

FCC SAR Test Report

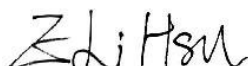
Report No. : SA150925C05A
Applicant : Sierra Wireless Inc.
Address : 13811 Wireless Way, Richmond, BC, Canada
Product : PCIe wireless WAN card
FCC ID : N7NEM7355-D7
Brand : Sierra Wireless
Model No. : EM7355
Standards : FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE Std 1528:2013
KDB 865664 D01 v01r04 / KDB 865664 D02 v01r02
KDB 248227 D01 v02r02 / KDB 447498 D01 v06 / KDB 616217 D04 v01r02
KDB 941225 D01 v03r01 / KDB 941225 D05 v02r05
Sample Received Date : Jul. 21, 2016
Date of Testing : Aug. 09, 2016 ~ Aug. 19, 2016
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Test Location : No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)

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

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Release Control Record

Report No.	Reason for Change	Date Issued
SA150925C05A	Initial release	Sep. 07, 2016

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1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest Reported Body SAR _{1g} (W/kg)
PCB	GSM850	1.37
	GSM1900	1.37
	WCDMA II	0.90
	WCDMA IV	0.74
	WCDMA V	1.22
	CDMA BC0	1.30
	CDMA BC1	0.60
	CDMA BC10	1.31
	LTE 2	0.91
	LTE 4	0.57
	LTE 5	1.07
	LTE 13	1.09
	LTE 17	1.27
	LTE 25	1.04
DTS	2.4G WLAN	1.18
NII	5.3G WLAN	0.90
	5.6G WLAN	1.38
	5.8G WLAN	0.92
DSS	Bluetooth	0.34
DXX	NFC	N/A
Highest Simultaneous Transmission SAR		Body (W/kg)
PCB + DTS Ant0 + DTS Ant1		1.49
PCB + NII Ant0 +NII Ant1		1.41
PCB + DTS Ant0 + DSS Ant1		1.59
PCB + NII Ant0 + DSS Ant1		1.47

Note:

- The SAR limit (**Head & Body: SAR_{1g} 1.6 W/kg, Extremity: SAR_{10g} 4.0 W/kg**) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.
- Since the models of T04E have the same WLAN and BT feature, the test data for WLAN SAR in RF Exposure Lab report is referring to SAR report (Test Report No.: SAR.20151007, Issue Date: Oct. 14-15, 2015).

2. Description of Equipment Under Test

EUT Type	PCle wireless WAN card
FCC ID	N7NEM7355-D7
Brand Name	Sierra Wireless
Model Name	EM7355
Tx Frequency Bands (Unit: MHz)	GSM850 : 824.2 ~ 848.8 GSM1900 : 1850.2 ~ 1909.8 WCDMA Band II : 1852.4 ~ 1907.6 WCDMA Band IV : 1712.4 ~ 1752.6 WCDMA Band V : 826.4 ~ 846.6 CDMA BC0 : 824.7 ~ 848.31 CDMA BC1 : 1851.25 ~ 1908.75 CDMA BC10 : 817.9 ~ 823.1 LTE Band 2 : 1850.7 ~ 1909.3 (1.4M), 1851.5 ~ 1908.5 (3M), 1852.5 ~ 1907.5 (5M), 1855 ~ 1905 (10M), 1857.5 ~ 1902.5 (15M), 1860 ~ 1900 (20M) LTE Band 4 : 1710.7 ~ 1754.3 (1.4M), 1711.5 ~ 1753.5 (3M), 1712.5 ~ 1752.5 (5M), 1715 ~ 1750 (10M), 1717.5 ~ 1747.5 (15M), 1720 ~ 1745 (20M) LTE Band 5 : 824.7 ~ 848.3 (1.4M), 825.5 ~ 847.5 (3M), 826.5 ~ 846.5 (5M), 829 ~ 844 (10M) LTE Band 13 : 779.5 ~ 784.5 (5M), 782 (10M) LTE Band 17 : 706.5 ~ 713.5 (5M), 709 ~ 711 (10M) LTE Band 25 : 1850.7 ~ 1914.3 (1.4M), 1851.5 ~ 1913.5 (3M), 1852.5 ~ 1912.5 (5M), 1855 ~ 1910 (10M), 1857.5 ~ 1907.5 (15M), 1860 ~ 1905 (20M) WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5825 Bluetooth : 2402 ~ 2480 NFC : 13.56
Uplink Modulations	GPRS : GMSK EDGE : 8PSK WCDMA : QPSK CDMA : QPSK LTE : QPSK, 16QAM 802.11b : DSSS 802.11a/g/n/ac : OFDM Bluetooth : GFSK, $\pi/4$ -DQPSK, 8-DPSK NFC : ASK
Maximum Tune-up Conducted Power (Unit: dBm)	GSM850 : 33.0 GSM1900 : 30.0 WCDMA Band II : 24.0 WCDMA Band IV : 24.0 WCDMA Band V : 24.0 CDMA BC0 : 24.5 CDMA BC1 : 24.5 CDMA BC10 : 24.5 LTE Band 2 : 24.0 LTE Band 4 : 24.0 LTE Band 5 : 24.0 LTE Band 13 : 24.0 LTE Band 17 : 24.0 LTE Band 25 : 24.0 WLAN 2.4G : 15.0 WLAN 5.2G : 13.5 WLAN 5.3G : 13.5 WLAN 5.6G : 13.5 WLAN 5.8G : 13.5 Bluetooth : 11.5
Antenna Type	Fixed Internal Antenna
EUT Stage	Production Unit

Note:

1. The EUT is authorized for use in specific End-product. Please refer to below table for more details.

Item	Brand Name	Model Name
Portable Computer - Tablet	Dell	T04E

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

WWAN Antenna Information				
Manufacturer	Antenna Type	PIFA		
ATC	Part Number	Main Antenna: RB5635-15-001-C Aux. Antenna: RB5635-15-002-C		
	Peak Gain (dBi)	GSM 850	824.2 ~848.8 MHz	-1.20
		GSM 1900	1850.2 ~1909.8 MHz	2.87
		WCDMA Band II	1852.4 ~1907.6 MHz	2.87
		WCDMA Band IV	1712.4 ~1752.6 MHz	2.68
		WCDMA Band V	826.4 ~846.6 MHz	-1.48
		CDMA BC0	824.7 ~848.31 MHz	-1.20
		CDMA BC1	1851.25 ~1908.75 MHz	2.87
		CDMA BC10	817.9 ~823.1 MHz	-0.31
		LTE Band 2	1850.7 ~1909.3 MHz	2.87
		LTE Band 4	1710.7 ~1754.3 MHz	2.68
		LTE Band 5	824.7 ~848.3 MHz	-1.20
		LTE Band 13	779.5 ~784.5 MHz	-0.19
		LTE Band 17	706.5 ~713.5 MHz	0.15
		LTE Band 25	1850.7 ~1914.3 MHz	2.87

WLAN Antenna Information			
Manufacturer	Antenna Type	PIFA	
Amphenol	Part Number	Main Antenna: RB5635-15-003-C Aux. Antenna: RB5635-15-002-C	
	Peak Gain (dBi)	2400 ~2483.5 MHz	1.72
		5150 ~5250 MHz	2.92
		5250 ~5350 MHz	2.92
		5470 ~5725 MHz	2.82
		5725 ~5850 MHz	2.45

List of Accessory:

BT/WLAN Module	Brand Name	Intel
	Model Name	8260NGW
NFC Module	Brand Name	Wistron NeWeb Corporation
	Model Name	DFCN-4

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

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

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

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

3.2 SPEAG DASY System

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY4/5 software defined. The DASY software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC.

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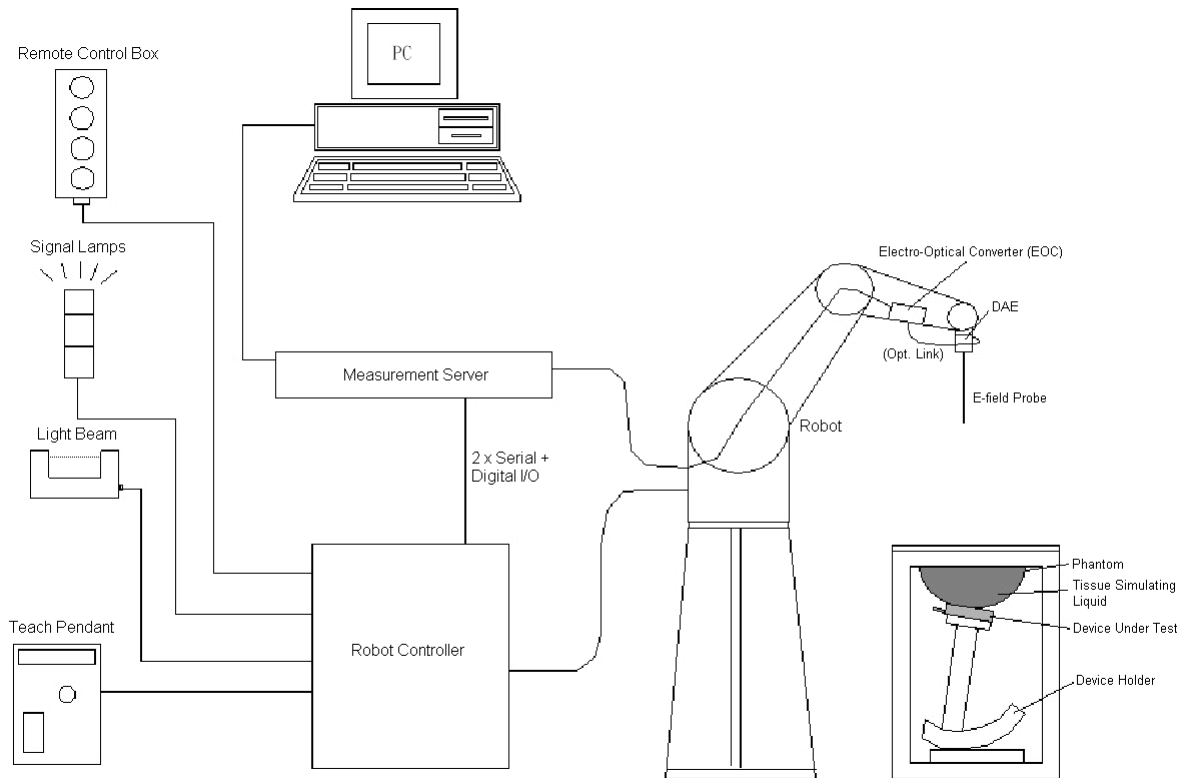


Fig-3.1 SPEAG DASY52 System Setup

3.2.1 Robot

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

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



Fig-3.2 SPEAG DASY52 System

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3.2.2 Probes

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

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

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

3.2.3 Data Acquisition Electronics (DAE)

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

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3.2.4 Phantoms

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

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

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3.2.5 Device Holder

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

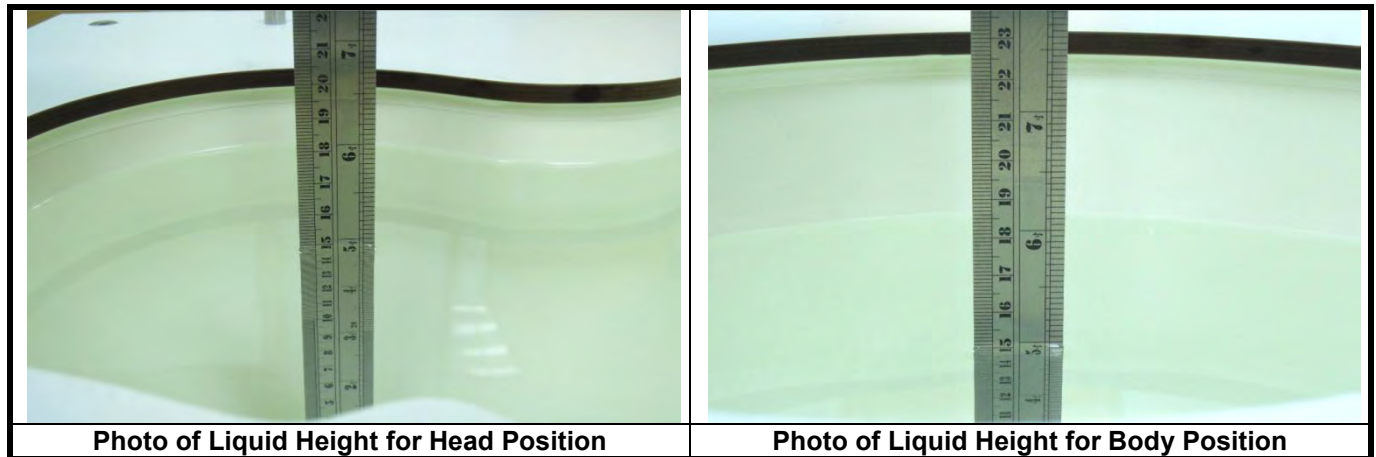
Model	Laptop Extensions Kit	
Construction	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the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

3.2.6 System Validation Dipoles

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

3.2.7 Tissue Simulating Liquids

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



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

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Table-3.1 Targets of Tissue Simulating Liquid

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

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The following table gives the recipes for tissue simulating liquids.

Table-3.2 Recipes of Tissue Simulating Liquid

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

3.3 SAR System Verification

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

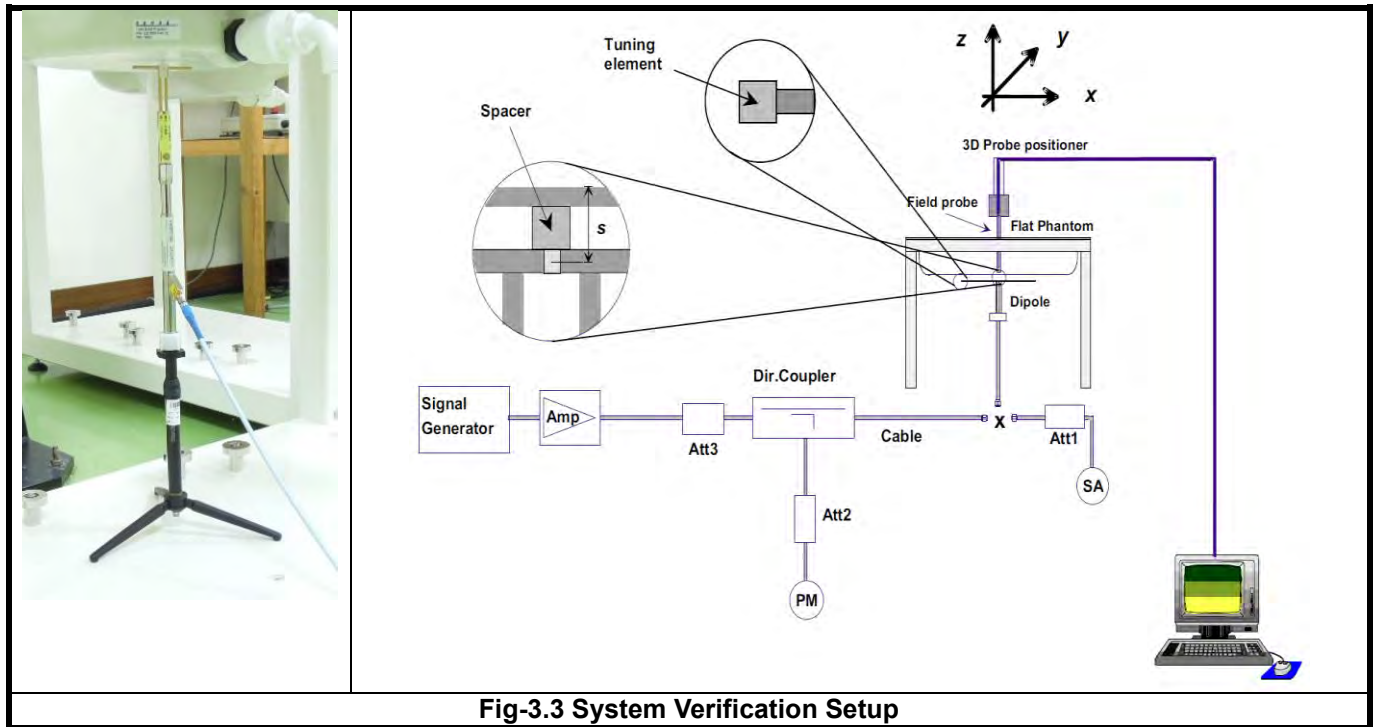


Fig-3.3 System Verification Setup

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

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

3.4 SAR Measurement Procedure

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

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

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

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

3.4.1 Area & Zoom Scan Procedure

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

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

Note:

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

3.4.2 Volume Scan Procedure

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

3.4.3 Power Drift Monitoring

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

3.4.4 Spatial Peak SAR Evaluation

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

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

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

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

3.4.5 SAR Averaged Methods

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

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

4. SAR Measurement Evaluation

4.1 EUT Configuration and Setting

<Considerations Related to Proximity Sensor>

The device supports WWAN, WLAN, and Bluetooth capabilities. It is designed with a proximity sensor which can trigger/not trigger power reduction for GSM, WCDMA and LTE on Rear Face and Top Side of EUT for SAR compliance. Others RF capability (WLAN and Bluetooth) have no power reduction. The power levels for all wireless technologies and the power reduction please refer to section 4.6 of this report.

Proximity Sensor Triggering Distances (KDB 616217 D04 §6.2)

The proximity sensor triggering distance was determined per KDB 616217 for rear face and applicable edge. Summary for power verification per distance was tabulated in the below table.

Output Power Verification in dBm for EUT Rear Face											
Distance (mm)	13	14	15	16	17	18	19	20	21	22	23
GSM850, GPRS 1Tx	31.4	31.4	31.0	31.5	31.4	31.3	32.8	32.9	32.5	32.9	32.5
GSM850, GPRS 2Tx	29.1	29.1	29.0	29.3	29.0	29.1	32.5	32.5	33.0	32.8	32.9
GSM850, EDGE 1Tx	26.9	26.8	27.0	26.7	26.9	26.7	27.3	27.3	27.5	27.1	27.0
GSM850, EDGE 2Tx	26.5	26.7	26.9	26.5	26.8	26.5	27.5	27.1	27.0	27.3	27.3
GSM1900, GPRS 1Tx	25.6	25.6	25.5	25.9	25.5	25.5	29.6	29.6	29.5	29.5	29.8
GSM1900, GPRS 2Tx	24.0	23.9	23.5	24.0	23.9	23.8	29.7	29.8	29.9	29.9	29.6
GSM1900, EDGE 1Tx	24.5	24.5	24.9	24.5	24.5	24.9	25.3	25.1	25.0	25.0	25.5
GSM1900, EDGE 2Tx	23.9	23.9	23.6	23.5	23.5	23.9	25.4	25.5	25.1	25.3	25.3
WCDMA II	17.1	17.5	17.1	17.3	17.5	17.3	23.7	23.8	23.7	23.9	24.0
WCDMA IV	17.1	17.4	17.5	17.1	17.0	17.1	24.0	24.0	23.9	23.7	23.6
CDMA BC1	16.5	17.0	16.5	16.7	16.6	17.0	24.2	24.2	24.1	24.2	24.1
LTE 2	17.0	16.6	17.0	16.8	16.7	16.5	23.7	23.6	23.8	24.0	23.5
LTE 4	16.9	16.5	17.0	16.5	17.0	16.8	23.6	23.6	23.7	23.5	23.6
LTE 17	20.1	20.2	20.3	20.3	20.5	20.0	23.8	24.0	23.9	23.5	23.5
LTE 25	16.7	16.9	16.5	17.0	17.0	16.5	23.5	23.5	23.8	23.7	23.9

Output Power Verification in dBm for EUT Top Edge											
Distance (mm)	24	25	26	27	28	29	30	31	32	33	34
GSM850, GPRS 1Tx	31.4	31.1	31.0	31.2	31.2	31.4	32.8	32.7	32.7	32.7	33.0
GSM850, GPRS 2Tx	29.4	29.1	29.5	29.4	29.1	29.0	32.5	32.9	33.0	32.5	32.7
GSM850, EDGE 1Tx	26.6	26.9	26.7	26.6	27.0	27.0	27.2	27.4	27.2	27.0	27.5
GSM850, EDGE 2Tx	26.8	26.9	26.8	27.0	26.5	26.7	27.4	27.0	27.3	27.4	27.1
GSM1900, GPRS 1Tx	25.8	25.5	25.5	25.8	25.8	26.0	29.7	29.9	29.7	29.7	29.8
GSM1900, GPRS 2Tx	23.6	24.0	23.7	23.6	23.9	23.6	29.9	29.7	29.5	29.8	29.5
GSM1900, EDGE 1Tx	24.6	24.7	24.9	24.9	24.6	24.6	25.4	25.1	25.4	25.3	25.0
GSM1900, EDGE 2Tx	23.7	23.8	23.5	23.6	23.6	23.5	25.3	25.2	25.2	25.2	25.0
WCDMA II	17.5	17.5	17.4	17.2	17.5	17.4	23.7	23.6	24.0	24.0	23.6
WCDMA IV	17.5	17.1	17.4	17.4	17.5	17.1	23.9	23.8	24.0	24.0	24.0
CDMA BC1	17.0	16.6	16.6	16.9	17.0	16.9	24.5	24.5	24.5	24.4	24.3
LTE 2	16.5	16.8	16.9	16.8	16.7	17.0	23.5	23.8	24.0	23.7	23.5
LTE 4	16.8	16.6	16.5	16.7	16.8	16.7	23.5	23.5	23.8	23.5	23.6
LTE 17	20.3	20.5	20.5	20.0	20.4	20.0	23.6	23.7	23.7	23.6	23.9
LTE 25	16.5	17.0	16.5	16.7	16.7	16.7	23.5	23.7	23.6	23.9	23.6

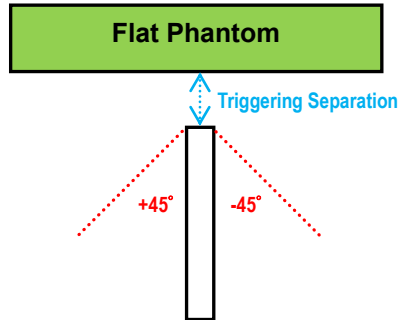
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Proximity Sensor Coverage (KDB 616217 D04 §6.3)

Since the proximity sensor is collocated with antenna in one component, the procedure for proximity sensor coverage is not required.

Proximity Sensor Tilt Angle Influences (KDB 616217 D04 §6.4)

The proximity sensor tilt angle influence was determined per KDB 616217 for applicable edge. Summary for proximity sensor tilt angle influence is shown in below.



Orientation	Separation Distance (mm)	Tilt Angle										
		-45°	-40°	-30°	-20°	-10°	0°	10°	20°	30°	40°	45°
Top Edge	29	On	On	On	On	On	On	On	On	On	On	On

Summary for Proximity Sensor Triggering Test

According to the procedures noticed in KDB 616217 D04, the proximity sensor triggering distance is 1.8 cm for EUT Rear Face and 3.0 cm for Top Side. The separation distance of 3.0 cm determined by the smallest triggering distance on Top Side is used to access the tilt angle influence and the sensor does not release during ± 45 degree. Therefore, the smallest separation distance for tilt angle influence is 2.7 cm for the Top Side.

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

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<Connections between EUT and System Simulator>

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

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

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

1. This EUT is class B device
2. This EUT supports GPRS multi-slot class 10 (max. uplink: 2, max. downlink: 4, total timeslots: 5)
3. This EUT supports EDGE multi-slot class 10 (max. uplink: 2, max. downlink: 4, total timeslots: 5)

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

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

<Considerations Related to WCDMA for Setup and Testing>

WCDMA Handsets Body-worn SAR

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

Handsets with Release 5 HSDPA

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

Handsets with Release 6 HSUPA

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

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Release 5 HSDPA Data Devices

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

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

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

Release 6 HSPA Data Devices

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

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

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Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{HS} = \beta_{HS} / \beta_C = 30 / 15 \Leftrightarrow \beta_{HS} = 30 / 15 * \beta_C$.

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

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

Note 4: For subtest 5 the β_C / β_d ratio of 15 / 15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_C = 14 / 15$ and $\beta_d = 15 / 15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

<Considerations Related to CDMA for Setup and Testing>

Handsets with built-in EV-DO

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

EV-DO Data Devices

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

EV-DO Data Devices Support 1xRTT

The 3G SAR test reduction procedure is applied to 1xRTT RC3 and RC1 with EV-DO Rev. 0, Rev. A and Rev. B as the respective primary modes. Otherwise, the "CDMA 1xRTT Handsets Body-worn SAR" procedures are applied.

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<Considerations Related to LTE for Setup and Testing>

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

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

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

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

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

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

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

4.2 EUT Testing Position

4.2.1 Body Exposure Conditions

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

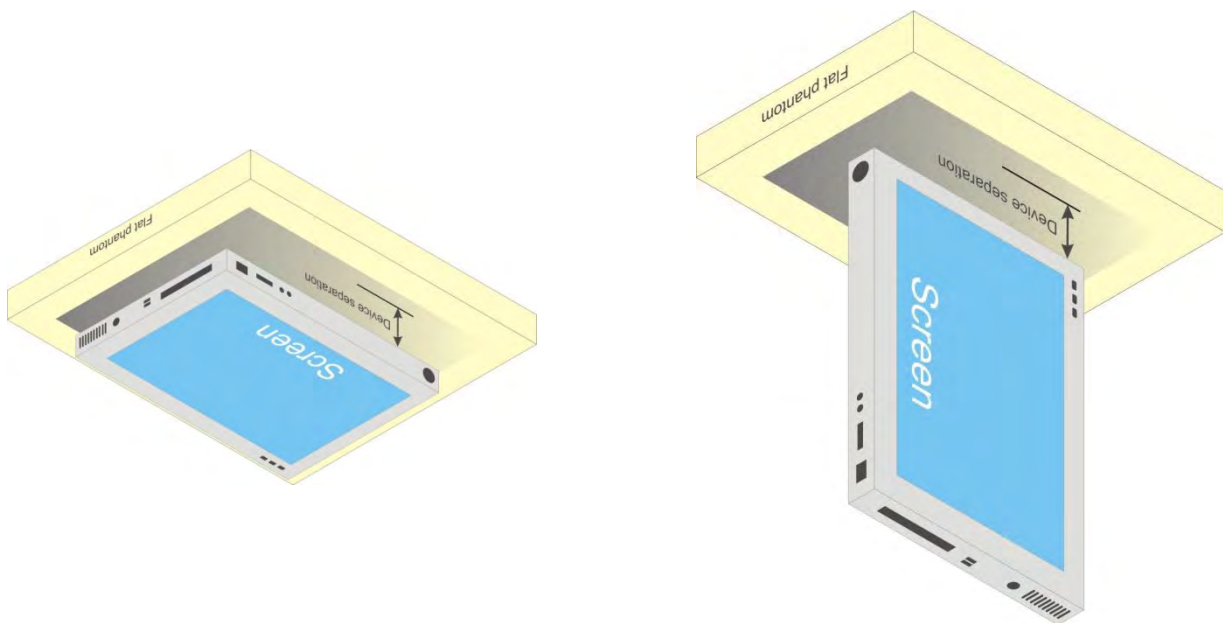


Fig-4.1 Illustration for Tablet Setup

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4.2.2 SAR Test Exclusion Evaluations

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

- For the test separation distance ≤ 50 mm

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

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

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

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

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

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

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Rear Face			Left Side			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
GSM 850	27.0	501.19	5	92.4	Yes	167	825 mW	No	30	15.4	Yes	2	92.4	Yes	163	802 mW	No
GSM 1900	24.0	251.19	5	69.4	Yes	167	1279 mW	No	30	11.6	Yes	2	69.4	Yes	163	1239 mW	No
WCDMA II	24.0	251.19	5	69.4	Yes	167	1279 mW	No	30	11.6	Yes	2	69.4	Yes	163	1239 mW	No
WCDMA IV	24.0	251.19	5	66.5	Yes	167	1283 mW	No	30	11.1	Yes	2	66.5	Yes	163	1243 mW	No
WCDMA V	24.0	251.19	5	46.2	Yes	167	824 mW	No	30	7.7	Yes	2	46.2	Yes	163	801 mW	No
CDMA BC0	24.5	281.84	5	51.9	Yes	167	824 mW	No	30	8.7	Yes	2	51.9	Yes	163	802 mW	No
CDMA BC1	24.5	281.84	5	77.9	Yes	167	1279 mW	No	30	13	Yes	2	77.9	Yes	163	1239 mW	No
CDMA BC10	24.5	281.84	5	51.1	Yes	167	807 mW	No	30	8.5	Yes	2	51.1	Yes	163	785 mW	No
LTE 2	24.0	251.19	5	69.4	Yes	167	1279 mW	No	30	11.6	Yes	2	69.4	Yes	163	1239 mW	No
LTE 4	24.0	251.19	5	66.5	Yes	167	1283 mW	No	30	11.1	Yes	2	66.5	Yes	163	1243 mW	No
LTE 5	24.0	251.19	5	46.2	Yes	167	824 mW	No	30	7.7	Yes	2	46.2	Yes	163	801 mW	No
LTE 13	24.0	251.19	5	44.5	Yes	167	782 mW	No	30	7.4	Yes	2	44.5	Yes	163	761 mW	No
LTE 17	24.0	251.19	5	42.5	Yes	167	734 mW	No	30	7.1	Yes	2	42.5	Yes	163	715 mW	No
LTE 25	24.0	251.19	5	69.5	Yes	167	1278 mW	No	30	11.6	Yes	2	69.5	Yes	163	1238 mW	No

Note:

- When separation distance ≤ 50 mm and the calculated result shown in above table is ≤ 3.0 for SAR-1g exposure condition, or ≤ 7.5 for SAR-10g exposure condition, the SAR testing exclusion is applied.
- When separation distance > 50 mm and the device output power is less than the calculated result (power threshold, mW) shown in above table, the SAR testing exclusion is applied.

