0	21.30	0.135
					1	38	20.99	0.126
					1	74	20.90	0.123
					38	0	20.08	0.102
					38	18	19.97	0.099
					38	37	19.94	0.099
					75	0	19.94	0.099
			20325	1747.5	1	0	**21.41**	**0.138**
					1	38	21.03	0.127
					1	74	21.01	0.126
					38	0	20.11	0.103
					38	18	20.04	0.101
					38	37	20.00	0.100
					75	0	19.92	0.098

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	15 MHz with CA power Pcc: Band 4 Scc: Band 5 (5M)	QPSK	20025	1717.5	1	0	**21.74**	**0.149**
					1	38	21.65	0.146
					1	74	21.51	0.142
					38	0	20.90	0.123
					38	18	20.81	0.121
					38	37	20.86	0.122
					75	0	20.76	0.119
			20175	1732.5	1	0	21.62	0.145
					1	38	21.64	0.146
					1	74	21.53	0.142
					38	0	20.93	0.124
					38	18	20.82	0.121
					38	37	20.78	0.120
					75	0	20.72	0.118
			20325	1747.5	1	0	21.67	0.147
					1	38	21.60	0.145
					1	74	21.61	0.145
					38	0	21.05	0.127
					38	18	20.96	0.125
					38	37	20.94	0.124
					75	0	20.79	0.120
		16QAM	20025	1717.5	1	0	21.23	0.133
					1	38	20.87	0.122
					1	74	20.70	0.117
					38	0	19.90	0.098
					38	18	19.83	0.096
					38	37	19.83	0.096
					75	0	19.83	0.096
			20175	1732.5	1	0	21.11	0.129
					1	38	20.80	0.120
					1	74	20.80	0.120
					38	0	19.93	0.098
					38	18	19.87	0.097
					38	37	19.80	0.095
					75	0	19.79	0.095
			20325	1747.5	1	0	**21.31**	**0.135**
					1	38	20.91	0.123
					1	74	20.85	0.122
					38	0	19.94	0.099
					38	18	19.89	0.097
					38	37	19.87	0.097
					75	0	19.75	0.094

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	15 MHz with CA power Pcc: Band 4 Scc: Band 5 (10M)	QPSK	20025	1717.5	1	0	**21.72**	**0.149**
					1	38	21.67	0.147
					1	74	21.52	0.142
					38	0	20.91	0.123
					38	18	20.81	0.121
					38	37	20.81	0.121
					75	0	20.79	0.120
			20175	1732.5	1	0	21.67	0.147
					1	38	21.65	0.146
					1	74	21.56	0.143
					38	0	20.99	0.126
					38	18	20.81	0.121
					38	37	20.82	0.121
					75	0	20.73	0.118
			20325	1747.5	1	0	21.71	0.148
					1	38	21.65	0.146
					1	74	21.59	0.144
					38	0	21.06	0.128
					38	18	20.93	0.124
					38	37	20.90	0.123
					75	0	20.82	0.121
		16QAM	20025	1717.5	1	0	21.24	0.133
					1	38	20.87	0.122
					1	74	20.75	0.119
					38	0	19.89	0.097
					38	18	19.78	0.095
					38	37	19.76	0.095
					75	0	19.75	0.094
			20175	1732.5	1	0	21.16	0.131
					1	38	20.83	0.121
					1	74	20.80	0.120
					38	0	19.90	0.098
					38	18	19.86	0.097
					38	37	19.78	0.095
					75	0	19.79	0.095
			20325	1747.5	1	0	**21.24**	**0.133**
					1	38	20.85	0.122
					1	74	20.85	0.122
					38	0	20.01	0.100
					38	18	19.92	0.098
					38	37	19.85	0.097
					75	0	19.83	0.096

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	15 MHz with CA power Pcc: Band 4 Scc: Band 12 (5M)	QPSK	20025	1717.5	1	0	21.68	0.147
					1	38	**21.71**	**0.148**
					1	74	21.44	0.139
					38	0	20.84	0.121
					38	18	20.88	0.122
					38	37	20.93	0.124
					75	0	20.72	0.118
			20175	1732.5	1	0	21.66	0.147
					1	38	21.56	0.143
					1	74	21.52	0.142
					38	0	20.91	0.123
					38	18	20.81	0.121
					38	37	20.72	0.118
					75	0	20.72	0.118
			20325	1747.5	1	0	21.71	0.148
					1	38	21.58	0.144
					1	74	21.62	0.145
					38	0	21.09	0.129
					38	18	20.93	0.124
					38	37	20.89	0.123
					75	0	20.84	0.121
		16QAM	20025	1717.5	1	0	21.31	0.135
					1	38	20.90	0.123
					1	74	20.68	0.117
					38	0	19.94	0.099
					38	18	19.74	0.094
					38	37	19.84	0.096
					75	0	19.90	0.098
			20175	1732.5	1	0	21.16	0.131
					1	38	20.83	0.121
					1	74	20.79	0.120
					38	0	19.84	0.096
					38	18	19.86	0.097
					38	37	19.88	0.097
					75	0	19.69	0.093
			20325	1747.5	1	0	**21.37**	**0.137**
					1	38	20.94	0.124
					1	74	20.92	0.124
					38	0	19.87	0.097
					38	18	19.99	0.100
					38	37	19.84	0.096
					75	0	19.67	0.093

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	15 MHz with CA power Pcc: Band 4 Scc: Band12 (10M)	QPSK	20025	1717.5	1	0	**21.75**	**0.150**
					1	38	21.65	0.146
					1	74	21.55	0.143
					38	0	20.92	0.124
					38	18	20.76	0.119
					38	37	20.91	0.123
					75	0	20.77	0.119
			20175	1732.5	1	0	21.59	0.144
					1	38	21.56	0.143
					1	74	21.53	0.142
					38	0	21.02	0.126
					38	18	20.91	0.123
					38	37	20.77	0.119
					75	0	20.80	0.120
			20325	1747.5	1	0	21.64	0.146
					1	38	21.68	0.147
					1	74	21.67	0.147
					38	0	21.03	0.127
					38	18	20.99	0.126
					38	37	21.03	0.127
					75	0	20.77	0.119
		16QAM	20025	1717.5	1	0	**21.29**	**0.135**
					1	38	20.88	0.122
					1	74	20.66	0.116
					38	0	19.93	0.098
					38	18	19.87	0.097
					38	37	19.86	0.097
					75	0	19.74	0.094
			20175	1732.5	1	0	21.08	0.128
					1	38	20.83	0.121
					1	74	20.73	0.118
					38	0	19.84	0.096
					38	18	19.85	0.097
					38	37	19.78	0.095
					75	0	19.86	0.097
			20325	1747.5	1	0	21.29	0.135
					1	38	20.90	0.123
					1	74	20.94	0.124
					38	0	19.98	0.100
					38	18	19.80	0.095
					38	37	19.93	0.098
					75	0	19.67	0.093

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	15 MHz with CA power Pcc: Band 4 Scc: Band 30 (5M)	QPSK	20025	1717.5	1	0	**21.79**	**0.151**
					1	38	21.55	0.143
					1	74	21.55	0.143
					38	0	20.93	0.124
					38	18	20.89	0.123
					38	37	20.91	0.123
					75	0	20.69	0.117
			20175	1732.5	1	0	21.67	0.147
					1	38	21.59	0.144
					1	74	21.51	0.142
					38	0	20.84	0.121
					38	18	20.78	0.120
					38	37	20.81	0.121
					75	0	20.74	0.119
			20325	1747.5	1	0	21.57	0.144
					1	38	21.61	0.145
					1	74	21.58	0.144
					38	0	21.02	0.126
					38	18	20.90	0.123
					38	37	20.99	0.126
					75	0	20.71	0.118
		16QAM	20025	1717.5	1	0	**21.29**	**0.135**
					1	38	20.85	0.122
					1	74	20.73	0.118
					38	0	19.85	0.097
					38	18	19.91	0.098
					38	37	19.84	0.096
					75	0	19.81	0.096
			20175	1732.5	1	0	21.06	0.128
					1	38	20.89	0.123
					1	74	20.77	0.119
					38	0	19.84	0.096
					38	18	19.78	0.095
					38	37	19.83	0.096
					75	0	19.87	0.097
			20325	1747.5	1	0	21.25	0.133
					1	38	20.89	0.123
					1	74	20.91	0.123
					38	0	20.03	0.101
					38	18	19.95	0.099
					38	37	19.80	0.095
					75	0	19.73	0.094

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	15 MHz with CA power Pcc: Band 4 Scc: Band 30 (10M)	QPSK	20025	1717.5	1	0	21.76	0.150
					1	38	21.74	0.149
					1	74	21.60	0.145
					38	0	20.98	0.125
					38	18	20.83	0.121
					38	37	20.79	0.120
					75	0	20.79	0.120
			20175	1732.5	1	0	21.71	0.148
					1	38	21.56	0.143
					1	74	21.62	0.145
					38	0	20.86	0.122
					38	18	20.90	0.123
					38	37	20.88	0.122
					75	0	20.82	0.121
			20325	1747.5	1	0	**21.77**	**0.150**
					1	38	21.53	0.142
					1	74	21.62	0.145
					38	0	21.10	0.129
					38	18	20.87	0.122
					38	37	20.89	0.123
					75	0	20.75	0.119
		16QAM	20025	1717.5	1	0	21.21	0.132
					1	38	20.83	0.121
					1	74	20.61	0.115
					38	0	19.83	0.096
					38	18	19.93	0.098
					38	37	19.81	0.096
					75	0	19.92	0.098
			20175	1732.5	1	0	21.06	0.128
					1	38	20.89	0.123
					1	74	20.85	0.122
					38	0	19.91	0.098
					38	18	19.96	0.099
					38	37	19.84	0.096
					75	0	19.76	0.095
			20325	1747.5	1	0	**21.37**	**0.137**
					1	38	20.89	0.123
					1	74	20.80	0.120
					38	0	19.85	0.097
					38	18	19.92	0.098
					38	37	19.95	0.099
					75	0	19.82	0.096

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	20 MHz	QPSK	20050	1720.0	1	0	21.98	0.158
					1	49	21.81	0.152
					1	99	21.77	0.150
					50	0	21.07	0.128
					50	25	21.00	0.126
					50	50	20.99	0.126
					100	0	20.94	0.124
			20175	1732.5	1	0	22.05	0.160
					1	49	21.80	0.151
					1	99	21.76	0.150
					50	0	21.45	0.140
					50	25	20.92	0.124
					50	50	20.89	0.123
					100	0	20.87	0.122
			20300	1745.0	1	0	**22.10**	**0.162**
					1	49	21.93	0.156
					1	99	21.92	0.156
					50	0	21.13	0.130
					50	25	21.07	0.128
					50	50	21.04	0.127
					100	0	21.00	0.126
		16QAM	20050	1720.0	1	0	21.28	0.134
					1	49	21.05	0.127
					1	99	21.01	0.126
					50	0	20.04	0.101
					50	25	19.97	0.099
					50	50	19.94	0.099
					100	0	19.92	0.098
			20175	1732.5	1	0	21.32	0.136
					1	49	21.05	0.127
					1	99	21.03	0.127
					50	0	20.05	0.101
					50	25	19.91	0.098
					50	50	19.90	0.098
					100	0	19.87	0.097
			20300	1745.0	1	0	**21.38**	**0.137**
					1	49	21.26	0.134
					1	99	21.18	0.131
					50	0	20.16	0.104
					50	25	20.05	0.101
					50	50	20.03	0.101
					100	0	20.02	0.100

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	20 MHz with CA power Pcc: Band 4 Scc: Band 5 (5M)	QPSK	20050	1720.0	1	0	21.78	0.151
					1	49	21.66	0.147
					1	99	21.58	0.144
					50	0	20.93	0.124
					50	25	20.85	0.122
					50	50	20.79	0.120
					100	0	20.79	0.120
			20175	1732.5	1	0	21.87	0.154
					1	49	21.59	0.144
					1	99	21.62	0.145
					50	0	20.92	0.124
					50	25	20.74	0.119
					50	50	20.74	0.119
					100	0	20.70	0.117
			20300	1745.0	1	0	**21.96**	**0.157**
					1	49	21.75	0.150
					1	99	21.75	0.150
					50	0	20.99	0.126
					50	25	20.91	0.123
					50	50	20.90	0.123
					100	0	20.89	0.123
		16QAM	20050	1720.0	1	0	21.10	0.129
					1	49	20.86	0.122
					1	99	20.89	0.123
					50	0	19.86	0.097
					50	25	19.84	0.096
					50	50	19.74	0.094
					100	0	19.78	0.095
			20175	1732.5	1	0	21.17	0.131
					1	49	20.90	0.123
					1	99	20.86	0.122
					50	0	19.90	0.098
					50	25	19.79	0.095
					50	50	19.76	0.095
					100	0	19.68	0.093
			20300	1745.0	1	0	**21.26**	**0.134**
					1	49	21.12	0.129
					1	99	21.01	0.126
					50	0	20.04	0.101
					50	25	19.86	0.097
					50	50	19.89	0.097
					100	0	19.82	0.096

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	20 MHz with CA power Pcc: Band 4 Scc: Band 5 (10M)	QPSK	20050	1720.0	1	0	21.78	0.151
					1	49	21.66	0.147
					1	99	21.63	0.146
					50	0	20.89	0.123
					50	25	20.83	0.121
					50	50	20.85	0.122
					100	0	20.82	0.121
			20175	1732.5	1	0	21.87	0.154
					1	49	21.61	0.145
					1	99	21.65	0.146
					50	0	20.85	0.122
					50	25	20.81	0.121
					50	50	20.73	0.118
					100	0	20.69	0.117
			20300	1745.0	1	0	**21.89**	**0.155**
					1	49	21.73	0.149
					1	99	21.77	0.150
					50	0	20.97	0.125
					50	25	20.96	0.125
					50	50	20.91	0.123
					100	0	20.80	0.120
		16QAM	20050	1720.0	1	0	21.10	0.129
					1	49	20.88	0.122
					1	99	20.87	0.122
					50	0	19.88	0.097
					50	25	19.80	0.095
					50	50	19.80	0.095
					100	0	19.73	0.094
			20175	1732.5	1	0	21.16	0.131
					1	49	20.86	0.122
					1	99	20.90	0.123
					50	0	19.85	0.097
					50	25	19.80	0.095
					50	50	19.71	0.094
					100	0	19.68	0.093
			20300	1745.0	1	0	**21.25**	**0.133**
					1	49	21.09	0.129
					1	99	20.99	0.126
					50	0	20.04	0.101
					50	25	19.86	0.097
					50	50	19.85	0.097
					100	0	19.84	0.096

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	20 MHz with CA power Pcc: Band 4 Scc: Band 12 (5M)	QPSK	20050	1720.0	1	0	21.72	0.149
					1	49	21.63	0.146
					1	99	21.66	0.147
					50	0	20.98	0.125
					50	25	20.87	0.122
					50	50	20.86	0.122
					100	0	20.71	0.118
			20175	1732.5	1	0	**21.89**	**0.155**
					1	49	21.52	0.142
					1	99	21.58	0.144
					50	0	20.85	0.122
					50	25	20.72	0.118
					50	50	20.79	0.120
					100	0	20.75	0.119
			20300	1745.0	1	0	21.86	0.153
					1	49	21.74	0.149
					1	99	21.75	0.150
					50	0	21.03	0.127
					50	25	20.84	0.121
					50	50	20.88	0.122
					100	0	20.81	0.121
		16QAM	20050	1720.0	1	0	21.11	0.129
					1	49	20.85	0.122
					1	99	20.90	0.123
					50	0	19.90	0.098
					50	25	19.87	0.097
					50	50	19.83	0.096
					100	0	19.88	0.097
			20175	1732.5	1	0	21.15	0.130
					1	49	20.80	0.120
					1	99	20.95	0.124
					50	0	19.89	0.097
					50	25	19.81	0.096
					50	50	19.71	0.094
					100	0	19.76	0.095
			20300	1745.0	1	0	**21.21**	**0.132**
					1	49	21.03	0.127
					1	99	21.00	0.126
					50	0	20.04	0.101
					50	25	19.91	0.098
					50	50	19.88	0.097
					100	0	19.75	0.094

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	20 MHz with CA power Pcc: Band 4 Scc: Band12 (10M)	QPSK	20050	1720.0	1	0	21.83	0.152
					1	49	21.67	0.147
					1	99	21.49	0.141
					50	0	21.02	0.126
					50	25	20.78	0.120
					50	50	20.83	0.121
					100	0	20.72	0.118
			20175	1732.5	1	0	**21.97**	**0.157**
					1	49	21.64	0.146
					1	99	21.58	0.144
					50	0	20.91	0.123
					50	25	20.78	0.120
					50	50	20.67	0.117
					100	0	20.79	0.120
			20300	1745.0	1	0	21.93	0.156
					1	49	21.81	0.152
					1	99	21.66	0.147
					50	0	21.03	0.127
					50	25	20.95	0.124
					50	50	20.96	0.125
					100	0	20.98	0.125
		16QAM	20050	1720.0	1	0	21.13	0.130
					1	49	20.95	0.124
					1	99	20.83	0.121
					50	0	19.92	0.098
					50	25	19.89	0.097
					50	50	19.69	0.093
					100	0	19.79	0.095
			20175	1732.5	1	0	21.13	0.130
					1	49	20.94	0.124
					1	99	20.90	0.123
					50	0	19.97	0.099
					50	25	19.70	0.093
					50	50	19.73	0.094
					100	0	19.69	0.093
			20300	1745.0	1	0	**21.17**	**0.131**
					1	49	21.12	0.129
					1	99	20.92	0.124
					50	0	20.09	0.102
					50	25	19.76	0.095
					50	50	19.87	0.097
					100	0	19.88	0.097

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	20 MHz with CA power Pcc: Band 4 Scc: Band 30 (5M)	QPSK	20050	1720.0	1	0	21.71	0.148
					1	49	21.70	0.148
					1	99	21.51	0.142
					50	0	21.02	0.126
					50	25	20.88	0.122
					50	50	20.73	0.118
					100	0	20.83	0.121
			20175	1732.5	1	0	21.90	0.155
					1	49	21.61	0.145
					1	99	21.67	0.147
					50	0	20.86	0.122
					50	25	20.75	0.119
					50	50	20.70	0.117
					100	0	20.75	0.119
			20300	1745.0	1	0	**21.92**	**0.156**
					1	49	21.73	0.149
					1	99	21.65	0.146
					50	0	21.03	0.127
					50	25	20.82	0.121
					50	50	20.83	0.121
					100	0	20.82	0.121
		16QAM	20050	1720.0	1	0	21.06	0.128
					1	49	20.96	0.125
					1	99	20.83	0.121
					50	0	19.94	0.099
					50	25	19.78	0.095
					50	50	19.65	0.092
					100	0	19.84	0.096
			20175	1732.5	1	0	21.08	0.128
					1	49	20.86	0.122
					1	99	20.81	0.121
					50	0	19.94	0.099
					50	25	19.81	0.096
					50	50	19.82	0.096
					100	0	19.78	0.095
			20300	1745.0	1	0	**21.30**	**0.135**
					1	49	21.16	0.131
					1	99	20.92	0.124
					50	0	20.10	0.102
					50	25	19.81	0.096
					50	50	19.91	0.098
					100	0	19.80	0.095

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	20 MHz with CA power Pcc: Band 4 Scc: Band 30 (10M)	QPSK	20050	1720.0	1	0	21.68	0.147
					1	49	21.57	0.144
					1	99	21.65	0.146
					50	0	20.90	0.123
					50	25	20.92	0.124
					50	50	20.70	0.117
					100	0	20.70	0.117
			20175	1732.5	1	0	21.93	0.156
					1	49	21.67	0.147
					1	99	21.62	0.145
					50	0	20.93	0.124
					50	25	20.77	0.119
					50	50	20.69	0.117
					100	0	20.66	0.116
			20300	1745.0	1	0	**21.95**	**0.157**
					1	49	21.79	0.151
					1	99	21.78	0.151
					50	0	20.95	0.124
					50	25	20.84	0.121
					50	50	20.88	0.122
					100	0	20.87	0.122
		16QAM	20050	1720.0	1	0	21.00	0.126
					1	49	20.94	0.124
					1	99	20.83	0.121
					50	0	19.79	0.095
					50	25	19.91	0.098
					50	50	19.83	0.096
					100	0	19.74	0.094
			20175	1732.5	1	0	21.20	0.132
					1	49	20.89	0.123
					1	99	20.77	0.119
					50	0	19.95	0.099
					50	25	19.79	0.095
					50	50	19.74	0.094
					100	0	19.73	0.094
			20300	1745.0	1	0	**21.35**	**0.136**
					1	49	21.19	0.132
					1	99	21.10	0.129
					50	0	19.96	0.099
					50	25	19.96	0.099
					50	50	19.85	0.097
					100	0	19.91	0.098

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	1.4 MHz	QPSK	20407	824.7	1	0	23.01	0.200
					1	2	23.00	0.200
					1	5	22.98	0.199
					3	0	22.85	0.193
					3	1	22.83	0.192
					3	3	22.75	0.188
					6	0	21.82	0.152
			20525	836.5	1	0	23.35	0.216
					1	2	23.20	0.209
					1	5	23.18	0.208
					3	0	23.13	0.206
					3	1	23.09	0.204
					3	3	23.00	0.200
					6	0	22.11	0.163
			20643	848.3	1	0	**23.60**	**0.229**
					1	2	23.55	0.226
					1	5	23.50	0.224
					3	0	23.48	0.223
					3	1	23.42	0.220
					3	3	23.32	0.215
					6	0	22.47	0.177
		16QAM	20407	824.7	1	0	22.29	0.169
					1	2	22.27	0.169
					1	5	22.26	0.168
					3	0	21.93	0.156
					3	1	21.91	0.155
					3	3	21.91	0.155
					6	0	20.90	0.123
			20525	836.5	1	0	22.56	0.180
					1	2	22.46	0.176
					1	5	22.44	0.175
					3	0	22.21	0.166
					3	1	22.12	0.163
					3	3	22.03	0.160
					6	0	21.17	0.131
			20643	848.3	1	0	**22.92**	**0.196**
					1	2	22.92	0.196
					1	5	22.85	0.193
					3	0	22.65	0.184
					3	1	22.53	0.179
					3	3	22.53	0.179
					6	0	21.57	0.144

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	3 MHz	QPSK	20415	825.5	1	0	22.97	0.198
					1	8	22.92	0.196
					1	14	22.91	0.195
					8	0	21.98	0.158
					8	4	21.96	0.157
					8	7	21.90	0.155
					15	0	21.88	0.154
			20525	836.5	1	0	23.28	0.213
					1	8	23.17	0.207
					1	14	23.13	0.206
					8	0	22.16	0.164
					8	4	22.14	0.164
					8	7	22.11	0.163
					15	0	22.05	0.160
			20635	847.5	1	0	**23.56**	**0.227**
					1	8	23.46	0.222
					1	14	23.46	0.222
					8	0	22.54	0.179
					8	4	22.52	0.179
					8	7	22.49	0.177
					15	0	22.47	0.177
		16QAM	20415	825.5	1	0	22.21	0.166
					1	8	22.15	0.164
					1	14	22.15	0.164
					8	0	21.01	0.126
					8	4	20.99	0.126
					8	7	20.93	0.124
					15	0	20.90	0.123
			20525	836.5	1	0	22.54	0.179
					1	8	22.43	0.175
					1	14	22.33	0.171
					8	0	21.23	0.133
					8	4	21.20	0.132
					8	7	21.10	0.129
					15	0	21.08	0.128
			20635	847.5	1	0	**22.90**	**0.195**
					1	8	22.72	0.187
					1	14	22.72	0.187
					8	0	21.65	0.146
					8	4	21.57	0.144
					8	7	21.53	0.142
					15	0	21.52	0.142

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	5 MHz	QPSK	20425	826.5	1	0	23.00	0.200
					1	12	22.96	0.198
					1	24	22.90	0.195
					12	0	21.95	0.157
					12	6	21.90	0.155
					12	13	21.87	0.154
					25	0	21.87	0.154
			20525	836.5	1	0	23.28	0.213
					1	12	23.20	0.209
					1	24	23.16	0.207
					12	0	22.21	0.166
					12	6	22.20	0.166
					12	13	22.19	0.166
					25	0	22.17	0.165
			20625	846.5	1	0	**23.52**	**0.225**
					1	12	23.52	0.225
					1	24	23.38	0.218
					12	0	22.53	0.179
					12	6	22.49	0.177
					12	13	22.49	0.177
					25	0	22.44	0.175
		16QAM	20425	826.5	1	0	22.27	0.169
					1	12	22.19	0.166
					1	24	22.15	0.164
					12	0	20.96	0.125
					12	6	20.96	0.125
					12	13	20.93	0.124
					25	0	20.91	0.123
			20525	836.5	1	0	22.51	0.178
					1	12	22.46	0.176
					1	24	22.46	0.176
					12	0	21.20	0.132
					12	6	21.19	0.132
					12	13	21.17	0.131
					25	0	21.17	0.131
			20625	846.5	1	0	**22.86**	**0.193**
					1	12	22.71	0.187
					1	24	22.66	0.185
					12	0	21.57	0.144
					12	6	21.55	0.143
					12	11	21.54	0.143
					25	0	21.46	0.140

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	10 MHz	QPSK	20450	829.0	1	0	23.00	0.200
					1	24	22.84	0.192
					1	49	22.81	0.191
					25	0	22.41	0.174
					25	12	22.43	0.175
					25	25	22.41	0.174
					50	0	22.34	0.171
			20525	836.5	1	0	23.17	0.207
					1	24	23.15	0.207
					1	49	22.97	0.198
					25	0	22.70	0.186
					25	12	22.68	0.185
					25	25	22.64	0.184
					50	0	22.49	0.177
			20600	844.0	1	0	**23.44**	**0.221**
					1	24	23.28	0.213
					1	49	23.27	0.212
					25	0	22.96	0.198
					25	12	22.93	0.196
					25	25	22.82	0.191
					50	0	22.77	0.189
		16QAM	20450	829.0	1	0	22.30	0.170
					1	24	22.17	0.165
					1	49	22.12	0.163
					25	0	21.46	0.140
					25	12	21.46	0.140
					25	25	21.45	0.140
					50	0	21.34	0.136
			20525	836.5	1	0	22.47	0.177
					1	24	22.44	0.175
					1	49	22.26	0.168
					25	0	21.65	0.146
					25	12	21.64	0.146
					25	25	21.61	0.145
					50	0	21.47	0.140
			20600	844.0	1	0	**22.80**	**0.191**
					1	24	22.56	0.180
					1	49	22.50	0.178
					25	0	21.96	0.157
					25	12	21.92	0.156
					25	25	21.79	0.151
					50	0	21.74	0.149

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 7	5 MHz	QPSK	20775	2502.5	1	0	**22.10**	**0.162**
					1	12	22.08	0.161
					1	24	22.04	0.160
					12	0	21.09	0.129
					12	6	21.03	0.127
					12	13	21.03	0.127
					25	0	21.00	0.126
			21100	2535.0	1	0	21.91	0.155
					1	12	21.73	0.149
					1	24	21.64	0.146
					12	0	20.68	0.117
					12	6	20.67	0.117
					12	13	20.64	0.116
					25	0	20.62	0.115
			21425	2567.5	1	0	21.56	0.143
					1	12	21.52	0.142
					1	24	21.51	0.142
					12	0	20.56	0.114
					12	6	20.55	0.114
					12	13	20.53	0.113
					25	0	20.52	0.113
		16QAM	20775	2502.5	1	0	**21.33**	**0.136**
					1	12	21.31	0.135
					1	24	21.30	0.135
					12	0	20.12	0.103
					12	6	20.03	0.101
					12	13	20.02	0.100
					25	0	20.00	0.100
			21100	2535.0	1	0	21.14	0.130
					1	12	20.91	0.123
					1	24	20.86	0.122
					12	0	19.71	0.094
					12	6	19.71	0.094
					12	13	19.71	0.094
					25	0	19.64	0.092
			21425	2567.5	1	0	20.71	0.118
					1	12	20.66	0.116
					1	24	20.63	0.116
					12	0	19.55	0.090
					12	6	19.53	0.090
					12	13	19.53	0.090
					25	0	19.51	0.089

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 7	10 MHz	QPSK	20800	2505.0	1	0	**22.34**	**0.171**
					1	24	22.27	0.169
					1	49	21.88	0.154
					25	0	21.14	0.130
					25	12	21.12	0.129
					25	25	21.10	0.129
					50	0	21.09	0.129
			21100	2535.0	1	0	22.06	0.161
					1	24	21.91	0.155
					1	49	21.58	0.144
					25	0	20.93	0.124
					25	12	20.82	0.121
					25	25	20.79	0.120
					50	0	20.68	0.117
			21400	2565.0	1	0	21.76	0.150
					1	24	21.70	0.148
					1	49	21.34	0.136
					25	0	20.60	0.115
					25	12	20.59	0.115
					25	25	20.55	0.114
					50	0	20.44	0.111
		16QAM	20800	2505.0	1	0	**21.54**	**0.143**
					1	24	21.47	0.140
					1	49	21.18	0.131
					25	0	20.13	0.103
					25	12	20.13	0.103
					25	25	20.08	0.102
					50	0	20.08	0.102
			21100	2535.0	1	0	21.37	0.137
					1	24	21.16	0.131
					1	49	20.85	0.122
					25	0	19.90	0.098
					25	12	19.85	0.097
					25	25	19.82	0.096
					50	0	19.73	0.094
			21400	2565.0	1	0	21.04	0.127
					1	24	20.95	0.124
					1	49	20.59	0.115
					25	0	19.58	0.091
					25	12	19.56	0.090
					25	25	19.52	0.090
					50	0	19.45	0.088

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 7	15 MHz	QPSK	20825	2507.5	1	0	**22.17**	**0.165**
					1	38	22.15	0.164
					1	74	21.90	0.155
					36	0	21.25	0.133
					36	18	21.20	0.132
					36	39	21.14	0.130
					75	0	21.12	0.129
			21100	2535.0	1	0	21.78	0.151
					1	38	21.75	0.150
					1	74	21.51	0.142
					36	0	20.85	0.122
					36	18	20.80	0.120
					36	39	20.73	0.118
					75	0	20.73	0.118
			21375	2562.5	1	0	21.48	0.141
					1	38	21.25	0.133
					1	74	21.14	0.130
					36	0	20.47	0.111
					36	18	20.44	0.111
					36	39	20.43	0.110
					75	0	20.37	0.109
		16QAM	20825	2507.5	1	0	**21.45**	**0.140**
					1	38	21.40	0.138
					1	74	21.26	0.134
					36	0	20.25	0.106
					36	18	20.16	0.104
					36	39	20.14	0.103
					75	0	20.11	0.103
			21100	2535.0	1	0	20.98	0.125
					1	38	20.95	0.124
					1	74	20.84	0.121
					36	0	19.83	0.096
					36	18	19.79	0.095
					36	39	19.76	0.095
					75	0	19.74	0.094
			21375	2562.5	1	0	20.75	0.119
					1	38	20.54	0.113
					1	74	20.52	0.113
					36	0	19.46	0.088
					36	18	19.45	0.088
					36	39	19.44	0.088
					75	0	19.34	0.086

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 7	20 MHz	QPSK	20850	2510.0	1	0	**22.43**	**0.175**
					1	49	22.30	0.170
					1	99	22.05	0.160
					50	0	21.33	0.136
					50	25	21.29	0.135
					50	50	21.26	0.134
					100	0	21.24	0.133
			21100	2535.0	1	0	22.39	0.173
					1	49	21.92	0.156
					1	99	21.74	0.149
					50	0	20.92	0.124
					50	25	20.89	0.123
					50	50	20.88	0.122
					100	0	20.86	0.122
			21350	2560.0	1	0	21.98	0.158
					1	49	21.57	0.144
					1	99	21.42	0.139
					50	0	20.65	0.116
					50	25	20.60	0.115
					50	50	20.55	0.114
					100	0	20.47	0.111
		16QAM	20850	2510.0	1	0	**21.73**	**0.149**
					1	49	21.60	0.145
					1	99	21.32	0.136
					50	0	20.32	0.108
					50	25	20.31	0.107
					50	50	20.30	0.107
					100	0	20.26	0.106
			21100	2535.0	1	0	21.24	0.133
					1	49	21.22	0.132
					1	99	21.02	0.126
					50	0	19.94	0.099
					50	25	19.93	0.098
					50	50	19.90	0.098
					100	0	19.88	0.097
			21350	2560.0	1	0	20.96	0.125
					1	49	20.81	0.121
					1	99	20.70	0.117
					50	0	19.64	0.092
					50	25	19.59	0.091
					50	50	19.58	0.091
					100	0	19.48	0.089

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	1.4 MHz	QPSK	23017	699.7	1	0	24.01	0.252
					1	3	23.92	0.247
					1	5	23.86	0.243
					3	0	23.86	0.243
					3	2	23.84	0.242
					3	3	23.65	0.232
					6	0	22.77	0.189
			23095	707.5	1	0	24.27	0.267
					1	3	24.08	0.256
					1	5	24.07	0.255
					3	0	24.04	0.254
					3	2	23.91	0.246
					3	3	23.54	0.226
					6	0	22.99	0.199
			23173	715.3	1	0	**24.29**	**0.269**
					1	3	24.19	0.262
					1	5	24.07	0.255
					3	0	24.06	0.255
					3	2	23.88	0.244
					3	3	23.76	0.238
					6	0	22.93	0.196
		16QAM	23017	699.7	1	0	23.49	0.223
					1	3	23.40	0.219
					1	5	23.37	0.217
					3	0	23.06	0.202
					3	2	22.83	0.192
					3	3	22.58	0.181
					6	0	21.94	0.156
			23095	707.5	1	0	23.69	0.234
					1	3	23.67	0.233
					1	5	23.56	0.227
					3	0	23.38	0.218
					3	2	23.12	0.205
					3	3	22.86	0.193
					6	0	22.26	0.168
			23173	715.3	1	0	**23.71**	**0.235**
					1	3	23.60	0.229
					1	5	23.59	0.229
					3	0	23.23	0.210
					3	2	23.03	0.201
					3	3	22.77	0.189
					6	0	22.07	0.161

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	3 MHz	QPSK	23025	700.5	1	0	24.16	0.261
					1	8	24.01	0.252
					1	14	23.93	0.247
					8	0	22.98	0.199
					8	4	22.97	0.198
					8	8	22.96	0.198
					15	0	22.96	0.198
			23095	707.5	1	0	24.27	0.267
					1	8	24.11	0.258
					1	14	24.09	0.256
					8	0	23.18	0.208
					8	4	23.06	0.202
					8	8	23.06	0.202
					15	0	23.03	0.201
			23165	714.5	1	0	**24.36**	**0.273**
					1	8	24.06	0.255
					1	14	24.03	0.253
					8	0	23.09	0.204
					8	4	23.05	0.202
					8	8	23.04	0.201
					15	0	23.03	0.201
		16QAM	23025	700.5	1	0	23.43	0.220
					1	8	23.36	0.217
					1	14	23.26	0.212
					8	0	22.04	0.160
					8	4	21.98	0.158
					8	8	21.96	0.157
					15	0	21.95	0.157
			23095	707.5	1	0	**23.68**	**0.233**
					1	8	23.63	0.231
					1	14	23.60	0.229
					8	0	22.31	0.170
					8	4	22.23	0.167
					8	8	22.21	0.166
					15	0	22.19	0.166
			23165	714.5	1	0	23.57	0.228
					1	8	23.53	0.225
					1	14	23.51	0.224
					8	0	22.14	0.164
					8	4	22.12	0.163
					8	8	22.11	0.163
					15	0	22.10	0.162

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	5 MHz	QPSK	23035	701.5	1	0	24.07	0.255
					1	13	24.00	0.251
					1	24	23.98	0.250
					12	0	23.01	0.200
					12	6	23.01	0.200
					12	13	22.99	0.199
					25	0	22.92	0.196
			23095	707.5	1	0	24.19	0.262
					1	13	24.13	0.259
					1	24	24.05	0.254
					12	0	23.27	0.212
					12	6	23.22	0.210
					12	13	23.09	0.204
					25	0	23.05	0.202
			23155	713.5	1	0	**24.31**	**0.270**
					1	13	24.29	0.269
					1	24	24.26	0.267
					12	0	23.20	0.209
					12	6	23.20	0.209
					12	13	23.16	0.207
					25	0	23.08	0.203
		16QAM	23035	701.5	1	0	23.60	0.229
					1	13	23.33	0.215
					1	24	23.25	0.211
					12	0	22.15	0.164
					12	6	22.15	0.164
					12	13	22.04	0.160
					25	0	22.04	0.160
			23095	707.5	1	0	23.66	0.232
					1	13	23.53	0.225
					1	24	23.48	0.223
					12	0	22.34	0.171
					12	6	22.32	0.171
					12	13	22.17	0.165
					25	0	22.17	0.165
			23155	713.5	1	0	**23.89**	**0.245**
					1	13	23.62	0.230
					1	24	23.51	0.224
					12	0	22.35	0.172
					12	6	22.29	0.169
					12	13	22.27	0.169
					25	0	22.25	0.168

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	5 MHz with CA power Pcc: Band 12 Scc: Band 30 (5M)	QPSK	23035	701.5	1	0	23.93	0.247
					1	13	23.97	0.249
					1	24	23.83	0.242
					12	0	23.00	0.200
					12	6	22.94	0.197
					12	13	22.92	0.196
					25	0	22.80	0.191
			23095	707.5	1	0	24.06	0.255
					1	13	23.99	0.251
					1	24	24.04	0.254
					12	0	23.22	0.210
					12	6	23.23	0.210
					12	13	23.04	0.201
					25	0	22.97	0.198
			23155	713.5	1	0	24.18	0.262
					1	13	**24.22**	**0.264**
					1	24	24.15	0.260
					12	0	23.02	0.200
					12	6	23.19	0.208
					12	13	23.00	0.200
					25	0	22.94	0.197
		16QAM	23035	701.5	1	0	23.49	0.223
					1	13	23.15	0.207
					1	24	23.14	0.206
					12	0	21.98	0.158
					12	6	21.98	0.158
					12	13	22.00	0.158
					25	0	21.93	0.156
			23095	707.5	1	0	23.63	0.231
					1	13	23.42	0.220
					1	24	23.39	0.218
					12	0	22.31	0.170
					12	6	22.21	0.166
					12	13	22.09	0.162
					25	0	22.05	0.160
			23155	713.5	1	0	**23.85**	**0.243**
					1	13	23.48	0.223
					1	24	23.34	0.216
					12	0	22.36	0.172
					12	6	22.19	0.166
					12	13	22.18	0.165
					25	0	22.14	0.164

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	5 MHz with CA power Pcc: Band 12 Scc: Band 30 (10M)	QPSK	23035	701.5	1	0	23.94	0.248
					1	13	23.85	0.243
					1	24	23.92	0.247
					12	0	23.03	0.201
					12	6	22.96	0.198
					12	13	22.95	0.197
					25	0	22.93	0.196
			23095	707.5	1	0	24.07	0.255
					1	13	23.97	0.249
					1	24	23.98	0.250
					12	0	23.19	0.208
					12	6	23.12	0.205
					12	13	23.10	0.204
					25	0	22.97	0.198
			23155	713.5	1	0	24.25	0.266
					1	13	**24.27**	**0.267**
					1	24	24.19	0.262
					12	0	23.09	0.204
					12	6	23.14	0.206
					12	13	23.18	0.208
					25	0	22.98	0.199
		16QAM	23035	701.5	1	0	23.57	0.228
					1	13	23.20	0.209
					1	24	23.18	0.208
					12	0	22.07	0.161
					12	6	22.00	0.158
					12	13	21.86	0.153
					25	0	21.89	0.155
			23095	707.5	1	0	23.49	0.223
					1	13	23.35	0.216
					1	24	23.37	0.217
					12	0	22.18	0.165
					12	6	22.21	0.166
					12	13	22.01	0.159
					25	0	22.16	0.164
			23155	713.5	1	0	**23.76**	**0.238**
					1	13	23.52	0.225
					1	24	23.47	0.222
					12	0	22.30	0.170
					12	6	22.25	0.168
					12	13	22.26	0.168
					25	0	22.12	0.163

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	10 MHz	QPSK	23060	704.0	1	0	24.29	0.269
					1	25	24.04	0.254
					1	49	23.92	0.247
					25	0	23.26	0.212
					25	13	23.12	0.205
					25	25	23.08	0.203
					50	0	23.07	0.203
			23095	707.5	1	0	**24.37**	**0.274**
					1	25	24.09	0.256
					1	49	23.98	0.250
					25	0	23.47	0.222
					25	13	23.32	0.215
					25	25	23.32	0.215
					50	0	23.15	0.207
			23130	711.0	1	0	24.28	0.268
					1	25	24.16	0.261
					1	49	24.11	0.258
					25	0	23.39	0.218
					25	13	23.35	0.216
					25	25	23.28	0.213
					50	0	23.26	0.212
		16QAM	23060	704.0	1	0	23.87	0.244
					1	25	23.46	0.222
					1	49	23.41	0.219
					25	0	22.31	0.170
					25	13	22.24	0.167
					25	25	22.09	0.162
					50	0	22.05	0.160
			23095	707.5	1	0	23.89	0.245
					1	25	23.62	0.230
					1	49	23.48	0.223
					25	0	22.44	0.175
					25	13	22.37	0.173
					25	25	22.32	0.171
					50	0	22.10	0.162
			23130	711.0	1	0	**23.91**	**0.246**
					1	25	23.60	0.229
					1	49	23.55	0.226
					25	0	22.39	0.173
					25	13	22.36	0.172
					25	25	22.28	0.169
					50	0	22.25	0.168

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	10 MHz with CA power Pcc: Band 12 Scc: Band 30 (5M)	QPSK	23035	701.5	1	0	24.16	0.261
					1	13	24.05	0.254
					1	24	23.86	0.243
					12	0	23.10	0.204
					12	6	23.00	0.200
					12	13	22.93	0.196
					25	0	22.99	0.199
			23095	707.5	1	0	24.21	0.264
					1	13	23.96	0.249
					1	24	23.83	0.242
					12	0	23.45	0.221
					12	6	23.16	0.207
					12	13	23.31	0.214
					25	0	23.06	0.202
			23155	713.5	1	0	**24.26**	**0.267**
					1	13	24.13	0.259
					1	24	24.00	0.251
					12	0	23.24	0.211
					12	6	23.18	0.208
					12	13	23.20	0.209
					25	0	23.23	0.210
		16QAM	23035	701.5	1	0	23.76	0.238
					1	13	23.46	0.222
					1	24	23.31	0.214
					12	0	22.16	0.164
					12	6	22.21	0.166
					12	13	22.10	0.162
					25	0	22.07	0.161
			23095	707.5	1	0	**23.89**	**0.245**
					1	13	23.61	0.230
					1	24	23.40	0.219
					12	0	22.45	0.176
					12	6	22.23	0.167
					12	13	22.17	0.165
					25	0	21.92	0.156
			23155	713.5	1	0	23.80	0.240
					1	13	23.57	0.228
					1	24	23.44	0.221
					12	0	22.30	0.170
					12	6	22.20	0.166
					12	13	22.28	0.169
					25	0	22.18	0.165

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	10 MHz with CA power Pcc: Band 12 Scc: Band 30 (10M)	QPSK	23035	701.5	1	0	24.11	0.258
					1	13	23.88	0.244
					1	24	23.86	0.243
					12	0	23.13	0.206
					12	6	23.13	0.206
					12	13	23.00	0.200
					25	0	23.09	0.204
			23095	707.5	1	0	**24.36**	**0.273**
					1	13	24.10	0.257
					1	24	23.86	0.243
					12	0	23.35	0.216
					12	6	23.27	0.212
					12	13	23.15	0.207
					25	0	23.03	0.201
			23155	713.5	1	0	24.25	0.266
					1	13	24.09	0.256
					1	24	23.99	0.251
					12	0	23.34	0.216
					12	6	23.23	0.210
					12	13	23.11	0.205
					25	0	23.27	0.212
		16QAM	23035	701.5	1	0	23.79	0.239
					1	13	23.31	0.214
					1	24	23.43	0.220
					12	0	22.17	0.165
					12	6	22.08	0.161
					12	13	22.03	0.160
					25	0	21.94	0.156
			23095	707.5	1	0	**23.82**	**0.241**
					1	13	23.61	0.230
					1	24	23.35	0.216
					12	0	22.26	0.168
					12	6	22.35	0.172
					12	13	22.22	0.167
					25	0	22.01	0.159
			23155	713.5	1	0	23.77	0.238
					1	13	23.53	0.225
					1	24	23.38	0.218
					12	0	22.35	0.172
					12	6	22.23	0.167
					12	13	22.26	0.168
					25	0	22.12	0.163

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 30	5 MHz	QPSK	27685	2307.5	1	0	23.66	0.232
					1	12	23.63	0.231
					1	24	23.58	0.228
					12	0	22.59	0.182
					12	6	22.59	0.182
					12	13	22.58	0.181
					25	0	22.57	0.181
			27710	2310.0	1	0	**23.81**	**0.240**
					1	12	23.70	0.234
					1	24	23.56	0.227
					12	0	22.68	0.185
					12	6	22.64	0.184
					12	13	22.63	0.183
					25	0	22.58	0.181
			27735	2312.5	1	0	23.79	0.239
					1	12	23.68	0.233
					1	24	23.65	0.232
					12	0	22.72	0.187
					12	6	22.66	0.185
					12	13	22.65	0.184
					25	0	22.59	0.182
		16QAM	27685	2307.5	1	0	23.04	0.201
					1	12	22.97	0.198
					1	24	22.55	0.180
					12	0	21.66	0.147
					12	6	21.64	0.146
					12	13	21.64	0.146
					25	0	21.57	0.144
			27710	2310.0	1	0	22.87	0.194
					1	12	22.86	0.193
					1	24	22.82	0.191
					12	0	21.74	0.149
					12	6	21.71	0.148
					12	13	21.68	0.147
					25	0	21.62	0.145
			27735	2312.5	1	0	23.15	0.207
					1	12	22.99	0.199
					1	24	22.92	0.196
					12	0	21.84	0.153
					12	6	21.78	0.151
					12	11	21.75	0.150
					25	0	21.61	0.145

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 30	10 MHz	QPSK	27710	2310.0	1	0	**23.90**	**0.245**
					1	24	23.62	0.230
					1	49	23.57	0.228
					25	0	22.80	0.191
					25	12	22.77	0.189
					25	25	22.68	0.185
					50	0	22.56	0.180
		16QAM	27710	2310.0	1	0	23.31	0.214
					1	24	23.03	0.201
					1	49	22.82	0.191
					25	0	21.86	0.153
					25	12	21.79	0.151
					25	25	21.75	0.150
					50	0	21.52	0.142

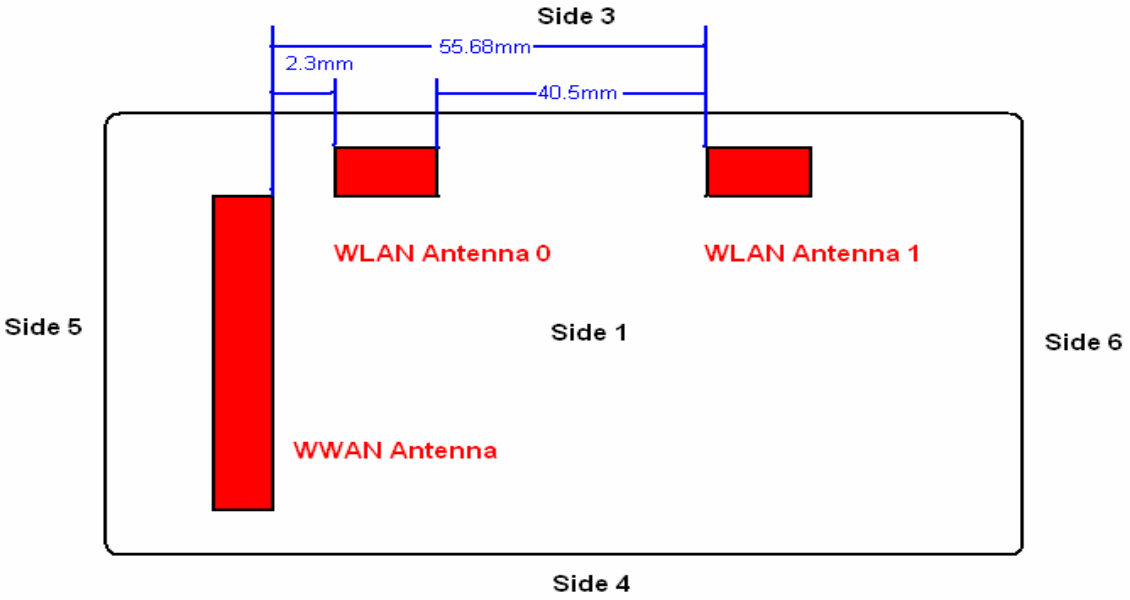
Band	Data Rate	CH	Frequency (MHz)	Average Power (dBm)		
				ANT-0	ANT-1	ANT-0+1
IEEE 802.11b	1M	1	2412.0	8.58	8.54	---
		6	2437.0	8.72	8.66	---
		11	2462.0	8.33	8.49	---
	2M	6	2437.0	8.71	8.64	---
	5.5M	6	2437.0	8.69	8.63	---
	11M	6	2437.0	8.68	8.61	---
IEEE 802.11g	6M	1	2412.0	8.56	8.29	11.44
		6	2437.0	8.41	8.39	11.41
		11	2462.0	8.11	8.23	11.18
	9M	6	2437.0	8.40	8.37	11.40
	12M	6	2437.0	8.38	8.35	11.38
	18M	6	2437.0	8.36	8.34	11.36
	24M	6	2437.0	8.35	8.33	11.35
	36M	6	2437.0	8.32	8.31	11.33
	48M	6	2437.0	8.31	8.29	11.31
	54M	6	2437.0	8.29	8.28	11.30
IEEE 802.11n 2.4GHz 20MHz	13M	1	2412.0	8.08	8.01	11.06
		6	2437.0	8.43	8.36	11.41
		11	2462.0	8.03	8.16	11.11
	26M	6	2437.0	8.42	8.35	11.40
	39M	6	2437.0	8.41	8.34	11.39
	52M	6	2437.0	8.39	8.33	11.37
	78M	6	2437.0	8.38	8.31	11.36
	104M	6	2437.0	8.36	8.29	11.34
	117M	6	2437.0	8.34	8.28	11.32
	130M	6	2437.0	8.33	8.26	11.31
IEEE 802.11n 2.4GHz 40MHz	27M	3	2422.0	8.27	8.14	11.22
		6	2437.0	8.48	8.33	11.42
		9	2452.0	8.34	8.00	11.18
	54M	6	2437.0	8.43	8.30	11.38
	81M	6	2437.0	8.40	8.26	11.34
	108M	6	2437.0	8.34	8.21	11.29
	162M	6	2437.0	8.29	8.17	11.24
	216M	6	2437.0	8.25	8.11	11.19
	243M	6	2437.0	8.19	8.07	11.14
	270M	6	2437.0	8.14	8.03	11.10

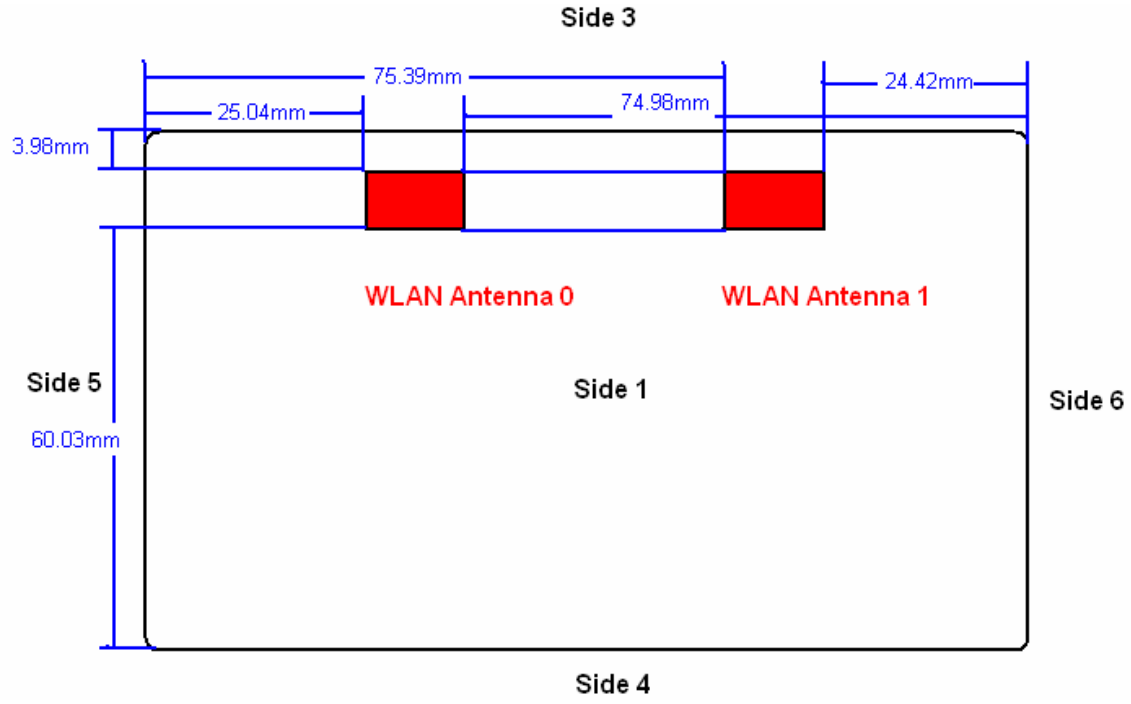
Band	Data Rate	CH	Frequency (MHz)	Average Power (dBm)		
				ANT-0	ANT-1	ANT-0+1
IEEE 802.11a	6M	36	5180.0	9.79	9.39	12.60
		40	5200.0	9.68	9.26	12.49
		44	5220.0	9.58	9.32	12.46
		48	5240.0	9.63	9.16	12.41
		149	5745.0	9.23	8.93	12.09
		153	5765.0	9.25	9.00	12.14
		157	5785.0	9.29	9.07	12.19
		161	5805.0	9.39	9.13	12.27
		165	5825.0	9.30	9.16	12.24
	54M	36	5180.0	9.70	9.29	12.51
		40	5200.0	9.59	9.14	12.38
		44	5220.0	9.53	9.20	12.38
		48	5240.0	9.55	9.04	12.31
		149	5745.0	9.14	8.85	12.01
		153	5765.0	9.18	8.92	12.06
		157	5785.0	9.21	9.00	12.12
		161	5805.0	9.31	9.08	12.21
		165	5825.0	9.24	9.12	12.19
IEEE 802.11ac 20MHz	13M	36	5180.0	9.58	9.22	12.41
		40	5200.0	9.41	9.17	12.30
		44	5220.0	9.52	9.23	12.39
		48	5240.0	9.47	9.05	12.28
		149	5745.0	9.13	8.91	12.03
		153	5765.0	8.93	8.88	11.92
		157	5785.0	9.08	8.97	12.04
		161	5805.0	9.19	9.07	12.14
		165	5825.0	9.10	9.04	12.08
	156M	36	5180.0	9.43	9.05	12.25
		40	5200.0	9.25	8.99	12.13
		44	5220.0	9.39	9.09	12.25
		48	5240.0	9.31	8.91	12.12
		149	5745.0	9.03	8.76	11.91
		153	5765.0	8.79	8.72	11.77
		157	5785.0	8.94	8.85	11.91
		161	5805.0	9.09	8.95	12.03
		165	5825.0	9.01	8.91	11.97
IEEE 802.11ac 40MHz	27M	38	5190.0	9.12	8.72	11.93
		46	5230.0	9.19	8.86	12.04
		151	5755.0	9.39	9.28	12.35
		159	5795.0	9.42	9.33	12.39
	360M	38	5190.0	8.75	8.41	11.59
		46	5230.0	8.83	8.55	11.70
		151	5755.0	9.31	9.16	12.25
		159	5795.0	9.36	9.24	12.31
IEEE 802.11ac 80MHz	58.6M	42	5210.0	9.80	9.46	12.64
		155	5775.0	9.32	9.09	12.22
	780M	42	5210.0	8.59	8.28	11.45
		155	5775.0	8.10	7.89	11.01

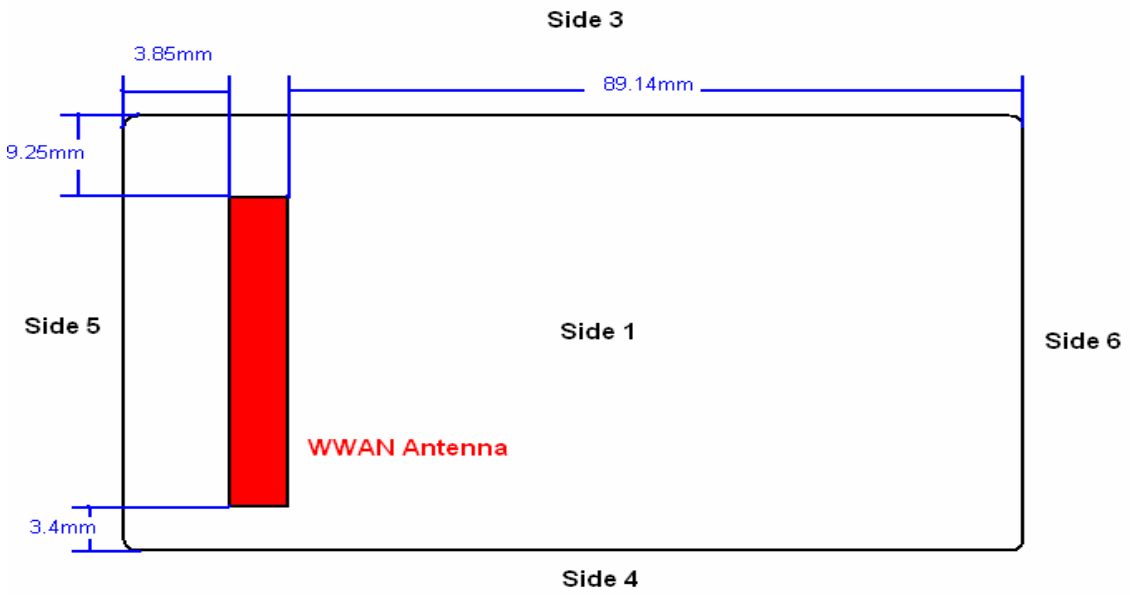
6.9 Antenna location

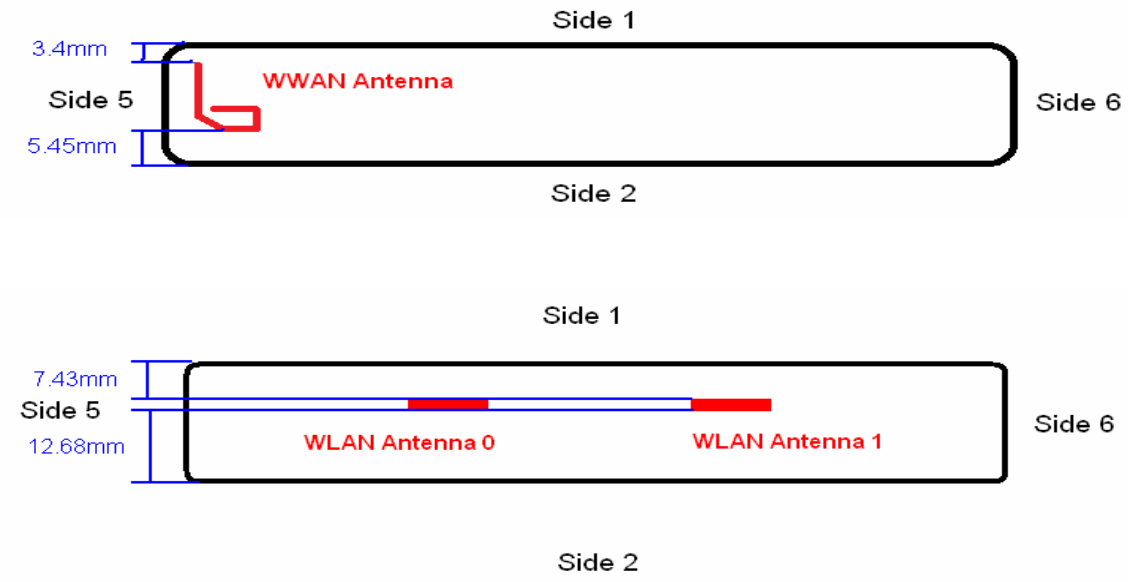
Antenna-User					
Distance of WWAN_Antenna to edge		Distance of WLAN_Antenna0 to edge		Distance of WLAN_Antenna1 to edge	
WWAN_Antenna to Side 1	3.4mm	WLAN_Antenna0 to Side 1	7.43mm	WLAN_Antenna1 to Side 1	7.43mm
WWAN_Antenna to Side 2	5.45mm	WLAN_Antenna0 to Side 2	12.68mm	WLAN_Antenna1 to Side 2	12.68mm
WWAN_Antenna to Side 3	9.25mm	WLAN_Antenna0 to Side 3	3.98mm	WLAN_Antenna1 to Side 3	3.98mm
WWAN_Antenna to Side 4	3.4mm	WLAN_Antenna0 to Side 4	60.03mm	WLAN_Antenna1 to Side 4	60.03mm
WWAN_Antenna to Side 5	3.85mm	WLAN_Antenna0 to Side 5	25.04mm	WLAN_Antenna1 to Side 5	75.39mm
WWAN_Antenna to Side 6	89.14mm	WLAN_Antenna0 to Side 6	74.98mm	WLAN_Antenna1 to Side 6	24.42mm

Antenna-Antenna	
Antenna account	Distance (cm)
WWAN_Antenna to WLAN_Antenna0	2.3mm
WWAN_Antenna to WLAN_Antenna1	55.68mm
WLAN_Antenna0 to WLAN_Antenna1	40.5mm









6.10 Stand-alone SAR Evaluate

Transmitter and antenna implementation as below:

Band	WWAN Antenna	WLAN Antenna0	WLAN Antenna1
WWAN	V	-	-
WLAN	-	V	V

Stand-alone transmission configurations as below:

Band	Side 1	Side 2	Side 3	Side 4	Side 5	Side 6
GPRS/EGPRS 850	V	V	V	V	V	V
GPRS/EGPRS 1900	V	V	V	V	V	V
WCDMA Band II	V	V	V	V	V	-
WCDMA Band V	V	V	V	V	V	-
LTE Band 2	V	V	V	V	V	-
LTE Band 4	V	V	V	V	V	-
LTE Band 5	V	V	V	V	V	-
LTE Band 7	V	V	V	V	V	-
LTE Band 12	V	V	V	V	V	-
LTE Band 30	V	V	V	V	V	-
IEEE 802.11b	-	V	V	-	V	-
IEEE 802.11g	-	-	V	-	-	-
IEEE 802.11n 2.4GHz 20MHz	-	-	V	-	-	-
IEEE 802.11n 2.4GHz 40MHz	-	-	V	-	-	-
IEEE 802.11a	V	V	V	-	V	-
IEEE 802.11ac 20MHz	V	-	V	-	-	-
IEEE 802.11ac 40MHz	V	-	V	-	-	-
IEEE 802.11ac 80MHz	V	-	V	-	-	-

Note: The "-" on behalf of Stand-alone SAR is not required (Refer to KDB447498 D01 v06 4.3.1 for the Standalone SAR test exclusion considerations).