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4.2.3 Simultaneous Transmission Possibilities

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

Simultaneous TX Combination	Capable Transmit Configurations	Body Exposure Condition
1	GSM850 (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
2	GSM1900 (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
3	WCDMA II (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
4	WCDMA IV (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
5	WCDMA V (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
6	CDMA BC0 (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
7	CDMA BC1 (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
8	CDMA BC10 (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
9	LTE 2 (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
10	LTE 4 (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
11	LTE 5 (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
12	LTE 13 (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
13	LTE 17 (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
14	LTE 25 (Data) + WLAN Ant 0 (Data) + WLAN Ant 1 (Data)	Yes
15	GSM850 (Data) + WLAN Ant 0 (Data) + BT Ant 1 (Data)	Yes
16	GSM1900 (Data) + WLAN Ant 0 (Data) + BT Ant 1 (Data)	Yes
17	WCDMA II (Data) + WLAN Ant 0 (Data)+ BT Ant 1 (Data)	Yes
18	WCDMA IV (Data) + WLAN Ant 0 (Data)+ BT Ant 1 (Data)	Yes
19	WCDMA V (Data) + WLAN Ant 0 (Data)+ BT Ant 1 (Data)	Yes
20	CDMA BC0 (Data) + WLAN Ant 0 (Data) + BT Ant 1 (Data)	Yes
21	CDMA BC1 (Data) + WLAN Ant 0 (Data) + BT Ant 1 (Data)	Yes
22	CDMA BC10 (Data) + WLAN Ant 0 (Data) + BT Ant 1 (Data)	Yes
23	LTE 2 (Data) + WLAN Ant 0 (Data)+ BT Ant 1 (Data)	Yes
24	LTE 4 (Data) + WLAN Ant 0 (Data)+ BT Ant 1 (Data)	Yes
25	LTE 5 (Data) + WLAN Ant 0 (Data)+ BT Ant 1 (Data)	Yes
26	LTE 13 (Data) + WLAN Ant 0 (Data)+ BT Ant 1 (Data)	Yes
27	LTE 17 (Data) + WLAN Ant 0 (Data)+ BT Ant 1 (Data)	Yes
28	LTE 25 (Data) + WLAN Ant 0 (Data)+ BT Ant 1 (Data)	Yes

Note:

1. The WLAN and Bluetooth can transmit simultaneously.

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4.3 Tissue Verification

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

Test Date	Tissue Type	Frequency (MHz)	Liquid Temp. (°C)	Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Target Conductivity (σ)	Target Permittivity (ϵ_r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Aug. 17, 2016	Body	750	23.5	0.967	56.078	0.96	55.5	0.73	1.04
Aug. 19, 2016	Body	750	23.3	0.968	56.198	0.96	55.5	0.83	1.26
Aug. 09, 2016	Body	835	23.5	0.990	54.561	0.97	55.2	2.06	-1.16
Aug. 10, 2016	Body	835	23.4	0.991	54.624	0.97	55.2	2.16	-1.04
Aug. 12, 2016	Body	835	23.2	1.004	54.414	0.97	55.2	3.51	-1.42
Aug. 09, 2016	Body	1750	23.3	1.432	52.022	1.49	53.4	-3.89	-2.58
Aug. 19, 2016	Body	1750	23.3	1.439	54.803	1.49	53.4	-3.42	2.63
Aug. 09, 2016	Body	1900	23.3	1.582	51.601	1.52	53.3	4.08	-3.19
Aug. 18, 2016	Body	1900	23.3	1.570	54.610	1.52	53.3	3.29	2.46
Aug. 19, 2016	Body	1900	23.2	1.585	50.817	1.52	53.3	4.28	-4.66

Note:

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

4.4 System Validation

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

Test Date	Probe S/N	Calibration Point		Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Validation for CW			Validation for Modulation		
						Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR
Aug. 17, 2016	3864	Body	750	0.967	56.078	Pass	Pass	Pass	N/A	N/A	N/A
Aug. 19, 2016	3864	Body	750	0.968	56.198	Pass	Pass	Pass	N/A	N/A	N/A
Aug. 09, 2016	7350	Body	835	0.990	54.561	Pass	Pass	Pass	N/A	N/A	N/A
Aug. 10, 2016	7350	Body	835	0.991	54.624	Pass	Pass	Pass	N/A	N/A	N/A
Aug. 12, 2016	3864	Body	835	1.004	54.414	Pass	Pass	Pass	GMSK	Pass	N/A
Aug. 09, 2016	7350	Body	1750	1.432	52.022	Pass	Pass	Pass	N/A	N/A	N/A
Aug. 19, 2016	3864	Body	1750	1.439	54.803	Pass	Pass	Pass	N/A	N/A	N/A
Aug. 09, 2016	7350	Body	1900	1.582	51.601	Pass	Pass	Pass	N/A	N/A	N/A
Aug. 18, 2016	3864	Body	1900	1.570	54.610	Pass	Pass	Pass	GMSK	Pass	N/A
Aug. 19, 2016	3864	Body	1900	1.585	50.817	Pass	Pass	Pass	N/A	N/A	N/A

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4.5 System Verification

The measuring result for system verification is tabulated as below.

Test Date	Mode	Frequency (MHz)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Aug. 17, 2016	Body	750	8.44	2.16	8.64	2.37	1013	3864	393
Aug. 19, 2016	Body	750	8.44	2.15	8.60	1.90	1013	3864	393
Aug. 09, 2016	Body	835	9.20	2.20	8.80	-4.35	4d121	7350	1305
Aug. 10, 2016	Body	835	9.20	2.23	8.92	-3.04	4d121	7350	1305
Aug. 12, 2016	Body	835	9.20	2.42	9.68	5.22	4d121	3864	393
Aug. 09, 2016	Body	1750	37.60	8.82	35.28	-6.17	1055	7350	1305
Aug. 19, 2016	Body	1750	36.40	8.89	35.56	-2.31	1023	3864	393
Aug. 09, 2016	Body	1900	40.70	9.68	38.72	-4.86	5d036	7350	1305
Aug. 18, 2016	Body	1900	40.70	9.71	38.84	-4.57	5d036	3864	393
Aug. 19, 2016	Body	1900	40.70	9.80	39.20	-3.69	5d036	3864	393

Note:

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

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4.6 Maximum Output Power

4.6.1 Maximum Conducted Power

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

Mode	Maximum Burst-Averaged Output Power		Maximum Frame-Averaged Output Power		Power Reduction (dB)
	GSM850 (without Power Reduction)	GSM850 (with Power Reduction)	GSM850 (without Power Reduction)	GSM850 (without Power Reduction)	
GPRS (GMSK, 1Tx-slot)	33.0	31.5	24.0	22.5	1.5
GPRS (GMSK, 2Tx-slot)	33.0	29.5	27.0	23.5	3.5
EDGE (8PSK, 1Tx-slot)	27.5	27.0	18.5	18.0	0.5
EDGE (8PSK, 2Tx-slot)	27.5	27.0	21.5	21.0	0.5

Mode	Maximum Burst-Averaged Output Power		Maximum Frame-Averaged Output Power		Power Reduction (dB)
	GSM1900 (without Power Reduction)	GSM1900 (with Power Reduction)	GSM1900 (without Power Reduction)	GSM1900 (with Power Reduction)	
GPRS (GMSK, 1Tx-slot)	30.0	26.0	21.0	17.0	4.0
GPRS (GMSK, 2Tx-slot)	30.0	24.0	24.0	18.0	6.0
EDGE (8PSK, 1Tx-slot)	25.5	25.0	16.5	16.0	0.5
EDGE (8PSK, 2Tx-slot)	25.5	24.0	19.5	18.0	1.5

Note:

- SAR testing was performed on the maximum frame-averaged power mode.
- The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

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

Mode	WCDMA Band II (without Power Reduction)	WCDMA Band II (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	24.0	17.5	6.5
HSDPA	23.0	17.0	6.0
HSUPA	23.0	17.0	6.0

Mode	WCDMA Band IV (without Power Reduction)	WCDMA Band IV (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	24.0	17.5	6.5
HSDPA	23.0	17.0	6.0
HSUPA	23.0	17.0	6.0

Mode	WCDMA Band V
RMC 12.2K	24.0
HSDPA	23.0
HSUPA	23.0

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Mode	CDMA BC0	CDMA BC10
1xRTT	24.5	24.5
1xEVDO Rev.0	24.5	24.5
1xEVDO Rev.A	24.5	24.5

Mode	CDMA BC1 (without Power Reduction)	CDMA BC1 (with Power Reduction)	Power Reduction (dB)
1xRTT	24.5	17.0	7.5
1xEVDO Rev.0	24.5	17.0	7.5
1xEVDO Rev.A	24.5	17.0	7.5

Mode	LTE 2 (without Power Reduction)	LTE 2 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	24.0	17.0	7.0

Mode	LTE 4 (without Power Reduction)	LTE 4 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	24.0	17.0	7.0

Mode	LTE 5	LTE 13
QPSK / 16QAM	24.0	24.0

Mode	LTE 17 (without Power Reduction)	LTE 17 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	24.0	20.5	3.5

Mode	LTE 25 (without Power Reduction)	LTE 25 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	24.0	17.0	7.0

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4.6.2 Measured Conducted Power Result

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

Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
EUT without Power Reduction (P-Sensor NOT Triggered)						
Maximum Burst-Averaged Output Power						
GPRS (GMSK, 1Tx-slot)	32.17	32.06	32.30	29.24	29.50	29.24
GPRS (GMSK, 2Tx-slot)	32.12	31.99	32.24	29.20	29.44	29.17
EDGE (8PSK, 1Tx-slot)	27.05	26.92	27.12	25.06	25.32	25.06
EDGE (8PSK, 2Tx-slot)	26.95	26.83	27.02	24.97	25.23	24.97
EUT with Power Reduction (P-Sensor Triggered)						
Maximum Burst-Averaged Output Power						
GPRS (GMSK, 1Tx-slot)	31.33	31.31	31.25	25.58	25.49	25.11
GPRS (GMSK, 2Tx-slot)	29.24	29.26	29.35	23.57	23.32	23.15
EDGE (8PSK, 1Tx-slot)	26.73	26.74	26.76	24.64	24.19	23.92
EDGE (8PSK, 2Tx-slot)	26.61	26.56	26.64	23.66	23.24	23.02

Band	WCDMA Band II			WCDMA Band IV			3GPP MPR (dB)
Channel	9262	9400	9538	1312	1413	1513	
Frequency (MHz)	1852.4	1880.0	1907.6	1712.4	1732.6	1752.6	
EUT without Power Reduction (P-Sensor NOT Triggered)							
RMC 12.2K	23.25	23.19	23.38	23.00	22.91	22.97	-
HSDPA Subtest-1	22.59	22.52	22.66	22.64	22.51	22.58	0
HSDPA Subtest-2	22.65	22.55	22.74	22.53	22.39	22.44	0
HSDPA Subtest-3	22.06	22.02	22.30	22.26	22.16	22.21	0.5
HSDPA Subtest-4	22.04	21.97	22.13	22.20	22.12	22.19	0.5
HSUPA Subtest-1	22.65	22.55	22.68	22.16	22.03	22.10	0
HSUPA Subtest-2	21.29	21.20	21.37	21.06	20.94	20.98	2
HSUPA Subtest-3	21.19	21.12	21.26	21.11	21.02	21.06	1
HSUPA Subtest-4	21.54	21.43	21.61	20.92	20.78	20.84	2
HSUPA Subtest-5	22.55	22.50	22.68	22.78	22.70	22.77	0
EUT with Power Reduction (P-Sensor Triggered)							
RMC 12.2K	17.36	17.23	17.30	17.03	16.89	16.75	-
HSDPA Subtest-1	16.72	16.58	16.64	16.63	16.52	16.42	0
HSDPA Subtest-2	16.68	16.53	16.61	16.60	16.41	16.29	0
HSDPA Subtest-3	16.23	16.10	16.18	16.21	15.99	15.91	0.5
HSDPA Subtest-4	16.22	16.08	16.15	16.06	15.95	15.82	0.5
HSUPA Subtest-1	16.07	15.93	16.01	16.63	16.53	16.40	0
HSUPA Subtest-2	14.97	14.80	14.85	14.55	14.94	14.78	2
HSUPA Subtest-3	15.35	15.23	15.29	14.91	14.80	14.68	1
HSUPA Subtest-4	14.98	14.91	14.97	14.68	14.95	14.86	2
HSUPA Subtest-5	16.43	16.30	16.39	16.70	16.60	16.37	0

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Band	WCDMA Band V			3GPP MPR (dB)
Channel	4132	4182	4233	
Frequency (MHz)	826.4	836.4	846.6	
RMC 12.2K	22.44	22.47	22.85	-
HSDPA Subtest-1	22.14	22.17	22.49	0
HSDPA Subtest-2	22.19	22.26	22.64	0
HSDPA Subtest-3	21.73	21.75	22.13	0.5
HSDPA Subtest-4	21.66	21.69	22.02	0.5
HSUPA Subtest-1	21.80	21.87	22.20	0
HSUPA Subtest-2	20.69	20.72	21.07	2
HSUPA Subtest-3	20.84	20.89	21.20	1
HSUPA Subtest-4	20.21	20.24	20.54	2
HSUPA Subtest-5	22.33	22.40	22.69	0

Band	CDMA BC0			CDMA BC10		
Channel	1013	384	777	476	580	684
Frequency (MHz)	824.70	836.52	848.31	817.9	820.5	823.1
1xRTT RC1+SO55	23.30	23.56	23.26	23.34	23.41	23.37
1xRTT RC3+SO55	23.59	23.69	23.53	23.48	23.51	23.52
1xRTT RC3+SO32 (FCH)	23.54	23.64	23.48	23.44	23.47	23.48
1xRTT RC3+SO32 (SCH)	23.55	23.61	23.47	23.13	23.36	23.41
1xEVDO Rev.0 RTAP 153.6	23.53	23.63	23.47	23.43	23.46	23.47
1xEVDO Rev.A RETAP 4096	23.48	23.58	23.42	23.40	23.43	23.44

Band	CDMA BC1		
Channel	25	600	1175
Frequency (MHz)	1851.25	1880.00	1908.75
EUT without Power Reduction (P-Sensor NOT Triggered)			
1xRTT RC1+SO55	23.70	23.84	23.85
1xRTT RC3+SO55	23.80	23.81	23.88
1xRTT RC3+SO32 (FCH)	23.79	23.80	23.87
1xRTT RC3+SO32 (SCH)	23.79	23.86	23.87
1xEVDO Rev.0 RTAP 153.6	23.57	23.58	23.65
1xEVDO Rev.A RETAP 4096	23.55	23.56	23.63
EUT with Power Reduction (P-Sensor Triggered)			
1xRTT RC1+SO55	16.69	16.57	16.22
1xRTT RC3+SO55	16.75	16.58	16.39
1xRTT RC3+SO32 (FCH)	16.44	15.86	16.19
1xRTT RC3+SO32 (SCH)	16.74	16.71	16.54
1xEVDO Rev.0 RTAP 153.6	16.46	16.24	16.17
1xEVDO Rev.A RETAP 4096	16.70	16.48	16.41

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18607	Mid CH 18900	High CH 19193		Low CH 18607	Mid CH 18900	High CH 19193	
			1850.7 MHz	1880.0 MHz	1909.3 MHz		1850.7 MHz	1880.0 MHz	1909.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 1.4M	1	0	23.06	23.00	22.82	0	22.08	22.00	21.85	1
	1	2	22.95	22.85	22.74	0	21.94	21.90	21.74	1
	1	5	22.90	23.17	23.22	0	22.13	22.22	22.26	1
	3	0	22.83	22.60	22.37	0	21.77	21.53	21.37	1
	3	1	22.57	22.44	22.25	0	21.48	21.39	21.21	1
	3	3	22.47	22.69	22.57	0	21.72	21.60	21.31	1
	6	0	21.64	21.51	21.32	1	20.63	20.44	20.24	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 1.4M	1	0	15.85	15.91	16.22	0	15.62	15.12	16.03	0
	1	2	16.55	15.98	15.01	0	16.39	15.73	15.31	0
	1	5	15.35	16.16	15.23	0	15.09	15.95	15.03	0
	3	0	16.49	15.42	15.77	0	16.34	15.18	15.54	0
	3	1	16.35	15.72	15.16	0	16.18	15.46	15.09	0
	3	3	15.91	15.96	15.04	0	15.66	15.70	15.05	0
	6	0	16.16	15.68	15.50	0	15.95	15.41	15.28	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18615	Mid CH 18900	High CH 19185		Low CH 18615	Mid CH 18900	High CH 19185	
			1851.5 MHz	1880.0 MHz	1908.5 MHz		1851.5 MHz	1880.0 MHz	1908.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 3M	1	0	23.11	23.02	22.86	0	22.09	21.99	21.83	1
	1	7	22.99	22.93	22.78	0	21.94	21.90	21.79	1
	1	14	23.19	23.21	23.26	0	22.15	22.23	22.29	1
	8	0	21.77	21.65	21.47	1	20.83	20.61	20.38	2
	8	3	21.71	21.57	21.38	1	20.67	20.51	20.35	2
	8	7	21.81	21.77	21.53	1	20.80	20.73	20.48	2
	15	0	21.71	21.61	21.47	1	20.71	20.58	20.43	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 3M	1	0	15.91	15.07	16.23	0	15.72	15.01	16.06	0
	1	7	16.57	15.99	15.14	0	16.43	15.83	15.08	0
	1	14	15.46	16.16	15.35	0	15.23	16.02	15.12	0
	8	0	16.54	15.52	15.84	0	16.36	15.30	15.60	0
	8	3	16.35	15.77	15.26	0	16.20	15.55	15.04	0
	8	7	15.94	15.96	15.16	0	15.74	15.80	15.03	0
	15	0	16.16	15.73	15.60	0	16.02	15.52	15.38	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18625	Mid CH 18900	High CH 19175		Low CH 18625	Mid CH 18900	High CH 19175	
			1852.5 MHz	1880.0 MHz	1907.5 MHz		1852.5 MHz	1880.0 MHz	1907.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 5M	1	0	23.15	23.08	22.96	0	22.22	22.12	21.95	1
	1	12	23.11	23.01	22.90	0	22.06	22.01	21.89	1
	1	24	23.26	23.25	23.28	0	22.16	22.31	22.36	1
	12	0	21.93	21.77	21.60	1	20.92	20.76	20.57	2
	12	6	21.79	21.68	21.55	1	20.72	20.62	20.53	2
	12	13	21.93	21.83	21.68	1	20.87	20.83	20.64	2
	25	0	21.86	21.74	21.56	1	20.80	20.72	20.56	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 5M	1	0	15.99	15.24	16.34	0	15.79	15.06	16.16	0
	1	12	16.65	16.10	15.30	0	16.49	15.91	15.04	0
	1	24	15.61	16.28	15.53	0	15.35	16.11	15.24	0
	12	0	16.62	15.66	15.93	0	16.45	15.42	15.68	0
	12	6	16.47	15.88	15.45	0	16.30	15.64	15.17	0
	12	13	16.03	16.07	15.34	0	15.84	15.89	15.05	0
	25	0	16.28	15.87	15.74	0	16.11	15.61	15.49	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18650	Mid CH 18900	High CH 19150		Low CH 18650	Mid CH 18900	High CH 19150	
			1855.0 MHz	1880.0 MHz	1905.0 MHz		1855.0 MHz	1880.0 MHz	1905.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 10M	1	0	23.22	23.13	23.02	0	22.27	22.21	22.09	1
	1	24	23.10	23.05	22.95	0	22.18	22.13	22.03	1
	1	49	23.15	23.30	23.36	0	22.33	22.36	22.40	1
	25	0	22.06	21.88	21.80	1	21.00	20.89	20.78	2
	25	12	21.87	21.82	21.68	1	20.94	20.79	20.66	2
	25	25	22.00	21.93	21.79	1	21.06	21.00	20.82	2
	50	0	21.95	21.86	21.74	1	20.93	20.86	20.70	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 10M	1	0	16.10	15.37	16.37	0	15.91	15.12	16.21	0
	1	24	16.69	16.17	15.43	0	16.54	16.02	15.22	0
	1	49	15.72	16.32	15.64	0	15.48	16.16	15.38	0
	25	0	16.65	15.79	16.04	0	16.51	15.55	15.83	0
	25	12	16.48	16.00	15.57	0	16.35	15.78	15.33	0
	25	25	16.13	16.15	15.47	0	15.96	15.99	15.23	0
	50	0	16.32	15.98	15.86	0	16.16	15.76	15.63	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18675	Mid CH 18900	High CH 19125		Low CH 18675	Mid CH 18900	High CH 19125	
			1857.5 MHz	1880.0 MHz	1902.5 MHz		1857.5 MHz	1880.0 MHz	1902.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 15M	1	0	23.28	23.22	23.11	0	22.33	22.26	22.15	1
	1	37	23.21	23.15	23.05	0	22.26	22.19	22.10	1
	1	74	23.21	23.37	23.41	0	22.33	22.41	22.47	1
	36	0	22.08	22.01	21.93	1	21.17	20.98	20.88	2
	36	19	21.99	21.93	21.83	1	21.01	20.91	20.78	2
	36	39	22.11	22.06	21.99	1	21.12	21.05	20.91	2
	75	0	22.03	21.99	21.86	1	21.08	20.95	20.83	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 15M	1	0	16.21	15.52	16.47	0	16.02	15.28	16.30	0
	1	37	16.75	16.27	15.58	0	16.60	16.09	15.35	0
	1	74	15.85	16.43	15.76	0	15.62	16.25	15.52	0
	36	0	16.72	15.90	16.15	0	16.57	15.67	15.94	0
	36	19	16.58	16.10	15.70	0	16.41	15.90	15.46	0
	36	39	16.24	16.26	15.60	0	16.04	16.08	15.37	0
	75	0	16.43	16.08	15.96	0	16.25	15.89	15.77	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18700	Mid CH 18900	High CH 19100		Low CH 18700	Mid CH 18900	High CH 19100	
			1860.0 MHz	1880.0 MHz	1900.0 MHz		1860.0 MHz	1880.0 MHz	1900.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 20M	1	0	23.34	23.29	23.20	0	22.28	22.23	22.14	1
	1	50	23.43	23.23	23.34	0	22.37	22.17	22.28	1
	1	99	23.17	23.42	23.51	0	22.11	22.36	22.45	1
	50	0	22.21	22.12	22.07	1	21.15	21.06	21.01	2
	50	25	22.06	22.07	22.00	1	21.00	21.01	20.94	2
	50	50	22.22	22.16	22.01	1	21.16	21.10	20.95	2
	100	0	22.17	22.10	22.10	1	21.11	21.04	21.04	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 20M	1	0	16.29	15.67	16.52	0	16.02	15.40	16.25	0
	1	50	16.80	16.34	15.73	0	16.53	16.07	15.46	0
	1	99	15.96	16.48	15.88	0	15.69	16.21	15.61	0
	50	0	16.77	16.01	16.23	0	16.50	15.74	15.96	0
	50	25	16.63	16.19	15.83	0	16.36	15.92	15.56	0
	50	50	16.31	16.33	15.74	0	16.04	16.06	15.47	0
	100	0	16.48	16.18	16.07	0	16.21	15.91	15.80	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 19957	Mid CH 20175	High CH 20393		Low CH 19957	Mid CH 20175	High CH 20393	
			1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 1.4M	1	0	22.81	22.64	22.77	0	21.80	21.62	21.77	1
	1	2	22.92	22.70	22.87	0	21.95	21.69	21.83	1
	1	5	23.26	23.31	23.27	0	22.21	22.33	22.28	1
	3	0	22.42	22.09	22.21	0	21.39	21.03	21.11	1
	3	1	22.66	22.37	22.59	0	21.65	21.30	21.59	1
	3	3	22.56	22.23	22.45	0	21.53	21.19	21.39	1
	6	0	21.62	21.31	21.56	1	20.59	20.24	20.53	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 1.4M	1	0	15.26	15.64	15.73	0	15.11	15.03	15.45	0
	1	2	15.13	15.63	15.42	0	15.03	15.02	15.31	0
	1	5	15.09	15.20	15.43	0	15.06	15.17	15.30	0
	3	0	15.75	15.55	15.67	0	15.49	15.20	15.37	0
	3	1	15.70	15.40	15.53	0	15.31	15.20	15.37	0
	3	3	15.56	15.34	15.50	0	15.32	15.23	15.40	0
	6	0	15.69	15.21	15.63	0	15.33	15.10	15.42	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 19965	Mid CH 20175	High CH 20385		Low CH 19965	Mid CH 20175	High CH 20385	
			1711.5 MHz	1732.5 MHz	1753.5 MHz		1711.5 MHz	1732.5 MHz	1753.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 3M	1	0	22.83	22.65	22.79	0	21.93	21.75	21.88	1
	1	7	22.95	22.73	22.87	0	22.08	21.83	21.98	1
	1	14	23.19	23.33	23.29	0	22.31	22.40	22.35	1
	8	0	21.37	21.22	21.31	1	20.54	20.18	20.30	2
	8	3	21.71	21.46	21.65	1	20.80	20.45	20.70	2
	8	7	21.59	21.35	21.51	1	20.67	20.34	20.54	2
	15	0	21.65	21.40	21.59	1	20.76	20.41	20.67	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 3M	1	0	15.39	15.34	15.84	0	15.19	15.49	15.65	0
	1	7	15.09	15.88	15.53	0	15.08	15.62	15.40	0
	1	14	15.12	15.42	15.13	0	15.10	15.21	15.19	0
	8	0	15.93	15.69	15.73	0	15.67	15.25	15.58	0
	8	3	15.66	15.87	15.61	0	15.56	15.55	15.44	0
	8	7	15.84	15.48	15.07	0	15.57	15.26	15.39	0
	15	0	15.82	15.77	15.77	0	15.62	15.45	15.51	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 19975	Mid CH 20175	High CH 20375		Low CH 19975	Mid CH 20175	High CH 20375	
			1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 5M	1	0	22.90	22.75	22.87	0	21.96	21.77	21.93	1
	1	12	23.01	22.82	22.98	0	22.11	21.86	22.04	1
	1	24	23.23	23.40	23.32	0	22.33	22.46	22.40	1
	12	0	21.60	21.37	21.47	1	20.48	20.32	20.41	2
	12	6	21.82	21.58	21.77	1	20.79	20.55	20.70	2
	12	13	21.72	21.51	21.66	1	20.64	20.46	20.60	2
	25	0	21.76	21.55	21.72	1	20.72	20.50	20.64	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 5M	1	0	15.50	16.21	15.92	0	15.27	16.10	15.75	0
	1	12	15.36	16.20	15.70	0	15.03	16.02	15.58	0
	1	24	15.20	15.53	15.15	0	15.12	15.30	15.06	0
	12	0	16.22	16.17	15.83	0	16.16	15.93	15.65	0
	12	6	16.13	16.20	15.66	0	16.04	16.02	15.48	0
	12	13	16.02	15.59	15.05	0	16.13	15.37	15.03	0
	25	0	16.09	16.11	15.92	0	16.10	16.10	15.48	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20000	Mid CH 20175	High CH 20350		Low CH 20000	Mid CH 20175	High CH 20350	
			1715.0 MHz	1732.5 MHz	1750.0 MHz		1715.0 MHz	1732.5 MHz	1750.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 10M	1	0	23.00	22.83	22.97	0	22.02	21.85	21.98	1
	1	24	23.10	22.92	23.02	0	22.14	21.92	22.06	1
	1	49	23.41	23.46	23.41	0	22.43	22.49	22.45	1
	25	0	21.70	21.52	21.59	1	20.74	20.47	20.57	2
	25	12	21.87	21.72	21.82	1	20.90	20.70	20.88	2
	25	25	21.81	21.64	21.73	1	20.83	20.59	20.79	2
	50	0	21.83	21.67	21.81	1	20.86	20.64	20.83	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 10M	1	0	15.63	16.30	16.03	0	15.44	15.99	15.86	0
	1	24	15.44	16.29	15.92	0	15.33	16.06	15.59	0
	1	49	15.31	15.66	15.16	0	15.35	15.47	15.21	0
	25	0	16.33	16.26	16.03	0	16.09	16.08	15.84	0
	25	12	16.12	16.29	15.78	0	16.00	15.95	15.70	0
	25	25	16.20	15.70	15.34	0	15.93	15.52	15.31	0
	50	0	16.27	16.28	15.93	0	16.04	16.03	15.77	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20025	Mid CH 20175	High CH 20325		Low CH 20025	Mid CH 20175	High CH 20325	
			1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 15M	1	0	23.09	22.95	23.07	0	22.10	21.95	22.08	1
	1	37	23.15	23.03	23.13	0	22.26	22.03	22.15	1
	1	74	23.39	23.50	23.49	0	22.52	22.53	22.48	1
	36	0	21.87	21.67	21.77	1	20.82	20.62	20.72	2
	36	19	22.01	21.85	21.99	1	21.02	20.85	21.00	2
	36	39	21.95	21.80	21.87	1	20.95	20.76	20.88	2
	75	0	21.97	21.82	21.95	1	20.97	20.78	20.95	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 15M	1	0	15.75	16.30	16.09	0	15.53	16.10	15.94	0
	1	37	15.54	16.35	15.92	0	15.41	16.19	15.68	0
	1	74	15.06	15.78	15.42	0	15.13	15.56	15.02	0
	36	0	16.40	16.33	16.08	0	16.34	16.26	15.94	0
	36	19	16.30	16.35	15.89	0	16.12	16.19	15.76	0
	36	39	16.28	15.82	15.44	0	16.14	15.61	15.09	0
	75	0	16.34	16.39	15.99	0	16.22	16.24	15.72	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20050	Mid CH 20175	High CH 20300		Low CH 20050	Mid CH 20175	High CH 20300	
			1720.0 MHz	1732.5 MHz	1745.0 MHz		1720.0 MHz	1732.5 MHz	1745.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 20M	1	0	23.15	23.03	23.13	0	22.09	21.97	22.07	1
	1	50	23.21	23.09	23.25	0	22.15	22.03	22.19	1
	1	99	22.99	23.51	23.33	0	21.93	22.55	22.27	1
	50	0	21.75	21.82	21.88	1	20.69	20.76	20.82	2
	50	25	21.95	21.98	22.13	1	20.89	20.92	21.07	2
	50	50	22.02	21.93	21.92	1	20.96	20.87	20.86	2
	100	0	21.98	21.95	22.08	1	20.92	20.89	21.02	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 20M	1	0	15.84	16.54	16.16	0	15.60	16.30	15.92	0
	1	50	16.74	16.41	16.43	0	16.50	16.17	16.19	0
	1	99	15.74	15.86	16.16	0	15.50	15.62	15.92	0
	50	0	16.86	16.46	16.23	0	16.62	16.22	15.99	0
	50	25	16.74	16.41	16.39	0	16.50	16.17	16.15	0
	50	50	16.61	15.90	16.09	0	16.37	15.66	15.85	0
	100	0	16.70	16.45	16.31	0	16.46	16.21	16.07	0