≤ 50 mm										
Antenna	Side	Band	Channel	Power (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Result	Limit	Exclusion Considerations SAR1g
WWAN Antenna	1	GPRS 850	190	33	0.837	5	1995	364.9	3	SAR is required
		GPRS 1900	661	30.5	1.880	5	1122	307.7	3	SAR is required
		WCDMA Band II	9400	23	1.880	5	200	54.8	3	SAR is required
		WCDMA Band V	4183	24	0.837	5	251	45.9	3	SAR is required
		LTE Band 2	18900	23.5	1.880	5	224	61.4	3	SAR is required
		LTE Band 4	20175	23.5	1.733	5	224	59	3	SAR is required
		LTE Band 5	20525	24	0.837	5	251	45.9	3	SAR is required
		LTE Band 7	21100	22.5	2.535	5	178	56.7	3	SAR is required
		LTE Band 12	23095	24.5	0.708	5	282	47.4	3	SAR is required
		LTE Band 30	27710	24	2.310	5	251	76.3	3	SAR is required
WLAN Antenna0		IEEE 802.11b	6	10	2.437	7.43	10	2.1	3	SAR is not required
		IEEE 802.11g	1	10	2.412	7.43	10	2.1	3	SAR is not required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	7.43	10	2.1	3	SAR is not required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	7.43	10	2.1	3	SAR is not required
		IEEE 802.11a	36	10	5.180	7.43	10	3.1	3	SAR is required
		IEEE 802.11a	161	10	5.805	7.43	10	3.2	3	SAR is required
		IEEE 802.11ac 20MHz	36	10	5.180	7.43	10	3.1	3	SAR is required
		IEEE 802.11ac 20MHz	161	10	5.805	7.43	10	3.2	3	SAR is required
		IEEE 802.11ac 40MHz	46	10	5.230	7.43	10	3.1	3	SAR is required
		IEEE 802.11ac 40MHz	159	10	5.795	7.43	10	3.2	3	SAR is required
		IEEE 802.11ac 80MHz	42	10	5.210	7.43	10	3.1	3	SAR is required
		IEEE 802.11ac 80MHz	155	10	5.775	7.43	10	3.2	3	SAR is required

≤ 50 mm										
Antenna	Side	Band	Channel	Power (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Result	Limit	Exclusion Considerations SAR[1g]
WLAN Antenna1	1	IEEE 802.11b	6	10	2.437	7.43	10	2.1	3	SAR is not required
		IEEE 802.11g	6	10	2.437	7.43	10	2.1	3	SAR is not required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	7.43	10	2.1	3	SAR is not required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	7.43	10	2.1	3	SAR is not required
		IEEE 802.11a	36	10	5.180	7.43	10	3.1	3	SAR is required
		IEEE 802.11a	165	10	5.825	7.43	10	3.2	3	SAR is required
		IEEE 802.11ac 20MHz	44	10	5.220	7.43	10	3.1	3	SAR is required
		IEEE 802.11ac 20MHz	161	10	5.805	7.43	10	3.2	3	SAR is required
		IEEE 802.11ac 40MHz	46	10	5.230	7.43	10	3.1	3	SAR is required
		IEEE 802.11ac 40MHz	159	10	5.795	7.43	10	3.2	3	SAR is required
		IEEE 802.11ac 80MHz	42	10	5.210	7.43	10	3.1	3	SAR is required
		IEEE 802.11ac 80MHz	155	10	5.775	7.43	10	3.2	3	SAR is required

≤ 50 mm										
Antenna	Side	Band	Channel	Power (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Result	Limit	Exclusion Considerations SAR1g
WWAN Antenna	2	GPRS 850	190	33	0.837	5.45	1995	334.8	3	SAR is required
		GPRS 1900	661	30.5	1.880	5.45	1122	282.3	3	SAR is required
		WCDMA Band II	9400	23	1.880	5.45	200	50.3	3	SAR is required
		WCDMA Band V	4183	24	0.837	5.45	251	42.1	3	SAR is required
		LTE Band 2	18900	23.5	1.880	5.45	224	56.4	3	SAR is required
		LTE Band 4	20175	23.5	1.733	5.45	224	54.1	3	SAR is required
		LTE Band 5	20525	24	0.837	5.45	251	42.1	3	SAR is required
		LTE Band 7	21100	22.5	2.535	5.45	178	52	3	SAR is required
		LTE Band 12	23095	24.5	0.708	5.45	282	43.5	3	SAR is required
		LTE Band 30	27710	24	2.310	5.45	251	70	3	SAR is required
WLAN Antenna0		IEEE 802.11b	6	10	2.437	12.68	10	1.2	3	SAR is not required
		IEEE 802.11g	1	10	2.412	12.68	10	1.2	3	SAR is not required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	12.68	10	1.2	3	SAR is not required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	12.68	10	1.2	3	SAR is not required
		IEEE 802.11a	36	10	5.180	12.68	10	1.8	3	SAR is not required
		IEEE 802.11a	161	10	5.805	12.68	10	1.9	3	SAR is not required
		IEEE 802.11ac 20MHz	36	10	5.180	12.68	10	1.8	3	SAR is not required
		IEEE 802.11ac 20MHz	161	10	5.805	12.68	10	1.9	3	SAR is not required
		IEEE 802.11ac 40MHz	46	10	5.230	12.68	10	1.8	3	SAR is not required
		IEEE 802.11ac 40MHz	159	10	5.795	12.68	10	1.9	3	SAR is not required
		IEEE 802.11ac 80MHz	42	10	5.210	12.68	10	1.8	3	SAR is not required
		IEEE 802.11ac 80MHz	155	10	5.775	12.68	10	1.9	3	SAR is not required

≤ 50 mm										
Antenna	Side	Band	Channel	Power (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Result	Limit	Exclusion Considerations SAR[1g]
WLAN Antenna1	2	IEEE 802.11b	6	10	2.437	12.68	10	1.2	3	SAR is not required
		IEEE 802.11g	6	10	2.437	12.68	10	1.2	3	SAR is not required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	12.68	10	1.2	3	SAR is not required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	12.68	10	1.2	3	SAR is not required
		IEEE 802.11a	36	10	5.180	12.68	10	1.8	3	SAR is not required
		IEEE 802.11a	165	10	5.825	12.68	10	1.9	3	SAR is not required
		IEEE 802.11ac 20MHz	44	10	5.220	12.68	10	1.8	3	SAR is not required
		IEEE 802.11ac 20MHz	161	10	5.805	12.68	10	1.9	3	SAR is not required
		IEEE 802.11ac 40MHz	46	10	5.230	12.68	10	1.8	3	SAR is not required
		IEEE 802.11ac 40MHz	159	10	5.795	12.68	10	1.9	3	SAR is not required
		IEEE 802.11ac 80MHz	42	10	5.210	12.68	10	1.8	3	SAR is not required
		IEEE 802.11ac 80MHz	155	10	5.775	12.68	10	1.9	3	SAR is not required

≤ 50 mm										
Antenna	Side	Band	Channel	Power (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Result	Limit	Exclusion Considerations SAR1g
WWAN Antenna	3	GPRS 850	190	33	0.837	9.25	1995	197.3	3	SAR is required
		GPRS 1900	661	30.5	1.880	9.25	1122	166.3	3	SAR is required
		WCDMA Band II	9400	23	1.880	9.25	200	29.6	3	SAR is required
		WCDMA Band V	4183	24	0.837	9.25	251	24.8	3	SAR is required
		LTE Band 2	18900	23.5	1.880	9.25	224	33.2	3	SAR is required
		LTE Band 4	20175	23.5	1.733	9.25	224	31.9	3	SAR is required
		LTE Band 5	20525	24	0.837	9.25	251	24.8	3	SAR is required
		LTE Band 7	21100	22.5	2.535	9.25	178	30.6	3	SAR is required
		LTE Band 12	23095	24.5	0.708	9.25	282	25.6	3	SAR is required
		LTE Band 30	27710	24	2.310	9.25	251	41.2	3	SAR is required
WLAN Antenna0		IEEE 802.11b	6	10	2.437	5	10	3.1	3	SAR is required
		IEEE 802.11g	1	10	2.412	5	10	3.1	3	SAR is required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	5	10	3.1	3	SAR is required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	5	10	3.1	3	SAR is required
		IEEE 802.11a	36	10	5.180	5	10	4.6	3	SAR is required
		IEEE 802.11a	161	10	5.805	5	10	4.8	3	SAR is required
		IEEE 802.11ac 20MHz	36	10	5.180	5	10	4.6	3	SAR is required
		IEEE 802.11ac 20MHz	161	10	5.805	5	10	4.8	3	SAR is required
		IEEE 802.11ac 40MHz	46	10	5.230	5	10	4.6	3	SAR is required
		IEEE 802.11ac 40MHz	159	10	5.795	5	10	4.8	3	SAR is required
		IEEE 802.11ac 80MHz	42	10	5.210	5	10	4.6	3	SAR is required
		IEEE 802.11ac 80MHz	155	10	5.775	5	10	4.8	3	SAR is required

≤ 50 mm										
Antenna	Side	Band	Channel	Power (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Result	Limit	Exclusion Considerations SAR1g
WLAN Antenna1	3	IEEE 802.11b	6	10	2.437	5	10	3.1	3	SAR is required
		IEEE 802.11g	6	10	2.437	5	10	3.1	3	SAR is required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	5	10	3.1	3	SAR is required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	5	10	3.1	3	SAR is required
		IEEE 802.11a	36	10	5.180	5	10	4.6	3	SAR is required
		IEEE 802.11a	165	10	5.825	5	10	4.8	3	SAR is required
		IEEE 802.11ac 20MHz	44	10	5.220	5	10	4.6	3	SAR is required
		IEEE 802.11ac 20MHz	161	10	5.805	5	10	4.8	3	SAR is required
		IEEE 802.11ac 40MHz	46	10	5.230	5	10	4.6	3	SAR is required
		IEEE 802.11ac 40MHz	159	10	5.795	5	10	4.8	3	SAR is required
		IEEE 802.11ac 80MHz	42	10	5.210	5	10	4.6	3	SAR is required
		IEEE 802.11ac 80MHz	155	10	5.775	5	10	4.8	3	SAR is required

≤ 50 mm										
Antenna	Side	Band	Channel	Power (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Result	Limit	Exclusion Considerations SAR1g
WWAN Antenna	4	GPRS 850	190	33	0.837	5	1995	364.9	3	SAR is required
		GPRS 1900	661	30.5	1.880	5	1122	307.7	3	SAR is required
		WCDMA Band II	9400	23	1.880	5	200	54.8	3	SAR is required
		WCDMA Band V	4183	24	0.837	5	251	45.9	3	SAR is required
		LTE Band 2	18900	23.5	1.880	5	224	61.4	3	SAR is required
		LTE Band 4	20175	23.5	1.733	5	224	59	3	SAR is required
		LTE Band 5	20525	24	0.837	5	251	45.9	3	SAR is required
		LTE Band 7	21100	22.5	2.535	5	178	56.7	3	SAR is required
		LTE Band 12	23095	24.5	0.708	5	282	47.4	3	SAR is required
		LTE Band 30	27710	24	2.310	5	251	76.3	3	SAR is required
WWAN Antenna	5	GPRS 850	190	33	0.837	5	1995	364.9	3	SAR is required
		GPRS 1900	661	30.5	1.880	5	1122	307.7	3	SAR is required
		WCDMA Band II	9400	23	1.880	5	200	54.8	3	SAR is required
		WCDMA Band V	4183	24	0.837	5	251	45.9	3	SAR is required
		LTE Band 2	18900	23.5	1.880	5	224	61.4	3	SAR is required
		LTE Band 4	20175	23.5	1.733	5	224	59	3	SAR is required
		LTE Band 5	20525	24	0.837	5	251	45.9	3	SAR is required
		LTE Band 7	21100	22.5	2.535	5	178	56.7	3	SAR is required
		LTE Band 12	23095	24.5	0.708	5	282	47.4	3	SAR is required
		LTE Band 30	27710	24	2.310	5	251	76.3	3	SAR is required
WLAN Antenna0		IEEE 802.11b	6	10	2.437	25.04	10	0.6	3	SAR is not required
		IEEE 802.11g	6	10	2.437	25.04	10	0.6	3	SAR is not required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	25.04	10	0.6	3	SAR is not required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	25.04	10	0.6	3	SAR is not required
		IEEE 802.11a	36	10	5.180	25.04	10	0.9	3	SAR is not required
		IEEE 802.11a	165	10	5.825	25.04	10	1	3	SAR is not required
		IEEE 802.11ac 20MHz	44	10	5.220	25.04	10	0.9	3	SAR is not required
		IEEE 802.11ac 20MHz	161	10	5.805	25.04	10	1	3	SAR is not required
		IEEE 802.11ac 40MHz	46	10	5.230	25.04	10	0.9	3	SAR is not required
		IEEE 802.11ac 40MHz	159	10	5.795	25.04	10	1	3	SAR is not required
		IEEE 802.11ac 80MHz	42	10	5.210	25.04	10	0.9	3	SAR is not required
		IEEE 802.11ac 80MHz	155	10	5.775	25.04	10	1	3	SAR is not required

≤ 50 mm										
Antenna	Side	Band	Channel	Power (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Result	Limit	Exclusion Considerations SAR[1g]
WLAN Antenna1	6	IEEE 802.11b	6	10	2.437	24.42	10	0.6	3	SAR is not required
		IEEE 802.11g	1	10	2.412	24.42	10	0.6	3	SAR is not required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	24.42	10	0.6	3	SAR is not required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	24.42	10	0.6	3	SAR is not required
		IEEE 802.11a	36	10	5.180	24.42	10	0.9	3	SAR is not required
		IEEE 802.11a	161	10	5.805	24.42	10	1	3	SAR is not required
		IEEE 802.11ac 20MHz	36	10	5.180	24.42	10	0.9	3	SAR is not required
		IEEE 802.11ac 20MHz	161	10	5.805	24.42	10	1	3	SAR is not required
		IEEE 802.11ac 40MHz	46	10	5.230	24.42	10	0.9	3	SAR is not required
		IEEE 802.11ac 40MHz	159	10	5.795	24.42	10	1	3	SAR is not required
		IEEE 802.11ac 80MHz	42	10	5.210	24.42	10	0.9	3	SAR is not required
		IEEE 802.11ac 80MHz	155	10	5.775	24.42	10	1	3	SAR is not required

Note: 1.The test reduction for distance more than 50mm. Use the max power to make sure minimum distance by evaluated for SAR testing.

> 50 mm <200mm									
Antenna	Side	Band	Channel	Power (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Power Thresholds SAR[1g] (mW)	Exclusion Considerations SAR[1g]
WLAN Antenna0	4	IEEE IEEE 802.11b	6	10	2.437	60.03	10	196	SAR is not required
		IEEE 802.11g	1	10	2.412	60.03	10	197	SAR is not required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	60.03	10	196	SAR is not required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	60.03	10	196	SAR is not required
		IEEE 802.11a	36	10	5.180	60.03	10	166	SAR is not required
		IEEE 802.11a	161	10	5.805	60.03	10	163	SAR is not required
		IEEE 802.11ac 20MHz	36	10	5.180	60.03	10	166	SAR is not required
		IEEE 802.11ac 20MHz	161	10	5.805	60.03	10	163	SAR is not required
		IEEE 802.11ac 40MHz	46	10	5.230	60.03	10	166	SAR is not required
		IEEE 802.11ac 40MHz	159	10	5.795	60.03	10	163	SAR is not required
		IEEE 802.11ac 80MHz	42	10	5.210	60.03	10	166	SAR is not required
		IEEE 802.11ac 80MHz	155	10	5.775	60.03	10	163	SAR is not required
WLAN Antenna1		IEEE IEEE 802.11b	6	10	2.437	60.03	10	196	SAR is not required
		IEEE 802.11g	6	10	2.437	60.03	10	196	SAR is not required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	60.03	10	196	SAR is not required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	60.03	10	196	SAR is not required
		IEEE 802.11a	36	10	5.180	60.03	10	166	SAR is not required
		IEEE 802.11a	165	10	5.825	60.03	10	162	SAR is not required
		IEEE 802.11ac 20MHz	44	10	5.220	60.03	10	166	SAR is not required
		IEEE 802.11ac 20MHz	161	10	5.805	60.03	10	163	SAR is not required
		IEEE 802.11ac 40MHz	46	10	5.230	60.03	10	166	SAR is not required
		IEEE 802.11ac 40MHz	159	10	5.795	60.03	10	163	SAR is not required
		IEEE 802.11ac 80MHz	42	10	5.210	60.03	10	166	SAR is not required
		IEEE 802.11ac 80MHz	155	10	5.775	60.03	10	163	SAR is not required

> 50 mm <200mm									
Antenna	Side	Band	Channel	Power (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Power Thresholds SAR[1g] (mW)	Exclusion Considerations SAR[1g]
WLAN Antenna1	5	IEEE 802.11b	6	10	2.437	75.39	10	350	SAR is not required
		IEEE 802.11g	1	10	2.412	75.39	10	350	SAR is not required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	75.39	10	350	SAR is not required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	75.39	10	350	SAR is not required
		IEEE 802.11a	36	10	5.180	75.39	10	320	SAR is not required
		IEEE 802.11a	161	10	5.805	75.39	10	316	SAR is not required
		IEEE 802.11ac 20MHz	36	10	5.180	75.39	10	320	SAR is not required
		IEEE 802.11ac 20MHz	161	10	5.805	75.39	10	316	SAR is not required
		IEEE 802.11ac 40MHz	46	10	5.230	75.39	10	319	SAR is not required
		IEEE 802.11ac 40MHz	159	10	5.795	75.39	10	316	SAR is not required
		IEEE 802.11ac 80MHz	42	10	5.210	75.39	10	320	SAR is not required
		IEEE 802.11ac 80MHz	155	10	5.775	75.39	10	316	SAR is not required

> 50 mm <200mm									
Antenna	Side	Band	Channel	Power (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Power Thresholds SAR[1g] (mW)	Exclusion Considerations SAR[1g]
WWAN Antenna	6	GPRS 850	190	33	0.837	89.14	1995	382	SAR is required
		GPRS 1900	661	30.5	1.880	89.14	1122	501	SAR is required
		WCDMA Band II	9400	23	1.880	89.14	200	501	SAR is not required
		WCDMA Band V	4183	24	0.837	89.14	251	382	SAR is not required
		LTE Band 2	18900	23.5	1.880	89.14	224	501	SAR is not required
		LTE Band 4	20175	23.5	1.733	89.14	224	505	SAR is not required
		LTE Band 5	20525	24	0.837	89.14	251	382	SAR is not required
		LTE Band 7	21100	22.5	2.535	89.14	178	486	SAR is not required
		LTE Band 12	23095	24.5	0.708	89.14	282	363	SAR is not required
		LTE Band 30	27710	24	2.310	89.14	251	490	SAR is not required
WLAN Antenna0		IEEE 802.11b	6	10	2.437	74.98	10	346	SAR is not required
		IEEE 802.11g	6	10	2.437	74.98	10	346	SAR is not required
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	74.98	10	346	SAR is not required
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	74.98	10	346	SAR is not required
		IEEE 802.11a	36	10	5.180	74.98	10	316	SAR is not required
		IEEE 802.11a	165	10	5.825	74.98	10	312	SAR is not required
		IEEE 802.11ac 20MHz	44	10	5.220	74.98	10	315	SAR is not required
		IEEE 802.11ac 20MHz	161	10	5.805	74.98	10	312	SAR is not required
		IEEE 802.11ac 40MHz	46	10	5.230	74.98	10	315	SAR is not required
		IEEE 802.11ac 40MHz	159	10	5.795	74.98	10	312	SAR is not required
		IEEE 802.11ac 80MHz	42	10	5.210	74.98	10	316	SAR is not required
		IEEE 802.11ac 80MHz	155	10	5.775	74.98	10	312	SAR is not required

Note: 1.The test reduction for distance more than 50mm. Use the max power to make sure minimum distance by evaluated for SAR testing.

6.11 Simultaneous Transmitting Evaluate

Simultaneous transmission configurations as below:

Condition	Side	Frequency Band		
		WWAN Antenna	WLAN Antenna0	WLAN Antenna1
1	1	V	V	V
2	2	V	V	V
3	3	V	V	V
4	4	V	V	V
5	5	V	V	V
6	6	V	V	V

6.11.1 Estimated SAR

≤ 50 mm								
Antenna	Side	Band	Channel	Power-Tune up (dBm)	Frequency (GHz)	Distance (mm)	Power (mW)	Estimated SAR[1g] (W/Kg)
WLAN Antenna1	6	IEEE 802.11b	6	10	2.437	24.42	10	0.09
		IEEE 802.11g	1	10	2.412	24.42	10	0.09
		IEEE 802.11n 2.4GHz 20MHz	6	10	2.437	24.42	10	0.09
		IEEE 802.11n 2.4GHz 40MHz	6	10	2.437	24.42	10	0.09
		IEEE 802.11a	36	10	5.180	24.42	10	0.12
		IEEE 802.11a	161	10	5.805	24.42	10	0.13
		IEEE 802.11ac 20MHz	36	10	5.180	24.42	10	0.12
		IEEE 802.11ac 20MHz	161	10	5.805	24.42	10	0.13
		IEEE 802.11ac 40MHz	46	10	5.230	24.42	10	0.13
		IEEE 802.11ac 40MHz	159	10	5.795	24.42	10	0.13
		IEEE 802.11ac 80MHz	42	10	5.210	24.42	10	0.13
		IEEE 802.11ac 80MHz	155	10	5.775	24.42	10	0.13

> 50 mm			
Antenna	Side	Band	Estimated SAR[1g] (W/Kg)
WLAN Antenna0	4	IEEE 802.11b	0.4
		IEEE 802.11g	0.4
		IEEE 802.11n 2.4GHz 20MHz	0.4
		IEEE 802.11n 2.4GHz 40MHz	0.4
		IEEE 802.11a	0.4
		IEEE 802.11a	0.4
		IEEE 802.11ac 20MHz	0.4
		IEEE 802.11ac 20MHz	0.4
		IEEE 802.11ac 40MHz	0.4
		IEEE 802.11ac 40MHz	0.4
		IEEE 802.11ac 80MHz	0.4
		IEEE 802.11ac 80MHz	0.4
WLAN Antenna1		IEEE 802.11b	0.4
		IEEE 802.11g	0.4
		IEEE 802.11n 2.4GHz 20MHz	0.4
		IEEE 802.11n 2.4GHz 40MHz	0.4
		IEEE 802.11a	0.4
		IEEE 802.11a	0.4
		IEEE 802.11ac 20MHz	0.4
		IEEE 802.11ac 20MHz	0.4
		IEEE 802.11ac 40MHz	0.4
		IEEE 802.11ac 40MHz	0.4
		IEEE 802.11ac 80MHz	0.4
		IEEE 802.11ac 80MHz	0.4

> 50 mm			
Antenna	Side	Band	Estimated SAR[1g] (W/Kg)
WWAN Antenna	6	WCDMA Band II	0.4
		WCDMA Band V	0.4
		LTE Band 2	0.4
		LTE Band 4	0.4
		LTE Band 5	0.4
		LTE Band 7	0.4
		LTE Band 12	0.4
		LTE Band 30	0.4
WLAN Antenna0		IEEE 802.11b	0.4
		IEEE 802.11g	0.4
		IEEE 802.11n 2.4GHz 20MHz	0.4
		IEEE 802.11n 2.4GHz 40MHz	0.4
		IEEE 802.11a	0.4
		IEEE 802.11a	0.4
		IEEE 802.11ac 20MHz	0.4
		IEEE 802.11ac 20MHz	0.4
		IEEE 802.11ac 40MHz	0.4
		IEEE 802.11ac 40MHz	0.4
		IEEE 802.11ac 80MHz	0.4
		IEEE 802.11ac 80MHz	0.4

6.11.2 Sum of 1-g SAR of all simultaneously transmitting

When the sum of 1-g SAR of all simultaneously transmitting antennas in and operating mode and exposure condition combination is within the SAR limit, SAR test exclusion applies to that simultaneous transmission configuration.

Sum of 1-g SAR of summary as below:

Phantom Position		Spacing (mm)	ASSY	WWAN Antenna		WLAN Antenna0		WLAN Antenna1		∑ SAR_{1g} (W/Kg)	Event
				Band	SAR_{1g} (W/Kg)	Band	SAR_{1g} (W/Kg)	Band	SAR_{1g} (W/Kg)		
Flat	Side 1	10	N/A	GPRS 850	0.76	WLAN 5GHz	0.07	WLAN 5GHz	0.10	0.93	<1.6
		10	N/A	GPRS 1900	1.24	WLAN 5GHz	0.07	WLAN 5GHz	0.10	1.41	<1.6
		10	N/A	WCDMA Band II	1.07	WLAN 5GHz	0.07	WLAN 5GHz	0.10	1.24	<1.6
		10	N/A	WCDMA Band V	1.11	WLAN 5GHz	0.07	WLAN 5GHz	0.10	1.28	<1.6
		10	N/A	LTE Band 2	1.01	WLAN 5GHz	0.07	WLAN 5GHz	0.10	1.18	<1.6
		10	N/A	LTE Band 4	1.31	WLAN 5GHz	0.07	WLAN 5GHz	0.10	1.48	<1.6
		10	N/A	LTE Band 5	1.00	WLAN 5GHz	0.07	WLAN 5GHz	0.10	1.17	<1.6
		10	N/A	LTE Band 7	1.15	WLAN 5GHz	0.07	WLAN 5GHz	0.10	1.32	<1.6
		10	N/A	LTE Band 12	1.07	WLAN 5GHz	0.07	WLAN 5GHz	0.10	1.24	<1.6
		10	N/A	LTE Band 30	0.87	WLAN 5GHz	0.07	WLAN 5GHz	0.10	1.04	<1.6
Flat	Side 2	10	N/A	GPRS 850	0.75	WLAN 5GHz	0.02	WLAN 5GHz	0.04	0.81	<1.6
		10	N/A	GPRS 1900	0.75	WLAN 5GHz	0.02	WLAN 5GHz	0.04	0.81	<1.6
		10	N/A	WCDMA Band II	0.60	WLAN 5GHz	0.02	WLAN 5GHz	0.04	0.66	<1.6
		10	N/A	WCDMA Band V	1.16	WLAN 5GHz	0.02	WLAN 5GHz	0.04	1.22	<1.6
		10	N/A	LTE Band 2	0.60	WLAN 5GHz	0.02	WLAN 5GHz	0.04	0.66	<1.6
		10	N/A	LTE Band 4	0.61	WLAN 5GHz	0.02	WLAN 5GHz	0.04	0.67	<1.6
		10	N/A	LTE Band 5	1.02	WLAN 5GHz	0.02	WLAN 5GHz	0.04	1.08	<1.6
		10	N/A	LTE Band 7	0.65	WLAN 5GHz	0.02	WLAN 5GHz	0.04	0.71	<1.6
		10	N/A	LTE Band 12	0.91	WLAN 5GHz	0.02	WLAN 5GHz	0.04	0.97	<1.6
		10	N/A	LTE Band 30	0.72	WLAN 5GHz	0.02	WLAN 5GHz	0.04	0.78	<1.6

Phantom Position		Spacing (mm)	ASSY	WWAN Antenna		WLAN Antenna0		WLAN Antenna1		∑ SAR_{1g} (W/Kg)	Event
				Band	SAR_{1g} (W/Kg)	Band	SAR_{1g} (W/Kg)	Band	SAR_{1g} (W/Kg)		
Flat	Side 3	10	N/A	GPRS 850	0.46	WLAN 5GHz	0.09	WLAN 5GHz	0.16	0.71	<1.6
		10	N/A	GPRS 1900	0.22	WLAN 5GHz	0.09	WLAN 5GHz	0.16	0.47	<1.6
		10	N/A	WCDMA Band II	0.19	WLAN 5GHz	0.09	WLAN 5GHz	0.16	0.44	<1.6
		10	N/A	WCDMA Band V	0.55	WLAN 5GHz	0.09	WLAN 5GHz	0.16	0.80	<1.6
		10	N/A	LTE Band 2	0.17	WLAN 5GHz	0.09	WLAN 5GHz	0.16	0.42	<1.6
		10	N/A	LTE Band 4	0.15	WLAN 5GHz	0.09	WLAN 5GHz	0.16	0.40	<1.6
		10	N/A	LTE Band 5	0.51	WLAN 5GHz	0.09	WLAN 5GHz	0.16	0.76	<1.6
		10	N/A	LTE Band 7	0.07	WLAN 5GHz	0.09	WLAN 5GHz	0.16	0.32	<1.6
		10	N/A	LTE Band 12	0.43	WLAN 5GHz	0.09	WLAN 5GHz	0.16	0.68	<1.6
		10	N/A	LTE Band 30	0.65	WLAN 5GHz	0.09	WLAN 5GHz	0.16	0.90	<1.6
Flat	Side 4	10	N/A	GPRS 850	0.49	WLAN 5GHz	**0.4	WLAN 5GHz	**0.4	1.29	<1.6
		10	N/A	GPRS 1900	0.68	WLAN 5GHz	**0.4	WLAN 5GHz	**0.4	1.48	<1.6
		10	N/A	WCDMA Band II	0.68	WLAN 5GHz	**0.4	WLAN 5GHz	**0.4	1.48	<1.6
		10	N/A	WCDMA Band V	0.52	WLAN 5GHz	**0.4	WLAN 5GHz	**0.4	1.32	<1.6
		10	N/A	LTE Band 2	0.66	WLAN 5GHz	**0.4	WLAN 5GHz	**0.4	1.46	<1.6
		10	N/A	LTE Band 4	0.55	WLAN 5GHz	**0.4	WLAN 5GHz	**0.4	1.35	<1.6
		10	N/A	LTE Band 5	0.44	WLAN 5GHz	**0.4	WLAN 5GHz	**0.4	1.24	<1.6
		10	N/A	LTE Band 7	0.27	WLAN 5GHz	**0.4	WLAN 5GHz	**0.4	1.07	<1.6
		10	N/A	LTE Band 12	0.46	WLAN 5GHz	**0.4	WLAN 5GHz	**0.4	1.26	<1.6
		10	N/A	LTE Band 30	0.26	WLAN 5GHz	**0.4	WLAN 5GHz	**0.4	1.06	<1.6

Phantom Position		Spacing (mm)	ASSY	WWAN Antenna		WLAN Antenna0		WLAN Antenna1		∑ SAR_{1g} (W/Kg)	Event
				Band	SAR_{1g} (W/Kg)	Band	SAR_{1g} (W/Kg)	Band	SAR_{1g} (W/Kg)		
Flat	Side 5	10	N/A	GPRS 850	0.15	WLAN 5GHz	0.03	WLAN 5GHz	0.03	0.21	<1.6
		10	N/A	GPRS 1900	0.68	WLAN 5GHz	0.03	WLAN 5GHz	0.03	0.74	<1.6
		10	N/A	WCDMA Band II	0.64	WLAN 5GHz	0.03	WLAN 5GHz	0.03	0.70	<1.6
		10	N/A	WCDMA Band V	0.18	WLAN 5GHz	0.03	WLAN 5GHz	0.03	0.24	<1.6
		10	N/A	LTE Band 2	0.65	WLAN 5GHz	0.03	WLAN 5GHz	0.03	0.71	<1.6
		10	N/A	LTE Band 4	0.76	WLAN 5GHz	0.03	WLAN 5GHz	0.03	0.82	<1.6
		10	N/A	LTE Band 5	0.17	WLAN 5GHz	0.03	WLAN 5GHz	0.03	0.23	<1.6
		10	N/A	LTE Band 7	1.44	WLAN 5GHz	0.03	WLAN 5GHz	0.03	1.50	<1.6
		10	N/A	LTE Band 12	0.07	WLAN 5GHz	0.03	WLAN 5GHz	0.03	0.13	<1.6
		10	N/A	LTE Band 30	0.24	WLAN 5GHz	0.03	WLAN 5GHz	0.03	0.30	<1.6
Flat	Side 6	10	N/A	GPRS 850	0.06	WLAN 5GHz	**0.4	WLAN 5GHz	*0.13	0.59	<1.6
		10	N/A	GPRS 1900	0.37	WLAN 5GHz	**0.4	WLAN 5GHz	*0.13	0.90	<1.6
		10	N/A	WCDMA Band II	**0.4	WLAN 5GHz	**0.4	WLAN 5GHz	*0.13	0.93	<1.6
		10	N/A	WCDMA Band V	**0.4	WLAN 5GHz	**0.4	WLAN 5GHz	*0.13	0.93	<1.6
		10	N/A	LTE Band 2	**0.4	WLAN 5GHz	**0.4	WLAN 5GHz	*0.13	0.93	<1.6
		10	N/A	LTE Band 4	**0.4	WLAN 5GHz	**0.4	WLAN 5GHz	*0.13	0.93	<1.6
		10	N/A	LTE Band 5	**0.4	WLAN 5GHz	**0.4	WLAN 5GHz	*0.13	0.93	<1.6
		10	N/A	LTE Band 7	**0.4	WLAN 5GHz	**0.4	WLAN 5GHz	*0.13	0.93	<1.6
		10	N/A	LTE Band 12	**0.4	WLAN 5GHz	**0.4	WLAN 5GHz	*0.13	0.93	<1.6
		10	N/A	LTE Band 30	**0.4	WLAN 5GHz	**0.4	WLAN 5GHz	*0.13	0.93	<1.6

Note:

1.*=Estimated SAR

2.**The Estimated SAR 0.4W/Kg , test separation distances is > 50 mm .

6.11.3 SAR to peak location separation ratio (SPLSR)

When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The ratio is determined by (SAR1 + SAR2)^1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

All of sum of SAR < 1.6 W/kg, therefore SPLSR is not required.

6.12 SAR test reduction according to KDB

General:

- The test data reported are the worst-case SAR value with the position set in a typical configuration. Test procedures used were according to FCC, Supplement C [June 2001], IEEE1528-2013.
- All modes of operation were investigated, and worst-case results are reported.
- Tissue parameters and temperatures are listed on the SAR plots.
- Batteries are fully charged for all readings.
- When the Channel's SAR 1g of maximum conducted power is > 0.8 mW/g, low, middle and high channel are supposed to be tested.

KDB 447498:

- The test data reported are the worst-case SAR value with the position set in a typical configuration. Test procedures used were according to IEEE1528-2013.

KDB 865664:

- Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg.
- When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- Perform a second repeated measurement only 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 third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

KDB 941225:

- In order to qualify for the above test reduction, the maximum burst-averaged output power for each mode (GMS/GPRS/EDGE) and the corresponding multi-slot class must be clearly identified in the SAR report for each frequency band.We perform worst case SAR with maximum time-average power on GMS/GPRS/EDGE mode.
- When HSDPA & (HSUPA / HSPA+ uplink with QPSK) power are not more than WCDMA 12.2K RMC 0.25dB and the SAR value of WCDMA BII/BV<1.2 mW/g ,therefore HSDPA & HSUPA / HSPA+ Stand-alone SAR is not required.
- SAR for EVDO Rev. A is not required when the maximum average output of each RF channels is less than that measured in Subtype 0/1 Physical layer configurations.
- For 1xRTT SAR is not required when the maximum average output of each channel is less than 1/4 dB higher than that measured in EVDO Rev.0.
- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation, 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.
- For 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 in 5.2.1 and 5.2.2 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.
- SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.
- For smaller channel bandwidth SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

KDB 248227:

Refer 6.8 SAR Testing with 802.11 Transmitters.

7. System Verification and Validation

7.1 Symmetric Dipoles for System Verification

Construction	Symmetrical dipole with l/4 balun enables measurement of feed point impedance with NWA matched for use near flat phantoms filled with head simulating solutions Includes distance holder and tripod adaptor Calibration Calibrated SAR value for specified position and input power at the flat phantom in head simulating solutions.
Frequency	750, 835, 1750, 1900 ,2450, 2600, 5200 and 5600 MHz
Return Loss	> 20 dB at specified verification position
Power Capability	> 100 W (f < 1GHz); > 40 W (f > 1GHz)
Options	Dipoles for other frequencies or solutions and other calibration conditions are available upon request
Dimensions	D750V3: dipole length 177 mm; overall height 300 mm D835V2: dipole length 161 mm; overall height 340 mm D1750V2: dipole length 75.2 mm; overall height 301.5 mm D1900V2: dipole length 67.7 mm; overall height 300 mm D2450V2: dipole length 51.5 mm; overall height 300 mm D2600V2: dipole length 49.2 mm; overall height 290 mm D5GHzV2: dipole length 20.6 mm; overall height 300 mm

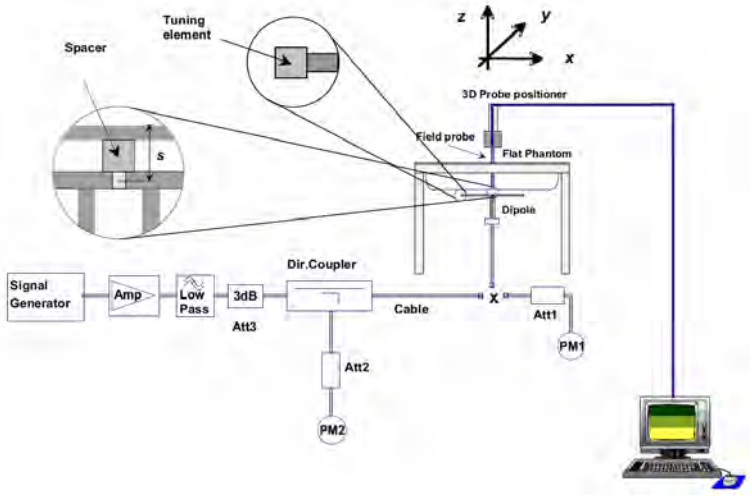


Figure 8. System Verification Setup Diagram

Figure 9. Validation Kit

7.2 Liquid Parameters

Liquid Verify								
Ambient Temperature： 22 ± 2 °C；Relative Humidity：40 -70%								
Liquid Type	Frequency	Temp (°C)	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)	Measured Date
750MHz (Body)	698MHz	22	εr	55.73	54.94	-1.42%	± 5	2015/10/21
			σ	0.959	0.944	-1.56%	± 5	
	730MHz	22	εr	55.61	54.27	-2.41%	± 5	
			σ	0.962	0.985	2.39%	± 5	
	750MHz	22	εr	55.53	54.58	-1.71%	± 5	
			σ	0.963	1.011	4.98%	± 5	
750MHz (Body)	698MHz	22	εr	55.73	54.94	-1.42%	± 5	2015/11/10
			σ	0.959	0.944	-1.56%	± 5	
	730MHz	22	εr	55.61	54.27	-2.41%	± 5	
			σ	0.962	0.985	2.39%	± 5	
	750MHz	22	εr	55.53	54.58	-1.71%	± 5	
			σ	0.963	1.011	4.98%	± 5	
835MHz (Body)	820MHz	22	εr	55.26	54.73	-0.96%	± 5	2015/10/23
			σ	0.969	0.961	-0.83%	± 5	
	835MHz	22	εr	55.20	54.85	-0.63%	± 5	
			σ	0.970	0.979	0.93%	± 5	
	850MHz	22	εr	55.15	54.87	-0.51%	± 5	
			σ	0.988	0.999	1.11%	± 5	
835MHz (Body)	820MHz	22	εr	55.26	54.73	-0.96%	± 5	2015/11/05
			σ	0.969	0.961	-0.83%	± 5	
	835MHz	22	εr	55.20	54.85	-0.63%	± 5	
			σ	0.970	0.979	0.93%	± 5	
	850MHz	22	εr	55.15	54.87	-0.51%	± 5	
			σ	0.988	0.999	1.11%	± 5	
835MHz (Body)	820MHz	22	εr	55.26	54.73	-0.96%	± 5	2015/11/09
			σ	0.969	0.961	-0.83%	± 5	
	835MHz	22	εr	55.20	54.85	-0.63%	± 5	
			σ	0.970	0.979	0.93%	± 5	
	850MHz	22	εr	55.15	54.87	-0.51%	± 5	
			σ	0.988	0.999	1.11%	± 5	

Table 3. Measured Tissue dielectric parameters for body phantoms -1

Liquid Verify								
Ambient Temperature： 22 ± 2 °C；Relative Humidity：40 -70%								
Liquid Type	Frequency	Temp (°C)	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)	Measured Date
835MHz (Body)	820MHz	22	εr	55.26	54.73	-0.96%	± 5	2015/11/24
			σ	0.969	0.961	-0.83%	± 5	
	835MHz	22	εr	55.20	54.85	-0.63%	± 5	
			σ	0.970	0.979	0.93%	± 5	
	850MHz	22	εr	55.15	54.87	-0.51%	± 5	
			σ	0.988	0.999	1.11%	± 5	
1750MHz (Body)	1700MHz	22	εr	53.56	54.19	1.18%	± 5	2015/10/19
			σ	1.457	1.478	1.44%	± 5	
	1750MHz	22	εr	53.43	54.02	1.10%	± 5	
			σ	1.488	1.522	2.29%	± 5	
	1760MHz	22	εr	53.41	53.98	1.07%	± 5	
			σ	1.495	1.525	2.01%	± 5	
1750MHz (Body)	1700MHz	22	εr	53.56	54.19	1.18%	± 5	2015/11/04
			σ	1.457	1.478	1.44%	± 5	
	1750MHz	22	εr	53.43	54.02	1.10%	± 5	
			σ	1.488	1.522	2.29%	± 5	
	1760MHz	22	εr	53.41	53.98	1.07%	± 5	
			σ	1.495	1.525	2.01%	± 5	
1900MHz (Body)	1850MHz	22	εr	53.30	54.61	2.46%	± 5	2015/10/22
			σ	1.520	1.460	-3.95%	± 5	
	1900MHz	22	εr	53.30	54.36	1.99%	± 5	
			σ	1.520	1.502	-1.18%	± 5	
	1950MHz	22	εr	53.30	54.51	2.27%	± 5	
			σ	1.520	1.574	3.55%	± 5	
1900MHz (Body)	1850MHz	22	εr	53.30	54.61	2.46%	± 5	2015/11/04
			σ	1.520	1.460	-3.95%	± 5	
	1900MHz	22	εr	53.30	54.36	1.99%	± 5	
			σ	1.520	1.502	-1.18%	± 5	
	1950MHz	22	εr	53.30	54.51	2.27%	± 5	
			σ	1.520	1.574	3.55%	± 5	

Table 4. Measured Tissue dielectric parameters for body phantoms -2

Liquid Verify								
Ambient Temperature： 22 ± 2 °C；Relative Humidity：40 -70%								
Liquid Type	Frequency	Temp (°C)	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)	Measured Date
1900MHz (Body)	1850MHz	22	εr	53.30	54.61	2.46%	± 5	2015/11/11
			σ	1.520	1.460	-3.95%	± 5	
	1900MHz	22	εr	53.30	54.36	1.99%	± 5	
			σ	1.520	1.502	-1.18%	± 5	
	1950MHz	22	εr	53.30	54.51	2.27%	± 5	
			σ	1.520	1.574	3.55%	± 5	
1900MHz (Body)	1850MHz	22	εr	53.30	54.61	2.46%	± 5	2015/11/24
			σ	1.520	1.460	-3.95%	± 5	
	1900MHz	22	εr	53.30	54.36	1.99%	± 5	
			σ	1.520	1.502	-1.18%	± 5	
	1950MHz	22	εr	53.30	54.51	2.27%	± 5	
			σ	1.520	1.574	3.55%	± 5	
2300MHz (Body)	2250MHz	22	εr	52.97	52.36	-1.15%	± 5	2015/12/04
			σ	1.759	1.694	-3.70%	± 5	
	2300MHz	22	εr	52.90	52.03	-1.65%	± 5	
			σ	1.807	1.738	-3.82%	± 5	
	2350MHz	22	εr	52.83	52.15	-1.29%	± 5	
			σ	1.854	1.838	-0.86%	± 5	
2450MHz (Body)	2400MHz	22	εr	52.77	51.25	-2.88%	± 5	2015/11/12
			σ	1.902	1.882	-1.05%	± 5	
	2450MHz	22	εr	52.70	51.18	-2.88%	± 5	
			σ	1.950	1.962	0.62%	± 5	
	2500MHz	22	εr	52.64	50.99	-3.13%	± 5	
			σ	2.021	2.020	-0.05%	± 5	
2450MHz (Body)	2400MHz	22	εr	52.77	51.25	-2.88%	± 5	2015/11/25
			σ	1.902	1.882	-1.05%	± 5	
	2450MHz	22	εr	52.70	51.18	-2.88%	± 5	
			σ	1.950	1.962	0.62%	± 5	
	2500MHz	22	εr	52.64	50.99	-3.13%	± 5	
			σ	2.021	2.020	-0.05%	± 5	

Table 5. Measured Tissue dielectric parameters for body phantoms -3

Liquid Verify								
Ambient Temperature： 22 ± 2 °C；Relative Humidity：40 -70%								
Liquid Type	Frequency	Temp (°C)	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)	Measured Date
2600MHz (Body)	2500MHz	22	εr	52.64	51.26	-2.62%	± 5	2015/10/20
			σ	2.021	2.084	3.12%	± 5	
	2550MHz	22	εr	52.57	51.13	-2.74%	± 5	
			σ	2.092	2.152	2.87%	± 5	
	2600MHz	22	εr	52.51	50.75	-3.35%	± 5	
			σ	2.163	2.193	1.39%	± 5	
2600MHz (Body)	2500MHz	22	εr	52.64	51.26	-2.62%	± 5	2015/11/10
			σ	2.021	2.084	3.12%	± 5	
	2550MHz	22	εr	52.57	51.13	-2.74%	± 5	
			σ	2.092	2.152	2.87%	± 5	
	2600MHz	22	εr	52.51	50.75	-3.35%	± 5	
			σ	2.163	2.193	1.39%	± 5	
5200MHz (Body)	5150MHz	22	εr	49.08	47.89	-2.43%	± 5	2015/11/12
			σ	5.241	5.460	4.18%	± 5	
	5200MHz	22	εr	49.01	47.76	-2.55%	± 5	
			σ	5.299	5.520	4.17%	± 5	
	5250MHz	22	εr	48.95	47.63	-2.70%	± 5	
			σ	5.358	5.550	3.58%	± 5	
5200MHz (Body)	5150MHz	22	εr	49.08	47.89	-2.43%	± 5	2015/11/25
			σ	5.241	5.460	4.18%	± 5	
	5200MHz	22	εr	49.01	47.76	-2.55%	± 5	
			σ	5.299	5.520	4.17%	± 5	
	5250MHz	22	εr	48.95	47.63	-2.70%	± 5	
			σ	5.358	5.550	3.58%	± 5	
5800MHz (Body)	5750MHz	22	εr	48.27	46.54	-3.58%	± 5	2015/11/12
			σ	5.942	6.210	4.51%	± 5	
	5800MHz	22	εr	48.20	46.40	-3.73%	± 5	
			σ	6.000	6.270	4.50%	± 5	
	5850MHz	22	εr	48.20	46.35	-3.84%	± 5	
			σ	6.000	6.290	4.83%	± 5	

Table 6. Measured Tissue dielectric parameters for body phantoms -4

Liquid Verify								
Ambient Temperature： 22 ± 2 °C；Relative Humidity：40 -70%								
Liquid Type	Frequency	Temp (°C)	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)	Measured Date
5800MHz (Body)	5750MHz	22	εr	48.27	46.54	-3.58%	± 5	2015/11/25
			σ	5.942	6.210	4.51%	± 5	
	5800MHz	22	εr	48.20	46.40	-3.73%	± 5	
			σ	6.000	6.270	4.50%	± 5	
	5850MHz	22	εr	48.20	46.35	-3.84%	± 5	
			σ	6.000	6.290	4.83%	± 5	

Table 7. Measured Tissue dielectric parameters for body phantoms -5

7.3 Verification Summary

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of ± 7%. The verification was performed at 750, 835, 1750, 1900 and 2450MHz.

Mixture Type	Frequency (MHz)	Power	SAR_{1g} (W/Kg)	SAR_{10g} (W/Kg)	Drift (dB)	Difference percentage		Probe	Dipole	1W Target		Date
						1g	10g	Model / Serial No.	Model / Serial No.	SAR_{1g} (mW/g)	SAR_{10g} (mW/g)	
Body	750	250 mW	2.28	1.51	0	3.40%	0.50%	EX3DV4-SN3847	D750V3-SN1004	8.82	6.01	Oct. 21, 2015
		Normalize to 1 Watt	9.12	6.04								
Body	750	250 mW	2.24	1.48	-0.01	1.60%	-1.50%	EX3DV4-SN3847	D750V3-SN1004	8.82	6.01	Nov. 10, 2015
		Normalize to 1 Watt	8.96	5.92								
Body	835	250 mW	2.41	1.58	-0.01	-1.30%	-2.20%	EX3DV4-SN3847	D835V2-SN4d082	9.77	6.46	Oct. 23, 2015
		Normalize to 1 Watt	9.64	6.32								
Body	835	250 mW	2.44	1.6	0.01	-0.10%	-0.90%	EX3DV4-SN3847	D835V2-SN4d082	9.77	6.46	Nov. 05, 2015
		Normalize to 1 Watt	9.76	6.40								
Body	835	250 mW	2.41	1.58	-0.08	-1.30%	-2.20%	EX3DV4-SN3847	D835V2-SN4d082	9.77	6.46	Nov. 09, 2015
		Normalize to 1 Watt	9.64	6.32								
Body	835	250 mW	2.52	1.65	-0.05	3.20%	2.20%	EX3DV4-SN3847	D835V2-SN4d082	9.77	6.46	Nov. 24, 2015
		Normalize to 1 Watt	10.08	6.60								
Body	1750	250 mW	9.41	4.86	-0.01	0.10%	-4.70%	EX3DV4-SN3847	D1750V2-SN1023	37.60	20.40	Oct. 19, 2015
		Normalize to 1 Watt	37.64	19.44								
Body	1750	250 mW	9.53	4.9	-0.06	1.40%	-3.90%	EX3DV4-SN3847	D1750V2-SN1023	37.60	20.40	Nov. 04, 2015
		Normalize to 1 Watt	38.12	19.60								
Body	1900	250 mW	10	5.13	0.03	-0.20%	-2.70%	EX3DV4-SN3847	D1900V2-SN5d111	40.10	21.10	Oct. 22, 2015
		Normalize to 1 Watt	40.00	20.52								
Body	1900	250 mW	10.1	5.14	0.01	0.70%	-2.60%	EX3DV4-SN3847	D1900V2-SN5d111	40.10	21.10	Nov. 04, 2015
		Normalize to 1 Watt	40.40	20.56								
Body	1900	250 mW	9.99	5.12	-0.01	-0.30%	-2.90%	EX3DV4-SN3847	D1900V2-SN5d111	40.10	21.10	Nov. 11, 2015
		Normalize to 1 Watt	39.96	20.48								
Body	1900	250 mW	9.94	5.11	-0.12	-0.80%	-3.10%	EX3DV4-SN3847	D1900V2-SN5d111	40.10	21.10	Nov. 24, 2015
		Normalize to 1 Watt	39.76	20.44								
Body	2300	250 mW	11.9	5.75	-0.09	-4.60%	-3.80%	EX3DV4-SN3847	D2300V2-SN1005	49.90	23.90	Dec. 04, 2015
		Normalize to 1 Watt	47.60	23.00								

Mixture Type	Frequency (MHz)	Power	SAR_{1g} (W/Kg)	SAR_{10g} (W/Kg)	Drift (dB)	Difference percentage		Probe	Dipole	1W Target		Date
						1g	10g	Model / Serial No.	Model / Serial No.	SAR_{1g} (mW/g)	SAR_{10g} (mW/g)	
Body	2450	250 mW	13.5	6.29	-0.03	2.10%	3.10%	EX3DV4-SN3847	D2450V2-SN712	52.90	24.40	Nov. 12, 2015
		Normalize to 1 Watt	54.00	25.16								
Body	2450	250 mW	13.2	6.22	-0.09	-0.20%	2.00%	EX3DV4-SN3847	D2450V2-SN712	52.90	24.40	Nov. 25, 2015
		Normalize to 1 Watt	52.80	24.88								
Body	2600	250 mW	14.8	6.5	-0.19	4.20%	2.00%	EX3DV4-SN3847	D2600V2-SN1058	56.80	25.50	Oct. 20, 2015
		Normalize to 1 Watt	59.20	26.00								
Body	2600	250 mW	14.6	6.3	-0.02	2.80%	-1.20%	EX3DV4-SN3847	D2600V2-SN1058	56.80	25.50	Nov. 10, 2015
		Normalize to 1 Watt	58.40	25.20								
Body	5200	100 mW	7.81	2.19	0.15	-0.90%	-1.40%	EX3DV4-SN3847	D5200V2-SN1021	78.80	22.20	Nov. 12, 2015
		Normalize to 1 Watt	78.10	21.90								
Body	5200	100 mW	7.87	2.23	0.12	-0.10%	0.50%	EX3DV4-SN3847	D5200V2-SN1021	78.80	22.20	Nov. 25, 2015
		Normalize to 1 Watt	78.70	22.30								
Body	5800	100 mW	7.66	2.13	0.14	-1.30%	-1.40%	EX3DV4-SN3847	D5800V2-SN1021	77.60	21.60	Nov. 12, 2015
		Normalize to 1 Watt	76.60	21.30								
Body	5800	100 mW	7.57	2.09	0.08	-2.40%	-3.20%	EX3DV4-SN3847	D5800V2-SN1021	77.60	21.60	Nov. 25, 2015
		Normalize to 1 Watt	75.70	20.90								

7.4 Validation Summary

Per FCC KDB 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in IEEE 1528-2013 and FCC KDB 865664 D01v01r04. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters as below.

Probe Type Model / Serial No.	Prob Cal. Point (MHz)	Head / Body	Cond.	Perm.	CW Validation			Mod. Validation			Date
			εr	σ	Sensitivity	Probe Linearity	Probe Isotropy	Mod. Type	Duty Factor	PAR	
EX3DV4-SN3847	750	Body	54.27	0.985	Pass	Pass	Pass	QPSK	Pass	N/A	Oct. 21, 2015
EX3DV4-SN3847	750	Body	54.27	0.985	Pass	Pass	Pass	QPSK	Pass	N/A	Nov. 10, 2015
EX3DV4-SN3847	835	Body	54.85	0.979	Pass	Pass	Pass	QPSK	Pass	N/A	Oct. 23, 2015
EX3DV4-SN3847	835	Body	54.85	0.979	Pass	Pass	Pass	QPSK	Pass	N/A	Nov. 05, 2015
EX3DV4-SN3847	835	Body	54.85	0.979	Pass	Pass	Pass	QPSK/ RMC-12.2K	Pass	N/A	Nov. 09, 2015
EX3DV4-SN3847	835	Body	54.85	0.979	Pass	Pass	Pass	QPSK	Pass	N/A	Nov. 24, 2015
EX3DV4-SN3847	1750	Body	54.02	1.522	Pass	Pass	Pass	QPSK	Pass	N/A	Oct. 19, 2015
EX3DV4-SN3847	1750	Body	54.02	1.522	Pass	Pass	Pass	QPSK	Pass	N/A	Nov. 04, 2015
EX3DV4-SN3847	1900	Body	54.36	1.502	Pass	Pass	Pass	QPSK	Pass	N/A	Oct. 22, 2015
EX3DV4-SN3847	1900	Body	54.36	1.502	Pass	Pass	Pass	QPSK	Pass	N/A	Nov. 04, 2015
EX3DV4-SN3847	1900	Body	54.36	1.502	Pass	Pass	Pass	RMC-12.2K	Pass	N/A	Nov. 11, 2015
EX3DV4-SN3847	1900	Body	54.36	1.502	Pass	Pass	Pass	QPSK	Pass	N/A	Nov. 24, 2015
EX3DV4-SN3847	2300	Body	52.03	1.738	Pass	Pass	Pass	QPSK	Pass	N/A	Dec. 04, 2015
EX3DV4-SN3847	2450	Body	51.18	1.962	Pass	Pass	Pass	DSSS	N/A	Pass	Nov. 12, 2015
EX3DV4-SN3847	2450	Body	51.18	1.962	Pass	Pass	Pass	DSSS	N/A	Pass	Nov. 25, 2015
EX3DV4-SN3847	2600	Body	51.13	2.152	Pass	Pass	Pass	QPSK	Pass	N/A	Oct. 20, 2015
EX3DV4-SN3847	2600	Body	51.13	2.152	Pass	Pass	Pass	QPSK	Pass	N/A	Nov. 10, 2015
EX3DV4-SN3847	5200	Body	47.76	5.520	Pass	Pass	Pass	OFDM	N/A	Pass	Nov. 12, 2015
EX3DV4-SN3847	5200	Body	47.76	5.520	Pass	Pass	Pass	OFDM	N/A	Pass	Nov. 25, 2015
EX3DV4-SN3847	5800	Body	46.40	6.270	Pass	Pass	Pass	OFDM	N/A	Pass	Nov. 12, 2015
EX3DV4-SN3847	5800	Body	46.40	6.270	Pass	Pass	Pass	OFDM	N/A	Pass	Nov. 25, 2015

8. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1004	Jul. 06, 2015	Jul. 06, 2016
SPEAG	835MHz System Validation Kit	D835V2	4d082	Jul. 06, 2015	Jul. 06, 2016
SPEAG	1750MHz System Validation Kit	D1750V2	1023	Jun. 23, 2015	Jun. 23, 2016
SPEAG	1900MHz System Validation Kit	D1900V2	5d111	Jul. 07, 2015	Jul. 07, 2016
SPEAG	2300MHz System Validation Kit	D2300V2	1005	Oct. 08, 2015	Oct. 08, 2016
SPEAG	2450MHz System Validation Kit	D2450V2	712	Mar. 12, 2015	Mar. 12, 2016
SPEAG	2600MHz System Validation Kit	D2600V2	1058	Jun. 19, 2015	Jun. 19, 2016
SPEAG	5GHz System Validation Kit	D5GHZV2	1021	Mar. 17, 2015	Mar. 17, 2016
SPEAG	Dosimetric E-Field Probe	EX3DV4	3847	Jan. 30, 2015	Jan. 30, 2016
SPEAG	Data Acquisition Electronics	DAE4	541	Feb. 03, 2015	Feb. 03, 2016
SPEAG	Device Holder	N/A	N/A	NCR	
SPEAG	Measurement Server	SE UMS 011 AA	1025	NCR	
SPEAG	Phantom	QDOVA002AA	TP-1133	NCR	
SPEAG	Robot	Staubli TX90XL	F07/564ZA1/C/01	NCR	
SPEAG	Software	DASY52 V52.8 (8)	N/A	NCR	
SPEAG	Software	SEMCAD X V14.6.10 (7331)	N/A	NCR	
Agilent	Dielectric Probe Kit	85070C	US99360094	NCR	
Agilent	ENA Series Network Analyzer	E5071B	MY42404655	Apr. 10, 2015	Apr. 10, 2016
R&S	Power Sensor	NRP-Z22	100179	Jun. 01, 2015	Jun. 01, 2016
Agilent	Power Sensor	8481H	3318A20779	Jun. 15, 2015	Jun. 15, 2016
Agilent	Power Meter	EDM Series E4418B	GB40206143	Jun. 15, 2015	Jun. 15, 2016
Anritsu	Power Meter	ML2495A	1135009	Aug. 24, 2015	Aug. 24, 2016
Agilent	MXF-G-B RF Vector Signal Generator	N5182B	MY53050382	May 28, 2015	May 28, 2016
Agilent	Dual Directional Coupler	778D	50334	NCR	
Mini-Circuits	Power Amplifier	ZHL-42W-SMA	D111103#5	NCR	
Mini-Circuits	Power Amplifier	ZVE-8G-SMA	D042005 671800514	NCR	
Aisi	Attenuator	IEAT 3dB	N/A	NCR	

Table 8. Test Equipment List

9. Measurement Uncertainty

Measurement uncertainties in SAR measurements are difficult to quantify due to several variables including biological, physiological, and environmental. However, we estimate the measurement uncertainties in SAR_{1g} to be less than ±21.76 % for 300MHz ~3GHz and 3GHz ~ 6GHz ±25.68 %〔8〕.

According to Std. C95.3〔9〕, the overall uncertainties are difficult to assess and will vary with the type of meter and usage situation. However, accuracy's of ±1 to 3 dB can be expected in practice, with greater uncertainties in near-field situations and at higher frequencies (shorter wavelengths), or areas where large reflecting objects are present. Under optimum measurement conditions, SAR measurement uncertainties of at least ±2dB can be expected.

Uncertainty of a Measure SAR of EUT with DASY System

Item	Uncertainty Component	Uncertainty Value	Prob. Dist	Div.	c_i (1g)	c_i (10g)	Std. Unc. （1-g）	Std. Unc. （10-g）	v_i or V_{eff}
Measurement System									
u1	Probe Calibration (k=1)	±6.0%	Normal	1	1	1	±6.0%	±6.0%	∞
u2	Axial Isotropy	±4.7%	Rectangular	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9%	∞
u3	Hemispherical Isotropy	±9.6%	Rectangular	$\sqrt{3}$	0.7	0.7	±3.9%	±3.9%	
u4	Boundary Effect	±1.0%	Rectangular	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
u5	Linearity	±4.7%	Rectangular	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
u6	System Detection Limit	±1.0%	Rectangular	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
u7	Readout Electronics	±0.3%	Normal	1	1	1	±0.3%	±0.3%	∞
u8	Response Time	±0.8%	Rectangular	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
u9	Integration Time	±1.9%	Rectangular	$\sqrt{3}$	1	1	±1.1%	±1.1%	∞
u10	RF Ambient Conditions	±3.0%	Rectangular	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
u11	RF Ambient Reflections	±3.0%	Rectangular	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
u12	Probe Positioner Mechanical Tolerance	±0.4%	Rectangular	$\sqrt{3}$	1	1	±0.2%	±0.2%	∞
u13	Probe Positioning with respect to Phantom Shell	±2.9%	Rectangular	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
u14	Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	±1.0%	Rectangular	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Test sample Related									
u15	Test sample Positioning	±3.6%	Normal	1	1	1	±3.6%	±3.6%	89
u16	Device Holder Uncertainty	±2.7%	Normal	1	1	1	±2.7%	±2.7%	5
u17	Output Power Variation - SAR drift measurement	±5.0%	Rectangular	$\sqrt{3}$	1	1	±2.9%	±2.9%	∞
Phantom and Tissue Parameters									
u18	Phantom Uncertainty (shape and thickness tolerances)	±4.0%	Rectangular	$\sqrt{3}$	1	1	±2.3%	±2.3%	∞
u19	Liquid Conductivity - deviation from target values	±5.0%	Rectangular	$\sqrt{3}$	0.64	0.43	±1.8%	±1.2%	∞
u20	Liquid Conductivity - measurement uncertainty	±2.5%	Normal	1	0.64	0.43	±1.6%	±1.08%	69
u21	Liquid Permittivity - deviation from target values	±5.0%	Rectangular	$\sqrt{3}$	0.6	0.49	±1.7%	±1.4%	∞
u22	Liquid Permittivity - measurement uncertainty	±2.5%	Normal	1	0.6	0.49	±1.5%	±1.23%	69
Combined standard uncertainty			RSS				±10.88%	±10.66%	313
Expanded uncertainty (95% CONFIDENCE LEVEL)			k=2				±21.76%	±21.31%	

Table 9. Uncertainty Budget for frequency range 300MHz to 3GHz

Uncertainty of a Measure SAR of EUT with DASY System

Item	Uncertainty Component	Uncertainty Value	Prob. Dist	Div.	c_i (1g)	c_i (10g)	Std. Unc. （1-g）	Std. Unc. （10-g）	v_i or V_{eff}
Measurement System									
u1	Probe Calibration (k=1)	±6.5%	Normal	1	1	1	±6.5%	±6.5%	∞
u2	Axial Isotropy	±4.7%	Rectangular	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9%	∞
u3	Hemispherical Isotropy	±9.6%	Rectangular	$\sqrt{3}$	0.7	0.7	±3.9%	±3.9%	
u4	Boundary Effect	±2.0%	Rectangular	$\sqrt{3}$	1	1	±1.2%	±1.2%	∞
u5	Linearity	±4.7%	Rectangular	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
u6	System Detection Limit	±1.0%	Rectangular	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
u7	Readout Electronics	±0.0%	Normal	1	1	1	±0.0%	±0.0%	∞
u8	Response Time	±0.8%	Rectangular	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
u9	Integration Time	±2.8%	Rectangular	$\sqrt{3}$	1	1	±2.8%	±2.8%	∞
u10	RF Ambient Conditions	±3.0%	Rectangular	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
u11	RF Ambient Reflections	±3.0%	Rectangular	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
u12	Probe Positioner Mechanical Tolerance	±0.7%	Rectangular	$\sqrt{3}$	1	1	±0.7%	±0.7%	∞
u13	Probe Positioning with respect to Phantom Shell	±9.9%	Rectangular	$\sqrt{3}$	1	1	±5.7%	±5.7%	∞
u14	Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	±3.0%	Rectangular	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Test sample Related									
u15	Test sample Positioning	±3.6%	Normal	1	1	1	±3.6%	±3.6%	89
u16	Device Holder Uncertainty	±2.7%	Normal	1	1	1	±2.7%	±2.7%	5
u17	Output Power Variation - SAR drift measurement	±5.0%	Rectangular	$\sqrt{3}$	1	1	±2.9%	±2.9%	∞
Phantom and Tissue Parameters									
u18	Phantom Uncertainty (shape and thickness tolerances)	±4.0%	Rectangular	$\sqrt{3}$	1	1	±2.3%	±2.3%	∞
u19	Liquid Conductivity - deviation from target values	±5.0%	Rectangular	$\sqrt{3}$	0.64	0.43	±1.8%	±1.2%	∞
u20	Liquid Conductivity - measurement uncertainty	±2.5%	Normal	1	0.64	0.43	±1.6%	±1.08%	69
u21	Liquid Permittivity - deviation from target values	±5.0%	Rectangular	$\sqrt{3}$	0.6	0.49	±1.7%	±1.4%	∞
u22	Liquid Permittivity - measurement uncertainty	±2.5%	Normal	1	0.6	0.49	±1.5%	±1.23%	69
Combined standard uncertainty			RSS				±12.84%	±12.65%	313
Expanded uncertainty (95% CONFIDENCE LEVEL)			k=2				±25.68%	±25.29%	

Table 10.　ncertainty Budget for frequency range 3GHz to 6GHz

10. Measurement Procedure

The measurement procedures are as follows:

1. For WLAN function, engineering testing software installed on Notebook can provide continuous transmitting signal.
2. Measure output power through RF cable and power meter
3. Set scan area, grid size and other setting on the DASY software
4. Find out the largest SAR result on these testing positions of each band
5. Measure SAR results for other channels in worst SAR testing position if the SAR of highest power channel is larger than 0.8 W/kg

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

1. Power reference measurement
2. Area scan
3. Zoom scan
4. Power drift measurement

10.1 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

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

10.2 Area & Zoom Scan Procedures

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 measures points and step size follow as below. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

Grid Type	Frequency		Step size (mm)			X*Y*Z (Point)	Cube size			Step size		
			X	Y	Z		X	Y	Z	X	Y	Z
uniform grid	≦ 3GHz	≦2GHz	≤ 8	≤ 8	≤ 5	5*5*7	32	32	30	8	8	5
		2G - 3G	≤ 5	≤ 5	≤ 5	7*7*7	30	30	30	5	5	5
	3 - 6GHz	3 - 4GHz	≤ 5	≤ 5	≤ 4	7*7*8	30	30	28	5	5	4
		4 - 5GHz	≤ 4	≤ 4	≤ 3	8*8*10	28	28	27	4	4	3
		5 - 6GHz	≤ 4	≤ 4	≤ 2	8*8*12	28	28	22	4	4	2

(Our measure settings are refer KDB Publication 865664 D01v01r04)

10.3 Volume Scan Procedures

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 DUT 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.

10.4 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.

10.5 Power Drift Monitoring

All SAR testing is under the DUT 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 DUT 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.

11. SAR Test Results Summary

11.1 Head Measurement SAR

Evaluated head SAR is not available.

11.2 Body Measurement SAR

Evaluated body SAR refers to Hot-spot mode measurement results.

11.3 Hot-spot mode Measurement SAR

1. If actual power less than tune-up power that Scaling SAR is required.
2. The formula of Reported SAR, that represent as below:
   Reported SAR = Original SAR * 10^[(Tune-up power - Actual power)/10]
3. If the WWAN Band Channel's Reported SAR 1g of the position is > 0.8 W/Kg, low, middle and high channel are supposed to be tested.(2G/3G/LTE).
4. Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge,middle and lower edge of each required test channel.
5. When the highest reported SAR for 1 RB and 50% RB allocation are > 0.8 W/kg,SAR is measured for the highest output power channel in 100%RB.
6. When the maximum output power in secondary mode is ≤ ¼ 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.
7. Require the middle channel to be tested first, if the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.
8. When the reported SAR of the highest measured maximum output power channel is ≤ 0.8 W/kg, no further SAR testing is required for IEEE 802.11b DSSS.
9. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg , SAR is not required for 2.4GHz OFDM configuration.
10. SAR for the initial test configuration is measured using the highest maximum output power channel.
11 When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power.
12. When multiple transmission modes (IEEE 802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., IEEE 802.11a is chosen over IEEE 802.11n then IEEE 802.11ac or IEEE 802.11g is chosen over IEEE 802.11n.
13 When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), 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.

Index.	Position	Band	Ch.	Data Rate or Sub-Test	Test Position	Spacing (mm)	SAR 1g (W/kg)	Power Drift	Burst Avg Power	Max tune-up	Reported SAR 1g\ (W/kg)
#89	Flat	GPRS 850	190	3D2U	1	10	0.615	-0.04	32.1	33	0.76
#90	Flat		190	3D2U	2	10	0.606	-0.03	32.1	33	0.75
#87	Flat		190	3D2U	3	10	0.377	0.04	32.1	33	0.46
#88	Flat		190	3D2U	4	10	0.401	-0.02	32.1	33	0.49
#86	Flat		190	3D2U	5	10	0.124	0.09	32.1	33	0.15
#128	Flat		190	3D2U	6	10	0.045	-0.07	32.1	33	0.06
#62	Flat	GPRS 1900	512	3D2U	1	10	0.869	-0.06	28.97	30.5	1.24
#61	Flat		661	3D2U	1	10	0.83	-0.05	28.78	30.5	1.23
#63	Flat		810	3D2U	1	10	0.769	-0.13	28.62	30.5	1.19
#64	Flat		661	3D2U	2	10	0.502	-0.09	28.78	30.5	0.75
#65	Flat		661	3D2U	3	10	0.149	0.04	28.78	30.5	0.22
#66	Flat		661	3D2U	4	10	0.458	0.01	28.78	30.5	0.68
#67	Flat		661	3D2U	5	10	0.454	0.08	28.78	30.5	0.68
#127	Flat		661	3D2U	6	10	0.249	-0.12	28.78	30.5	0.37

Index.	Position	Band	Ch.	Data Rate or Sub-Test	Test Position	Spacing (mm)	SAR 1g (W/kg)	Power Drift	Burst Avg Power	Max tune-up	Reported SAR 1g\ (W/kg)
#110	Flat	WCDMA Band II	9262	RMC12.2K	1	10	0.782	-0.09	21.75	23	1.04
#109	Flat		9400	RMC12.2K	1	10	0.789	-0.08	21.87	23	1.02
#111	Flat		9538	RMC12.2K	1	10	0.79	-0.09	21.69	23	1.07
#112	Flat		9400	RMC12.2K	2	10	0.461	-0.05	21.87	23	0.60
#113	Flat		9400	RMC12.2K	3	10	0.146	0.14	21.87	23	0.19
#114	Flat		9400	RMC12.2K	4	10	0.527	0.01	21.87	23	0.68
#115	Flat		9400	RMC12.2K	5	10	0.495	0.05	21.87	23	0.64
#100	Flat	WCDMA Band V	4132	RMC12.2K	1	10	0.741	-0.03	22.85	24	0.97
#99	Flat		4183	RMC12.2K	1	10	0.851	-0.02	22.91	24	1.09
#101	Flat		4233	RMC12.2K	1	10	0.839	-0.02	22.78	24	1.11
#103	Flat		4132	RMC12.2K	2	10	0.695	0.02	22.85	24	0.91
#102	Flat		4183	RMC12.2K	2	10	0.876	0.01	22.91	24	1.13
#104	Flat		4233	RMC12.2K	2	10	0.873	0.02	22.78	24	1.16
#105	Flat		4183	RMC12.2K	3	10	0.428	0.01	22.91	24	0.55
#106	Flat		4183	RMC12.2K	4	10	0.408	0.01	22.91	24	0.52
#107	Flat		4183	RMC12.2K	5	10	0.142	-0.09	22.91	24	0.18

Index.	Position	Band	Ch.	BW (MHz)	RB Size	RB Offset	Test Position	Spacing (mm)	SAR 1g (W/Kg)	Power Drift	Burst Avg Power	Max tune-up	Reported SAR 1g\ (W/Kg)
#91	Flat	LTE Band 2 (QPSK)	18700	20M	1	0	1	10	0.731	0.07	22.12	23.5	1.00
#51	Flat		18900	20M	1	0	1	10	0.669	0.08	22.03	23.5	0.94
#92	Flat		19100	20M	1	0	1	10	0.704	0.08	21.95	23.5	1.01
#53	Flat		18900	20M	1	0	2	10	0.426	-0.05	22.03	23.5	0.60
#55	Flat		18900	20M	1	0	3	10	0.124	0.08	22.03	23.5	0.17
#57	Flat		18900	20M	1	0	4	10	0.47	-0.01	22.03	23.5	0.66
#59	Flat		18900	20M	1	0	5	10	0.465	0.05	22.03	23.5	0.65
#52	Flat		18900	20M	50	0	1	10	0.525	0.07	21.04	22.5	0.74
#54	Flat		18900	20M	50	0	2	10	0.331	-0.04	21.04	22.5	0.46
#56	Flat		18900	20M	50	0	3	10	0.097	0.11	21.04	22.5	0.14
#58	Flat		18900	20M	50	0	4	10	0.369	-0.03	21.04	22.5	0.52
#60	Flat		18900	20M	50	0	5	10	0.353	0.07	21.04	22.5	0.49
#93	Flat		18700	20M	100	0	1	10	0.594	0.07	20.98	22.5	0.84
#95	Flat	LTE Band 4 (QPSK)	20050	20M	1	0	1	10	0.86	-0.03	21.98	23.5	1.22
#1	Flat		20175	20M	1	0	1	10	0.745	-0.01	22.05	23.5	1.04
#96	Flat		20300	20M	1	0	1	10	0.95	-0.02	22.1	23.5	1.31
#4	Flat		20175	20M	1	0	2	10	0.434	0.01	22.05	23.5	0.61
#5	Flat		20175	20M	1	0	3	10	0.109	0.08	22.05	23.5	0.15
#8	Flat		20175	20M	1	0	4	10	0.396	0.03	22.05	23.5	0.55
#9	Flat		20175	20M	1	0	5	10	0.542	0.03	22.05	23.5	0.76
#2	Flat		20175	20M	50	0	1	10	0.617	-0.03	21.45	22.5	0.79
#3	Flat		20175	20M	50	0	2	10	0.362	-0.01	21.45	22.5	0.46
#6	Flat		20175	20M	50	0	3	10	0.088	-0.02	21.45	22.5	0.11
#7	Flat		20175	20M	50	0	4	10	0.329	0.05	21.45	22.5	0.42
#10	Flat		20175	20M	50	0	5	10	0.43	0.05	21.45	22.5	0.55
#97	Flat		20300	20M	100	0	1	10	0.781	-0.03	21	22.5	1.10

Index.	Position	Band	Ch.	BW (MHz)	RB Size	RB Offset	Test Position	Spacing (mm)	SAR 1g (W/Kg)	Power Drift	Burst Avg Power	Max tune-up	Reported SAR 1g\ (W/Kg)
#70	Flat	LTE Band 5 (QPSK)	20450	10M	1	0	1	10	0.717	0	23	24	0.90
#69	Flat		20525	10M	1	0	1	10	0.796	-0.08	23.17	24	0.96
#71	Flat		20600	10M	1	0	1	10	0.882	0	23.44	24	1.00
#74	Flat		20450	10M	1	0	2	10	0.665	0	23	24	0.84
#73	Flat		20525	10M	1	0	2	10	0.771	0.03	23.17	24	0.93
#75	Flat		20600	10M	1	0	2	10	0.897	0.03	23.44	24	1.02
#79	Flat		20525	10M	1	0	3	10	0.423	-0.01	23.17	24	0.51
#81	Flat		20525	10M	1	0	4	10	0.362	-0.13	23.17	24	0.44
#83	Flat		20525	10M	1	0	5	10	0.141	-0.07	23.17	24	0.17
#78	Flat		20525	10M	25	0	1	10	0.655	-0.01	22.7	23.5	0.79
#77	Flat		20525	10M	25	0	2	10	0.634	0.02	22.7	23.5	0.76
#80	Flat		20525	10M	25	0	3	10	0.351	-0.02	22.7	23.5	0.42
#82	Flat		20525	10M	25	0	4	10	0.311	0.04	22.7	23.5	0.37
#84	Flat		20525	10M	25	0	5	10	0.113	-0.06	22.7	23.5	0.14
#72	Flat		20600	10M	50	0	1	10	0.785	-0.03	22.77	23.5	0.93
#76	Flat		20600	10M	50	0	2	10	0.81	0.05	22.77	23.5	0.96
#12	Flat	LTE Band 7 (QPSK)	20850	20M	1	0	1	10	1.05	-0.09	22.43	22.5	1.07
#11	Flat		21100	20M	1	0	1	10	1.06	-0.09	22.39	22.5	1.09
#13	Flat		21350	20M	1	0	1	10	1	-0.06	21.98	22.5	1.13
#18	Flat		21100	20M	1	0	2	10	0.604	0.01	22.39	22.5	0.62
#20	Flat		21100	20M	1	0	3	10	0.061	0.19	22.39	22.5	0.06
#23	Flat		21100	20M	1	0	4	10	0.226	0.05	22.39	22.5	0.23
#25	Flat		20850	20M	1	0	5	10	1.35	-0.02	22.43	22.5	1.37
#24	Flat		21100	20M	1	0	5	10	1.36	0.02	22.39	22.5	1.40
#26	Flat		21350	20M	1	0	5	10	1.25	0.15	21.98	22.5	1.41
#15	Flat		20850	20M	50	0	1	10	0.822	-0.17	21.33	22	0.96
#16	Flat		21100	20M	50	0	1	10	0.806	-0.06	20.92	22	1.03
#14	Flat		21350	20M	50	0	1	10	0.747	-0.1	20.65	22	1.02
#19	Flat		21100	20M	50	0	2	10	0.391	0.03	20.92	22	0.50
#21	Flat		21100	20M	50	0	3	10	0.052	0.12	20.92	22	0.07
#22	Flat		21100	20M	50	0	4	10	0.213	-0.04	20.92	22	0.27
#28	Flat		20850	20M	50	0	5	10	1.11	0.02	21.33	22	1.30
#29	Flat		21100	20M	50	0	5	10	1.07	0.01	20.92	22	1.37
#27	Flat		21350	20M	50	0	5	10	0.957	0.03	20.65	22	1.31
#17	Flat		20850	20M	100	0	1	10	0.776	0.01	21.24	22	0.92
#30	Flat		20850	20M	100	0	5	10	0.994	0.01	21.24	22	1.18

Index.	Position	Band	Ch.	BW (MHz)	RB Size	RB Offset	Test Position	Spacing (mm)	SAR 1g (W/Kg)	Power Drift	Burst Avg Power	Max tune-up	Reported SAR 1g\ (W/Kg)
#33	Flat	LTE Band 12 (QPSK)	23060	10M	1	0	1	10	0.898	0.01	24.29	24.5	0.94
#32	Flat		23095	10M	1	0	1	10	0.958	0.16	24.37	24.5	0.99
#34	Flat		23130	10M	1	0	1	10	1.02	-0.08	24.28	24.5	1.07
#39	Flat		23060	10M	1	0	2	10	0.721	-0.02	24.29	24.5	0.76
#38	Flat		23095	10M	1	0	2	10	0.77	-0.09	24.37	24.5	0.79
#40	Flat		23130	10M	1	0	2	10	0.862	0.03	24.28	24.5	0.91
#42	Flat		23095	10M	1	0	3	10	0.415	-0.04	24.37	24.5	0.43
#44	Flat		23095	10M	1	0	4	10	0.442	0.01	24.37	24.5	0.46
#46	Flat		23095	10M	1	0	5	10	0.067	-0.08	24.37	24.5	0.07
#36	Flat		23060	10M	25	0	1	10	0.72	-0.01	23.26	24.5	0.96
#35	Flat		23095	10M	25	0	1	10	0.762	0.02	23.47	24.5	0.97
#37	Flat		23130	10M	25	0	1	10	0.824	-0.03	23.39	24.5	1.06
#41	Flat		23095	10M	25	0	2	10	0.644	-0.01	23.47	24.5	0.82
#43	Flat		23095	10M	25	0	3	10	0.32	-0.02	23.47	24.5	0.41
#45	Flat		23095	10M	25	0	4	10	0.356	-0.01	23.47	24.5	0.45
#47	Flat		23095	10M	25	0	5	10	0.052	-0.16	23.47	24.5	0.07
#48	Flat		23130	10M	50	0	1	10	0.874	0.04	23.26	24	1.04
#49	Flat		23130	10M	50	0	2	10	0.713	0.03	23.26	24	0.85
#129	Flat	LTE Band 30 (QPSK)	27710	10M	1	0	1	10	0.848	-0.04	23.9	24	0.87
#131	Flat		27710	10M	1	0	2	10	0.704	-0.01	23.9	24	0.72
#133	Flat		27710	10M	1	0	3	10	0.632	-0.09	23.9	24	0.65
#135	Flat		27710	10M	1	0	4	10	0.253	-0.02	23.9	24	0.26
#137	Flat		27710	10M	1	0	5	10	0.233	-0.09	23.9	24	0.24
#130	Flat		27710	10M	25	0	1	10	0.721	-0.02	22.8	23	0.76
#132	Flat		27710	10M	25	0	2	10	0.565	-0.1	22.8	23	0.59
#134	Flat		27710	10M	25	0	3	10	0.497	-0.09	22.8	23	0.52
#136	Flat		27710	10M	25	0	4	10	0.196	-0.01	22.8	23	0.21
#138	Flat		27710	10M	25	0	5	10	0.188	-0.08	22.8	23	0.20
#139	Flat		27710	10M	50	0	1	10	0.697	-0.01	22.56	23	0.77

Index.	Position	Band	Ch.	Data Rate or Sub-Test	Test Position	Spacing (mm)	Antenna	SAR 1g (W/Kg)	Power Drift	Burst Avg Power	Max tune-up	Reported SAR 1g\ (W/Kg)
#129	Flat	IEEE 802.11b	6	1M	2	10	Antenna0	0.007	-0.08	8.72	10	0.01
#117	Flat		6	1M	3	10	Antenna0	0.018	-0.03	8.72	10	0.02
#130	Flat		6	1M	5	10	Antenna0	0.003	0.01	8.72	10	0.00
#131	Flat		6	1M	2	10	Antenna1	0.007	-0.05	8.66	10	0.01
#118	Flat		6	1M	3	10	Antenna1	0.017	0.02	8.66	10	0.02
#132	Flat		6	1M	5	10	Antenna1	0.004	-0.06	8.66	10	0.01
#119	Flat	IEEE 802.11a	36	6M	1	10	Antenna0	0.056	-0.14	9.79	10	0.06
#123	Flat		161	6M	1	10	Antenna0	0.060	0.02	9.39	10	0.07
#133	Flat		36	6M	2	10	Antenna0	0.023	-0.08	9.79	10	0.02
#135	Flat		161	6M	2	10	Antenna0	0.018	-0.16	9.39	10	0.02
#120	Flat		36	6M	3	10	Antenna0	0.070	0.02	9.79	10	0.07
#124	Flat		161	6M	3	10	Antenna0	0.080	-0.14	9.39	10	0.09
#134	Flat		36	6M	5	10	Antenna0	0.014	-0.04	9.79	10	0.02
#136	Flat		161	6M	5	10	Antenna0	0.024	-0.1	9.39	10	0.03
#122	Flat		36	6M	1	10	Antenna1	0.047	-0.19	9.39	10	0.05
#126	Flat		165	6M	1	10	Antenna1	0.078	-0.14	9.16	10	0.10
#137	Flat		36	6M	2	10	Antenna1	0.037	0.05	9.39	10	0.04
#138	Flat		165	6M	2	10	Antenna1	0.005	0.04	9.16	10	0.01
#121	Flat		36	6M	3	10	Antenna1	0.097	-0.06	9.39	10	0.11
#125	Flat		165	6M	3	10	Antenna1	0.132	0.15	9.16	10	0.16
#139	Flat		36	6M	5	10	Antenna1	0.022	-0.16	9.39	10	0.03
#140	Flat		165	6M	5	10	Antenna1	0.013	-0.14	9.16	10	0.02

11.4 Extremity Measurement SAR

Evaluated extremity SAR is not available.

11.5 SAR Measurement Variability

Detailed evaluations please refer KDB 865664 on "SAR test reduction according to KDB" section.

Index.	Band	Ch.	Side to Phantom	Spacing (mm)	Number of times	SAR 1g (W/Kg)	Power Drift	Burst Avg Power	Max tune-up	Reported SAR 1g (W/Kg)	Repeated measure-ment Ratio
#68	GPRS 1900	512	1	10	1	0.888	-0.06	28.78	30.5	1.32	1.02 < 1.2

Note: 1. The original highest measured Reported SAR 1g is ≥ 0.80 W/kg, repeat that measurement once.
2. Perform a second repeated measurement the ratio of largest to smallest SAR for the original and first repeated measurements is < 1.2,the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit)

Index.	Band	Ch.	Side to Phantom	Spacing (mm)	Number of times	SAR 1g (W/Kg)	Power Drift	Burst Avg Power	Max tune-up	Reported SAR 1g (W/Kg)	Repeated measure-ment Ratio
#116	WCDMA Band II	9538	1	10	1	0.787	-0.12	21.69	23	1.06	1.00 < 1.2
#108	WCDMA Band V	4233	2	10	1	0.864	-0.02	22.78	24	1.14	1.01 < 1.2

Index.	Band	Ch.	BW (MHz)	RB Size	RB Offset	Side to Phantom	Spacing (mm)	Number of times	SAR 1g (W/Kg)	Power Drift	Burst Avg Power	Max tune-up	Reported SAR 1g (W/Kg)	Repeated measure-ment Ratio
#94	LTE Band 2 (QPSK)	19100	20	1	0	1	10	1	0.715	0.08	21.95	23.5	1.02	1.02<1.2
#98	LTE Band 4 (QPSK)	20300	20	1	0	1	10	1	0.953	-0.04	22.1	23.5	1.32	1.00<1.2
#85	LTE Band 5 (QPSK)	20600	10	1	0	2	10	1	0.902	0.03	23.44	24	1.03	1.01<1.2
#31	LTE Band 7 (QPSK)	21350	20	1	0	5	10	1	1.29	0.14	21.98	22.5	1.45	1.03<1.2
#50	LTE Band 12 (QPSK)	23130	20	1	0	1	10	1	1.07	0.01	24.28	24.5	1.13	1.05<1.2
#140	LTE Band 30 (QPSK)	27710	10	1	0	1	10	1	0.855	-0.01	23.9	24	0.88	1.01<1.2

11.6 Std. C95.1-1999 RF Exposure Limit

Human Exposure	Population Uncontrolled Exposure (W/kg) or (mW/g)	Occupational Controlled Exposure (W/kg) or (mW/g)
Spatial Peak SAR* (head)	1.60	8.00
Spatial Peak SAR** (Whole Body)	0.08	0.40
Spatial Peak SAR*** (Partial-Body)	1.60	8.00
Spatial Peak SAR**** (Hands / Feet / Ankle / Wrist)	4.00	20.00

Table 11. Safety Limits for Partial Body Exposure

Notes：

***** The Spatial Peak value of the SAR averaged over any 1 gram of tissue.
(defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

****** The Spatial Average value of the SAR averaged over the whole – body.

******* The Spatial Average value of the SAR averaged over the partial – body.

******** The Spatial Peak value of the SAR averaged over any 10 grams of tissue.
(defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Population / Uncontrolled Environments： are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational / Controlled Environments： are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

12. Conclusion

The SAR test values found for the portable mobile phone **Netgear Incorporated Trade Name：NETGEAR Model(s)：AC815S** is below the maximum recommended level of 1.6 W/kg (mW/g).

13. References

[1] Std. C95.1-1999, "*American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 300KHz to 100GHz",* New York.

[2] NCRP, National Council on Radiation Protection and Measurements, "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields", NCRP report NO. 86, 1986.

[3] T. Schmid, O. Egger, and N. Kuster, "Automatic E-field scanning system for dosimetric assessments", IEEE Transactions on Microwave Theory and Techniques, vol. 44, pp, 105-113, Jan. 1996.

[4] K. Pokovi ć, T. Schmid, and N. Kuster, "Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequency", in ICECOM'97, Dubrovnik, October 15-17, 1997, pp.120-124.

[5] K. Pokovi ć, T. Schmid, and N. Kuster, "E-field probe with improved isotropy in brain simulating liquids", in Proceedings of the ELMAR, Zadar, Croatia, 23-25 June, 1996, pp.172-175.

[6] N. Kuster, and Q. Balzano, "Energy absorption mechanism by biological bodies in the near field of dipole antennas above 300MHz", IEEE Transaction on Vehicular Technology, vol. 41, no. 1, Feb. 1992, pp. 17-23.

[7] Robert J. Renka, "Multivariate Interpolation Of Large Sets Of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988 , pp. 139-148.

[8] N. Kuster, R. Kastle, T. Schmid, Dosimetric evaluation of mobile communications equipment with known precision, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.

[9] Std. C95.3-1991, "IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave, New York: IEEE, Aug. 1992.

[10] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10KHz-300GHz, Jan. 1995.

[11] IEEE Std 1528™-2013 - IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head From Wireless Communications Devices: Measurement Techniques

Appendix A - System Performance Check

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 02:14:43

System Performance Check at 750MHz_20151021_Body

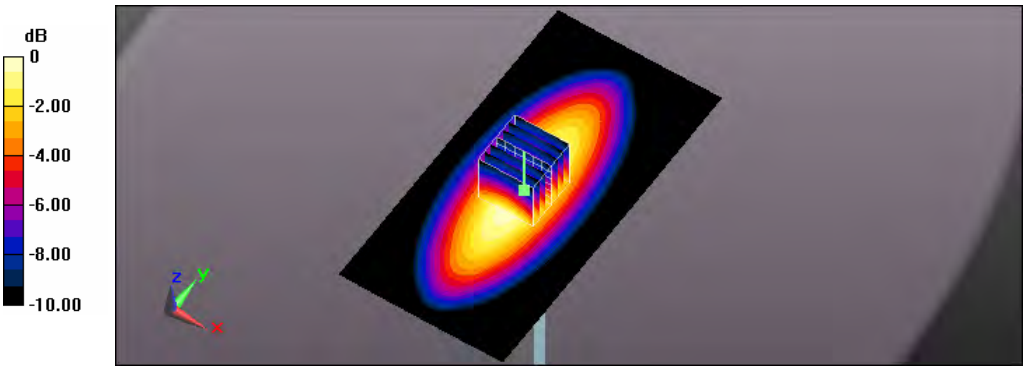
DUT: Dipole 750 MHz;Type: D750V3;Serial: D750V3 - SN:1004

Communication System: UID 0, CW (0);Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 1.011 S/m; ε_r = 54.582; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 750MHz/Area Scan (61x121x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.90 W/kg

System Performance Check at 750MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.37 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 3.40 W/kg
SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.51 W/kg
Maximum value of SAR (measured) = 2.89 W/kg



0 dB = 2.89 W/kg = 4.61 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/10Time: AM 12:23:36

System Performance Check at 750MHz_20151110_Body

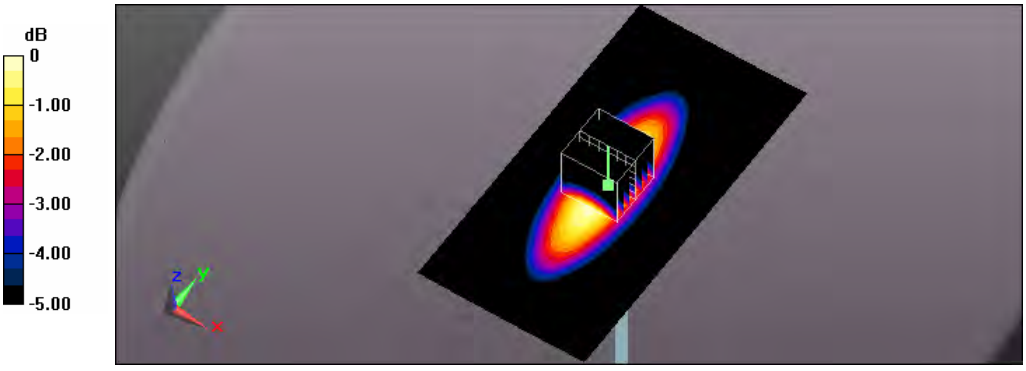
DUT: Dipole 750 MHz;Type: D750V3;Serial: D750V3 - SN:1004

Communication System: UID 0, CW (0);Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 1.011 S/m; ε_r = 54.582; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 750MHz/Area Scan (61x121x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.92 W/kg

System Performance Check at 750MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.81 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.33 W/kg
SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.48 W/kg
Maximum value of SAR (measured) = 2.83 W/kg



0 dB = 2.83 W/kg = 4.52 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 12:00:22

System Performance Check at 835MHz_20151023_Body

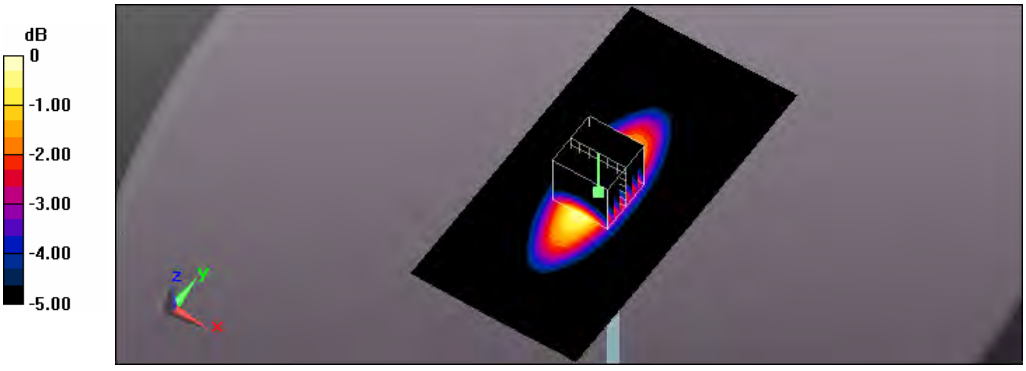
DUT: Dipole 835 MHz;Type: D835V2;Serial: D835V2 - SN:4d082

Communication System: UID 0, CW (0);Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.979 S/m; ε_r = 54.845; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 835MHz/Area Scan (61x121x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.07 W/kg

System Performance Check at 835MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.93 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.60 W/kg
SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.58 W/kg
Maximum value of SAR (measured) = 3.06 W/kg



0 dB = 3.06 W/kg = 4.86 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/5Time: AM 02:13:51

System Performance Check at 835MHz_20151105_Body

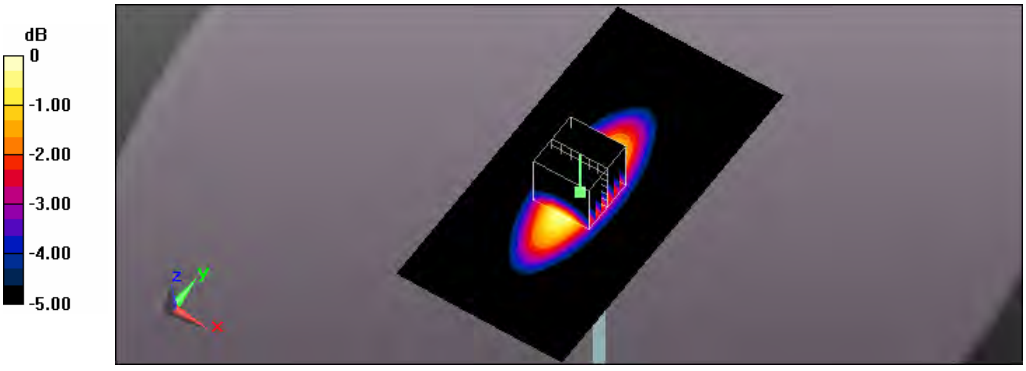
DUT: Dipole 835 MHz;Type: D835V2;Serial: D835V2 - SN:4d082

Communication System: UID 0, CW (0);Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.979 S/m; ε_r = 54.845; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 835MHz/Area Scan (61x121x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.10 W/kg

System Performance Check at 835MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.77 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.63 W/kg
SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.6 W/kg
Maximum value of SAR (measured) = 3.09 W/kg



0 dB = 3.09 W/kg = 4.90 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/9Time: AM 10:44:25

System Performance Check at 835MHz_20151109_Body

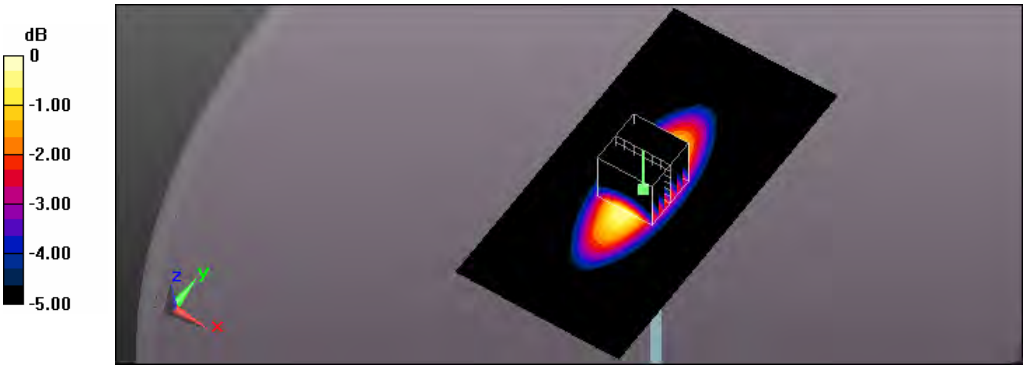
DUT: Dipole 835 MHz;Type: D835V2;Serial: D835V2 - SN:4d082

Communication System: UID 0, CW (0);Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.979 S/m; ε_r = 54.845; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 835MHz/Area Scan (61x121x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.10 W/kg

System Performance Check at 835MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 57.16 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 3.57 W/kg
SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.58 W/kg
Maximum value of SAR (measured) = 3.04 W/kg



0 dB = 3.04 W/kg = 4.83 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/24Time: PM 03:06:45

System Performance Check at 835MHz_20151124_Body

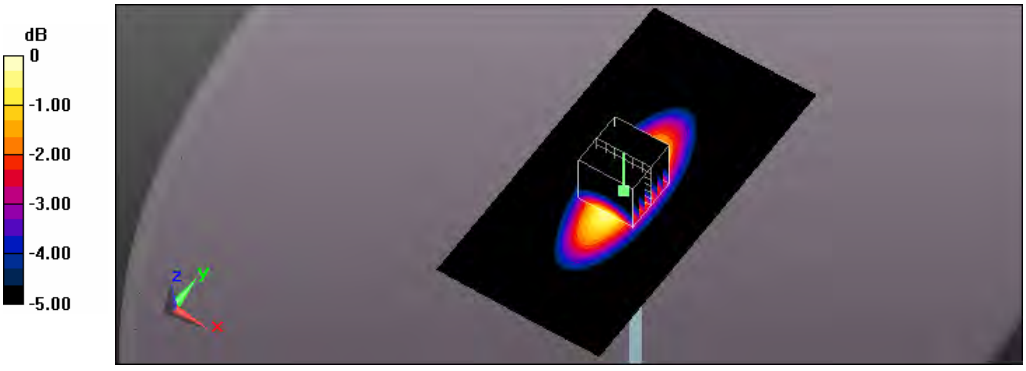
DUT: Dipole 835 MHz;Type: D835V2;Serial: D835V2 - SN:4d082

Communication System: UID 0, CW (0);Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.979 S/m; ε_r = 54.845; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 835MHz/Area Scan (61x121x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.18 W/kg

System Performance Check at 835MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 57.97 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 3.76 W/kg
SAR(1 g) = 2.52 W/kg; SAR(10 g) = 1.65 W/kg
Maximum value of SAR (measured) = 3.20 W/kg



0 dB = 3.20 W/kg = 5.05 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/19Time: PM 06:16:21

System Performance Check at 1750MHz_20151019_Body

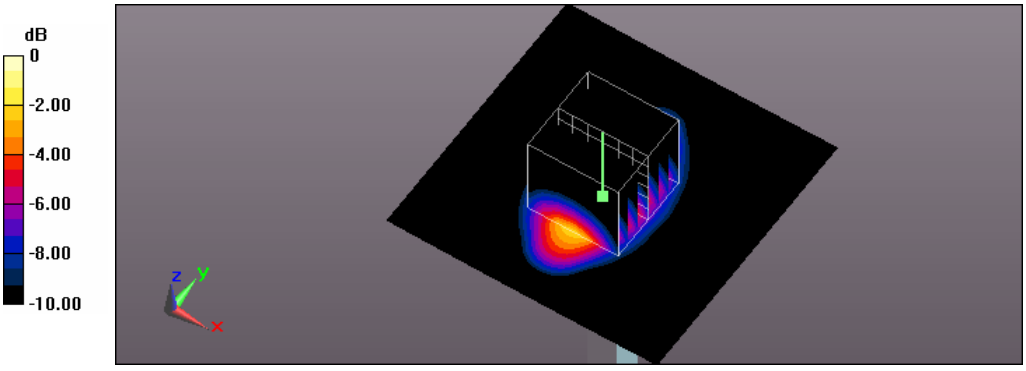
DUT: Dipole D1750V2_SN1023;Type: D1750V2;Serial: D1750V2 - SN:1023

Communication System: UID 0, CW (0);Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.522 S/m; ε_r = 54.021; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 1750MHz/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.6 W/kg