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LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20407	Mid CH 20525	High CH 20643		Low CH 20407	Mid CH 20525	High CH 20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
5 / 1.4M	1	0	22.38	22.51	22.88	0	21.40	21.55	21.94	1
	1	2	22.68	22.91	23.24	0	21.73	21.97	22.28	1
	1	5	22.55	22.71	23.03	0	21.61	21.77	22.04	1
	3	0	22.10	22.08	22.16	0	21.01	21.08	21.12	1
	3	1	22.02	22.03	22.09	0	21.02	21.04	21.06	1
	3	3	22.01	22.06	22.10	0	21.03	21.05	21.11	1
	6	0	21.37	21.51	21.81	1	20.33	20.49	20.89	2

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20415	Mid CH 20525	High CH 20635		Low CH 20415	Mid CH 20525	High CH 20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
5 / 3M	1	0	22.47	22.61	22.94	0	21.48	21.63	21.98	1
	1	7	22.85	22.96	23.14	0	21.82	22.01	22.14	1
	1	14	22.71	22.79	23.23	0	21.71	21.84	22.31	1
	8	0	21.69	21.82	22.20	1	20.61	20.81	21.26	2
	8	3	21.62	21.79	22.11	1	20.56	20.77	21.12	2
	8	7	21.55	21.74	22.08	1	20.53	20.71	21.06	2
	15	0	21.51	21.67	21.97	1	20.46	20.64	20.95	2

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20425	Mid CH 20525	High CH 20625		Low CH 20425	Mid CH 20525	High CH 20625	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
5 / 5M	1	0	22.57	22.70	23.02	0	21.56	21.70	22.05	1
	1	12	22.93	23.04	23.27	0	21.89	22.07	22.34	1
	1	24	22.75	22.87	23.28	0	21.76	21.88	22.39	1
	12	0	21.83	21.95	22.32	1	20.84	20.92	21.25	2
	12	6	21.77	21.92	22.23	1	20.72	20.88	21.23	2
	12	13	21.73	21.87	22.17	1	20.65	20.81	21.18	2
	25	0	21.66	21.81	22.14	1	20.61	20.75	21.09	2

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20450	Mid CH 20525	High CH 20600		Low CH 20450	Mid CH 20525	High CH 20600	
			829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz	
5 / 10M	1	0	22.65	22.78	23.08	0	21.62	21.75	22.05	1
	1	24	23.05	23.09	22.84	0	22.02	22.06	21.81	1
	1	49	22.97	22.94	23.30	0	21.94	21.91	22.37	1
	25	0	21.97	22.07	21.96	1	20.94	21.04	20.93	2
	25	12	21.93	22.04	22.06	1	20.90	21.01	21.03	2
	25	25	21.99	21.99	22.01	1	20.96	20.96	20.98	2
	50	0	21.81	21.93	21.88	1	20.78	20.90	20.85	2

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LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23205	Mid CH 23230	High CH 23255		Low CH 23205	Mid CH 23230	High CH 23255	
			779.5 MHz	782.0 MHz	784.5 MHz		779.5 MHz	782.0 MHz	784.5 MHz	
13 / 5M	1	0	23.13	23.16	23.11	0	22.17	22.21	22.14	1
	1	12	23.12	23.15	23.08	0	22.15	22.19	22.11	1
	1	24	23.06	23.09	23.02	0	22.07	22.12	21.99	1
	12	0	22.23	22.26	22.20	1	21.24	21.27	21.17	2
	12	6	22.17	22.20	22.13	1	21.14	21.19	21.09	2
	12	13	22.10	22.13	22.08	1	21.06	21.10	21.04	2
	25	0	22.07	22.10	22.05	1	21.02	21.06	21.00	2

LTE Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)
			Mid CH 23230		Mid CH 23230	
			782.0 MHz		782.0 MHz	
13 / 10M	1	0	23.92	0	22.87	1
	1	24	23.13	0	22.08	1
	1	49	22.86	0	21.81	1
	25	0	21.89	1	20.84	2
	25	12	22.04	1	20.99	2
	25	25	22.02	1	20.99	2
	50	0	22.01	1	20.96	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23755	Mid CH 23790	High CH 23825		Low CH 23755	Mid CH 23790	High CH 23825	
			706.5 MHz	710.0 MHz	713.5 MHz		706.5 MHz	710.0 MHz	713.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
17 / 5M	1	0	22.72	22.63	22.44	0	21.67	21.64	21.44	1
	1	12	22.70	22.70	22.58	0	21.60	21.62	21.62	1
	1	24	22.61	22.53	22.36	0	21.66	21.54	21.27	1
	12	0	21.78	21.69	21.51	1	20.86	20.70	20.53	2
	12	6	21.74	21.63	21.47	1	20.76	20.61	20.42	2
	12	13	21.67	21.60	21.42	1	20.67	20.57	20.38	2
	25	0	21.73	21.62	21.45	1	20.74	20.60	20.41	2
EUT with Power Reduction (P-Sensor Triggered)										
17 / 5M	1	0	19.65	19.72	19.66	0	19.42	19.49	19.43	0
	1	12	19.95	19.89	19.90	0	19.80	19.67	19.65	0
	1	24	19.77	19.85	19.82	0	19.55	19.67	19.58	0
	12	0	19.71	19.78	19.74	0	19.48	19.58	19.52	0
	12	6	19.80	19.90	19.86	0	19.58	19.74	19.65	0
	12	13	19.89	19.81	19.94	0	19.74	19.69	19.77	0
	25	0	19.80	19.87	19.84	0	19.61	19.71	19.63	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23780	Mid CH 23790	High CH 23800		Low CH 23780	Mid CH 23790	High CH 23800	
			709.0 MHz	710.0 MHz	711.0 MHz		709.0 MHz	710.0 MHz	711.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
17 / 10M	1	0	22.77	22.68	22.52	0	21.70	21.61	21.45	1
	1	24	22.74	22.75	22.70	0	21.67	21.68	21.63	1
	1	49	22.67	22.60	22.39	0	21.60	21.53	21.32	1
	25	0	21.79	21.81	21.74	1	20.72	20.74	20.67	2
	25	12	21.81	21.76	21.71	1	20.74	20.69	20.64	2
	25	25	21.76	21.73	21.62	1	20.69	20.66	20.55	2
	50	0	21.62	21.75	21.55	1	20.55	20.68	20.48	2
EUT with Power Reduction (P-Sensor Triggered)										
17 / 10M	1	0	19.80	19.85	19.81	0	19.55	19.60	19.56	0
	1	24	20.13	20.08	19.95	0	19.88	19.83	19.70	0
	1	49	20.01	19.94	19.87	0	19.76	19.69	19.62	0
	25	0	19.98	19.90	19.98	0	19.73	19.65	19.73	0
	25	12	19.96	19.98	20.07	0	19.71	19.73	19.82	0
	25	25	20.01	20.05	19.90	0	19.76	19.80	19.65	0
	50	0	19.84	19.96	19.92	0	19.59	19.71	19.67	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26047	Mid CH 26365	High CH 26683		Low CH 26047	Mid CH 26365	High CH 26683	
			1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 1.4M	1	0	22.71	23.11	22.85	0	21.76	22.19	21.91	1
	1	2	22.45	22.93	22.65	0	21.54	22.01	21.72	1
	1	5	22.35	22.79	22.49	0	21.42	21.86	21.51	1
	3	0	22.08	22.40	22.23	0	21.13	21.33	21.23	1
	3	1	22.03	22.39	22.08	0	21.01	21.06	21.05	1
	3	3	22.10	22.03	22.30	0	21.03	21.23	21.21	1
	6	0	21.12	21.53	21.24	1	20.05	20.57	20.17	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 1.4M	1	0	15.78	15.78	15.74	0	15.47	15.53	15.45	0
	1	2	16.59	16.08	16.04	0	16.37	15.84	15.91	0
	1	5	16.52	16.32	16.37	0	16.07	16.07	16.31	0
	3	0	16.29	15.38	16.45	0	16.33	15.13	16.22	0
	3	1	16.44	16.25	16.27	0	16.27	16.02	16.19	0
	3	3	16.13	15.99	16.01	0	15.99	15.72	15.81	0
	6	0	16.17	16.08	16.13	0	16.05	15.84	15.99	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26055	Mid CH 26365	High CH 26675		Low CH 26055	Mid CH 26365	High CH 26675	
			1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 3M	1	0	22.82	23.19	22.93	0	21.85	22.24	21.96	1
	1	7	22.65	23.01	22.79	0	21.58	22.04	21.72	1
	1	14	22.54	22.90	22.60	0	21.42	21.93	21.65	1
	8	0	21.13	21.63	21.32	1	20.11	20.58	20.29	2
	8	3	21.08	21.55	21.16	1	20.03	20.52	20.09	2
	8	7	21.27	21.76	21.50	1	20.29	20.73	20.44	2
	15	0	21.23	21.69	21.39	1	20.17	20.65	20.29	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 3M	1	0	15.90	15.33	15.86	0	15.67	15.68	15.64	0
	1	7	16.68	16.18	16.09	0	16.49	15.99	15.92	0
	1	14	16.57	16.40	16.42	0	16.11	16.20	16.31	0
	8	0	16.53	15.51	16.51	0	16.44	15.28	16.38	0
	8	3	16.53	16.36	16.46	0	16.27	16.14	16.24	0
	8	7	16.23	16.11	16.14	0	16.09	15.92	15.95	0
	15	0	16.27	16.18	16.24	0	16.13	15.99	16.09	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26065	Mid CH 26365	High CH 26665		Low CH 26065	Mid CH 26365	High CH 26665	
			1852.5 MHz	1882.5 MHz	1912.5 MHz		1852.5 MHz	1882.5 MHz	1912.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 5M	1	0	22.90	23.24	23.00	0	21.92	22.29	22.02	1
	1	12	22.73	23.06	22.80	0	21.75	22.10	21.80	1
	1	24	22.57	22.96	22.64	0	21.56	22.00	21.75	1
	12	0	21.32	21.70	21.41	1	20.21	20.72	20.35	2
	12	6	21.23	21.64	21.30	1	20.19	20.66	20.24	2
	12	13	21.41	21.81	21.62	1	20.40	20.82	20.52	2
	25	0	21.36	21.75	21.46	1	20.31	20.76	20.46	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 5M	1	0	16.07	15.09	16.02	0	15.82	15.03	15.78	0
	1	12	16.77	16.33	16.33	0	16.61	16.10	16.02	0
	1	24	16.43	16.53	16.56	0	16.23	16.30	16.29	0
	12	0	16.63	15.69	16.71	0	16.45	15.45	16.47	0
	12	6	16.59	16.50	16.48	0	16.42	16.27	16.34	0
	12	13	16.36	16.28	16.30	0	16.12	16.03	15.99	0
	25	0	16.30	16.33	16.23	0	16.17	16.10	16.00	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26090	Mid CH 26365	High CH 26640		Low CH 26090	Mid CH 26365	High CH 26640	
			1855.0 MHz	1882.5 MHz	1910.0 MHz		1855.0 MHz	1882.5 MHz	1910.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 10M	1	0	22.94	23.29	23.05	0	21.98	22.31	22.06	1
	1	24	22.73	23.12	22.83	0	21.72	22.13	21.87	1
	1	49	22.68	23.01	22.78	0	21.64	22.05	21.76	1
	25	0	21.41	21.79	21.63	1	20.37	20.78	20.51	2
	25	12	21.38	21.74	21.46	1	20.33	20.72	20.44	2
	25	25	21.51	21.90	21.68	1	20.49	20.89	20.63	2
	50	0	21.49	21.84	21.54	1	20.44	20.83	20.53	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 10M	1	0	16.18	15.25	16.15	0	15.94	15.12	15.90	0
	1	24	16.88	16.44	16.37	0	16.68	16.22	16.13	0
	1	49	16.65	16.65	16.62	0	16.35	16.44	16.43	0
	25	0	16.84	15.83	16.77	0	16.59	15.57	16.53	0
	25	12	16.72	16.61	16.54	0	16.49	16.38	16.41	0
	25	25	16.39	16.39	16.29	0	16.24	16.15	16.16	0
	50	0	16.44	16.44	16.41	0	16.29	16.22	16.24	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26115	Mid CH 26365	High CH 26615		Low CH 26115	Mid CH 26365	High CH 26615	
			1857.5 MHz	1882.5 MHz	1907.5 MHz		1857.5 MHz	1882.5 MHz	1907.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 15M	1	0	23.03	23.34	23.11	0	22.06	22.33	22.15	1
	1	37	22.83	23.17	22.90	0	21.87	22.22	21.95	1
	1	74	22.74	23.10	22.86	0	21.77	22.13	21.90	1
	36	0	21.57	21.92	21.62	1	20.53	20.91	20.66	2
	36	19	21.53	21.87	21.58	1	20.50	20.86	20.58	2
	36	39	21.68	22.02	21.82	1	20.66	21.02	20.77	2
	75	0	21.62	21.97	21.70	1	20.60	20.95	20.66	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 15M	1	0	16.30	15.37	16.28	0	16.07	15.12	16.03	0
	1	37	16.90	16.54	16.42	0	16.67	16.33	16.29	0
	1	74	16.72	16.74	16.64	0	16.46	16.54	16.45	0
	36	0	16.88	15.95	16.80	0	16.65	15.70	16.63	0
	36	19	16.67	16.70	16.58	0	16.54	16.48	16.48	0
	36	39	16.47	16.51	16.41	0	16.29	16.28	16.23	0
	75	0	16.51	16.54	16.47	0	16.34	16.33	16.29	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26140	Mid CH 26365	High CH 26590		Low CH 26140	Mid CH 26365	High CH 26590	
			1860.0 MHz	1882.5 MHz	1905.0 MHz		1860.0 MHz	1882.5 MHz	1905.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 20M	1	0	23.09	23.39	23.16	0	22.01	22.40	22.08	1
	1	50	23.35	23.22	23.26	0	22.27	22.14	22.18	1
	1	99	23.29	23.15	23.29	0	22.21	22.07	22.21	1
	50	0	22.03	22.01	22.10	1	20.95	20.93	21.02	2
	50	25	22.14	21.97	21.98	1	21.06	20.89	20.90	2
	50	50	22.02	22.10	22.12	1	20.94	21.02	21.04	2
	100	0	22.09	22.05	22.08	1	21.01	20.97	21.00	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 20M	1	0	16.44	15.52	16.42	0	16.16	15.24	16.14	0
	1	50	16.93	16.67	15.77	0	16.62	16.39	15.49	0
	1	99	15.67	16.85	16.66	0	15.39	16.57	16.38	0
	50	0	16.87	16.10	16.25	0	16.59	15.82	15.97	0
	50	25	16.81	16.82	15.87	0	16.53	16.54	15.59	0
	50	50	16.33	16.64	16.31	0	16.05	16.36	16.03	0
	100	0	16.56	16.67	16.54	0	16.28	16.39	16.26	0

4.7 SAR Testing Results

4.7.1 SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

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

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

<KDB 941225 D01, 3G SAR Measurement Procedures>

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

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

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

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

(2) QPSK with 100% RB allocation

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

(3) Higher order modulations

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

(4) Other channel bandwidth

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

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4.7.2 SAR Results for Body Exposure Condition

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
01	GSM850	GPRS10	Rear Face	1.7	251	w/o	33.0	32.24	1.19	-0.01	0.174	0.21
	GSM850	GPRS10	Rear Face	0	128	w/	29.5	29.24	1.06	-0.02	1.29	1.37
	GSM850	GPRS10	Rear Face	0	128	w/	29.5	29.24	1.06	0.01	1.27	1.35
	GSM850	GPRS10	Rear Face	0	189	w/	29.5	29.26	1.06	-0.16	1.1	1.16
	GSM850	GPRS10	Rear Face	0	251	w/	29.5	29.35	1.04	-0.18	0.937	0.97
	GSM850	EDGE10	Rear Face	0	251	w/	27.0	26.64	1.09	0.05	0.489	0.53
	GSM850	GPRS10	Left Side	0	251	w/o	33.0	32.24	1.19	0.01	0.030	0.04
	GSM850	GPRS10	Right Side	0	251	w/o	33.0	32.24	1.19	-0.09	0.082	0.10
	GSM850	GPRS10	Top Side	2.6	251	w/o	33.0	32.24	1.19	-0.01	0.072	0.09
	GSM850	GPRS10	Top Side	0	128	w/	29.5	29.24	1.06	-0.02	1.18	1.25
	GSM850	GPRS10	Top Side	0	189	w/	29.5	29.26	1.06	-0.09	0.885	0.94
	GSM850	GPRS10	Top Side	0	251	w/	29.5	29.35	1.04	-0.11	0.775	0.80
	GSM850	GPRS10	Bottom Side	0	251	w/o	33.0	32.24	1.19	-0.15	0.019	0.02
02	GSM1900	GPRS10	Rear Face	1.7	661	w/o	30.0	29.44	1.14	-0.05	0.341	0.39
	GSM1900	GPRS10	Rear Face	0	512	w/	24.0	23.57	1.10	-0.01	0.87	0.96
	GSM1900	GPRS10	Rear Face	0	661	w/	24.0	23.32	1.17	0.04	0.999	1.17
	GSM1900	GPRS10	Rear Face	0	810	w/	24.0	23.15	1.22	-0.08	0.803	0.98
	GSM1900	GPRS10	Right Side	0	661	w/o	30.0	29.44	1.14	-0.01	0.304	0.35
	GSM1900	GPRS10	Top Side	2.6	661	w/o	30.0	29.44	1.14	-0.16	0.28	0.32
	GSM1900	GPRS10	Top Side	0	512	w/	24.0	23.57	1.10	-0.04	1.24	1.37
	GSM1900	GPRS10	Top Side	0	512	w/	24.0	23.57	1.10	0.02	1.19	1.31
	GSM1900	GPRS10	Top Side	0	661	w/	24.0	23.32	1.17	-0.17	1.16	1.36
	GSM1900	GPRS10	Top Side	0	810	w/	24.0	23.15	1.22	-0.06	1.03	1.25
	GSM1900	EDGE10	Top Side	0	512	w/	24.0	23.66	1.08	-0.07	1.01	1.09
	GSM1900	EDGE10	Top Side	0	661	w/	24.0	23.24	1.19	0.01	1.08	1.29
	GSM1900	EDGE10	Top Side	0	810	w/	24.0	23.02	1.25	-0.04	1.02	1.28
03	WCDMA II	RMC12.2K	Rear Face	1.7	9538	w/o	24.0	23.38	1.15	-0.05	0.296	0.34
	WCDMA II	RMC12.2K	Rear Face	0	9262	w/	17.5	17.36	1.03	0.00	0.544	0.56
	WCDMA II	RMC12.2K	Right Side	0	9538	w/o	24.0	23.38	1.15	-0.06	0.291	0.34
	WCDMA II	RMC12.2K	Top Side	2.6	9538	w/o	24.0	23.38	1.15	-0.02	0.231	0.27
	WCDMA II	RMC12.2K	Top Side	0	9262	w/	17.5	17.36	1.03	-0.09	0.85	0.88
	WCDMA II	RMC12.2K	Top Side	0	9262	w/	17.5	17.36	1.03	0.10	0.83	0.86
	WCDMA II	RMC12.2K	Top Side	0	9400	w/	17.5	17.23	1.06	0.10	0.845	0.90
	WCDMA II	RMC12.2K	Top Side	0	9538	w/	17.5	17.30	1.05	-0.16	0.825	0.86
	WCDMA IV	RMC12.2K	Rear Face	1.7	1312	w/o	24.0	23.00	1.26	-0.04	0.289	0.36
	WCDMA IV	RMC12.2K	Rear Face	0	1312	w/	17.5	17.03	1.11	-0.05	0.665	0.74
	WCDMA IV	RMC12.2K	Right Side	0	1312	w/o	24.0	23.00	1.26	-0.05	0.076	0.10
	WCDMA IV	RMC12.2K	Top Side	2.6	1312	w/o	24.0	23.00	1.26	-0.05	0.134	0.17
04	WCDMA IV	RMC12.2K	Top Side	0	1312	w/	17.5	17.03	1.11	0.07	0.616	0.69
	WCDMA V	RMC12.2K	Rear Face	0	4233	w/o	24.0	22.85	1.30	0.17	0.660	0.86
	WCDMA V	RMC12.2K	Rear Face	0	4132	w/o	24.0	22.44	1.43	0.08	0.584	0.84
	WCDMA V	RMC12.2K	Rear Face	0	4182	w/o	24.0	22.47	1.42	0.09	0.592	0.84
	WCDMA V	RMC12.2K	Right Side	0	4233	w/o	24.0	22.85	1.30	-0.11	0.045	0.06
	WCDMA V	RMC12.2K	Top Side	0	4233	w/o	24.0	22.85	1.30	-0.04	0.817	1.06
	WCDMA V	RMC12.2K	Top Side	0	4132	w/o	24.0	22.44	1.43	0.14	0.853	1.22
	WCDMA V	RMC12.2K	Top Side	0	4132	w/o	24.0	22.44	1.43	0.14	0.847	1.21
	WCDMA V	RMC12.2K	Top Side	0	4182	w/o	24.0	22.47	1.42	-0.16	0.808	1.15
	WCDMA V	HSDPA Subtest-2	Top Side	0	4233	w/o	23.0	22.64	1.09	0.12	0.594	0.65
	WCDMA V	HSDPA Subtest-2	Top Side	0	4132	w/o	23.0	22.19	1.21	0.16	0.592	0.71
	WCDMA V	HSDPA Subtest-2	Top Side	0	4182	w/o	23.0	22.26	1.19	-0.08	0.563	0.67
05	WCDMA V	HSUPA Subtest-5	Top Side	0	4233	w/o	23.0	22.69	1.07	-0.03	0.561	0.60
	WCDMA V	HSUPA Subtest-5	Top Side	0	4132	w/o	23.0	22.33	1.17	0.01	0.588	0.69
	WCDMA V	HSUPA Subtest-5	Top Side	0	4182	w/o	23.0	22.40	1.15	0.09	0.547	0.63
	WCDMA V	HSUPA Subtest-5	Top Side	0	4182	w/o	23.0	22.40	1.15	0.09	0.547	0.63

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	CDMA BC0	RTAP 153.6	Rear Face	0	384	w/o	24.5	23.63	1.22	-0.13	0.847	1.03
	CDMA BC0	RTAP 153.6	Rear Face	0	1013	w/o	24.5	23.53	1.25	0.02	0.931	1.16
	CDMA BC0	RTAP 153.6	Rear Face	0	777	w/o	24.5	23.47	1.27	-0.17	0.752	0.95
	CDMA BC0	RTAP 153.6	Right Side	0	384	w/o	24.5	23.63	1.22	-0.15	0.065	0.08
	CDMA BC0	RTAP 153.6	Top Side	0	384	w/o	24.5	23.63	1.22	0.01	0.986	1.20
06	CDMA BC0	RTAP 153.6	Top Side	0	1013	w/o	24.5	23.53	1.25	0.01	1.04	1.30
	CDMA BC0	RTAP 153.6	Top Side	0	1013	w/o	24.5	23.53	1.25	0.01	1.02	1.28
	CDMA BC0	RTAP 153.6	Top Side	0	777	w/o	24.5	23.47	1.27	-0.18	0.951	1.21
	CDMA BC0	RETAP 4096	Top Side	0	384	w/o	24.5	23.58	1.24	0.13	0.976	1.21
	CDMA BC0	RETAP 4096	Top Side	0	1013	w/o	24.5	23.48	1.26	0.18	0.982	1.24
	CDMA BC0	RETAP 4096	Top Side	0	777	w/o	24.5	23.42	1.28	0.06	0.907	1.16
	CDMA BC1	RTAP 153.6	Rear Face	1.7	1175	w/o	24.5	23.65	1.22	0.11	0.353	0.43
	CDMA BC1	RTAP 153.6	Rear Face	0	25	w/	17.0	16.46	1.13	-0.15	0.336	0.38
	CDMA BC1	RTAP 153.6	Right Side	0	1175	w/o	24.5	23.65	1.22	-0.16	0.255	0.31
	CDMA BC1	RTAP 153.6	Top Side	2.6	1175	w/o	24.5	23.65	1.22	-0.18	0.287	0.35
07	CDMA BC1	RTAP 153.6	Top Side	0	25	w/	17.0	16.46	1.13	0.05	0.527	0.60
	CDMA BC10	RTAP 153.6	Rear Face	0	684	w/o	24.5	23.47	1.27	0.08	0.898	1.14
	CDMA BC10	RTAP 153.6	Rear Face	0	476	w/o	24.5	23.43	1.28	-0.17	0.859	1.10
	CDMA BC10	RTAP 153.6	Rear Face	0	580	w/o	24.5	23.46	1.27	-0.13	0.864	1.10
	CDMA BC10	RTAP 153.6	Right Side	0	684	w/o	24.5	23.47	1.27	-0.06	0.066	0.08
08	CDMA BC10	RTAP 153.6	Top Side	0	684	w/o	24.5	23.47	1.27	0.00	1.03	1.31
	CDMA BC10	RTAP 153.6	Top Side	0	684	w/o	24.5	23.47	1.27	0.00	1.01	1.28
	CDMA BC10	RTAP 153.6	Top Side	0	476	w/o	24.5	23.43	1.28	-0.16	0.976	1.25
	CDMA BC10	RTAP 153.6	Top Side	0	580	w/o	24.5	23.46	1.27	0.18	0.987	1.25
	CDMA BC10	RETAP 4096	Top Side	0	684	w/o	24.5	23.44	1.28	0.07	0.966	1.23
	CDMA BC10	RETAP 4096	Top Side	0	476	w/o	24.5	23.40	1.29	-0.09	0.943	1.21
	CDMA BC10	RETAP 4096	Top Side	0	580	w/o	24.5	23.43	1.28	-0.04	0.941	1.20