System Performance Check at 1750MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.61 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 17.1 W/kg
SAR(1 g) = 9.41 W/kg; SAR(10 g) = 4.86 W/kg
Maximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.5 W/kg = 11.30 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/4Time: PM 10:15:35

System Performance Check at 1750MHz_20151104_Body

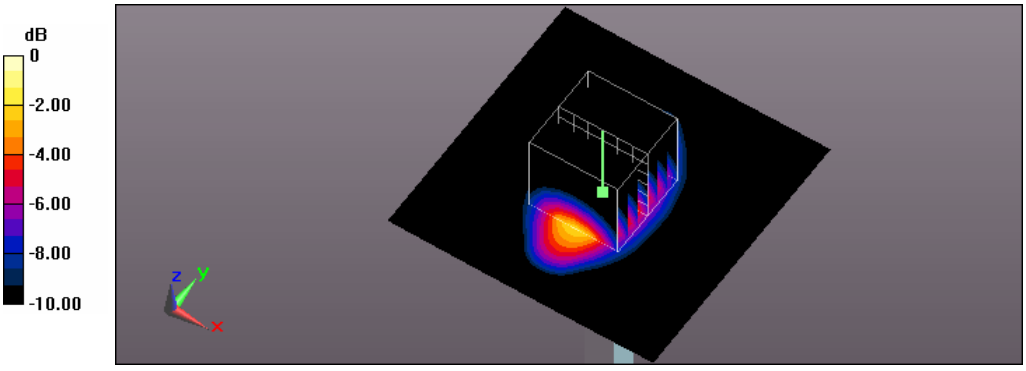
DUT: Dipole D1750V2_SN1023;Type: D1750V2;Serial: D1750V2 - SN:1023

Communication System: UID 0, CW (0);Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.522 S/m; ε_r = 54.021; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 1750MHz/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.5 W/kg

System Performance Check at 1750MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 96.79 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 17.5 W/kg
SAR(1 g) = 9.53 W/kg; SAR(10 g) = 4.9 W/kg
Maximum value of SAR (measured) = 13.8 W/kg



0 dB = 13.8 W/kg = 11.40 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 03:06:08

System Performance Check at 1900MHz_20151022_Body

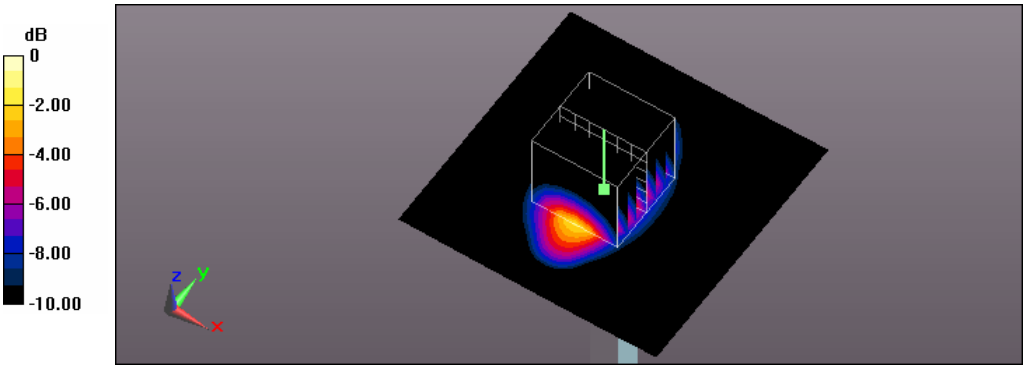
DUT: Dipole D1900V2_SN5d111;Type: D1900V2;Serial: D1900V2 - SN:5d111

Communication System: UID 0, CW (0);Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.502 S/m; ε_r = 54.362; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 1900MHz/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.5 W/kg

System Performance Check at 1900MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 98.60 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 18.5 W/kg
SAR(1 g) = 10 W/kg; SAR(10 g) = 5.13 W/kg
Maximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg = 11.61 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/4Time: PM 08:08:30

System Performance Check at 1900MHz_20151104_Body

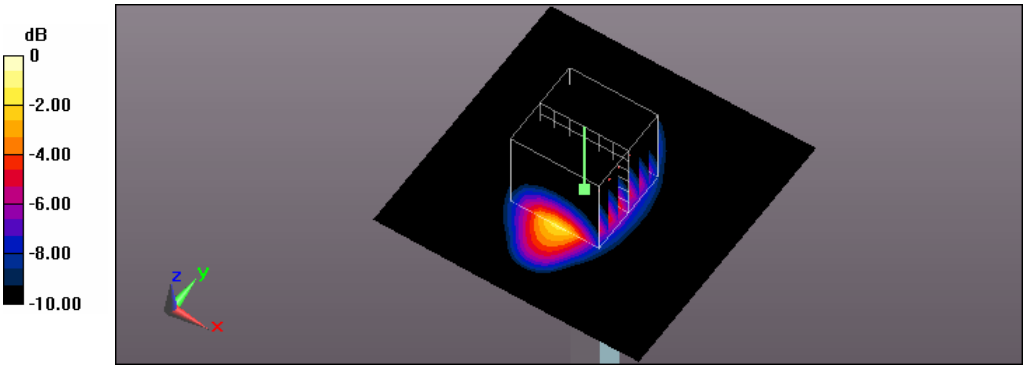
DUT: Dipole D1900V2_SN5d111;Type: D1900V2;Serial: D1900V2 - SN:5d111

Communication System: UID 0, CW (0);Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.502 S/m; ε_r = 54.362; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 1900MHz/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.7 W/kg

System Performance Check at 1900MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 99.79 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 18.7 W/kg
SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.14 W/kg
Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg = 11.64 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/11Time: AM 11:21:27

System Performance Check at 1900MHz_20151111_Body

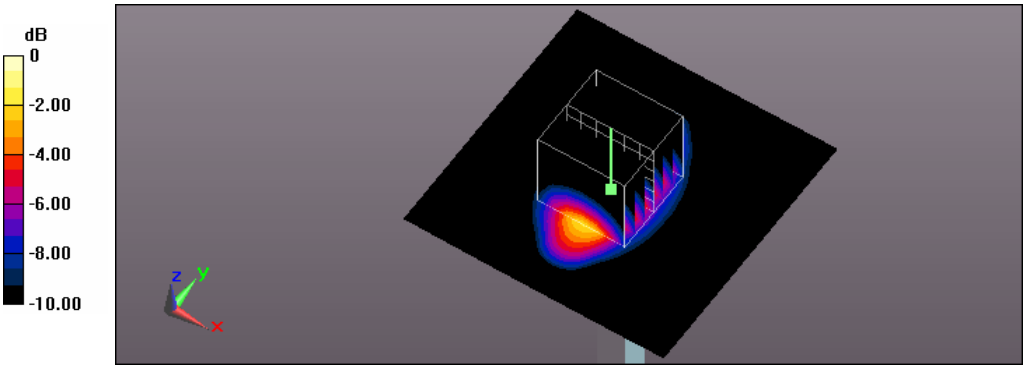
DUT: Dipole D1900V2_SN5d111;Type: D1900V2;Serial: D1900V2 - SN:5d111

Communication System: UID 0, CW (0);Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.502 S/m; ε_r = 54.362; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 1900MHz/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.5 W/kg

System Performance Check at 1900MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 99.28 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 18.5 W/kg
SAR(1 g) = 9.99 W/kg; SAR(10 g) = 5.12 W/kg
Maximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg = 11.61 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/24Time: AM 10:21:54

System Performance Check at 1900MHz_20151124_Body

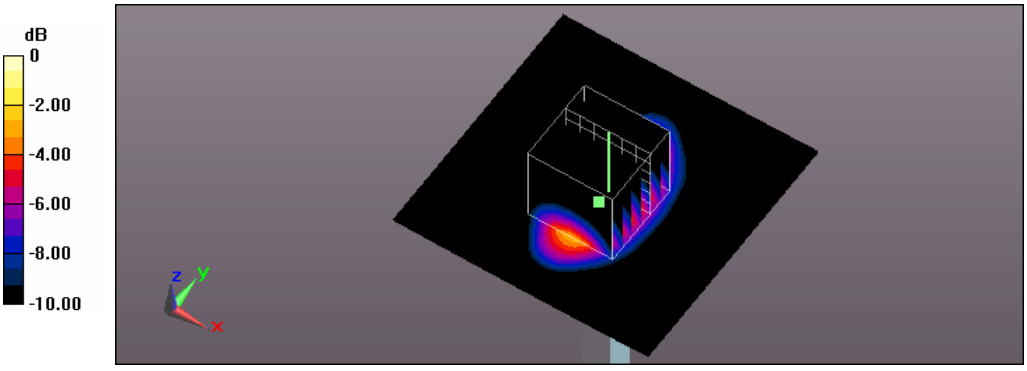
DUT: Dipole D1900V2_SN5d111;Type: D1900V2;Serial: D1900V2 - SN:5d111

Communication System: UID 0, CW (0);Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.502 S/m; ε_r = 54.362; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 1900MHz/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.7 W/kg

System Performance Check at 1900MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 98.48 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 18.2 W/kg
SAR(1 g) = 9.94 W/kg; SAR(10 g) = 5.11 W/kg
Maximum value of SAR (measured) = 14.4 W/kg



0 dB = 14.4 W/kg = 11.58 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: AM 11:14:55

System Performance Check at 2300MHz_20151204_Body

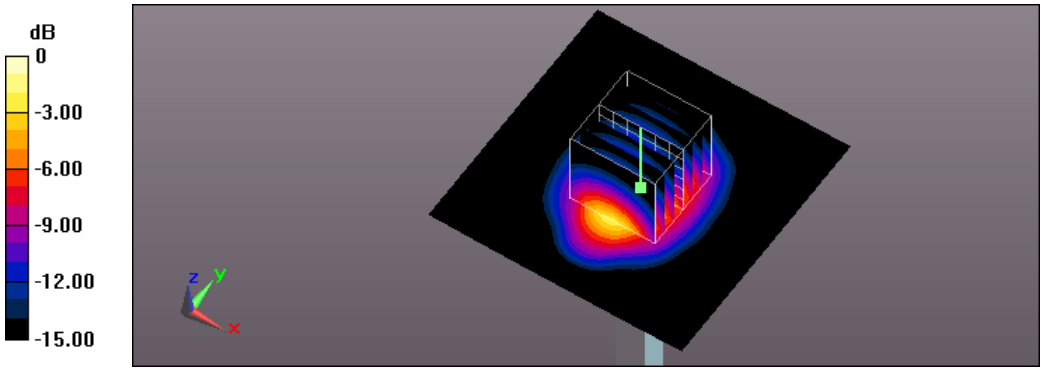
DUT: Dipole 2300 MHz;Type: D2300V2;Serial: D2300V2 - SN:1005

Communication System: UID 0, CW (0);Frequency: 2300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2300 MHz; σ = 1.738 S/m; ε_r = 52.027; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 2300MHz/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 17.4 W/kg

System Performance Check at 2300MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 102.0 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 22.4 W/kg
SAR(1 g) = 11.9 W/kg; SAR(10 g) = 5.75 W/kg
Maximum value of SAR (measured) = 17.5 W/kg



0 dB = 17.5 W/kg = 12.43 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/12Time: PM 01:05:37

System Performance Check at 2450MHz_20151112_Body

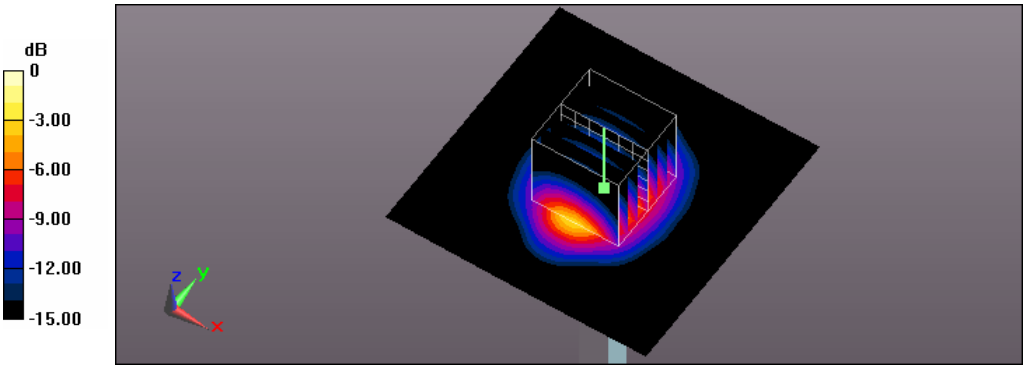
DUT: Dipole 2450 MHz;Type: D2450V2;Serial: D2450V2 - SN:712

Communication System: UID 0, CW (0);Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.962 S/m; ε_r = 51.178; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 2450MHz/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 19.9 W/kg

System Performance Check at 2450MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 103.9 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 26.3 W/kg
SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.29 W/kg
Maximum value of SAR (measured) = 20.1 W/kg



0 dB = 20.1 W/kg = 13.03 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: AM 02:19:10

System Performance Check at 2450MHz_20151125_Body

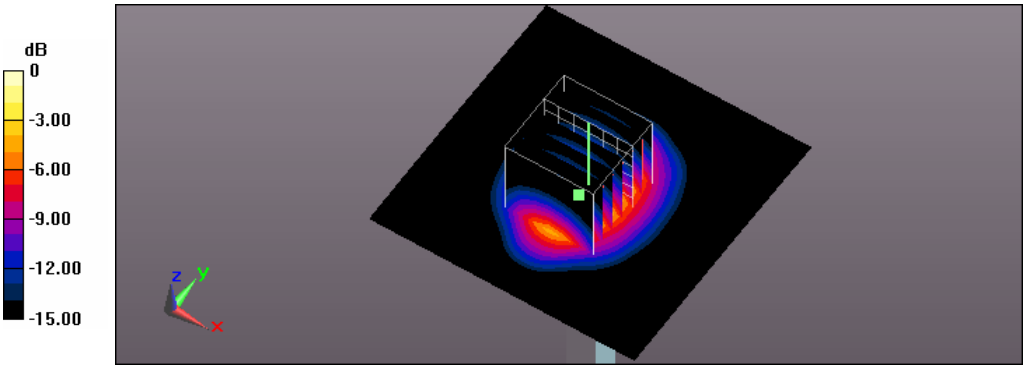
DUT: Dipole 2450 MHz;Type: D2450V2;Serial: D2450V2 - SN:712

Communication System: UID 0, CW (0);Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.962 S/m; ε_r = 51.178; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 2450MHz/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 20.9 W/kg

System Performance Check at 2450MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 103.2 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 26.2 W/kg
SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.22 W/kg
Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 19.8 W/kg = 12.97 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: AM 03:19:10

System Performance Check at 2600MHz_20151020_Body

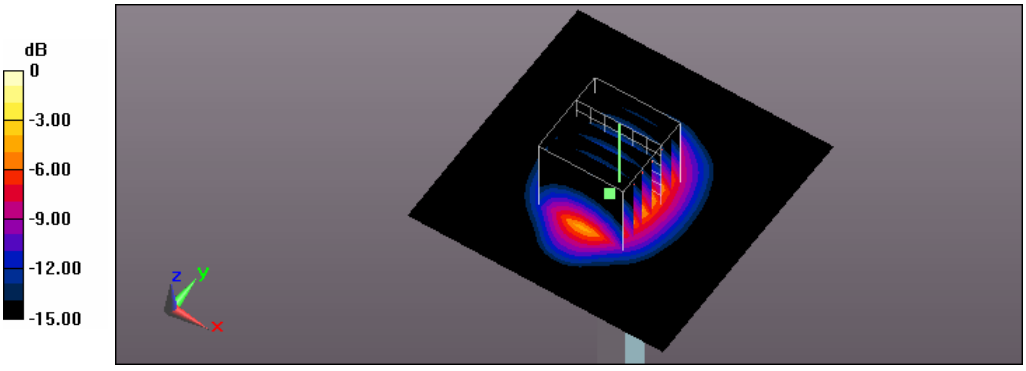
DUT: Dipole 2600 MHz;Type: D2600V2;Serial: D2600V2 - SN:1058

Communication System: UID 0, CW (0);Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.192 S/m; ε_r = 50.75; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.19, 7.19, 7.19); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 2600MHz/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 24.0 W/kg

System Performance Check at 2600MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 102.6 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 30.1 W/kg
SAR(1 g) = 14.8 W/kg; SAR(10 g) = 6.5 W/kg
Maximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.1 W/kg = 13.56 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/10Time: PM 08:19:10

System Performance Check at 2600MHz_20151110_Body

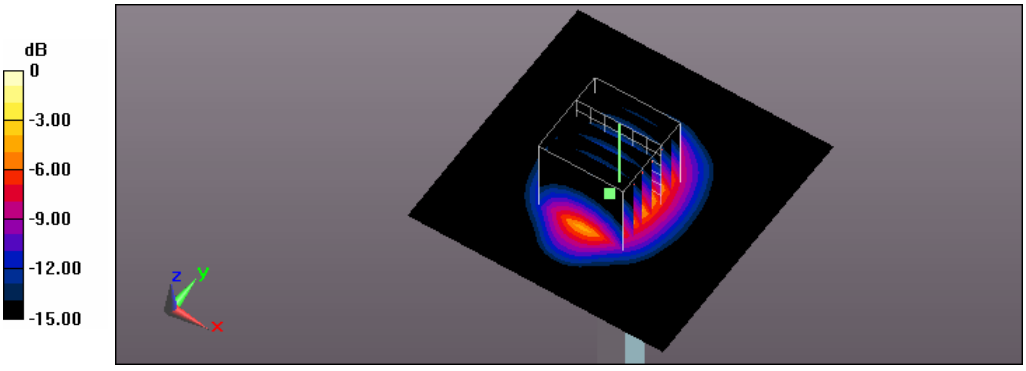
DUT: Dipole 2600 MHz;Type: D2600V2;Serial: D2600V2 - SN:1058

Communication System: UID 0, CW (0);Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.192 S/m; ε_r = 50.75; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.19, 7.19, 7.19); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 2600MHz/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 23.9 W/kg

System Performance Check at 2600MHz/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 102.1 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 29.8 W/kg
SAR(1 g) = 14.6 W/kg; SAR(10 g) = 6.3 W/kg
Maximum value of SAR (measured) = 22.2 W/kg



0 dB = 22.2 W/kg = 13.54 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/12Time: PM 05:17:54

System Performance Check at 5200MHz_20151112_Body

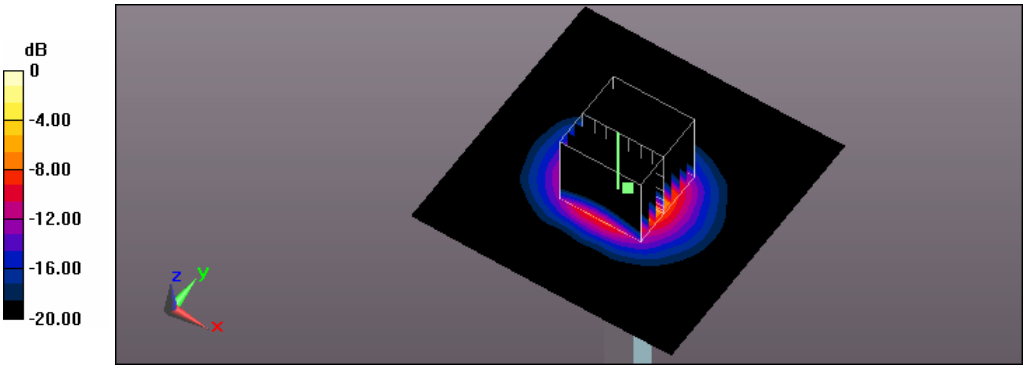
DUT: Dipole 5GHzV2;Type: D5GHz;Serial: 1021

Communication System: UID 0, CW (0);Frequency: 5200 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5200 MHz; σ = 5.52 S/m; ε_r = 47.76; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.96, 4.96, 4.96); Calibrated: 2015/1/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 5200MHz/Area Scan (91x91x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 18.5 W/kg

System Performance Check at 5200MHz/Zoom Scan (8x8x7)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 55.36 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 34.5 W/kg
SAR(1 g) = 7.81 W/kg; SAR(10 g) = 2.19 W/kg
Maximum value of SAR (measured) = 19.3 W/kg



0 dB = 19.3 W/kg = 12.86 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: AM 10:05:42

System Performance Check at 5200MHz_20151125_Body

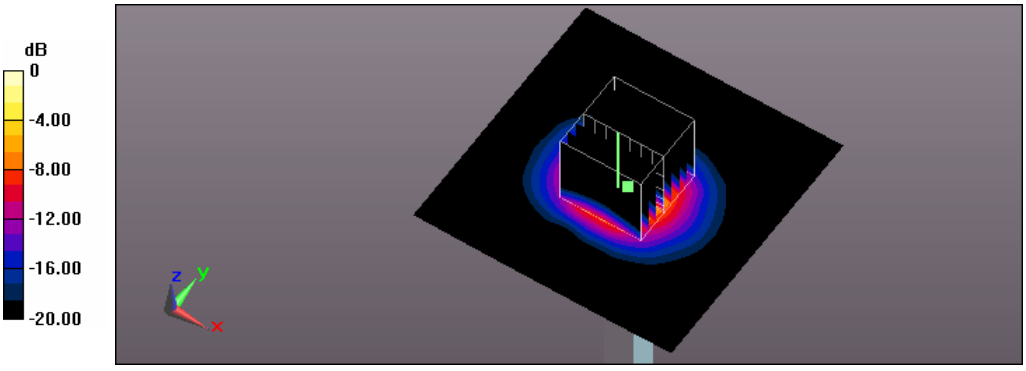
DUT: Dipole 5GHzV2;Type: D5GHz;Serial: 1021

Communication System: UID 0, CW (0);Frequency: 5200 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5200 MHz; σ = 5.52 S/m; ε_r = 47.76; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.96, 4.96, 4.96); Calibrated: 2015/1/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 5200MHz/Area Scan (91x91x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 18.5 W/kg

System Performance Check at 5200MHz/Zoom Scan (8x8x7)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 55.87 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 34.9 W/kg
SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.23 W/kg
Maximum value of SAR (measured) = 19.4 W/kg



0 dB = 19.4 W/kg = 12.88 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/12Time: PM 06:21:50

System Performance Check at 5800MHz_20151112_Body

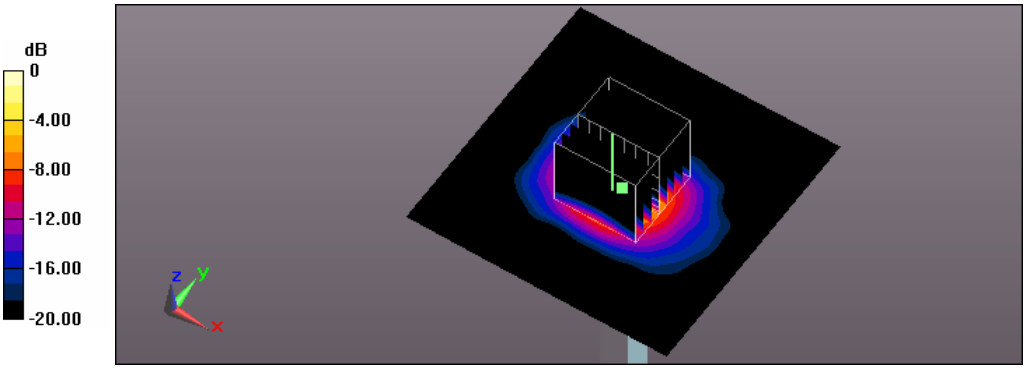
DUT: Dipole 5GHzV2;Type: D5GHz;Serial: 1021

Communication System: UID 0, CW (0);Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 6.27 S/m; ε_r = 46.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.35, 4.35, 4.35); Calibrated: 2015/1/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 5800MHz/Area Scan (91x91x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 18.9 W/kg

System Performance Check at 5800MHz/Zoom Scan (8x8x7)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 53.43 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 40.4 W/kg
SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.13 W/kg
Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.92 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: AM 11:09:19

System Performance Check at 5800MHz_20151125_Body

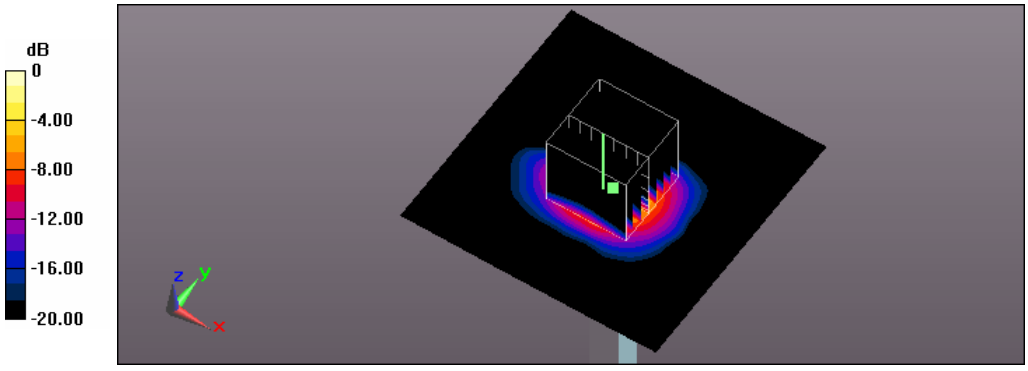
DUT: Dipole 5GHzV2;Type: D5GHz;Serial: 1021

Communication System: UID 0, CW (0);Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 6.27 S/m; ε_r = 46.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.35, 4.35, 4.35); Calibrated: 2015/1/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

System Performance Check at 5800MHz/Area Scan (91x91x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 19.7 W/kg

System Performance Check at 5800MHz/Zoom Scan (8x8x7)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 53.36 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 40.1 W/kg
SAR(1 g) = 7.57 W/kg; SAR(10 g) = 2.09 W/kg
Maximum value of SAR (measured) = 19.4 W/kg



0 dB = 19.4 W/kg = 12.88 dBW/kg

Appendix B - SAR Measurement Data

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/5Time: PM 01:47:02

89_GPRS 850 CH190_3D2U_side1_10mm

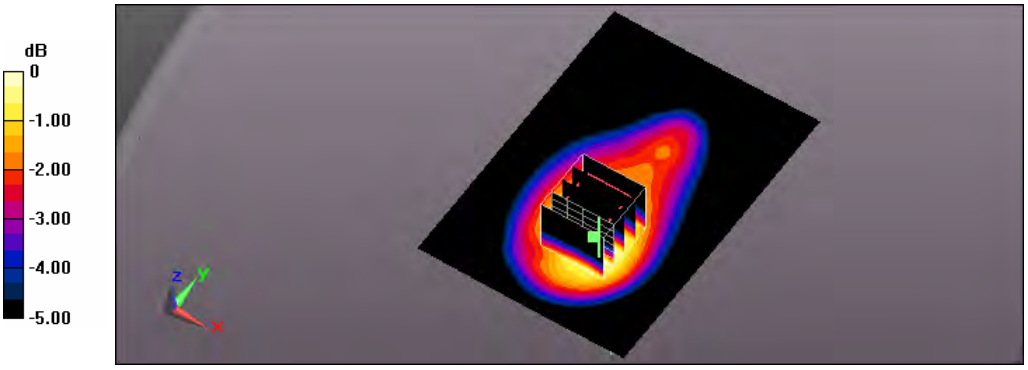
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS 850 (3Down, 2Up) (0);Frequency: 836.6 MHz;Duty Cycle: 1:4
Medium parameters used: f = 837 MHz; σ = 0.981 S/m; ε_r = 54.873; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.755 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.35 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.899 W/kg
SAR(1 g) = 0.615 W/kg; SAR(10 g) = 0.436 W/kg
Maximum value of SAR (measured) = 0.752 W/kg



0 dB = 0.752 W/kg = -1.24 dBW/kg

Test Laboratory: A Test Lab Techno Corp.

Date: 2015/11/5Time: PM 02:05:45

90_GPRS 850 CH190_3D2U_side2_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS 850 (3Down, 2Up) (0);Frequency: 836.6 MHz;Duty Cycle: 1:4

Medium parameters used: f = 837 MHz; σ = 0.981 S/m; ε_r = 54.873; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.710 W/kg

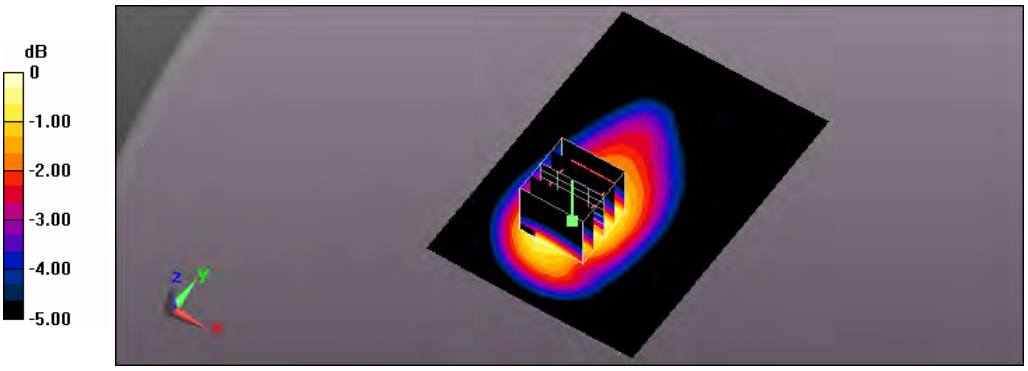
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.32 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.927 W/kg

SAR(1 g) = 0.606 W/kg; SAR(10 g) = 0.426 W/kg

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



0 dB = 0.709 W/kg = -1.49 dBW/kg

Test Laboratory: A Test Lab Techno Corp.

Date: 2015/11/5Time: PM 02:26:44

87_GPRS 850 CH190_3D2U_side3_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS 850 (3Down, 2Up) (0);Frequency: 836.6 MHz;Duty Cycle: 1:4

Medium parameters used: f = 837 MHz; σ = 0.981 S/m; ε_r = 54.873; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.453 W/kg

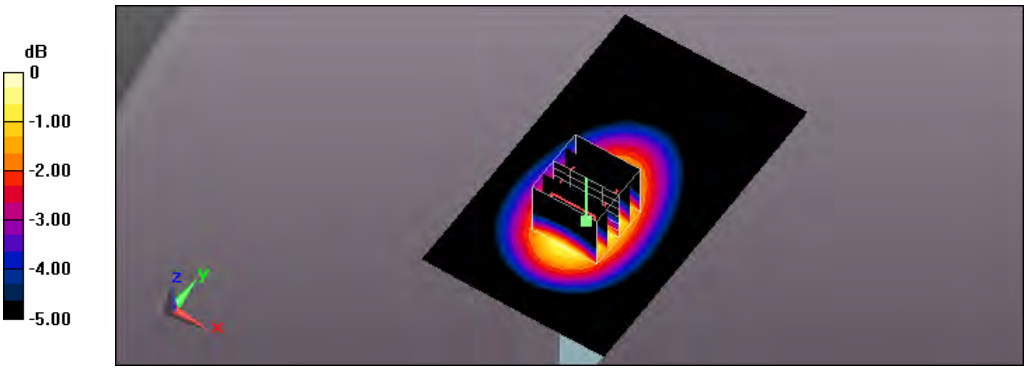
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.79 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.517 W/kg

SAR(1 g) = 0.377 W/kg; SAR(10 g) = 0.269 W/kg

Maximum value of SAR (measured) = 0.454 W/kg



0 dB = 0.454 W/kg = -3.43 dBW/kg

Test Laboratory: A Test Lab Techno Corp.

Date: 2015/11/9Time: AM 11:18:51

88_GPRS 850 CH190_3D2U_side4_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS 850 (3Down, 2Up) (0);Frequency: 836.6 MHz;Duty Cycle: 1:4

Medium parameters used: f = 837 MHz; σ = 0.981 S/m; ε_r = 54.873; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.491 W/kg

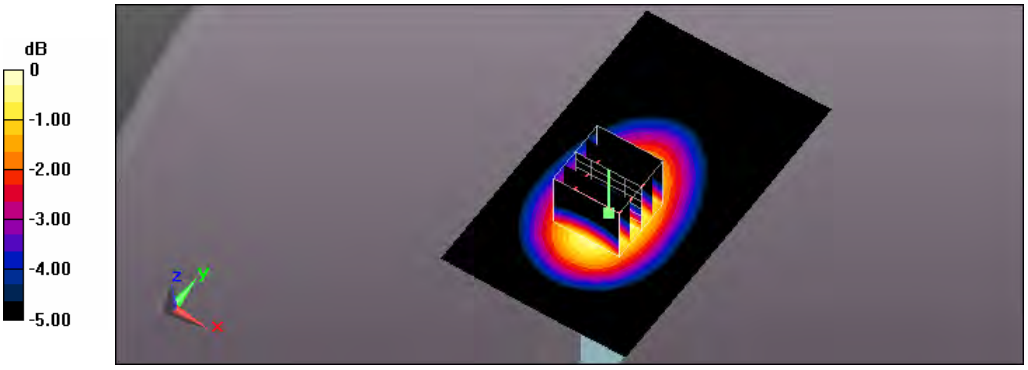
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.64 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.542 W/kg

SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.286 W/kg

Maximum value of SAR (measured) = 0.480 W/kg



0 dB = 0.480 W/kg = -3.19 dBW/kg

Test Laboratory: A Test Lab Techno Corp.

Date: 2015/11/9Time: AM 11:58:13

86_GPRS 850 CH190_3D2U_side5_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS 850 (3Down, 2Up) (0);Frequency: 836.6 MHz;Duty Cycle: 1:4

Medium parameters used: f = 837 MHz; σ = 0.981 S/m; ε_r = 54.873; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.155 W/kg

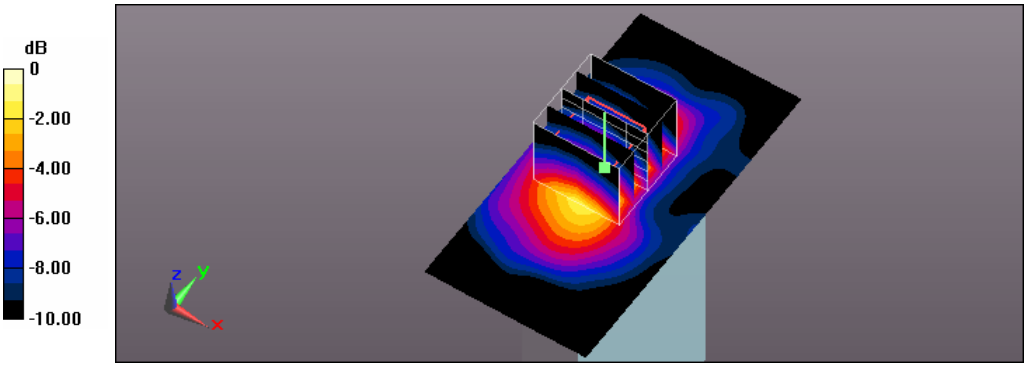
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.93 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.202 W/kg

SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.072 W/kg

Maximum value of SAR (measured) = 0.167 W/kg



0 dB = 0.167 W/kg = -7.77 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/24Time: PM 03:42:50

128_GPRS 850 CH190_3D2U_side6_10mm

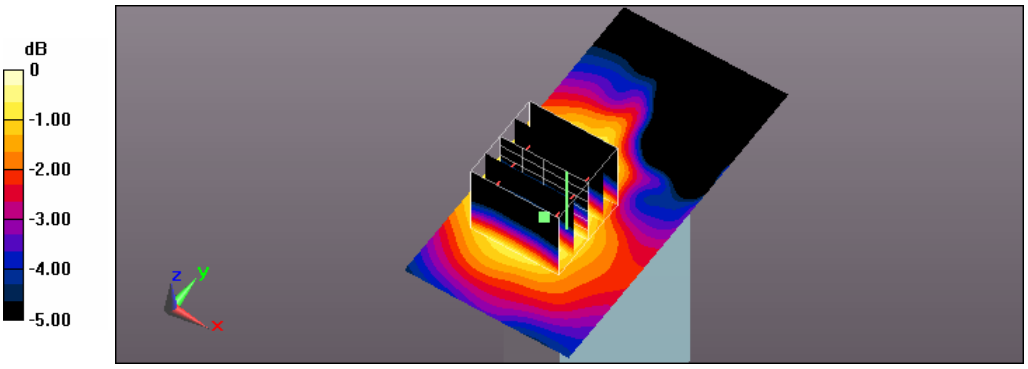
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS 850 (3Down, 2Up) (0);Frequency: 836.6 MHz;Duty Cycle: 1:4
Medium parameters used: f = 837 MHz; σ = 0.981 S/m; ε_r = 54.873; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0527 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.472 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.0610 W/kg
SAR(1 g) = 0.045 W/kg; SAR(10 g) = 0.032 W/kg
Maximum value of SAR (measured) = 0.0531 W/kg



0 dB = 0.0531 W/kg = -12.75 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 10:28:17

62_GPRS 1900 CH512_3D2U_side1_10mm

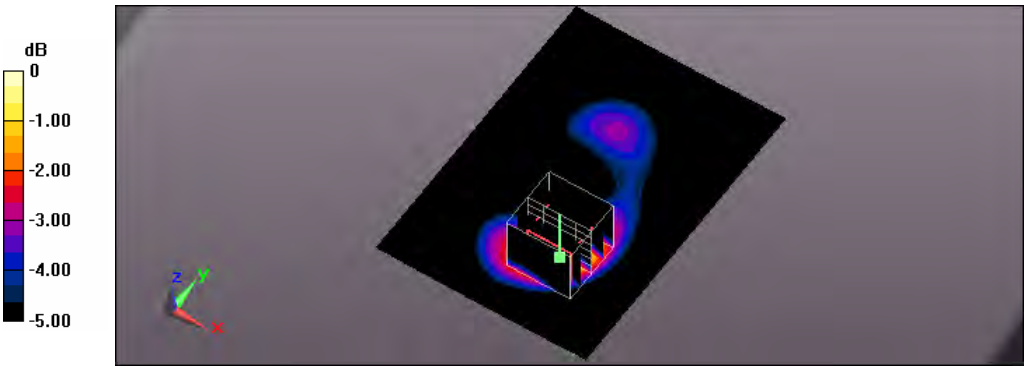
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS PCS (3Down,2Up) (0);Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1850.2 MHz; σ = 1.46 S/m; ε_r = 54.608; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.16 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.29 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.40 W/kg
SAR(1 g) = 0.869 W/kg; SAR(10 g) = 0.511 W/kg
Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 10:08:08

61_GPRS 1900 CH661_3D2U_side1_10mm

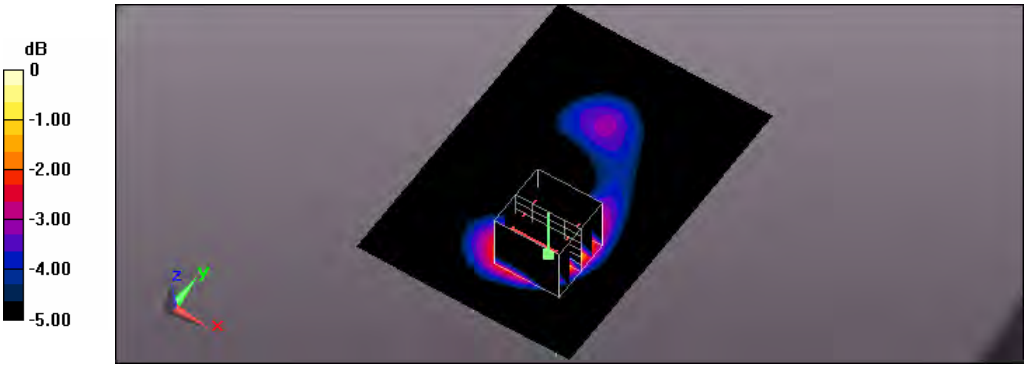
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS PCS (3Down,2Up) (0);Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.15 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.74 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.830 W/kg; SAR(10 g) = 0.488 W/kg
Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg = 0.37 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 10:46:42

63_GPRS 1900 CH810_3D2U_side1_10mm

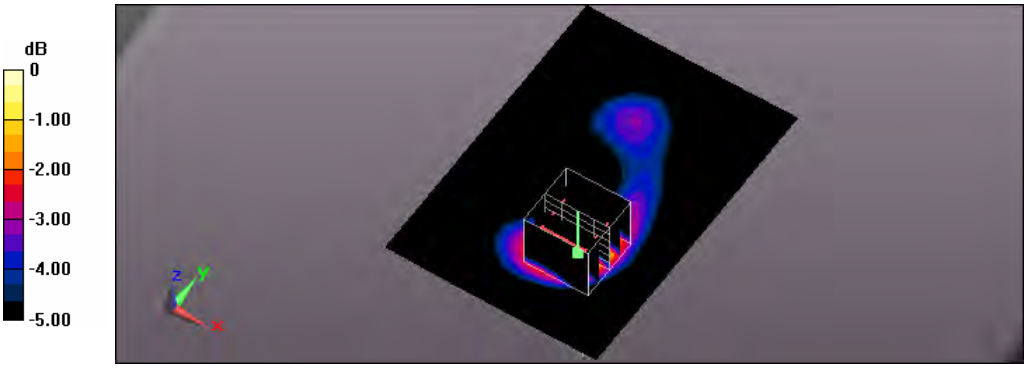
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS PCS (3Down,2Up) (0);Frequency: 1909.8 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1910 MHz; σ = 1.518 S/m; ε_r = 54.314; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.05 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.76 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.769 W/kg; SAR(10 g) = 0.450 W/kg
Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: AM 12:09:47

64_GPRS 1900 CH661_3D2U_side2_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

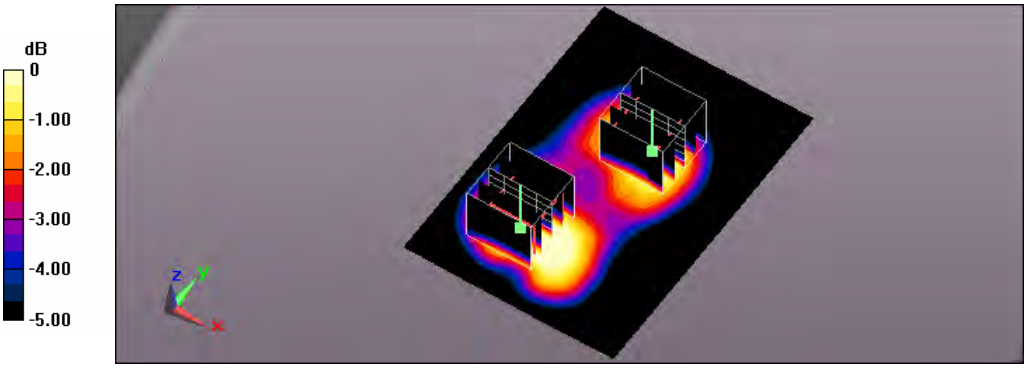
Communication System: UID 0, GPRS PCS (3Down,2Up) (0);Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.680 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.06 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.796 W/kg
SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.305 W/kg
Maximum value of SAR (measured) = 0.656 W/kg

Flat/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.06 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.568 W/kg
SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.240 W/kg
Maximum value of SAR (measured) = 0.476 W/kg



0 dB = 0.476 W/kg = -3.22 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: AM 12:36:51

65_GPRS 1900 CH661_3D2U_side3_10mm

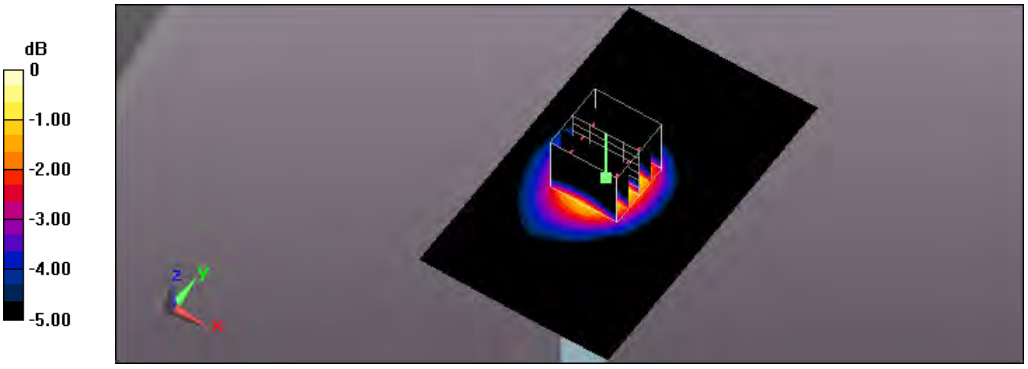
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS PCS (3Down,2Up) (0);Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.192 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.27 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.233 W/kg
SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.093 W/kg
Maximum value of SAR (measured) = 0.194 W/kg



0 dB = 0.194 W/kg = -7.12 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: AM 12:53:50

66_GPRS 1900 CH661_3D2U_side4_10mm

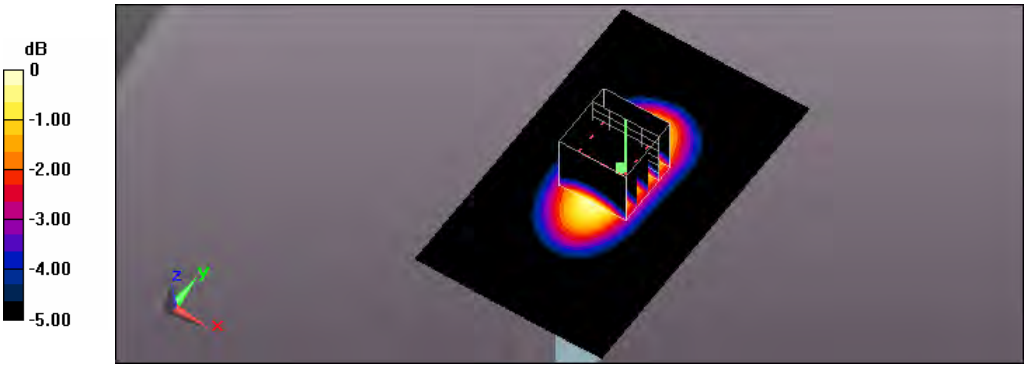
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS PCS (3Down,2Up) (0);Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.604 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.43 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.721 W/kg
SAR(1 g) = 0.458 W/kg; SAR(10 g) = 0.286 W/kg
Maximum value of SAR (measured) = 0.597 W/kg



0 dB = 0.597 W/kg = -2.24 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: AM 01:21:12

67_GPRS 1900 CH661_3D2U_side5_10mm

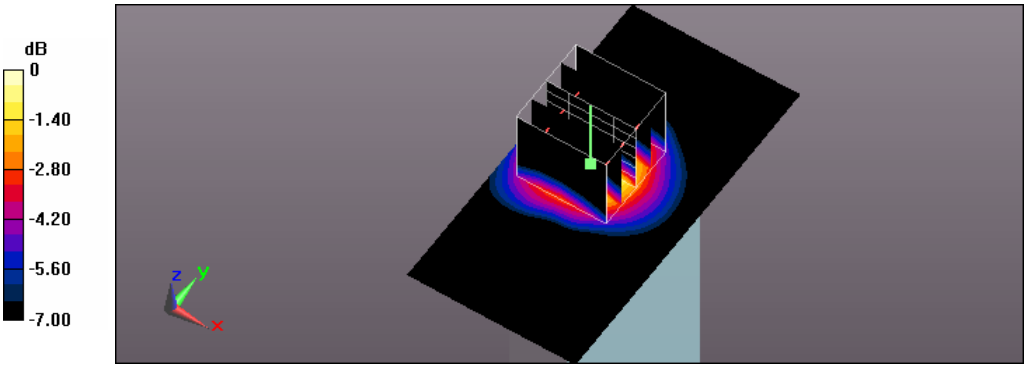
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS PCS (3Down,2Up) (0);Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.648 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.13 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.784 W/kg
SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.255 W/kg
Maximum value of SAR (measured) = 0.626 W/kg



0 dB = 0.626 W/kg = -2.03 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/24Time: PM 02:01:41

127_GPRS 1900 CH661_3D2U_side6_10mm

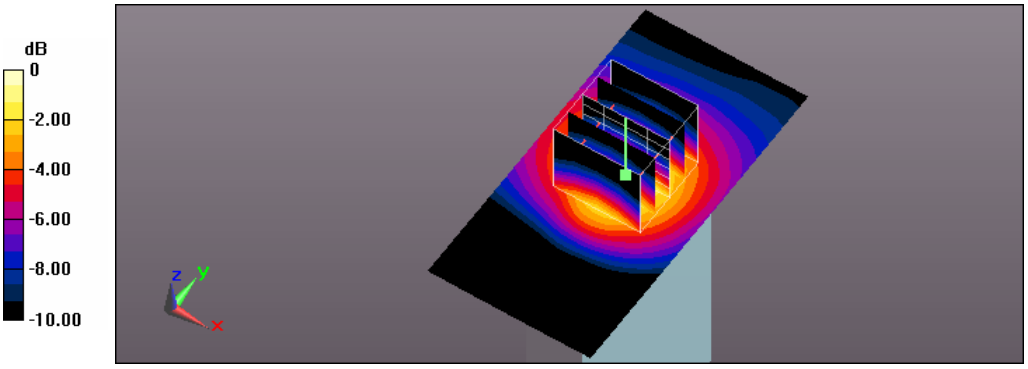
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS PCS (3Down,2Up) (0);Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.293 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.07 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.397 W/kg
SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.151 W/kg
Maximum value of SAR (measured) = 0.328 W/kg



0 dB = 0.328 W/kg = -4.84 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: AM 01:45:29

68_GPRS 1900 CH512_3D2U_side 1_10mm_original 62_measurement once

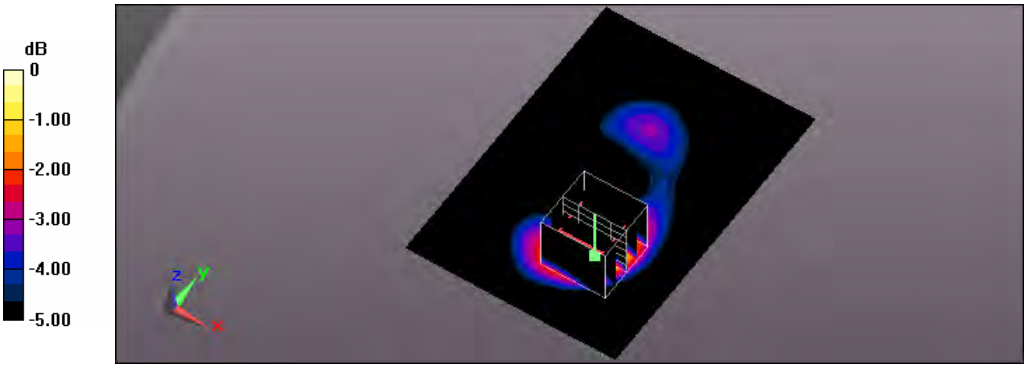
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, GPRS PCS (3Down,2Up) (0);Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1850.2 MHz; σ = 1.46 S/m; ε_r = 54.608; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.19 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.49 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.888 W/kg; SAR(10 g) = 0.524 W/kg
Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/11Time: PM 08:36:23

110_WCDMA BandII CH9262_RMC-12.2K_side1_10mm

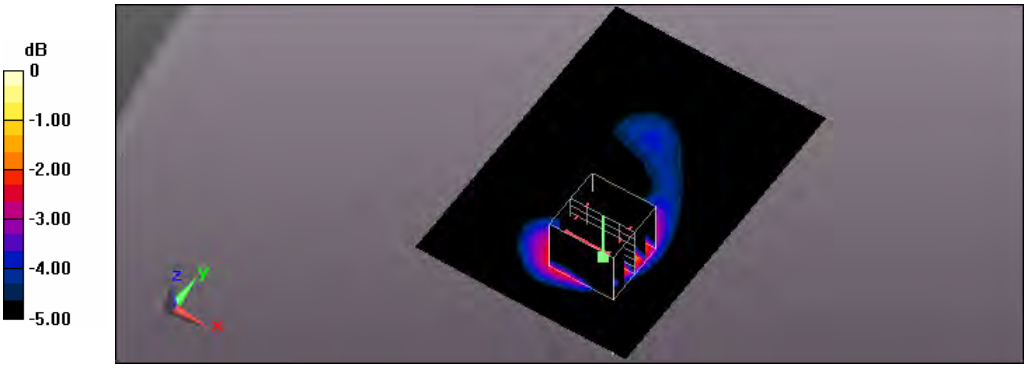
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band II (0);Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1852.4 MHz; σ = 1.462 S/m; ε_r = 54.612; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.06 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.73 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.27 W/kg
SAR(1 g) = 0.782 W/kg; SAR(10 g) = 0.457 W/kg
Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/11Time: PM 08:13:38

109_WCDMA BandII CH9400_RMC-12.2K_side1_10mm

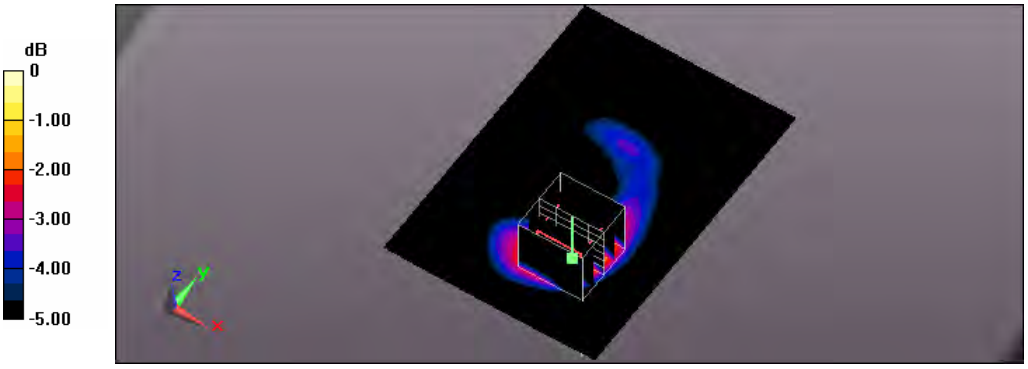
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band II (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.06 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.55 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.789 W/kg; SAR(10 g) = 0.459 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/11Time: PM 08:57:27

111_WCDMA BandII CH9538_RMC-12.2K_side1_10mm

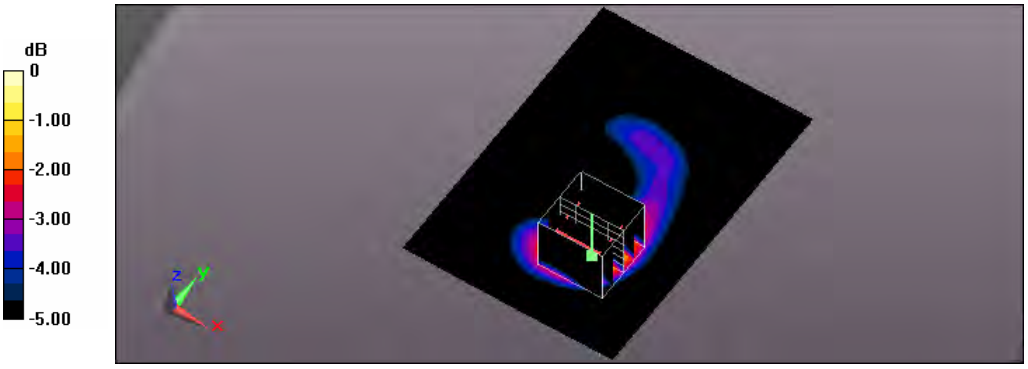
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band II (0);Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1908 MHz; σ = 1.514 S/m; ε_r = 54.324; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.10 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.75 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.790 W/kg; SAR(10 g) = 0.458 W/kg
Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/11Time: PM 09:45:12