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 2	QPSK20M	Rear Face	1.7	19100	w/o	1	99	24.0	23.51	1.12	-0.08	0.299	0.33
	LTE 2	QPSK20M	Rear Face	1.7	18700	w/o	50	50	23.0	22.22	1.20	-0.11	0.248	0.30
	LTE 2	QPSK20M	Rear Face	0	18700	w/	1	50	17.0	16.80	1.05	0.00	0.623	0.65
	LTE 2	QPSK20M	Rear Face	0	18700	w/	50	0	17.0	16.77	1.05	-0.19	0.366	0.39
	LTE 2	QPSK20M	Right Side	0	19100	w/o	1	99	24.0	23.51	1.12	-0.17	0.227	0.25
	LTE 2	QPSK20M	Right Side	0	18700	w/o	50	50	23.0	22.22	1.20	-0.1	0.191	0.23
	LTE 2	QPSK20M	Top Side	2.6	19100	w/o	1	99	24.0	23.51	1.12	-0.16	0.252	0.28
	LTE 2	QPSK20M	Top Side	2.6	18700	w/o	50	50	23.0	22.22	1.20	-0.03	0.236	0.28
	LTE 2	QPSK20M	Top Side	0	18700	w/	1	50	17.0	16.80	1.05	-0.04	0.854	0.89
	LTE 2	QPSK20M	Top Side	0	18700	w/	1	50	17.0	16.80	1.05	-0.04	0.848	0.89
	LTE 2	QPSK20M	Top Side	0	18900	w/	1	99	17.0	16.48	1.13	-0.11	0.547	0.62
	LTE 2	QPSK20M	Top Side	0	19100	w/	1	0	17.0	16.52	1.12	-0.11	0.711	0.79
	LTE 2	QPSK20M	Top Side	0	18700	w/	50	0	17.0	16.77	1.05	-0.02	0.622	0.66
09	LTE 2	QPSK20M	Top Side	0	18700	w/	100	0	17.0	16.48	1.13	-0.16	0.803	0.91
	LTE 4	QPSK20M	Rear Face	1.7	20175	w/o	1	99	24.0	23.51	1.12	0.02	0.287	0.32
	LTE 4	QPSK20M	Rear Face	1.7	20300	w/o	50	25	23.0	22.13	1.22	-0.13	0.236	0.29
	LTE 4	QPSK20M	Rear Face	0	20050	w/	1	50	17.0	16.74	1.06	-0.11	0.441	0.47
10	LTE 4	QPSK20M	Rear Face	0	20050	w/	50	0	17.0	16.86	1.03	-0.02	0.55	0.57
	LTE 4	QPSK20M	Right Side	0	20175	w/o	1	99	24.0	23.51	1.12	-0.12	0.193	0.22
	LTE 4	QPSK20M	Right Side	0	20300	w/o	50	25	23.0	22.13	1.22	-0.13	0.136	0.17
	LTE 4	QPSK20M	Top Side	2.6	20175	w/o	1	99	24.0	23.51	1.12	0.03	0.258	0.29
	LTE 4	QPSK20M	Top Side	2.6	20300	w/o	50	25	23.0	22.13	1.22	-0.18	0.199	0.24
	LTE 4	QPSK20M	Top Side	0	20050	w/	1	50	17.0	16.74	1.06	-0.17	0.209	0.22
	LTE 4	QPSK20M	Top Side	0	20050	w/	50	0	17.0	16.86	1.03	-0.1	0.25	0.26

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 5	QPSK10M	Rear Face	0	20600	w/o	1	49	24.0	23.30	1.17	0.02	0.715	0.84
	LTE 5	QPSK10M	Rear Face	0	20450	w/o	1	24	24.0	23.05	1.24	-0.08	0.707	0.88
	LTE 5	QPSK10M	Rear Face	0	20525	w/o	1	24	24.0	23.09	1.23	-0.03	0.705	0.87
	LTE 5	QPSK10M	Rear Face	0	20525	w/o	25	0	23.0	22.07	1.24	-0.09	0.565	0.70
	LTE 5	QPSK10M	Rear Face	0	20525	w/o	50	0	23.0	21.93	1.28	-0.01	0.547	0.70
	LTE 5	QPSK10M	Right Side	0	20600	w/o	1	49	24.0	23.30	1.17	-0.1	0.044	0.05
	LTE 5	QPSK10M	Right Side	0	20525	w/o	25	0	23.0	22.07	1.24	0.18	0.037	0.05
	LTE 5	QPSK10M	Top Side	0	20600	w/o	1	49	24.0	23.30	1.17	-0.05	0.776	0.91
11	LTE 5	QPSK10M	Top Side	0	20450	w/o	1	24	24.0	23.05	1.24	0.07	0.860	1.07
	LTE 5	QPSK10M	Top Side	0	20450	w/o	1	24	24.0	23.05	1.24	0.07	0.850	1.06
	LTE 5	QPSK10M	Top Side	0	20525	w/o	1	24	24.0	23.09	1.23	-0.13	0.800	0.99
	LTE 5	QPSK10M	Top Side	0	20525	w/o	25	0	23.0	22.07	1.24	-0.02	0.656	0.81
	LTE 5	QPSK10M	Top Side	0	20450	w/o	25	25	23.0	21.99	1.26	-0.03	0.696	0.88
	LTE 5	QPSK10M	Top Side	0	20600	w/o	25	12	23.0	22.06	1.24	-0.01	0.661	0.82
	LTE 5	QPSK10M	Top Side	0	20525	w/o	50	0	23.0	21.93	1.28	-0.17	0.629	0.80
	LTE 13	QPSK10M	Rear Face	0	23230	w/o	1	0	24.0	23.92	1.02	-0.04	0.757	0.77
	LTE 13	QPSK10M	Rear Face	0	23230	w/o	25	12	23.0	22.04	1.25	0.08	0.858	1.07
	LTE 13	QPSK10M	Rear Face	0	23230	w/o	25	12	23.0	22.04	1.25	0.02	0.821	1.02
12	LTE 13	QPSK10M	Rear Face	0	23230	w/o	50	0	23.0	22.01	1.26	-0.09	0.871	1.09
	LTE 13	QPSK10M	Right Side	0	23230	w/o	1	0	24.0	23.92	1.02	-0.04	0.051	0.05
	LTE 13	QPSK10M	Right Side	0	23230	w/o	25	12	23.0	22.04	1.25	-0.01	0.066	0.08
	LTE 13	QPSK10M	Top Side	0	23230	w/o	1	0	24.0	23.92	1.02	-0.01	0.658	0.67
	LTE 13	QPSK10M	Top Side	0	23230	w/o	25	12	23.0	22.04	1.25	0.09	0.839	1.05
	LTE 13	QPSK10M	Top Side	0	23230	w/o	50	0	23.0	22.01	1.26	-0.09	0.842	1.06
	LTE 17	QPSK10M	Rear Face	1.7	23780	w/o	1	0	24.0	22.77	1.33	-0.05	0.212	0.28
	LTE 17	QPSK10M	Rear Face	1.7	23790	w/o	25	0	23.0	21.81	1.32	-0.01	0.174	0.23
	LTE 17	QPSK10M	Rear Face	0	23780	w/	1	24	20.5	20.13	1.09	0.02	0.361	0.39
	LTE 17	QPSK10M	Rear Face	0	23800	w/	25	12	20.5	20.07	1.10	-0.01	0.344	0.38
	LTE 17	QPSK10M	Right Side	0	23780	w/o	1	0	24.0	22.77	1.33	-0.14	0.157	0.21
	LTE 17	QPSK10M	Right Side	0	23790	w/o	25	0	23.0	21.81	1.32	-0.05	0.135	0.18
	LTE 17	QPSK10M	Top Side	0	23780	w/o	1	0	24.0	22.77	1.33	-0.04	0.925	1.23
	LTE 17	QPSK10M	Top Side	0	23790	w/o	1	24	24.0	22.75	1.33	0.11	0.925	1.23
13	LTE 17	QPSK10M	Top Side	0	23800	w/o	1	24	24.0	22.70	1.35	-0.08	0.943	1.27
	LTE 17	QPSK10M	Top Side	0	23800	w/o	1	24	24.0	22.70	1.35	0.06	0.928	1.25
	LTE 17	QPSK10M	Top Side	0	23790	w/o	25	0	23.0	21.81	1.32	-0.01	0.757	1.00
	LTE 17	QPSK10M	Top Side	0	23780	w/o	25	12	23.0	21.81	1.32	-0.07	0.743	0.98
	LTE 17	QPSK10M	Top Side	0	23800	w/o	25	0	23.0	21.74	1.34	-0.05	0.739	0.99
	LTE 17	QPSK10M	Top Side	0	23790	w/o	50	0	23.0	21.75	1.33	-0.04	0.715	0.95
	LTE 25	QPSK20M	Rear Face	1.7	26365	w/o	1	0	24.0	23.39	1.15	-0.03	0.354	0.41
	LTE 25	QPSK20M	Rear Face	1.7	26140	w/o	50	25	23.0	22.14	1.22	-0.07	0.269	0.33
	LTE 25	QPSK20M	Rear Face	0	26140	w/	1	50	17.0	16.93	1.02	0.00	0.744	0.76
	LTE 25	QPSK20M	Rear Face	0	26140	w/	50	0	17.0	16.87	1.03	0	0.436	0.45
	LTE 25	QPSK20M	Right Side	0	26365	w/o	1	0	24.0	23.39	1.15	-0.05	0.300	0.35
	LTE 25	QPSK20M	Right Side	0	26140	w/o	50	25	23.0	22.14	1.22	-0.04	0.222	0.27
	LTE 25	QPSK20M	Top Side	2.6	26365	w/o	1	0	24.0	23.39	1.15	-0.17	0.312	0.36
	LTE 25	QPSK20M	Top Side	2.6	26140	w/o	50	25	23.0	22.14	1.22	-0.08	0.244	0.30
14	LTE 25	QPSK20M	Top Side	0	26140	w/	1	50	17.0	16.93	1.02	-0.07	1.02	1.04
	LTE 25	QPSK20M	Top Side	0	26140	w/	1	50	17.0	16.93	1.02	-0.17	0.987	1.00
	LTE 25	QPSK20M	Top Side	0	26365	w/	1	99	17.0	16.85	1.04	0.06	0.840	0.87
	LTE 25	QPSK20M	Top Side	0	26590	w/	1	99	17.0	16.66	1.08	-0.16	0.95	1.03
	LTE 25	QPSK20M	Top Side	0	26140	w/	50	0	17.0	16.87	1.03	-0.18	0.719	0.74
	LTE 25	QPSK20M	Top Side	0	26365	w/	100	0	17.0	16.67	1.08	-0.09	0.608	0.66
	LTE 25	QPSK20M	Bottom Side	0	26365	w/o	1	0	24.0	23.39	1.15	0.12	0.014	0.02
	LTE 25	QPSK20M	Bottom Side	0	26140	w/o	50	25	23.0	22.14	1.22	-0.02	0.013	0.02

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4.7.3 SAR Measurement Variability

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

SAR repeated measurement procedure:

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

Band	Mode	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
GSM850	GPRS10	Rear Face	128	1.29	1.27	1.02	N/A	N/A	N/A	N/A
GSM1900	GPRS10	Top Side	512	1.24	1.19	1.04	N/A	N/A	N/A	N/A
WCDMA II	RMC12.2K	Top Side	9262	0.850	0.830	1.02	N/A	N/A	N/A	N/A
WCDMA V	RMC12.2K	Top Side	4132	0.853	0.847	1.01	N/A	N/A	N/A	N/A
CDMA BC0	RTAP 153.6	Top Side	1013	1.04	1.02	1.02	N/A	N/A	N/A	N/A
CDMA BC10	RTAP 153.6	Top Side	684	1.03	1.01	1.02	N/A	N/A	N/A	N/A
LTE 2	QPSK20M	Top Side	18700	0.854	0.848	1.01	N/A	N/A	N/A	N/A
LTE 5	QPSK10M	Top Side	20450	0.860	0.850	1.01	N/A	N/A	N/A	N/A
LTE 13	QPSK10M	Rear Face	23230	0.858	0.821	1.05	N/A	N/A	N/A	N/A
LTE 17	QPSK10M	Rear Face	23800	0.943	0.928	1.02	N/A	N/A	N/A	N/A
LTE 25	QPSK20M	Top Side	26140	1.02	0.987	1.03	N/A	N/A	N/A	N/A

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4.7.4 Simultaneous Multi-band Transmission Evaluation

<Estimated SAR Calculation>

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

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

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

Mode / Band	Frequency (GHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (mm)	Estimated SAR (W/kg)
GSM850	0.835	27.0	Body	0	0.40
GSM1900	1.909	24.0	Body	0	0.40
WCDMA II	1.907	24.0	Body	0	0.40
WCDMA IV	1.753	24.0	Body	0	0.40
WCDMA V	0.846	24.0	Body	0	0.40
CDMA BC0	0.848	24.5	Body	0	0.40
CDMA BC1	1.909	24.5	Body	0	0.40
CDMA BC10	0.823	24.5	Body	0	0.40
LTE 2	1.908	24.0	Body	0	0.40
LTE 4	1.752	24.0	Body	0	0.40
LTE 5	0.847	24.0	Body	0	0.40
LTE 13	0.785	24.0	Body	0	0.40
LTE 17	0.713	24.0	Body	0	0.40
LTE 25	1.913	24.0	Body	0	0.40
WLAN (DTS)	2.462	15.0	Body	5	0.40
WLAN (NII)	5.7	13.5	Body	5	0.40
BT (DSS)	2.48	11.5	Body	5	0.40

Note:

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

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<SAR Summation Analysis>

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

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
1	GSM850 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.37	0.50	1.18	3.05	Analyzed as below
			Left Side	0.04	0.25	0.25	0.54	Σ SAR < 1.6, Not required
			Right Side	0.10	0.40	0.40	0.90	Σ SAR < 1.6, Not required
			Top Side	1.25	0.03	0.93	2.21	Analyzed as below
			Bottom Side	0.02	0.40	0.40	0.82	Σ SAR < 1.6, Not required
2	GSM850 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.37	0.98	0.69	3.04	Analyzed as below
			Left Side	0.04	0.61	0.40	1.05	Σ SAR < 1.6, Not required
			Right Side	0.10	0.40	0.40	0.90	Σ SAR < 1.6, Not required
			Top Side	1.25	0.14	1.38	2.77	Analyzed as below
			Bottom Side	0.02	0.40	0.40	0.82	Σ SAR < 1.6, Not required
3	GSM850 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.37	0.50	0.34	2.21	Analyzed as below
			Left Side	0.04	0.25	0.09	0.38	Σ SAR < 1.6, Not required
			Right Side	0.10	0.40	0.40	0.90	Σ SAR < 1.6, Not required
			Top Side	1.25	0.03	0.26	1.54	Σ SAR < 1.6, Not required
			Bottom Side	0.02	0.40	0.40	0.82	Σ SAR < 1.6, Not required
4	GSM850 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.37	0.98	0.34	2.69	Analyzed as below
			Left Side	0.04	0.61	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.10	0.40	0.40	0.90	Σ SAR < 1.6, Not required
			Top Side	1.25	0.14	0.26	1.65	Analyzed as below
			Bottom Side	0.02	0.40	0.40	0.82	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
5	GSM1900 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.17	0.50	1.18	2.85	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.35	0.40	0.40	1.15	Σ SAR < 1.6, Not required
			Top Side	1.37	0.03	0.93	2.33	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
6	GSM1900 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.17	0.98	0.69	2.84	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.35	0.40	0.40	1.15	Σ SAR < 1.6, Not required
			Top Side	1.37	0.14	1.38	2.89	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
7	GSM1900 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.17	0.50	0.34	2.01	Analyzed as below
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.35	0.40	0.40	1.15	Σ SAR < 1.6, Not required
			Top Side	1.37	0.03	0.26	1.66	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
8	GSM1900 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.17	0.98	0.34	2.49	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.35	0.40	0.40	1.15	Σ SAR < 1.6, Not required
			Top Side	1.37	0.14	0.26	1.77	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
9	WCDMA II + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.56	0.50	1.18	2.24	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.34	0.40	0.40	1.14	Σ SAR < 1.6, Not required
			Top Side	0.90	0.03	0.93	1.86	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
10	WCDMA II + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.56	0.98	0.69	2.23	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.34	0.40	0.40	1.14	Σ SAR < 1.6, Not required
			Top Side	0.90	0.14	1.38	2.42	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
11	WCDMA II + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.56	0.50	0.34	1.40	Σ SAR < 1.6, Not required
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.34	0.40	0.40	1.14	Σ SAR < 1.6, Not required
			Top Side	0.90	0.03	0.26	1.19	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
12	WCDMA II + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.56	0.98	0.34	1.88	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.34	0.40	0.40	1.14	Σ SAR < 1.6, Not required
			Top Side	0.90	0.14	0.26	1.30	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
13	WCDMA IV + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.74	0.50	1.18	2.42	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.1	0.40	0.40	0.90	Σ SAR < 1.6, Not required
			Top Side	0.69	0.03	0.93	1.65	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
14	WCDMA IV + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.74	0.98	0.69	2.41	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.10	0.40	0.40	0.90	Σ SAR < 1.6, Not required
			Top Side	0.69	0.14	1.38	2.21	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
15	WCDMA IV + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.74	0.50	0.34	1.58	Σ SAR < 1.6, Not required
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.1	0.40	0.40	0.90	Σ SAR < 1.6, Not required
			Top Side	0.69	0.03	0.26	0.98	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
16	WCDMA IV + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.74	0.98	0.34	2.06	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.1	0.40	0.40	0.90	Σ SAR < 1.6, Not required
			Top Side	0.69	0.14	0.26	1.09	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
17	WCDMA V + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.86	0.50	1.18	2.54	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.06	0.40	0.40	0.86	Σ SAR < 1.6, Not required
			Top Side	1.22	0.03	0.93	2.18	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
18	WCDMA V + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.86	0.98	0.69	2.53	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.06	0.40	0.40	0.86	Σ SAR < 1.6, Not required
			Top Side	1.22	0.14	1.38	2.74	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
19	WCDMA V + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.86	0.50	0.34	1.70	Analyzed as below
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.06	0.40	0.40	0.86	Σ SAR < 1.6, Not required
			Top Side	1.22	0.03	0.26	1.51	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
20	WCDMA V + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.86	0.98	0.34	2.18	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.06	0.40	0.40	0.86	Σ SAR < 1.6, Not required
			Top Side	1.22	0.14	0.26	1.62	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
21	CDMA BC0 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.16	0.50	1.18	2.84	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.30	0.03	0.93	2.26	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
22	CDMA BC0 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.16	0.98	0.69	2.83	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.30	0.14	1.38	2.82	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
23	CDMA BC0 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.16	0.50	0.34	2.00	Analyzed as below
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.30	0.03	0.26	1.59	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
24	CDMA BC0 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.16	0.98	0.34	2.48	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.30	0.14	0.26	1.70	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
25	CDMA BC1 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.43	0.50	1.18	2.11	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.31	0.40	0.40	1.11	Σ SAR < 1.6, Not required
			Top Side	0.53	0.03	0.93	1.49	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
26	CDMA BC1 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.43	0.98	0.69	2.10	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.31	0.40	0.40	1.11	Σ SAR < 1.6, Not required
			Top Side	0.60	0.14	1.38	2.05	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
27	CDMA BC1 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.43	0.50	0.34	1.27	Σ SAR < 1.6, Not required
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.31	0.40	0.40	1.11	Σ SAR < 1.6, Not required
			Top Side	0.53	0.03	0.26	0.82	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
28	CDMA BC1 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.43	0.98	0.34	1.75	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.31	0.40	0.40	1.11	Σ SAR < 1.6, Not required
			Top Side	0.53	0.14	0.26	0.93	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
29	CDMA BC10 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.14	0.50	1.18	2.82	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.31	0.03	0.93	2.27	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
30	CDMA BC10 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.14	0.98	0.69	2.81	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.31	0.14	1.38	2.83	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
31	CDMA BC10 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.14	0.50	0.34	1.98	Analyzed as below
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.31	0.03	0.26	1.60	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
32	CDMA BC10 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.14	0.98	0.34	2.46	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.31	0.14	0.26	1.71	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
33	LTE 2 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.65	0.50	1.18	2.33	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.25	0.40	0.40	1.05	Σ SAR < 1.6, Not required
			Top Side	0.91	0.03	0.93	1.87	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
34	LTE 2 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.65	0.98	0.69	2.32	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.25	0.40	0.40	1.05	Σ SAR < 1.6, Not required
			Top Side	0.91	0.14	1.38	2.43	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
35	LTE 2 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.65	0.50	0.34	1.49	Σ SAR < 1.6, Not required
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.25	0.40	0.40	1.05	Σ SAR < 1.6, Not required
			Top Side	0.91	0.03	0.26	1.20	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
36	LTE 2 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.65	0.98	0.34	1.97	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.25	0.40	0.40	1.05	Σ SAR < 1.6, Not required
			Top Side	0.91	0.14	0.26	1.31	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
37	LTE 4 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.57	0.50	1.18	2.25	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.22	0.40	0.40	1.02	Σ SAR < 1.6, Not required
			Top Side	0.29	0.03	0.93	1.25	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
38	LTE 4 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.57	0.98	0.69	2.24	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.22	0.40	0.40	1.02	Σ SAR < 1.6, Not required
			Top Side	0.29	0.14	1.38	1.81	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
39	LTE 4 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.57	0.50	0.34	1.41	Σ SAR < 1.6, Not required
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.22	0.40	0.40	1.02	Σ SAR < 1.6, Not required
			Top Side	0.29	0.03	0.26	0.58	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
40	LTE 4 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.57	0.98	0.34	1.89	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.22	0.40	0.40	1.02	Σ SAR < 1.6, Not required
			Top Side	0.29	0.14	0.26	0.69	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
41	LTE 5 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.88	0.50	1.18	2.56	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.05	0.40	0.40	0.85	Σ SAR < 1.6, Not required
			Top Side	1.07	0.03	0.93	2.03	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
42	LTE 5 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.88	0.98	0.69	2.55	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.05	0.40	0.40	0.85	Σ SAR < 1.6, Not required
			Top Side	1.07	0.14	1.38	2.59	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
43	LTE 5 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.88	0.50	0.34	1.72	Analyzed as below
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.05	0.40	0.40	0.85	Σ SAR < 1.6, Not required
			Top Side	1.07	0.03	0.26	1.36	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
44	LTE 5 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.88	0.98	0.34	2.20	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.05	0.40	0.40	0.85	Σ SAR < 1.6, Not required
			Top Side	1.07	0.14	0.26	1.47	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
45	LTE 13 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.09	0.50	1.18	2.77	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.06	0.03	0.93	2.02	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
46	LTE 13 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.09	0.98	0.69	2.76	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.06	0.14	1.38	2.58	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
47	LTE 13 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.09	0.50	0.34	1.93	Analyzed as below
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.06	0.03	0.26	1.35	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
48	LTE 13 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.09	0.98	0.34	2.41	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.40	0.88	Σ SAR < 1.6, Not required
			Top Side	1.06	0.14	0.26	1.46	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
49	LTE 17 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.39	0.50	1.18	2.07	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.21	0.40	0.40	1.01	Σ SAR < 1.6, Not required
			Top Side	1.27	0.03	0.93	2.23	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
50	LTE 17 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.39	0.98	0.69	2.06	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.21	0.40	0.40	1.01	Σ SAR < 1.6, Not required
			Top Side	1.27	0.14	1.38	2.79	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
51	LTE 17 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.39	0.50	0.34	1.23	Σ SAR < 1.6, Not required
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.21	0.40	0.40	1.01	Σ SAR < 1.6, Not required
			Top Side	1.27	0.03	0.26	1.56	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
52	LTE 17 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.39	0.98	0.34	1.71	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.21	0.40	0.40	1.01	Σ SAR < 1.6, Not required
			Top Side	1.27	0.14	0.26	1.67	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
53	LTE 25 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.76	0.50	1.18	2.44	Analyzed as below
			Left Side	0.40	0.25	0.25	0.90	Σ SAR < 1.6, Not required
			Right Side	0.35	0.40	0.40	1.15	Σ SAR < 1.6, Not required
			Top Side	1.04	0.03	0.93	2.00	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
54	LTE 25 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.76	0.98	0.69	2.43	Analyzed as below
			Left Side	0.40	0.61	0.40	1.41	Σ SAR < 1.6, Not required
			Right Side	0.35	0.40	0.40	1.15	Σ SAR < 1.6, Not required
			Top Side	1.04	0.14	1.38	2.56	Analyzed as below
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
55	LTE 25 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.76	0.50	0.34	1.60	Analyzed as below
			Left Side	0.40	0.25	0.09	0.74	Σ SAR < 1.6, Not required
			Right Side	0.35	0.40	0.40	1.15	Σ SAR < 1.6, Not required
			Top Side	1.04	0.03	0.26	1.33	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
56	LTE 25 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.76	0.98	0.34	2.08	Analyzed as below
			Left Side	0.40	0.61	0.09	1.10	Σ SAR < 1.6, Not required
			Right Side	0.35	0.40	0.40	1.15	Σ SAR < 1.6, Not required
			Top Side	1.04	0.14	0.26	1.44	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required

FCC SAR Test Report

<SAR to Peak Location Separation Ratio Analysis>

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

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

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

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

The SPLSR is determined by the following formula.

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

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

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

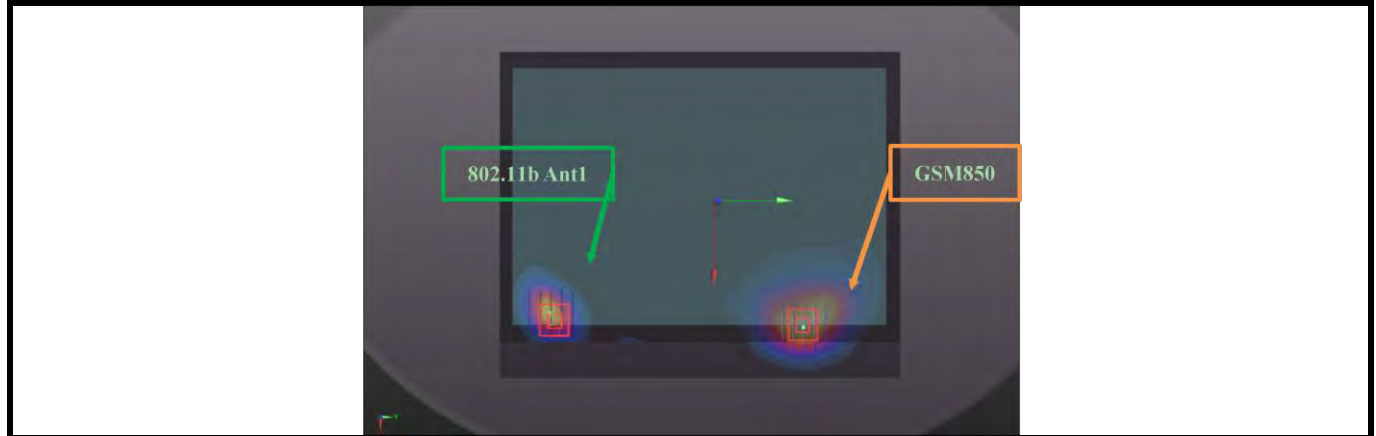
GSM850

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Rear Face	1.37	88.4	77.5	-2.9	219.4	0.01	SPLSR < 0.04, Not required
802.11b_ch11 Ant0			0.50	24.3	-132.3	1.51			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Rear Face	1.37	88.4	77.5	-2.9	185.3	0.02	SPLSR < 0.04, Not required
802.11b_ch11 Ant1			1.18	86.4	-107.7	2.55			

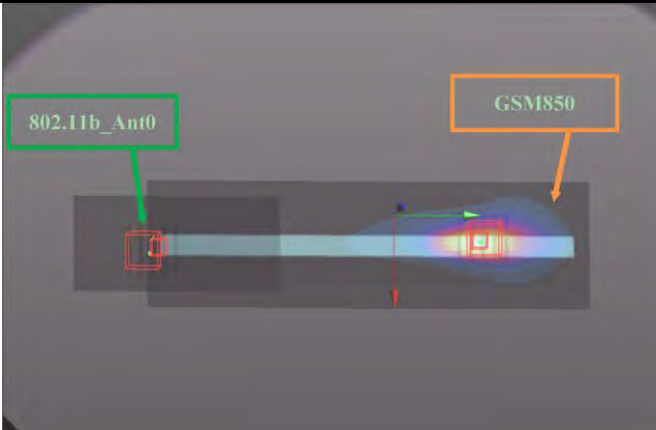


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b_ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b_ch11 Ant1			1.18	86.4	-107.7	2.55			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Top Side	1.25	-2	76	-0.2	217.3	0.01	SPLSR < 0.04, Not required
802.11b_Ch11 Ant0			0.03	22	-140	2.4			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Top Side	1.25	-2	76	-0.2	198.6	0.02	SPLSR < 0.04, Not required
802.11b_Ch11 Ant1			0.93	3.2	-122.5	1.1			

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

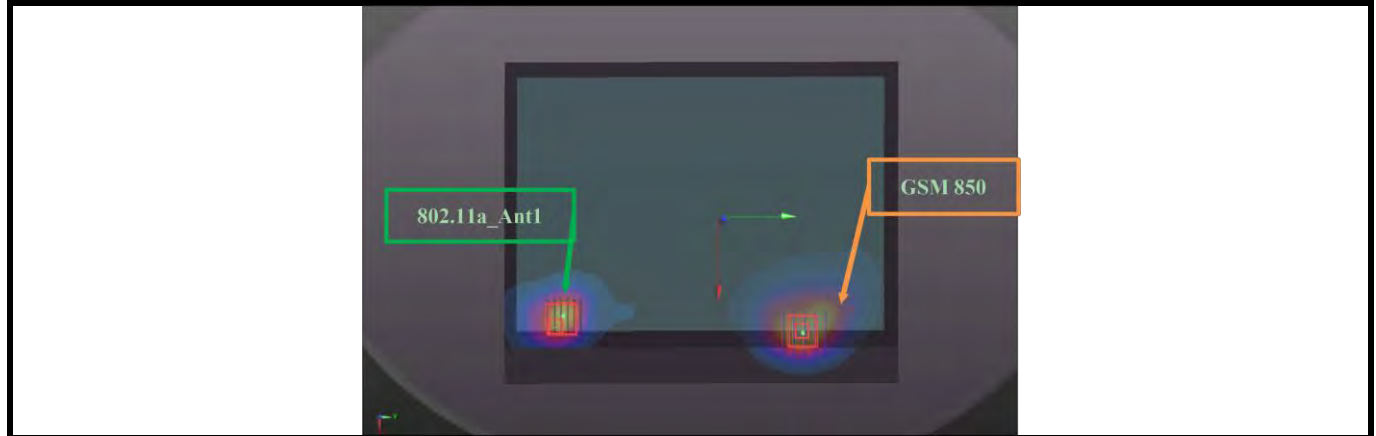


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Rear Face	1.37	88.4	77.5	-2.9	219.0	0.02	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Rear Face	1.37	88.4	77.5	-2.9	188.1	0.02	SPLSR < 0.04, Not required
802.11a_Ch116 Ant1			0.69	86	-110.5	2.68			

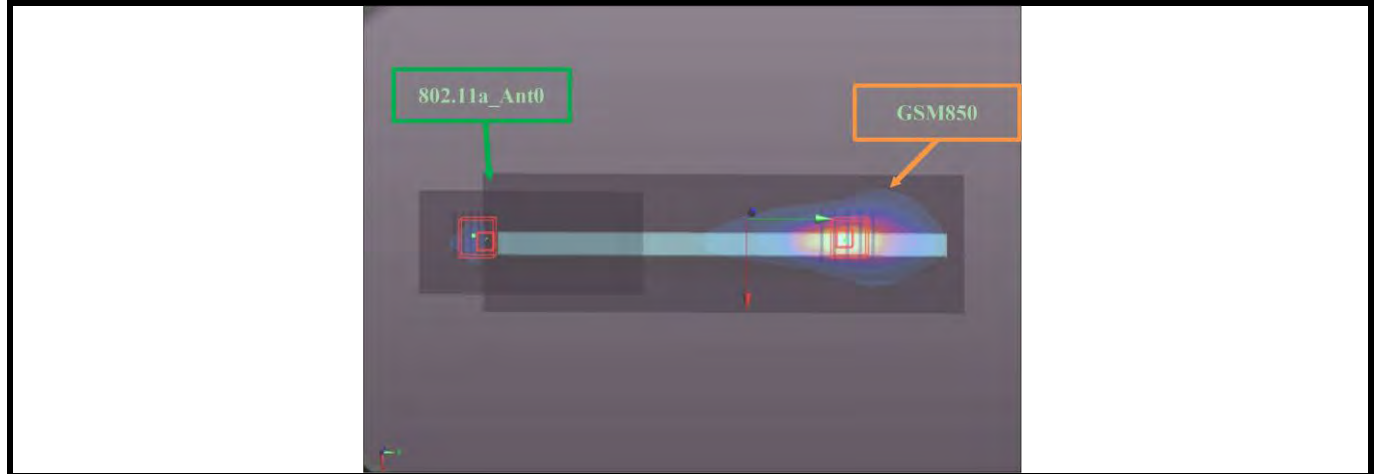


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a_Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a_Ch116 Ant1			0.69	86	-110.5	2.68			

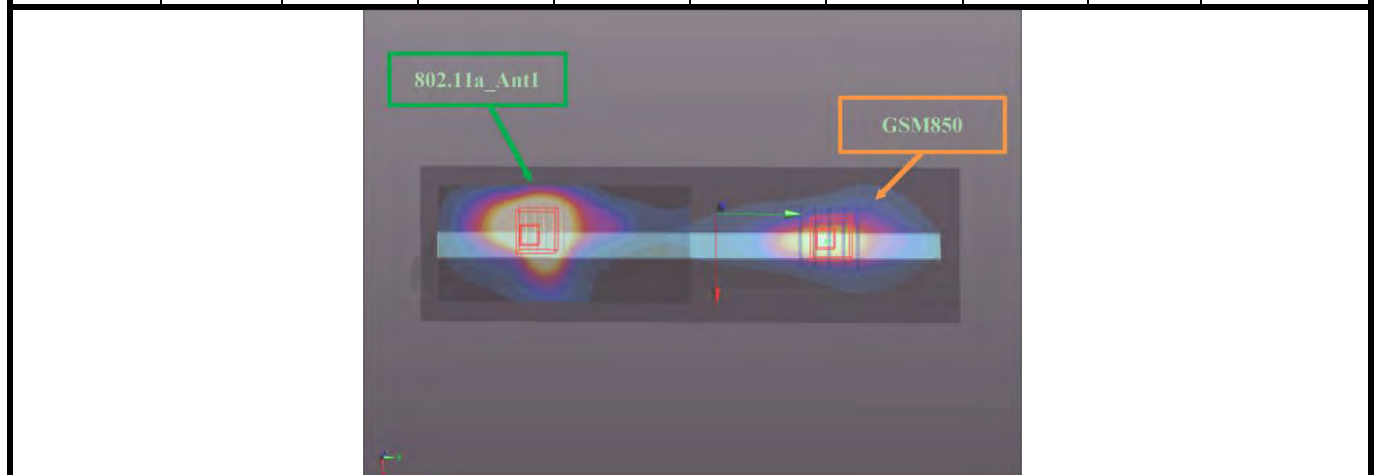


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Top side	1.25	-2	76	-0.2	223.5	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

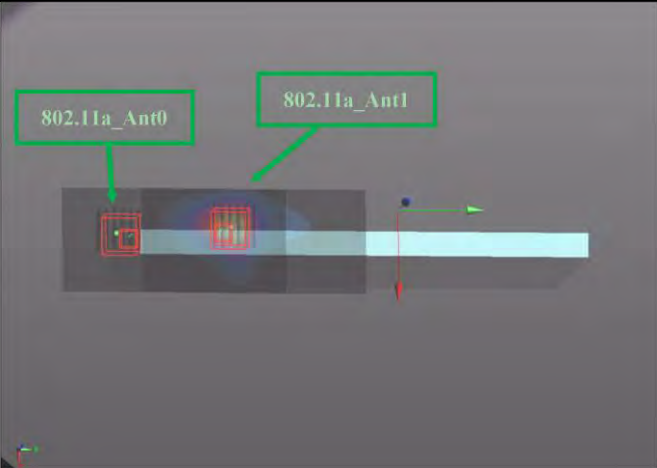


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Top side	1.25	-2	76	-0.2	166.5	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

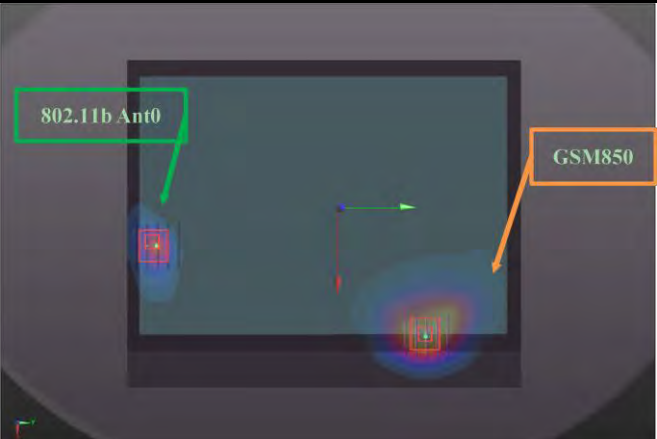


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

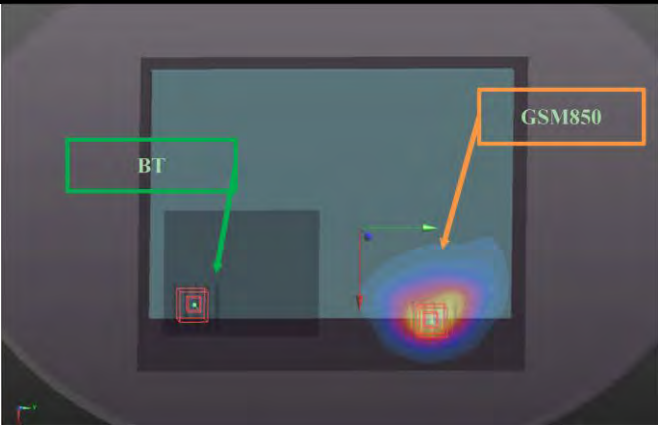


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850 _GPRS10 _Ch128	Body	Rear Face	1.37	88.4	77.5	-2.9	219.4	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant0			0.50	24.3	-132.3	1.51			

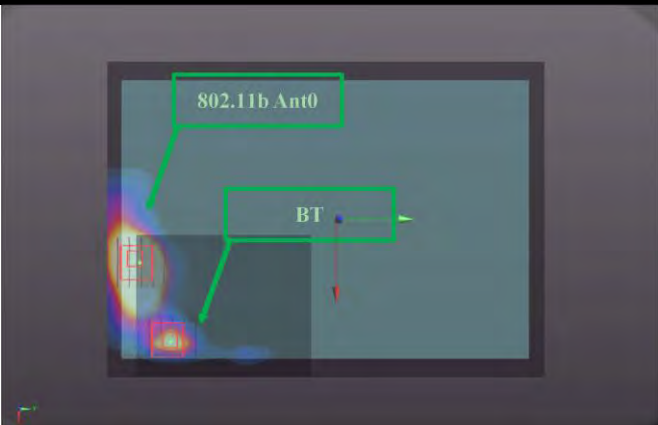


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Rear Face	1.37	88.4	77.5	-2.9	185.6	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

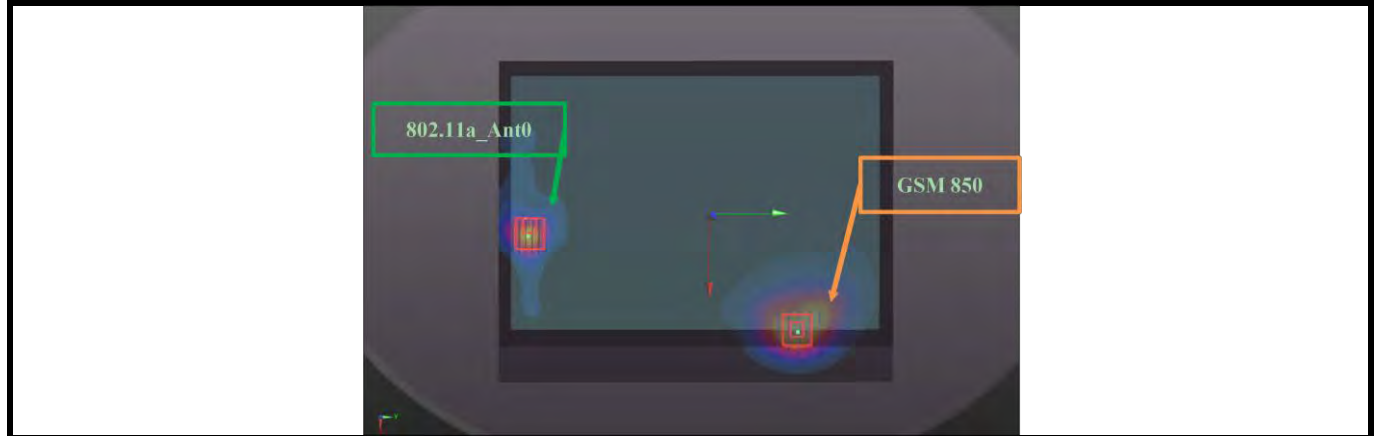


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	58.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

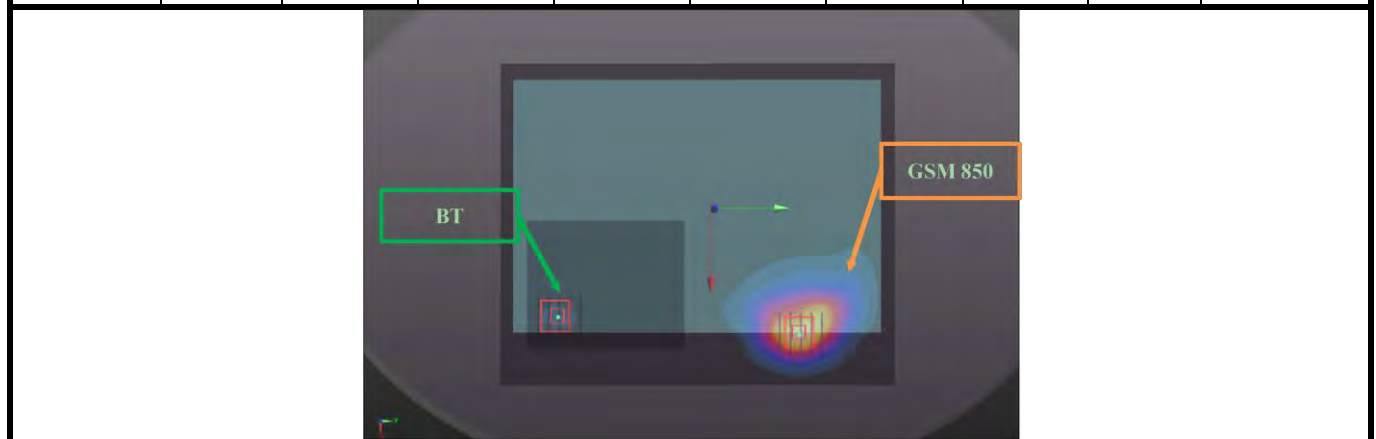


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Rear Face	1.37	88.4	77.5	-2.9	219.0	0.02	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Rear Face	1.37	88.4	77.5	-2.9	185.6	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

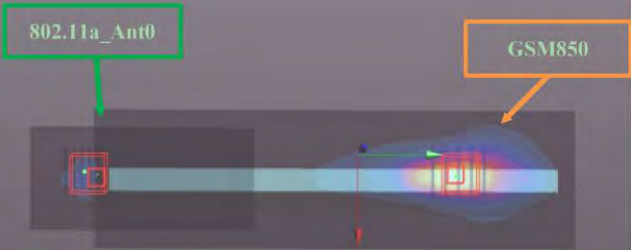


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

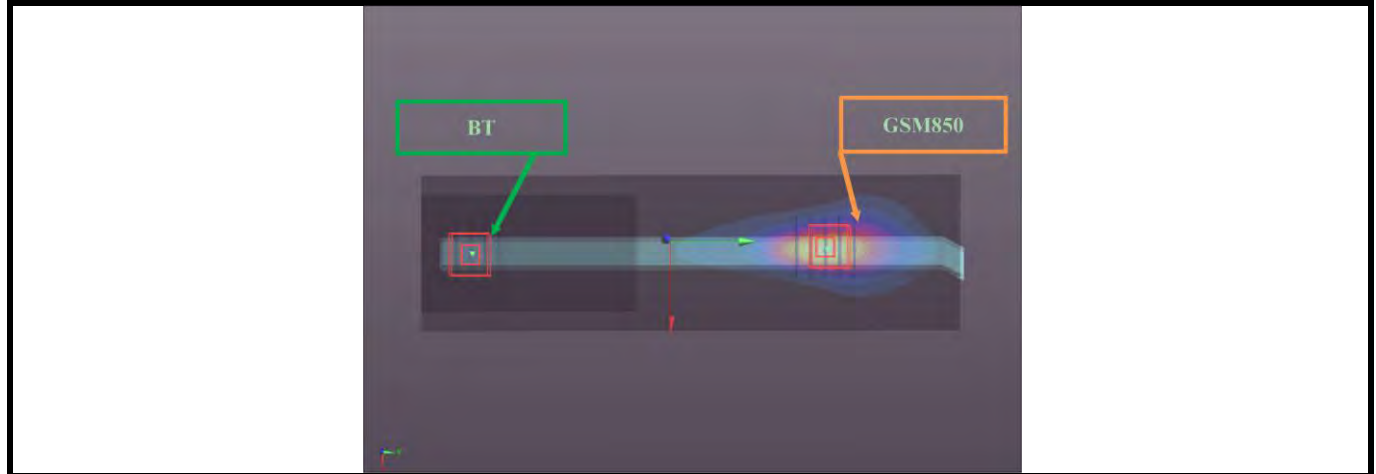


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850_GPRS10_Ch128	Body	Top side	1.25	-2	76	-0.2	223.5	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

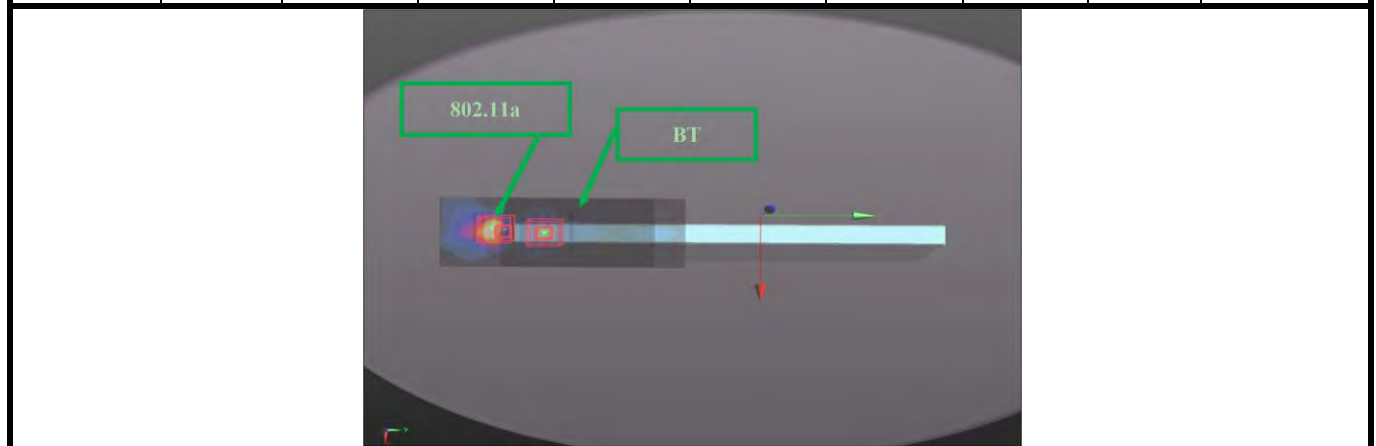


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850 _GPRS10 _Ch128	Body	Top side	1.25	-2	76	-0.2	199.1	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			



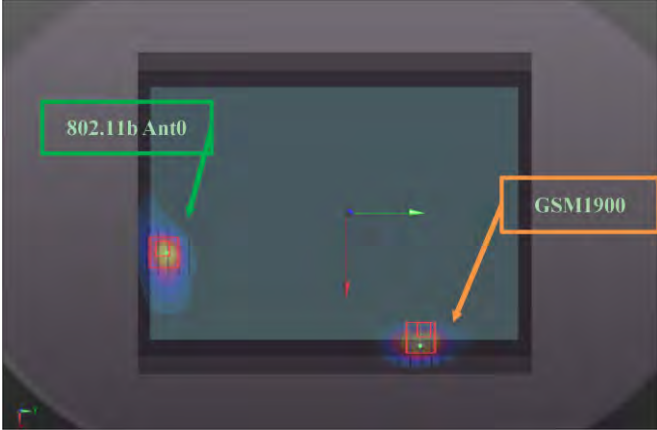
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	25.2	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			



FCC SAR Test Report

GSM1900

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch661	Body	Rear Face	1.17	79.7	71.4	2.47	211.1	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant0			0.50	24.3	-132.3	1.51			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch661	Body	Rear Face	1.17	79.7	71.4	2.47	179.2	0.02	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

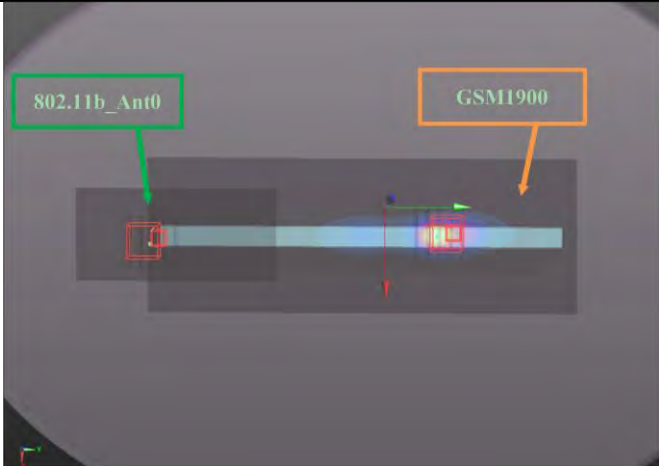


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

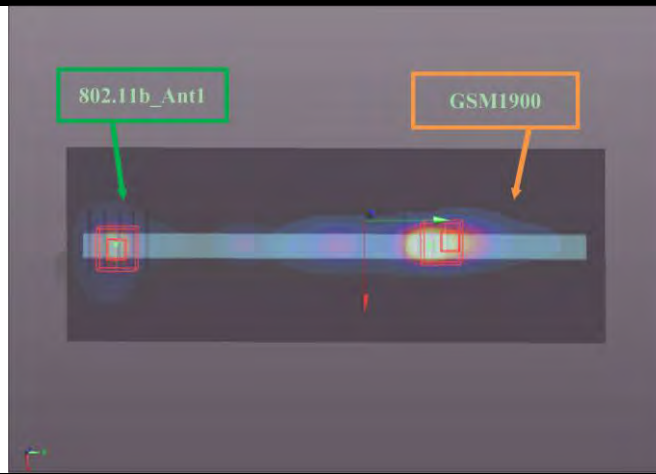


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900 _GPRS10 _Ch512	Body	Top Side	1.37	-1.6	63.7	-3.66	205.2	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.03	22	-140	2.4			

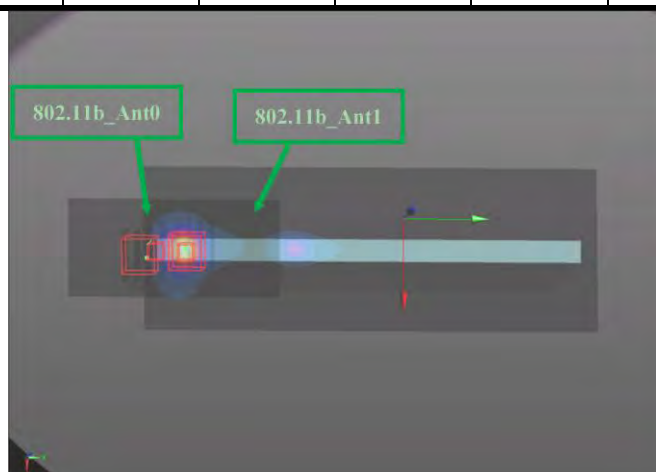


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch512	Body	Top Side	1.37	-1.6	63.7	-3.66	186.3	0.02	SPLSR < 0.04, Not required
802.11b_Ch11 Ant1			0.93	3.2	-122.5	1.1			

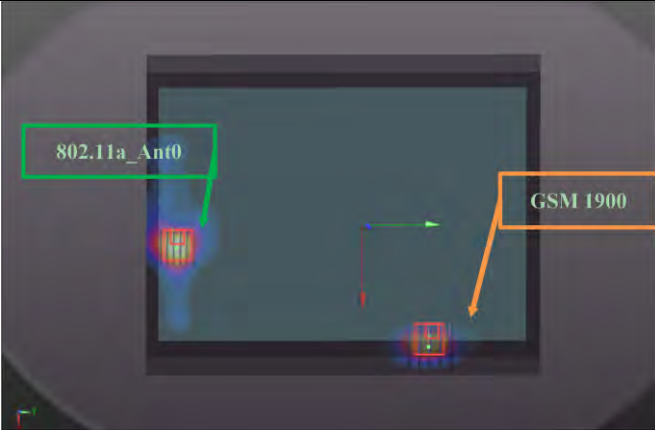


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b_Ch11 Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b_Ch11 Ant1			0.93	3.2	-122.5	1.1			



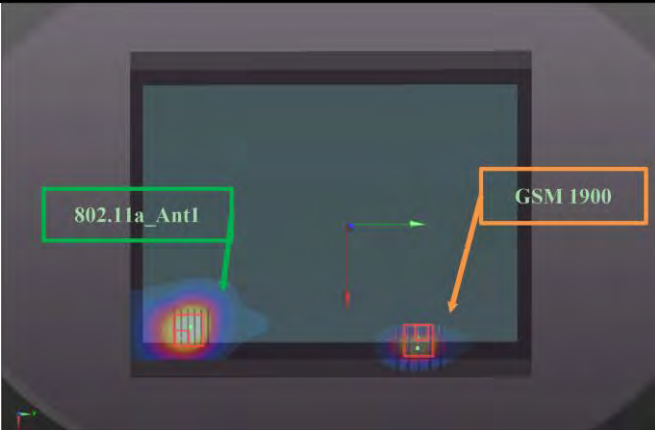
FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch661	Body	Rear Face	1.17	79.7	71.4	2.47	210.3	0.01	SPLSR < 0.04, Not required
802.11a_Ch116 Ant0			0.98	13	-128	2.03			



The image shows a SAR field distribution plot for Ant0. It features a central rectangular area with a color-coded field intensity, ranging from blue (low) to red (high). A green box labeled '802.11a_Ant0' points to a high-intensity region on the left side of the plot. An orange box labeled 'GSM 1900' points to a high-intensity region on the right side of the plot. A coordinate system with x, y, and z axes is visible in the center of the plot.