112_WCDMA BandII CH9400_RMC-12.2K_side2_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

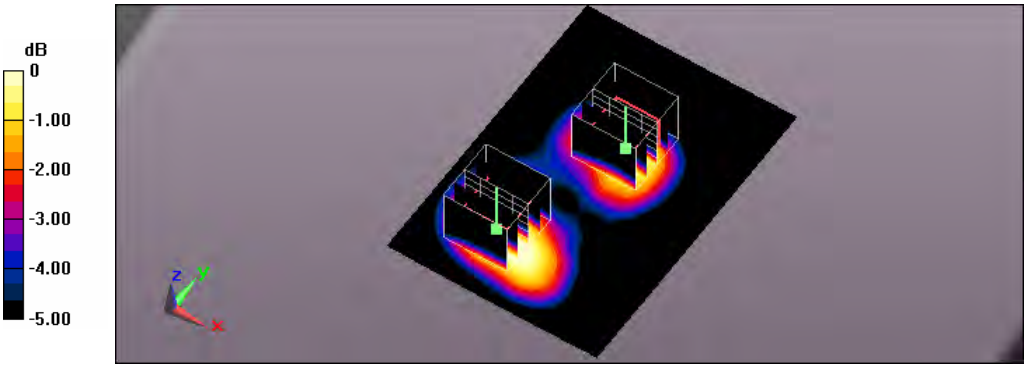
Communication System: UID 0, WCDMA Band II (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.622 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.28 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.747 W/kg
SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.277 W/kg
Maximum value of SAR (measured) = 0.612 W/kg

Flat/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.28 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.588 W/kg
SAR(1 g) = 0.385 W/kg; SAR(10 g) = 0.242 W/kg
Maximum value of SAR (measured) = 0.492 W/kg



0 dB = 0.492 W/kg = -3.08 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/11Time: PM 10:21:31

113_WCDMA BandII CH9400_RMC-12.2K_side3_10mm

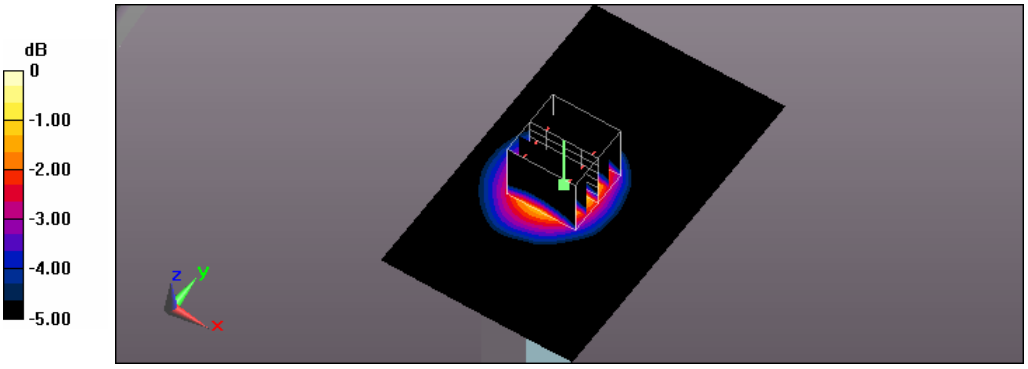
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band II (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.187 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.75 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.226 W/kg
SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.091 W/kg
Maximum value of SAR (measured) = 0.189 W/kg



0 dB = 0.189 W/kg = -7.24 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/12Time: AM 12:27:39

114_WCDMA BandII CH9400_RMC-12.2K_side4_10mm

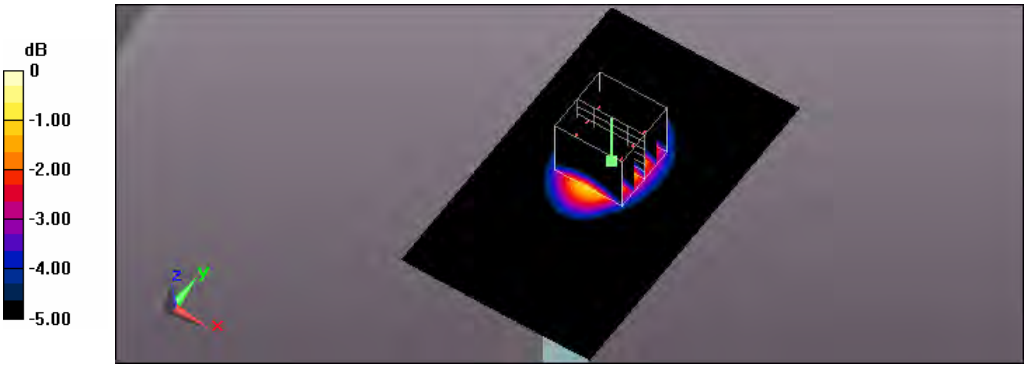
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band II (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.704 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.83 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.838 W/kg
SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.320 W/kg
Maximum value of SAR (measured) = 0.694 W/kg



0 dB = 0.694 W/kg = -1.59 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/12Time: AM 12:49:16

115_WCDMA BandII CH9400_RMC-12.2K_side5_10mm

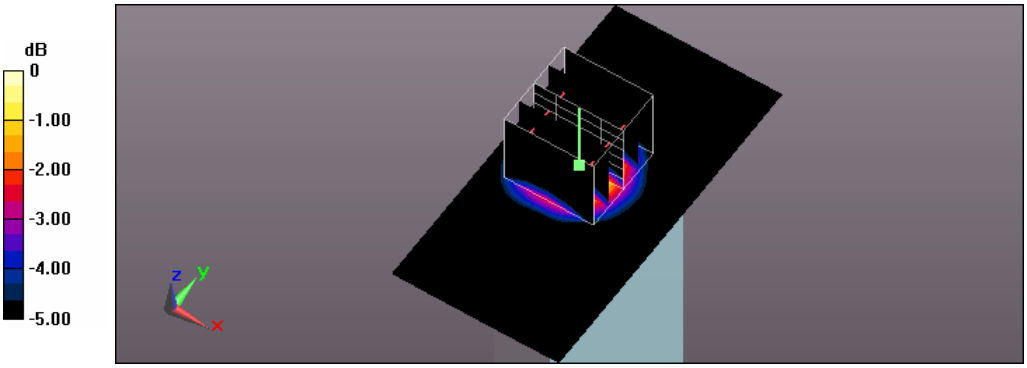
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band II (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.713 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.26 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.848 W/kg
SAR(1 g) = 0.495 W/kg; SAR(10 g) = 0.279 W/kg
Maximum value of SAR (measured) = 0.680 W/kg



0 dB = 0.680 W/kg = -1.67 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/9Time: PM 02:55:14

100_WCDMA BandV CH4132_RMC-12.2K_side1_10mm

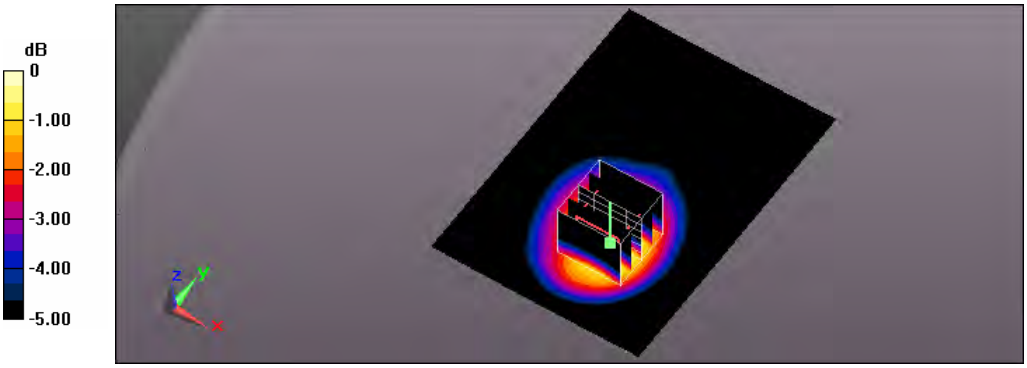
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band V (0);Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.968 S/m; ε_r = 54.796; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.896 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.11 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.741 W/kg; SAR(10 g) = 0.516 W/kg
Maximum value of SAR (measured) = 0.908 W/kg



0 dB = 0.908 W/kg = -0.42 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/9Time: PM 02:37:27

99_WCDMA BandV CH4183_RMC-12.2K_side1_10mm

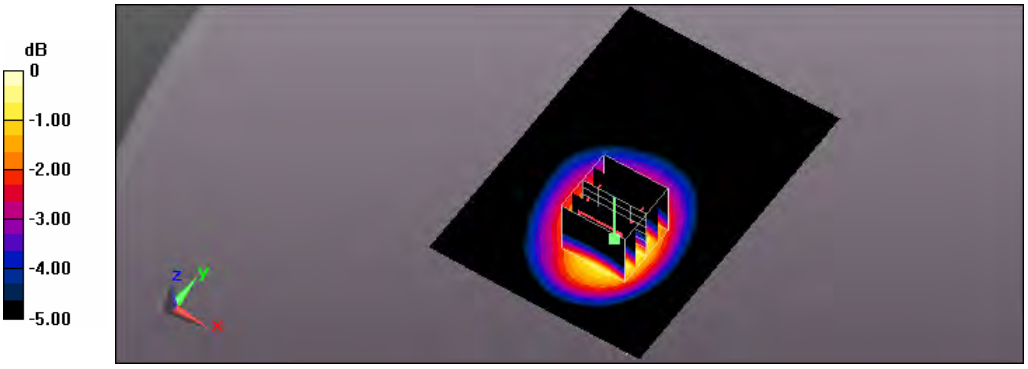
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band V (0);Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 837 MHz; σ = 0.981 S/m; ε_r = 54.873; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.02 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.08 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.851 W/kg; SAR(10 g) = 0.603 W/kg
Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/9Time: PM 03:24:44

101_WCDMA BandV CH4233_RMC-12.2K_side1_10mm

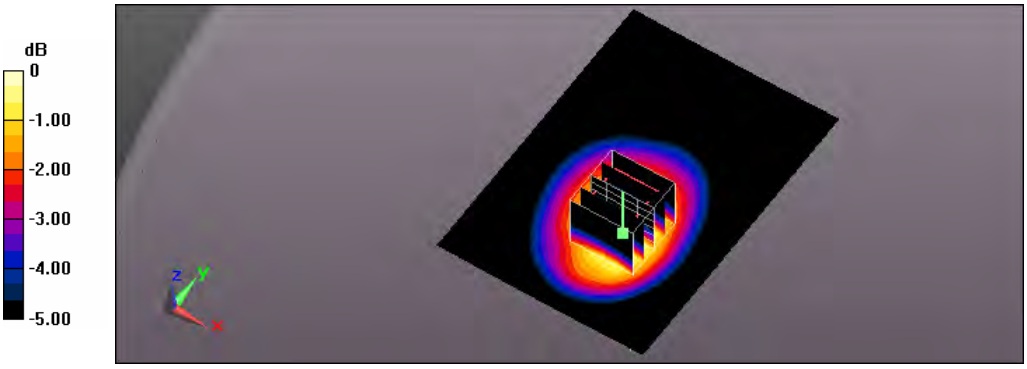
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band V (0);Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 847 MHz; σ = 0.995 S/m; ε_r = 54.871; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.20 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.839 W/kg; SAR(10 g) = 0.602 W/kg
Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/9Time: PM 04:16:14

103_WCDMA BandV CH4132_RMC-12.2K_side2_10mm

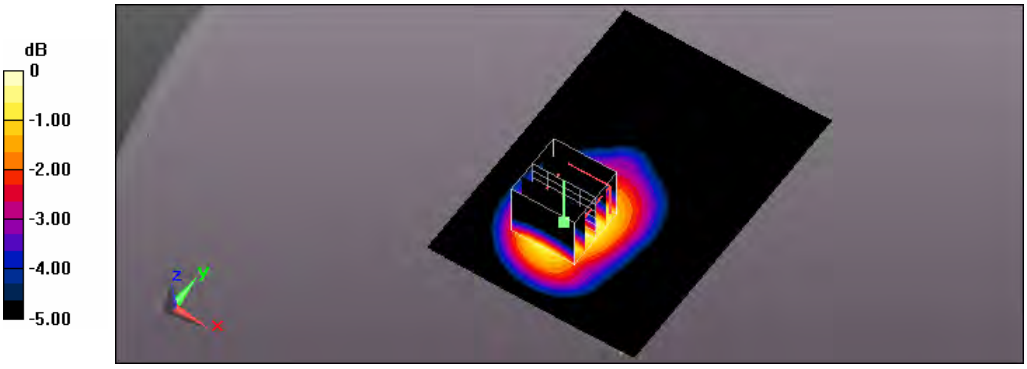
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band V (0);Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.968 S/m; ε_r = 54.796; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.831 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.77 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.952 W/kg
SAR(1 g) = 0.695 W/kg; SAR(10 g) = 0.493 W/kg
Maximum value of SAR (measured) = 0.836 W/kg



0 dB = 0.836 W/kg = -0.78 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/9Time: PM 03:50:06

102_WCDMA BandV CH4183_RMC-12.2K_side2_10mm

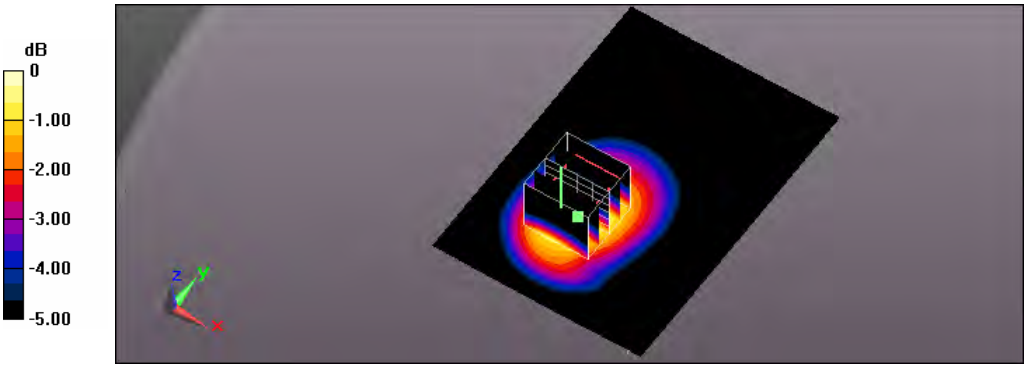
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band V (0);Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 837 MHz; σ = 0.981 S/m; ε_r = 54.873; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.70 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.22 W/kg
SAR(1 g) = 0.876 W/kg; SAR(10 g) = 0.622 W/kg
Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/9Time: PM 04:45:30

104_WCDMA BandV CH4233_RMC-12.2K_side2_10mm

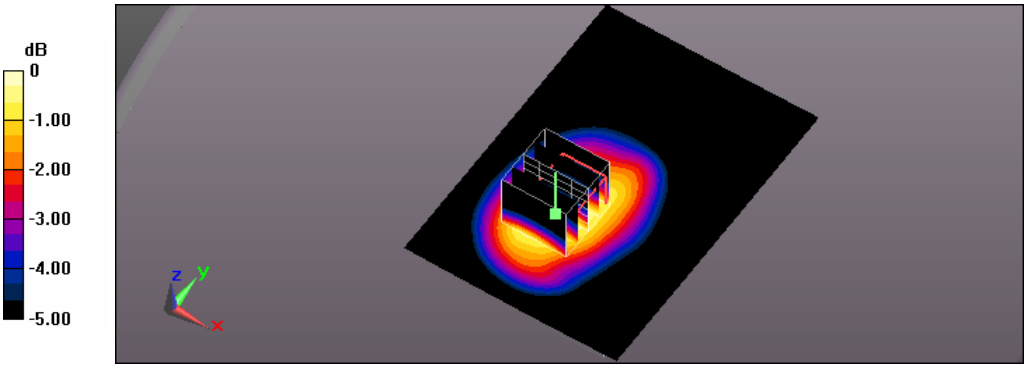
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band V (0);Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 847 MHz; σ = 0.995 S/m; ε_r = 54.871; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.03 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.62 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.873 W/kg; SAR(10 g) = 0.636 W/kg
Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/9Time: PM 09:03:44

105_WCDMA BandV CH4183_RMC-12.2K_side3_10mm

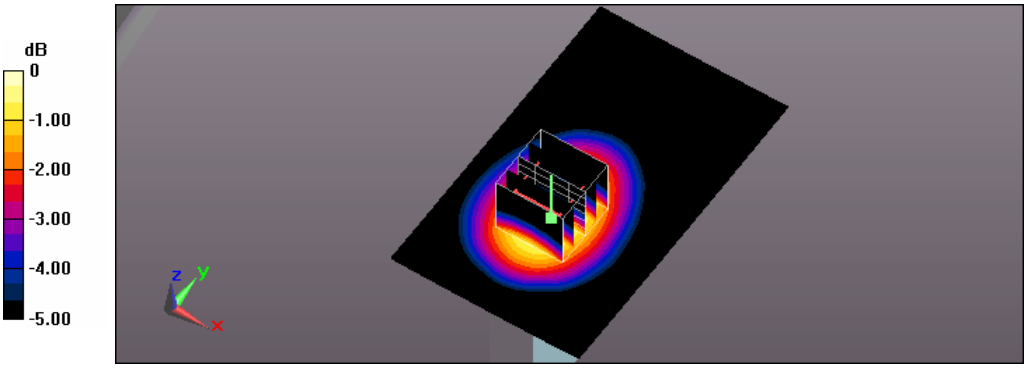
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band V (0);Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 837 MHz; σ = 0.981 S/m; ε_r = 54.873; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.512 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.96 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.579 W/kg
SAR(1 g) = 0.428 W/kg; SAR(10 g) = 0.306 W/kg
Maximum value of SAR (measured) = 0.512 W/kg



0 dB = 0.512 W/kg = -2.91 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/9Time: PM 09:25:10

106_WCDMA BandV CH4183_RMC-12.2K_side4_10mm

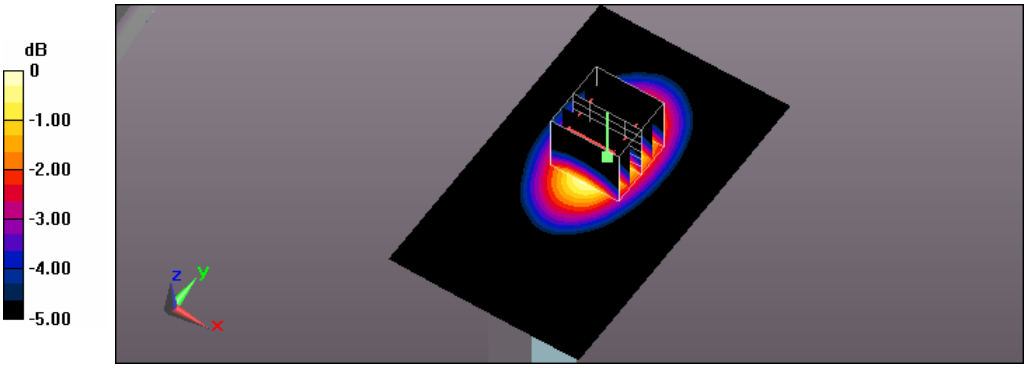
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band V (0);Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 837 MHz; σ = 0.981 S/m; ε_r = 54.873; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.547 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.84 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.568 W/kg
SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.283 W/kg
Maximum value of SAR (measured) = 0.493 W/kg



0 dB = 0.493 W/kg = -3.07 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/9Time: PM 09:55:16

107_WCDMA BandV CH4183_RMC-12.2K_side5_10mm

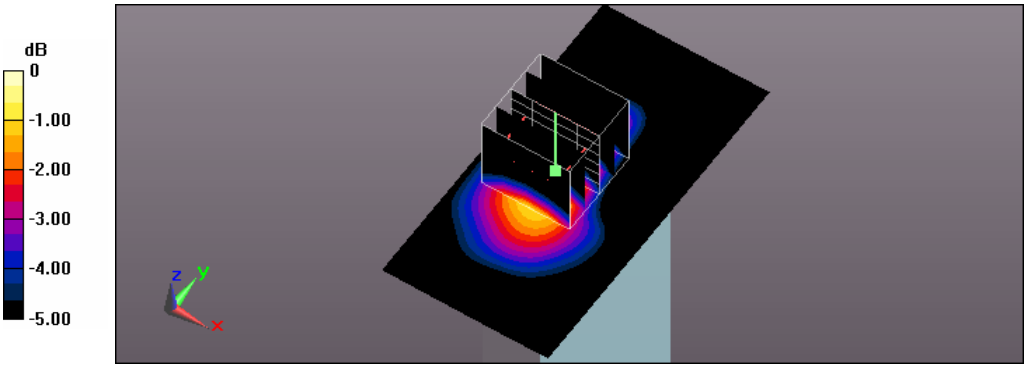
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band V (0);Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 837 MHz; σ = 0.981 S/m; ε_r = 54.873; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.183 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.33 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.228 W/kg
SAR(1 g) = 0.142 W/kg; SAR(10 g) = 0.088 W/kg
Maximum value of SAR (measured) = 0.189 W/kg



0 dB = 0.189 W/kg = -7.24 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/4Time: PM 08:37:08

91_LTE Band2 CH18700_QPSK_BW 20MHz_1RB Size 0RB Offset_side1_10mm

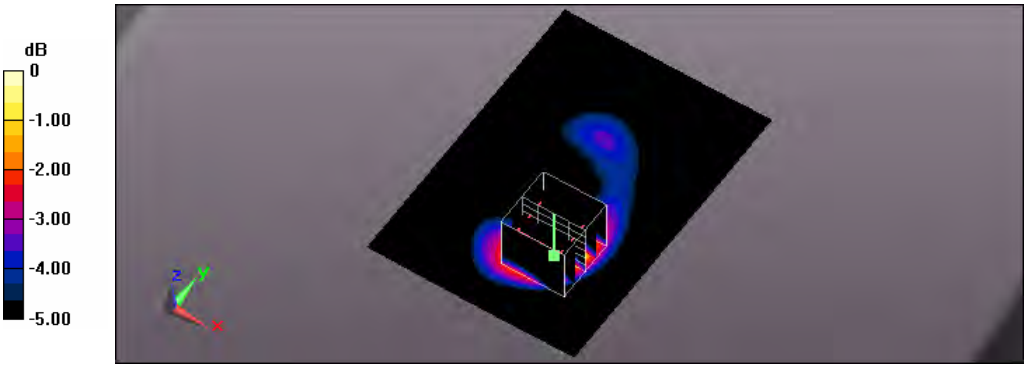
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1860 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1860 MHz; σ = 1.467 S/m; ε_r = 54.624; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.986 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.25 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.731 W/kg; SAR(10 g) = 0.426 W/kg
Maximum value of SAR (measured) = 0.976 W/kg



0 dB = 0.976 W/kg = -0.11 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 04:00:45

51_LTE Band2 CH18900_QPSK_BW 20MHz_1RB Size 0RB Offset_side1_10mm

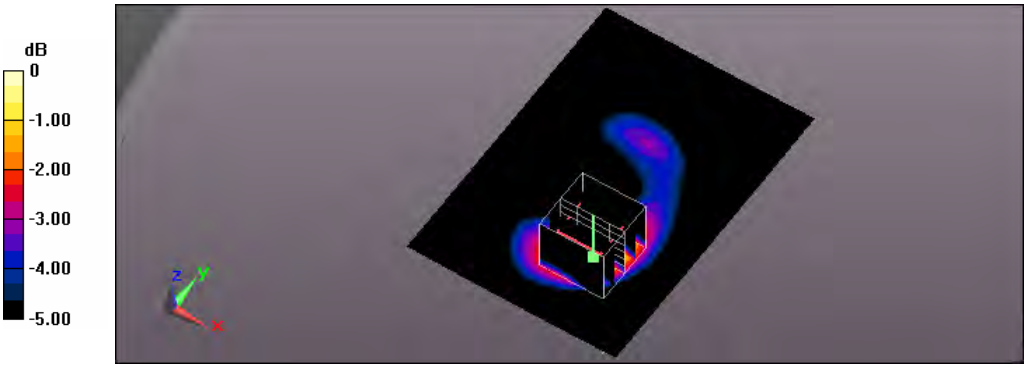
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.900 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.05 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.669 W/kg; SAR(10 g) = 0.393 W/kg
Maximum value of SAR (measured) = 0.886 W/kg



0 dB = 0.886 W/kg = -0.53 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/4Time: PM 08:53:59

92_LTE Band2 CH19100_QPSK_BW 20MHz_1RB Size 0RB Offset_side1_10mm

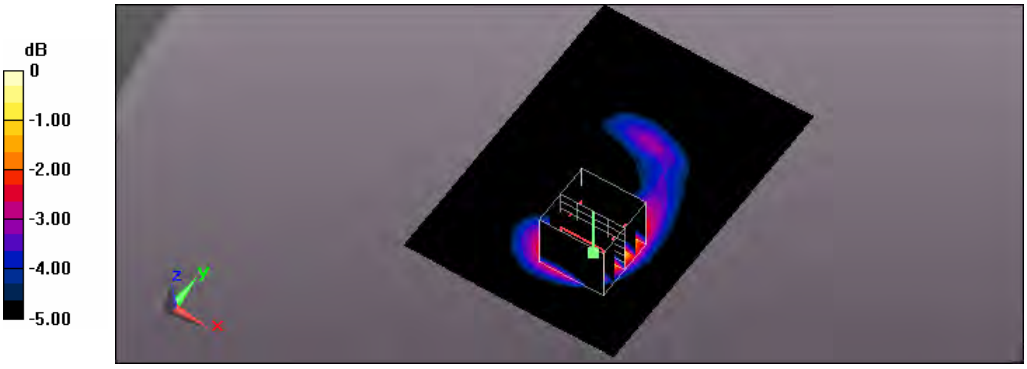
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.502 S/m; ε_r = 54.362; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.944 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.80 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.15 W/kg
SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.409 W/kg
Maximum value of SAR (measured) = 0.936 W/kg



0 dB = 0.936 W/kg = -0.29 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 05:05:31

53_LTE Band2 CH18900_QPSK_BW 20MHz_1RB Size 0RB Offset_side2_10mm

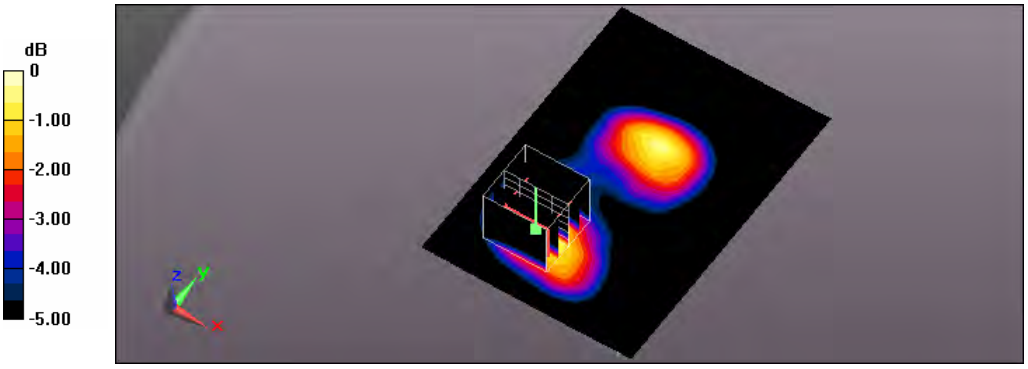
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.570 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.97 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.685 W/kg
SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.258 W/kg
Maximum value of SAR (measured) = 0.562 W/kg



0 dB = 0.562 W/kg = -2.50 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 05:54:19

55_LTE Band2 CH18900_QPSK_BW 20MHz_1RB Size 0RB Offset_side3_10mm

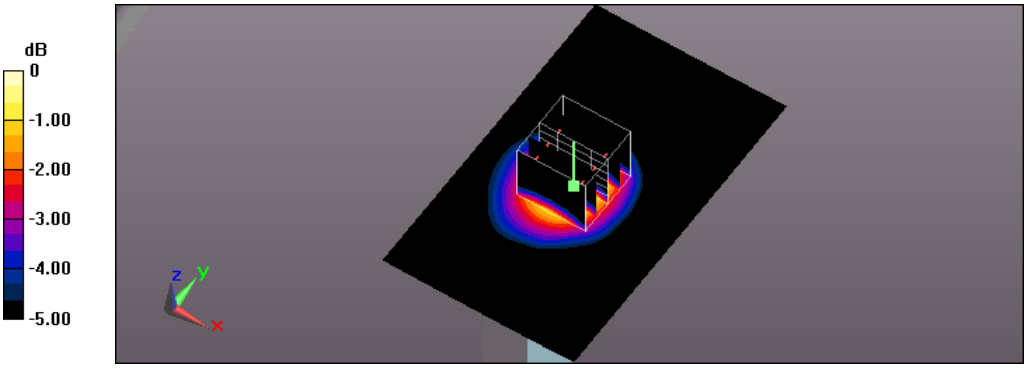
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.166 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.48 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.195 W/kg
SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.078 W/kg
Maximum value of SAR (measured) = 0.161 W/kg



0 dB = 0.161 W/kg = -7.93 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 06:41:27

57_LTE Band2 CH18900_QPSK_BW 20MHz_1RB Size 0RB Offset_side4_10mm

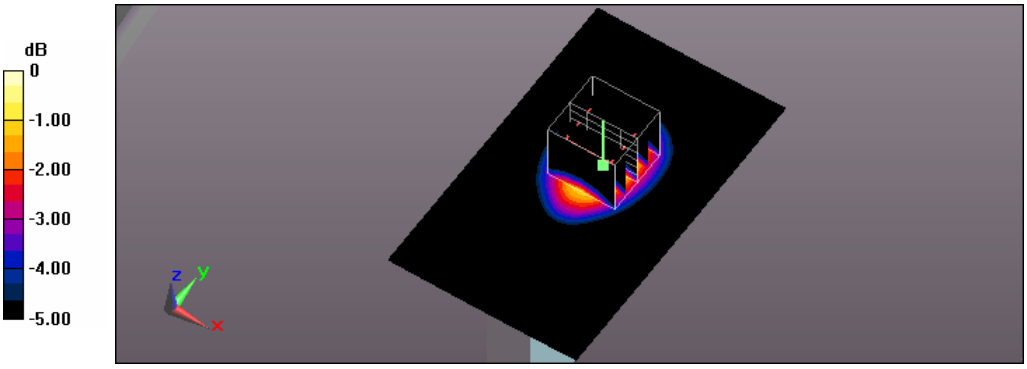
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.617 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.73 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.744 W/kg
SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.287 W/kg
Maximum value of SAR (measured) = 0.616 W/kg



0 dB = 0.616 W/kg = -2.10 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 07:39:27

59_LTE Band2 CH18900_QPSK_BW 20MHz_1RB Size 0RB Offset_side5_10mm

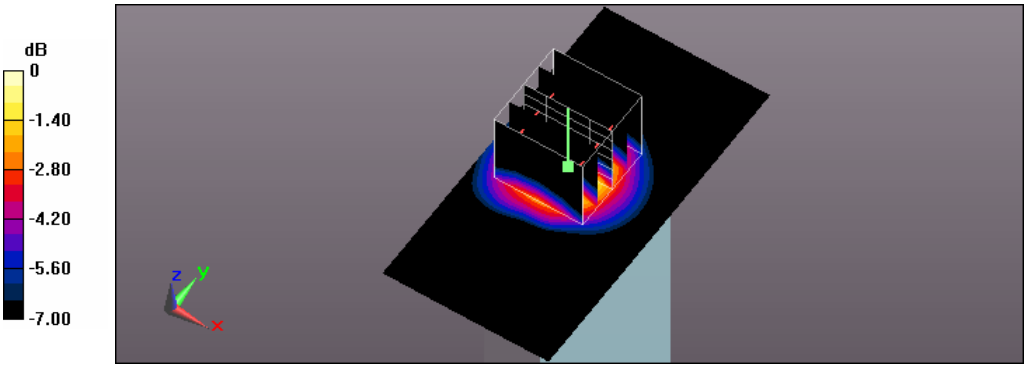
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.665 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.72 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.791 W/kg
SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.261 W/kg
Maximum value of SAR (measured) = 0.634 W/kg



0 dB = 0.634 W/kg = -1.98 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 04:21:12

52_LTE Band2 CH18900_QPSK_BW 20MHz_50RB Size 0RB Offset_side1_10mm

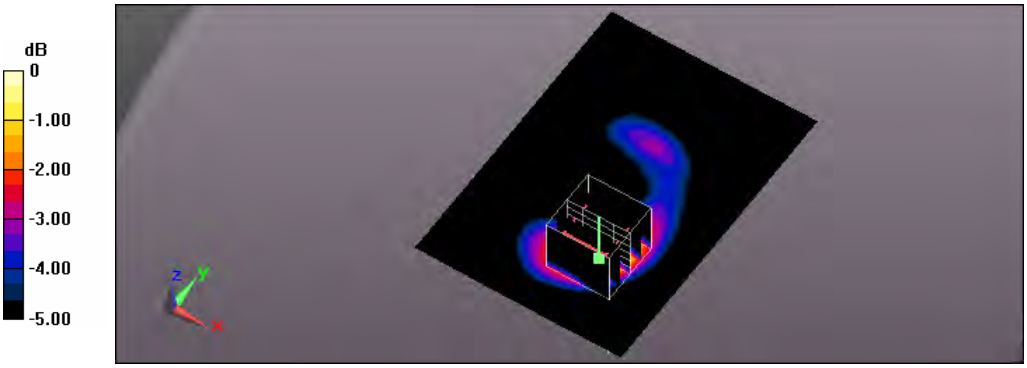
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.715 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.48 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.849 W/kg
SAR(1 g) = 0.525 W/kg; SAR(10 g) = 0.308 W/kg
Maximum value of SAR (measured) = 0.695 W/kg



0 dB = 0.695 W/kg = -1.58 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 05:29:43

54_LTE Band2 CH18900_QPSK_BW 20MHz_50RB Size 0RB Offset_side2_10mm

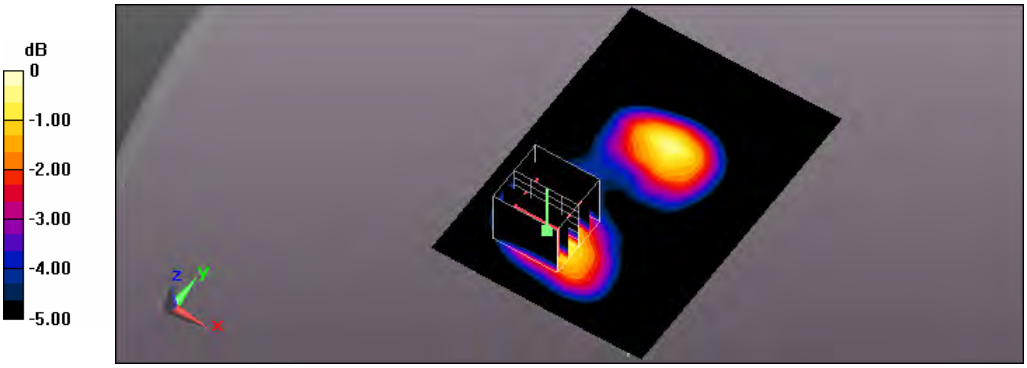
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.445 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.69 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.531 W/kg
SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.200 W/kg
Maximum value of SAR (measured) = 0.434 W/kg



0 dB = 0.434 W/kg = -3.63 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 06:13:24

56_LTE Band2 CH18900_QPSK_BW 20MHz_50RB Size 0RB Offset_side3_10mm

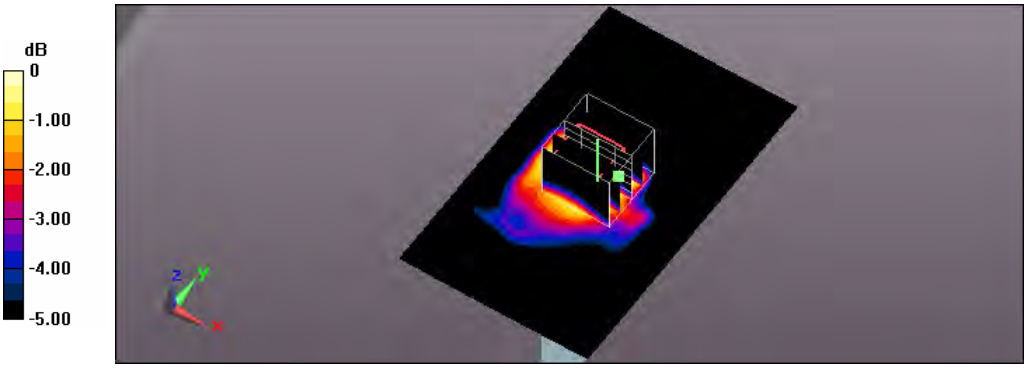
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.127 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.203 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.152 W/kg
SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.061 W/kg
Maximum value of SAR (measured) = 0.123 W/kg



0 dB = 0.123 W/kg = -9.10 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 06:57:35

58_LTE Band2 CH18900_QPSK_BW 20MHz_50RB Size 0RB Offset_side4_10mm

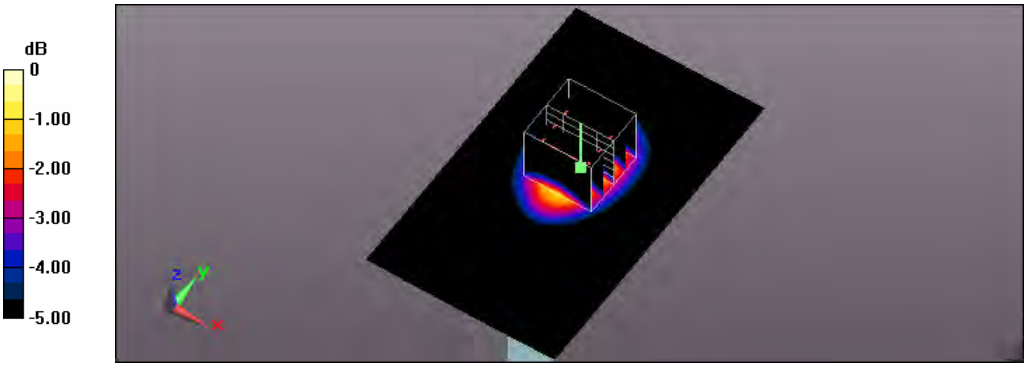
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.486 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.39 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.585 W/kg
SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.225 W/kg
Maximum value of SAR (measured) = 0.484 W/kg



0 dB = 0.484 W/kg = -3.15 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: PM 07:53:59

60_LTE Band2 CH18900_QPSK_BW 20MHz_50RB Size 0RB Offset_side5_10mm

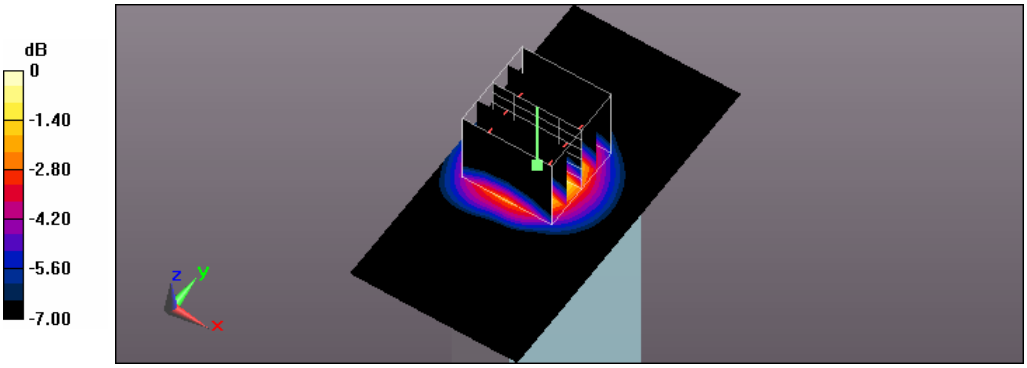
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.48 S/m; ε_r = 54.534; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.504 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.18 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.600 W/kg
SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.199 W/kg
Maximum value of SAR (measured) = 0.482 W/kg



0 dB = 0.482 W/kg = -3.17 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/4Time: PM 09:12:24

93_LTE Band2 CH18700_QPSK_BW 20MHz_100RB Size 0RB Offset_side1_10mm

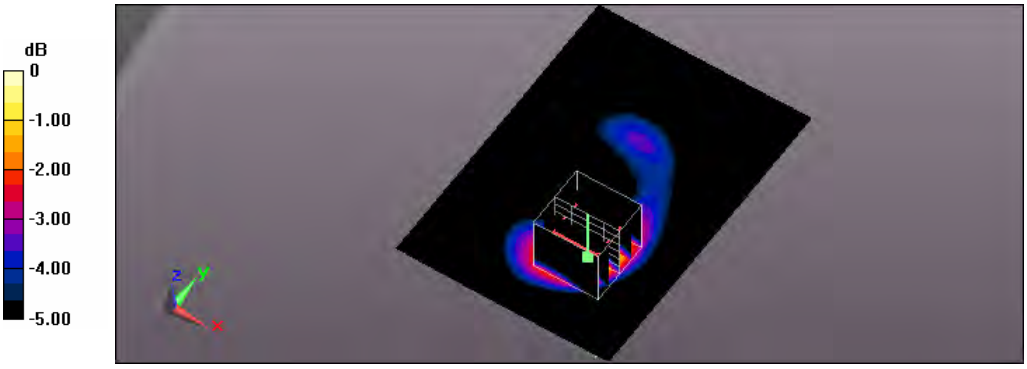
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1860 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1860 MHz; σ = 1.467 S/m; ε_r = 54.624; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.810 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.91 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.967 W/kg
SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.345 W/kg
Maximum value of SAR (measured) = 0.794 W/kg



0 dB = 0.794 W/kg = -1.00 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/5Time: AM 12:02:51

95_LTE Band4 CH20050_QPSK_BW 20MHz_1RB Size 0RB Offset_side1_10mm

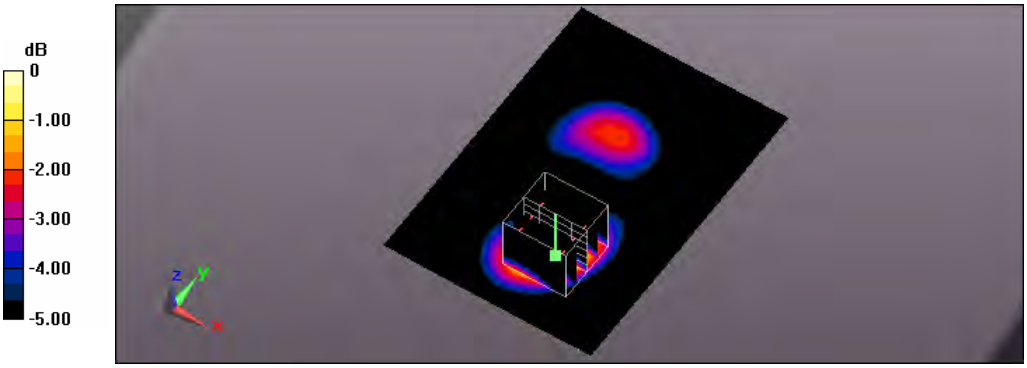
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1720 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1720 MHz; σ = 1.498 S/m; ε_r = 54.154; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.18 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.66 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.42 W/kg
SAR(1 g) = 0.860 W/kg; SAR(10 g) = 0.498 W/kg
Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/19Time: PM 08:20:22

1_LTE Band4 CH20175_QPSK_BW 20MHz_1RB Size 0RB Offset_side1_10mm

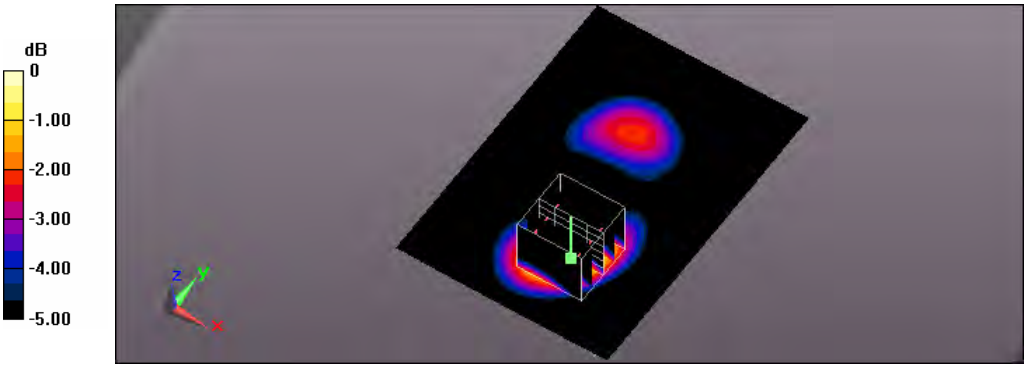
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 S/m; ε_r = 54.118; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.44 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.22 W/kg
SAR(1 g) = 0.745 W/kg; SAR(10 g) = 0.439 W/kg
Maximum value of SAR (measured) = 0.998 W/kg



0 dB = 0.998 W/kg = -0.01 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/5Time: AM 12:19:45

96_LTE Band4 CH20300_QPSK_BW 20MHz_1RB Size 0RB Offset_side1_10mm

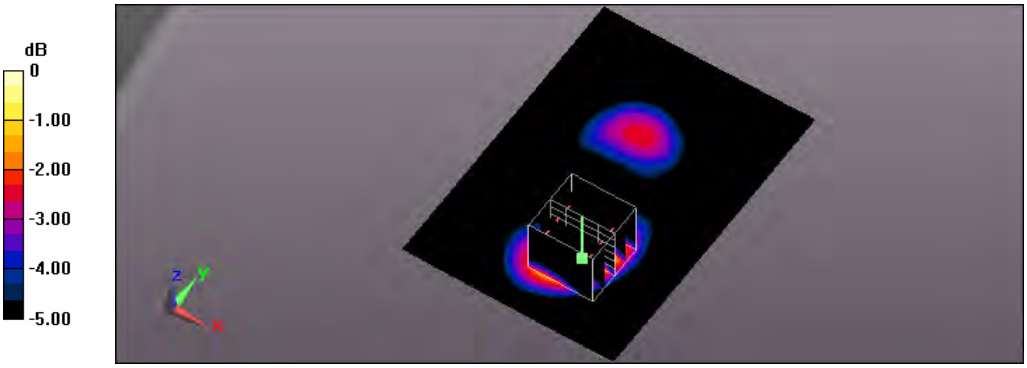
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1745 MHz; σ = 1.52 S/m; ε_r = 54.05; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.31 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.29 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.57 W/kg
SAR(1 g) = 0.950 W/kg; SAR(10 g) = 0.549 W/kg
Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/19Time: PM 09:25:41

4_LTE Band4 CH20175_QPSK_BW 20MHz_1RB Size 0RB Offset_side2_10mm

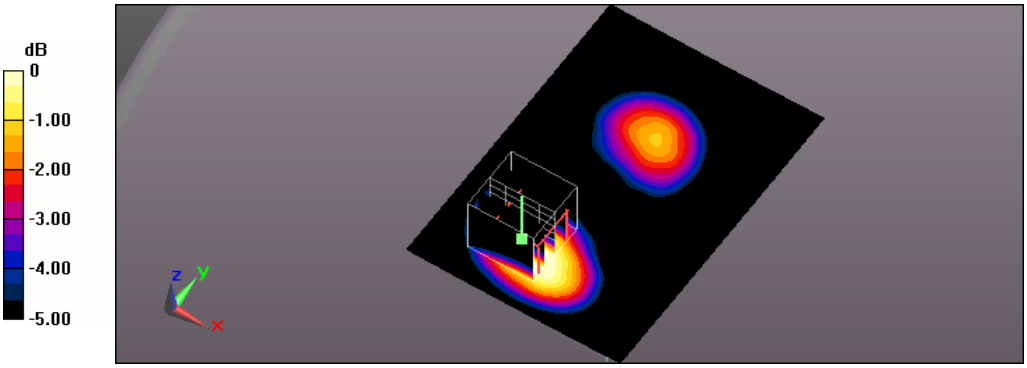
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 S/m; ε_r = 54.118; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.578 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.42 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.675 W/kg
SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.274 W/kg
Maximum value of SAR (measured) = 0.555 W/kg



0 dB = 0.555 W/kg = -2.56 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/19Time: PM 09:53:27

5_LTE Band4 CH20175_QPSK_BW 20MHz_1RB Size 0RB Offset_side3_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 S/m; ε_r = 54.118; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.143 W/kg

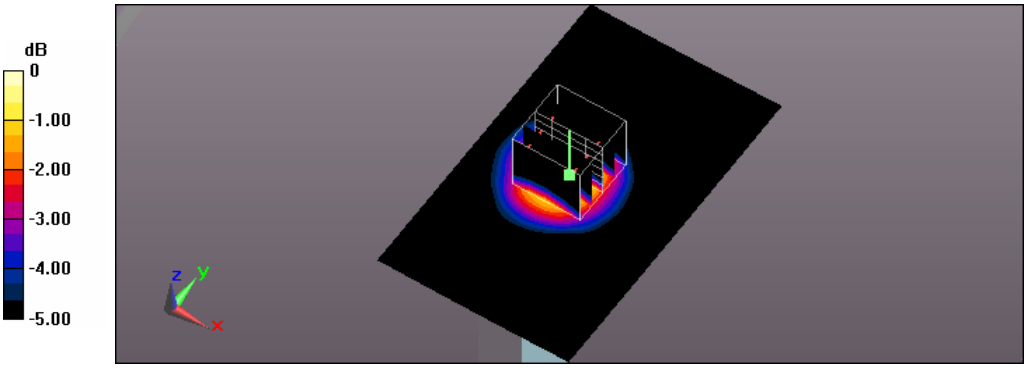
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.397 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.168 W/kg

SAR(1 g) = 0.109 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.141 W/kg



0 dB = 0.141 W/kg = -8.51 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/19Time: PM 10:53:55

8_LTE Band4 CH20175_QPSK_BW 20MHz_1RB Size 0RB Offset_side4_10mm

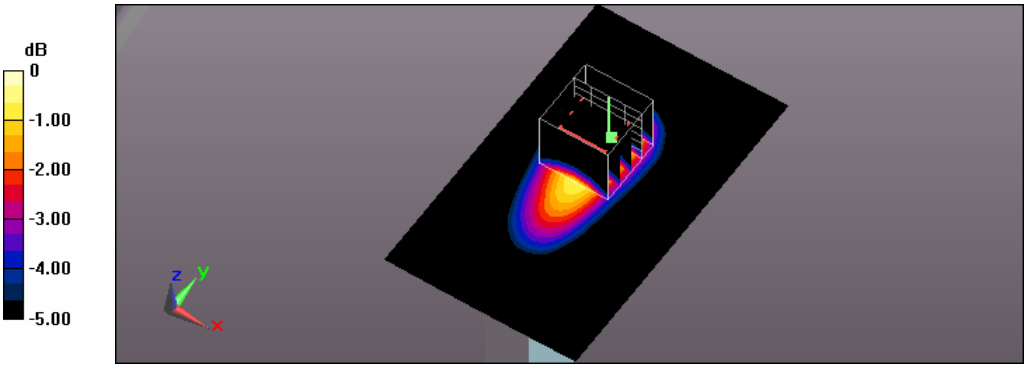
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 S/m; ε_r = 54.118; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.534 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.31 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.622 W/kg
SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.242 W/kg
Maximum value of SAR (measured) = 0.512 W/kg



0 dB = 0.512 W/kg = -2.91 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/19Time: PM 11:19:33

9_LTE Band4 CH20175_QPSK_BW 20MHz_1RB Size 0RB Offset_side5_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 S/m; ε_r = 54.118; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.756 W/kg

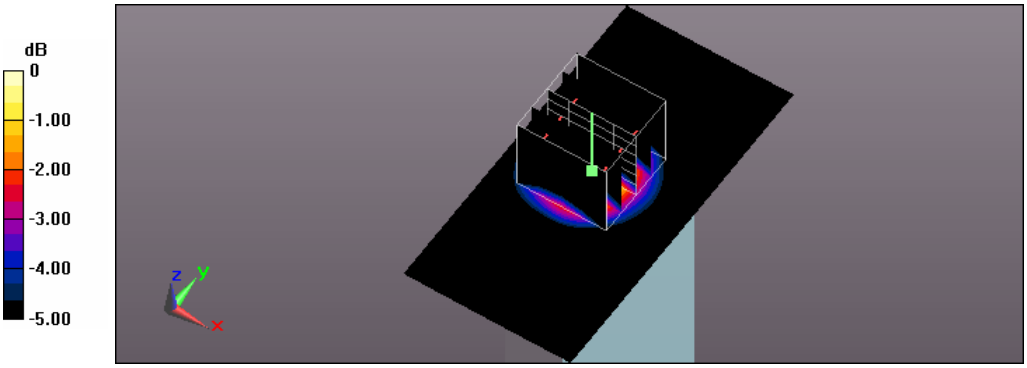
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.64 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.909 W/kg

SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.309 W/kg

Maximum value of SAR (measured) = 0.737 W/kg



0 dB = 0.737 W/kg = -1.33 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/19Time: PM 08:47:06

2_LTE Band4 CH20175_QPSK_BW 20MHz_50RB Size 0RB Offset_side1_10mm

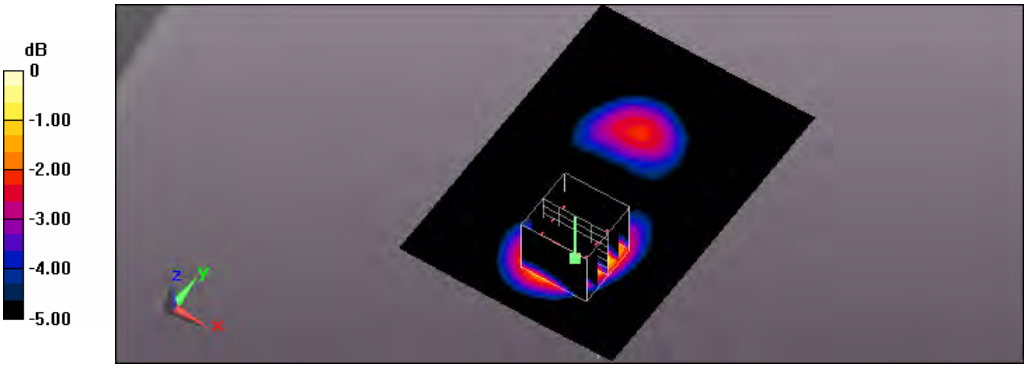
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 S/m; ε_r = 54.118; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.841 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.15 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.01 W/kg
SAR(1 g) = 0.617 W/kg; SAR(10 g) = 0.364 W/kg
Maximum value of SAR (measured) = 0.825 W/kg



0 dB = 0.825 W/kg = -0.84 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/19Time: PM 09:08:13

3_LTE Band4 CH20175_QPSK_BW 20MHz_50RB Size 0RB Offset_side2_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 S/m; ε_r = 54.118; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.480 W/kg