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch661	Body	Rear Face	1.17	79.7	71.4	2.47	182.0	0.01	SPLSR < 0.04, Not required
802.11a_Ch116 Ant1			0.69	86	-110.5	2.68			



The image shows a SAR field distribution plot for Ant1. It features a central rectangular area with a color-coded field intensity, ranging from blue (low) to red (high). A green box labeled '802.11a_Ant1' points to a high-intensity region on the left side of the plot. An orange box labeled 'GSM 1900' points to a high-intensity region on the right side of the plot. A coordinate system with x, y, and z axes is visible in the center of the plot.

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

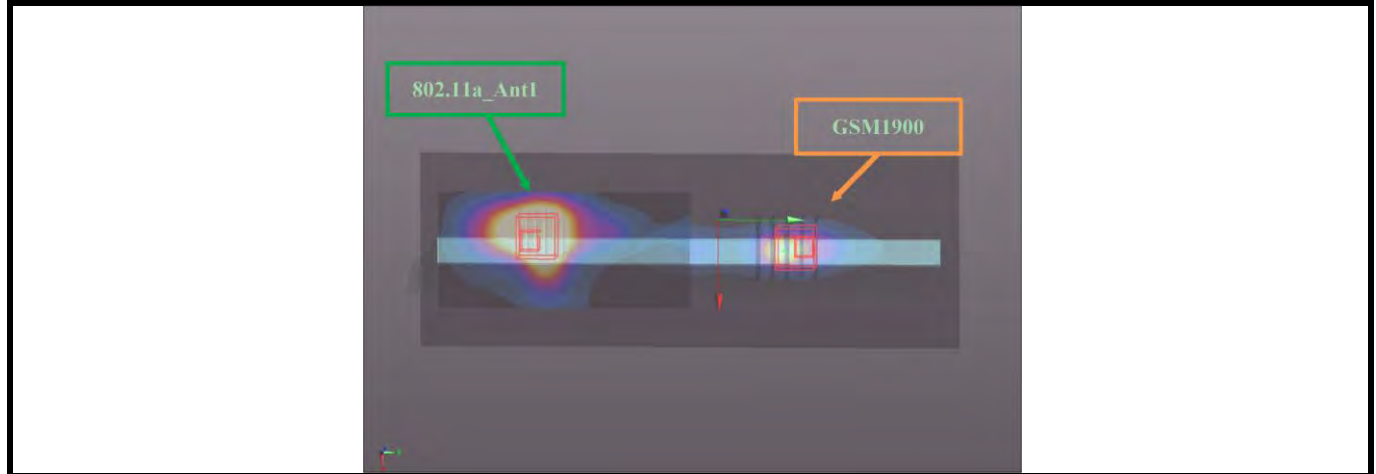


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900 _GPRS10 _Ch512	Body	Top Side	1.37	-1.6	63.7	-3.66	211.3	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

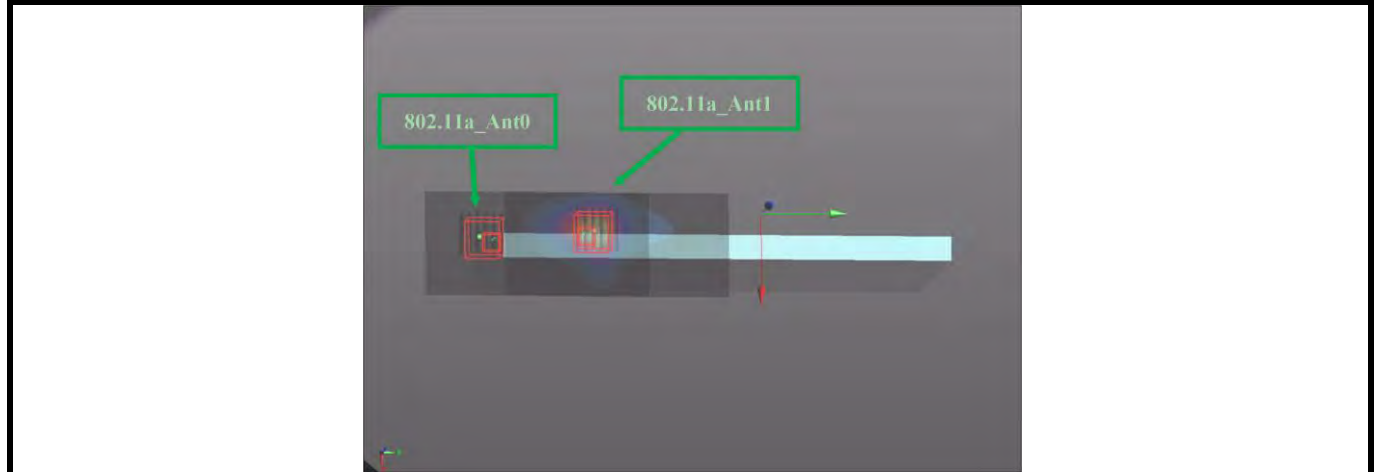


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch512	Body	Top Side	1.37	-1.6	63.7	-3.66	154.4	0.03	SPLSR < 0.04, Not required
802.11a_Ch104 Ant1			1.38	-4.5	-90.5	2.9			

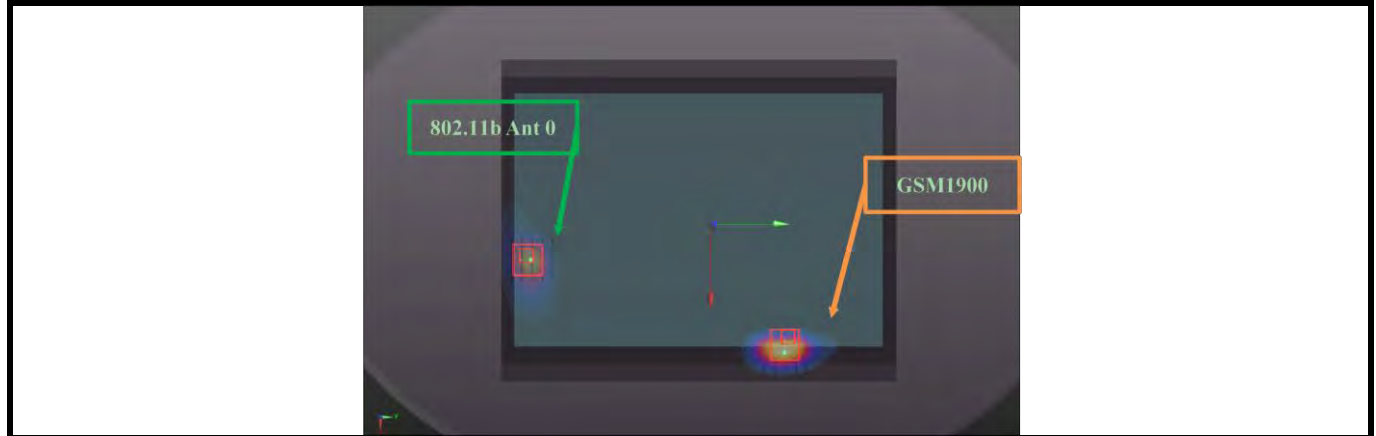


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a_Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a_Ch104 Ant1			1.38	-4.5	-90.5	2.9			

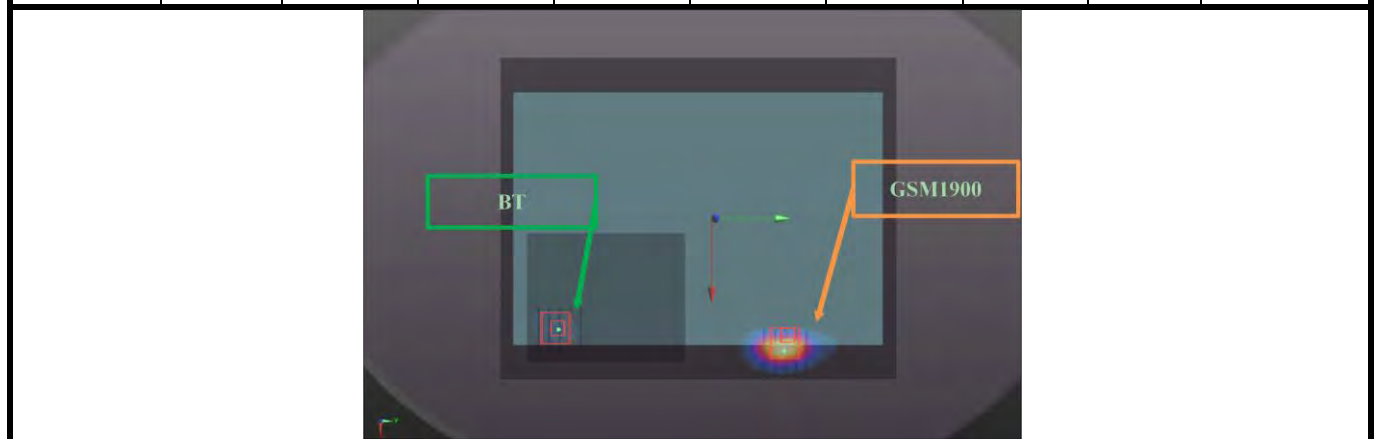


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch661	Body	Rear Face	1.17	79.7	71.4	2.47	211.1	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant0			0.50	24.3	-132.3	1.51			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch661	Body	Rear Face	1.17	79.7	71.4	2.47	179.1	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

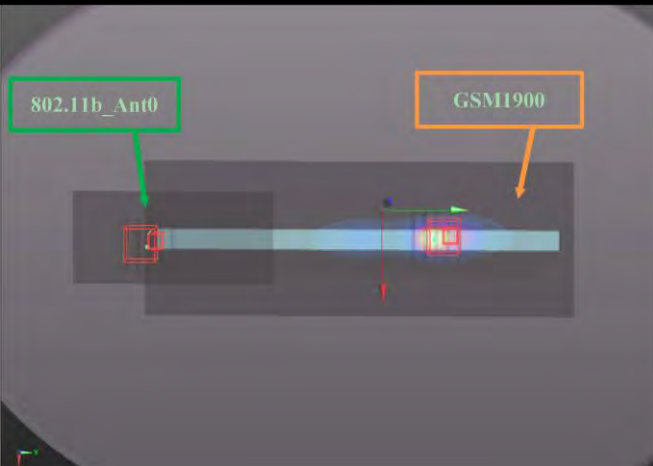


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	58.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch512	Body	Top Side	1.37	-1.6	63.7	-3.66	205.2	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.03	22	-140	2.4			

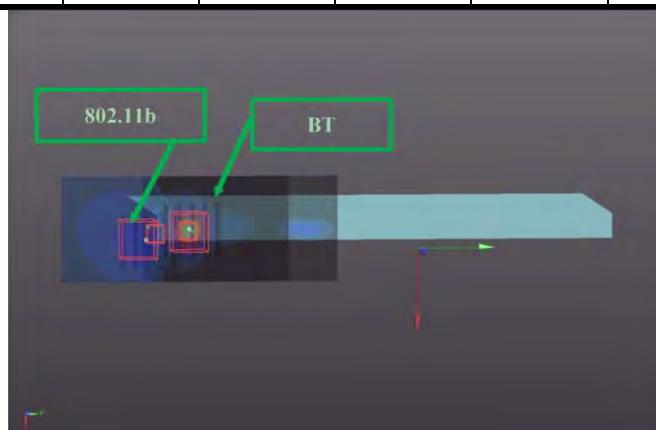


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900 _GPRS10 _Ch512	Body	Top Side	1.37	-1.6	63.7	-3.66	186.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			

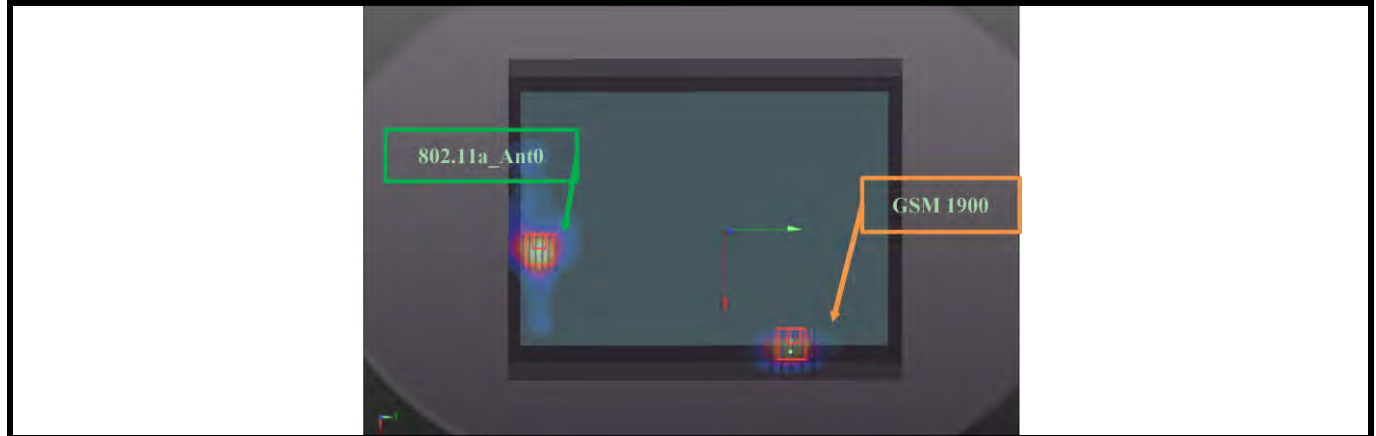


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Top Side	0.03	22	-140	2.4	28.2	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			

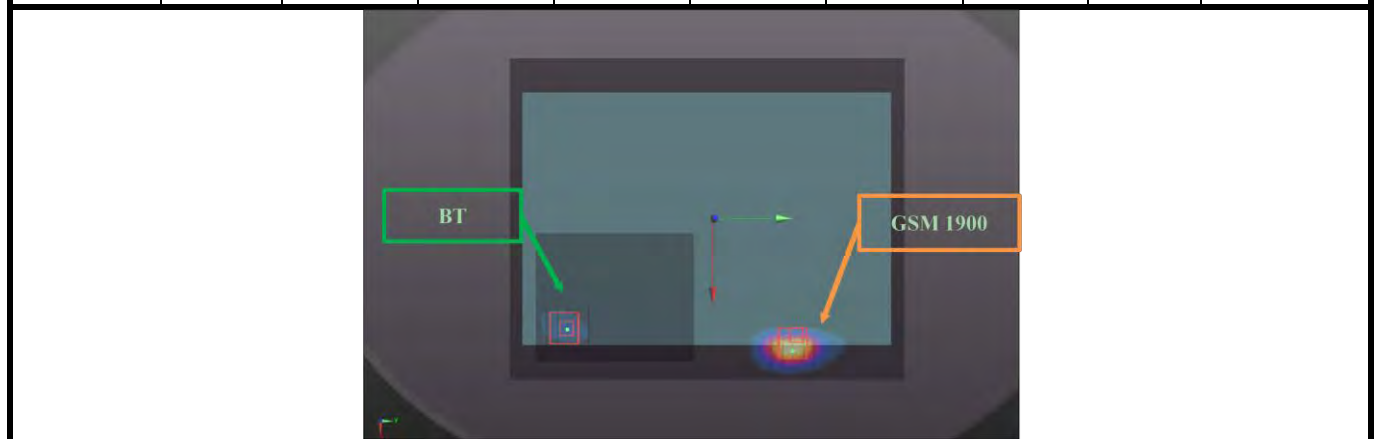


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch661	Body	Rear Face	1.17	79.7	71.4	2.47	210.3	0.01	SPLSR < 0.04, Not required
802.11a_Ch116 Ant0			0.98	13	-128	2.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch661	Body	Rear Face	1.17	79.7	71.4	2.47	179.1	0.01	SPLSR < 0.04, Not required
Bluetooth_Ch39			0.34	77.5	-107.6	6.22			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

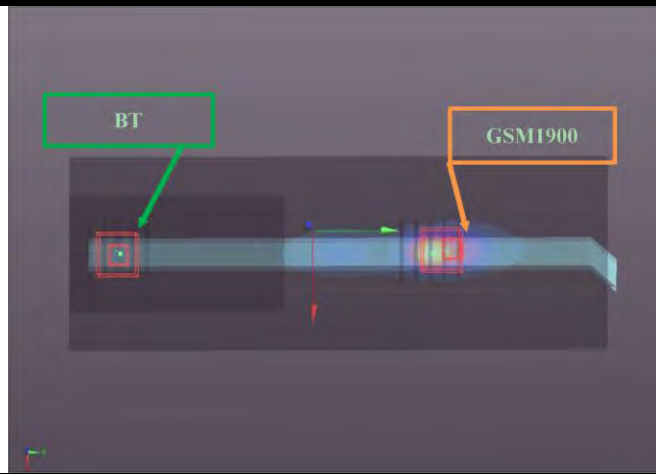


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900_GPRS10_Ch512	Body	Top Side	1.37	-1.6	63.7	-3.66	211.3	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

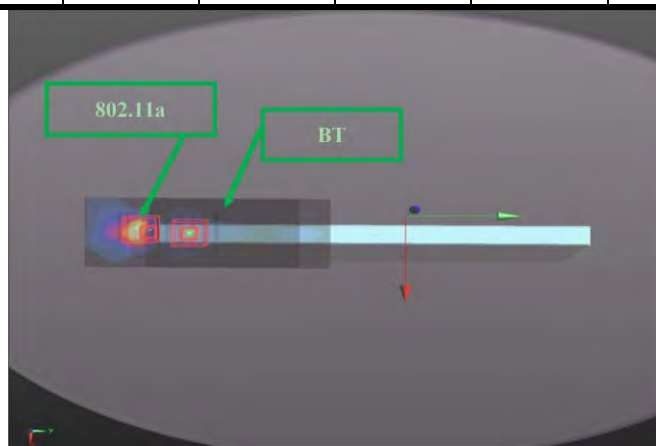


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900 _GPRS10 _Ch512	Body	Top Side	1.37	-1.6	63.7	-3.66	186.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			



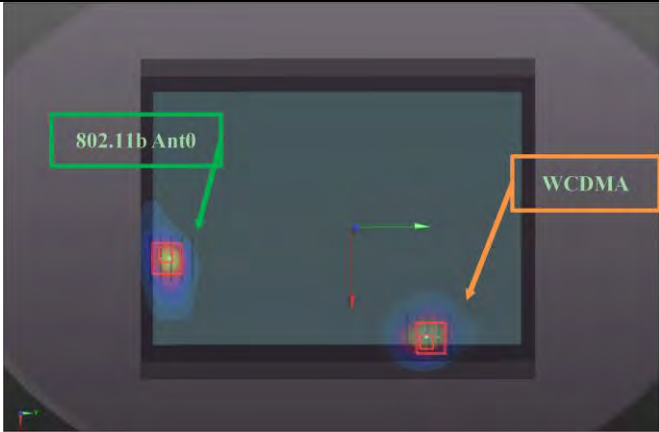
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	25.2	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			



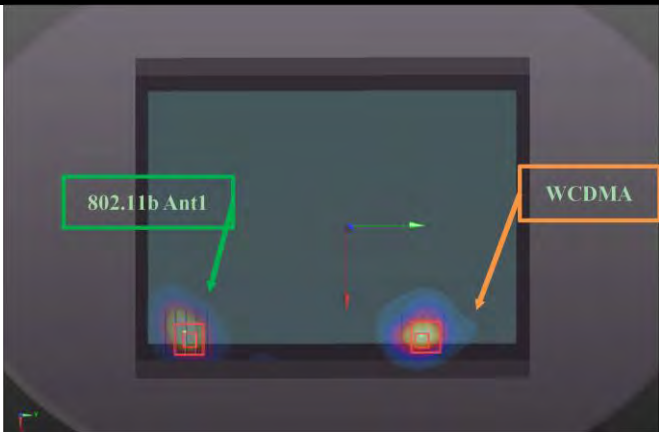
FCC SAR Test Report

WCDMA II

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9262	Body	Rear Face	0.56	77.7	77.1	2.04	216.1	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant0			0.50	24.3	-132.3	1.51			

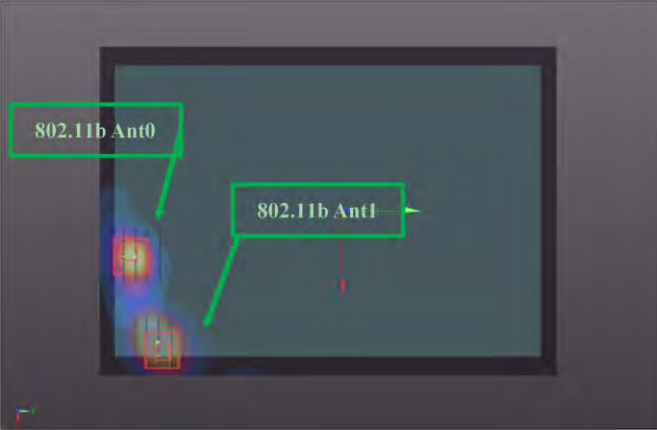


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9262	Body	Rear Face	0.56	77.7	77.1	2.04	185.0	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

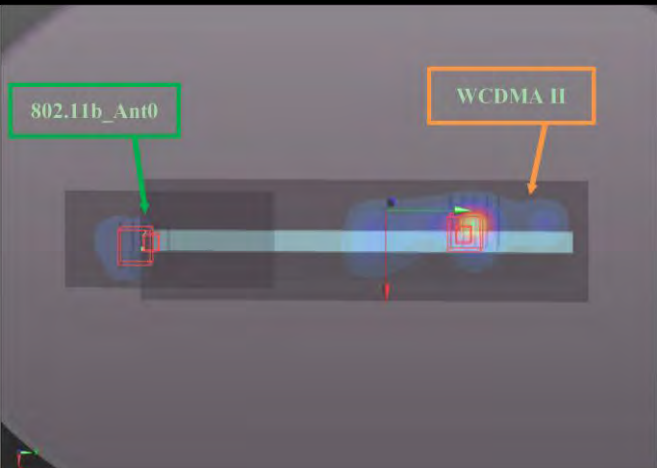


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

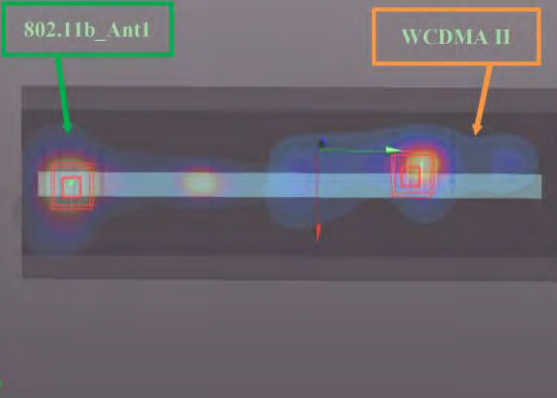


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9400	Body	Top Side	0.90	-3.6	66.1	-3.63	207.8	0.00	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.03	22	-140	2.4			

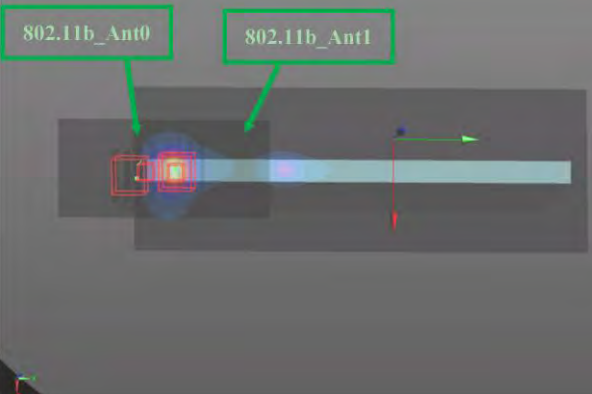


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9400	Body	Top Side	0.90	-3.6	66.1	-3.63	188.8	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

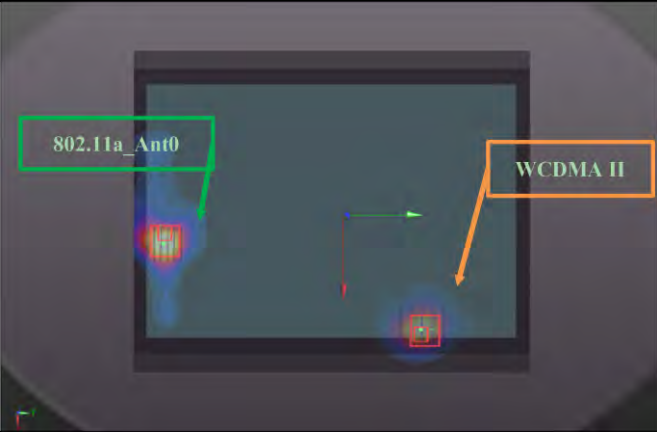


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

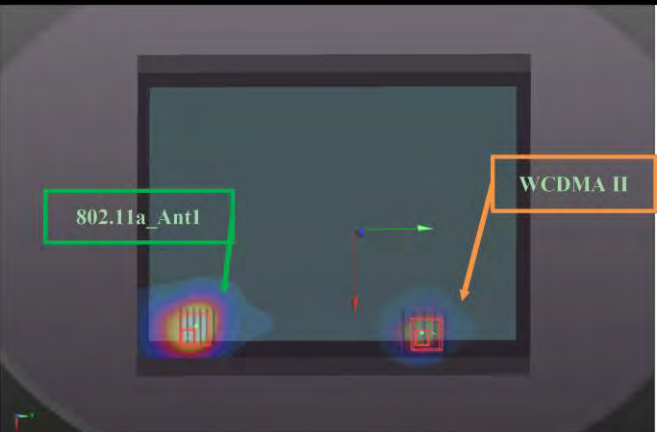


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9262	Body	Rear Face	0.56	77.7	77.1	2.04	215.1	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9262	Body	Rear Face	0.56	77.7	77.1	2.04	187.8	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

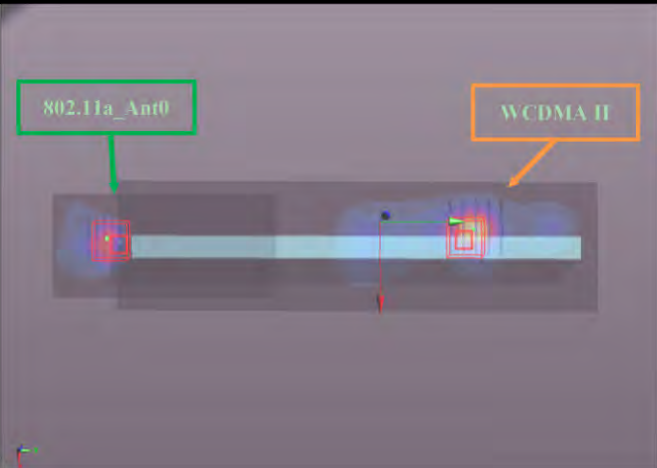


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

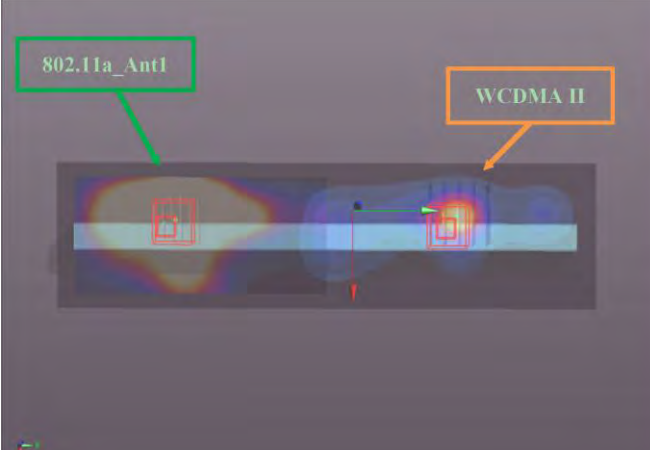


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9400	Body	Top side	0.90	-3.6	66.1	-3.63	213.7	0.00	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

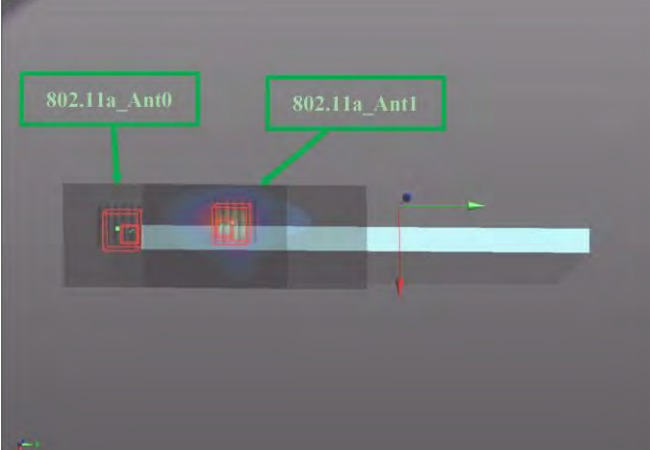


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9400	Body	Top side	0.90	-3.6	66.1	-3.63	156.7	0.02	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

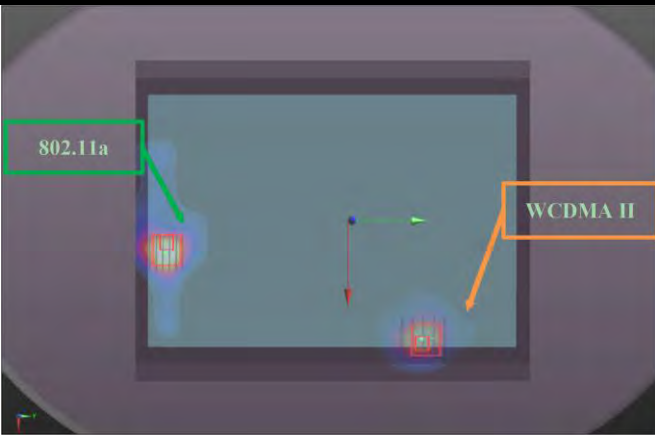


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

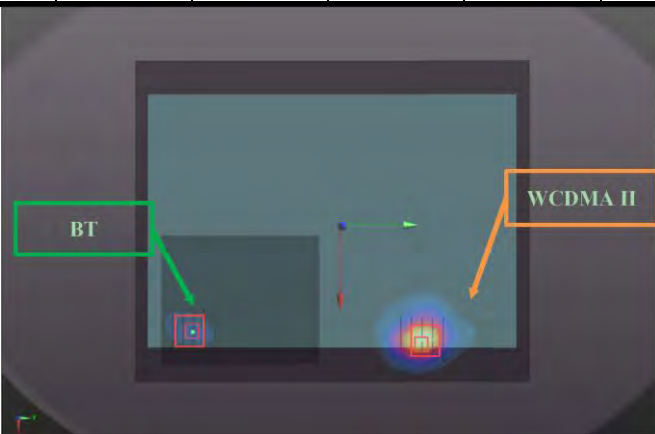


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9262	Body	Rear Face	0.56	77.7	77.1	2.04	215.1	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9262	Body	Rear Face	0.56	77.7	77.1	2.04	184.7	0.00	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



WCDMA IV

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV Ch1312	Body	Rear Face	0.74	76.8	78	2.08	216.8	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.50	24.3	-132.3	1.51			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV Ch1312	Body	Rear Face	0.74	76.8	78	2.08	185.9	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			1.18	86.4	-107.7	2.55			

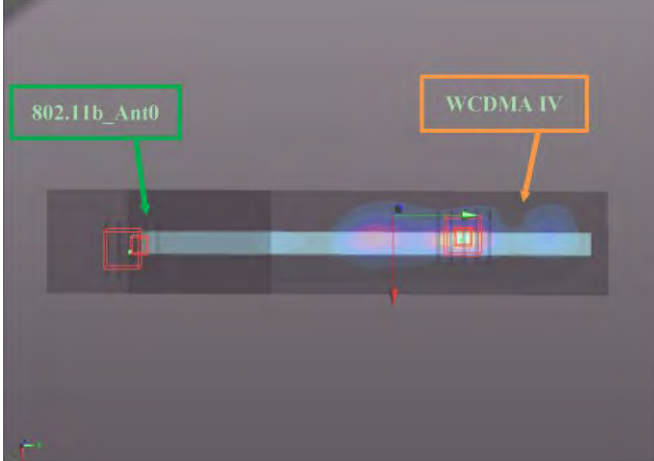


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

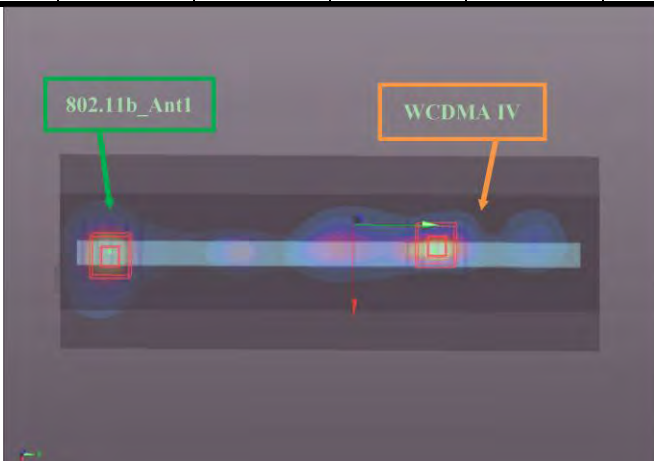


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV Ch1312	Body	Top Side	0.69	-3.1	58.5	0.32	200.1	0.00	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.03	22	-140	2.4			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV Ch1312	Body	Top Side	0.69	-3.1	58.5	0.32	181.1	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

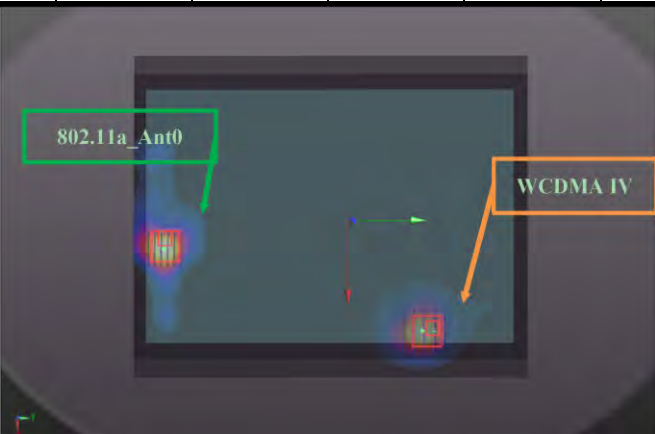


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

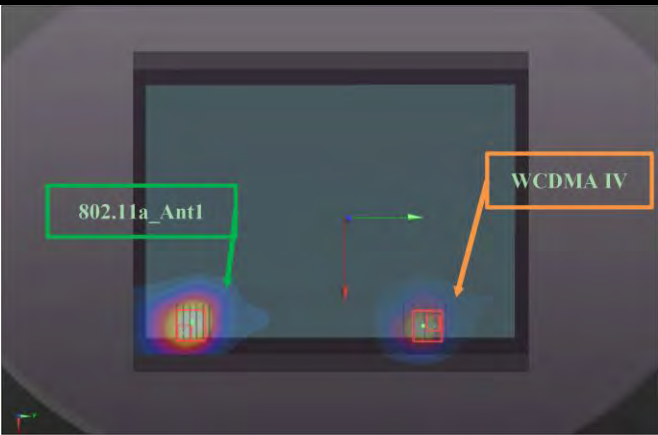


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV Ch1312	Body	Rear Face	0.74	76.8	78	2.08	215.7	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV Ch1312	Body	Rear Face	0.74	76.8	78	2.08	188.7	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			



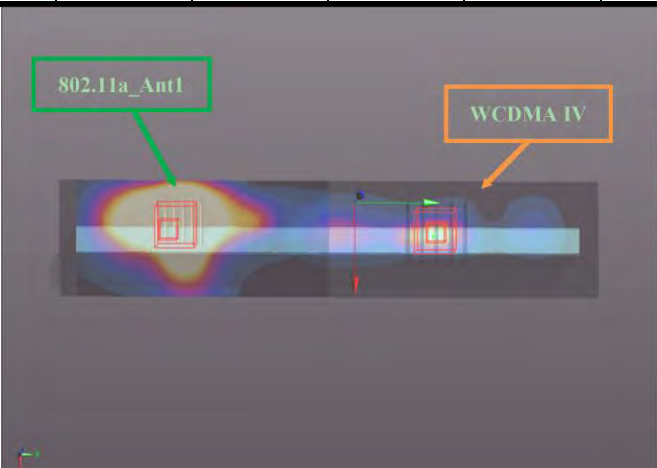
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			



FCC SAR Test Report

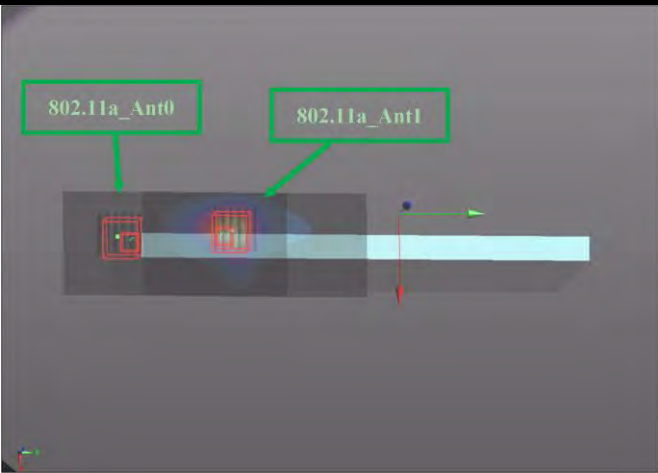
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV Ch1312	Body	Top Side	0.69	-3.1	58.5	0.32	206.0	0.00	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV Ch1312	Body	Top Side	0.69	-3.1	58.5	0.32	149.0	0.02	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

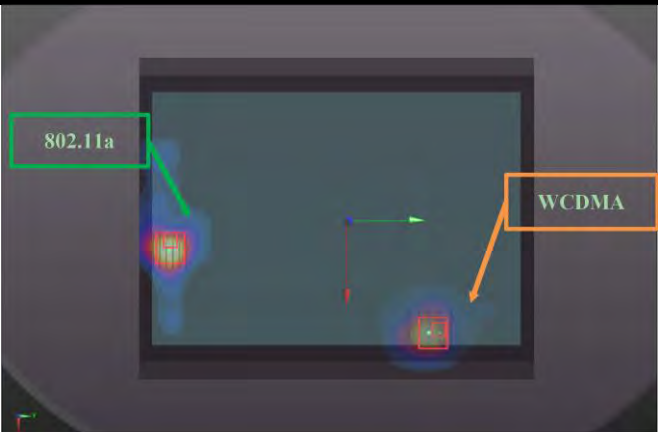


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

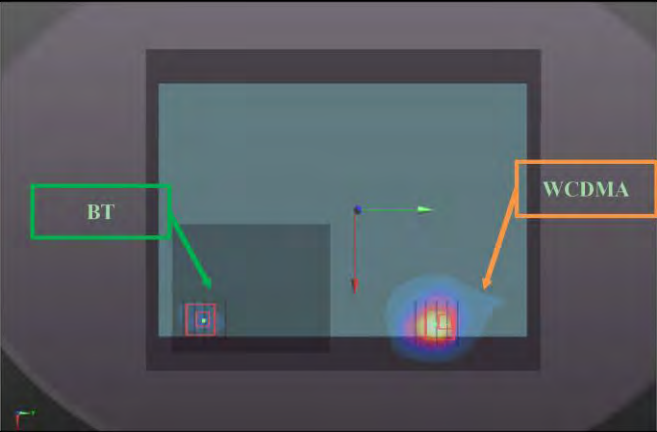


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV Ch1312	Body	Rear Face	0.74	76.8	78	2.08	215.7	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV Ch1312	Body	Rear Face	0.74	76.8	78	2.08	185.6	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



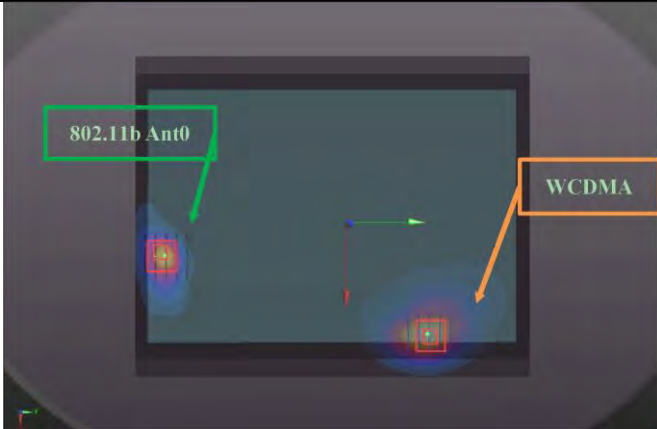
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



FCC SAR Test Report

WCDMA V

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4233	Body	Rear Face	0.86	84.1	74.1	0.76	214.9	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant0			0.50	24.3	-132.3	1.51			

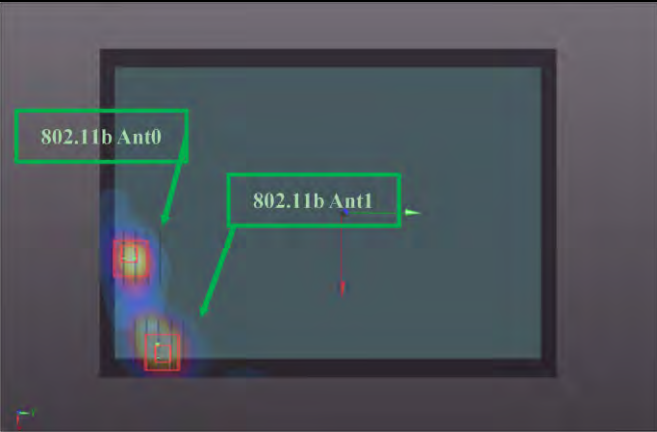


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4233	Body	Rear Face	0.86	84.1	74.1	0.76	181.8	0.02	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

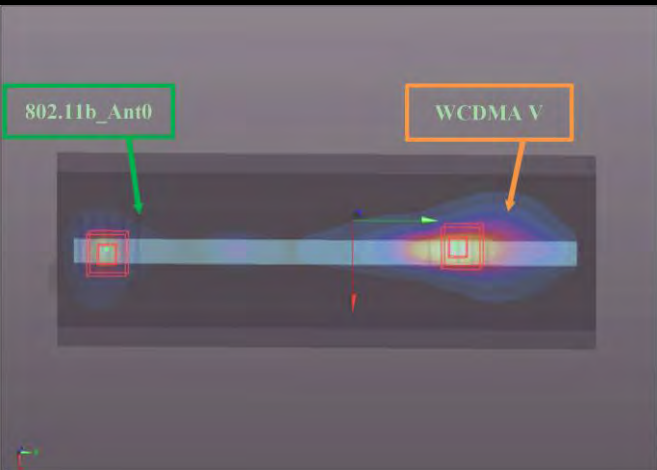


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

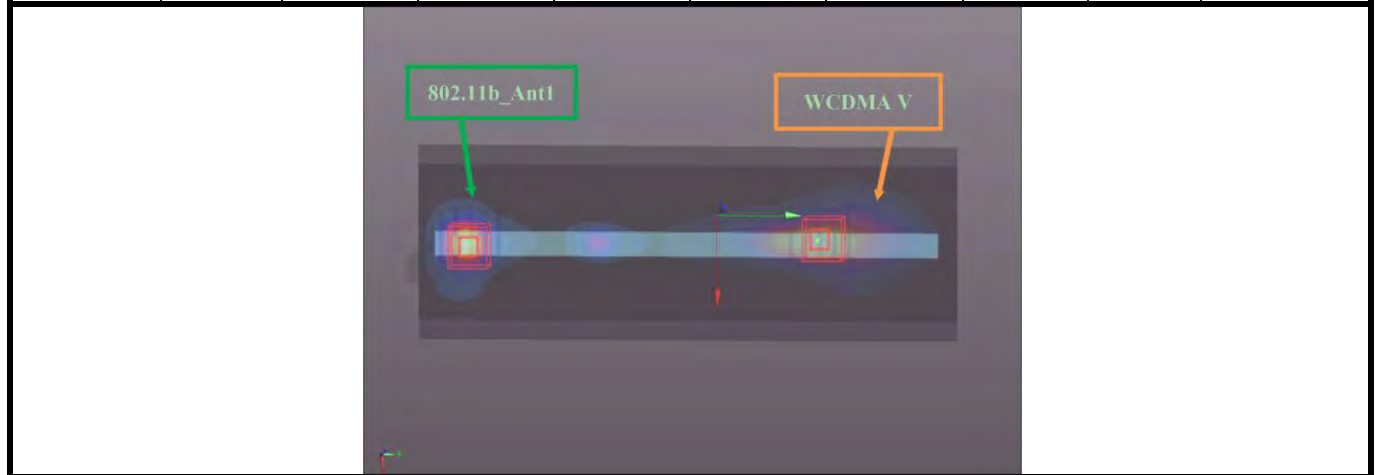


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4132	Body	Top side	1.22	-2	72	-0.2	213.4	0.01	SPLSR < 0.04, Not required
802.11 Ch11Ant0			0.03	22	-140	2.4			

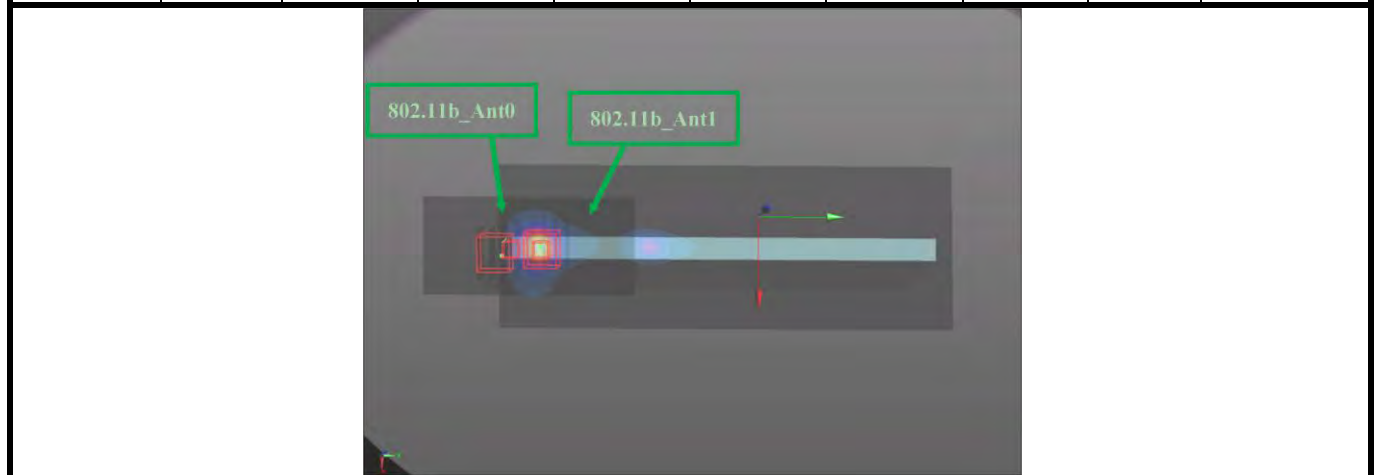


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4132	Body	Top side	1.22	-2	72	-0.2	194.6	0.02	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

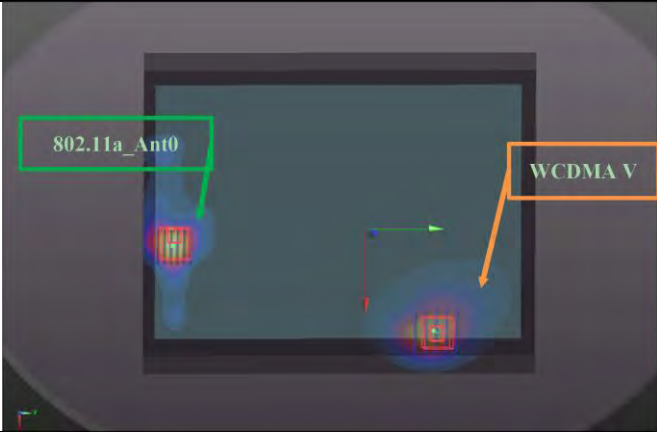


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11_Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

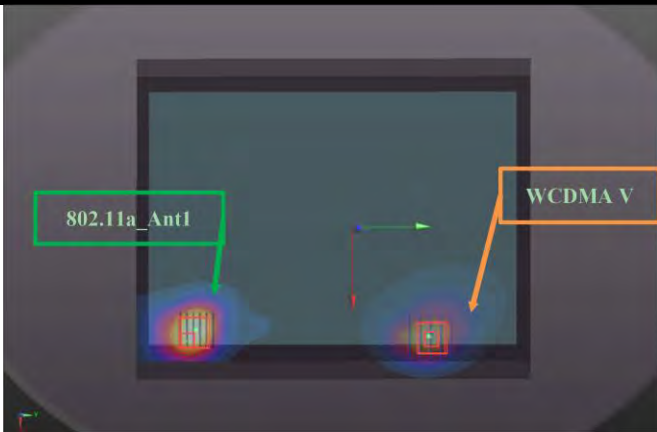


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4233	Body	Rear Face	0.86	84.1	74.1	0.76	214.2	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4233	Body	Rear Face	0.86	84.1	74.1	0.76	184.6	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

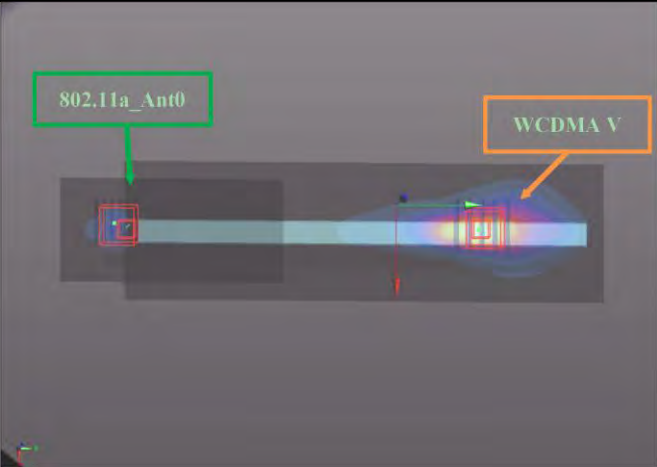


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

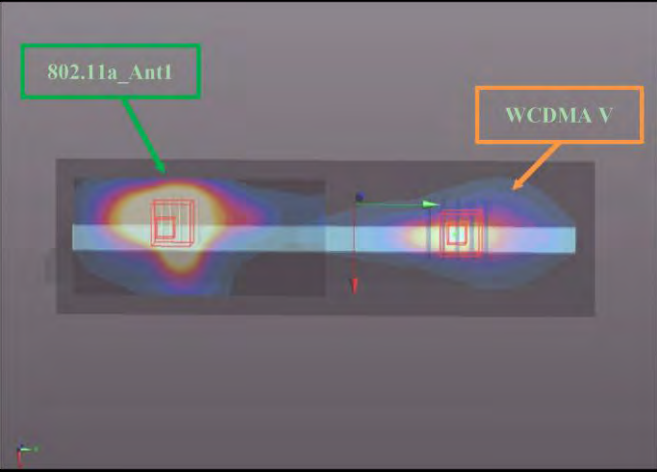


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4132	Body	Top side	1.22	-2	72	-0.2	219.5	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

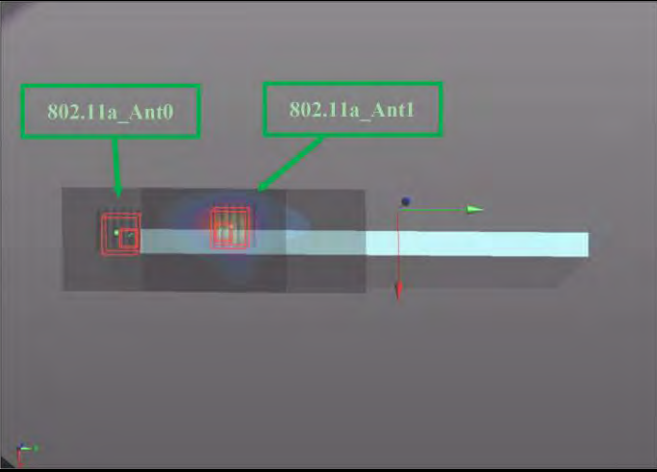


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4132	Body	Top side	1.22	-2	72	-0.2	162.5	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

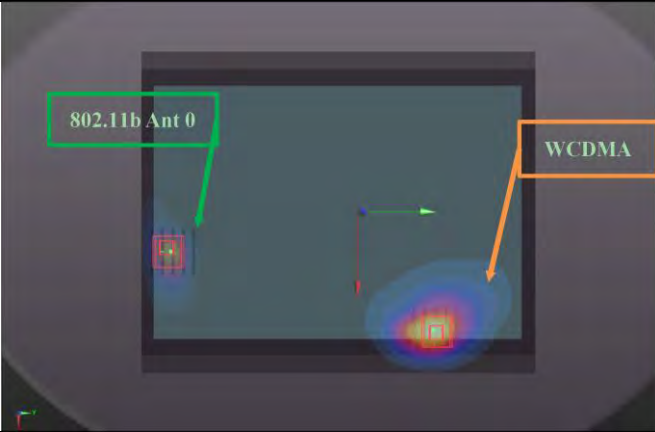


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

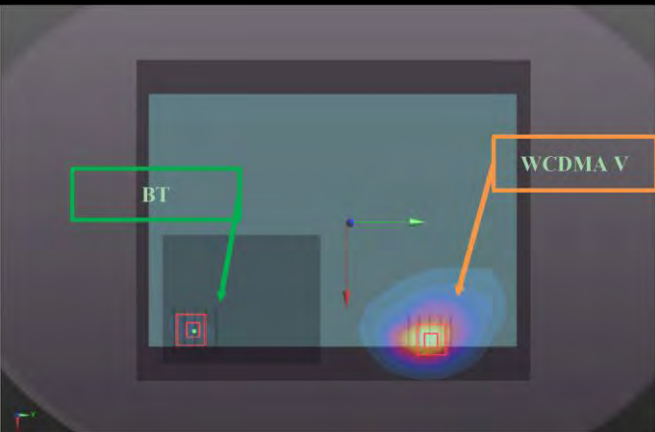


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4233	Body	Rear Face	0.86	84.1	74.1	0.76	214.9	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.50	24.3	-132.3	1.51			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4233	Body	Rear Face	0.86	84.1	74.1	0.76	181.9	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

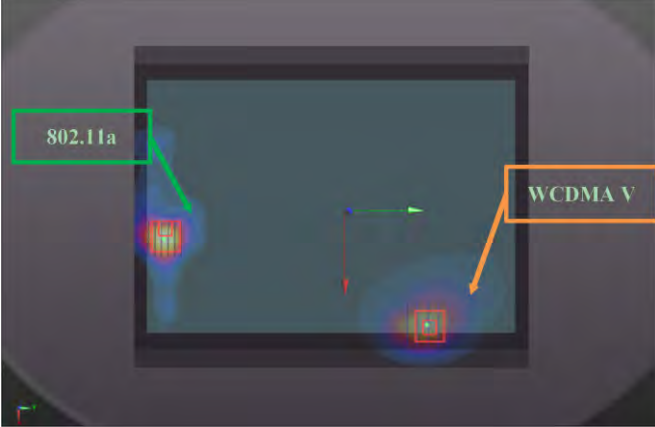


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	58.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