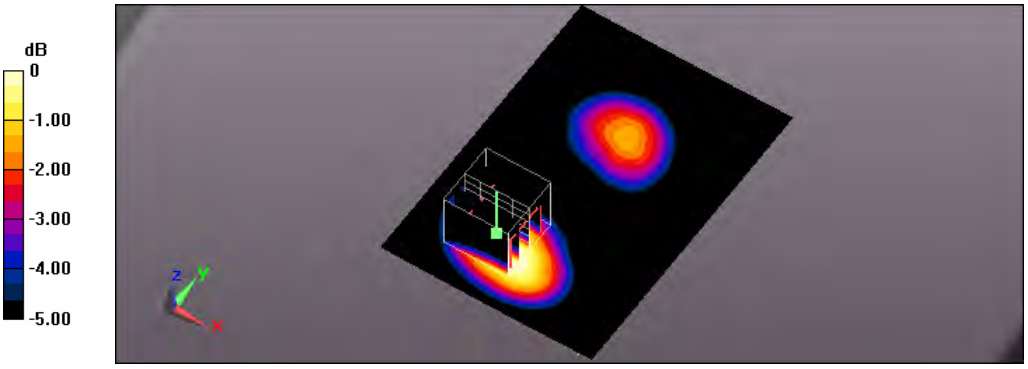
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.66 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.564 W/kg

SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.228 W/kg

Maximum value of SAR (measured) = 0.466 W/kg



0 dB = 0.466 W/kg = -3.32 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/19Time: PM 10:09:34

6_LTE Band4 CH20175_QPSK_BW 20MHz_50RB Size 0RB Offset_side3_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 S/m; ε_r = 54.118; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.114 W/kg

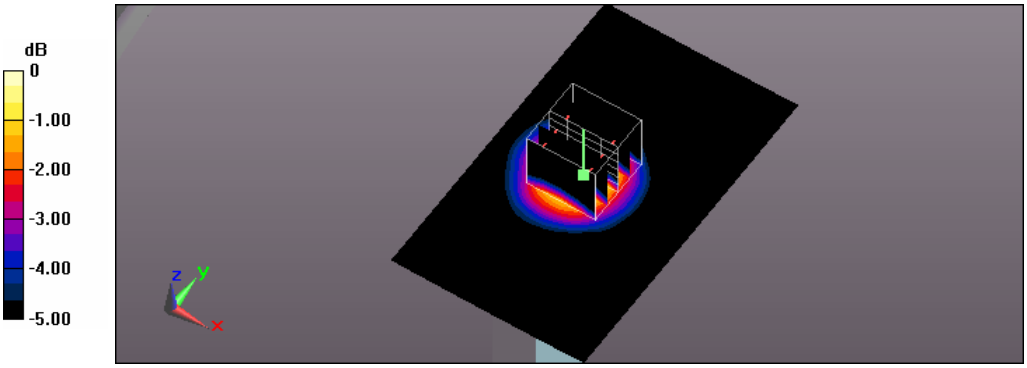
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.514 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.136 W/kg

SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.055 W/kg

Maximum value of SAR (measured) = 0.113 W/kg



0 dB = 0.113 W/kg = -9.47 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/19Time: PM 10:27:43

7_LTE Band4 CH20175_QPSK_BW 20MHz_50RB Size 0RB Offset_side4_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 S/m; ε_r = 54.118; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.446 W/kg

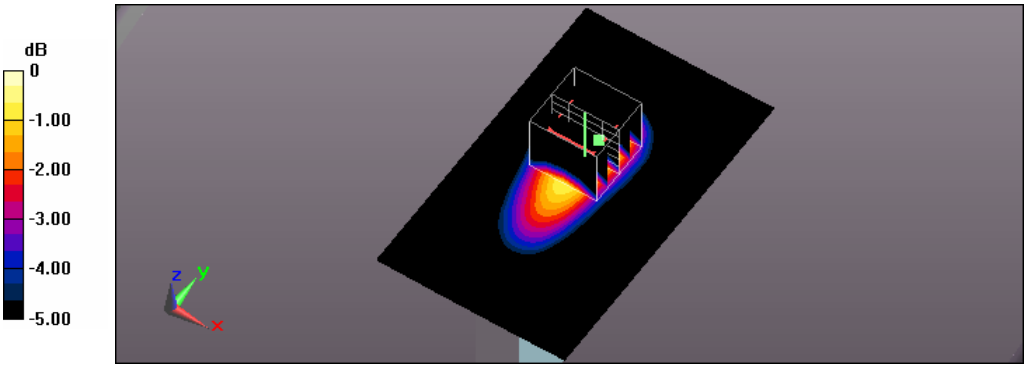
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.68 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.517 W/kg

SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.201 W/kg

Maximum value of SAR (measured) = 0.426 W/kg



0 dB = 0.426 W/kg = -3.71 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/19Time: PM 11:36:16

10_LTE Band4 CH20175_QPSK_BW 20MHz_50RB Size 0RB Offset_side5_10mm

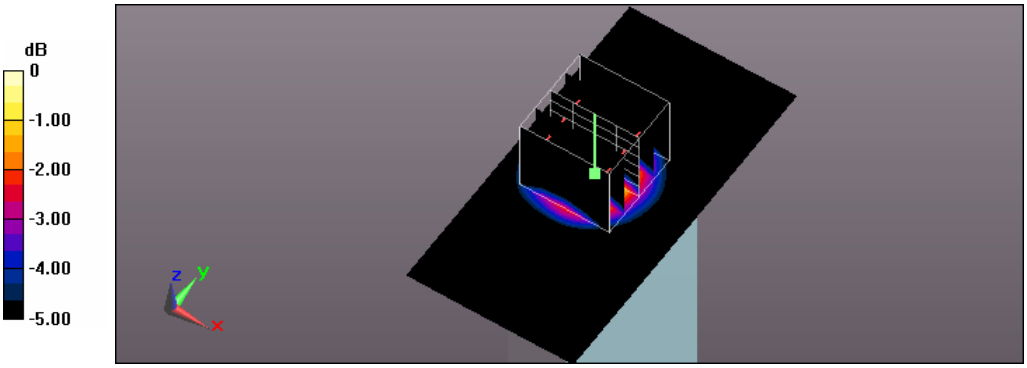
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 S/m; ε_r = 54.118; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.598 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.23 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.724 W/kg
SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.244 W/kg
Maximum value of SAR (measured) = 0.585 W/kg



0 dB = 0.585 W/kg = -2.33 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/5Time: AM 12:36:36

97_LTE Band4 CH20300_QPSK_BW 20MHz_100RB Size 0RB Offset_side1_10mm

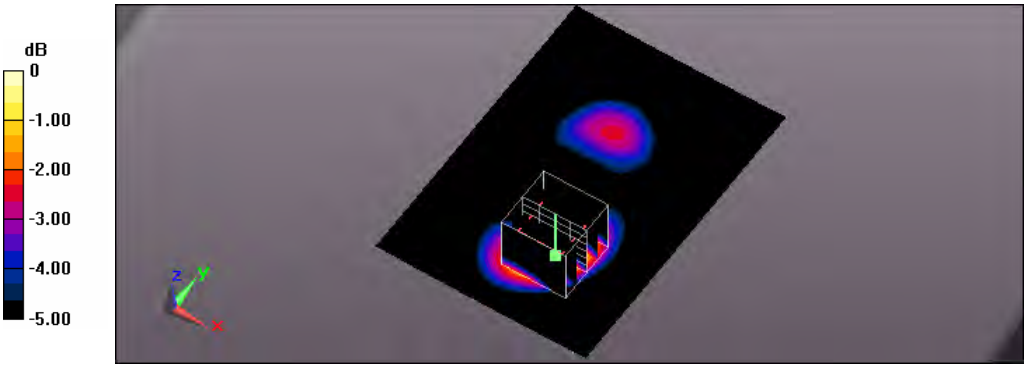
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1745 MHz; σ = 1.52 S/m; ε_r = 54.05; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.08 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.59 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.30 W/kg
SAR(1 g) = 0.781 W/kg; SAR(10 g) = 0.451 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 02:20:38

70_LTE Band5 CH20450_QPSK_BW 10MHz_1RB Size 0RB Offset_side1_10mm

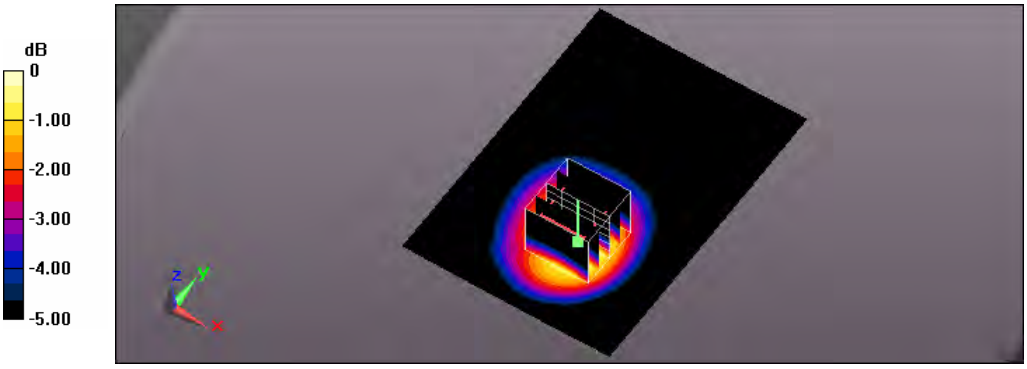
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 829 MHz;Duty Cycle: 1:1
Medium parameters used: f = 829 MHz; σ = 0.971 S/m; ε_r = 54.804; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.869 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.57 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.717 W/kg; SAR(10 g) = 0.502 W/kg
Maximum value of SAR (measured) = 0.875 W/kg



0 dB = 0.875 W/kg = -0.58 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 02:01:51

69_LTE Band5 CH20525_QPSK_BW 10MHz_1RB Size 0RB Offset_side1_10mm

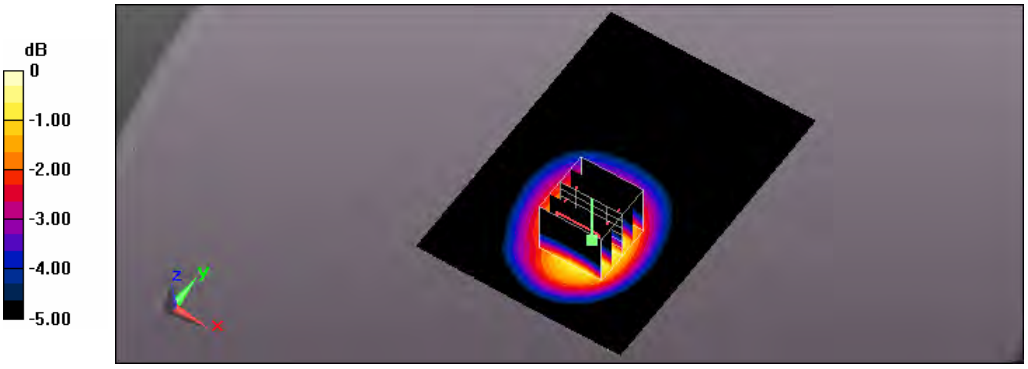
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.5 MHz; σ = 0.981 S/m; ε_r = 54.857; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.976 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.32 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.11 W/kg
SAR(1 g) = 0.796 W/kg; SAR(10 g) = 0.564 W/kg
Maximum value of SAR (measured) = 0.967 W/kg



0 dB = 0.967 W/kg = -0.15 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 02:44:02

71_LTE Band5 CH20600_QPSK_BW 10MHz_1RB Size 0RB Offset_side1_10mm

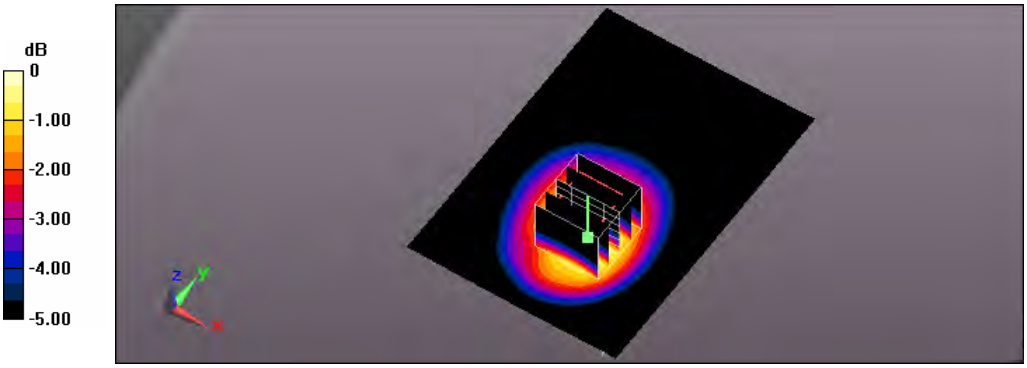
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 844 MHz;Duty Cycle: 1:1
Medium parameters used: f = 844 MHz; σ = 0.991 S/m; ε_r = 54.871; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.06 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.38 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.882 W/kg; SAR(10 g) = 0.631 W/kg
Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 03:47:17

74_LTE Band5 CH20450_QPSK_BW 10MHz_1RB Size 0RB Offset_side2_10mm

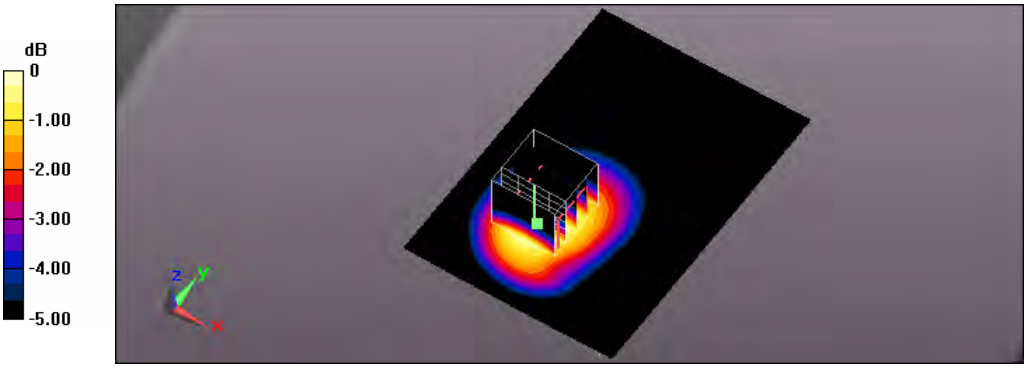
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 829 MHz;Duty Cycle: 1:1
Medium parameters used: f = 829 MHz; σ = 0.971 S/m; ε_r = 54.804; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.801 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.09 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 0.919 W/kg
SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.470 W/kg
Maximum value of SAR (measured) = 0.798 W/kg



0 dB = 0.798 W/kg = -0.98 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 03:26:34

73_LTE Band5 CH20525_QPSK_BW 10MHz_1RB Size 0RB Offset_side2_10mm

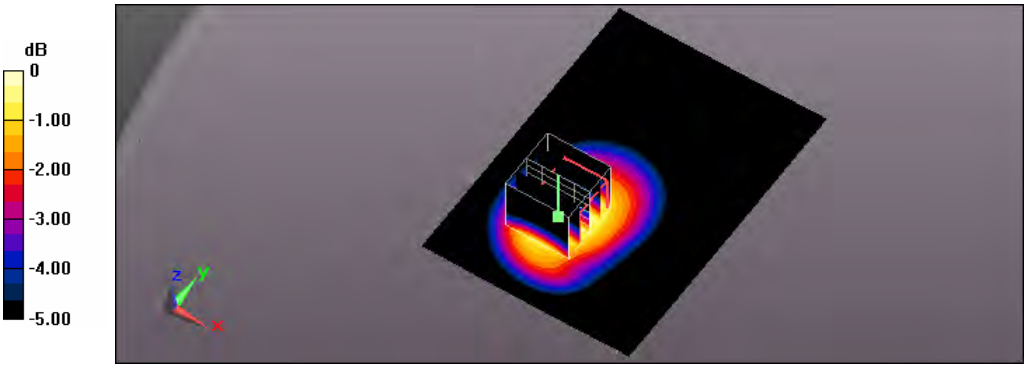
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.5 MHz; σ = 0.981 S/m; ε_r = 54.857; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.915 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.06 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.771 W/kg; SAR(10 g) = 0.549 W/kg
Maximum value of SAR (measured) = 0.923 W/kg



0 dB = 0.923 W/kg = -0.35 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 04:17:30

75_LTE Band5 CH20600_QPSK_BW 10MHz_1RB Size 0RB Offset_side2_10mm

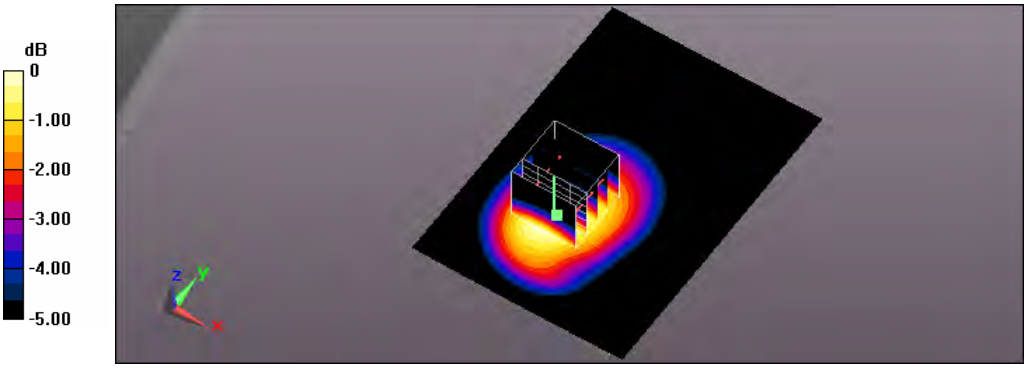
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 844 MHz;Duty Cycle: 1:1
Medium parameters used: f = 844 MHz; σ = 0.991 S/m; ε_r = 54.871; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.17 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.22 W/kg
SAR(1 g) = 0.897 W/kg; SAR(10 g) = 0.643 W/kg
Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 05:51:25

79_LTE Band5 CH20525_QPSK_BW 10MHz_1RB Size 0RB Offset_side3_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.981 S/m; ε_r = 54.857; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.509 W/kg

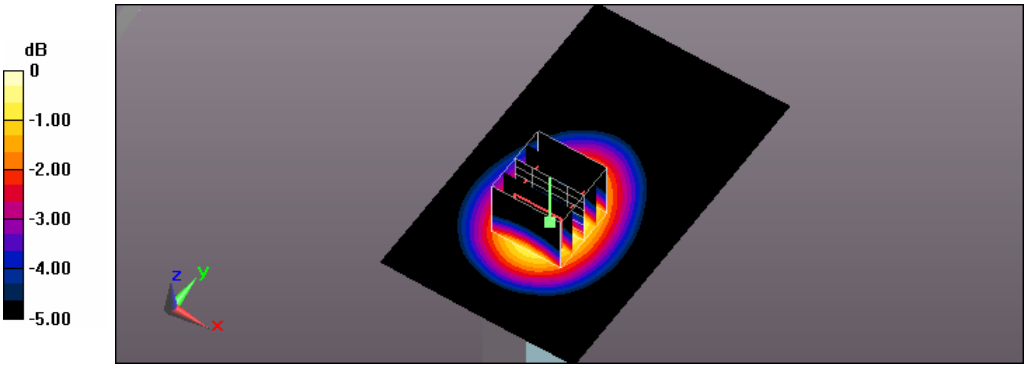
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.07 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.573 W/kg

SAR(1 g) = 0.423 W/kg; SAR(10 g) = 0.302 W/kg

Maximum value of SAR (measured) = 0.505 W/kg



0 dB = 0.505 W/kg = -2.97 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 06:26:36

81_LTE Band5 CH20525_QPSK_BW 10MHz_1RB Size 0RB Offset_side4_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.981 S/m; ε_r = 54.857; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.446 W/kg

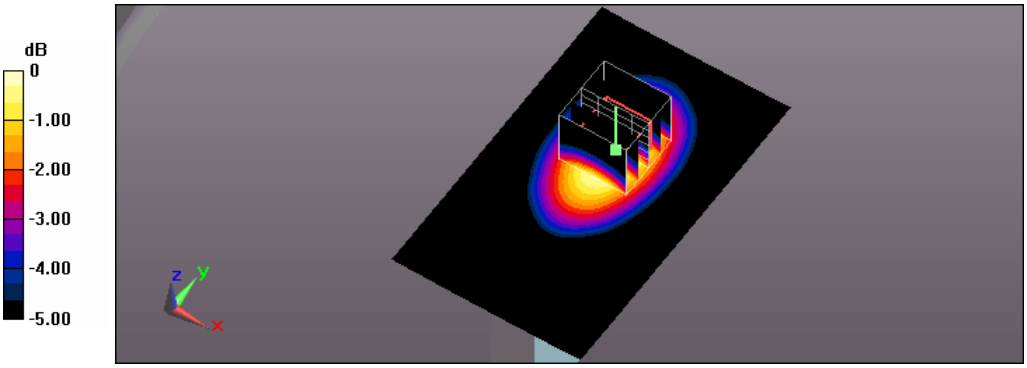
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.91 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.506 W/kg

SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.252 W/kg

Maximum value of SAR (measured) = 0.438 W/kg



0 dB = 0.438 W/kg = -3.59 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 07:00:53

83_LTE Band5 CH20525_QPSK_BW 10MHz_1RB Size 0RB Offset_side5_10mm

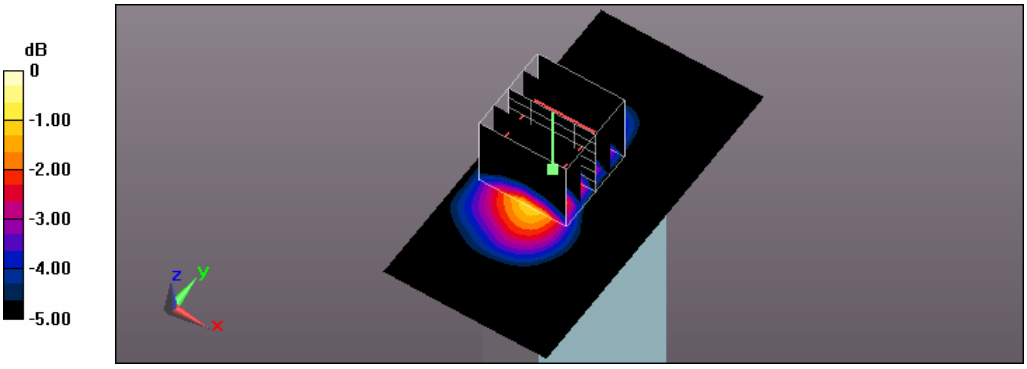
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.981 S/m; ε_r = 54.857; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.173 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.70 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.229 W/kg
SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.085 W/kg
Maximum value of SAR (measured) = 0.189 W/kg



0 dB = 0.189 W/kg = -7.24 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 05:26:26

78_LTE Band5 CH20525_QPSK_BW 10MHz_25RB Size 0RB Offset_side1_10mm

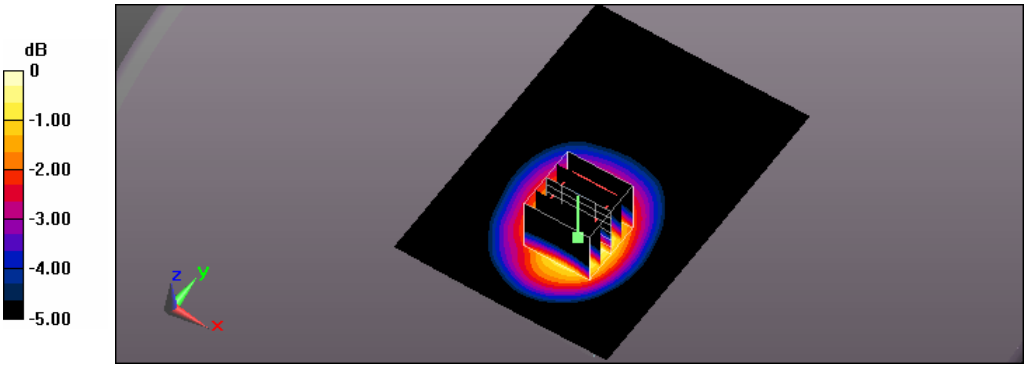
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.981 S/m; ε_r = 54.857; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.798 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.04 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.923 W/kg
SAR(1 g) = 0.655 W/kg; SAR(10 g) = 0.464 W/kg
Maximum value of SAR (measured) = 0.796 W/kg



0 dB = 0.796 W/kg = -0.99 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 05:03:57

77_LTE Band5 CH20525_QPSK_BW 10MHz_25RB Size 0RB Offset_side2_10mm

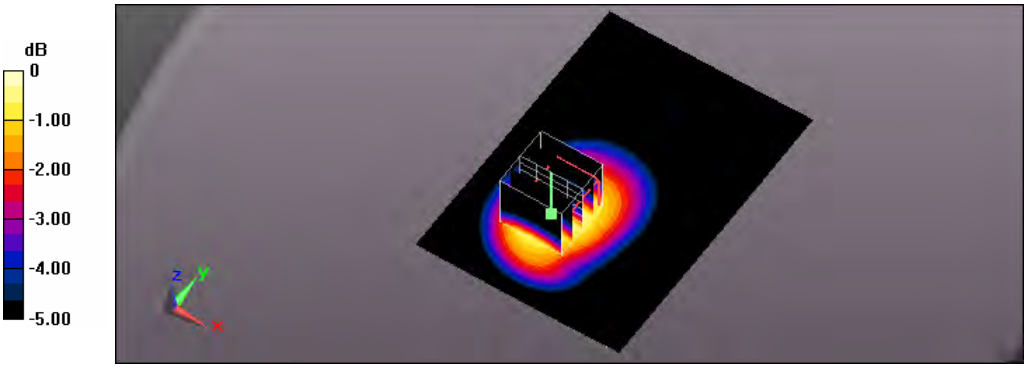
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.981 S/m; ε_r = 54.857; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.756 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.11 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.864 W/kg
SAR(1 g) = 0.634 W/kg; SAR(10 g) = 0.452 W/kg
Maximum value of SAR (measured) = 0.759 W/kg



0 dB = 0.759 W/kg = -1.20 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 06:07:33

80_LTE Band5 CH20525_QPSK_BW 10MHz_25RB Size 0RB Offset_side3_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.981 S/m; ε_r = 54.857; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.420 W/kg

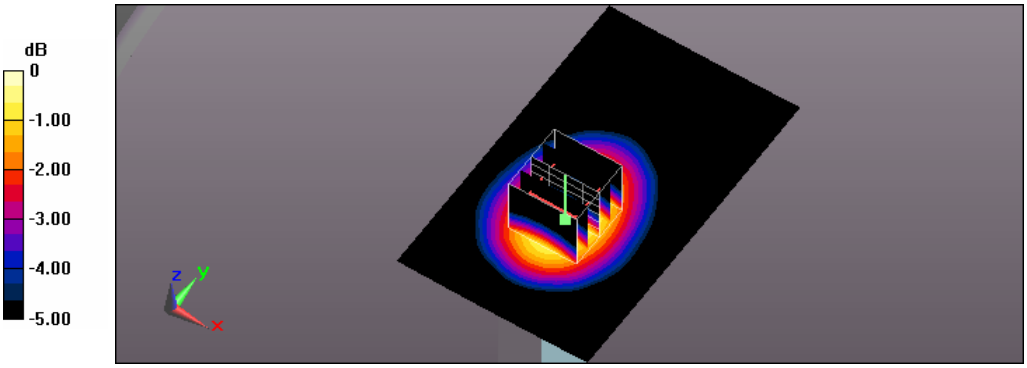
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.07 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.250 W/kg

Maximum value of SAR (measured) = 0.421 W/kg



0 dB = 0.421 W/kg = -3.76 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 06:42:26

82_LTE Band5 CH20525_QPSK_BW 10MHz_25RB Size 0RB Offset_side4_10mm

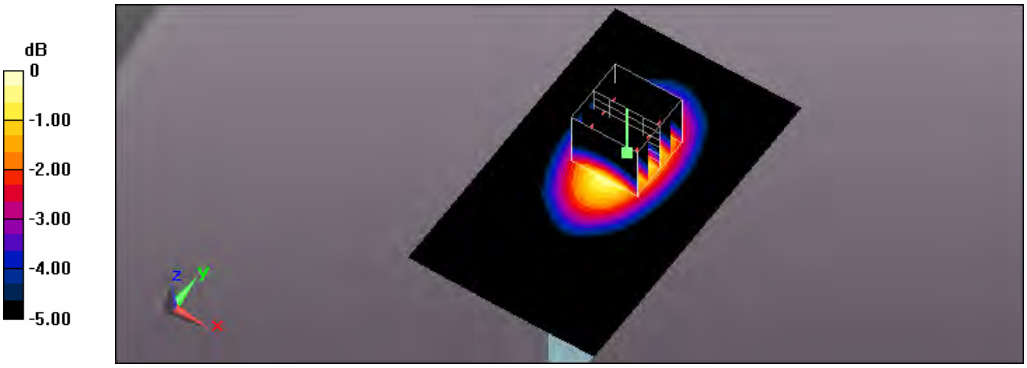
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.981 S/m; ε_r = 54.857; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.374 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.01 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.432 W/kg
SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.216 W/kg
Maximum value of SAR (measured) = 0.378 W/kg



0 dB = 0.378 W/kg = -4.23 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 07:14:00

84_LTE Band5 CH20525_QPSK_BW 10MHz_25RB Size 0RB Offset_side5_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.981 S/m; ε_r = 54.857; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.138 W/kg

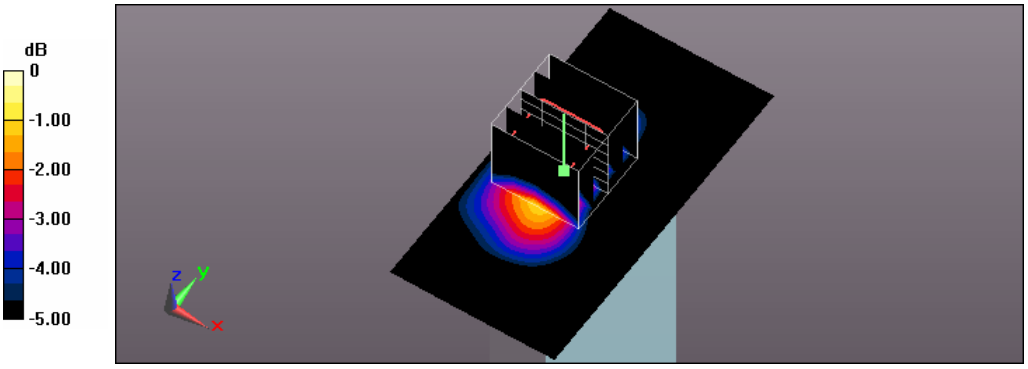
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.38 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.184 W/kg

SAR(1 g) = 0.113 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.151 W/kg



0 dB = 0.151 W/kg = -8.21 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/5Time: PM 01:02:39

72_LTE Band5 CH20600_QPSK_BW 10MHz_50RB Size 0RB Offset_side1_10mm

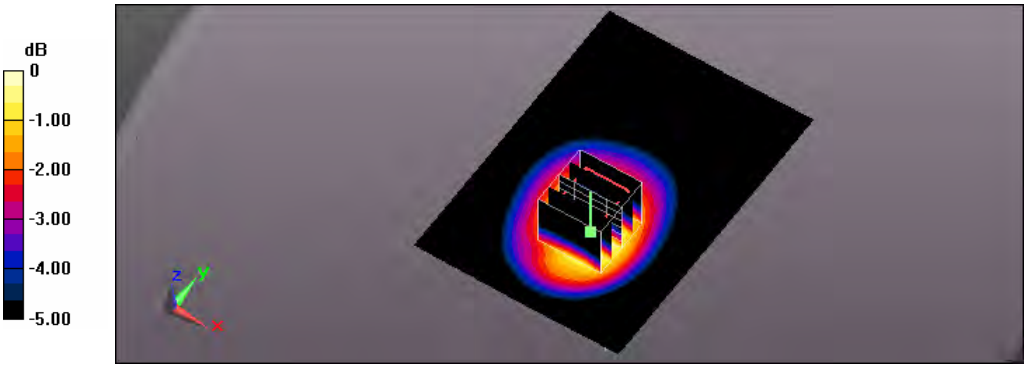
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 844 MHz;Duty Cycle: 1:1
Medium parameters used: f = 844 MHz; σ = 0.991 S/m; ε_r = 54.871; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.930 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.56 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.560 W/kg
Maximum value of SAR (measured) = 0.946 W/kg



0 dB = 0.946 W/kg = -0.24 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/5Time: PM 01:22:57

76_LTE Band5 CH20600_QPSK_BW 10MHz_50RB Size 0RB Offset_side2_10mm

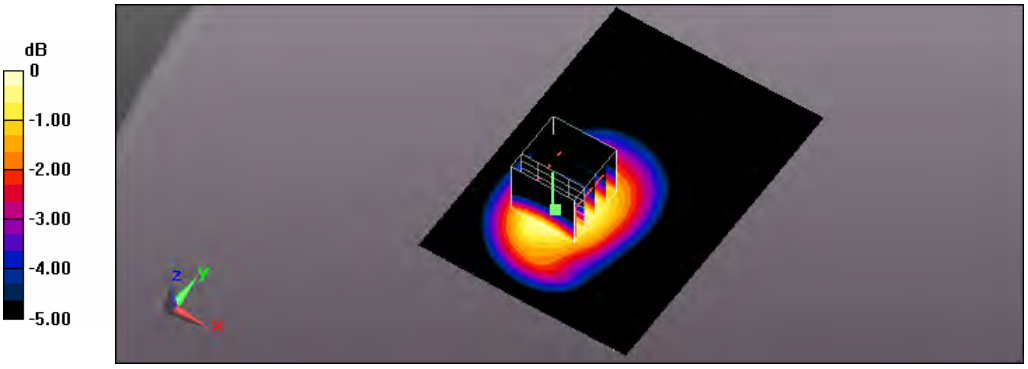
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 844 MHz;Duty Cycle: 1:1
Medium parameters used: f = 844 MHz; σ = 0.991 S/m; ε_r = 54.871; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.948 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.18 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.810 W/kg; SAR(10 g) = 0.581 W/kg
Maximum value of SAR (measured) = 0.965 W/kg



0 dB = 0.965 W/kg = -0.15 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: AM 10:57:55

12_LTE Band7 CH20850_QPSK_BW 20MHz_1RB Size 0RB Offset_side1_10mm

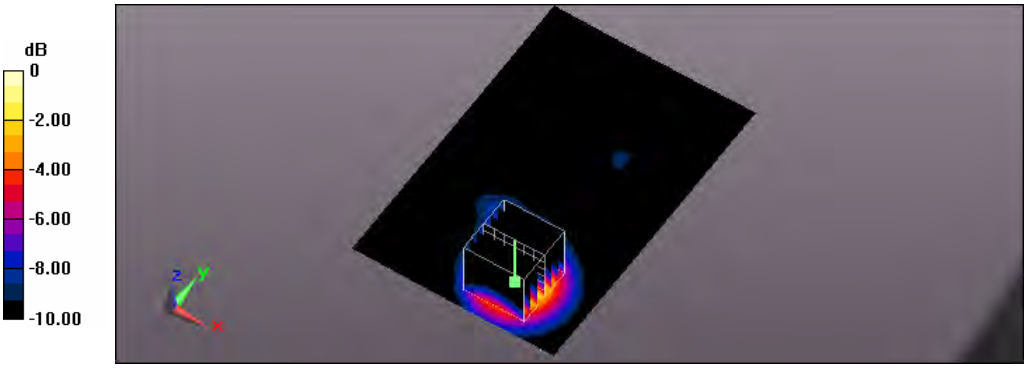
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2510 MHz; σ = 2.096 S/m; ε_r = 51.179; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.53 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.00 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.521 W/kg
Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: AM 10:12:27

11_LTE Band7 CH21100_QPSK_BW 20MHz_1RB Size 0RB Offset_side1_10mm

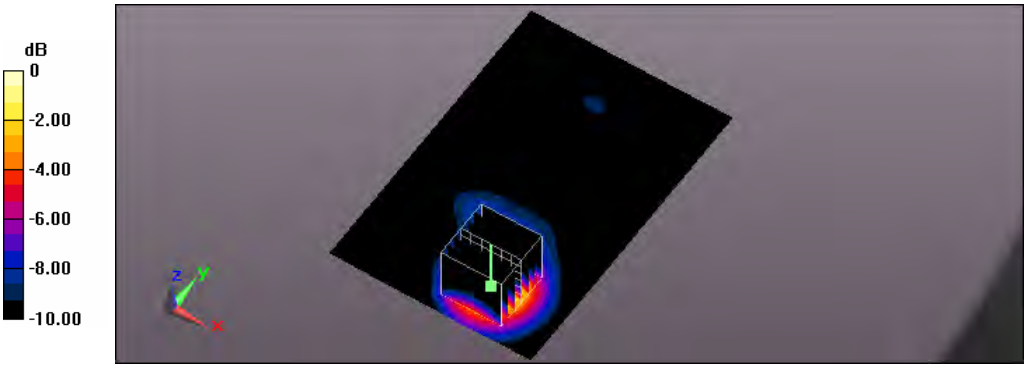
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.134 S/m; ε_r = 51.104; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.60 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.05 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.97 W/kg
SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.520 W/kg
Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.54 W/kg = 1.88 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: AM 11:36:31

13_LTE Band7 CH21350_QPSK_BW 20MHz_1RB Size 0RB Offset_side1_10mm

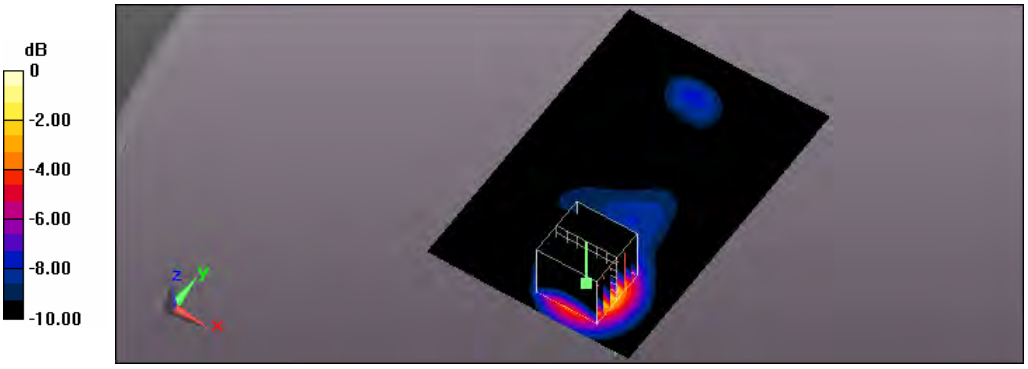
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2560 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2560 MHz; σ = 2.166 S/m; ε_r = 51.085; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.19, 7.19, 7.19); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.50 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.84 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.92 W/kg
SAR(1 g) = 1 W/kg; SAR(10 g) = 0.486 W/kg
Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.47 W/kg = 1.67 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: PM 04:01:09

18_LTE Band7 CH21100_QPSK_BW 20MHz_1RB Size 0RB Offset_side2_10mm

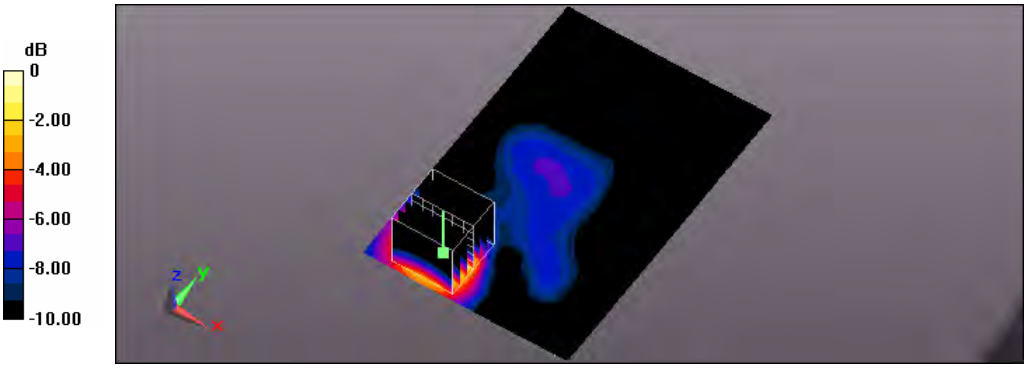
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.134 S/m; ε_r = 51.104; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.926 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.36 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.11 W/kg
SAR(1 g) = 0.604 W/kg; SAR(10 g) = 0.310 W/kg
Maximum value of SAR (measured) = 0.860 W/kg



0 dB = 0.860 W/kg = -0.66 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: PM 05:44:19

20_LTE Band7 CH21100_QPSK_BW 20MHz_1RB Size 0RB Offset_side3_10mm

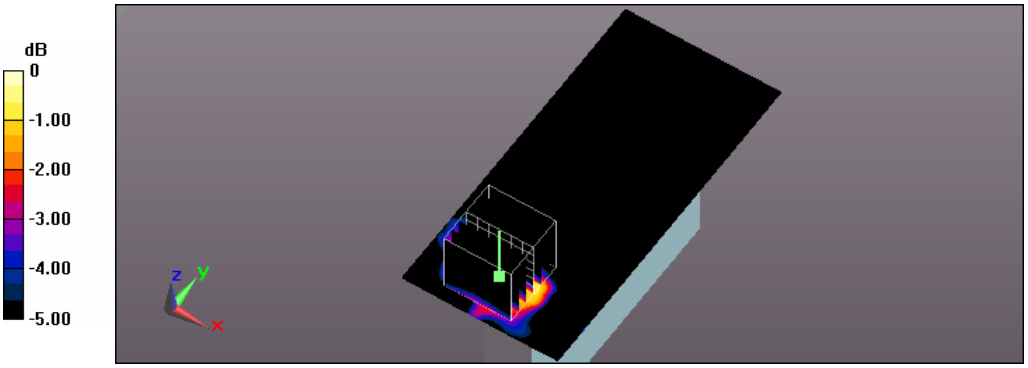
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.134 S/m; ε_r = 51.104; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0857 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.452 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.109 W/kg
SAR(1 g) = 0.061 W/kg; SAR(10 g) = 0.034 W/kg
Maximum value of SAR (measured) = 0.0845 W/kg



0 dB = 0.0845 W/kg = -10.73 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: PM 07:48:56

23_LTE Band7 CH21100_QPSK_BW 20MHz_1RB Size 0RB Offset_side4_10mm

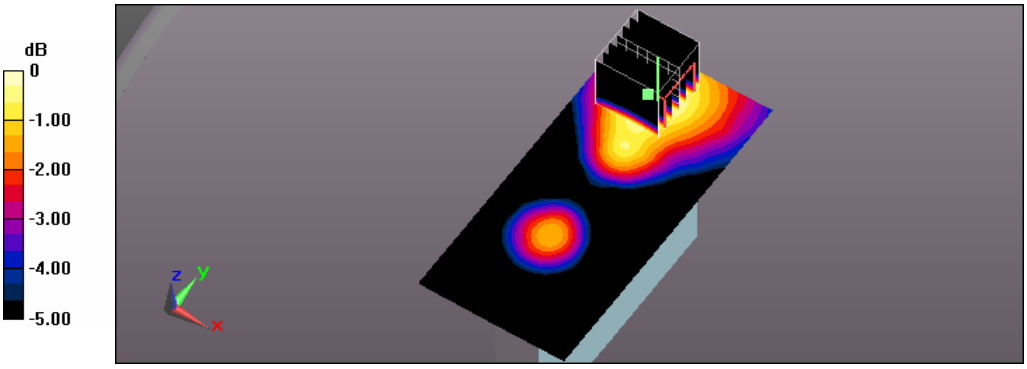
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.134 S/m; ε_r = 51.104; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.298 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.24 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.385 W/kg
SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.135 W/kg
Maximum value of SAR (measured) = 0.306 W/kg



0 dB = 0.306 W/kg = -5.14 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: PM 09:12:35

25_LTE Band7 CH20850_QPSK_BW 20MHz_1RB Size 0RB Offset_side5_10mm

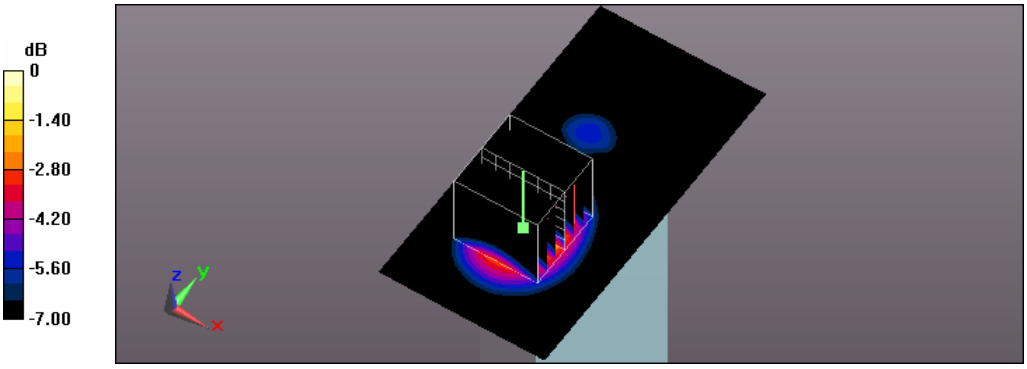
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2510 MHz; σ = 2.096 S/m; ε_r = 51.179; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.98 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 30.81 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.47 W/kg
SAR(1 g) = 1.35 W/kg; SAR(10 g) = 0.678 W/kg
Maximum value of SAR (measured) = 1.94 W/kg



0 dB = 1.94 W/kg = 2.88 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: PM 08:48:53

24_LTE Band7 CH21100_QPSK_BW 20MHz_1RB Size 0RB Offset_side5_10mm

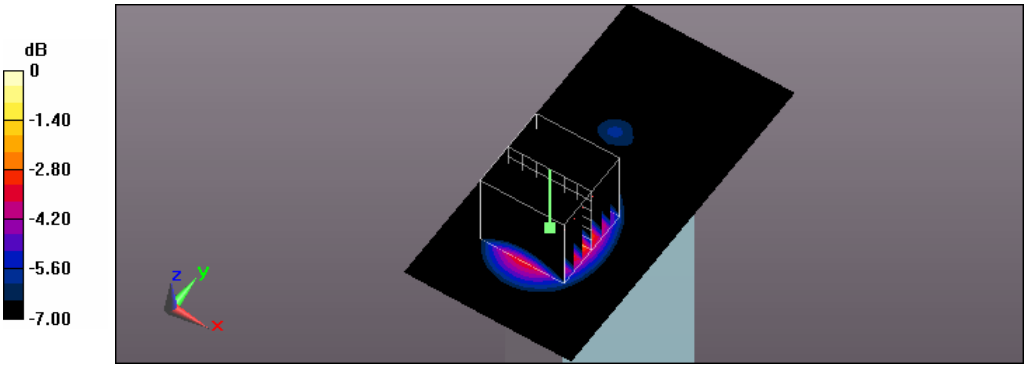
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.134 S/m; ε_r = 51.104; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.99 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 30.60 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.52 W/kg
SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.673 W/kg
Maximum value of SAR (measured) = 1.97 W/kg



0 dB = 1.97 W/kg = 2.94 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: PM 09:35:59

26_LTE Band7 CH21350_QPSK_BW 20MHz_1RB Size 0RB Offset_side5_10mm

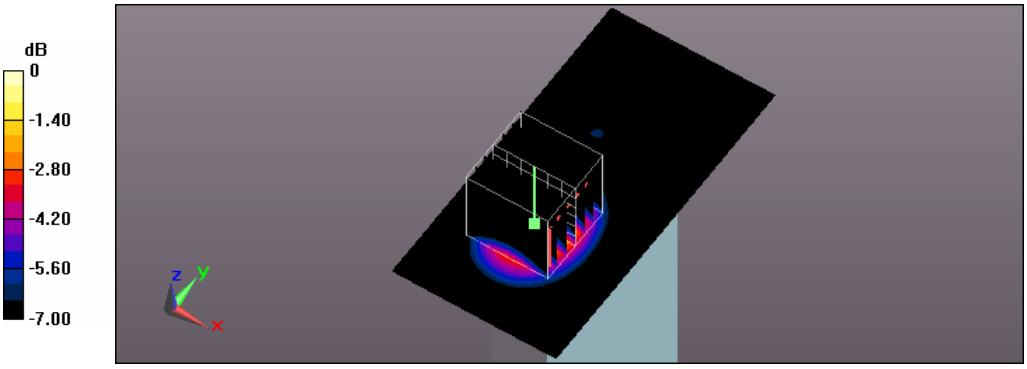
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2560 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2560 MHz; σ = 2.166 S/m; ε_r = 51.085; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.19, 7.19, 7.19); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.83 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.06 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 2.35 W/kg
SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.613 W/kg
Maximum value of SAR (measured) = 1.80 W/kg



0 dB = 1.80 W/kg = 2.55 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: PM 02:04:56

15_LTE Band7 CH20850_QPSK_BW 20MHz_50RB Size 0RB Offset_side1_10mm

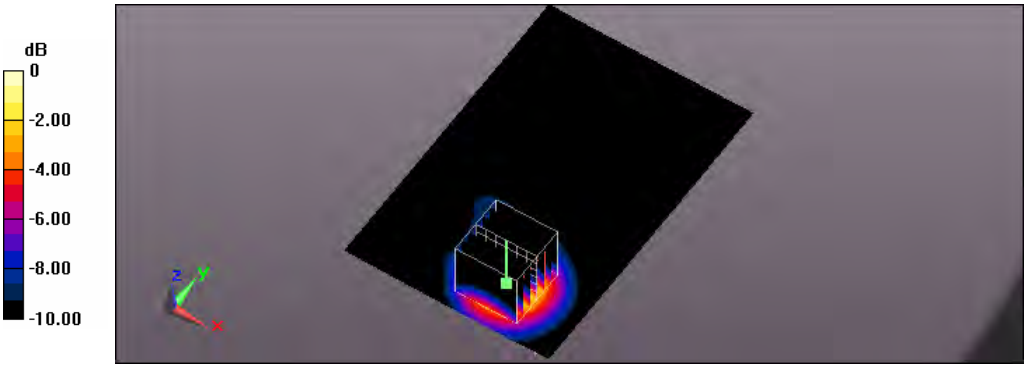
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2510 MHz; σ = 2.096 S/m; ε_r = 51.179; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.23 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 23.68 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.52 W/kg
SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.408 W/kg
Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: PM 02:43:38

16_LTE Band7 CH21100_QPSK_BW 20MHz_50RB Size 0RB Offset_side1_10mm

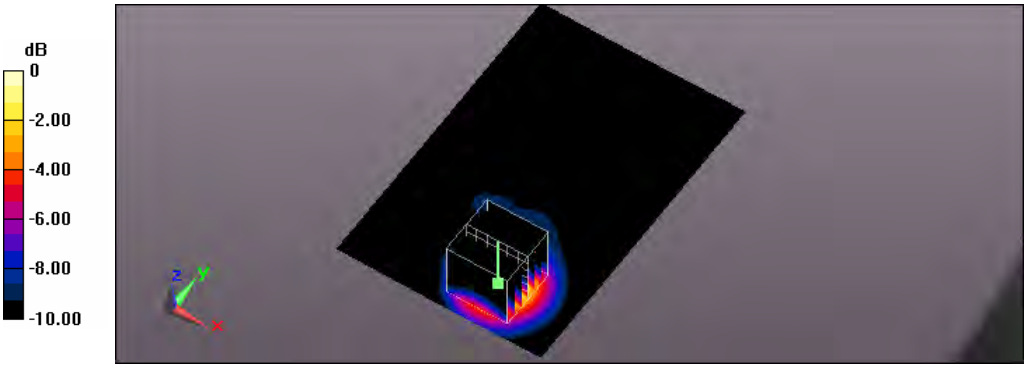
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.134 S/m; ε_r = 51.104; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.20 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 23.19 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.51 W/kg
SAR(1 g) = 0.806 W/kg; SAR(10 g) = 0.395 W/kg
Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: PM 01:04:41

14_LTE Band7 CH21350_QPSK_BW 20MHz_50RB Size 0RB Offset_side1_10mm

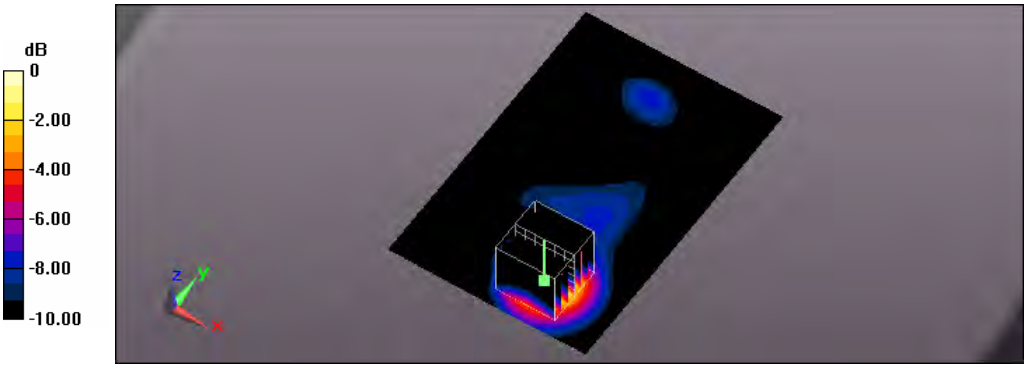
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2560 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2560 MHz; σ = 2.166 S/m; ε_r = 51.085; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.19, 7.19, 7.19); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.13 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.70 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.43 W/kg
SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.363 W/kg
Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/11Time: AM 12:44:13

19_LTE Band7 CH21100_QPSK_BW 20MHz_50RB Size 0RB Offset_side2_10mm

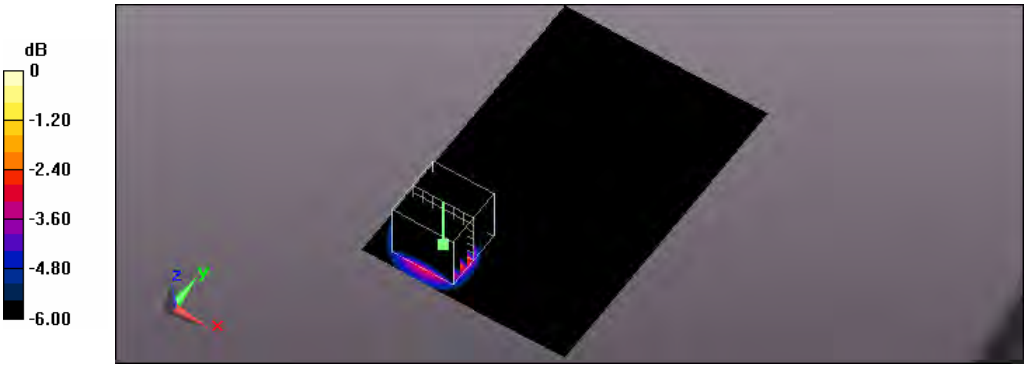
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.134 S/m; ε_r = 51.104; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.574 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.19 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.726 W/kg
SAR(1 g) = 0.391 W/kg; SAR(10 g) = 0.199 W/kg
Maximum value of SAR (measured) = 0.562 W/kg



0 dB = 0.562 W/kg = -2.50 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/10Time: PM 10:01:23

21_LTE Band7 CH21100_QPSK_BW 20MHz_50RB Size 0RB Offset_side3_10mm

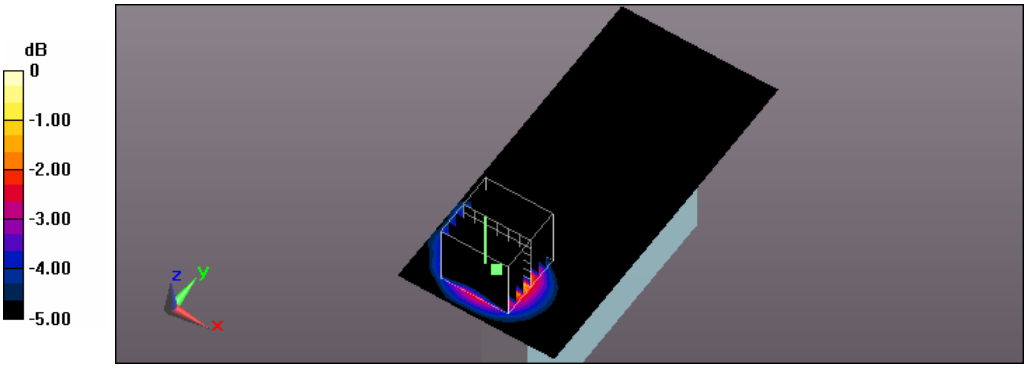
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.134 S/m; ε_r = 51.104; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0763 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.903 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.0980 W/kg
SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.028 W/kg
Maximum value of SAR (measured) = 0.0746 W/kg



0 dB = 0.0746 W/kg = -11.27 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/10Time: PM 10:29:56

22_LTE Band7 CH21100_QPSK_BW 20MHz_50RB Size 0RB Offset_side4_10mm

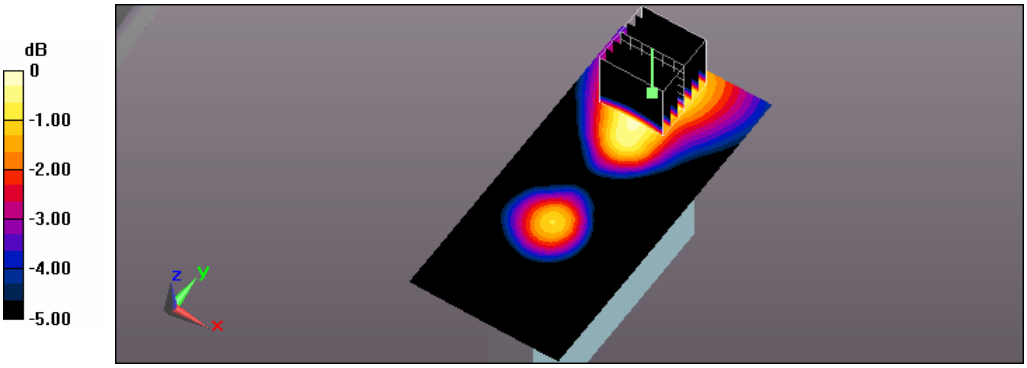
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.134 S/m; ε_r = 51.104; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.290 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.01 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.373 W/kg
SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.124 W/kg
Maximum value of SAR (measured) = 0.293 W/kg



0 dB = 0.293 W/kg = -5.33 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: PM 10:21:54

28_LTE Band7 CH20850_QPSK_BW 20MHz_50RB Size 0RB Offset_side5_10mm

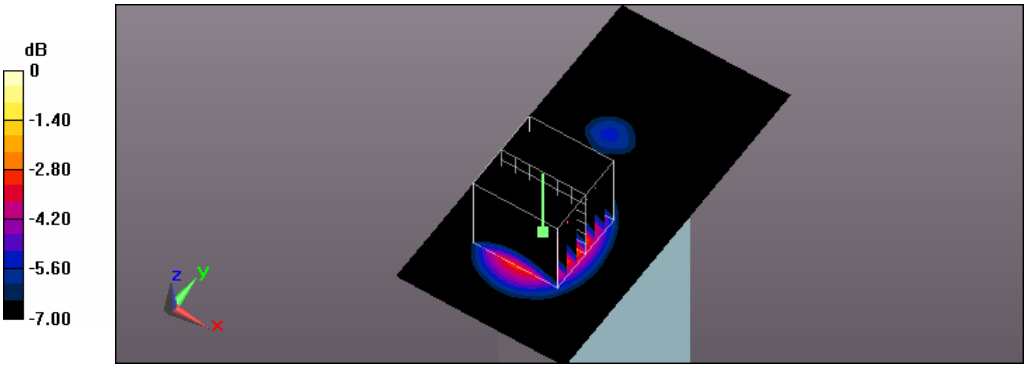
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2510 MHz; σ = 2.096 S/m; ε_r = 51.179; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.61 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.85 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.03 W/kg
SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.553 W/kg
Maximum value of SAR (measured) = 1.59 W/kg



0 dB = 1.59 W/kg = 2.01 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: AM 12:37:07

29_LTE Band7 CH21100_QPSK_BW 20MHz_50RB Size 0RB Offset_side5_10mm

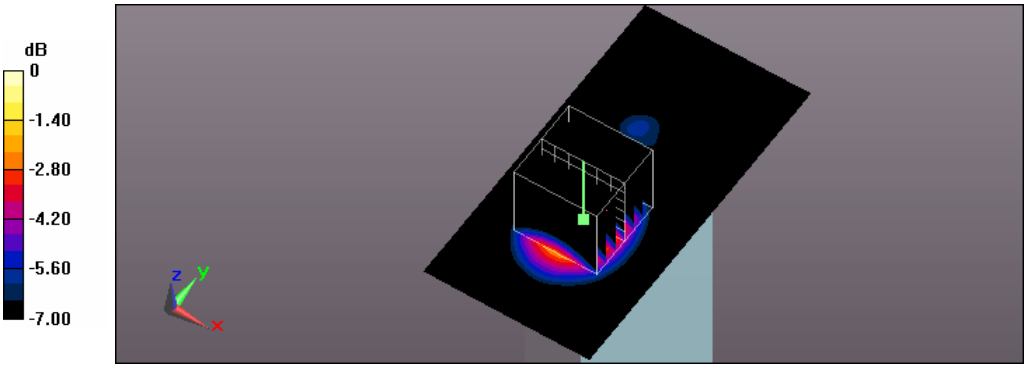
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.134 S/m; ε_r = 51.104; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.56 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.61 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.00 W/kg
SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.530 W/kg
Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/20Time: PM 09:58:50

27_LTE Band7 CH21350_QPSK_BW 20MHz_50RB Size 0RB Offset_side5_10mm

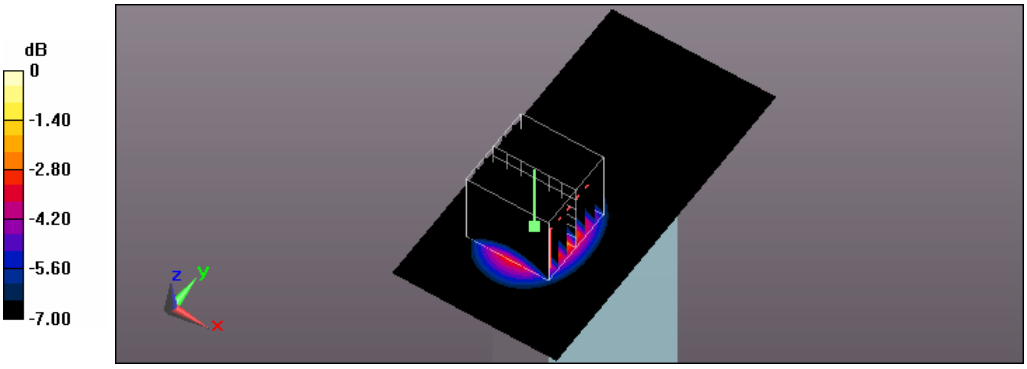
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2560 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2560 MHz; σ = 2.166 S/m; ε_r = 51.085; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.19, 7.19, 7.19); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.42 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.55 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.957 W/kg; SAR(10 g) = 0.468 W/kg
Maximum value of SAR (measured) = 1.39 W/kg



0 dB = 1.39 W/kg = 1.43 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/11Time: AM 01:21:54

17_LTE Band7 CH20850_QPSK_BW 20MHz_100RB Size 0RB Offset_side1_10mm

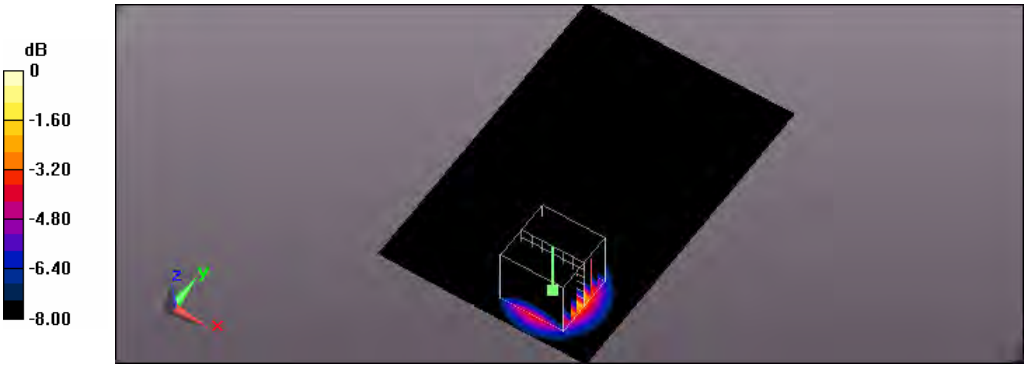
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2510 MHz; σ = 2.096 S/m; ε_r = 51.179; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.14 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 23.02 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.382 W/kg
Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/11Time: AM 12:15:44

30_LTE Band7 CH20850_QPSK_BW 20MHz_100RB Size 0RB Offset_side5_10mm

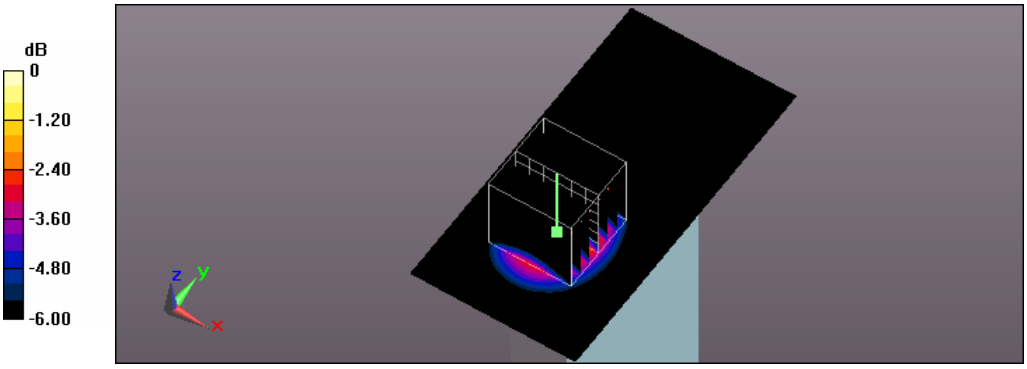
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2510 MHz; σ = 2.096 S/m; ε_r = 51.179; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.44 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.66 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 0.994 W/kg; SAR(10 g) = 0.500 W/kg
Maximum value of SAR (measured) = 1.43 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 03:33:21

33_LTE Band12 CH23060_QPSK_BW 10MHz_1RB Size 0RB Offset_side1_10mm

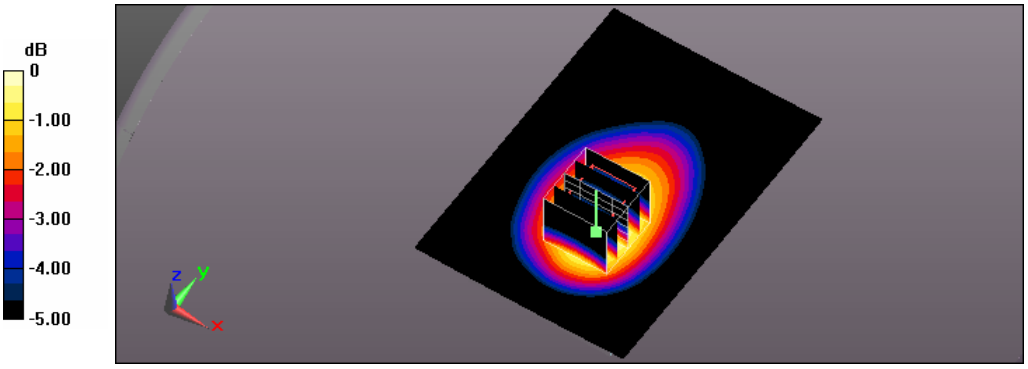
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 704 MHz;Duty Cycle: 1:1
Medium parameters used: f = 704 MHz; σ = 0.95 S/m; ε_r = 54.723; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.08 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.88 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.898 W/kg; SAR(10 g) = 0.661 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 03:04:16

32_LTE Band12 CH23095_QPSK_BW 10MHz_1RB Size 0RB Offset_side1_10mm

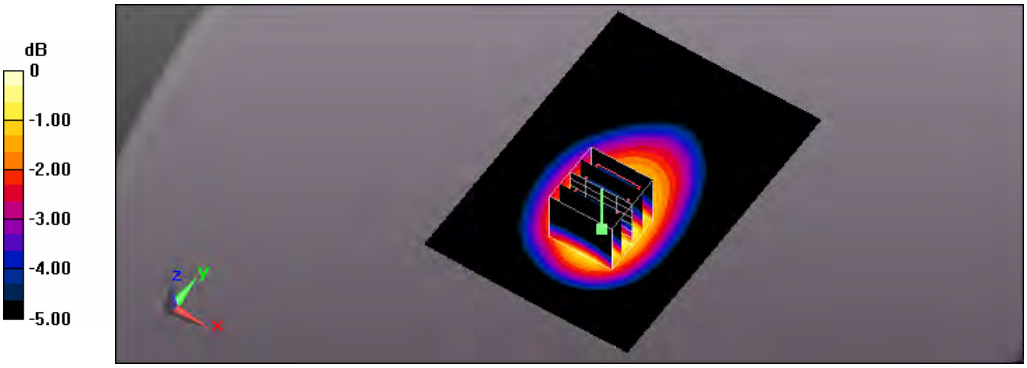
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used: f = 707.5 MHz; σ = 0.954 S/m; ε_r = 54.61; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.12 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.49 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.28 W/kg
SAR(1 g) = 0.958 W/kg; SAR(10 g) = 0.705 W/kg
Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 04:03:46

34_LTE Band12 CH23130_QPSK_BW 10MHz_1RB Size 0RB Offset_side1_10mm

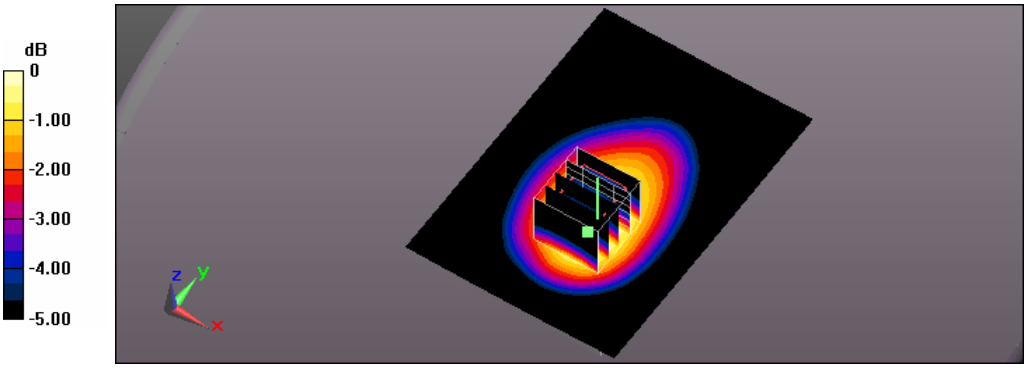
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 711 MHz;Duty Cycle: 1:1
Medium parameters used: f = 711 MHz; σ = 0.958 S/m; ε_r = 54.522; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.21 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 35.90 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.749 W/kg
Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 07:43:41

39_LTE Band12 CH23060_QPSK_BW 10MHz_1RB Size 0RB Offset_side2_10mm

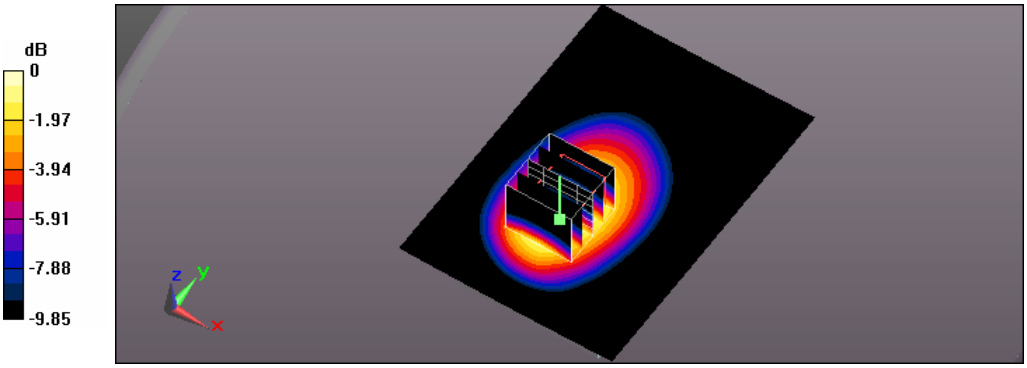
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 704 MHz;Duty Cycle: 1:1
Medium parameters used: f = 704 MHz; σ = 0.95 S/m; ε_r = 54.723; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.860 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.28 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.963 W/kg
SAR(1 g) = 0.721 W/kg; SAR(10 g) = 0.528 W/kg
Maximum value of SAR (measured) = 0.857 W/kg



0 dB = 0.857 W/kg = -0.67 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 07:21:12

38_LTE Band12 CH23095_QPSK_BW 10MHz_1RB Size 0RB Offset_side2_10mm

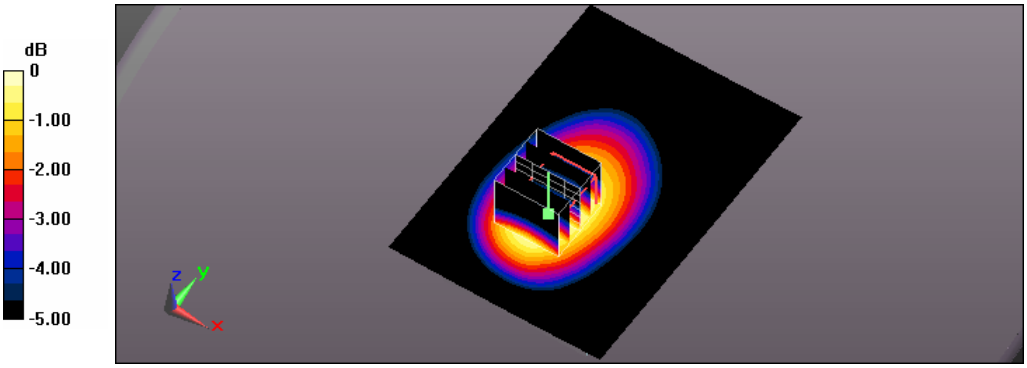
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.954 S/m; ε_r = 54.61; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.928 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.57 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.01 W/kg
SAR(1 g) = 0.770 W/kg; SAR(10 g) = 0.567 W/kg
Maximum value of SAR (measured) = 0.901 W/kg



0 dB = 0.901 W/kg = -0.45 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 08:04:19

40_LTE Band12 CH23130_QPSK_BW 10MHz_1RB Size 0RB Offset_side2_10mm

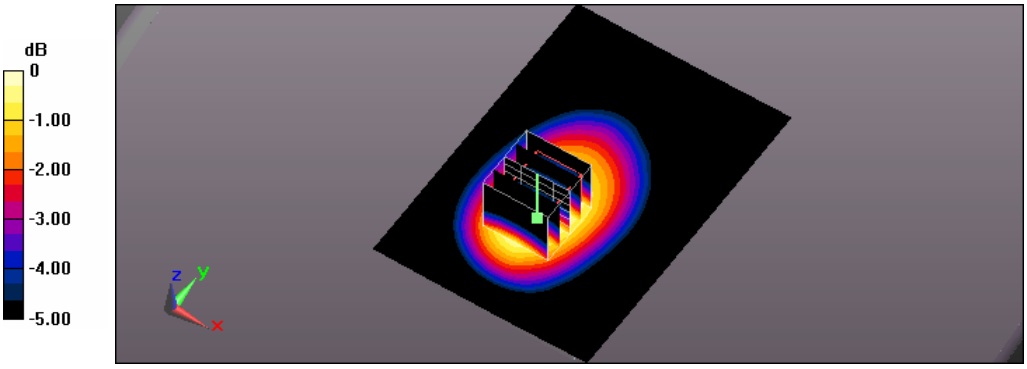
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 711 MHz;Duty Cycle: 1:1
Medium parameters used: f = 711 MHz; σ = 0.958 S/m; ε_r = 54.522; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.03 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.90 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.14 W/kg
SAR(1 g) = 0.862 W/kg; SAR(10 g) = 0.634 W/kg
Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 09:07:25

42_LTE Band12 CH23095_QPSK_BW 10MHz_1RB Size 0RB Offset_side3_10mm

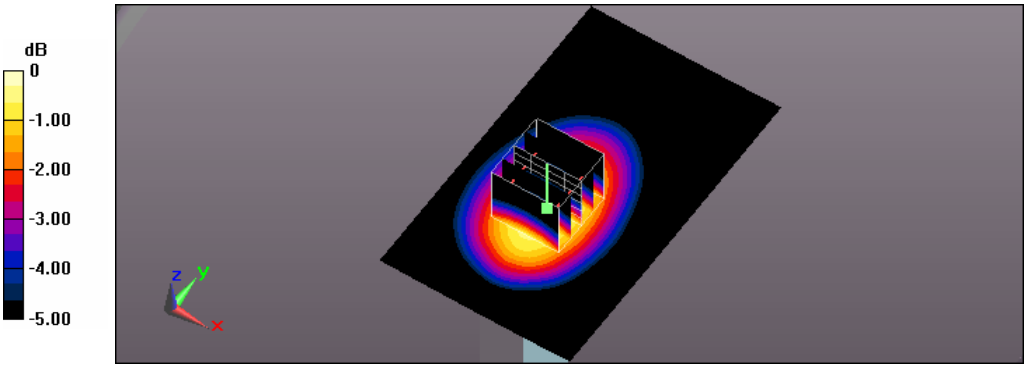
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.954 S/m; ε_r = 54.61; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.487 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.96 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.563 W/kg
SAR(1 g) = 0.415 W/kg; SAR(10 g) = 0.298 W/kg
Maximum value of SAR (measured) = 0.498 W/kg



0 dB = 0.498 W/kg = -3.03 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 09:43:44

44_LTE Band12 CH23095_QPSK_BW 10MHz_1RB Size 0RB Offset_side4_10mm

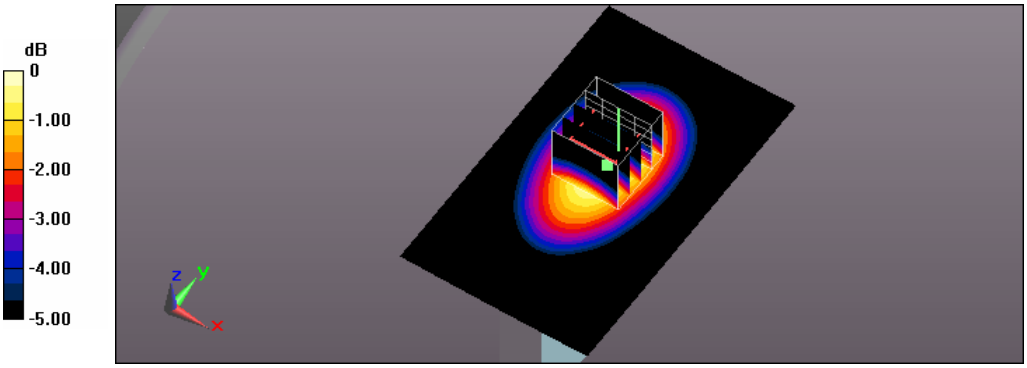
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.954 S/m; ε_r = 54.61; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.539 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.96 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.601 W/kg
SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.313 W/kg
Maximum value of SAR (measured) = 0.530 W/kg



0 dB = 0.530 W/kg = -2.76 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 10:22:55

46_LTE Band12 CH23095_QPSK_BW 10MHz_1RB Size 0RB Offset_side5_10mm

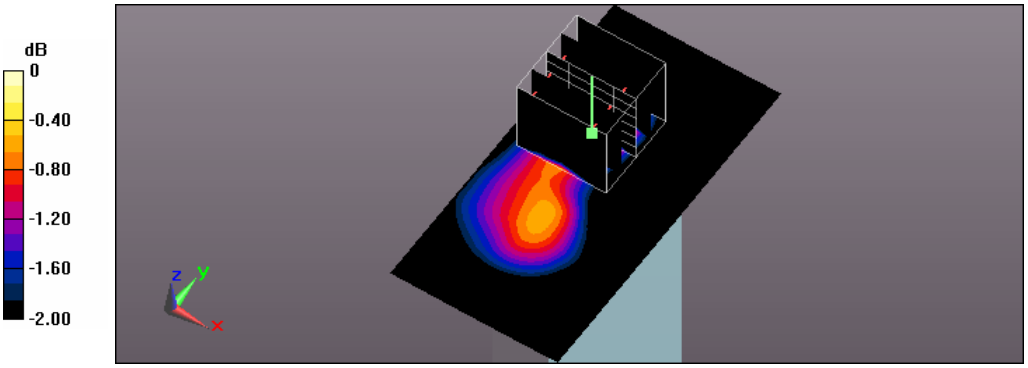
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.954 S/m; ε_r = 54.61; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0858 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.336 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.115 W/kg
SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.042 W/kg
Maximum value of SAR (measured) = 0.0895 W/kg



0 dB = 0.0895 W/kg = -10.48 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 06:31:26

36_LTE Band12 CH23060_QPSK_BW 10MHz_25RB Size 0RB Offset_side1_10mm

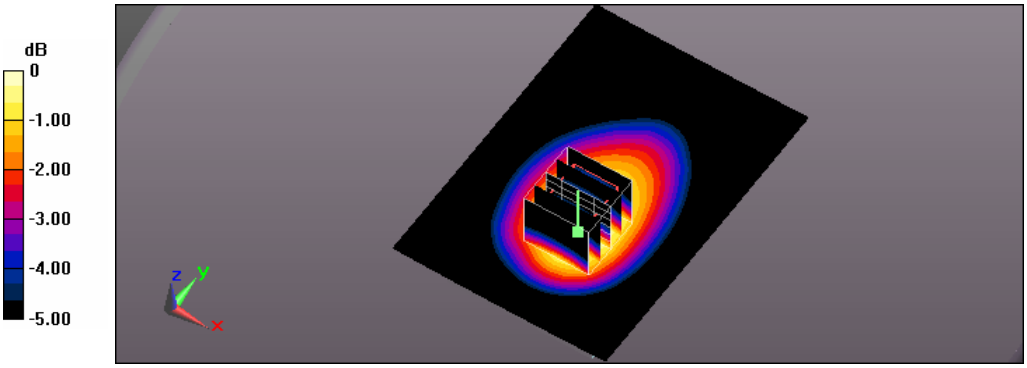
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 704 MHz;Duty Cycle: 1:1
Medium parameters used: f = 704 MHz; σ = 0.95 S/m; ε_r = 54.723; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.866 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.30 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.966 W/kg
SAR(1 g) = 0.720 W/kg; SAR(10 g) = 0.529 W/kg
Maximum value of SAR (measured) = 0.853 W/kg



0 dB = 0.853 W/kg = -0.69 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 04:41:11

35_LTE Band12 CH23095_QPSK_BW 10MHz_25RB Size 0RB Offset_side1_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.954 S/m; ε_r = 54.61; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.892 W/kg

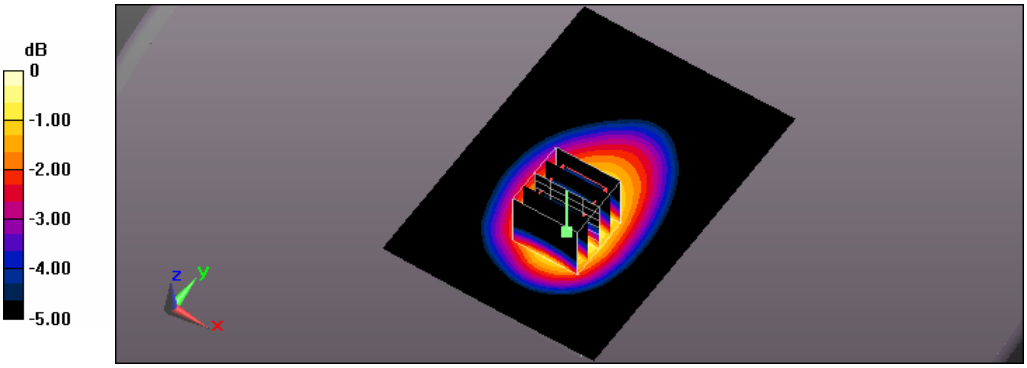
Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.95 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.762 W/kg; SAR(10 g) = 0.559 W/kg

Maximum value of SAR (measured) = 0.902 W/kg



0 dB = 0.902 W/kg = -0.45 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 06:54:07

37_LTE Band12 CH23130_QPSK_BW 10MHz_25RB Size 0RB Offset_side1_10mm

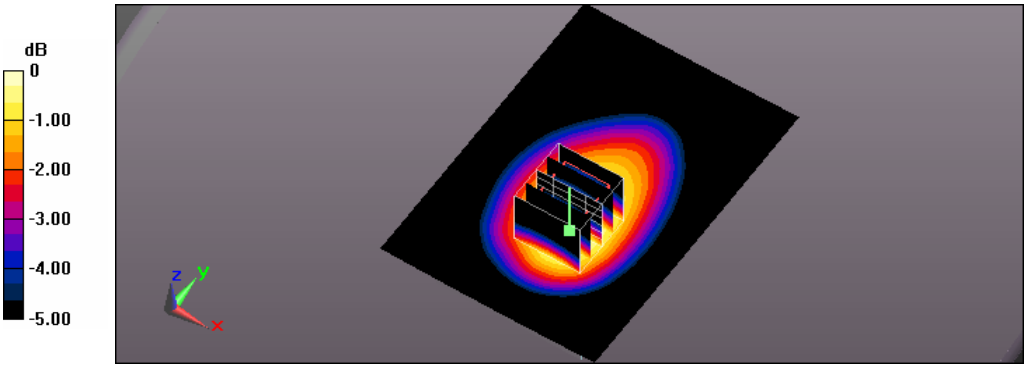
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 711 MHz;Duty Cycle: 1:1
Medium parameters used: f = 711 MHz; σ = 0.958 S/m; ε_r = 54.522; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.981 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.31 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.608 W/kg
Maximum value of SAR (measured) = 0.969 W/kg



0 dB = 0.969 W/kg = -0.14 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 08:23:33

41_LTE Band12 CH23095_QPSK_BW 10MHz_25RB Size 0RB Offset_side2_10mm

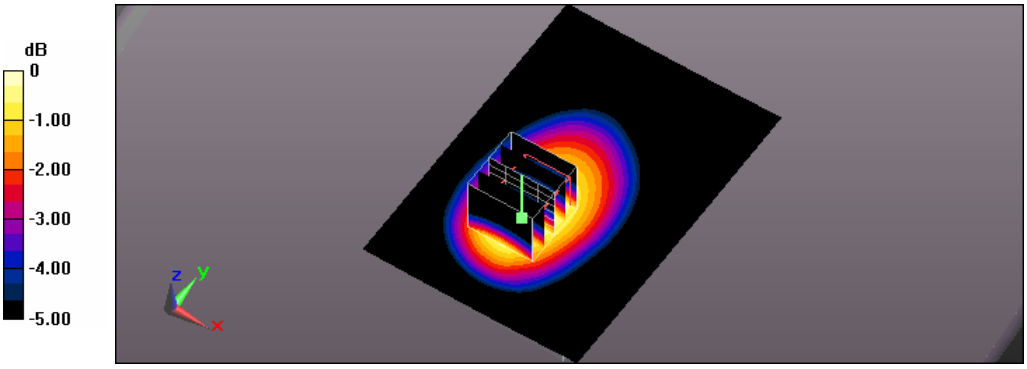
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.954 S/m; ε_r = 54.61; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.764 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.57 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.854 W/kg
SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.473 W/kg
Maximum value of SAR (measured) = 0.759 W/kg



0 dB = 0.759 W/kg = -1.20 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 09:24:10

43_LTE Band12 CH23095_QPSK_BW 10MHz_25RB Size 0RB Offset_side3_10mm

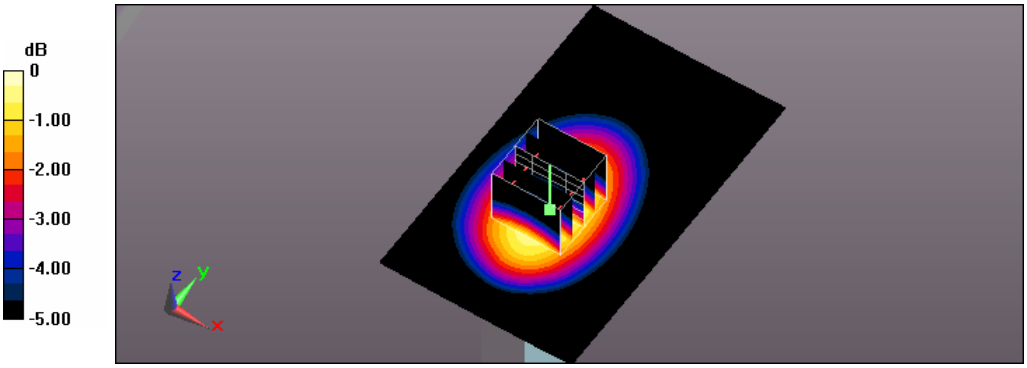
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.954 S/m; ε_r = 54.61; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.385 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.22 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.433 W/kg
SAR(1 g) = 0.320 W/kg; SAR(10 g) = 0.230 W/kg
Maximum value of SAR (measured) = 0.382 W/kg



0 dB = 0.382 W/kg = -4.18 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 10:01:12

45_LTE Band12 CH23095_QPSK_BW 10MHz_25RB Size 0RB Offset_side4_10mm

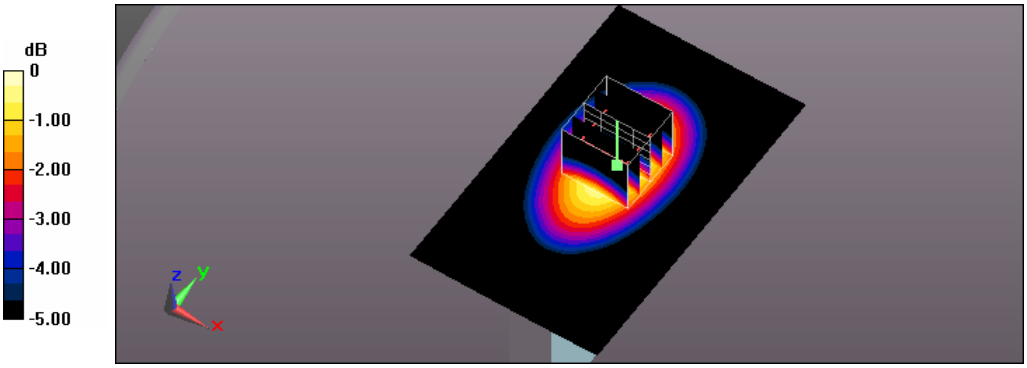
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.954 S/m; ε_r = 54.61; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.432 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.56 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.492 W/kg
SAR(1 g) = 0.356 W/kg; SAR(10 g) = 0.252 W/kg
Maximum value of SAR (measured) = 0.431 W/kg



0 dB = 0.431 W/kg = -3.66 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/21Time: PM 10:37:26

47_LTE Band12 CH23095_QPSK_BW 10MHz_25RB Size 0RB Offset_side5_10mm

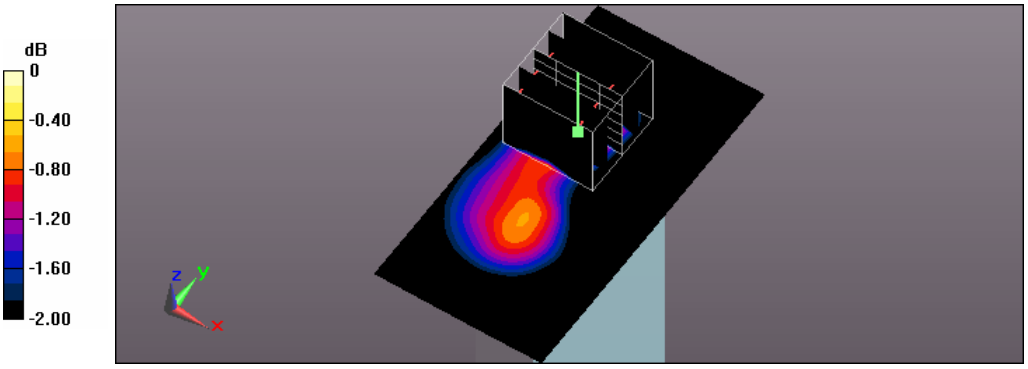
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.954 S/m; ε_r = 54.61; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0653 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.244 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.0890 W/kg
SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.033 W/kg
Maximum value of SAR (measured) = 0.0697 W/kg



0 dB = 0.0697 W/kg = -11.57 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/10Time: AM 09:27:40

48_LTE Band12 CH23130_QPSK_BW 10MHz_50RB Size 0RB Offset_side1_10mm

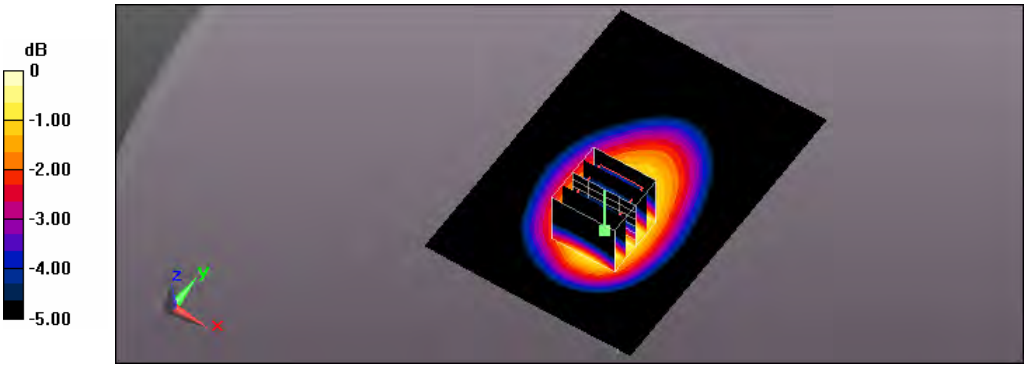
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 711 MHz;Duty Cycle: 1:1
Medium parameters used: f = 711 MHz; σ = 0.958 S/m; ε_r = 54.522; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.03 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.98 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.874 W/kg; SAR(10 g) = 0.647 W/kg
Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/10Time: AM 09:49:31

49_LTE Band12 CH23130_QPSK_BW 10MHz_50RB Size 0RB Offset_side2_10mm

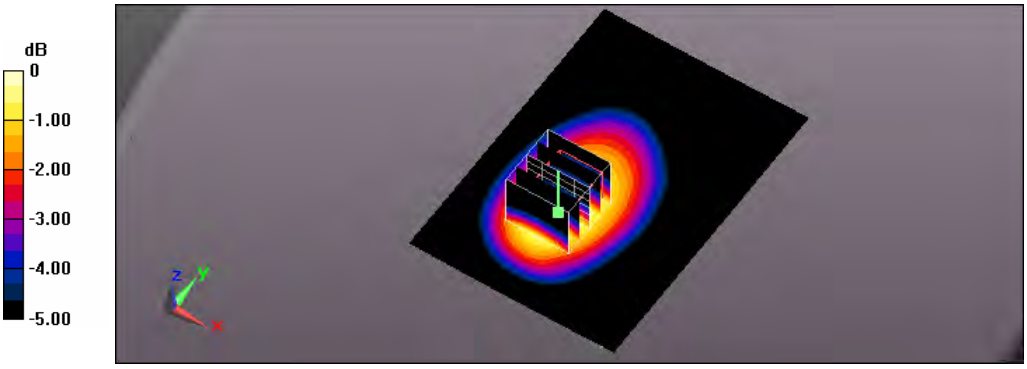
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 711 MHz;Duty Cycle: 1:1
Medium parameters used: f = 711 MHz; σ = 0.958 S/m; ε_r = 54.522; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.829 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.91 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.932 W/kg
SAR(1 g) = 0.713 W/kg; SAR(10 g) = 0.528 W/kg
Maximum value of SAR (measured) = 0.837 W/kg



0 dB = 0.837 W/kg = -0.77 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/11Time: PM 09:24:42

116_WCDMA BandII CH9538_RMC-12.2K_original 111_side 1 surface to phantom 10mm_measurement onece

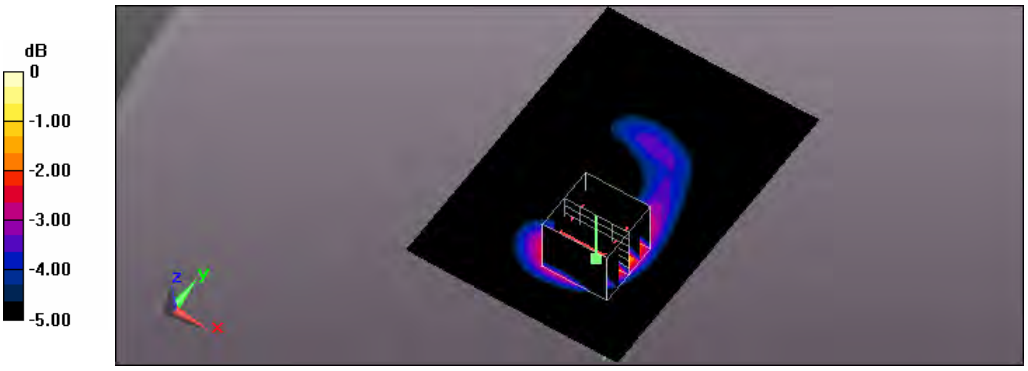
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band II (0);Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1908 MHz; σ = 1.514 S/m; ε_r = 54.324; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.08 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.78 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.787 W/kg; SAR(10 g) = 0.457 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/9Time: PM 10:21:22

108_WCDMA BandV CH4233_RMC-12.2K_original 104_side 2 surface to phantom 10mm_measurement onece

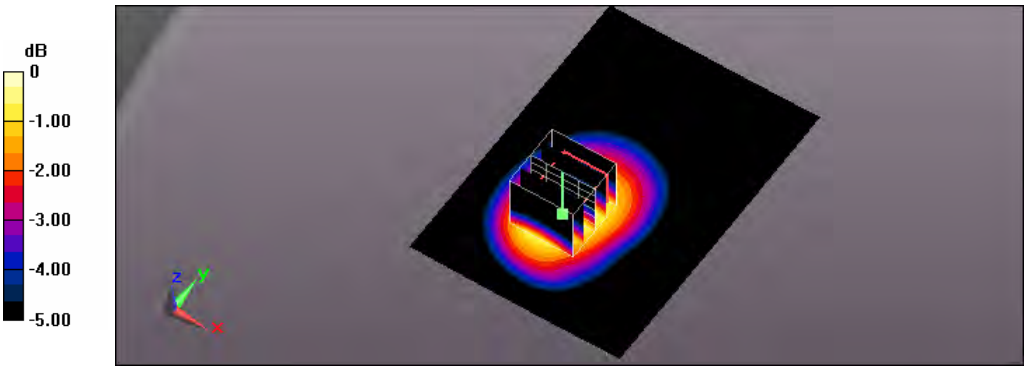
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, WCDMA Band V (0);Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 847 MHz; σ = 0.995 S/m; ε_r = 54.871; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.03 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.48 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.864 W/kg; SAR(10 g) = 0.619 W/kg
Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/4Time: PM 09:31:06

94_ LTE Band2 CH19100_QPSK_BW 20MHz_1RB Size 0RB Offset_original 92_side 1 surface to phantom 10mm_measurement onece

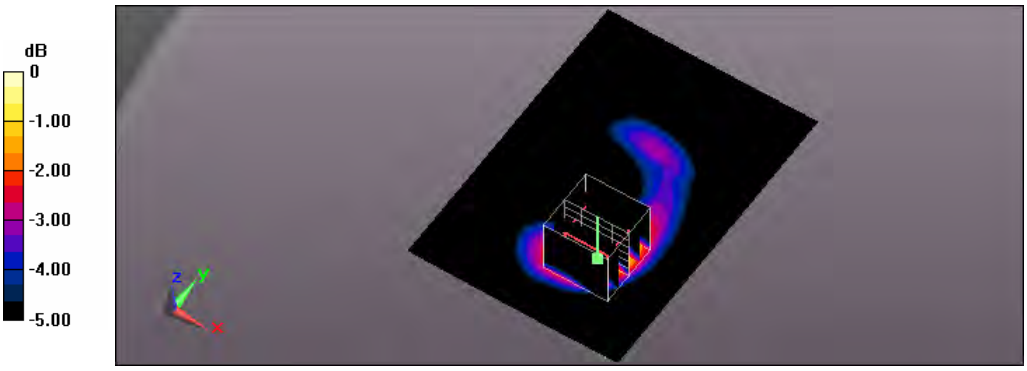
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.502 S/m; ε_r = 54.362; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.46, 7.46, 7.46); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.987 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.09 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.715 W/kg; SAR(10 g) = 0.416 W/kg
Maximum value of SAR (measured) = 0.956 W/kg



0 dB = 0.956 W/kg = -0.20 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/5Time: AM 12:53:53

98_ LTE Band4 CH20300_QPSK_BW 20MHz_1RB Size 0RB Offset_original 96_side 1 surface to phantom 10mm_measurement onece

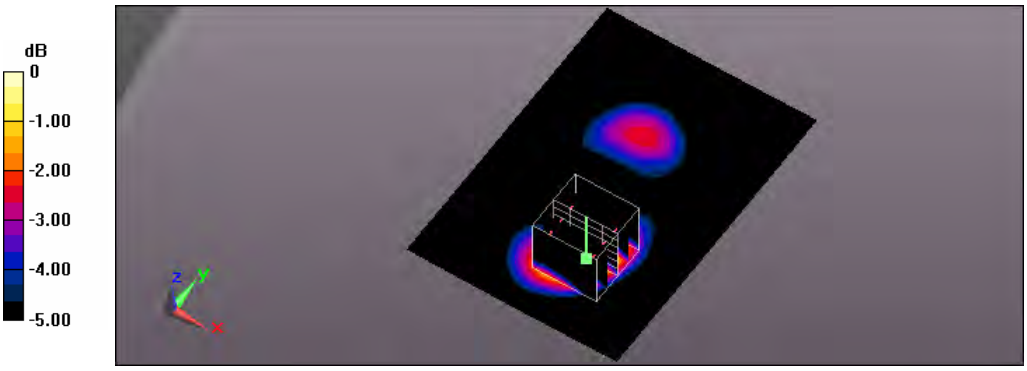
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1745 MHz; σ = 1.52 S/m; ε_r = 54.05; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.65, 7.65, 7.65); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.32 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.42 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.551 W/kg
Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/23Time: PM 07:27:54

85_LTE Band5 CH20600_QPSK_BW 10MHz_1RB Size 0RB Offset_original 75_side 2 surface to phantom 10mm_measurement onece

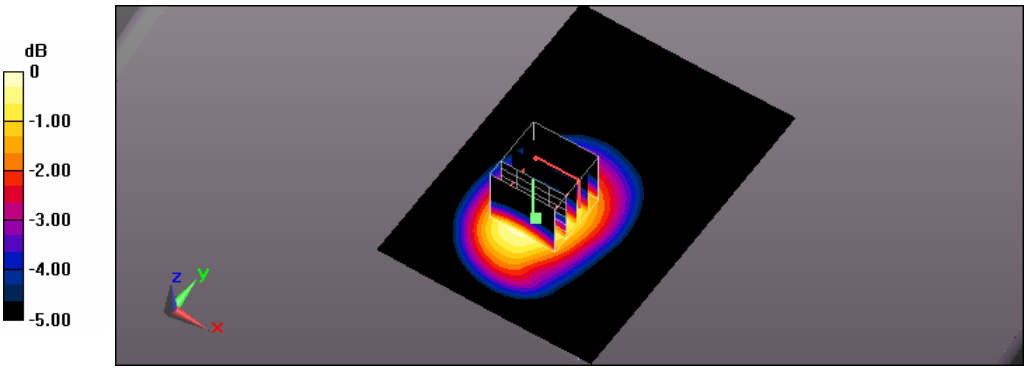
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 844 MHz;Duty Cycle: 1:1
Medium parameters used: f = 844 MHz; σ = 0.991 S/m; ε_r = 54.871; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.42, 9.42, 9.42); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.40 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.22 W/kg
SAR(1 g) = 0.902 W/kg; SAR(10 g) = 0.645 W/kg
Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/11Time: AM 02:17:54

31_LTE Band7 CH21350_QPSK_BW 20MHz_1RB Size 0RB Offset_original 26_side 5 surface to phantom 10mm_measurement onece

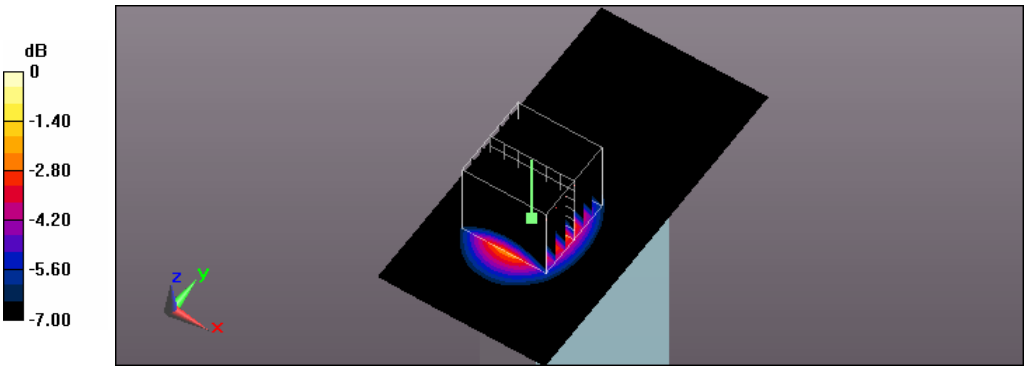
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2560 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2560 MHz; σ = 2.166 S/m; ε_r = 51.085; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.19, 7.19, 7.19); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.90 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.96 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 2.47 W/kg
SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.628 W/kg
Maximum value of SAR (measured) = 1.86 W/kg



0 dB = 1.86 W/kg = 2.70 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/10/22Time: AM 12:23:29

50_LTE Band12 CH23130_QPSK_BW 10MHz_1RB Size 0RB Offset_original 34_side 1 surface to phantom 10mm_measurement onece

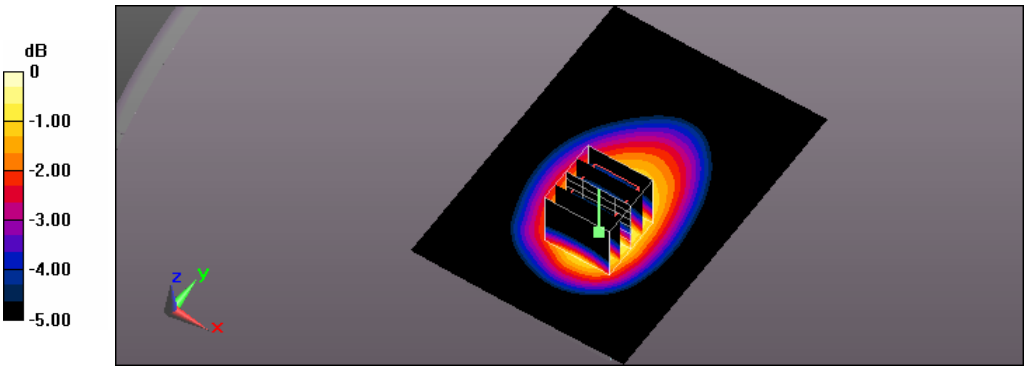
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 711 MHz;Duty Cycle: 1:1
Medium parameters used: f = 711 MHz; σ = 0.958 S/m; ε_r = 54.522; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(9.53, 9.53, 9.53); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.26 W/kg

Flat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 36.57 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.789 W/kg
Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: PM 01:11:08

141_LTE Band30 CH27710_QPSK_BW 10MHz_1RB Size 0RB Offset_side1_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

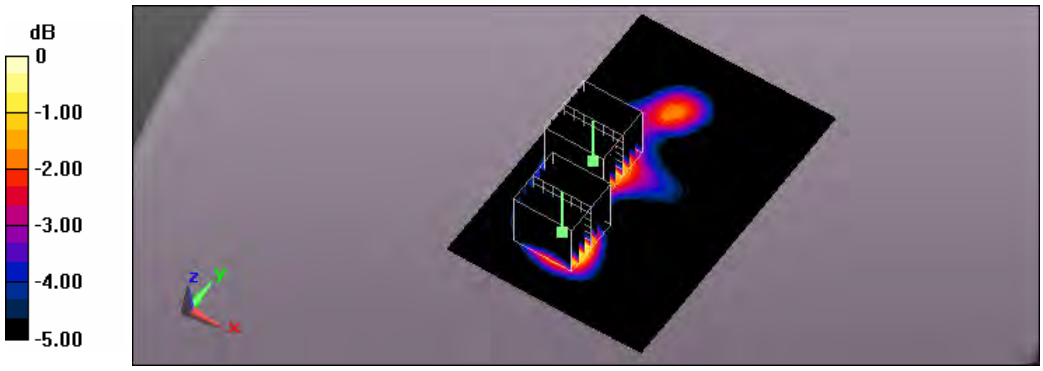
Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.18 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.36 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.46 W/kg
SAR(1 g) = 0.848 W/kg; SAR(10 g) = 0.479 W/kg
Maximum value of SAR (measured) = 1.16 W/kg

Flat/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.36 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.684 W/kg; SAR(10 g) = 0.406 W/kg
Maximum value of SAR (measured) = 0.909 W/kg



0 dB = 0.909 W/kg = -0.41 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: PM 05:34:18

143_LTE Band30 CH27710_QPSK_BW 10MHz_1RB Size 0RB Offset_side2_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

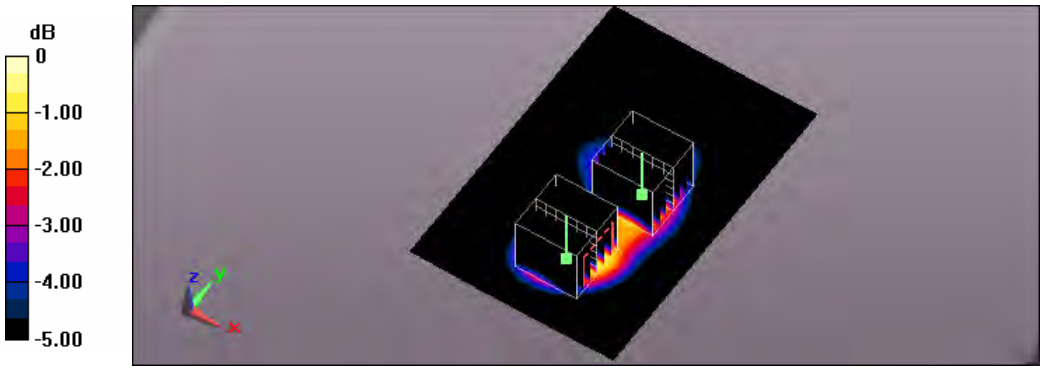
Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.991 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 23.52 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.22 W/kg
SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.397 W/kg
Maximum value of SAR (measured) = 0.972 W/kg

Flat/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 23.52 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.719 W/kg; SAR(10 g) = 0.425 W/kg
Maximum value of SAR (measured) = 0.954 W/kg



0 dB = 0.954 W/kg = -0.20 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: PM 07:29:25

145_LTE Band30 CH27710_QPSK_BW 10MHz_1RB Size 0RB Offset_side3_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

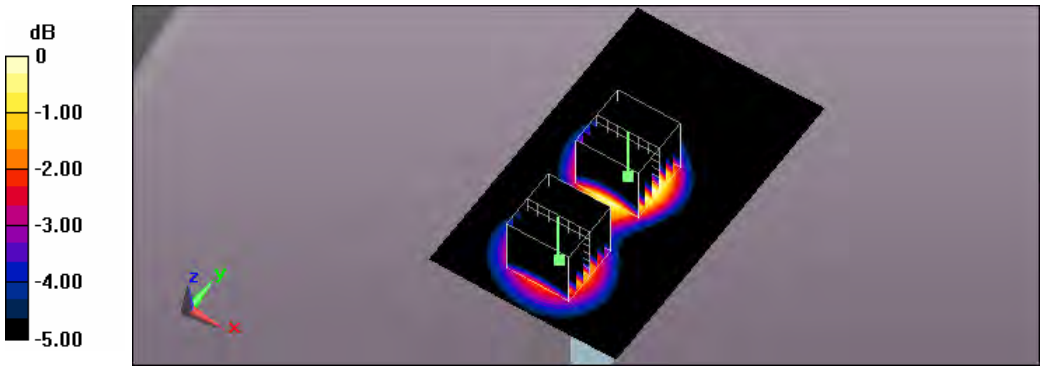
Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.841 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.31 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.632 W/kg; SAR(10 g) = 0.371 W/kg
Maximum value of SAR (measured) = 0.838 W/kg

Flat/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.31 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.744 W/kg
SAR(1 g) = 0.446 W/kg; SAR(10 g) = 0.260 W/kg
Maximum value of SAR (measured) = 0.601 W/kg



0 dB = 0.601 W/kg = -2.21 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: PM 08:45:09

147_LTE Band30 CH27710_QPSK_BW 10MHz_1RB Size 0RB Offset_side4_10mm

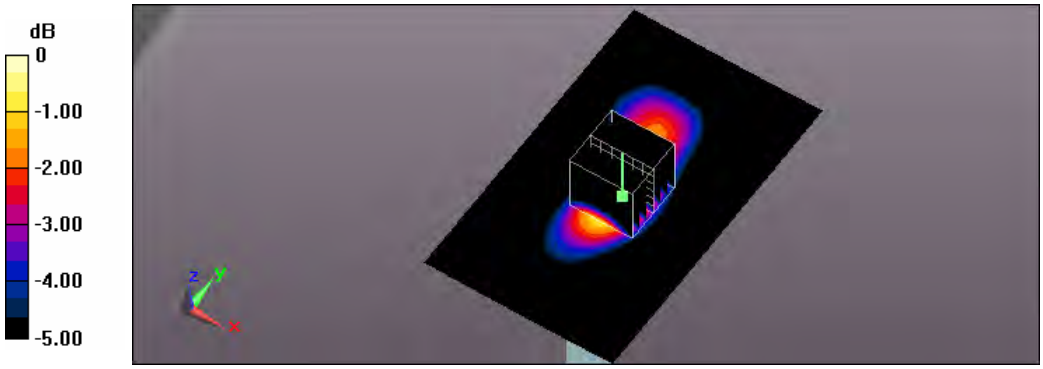
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.343 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.09 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.424 W/kg
SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.144 W/kg
Maximum value of SAR (measured) = 0.342 W/kg



0 dB = 0.342 W/kg = -4.66 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: PM 09:53:43

149_LTE Band30 CH27710_QPSK_BW 10MHz_1RB Size 0RB Offset_side5_10mm

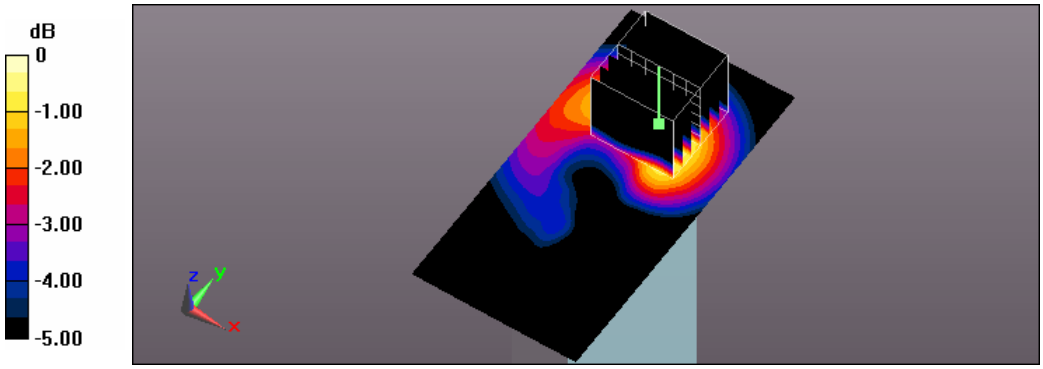
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.314 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.80 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.395 W/kg
SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.137 W/kg
Maximum value of SAR (measured) = 0.316 W/kg



0 dB = 0.316 W/kg = -5.00 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: PM 04:23:12

142_LTE Band30 CH27710_QPSK_BW 10MHz_25RB Size 0RB Offset_side1_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

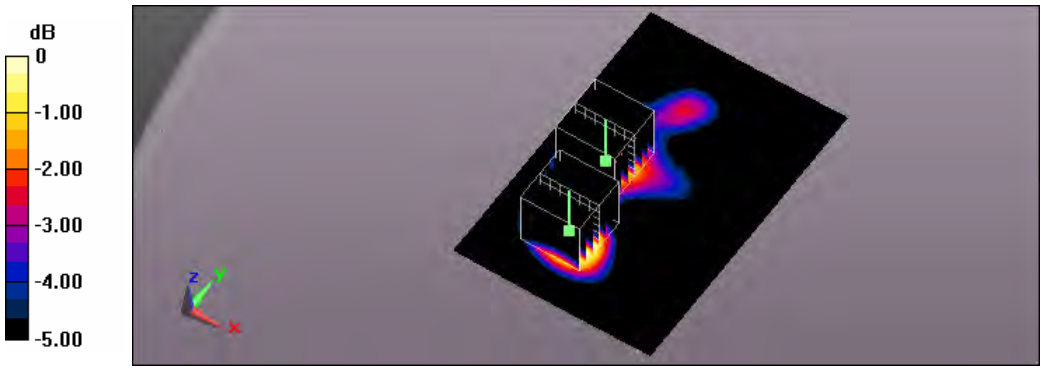
Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.10 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.721 W/kg; SAR(10 g) = 0.407 W/kg
Maximum value of SAR (measured) = 0.981 W/kg

Flat/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.10 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.925 W/kg
SAR(1 g) = 0.564 W/kg; SAR(10 g) = 0.335 W/kg
Maximum value of SAR (measured) = 0.753 W/kg



0 dB = 0.753 W/kg = -1.23 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: PM 06:26:06

144_LTE Band30 CH27710_QPSK_BW 10MHz_25RB Size 0RB Offset_side2_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

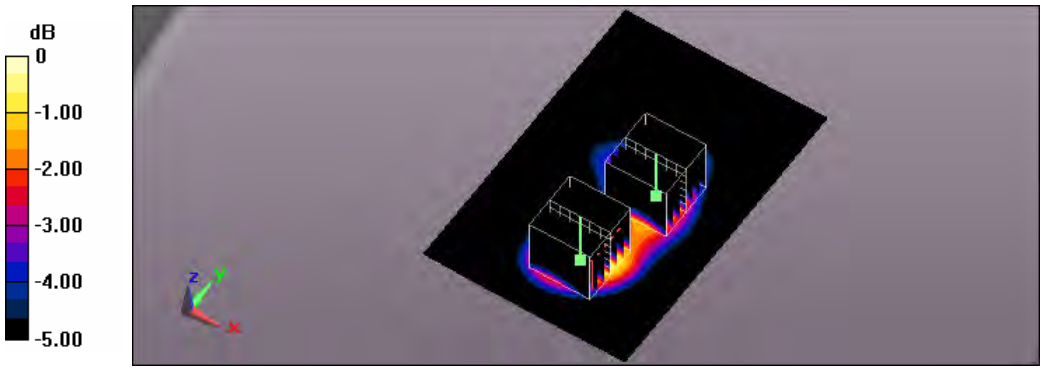
Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.791 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.97 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.976 W/kg
SAR(1 g) = 0.565 W/kg; SAR(10 g) = 0.318 W/kg
Maximum value of SAR (measured) = 0.777 W/kg

Flat/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.97 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.910 W/kg
SAR(1 g) = 0.557 W/kg; SAR(10 g) = 0.330 W/kg
Maximum value of SAR (measured) = 0.743 W/kg



0 dB = 0.743 W/kg = -1.29 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: PM 08:12:20

146_LTE Band30 CH27710_QPSK_BW 10MHz_25RB Size 0RB Offset_side3_10mm

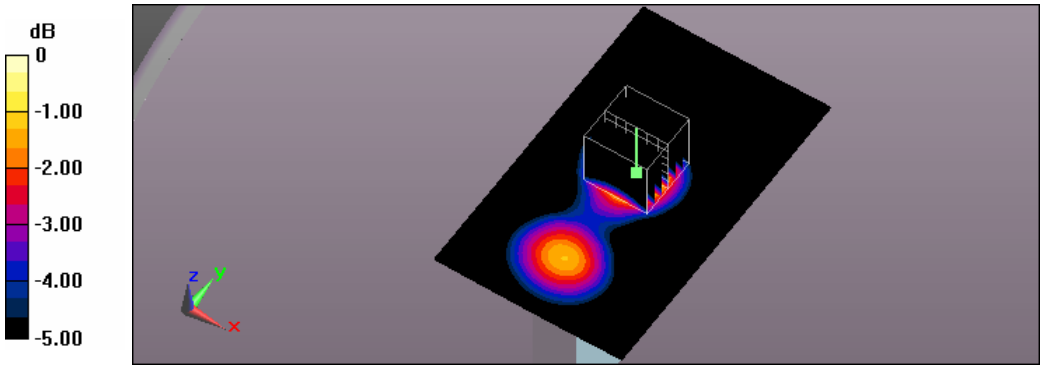
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.663 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.83 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.801 W/kg
SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.291 W/kg
Maximum value of SAR (measured) = 0.659 W/kg



0 dB = 0.659 W/kg = -1.81 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: PM 09:16:45

148_LTE Band30 CH27710_QPSK_BW 10MHz_25RB Size 0RB Offset_side4_10mm

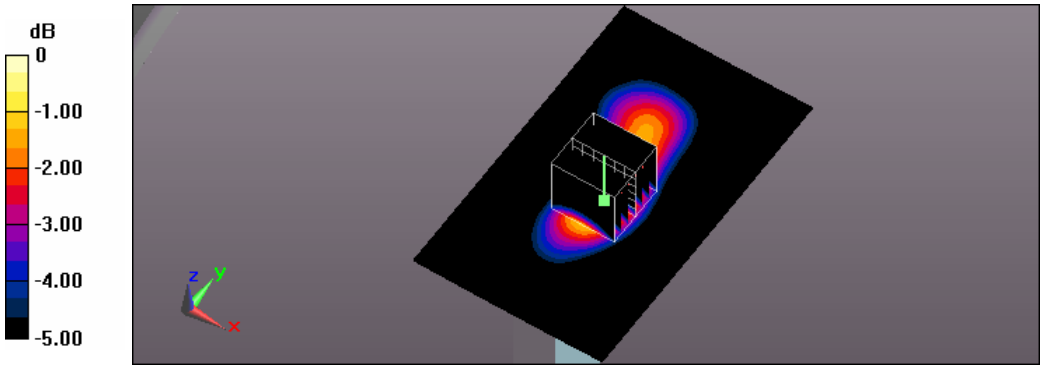
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.265 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.40 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.330 W/kg
SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.112 W/kg
Maximum value of SAR (measured) = 0.265 W/kg



0 dB = 0.265 W/kg = -5.77 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: PM 10:17:05

150_LTE Band30 CH27710_QPSK_BW 10MHz_25RB Size 0RB Offset_side5_10mm

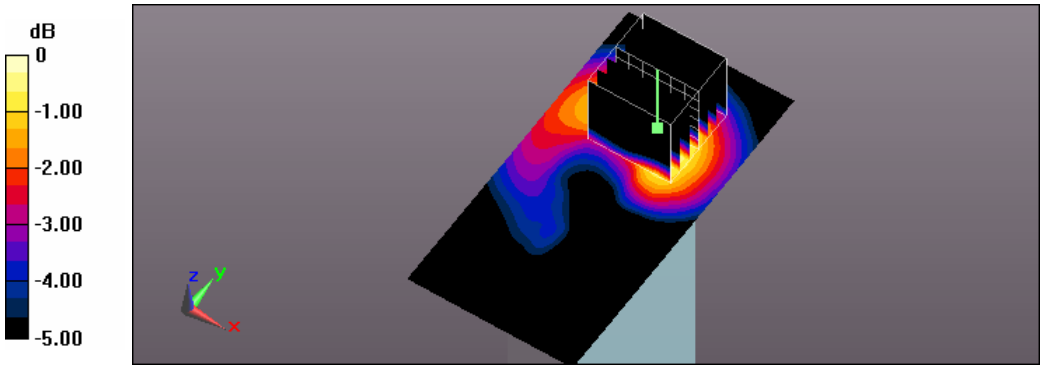
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.250 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.38 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.316 W/kg
SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.110 W/kg
Maximum value of SAR (measured) = 0.252 W/kg



0 dB = 0.252 W/kg = -5.99 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/4Time: PM 11:50:21

151_LTE Band30 CH27710_QPSK_BW 10MHz_50RB Size 0RB Offset_side1_10mm

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

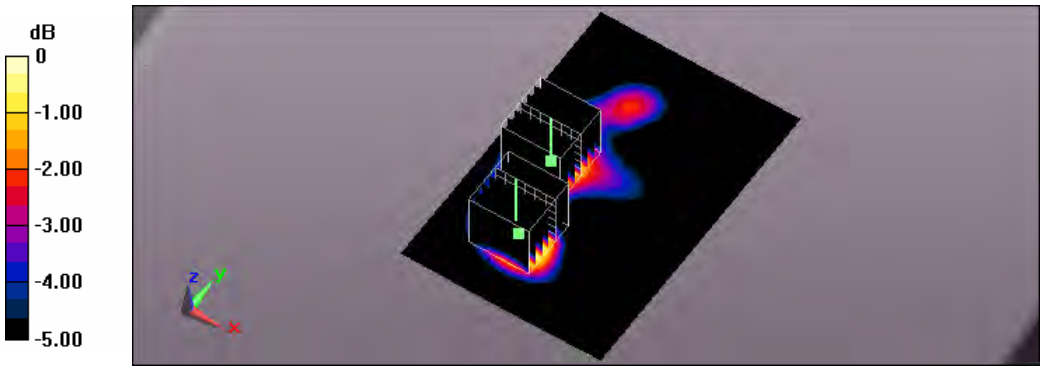
Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.977 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.01 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.20 W/kg
SAR(1 g) = 0.697 W/kg; SAR(10 g) = 0.391 W/kg
Maximum value of SAR (measured) = 0.955 W/kg

Flat/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.01 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.902 W/kg
SAR(1 g) = 0.547 W/kg; SAR(10 g) = 0.321 W/kg
Maximum value of SAR (measured) = 0.734 W/kg



0 dB = 0.734 W/kg = -1.34 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/12/5Time: AM 12:37:39

152_LTE Band30 CH27710_QPSK_BW 10MHz_1RB Size 0RB Offset_original 129_side 1 surface to phantom 10mm_measurement onece

DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

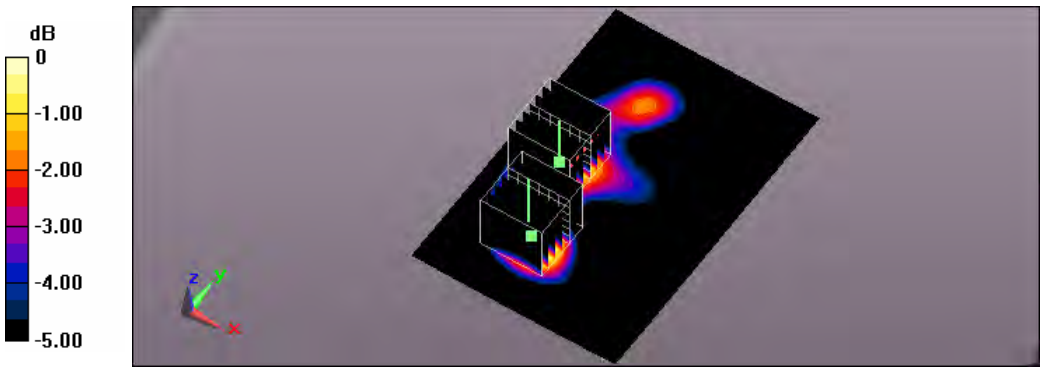
Communication System: UID 0, Generic LTE (0);Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.756 S/m; ε_r = 51.961; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.52, 7.52, 7.52); Calibrated: 2014/1/13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.20 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.70 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.47 W/kg
SAR(1 g) = 0.855 W/kg; SAR(10 g) = 0.481 W/kg
Maximum value of SAR (measured) = 1.17 W/kg

Flat/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.70 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.18 W/kg
SAR(1 g) = 0.718 W/kg; SAR(10 g) = 0.424 W/kg
Maximum value of SAR (measured) = 0.959 W/kg



0 dB = 0.959 W/kg = -0.18 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: AM 03:34:14

129_802.11b CH6_1M_side2_10mm_Antenna0

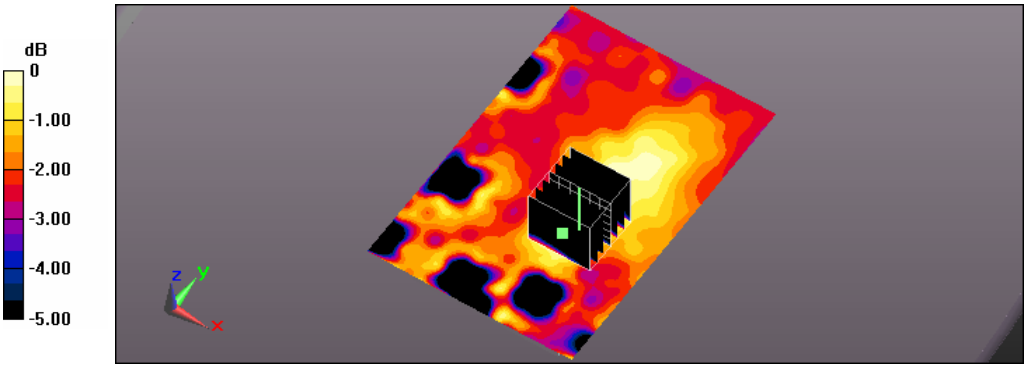
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11b (0);Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.944 S/m; ε_r = 51.158; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0130 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.264 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.0160 W/kg
SAR(1 g) = 0.00705 W/kg; SAR(10 g) = 0.00392 W/kg
Maximum value of SAR (measured) = 0.0106 W/kg



0 dB = 0.0106 W/kg = -19.75 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/12Time: PM 03:10:34

117_802.11b CH6_1M_side3_10mm_Antenna0

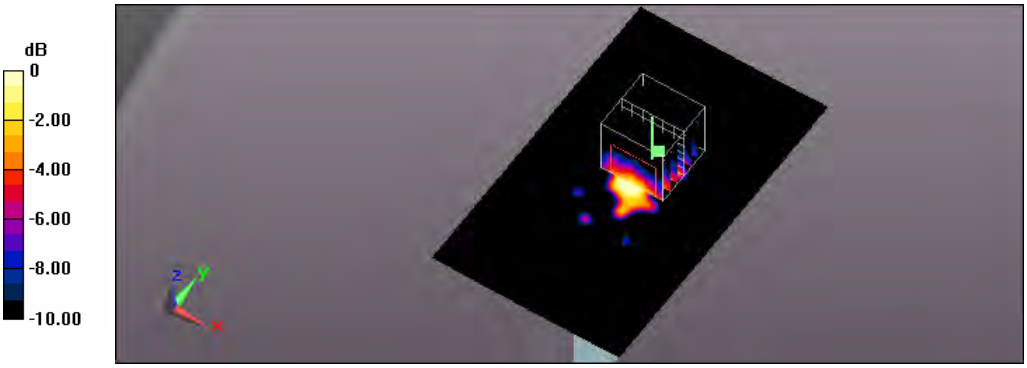
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11b (0);Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.944 S/m; ε_r = 51.158; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0615 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.217 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.0280 W/kg
SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.00729 W/kg
Maximum value of SAR (measured) = 0.0254 W/kg



0 dB = 0.0254 W/kg = -15.95 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: AM 04:54:28

130_802.11b CH6_1M_side5_10mm_Antenna0

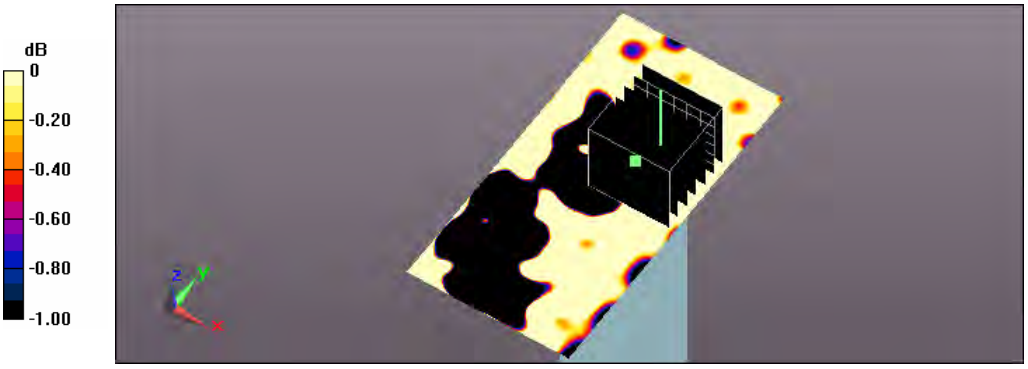
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11b (0);Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.944 S/m; ε_r = 51.158; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0112 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.589 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.00776 W/kg
SAR(1 g) = 0.00304 W/kg; SAR(10 g) = 0.00147 W/kg
Maximum value of SAR (measured) = 0.00452 W/kg



0 dB = 0.00452 W/kg = -23.45 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: AM 08:15:43

131_802.11b CH6_1M_side2_10mm_Antenna1

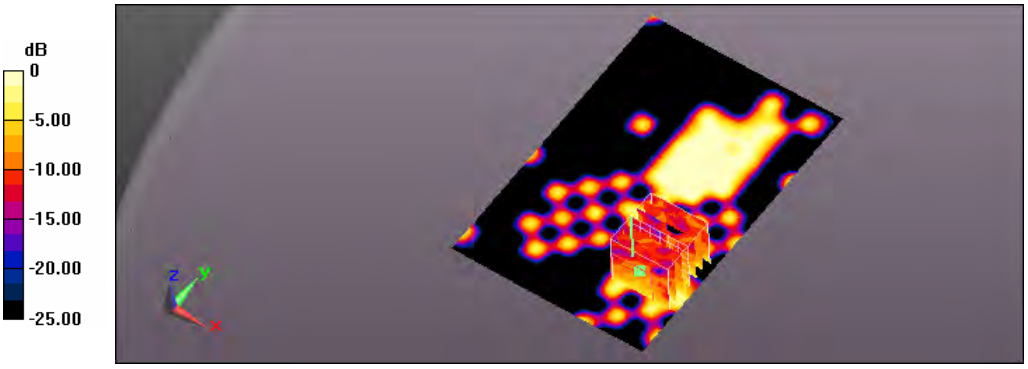
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11b (0);Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.944 S/m; ε_r = 51.158; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (101x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0221 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.441 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.0240 W/kg
SAR(1 g) = 0.00687 W/kg; SAR(10 g) = 0.00281 W/kg
Maximum value of SAR (measured) = 0.0118 W/kg



0 dB = 0.0118 W/kg = -19.28 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/12Time: PM 04:14:46

118_802.11b CH6_1M_side3_10mm_Antenna1

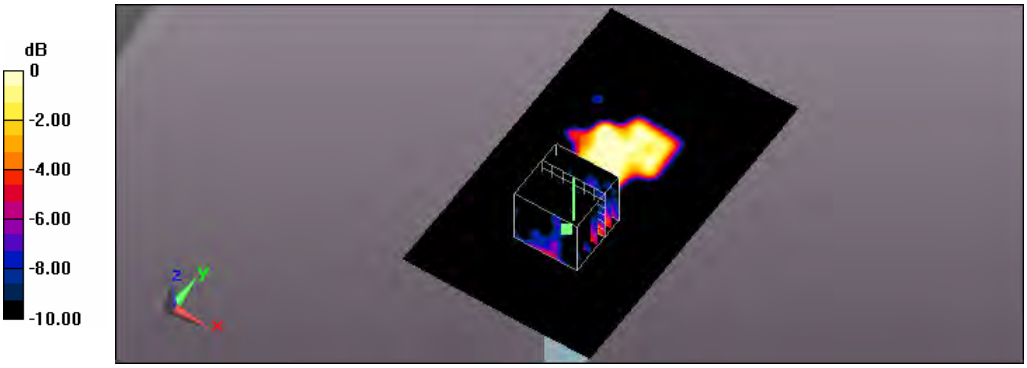
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11b (0);Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.944 S/m; ε_r = 51.158; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0328 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.874 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.0410 W/kg
SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00596 W/kg
Maximum value of SAR (measured) = 0.0246 W/kg



0 dB = 0.0246 W/kg = -16.09 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: AM 06:18:27

132_802.11b CH6_1M_side5_10mm_Antenna1

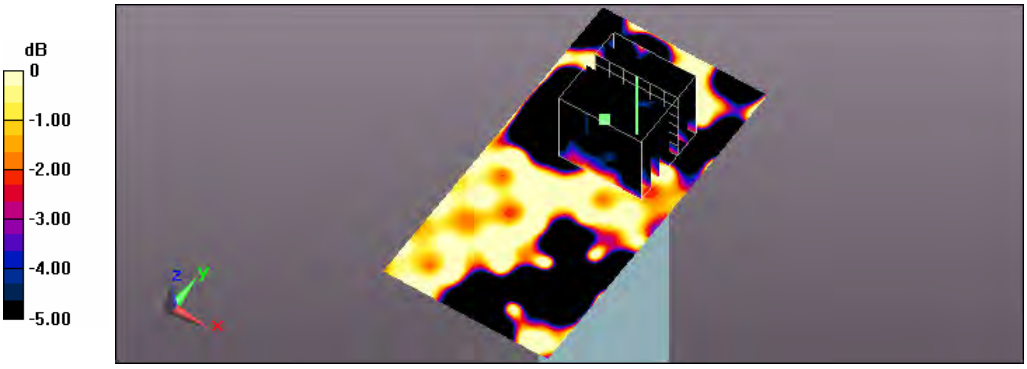
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11b (0);Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.944 S/m; ε_r = 51.158; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(7.29, 7.29, 7.29); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0133 W/kg

Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.364 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.00722 W/kg
SAR(1 g) = 0.00395 W/kg; SAR(10 g) = 0.00224 W/kg
Maximum value of SAR (measured) = 0.00538 W/kg



0 dB = 0.00538 W/kg = -22.69 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/12Time: PM 09:30:41

119_802.11a CH36_6M_side1_10mm_Antenna0

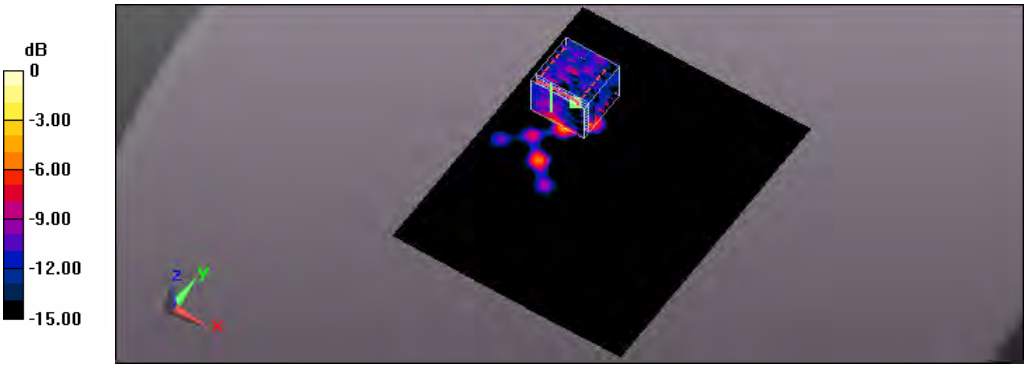
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5180 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5180 MHz; σ = 5.496 S/m; ε_r = 47.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.96, 4.96, 4.96); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0847 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.680 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.709 W/kg
SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.016 W/kg
Maximum value of SAR (measured) = 0.127 W/kg



0 dB = 0.127 W/kg = -8.96 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/13Time: AM 03:37:42

123_802.11a CH161_6M_side1_10mm_Antenna0

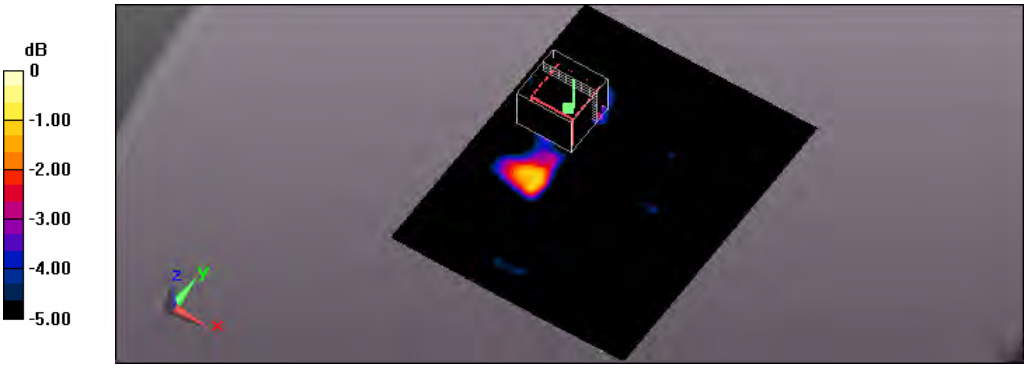
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5805 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5805 MHz; σ = 6.272 S/m; ε_r = 46.395; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.35, 4.35, 4.35); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.140 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.387 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.628 W/kg
SAR(1 g) = 0.060 W/kg; SAR(10 g) = 0.024 W/kg
Maximum value of SAR (measured) = 0.121 W/kg



0 dB = 0.121 W/kg = -9.17 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: PM 12:46:40

133_802.11a CH36_6M_side2_10mm_Antenna0

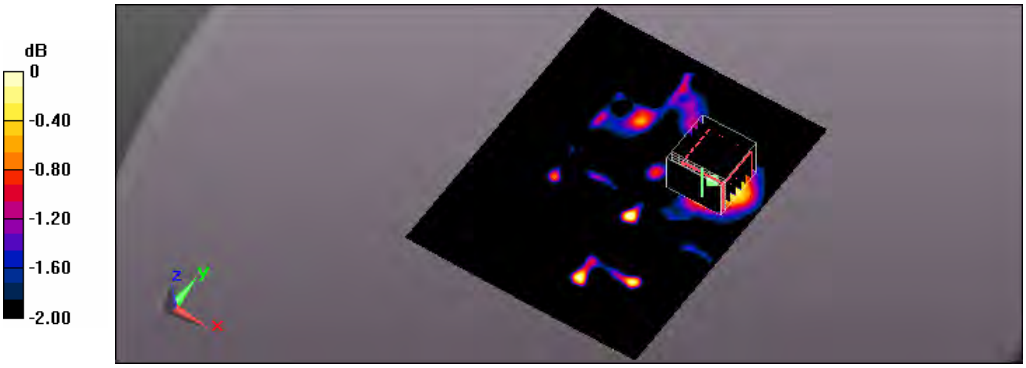
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5180 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5180 MHz; σ = 5.496 S/m; ε_r = 47.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.96, 4.96, 4.96); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0473 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.348 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.167 W/kg
SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.00919 W/kg
Maximum value of SAR (measured) = 0.0444 W/kg



0 dB = 0.0444 W/kg = -13.53 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: PM 06:32:35

135_802.11a CH161_6M_side2_10mm_Antenna0

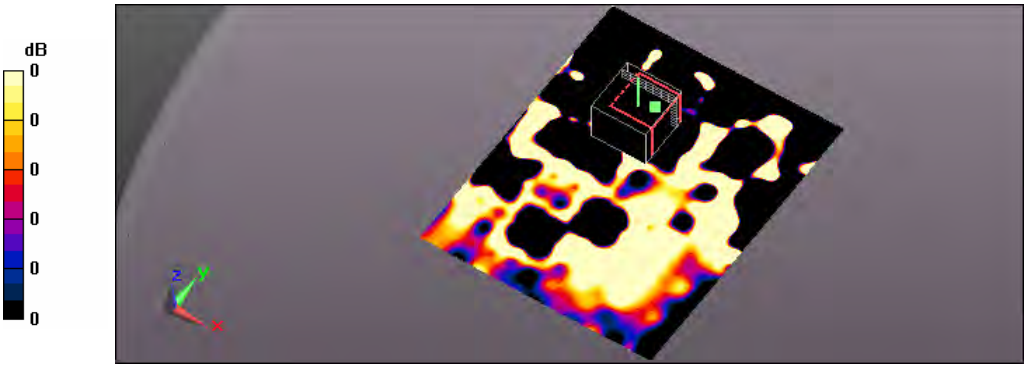
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5805 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5805 MHz; σ = 6.272 S/m; ε_r = 46.395; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.35, 4.35, 4.35); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.182 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.266 V/m; Power Drift = -0.16
Peak SAR (extrapolated) = 0.260 W/kg
SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.00771 W/kg
Maximum value of SAR (measured) = 0.0320 W/kg



0 dB = 0.0320 W/kg = -14.95 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/12Time: PM 10:25:23

120_802.11a CH36_6M_side3_10mm_Antenna0

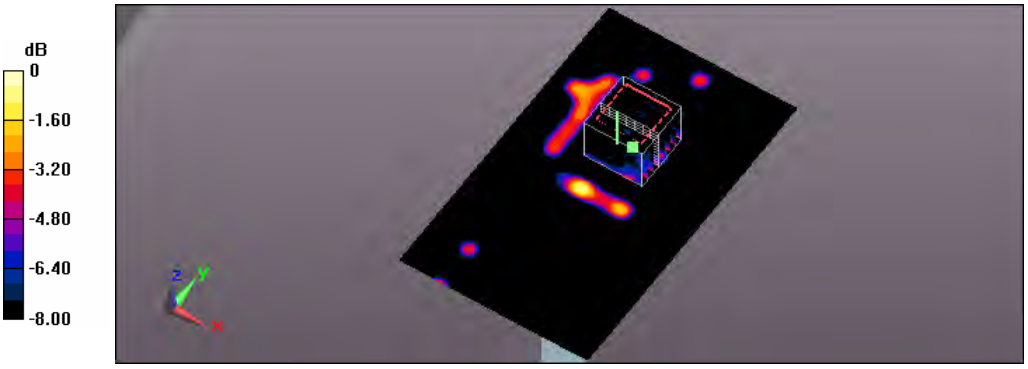
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5180 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5180 MHz; σ = 5.496 S/m; ε_r = 47.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.96, 4.96, 4.96); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.141 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.724 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.901 W/kg
SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.022 W/kg
Maximum value of SAR (measured) = 0.129 W/kg



0 dB = 0.129 W/kg = -8.89 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/13Time: AM 04:48:15

124_802.11a CH161_6M_side3_10mm_Antenna0

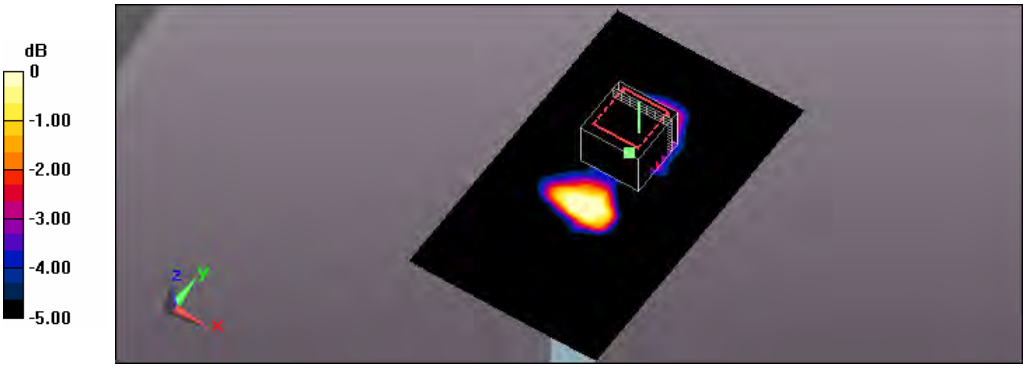
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5805 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5805 MHz; σ = 6.272 S/m; ε_r = 46.395; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.35, 4.35, 4.35); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.186 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.170 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.316 W/kg
SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.036 W/kg
Maximum value of SAR (measured) = 0.154 W/kg



0 dB = 0.154 W/kg = -8.12 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: PM 02:03:49

134_802.11a CH36_6M_side5_10mm_Antenna0

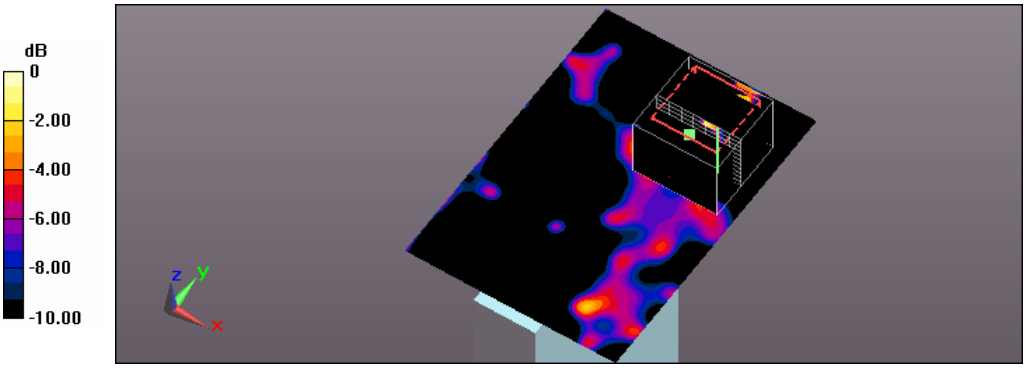
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5180 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5180 MHz; σ = 5.496 S/m; ε_r = 47.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.96, 4.96, 4.96); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0540 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 1.401 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.372 W/kg
SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00332 W/kg
Maximum value of SAR (measured) = 0.0862 W/kg



0 dB = 0.0862 W/kg = -10.64 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: PM 07:43:09

136_802.11a CH161_6M_side5_10mm_Antenna0

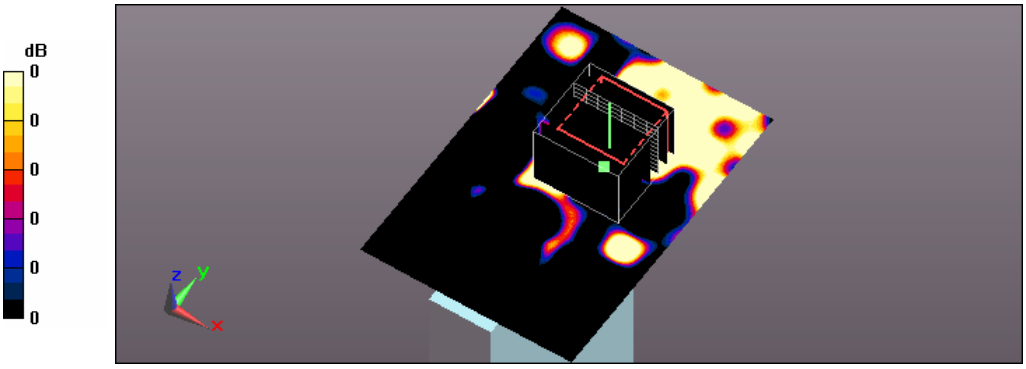
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5805 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5805 MHz; σ = 6.272 S/m; ε_r = 46.395; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.35, 4.35, 4.35); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0759 W/kg

20151125/Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 1.312 V/m; Power Drift =-0.10 dB
Peak SAR (extrapolated) = 0.115 W/kg
SAR(1 g) = 0.024 W/kg; SAR(10 g) = 0.013 W/kg
Maximum value of SAR (measured) = 0.0377 W/kg



0 dB = 0.0377 W/kg = -14.24 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/13Time: AM 12:39:26

122_802.11a CH36_6M_side1_10mm_Antenna1

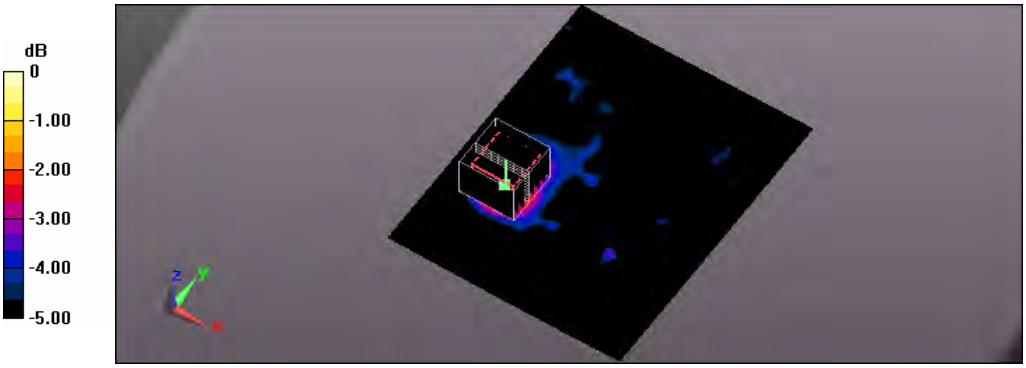
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5180 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5180 MHz; σ = 5.496 S/m; ε_r = 47.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.96, 4.96, 4.96); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0844 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.215 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.232 W/kg
SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.021 W/kg
Maximum value of SAR (measured) = 0.0837 W/kg



0 dB = 0.0837 W/kg = -10.77 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/13Time: AM 06:34:11

126_802.11a CH165_6M_side1_10mm_Antenna1

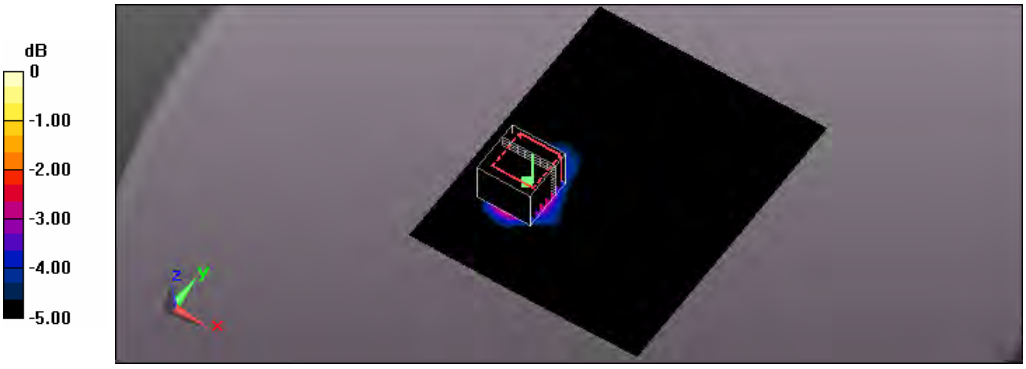
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5825 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5825 MHz; σ = 6.28 S/m; ε_r = 46.375; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.35, 4.35, 4.35); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.148 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.707 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.404 W/kg
SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.034 W/kg
Maximum value of SAR (measured) = 0.144 W/kg



0 dB = 0.144 W/kg = -8.42 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: PM 03:42:08

137_802.11a CH36_6M_side2_10mm_Antenna1

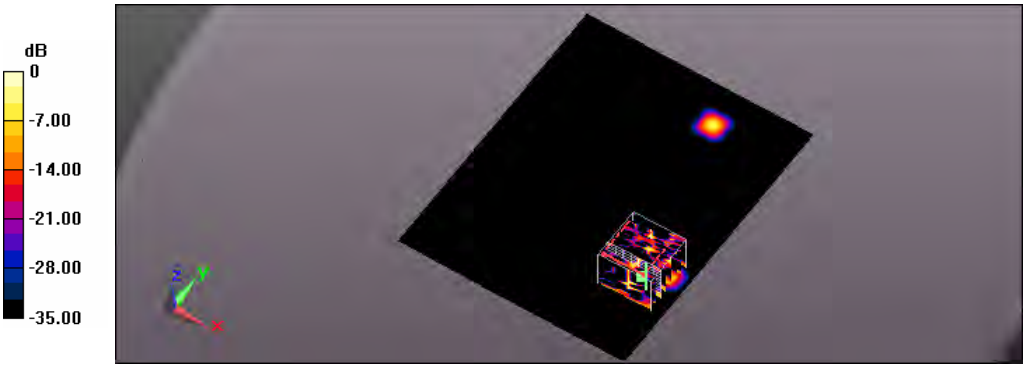
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5180 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5180 MHz; σ = 5.496 S/m; ε_r = 47.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.96, 4.96, 4.96); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0825 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.008 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.489 W/kg
SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.013 W/kg
Maximum value of SAR (measured) = 0.0865 W/kg



0 dB = 0.0865 W/kg = -10.63 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: PM 09:26:05

138_802.11a CH165_6M_side2_10mm_Antenna1

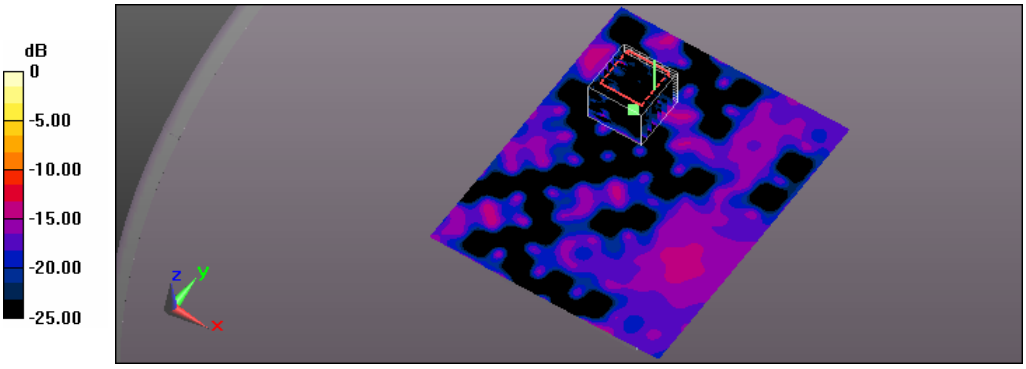
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5825 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5825 MHz; σ = 6.28 S/m; ε_r = 46.375; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.35, 4.35, 4.35); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.113 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.859; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.37 W/kg
SAR(1 g) = 0.00488 W/kg; SAR(10 g) = 0.000615 W/kg
Maximum value of SAR (measured) = 2.37 W/kg



0 dB = 2.37 W/kg = 3.75 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/13Time: AM 01:51:20

121_802.11a CH36_6M_side3_10mm_Antenna1

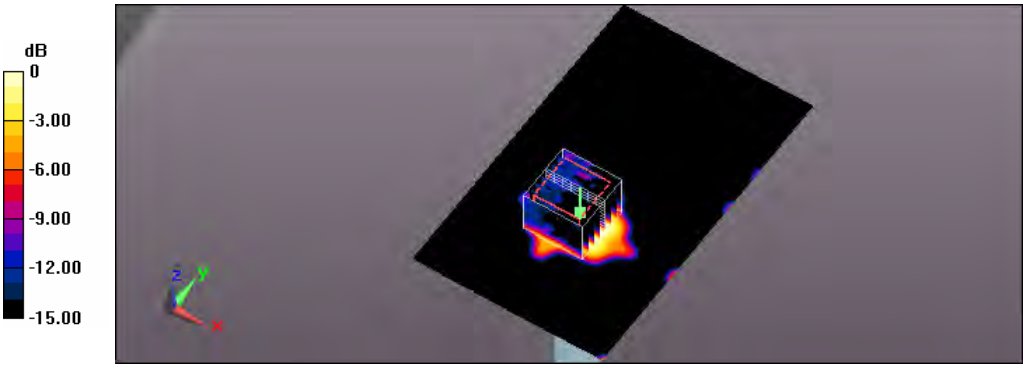
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5180 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5180 MHz; σ = 5.496 S/m; ε_r = 47.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.96, 4.96, 4.96); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.215 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.867 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.461 W/kg
SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.038 W/kg
Maximum value of SAR (measured) = 0.182 W/kg



0 dB = 0.182 W/kg = -7.40 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/13Time: AM 07:45:00

125_802.11a CH165_6M_side3_10mm_Antenna1

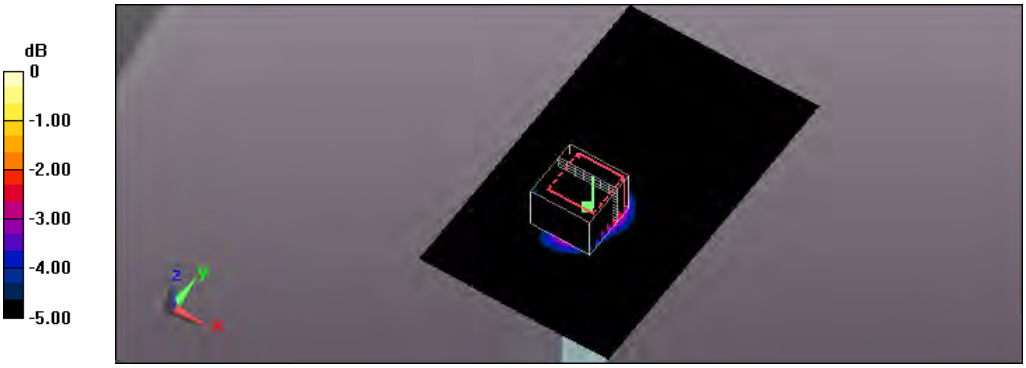
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5825 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5825 MHz; σ = 6.28 S/m; ε_r = 46.375; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.35, 4.35, 4.35); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.263 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.613 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.508 W/kg
SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.054 W/kg
Maximum value of SAR (measured) = 0.258 W/kg



0 dB = 0.258 W/kg = -5.88 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: PM 04:49:42

139_802.11a CH36_6M_side5_10mm_Antenna1

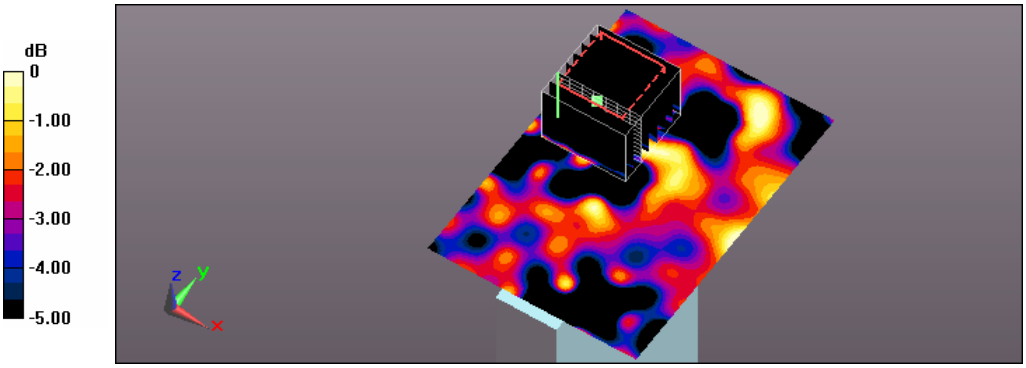
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5180 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5180 MHz; σ = 5.496 S/m; ε_r = 47.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.96, 4.96, 4.96); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.122 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.881; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.152 W/kg
SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.00727 W/kg
Maximum value of SAR (measured) = 0.0858 W/kg



0 dB = 0.0858 W/kg = -10.67 dBW/kg

Test Laboratory: A Test Lab Techno Corp.
Date: 2015/11/25Time: PM 10:40:11

140_802.11a CH165_6M_side5_10mm_Antenna1

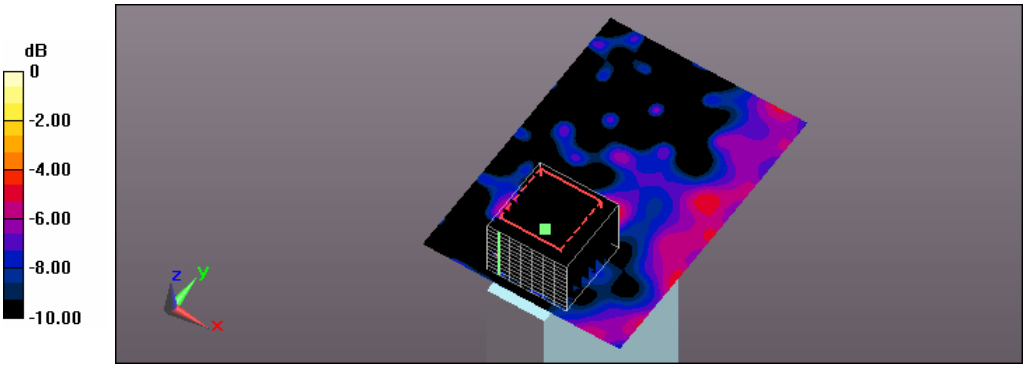
DUT: AC815S;Type: AirCard 815S Mobile Hotspot;Serial: 014475000001006

Communication System: UID 0, IEEE 802.11a (0);Frequency: 5825 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5825 MHz; σ = 6.28 S/m; ε_r = 46.375; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3847;ConvF(4.35, 4.35, 4.35); Calibrated: 2015/1/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541;Calibrated: 2015/2/3
- Phantom: ELI v5.0;Type: QDOVA002AA;Serial: TP:1133
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Flat/Area Scan (71x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.150 W/kg

Flat/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.635 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.392 W/kg
SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.0024 W/kg
Maximum value of SAR (measured) = 0.392 W/kg



0 dB = 0.392 W/kg = -4.07 dBW/kg