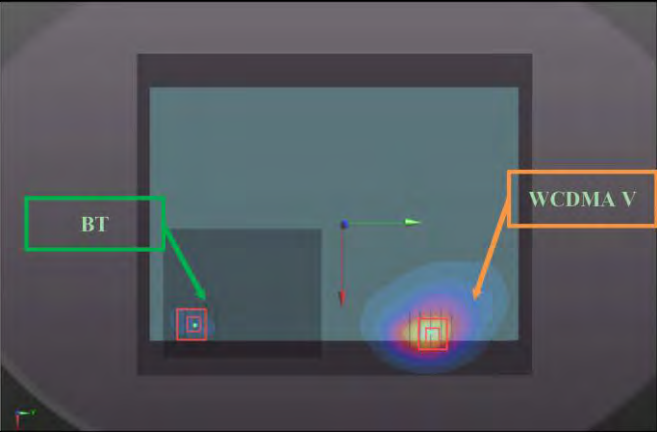


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4233	Body	Rear Face	0.86	84.1	74.1	0.76	214.2	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			

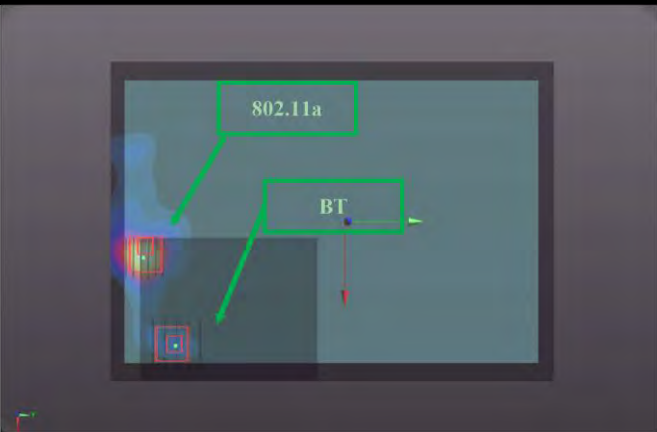


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4182	Body	Rear Face	0.86	84.1	74.1	0.76	181.9	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

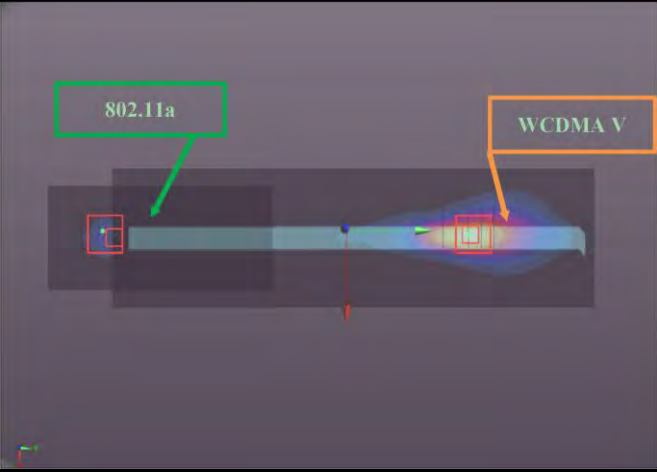


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

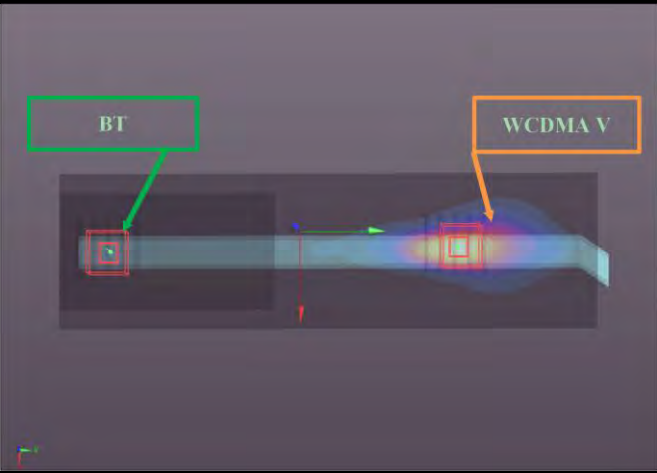


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4132	Body	Top Side	1.22	-2	72	-0.2	219.5	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

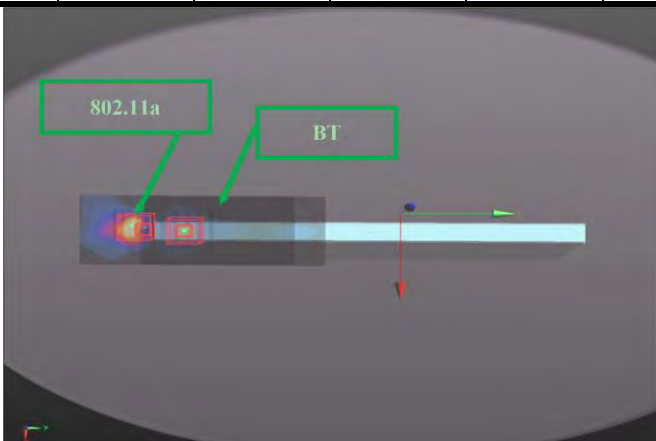


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA V Ch4132	Body	Top Side	1.22	-2	72	-0.2	195.1	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	25.2	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			0.26	0	-123.1	-2.9			

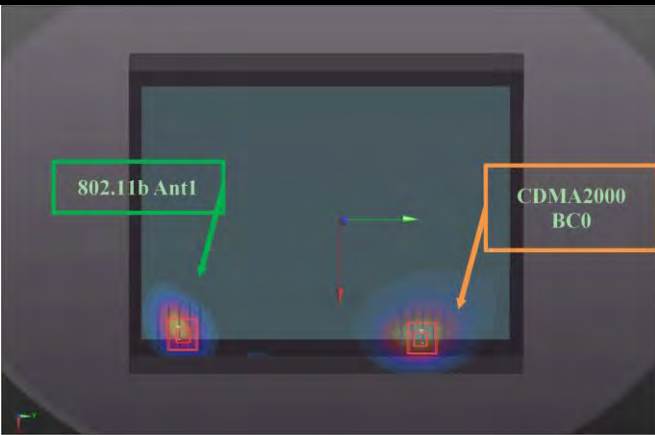


CDMA2000 BC0

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Rear Face	1.16	87.3	72.5	2.03	214.3	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant0			0.50	24.3	-132.3	1.51			

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Rear Face	1.16	87.3	72.5	2.03	180.2	0.02	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

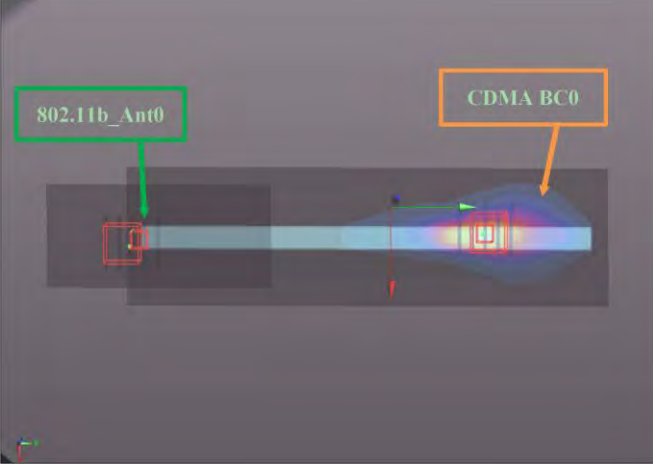


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

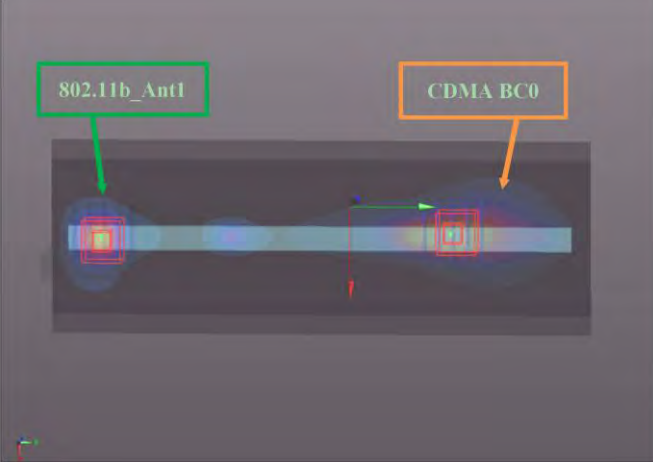


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Top side	1.30	-2	72	-0.22	213.4	0.01	SPLSR < 0.04, Not required
802.11 Ch11Ant0			0.03	22	-140	2.4			

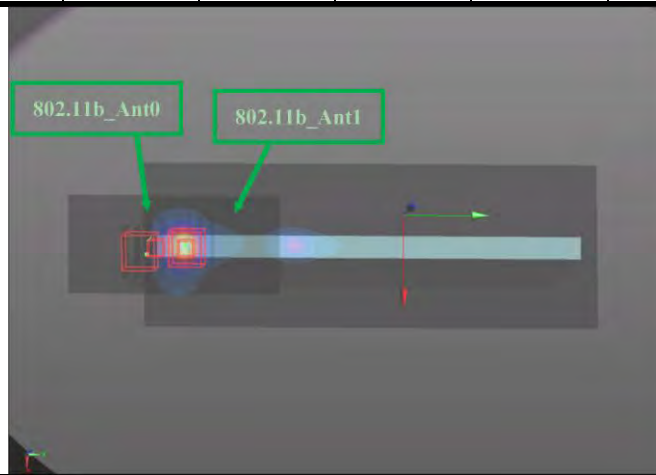


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Top side	1.30	-2	72	-0.22	194.6	0.02	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11_Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

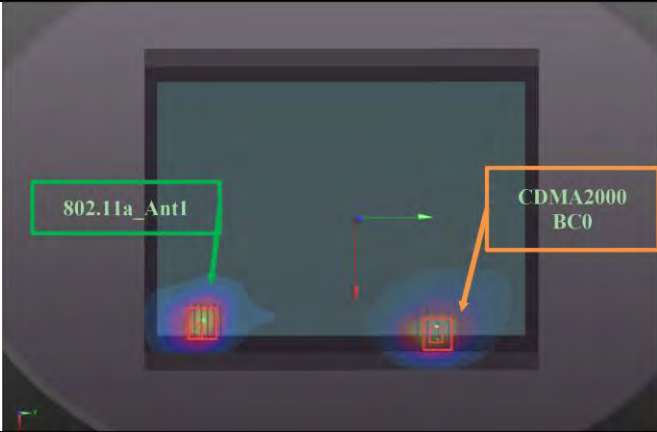


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Rear Face	1.16	87.3	72.5	2.03	213.8	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Rear Face	1.16	87.3	72.5	2.03	183.0	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

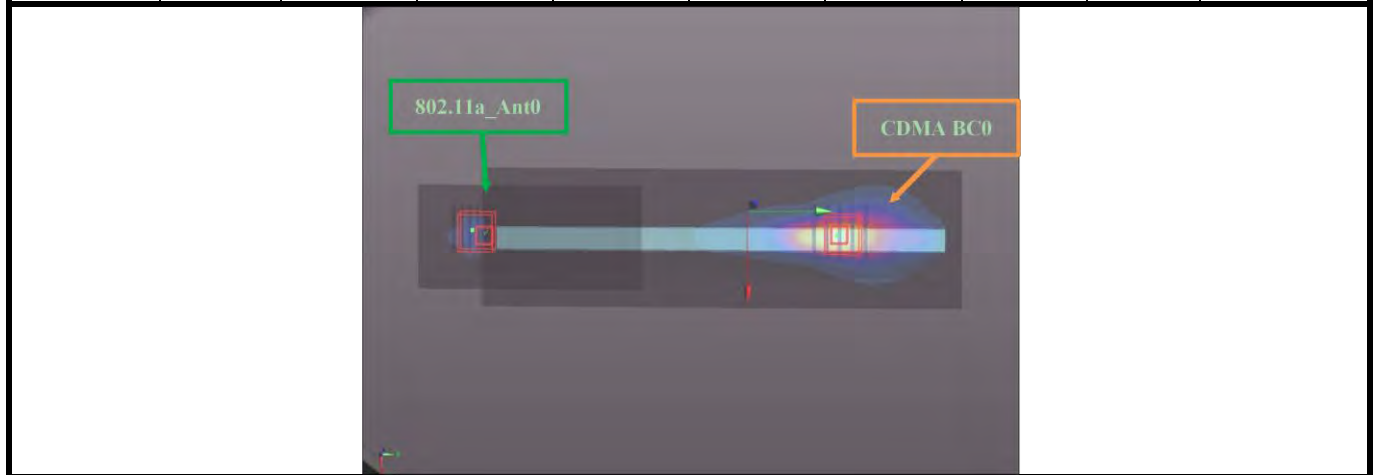


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

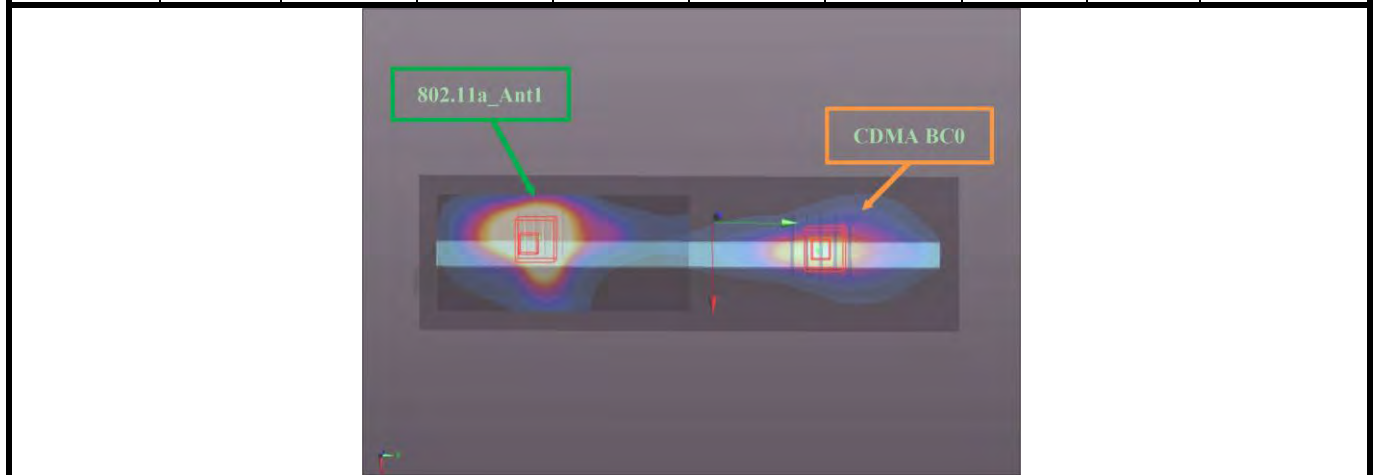


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Top side	1.30	-2	72	-0.22	219.5	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

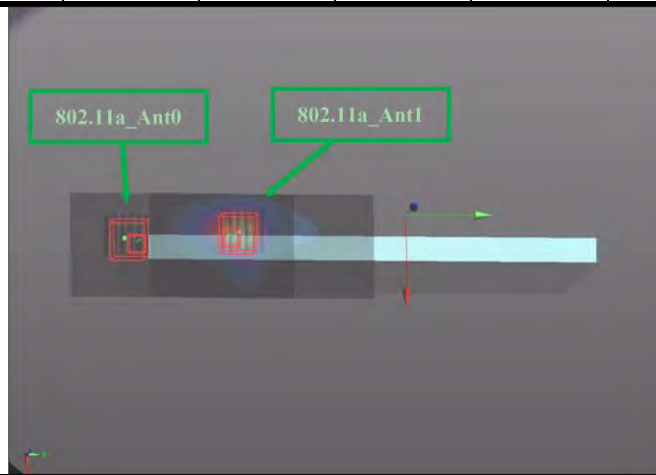


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Top side	1.30	-2	72	-0.22	162.5	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

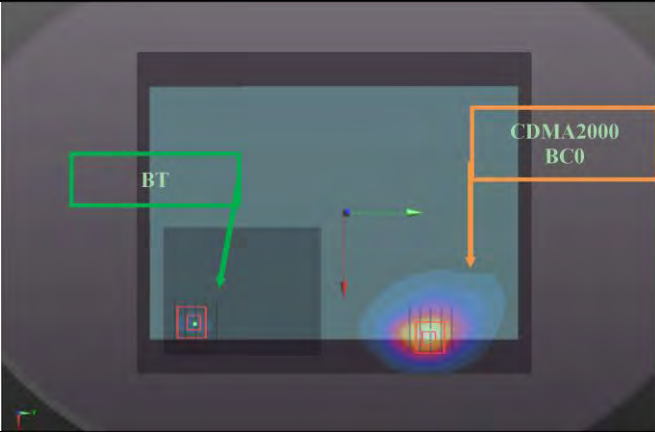


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Rear Face	1.16	87.3	72.5	2.03	214.3	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.50	24.3	-132.3	1.51			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Rear Face	1.16	87.3	72.5	2.03	180.4	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

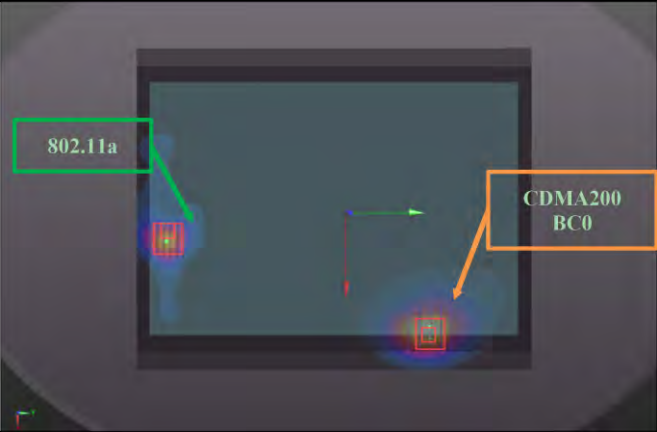


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	58.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

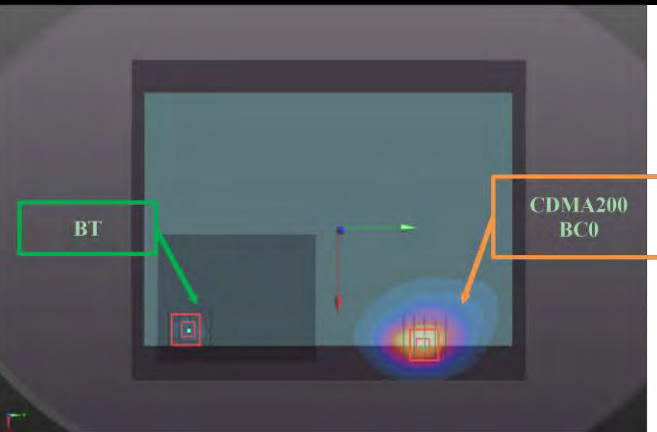


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Rear Face	1.16	87.3	72.5	2.03	213.8	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Rear Face	1.16	87.3	72.5	2.03	180.4	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

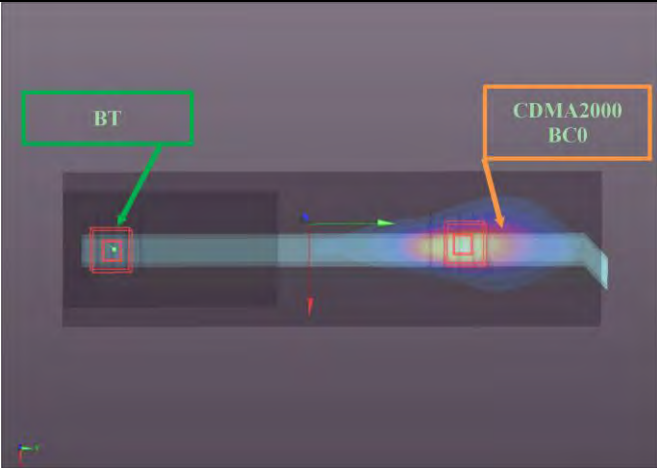


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Top Side	1.30	-2	72	-0.22	219.5	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

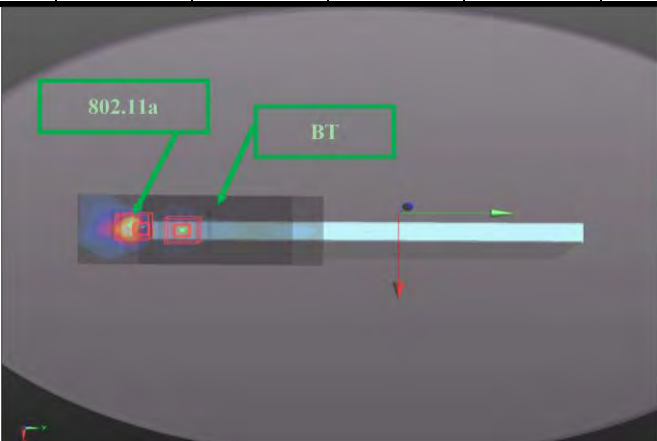


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC0 Ch1013	Body	Top Side	1.30	-2	72	-0.22	195.1	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			



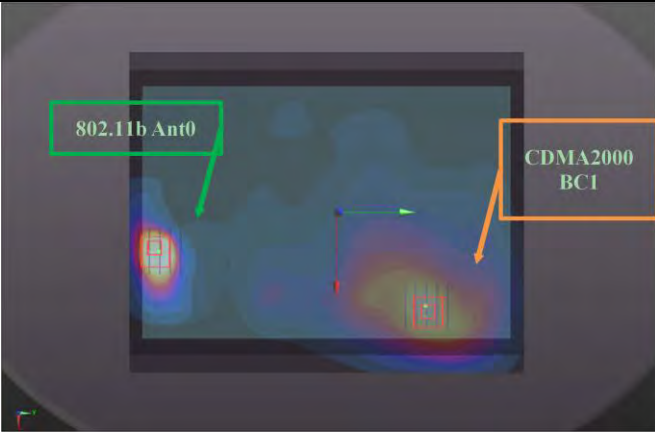
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	25.2	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			0.26	0	-123.1	-2.9			



FCC SAR Test Report

CDMA2000 BC1

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC1 Ch1175	Body	Rear Face	0.43	69.8	76.6	0.58	213.8	0.00	SPLSR < 0.04, Not required
802.11b ch11 Ant0			0.50	24.3	-132.3	1.51			

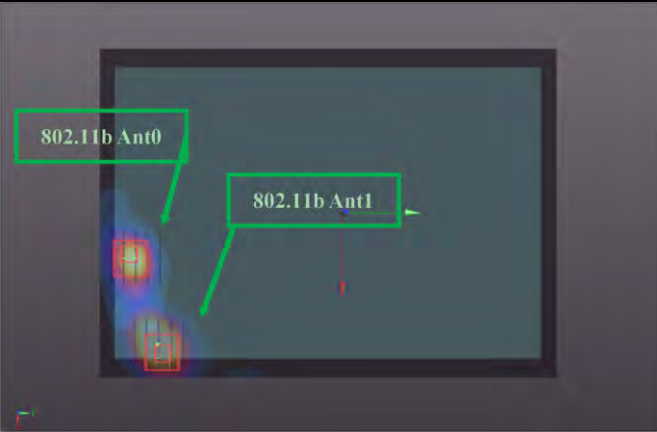


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC1 Ch1175	Body	Rear Face	0.43	69.8	76.6	0.58	185.1	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

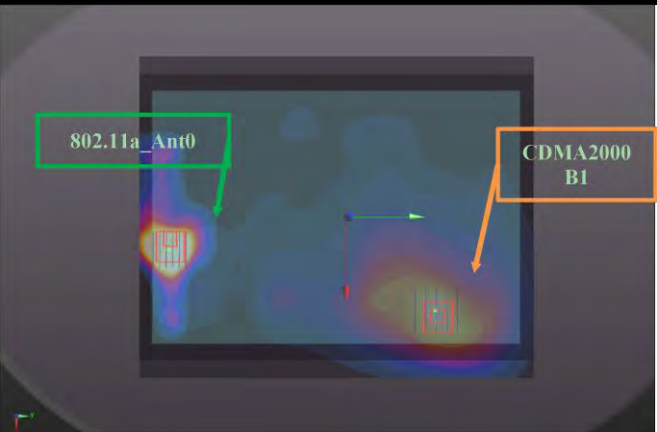


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

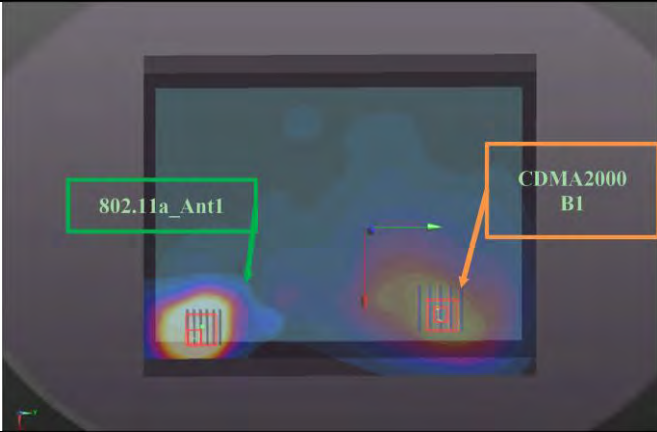


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC1 Ch1175	Body	Rear Face	0.43	69.8	76.6	0.58	212.3	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			

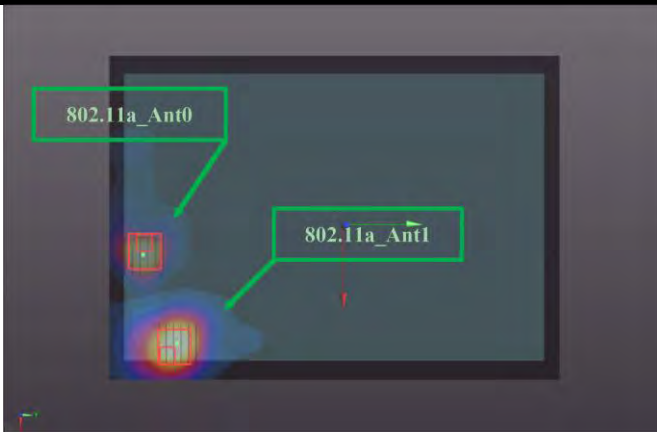


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC1 Ch1175	Body	Rear Face	0.43	69.8	76.6	0.58	187.8	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

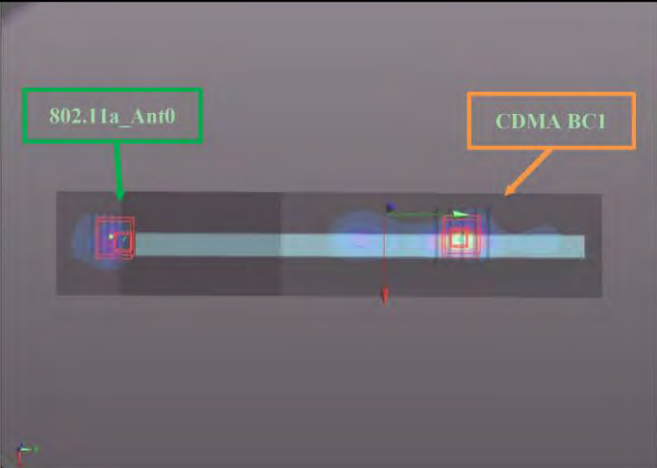


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			



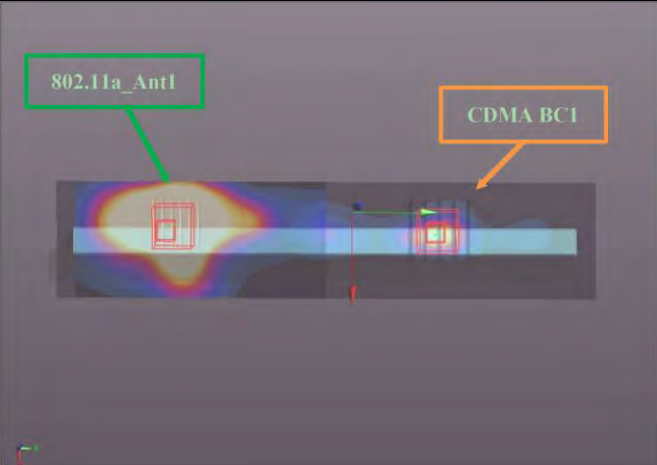
FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC1 Ch25	Body	Top side	0.60	-3	61.5	-0.22	209.0	0.00	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			



The figure shows a 3D visualization of the SAR field distribution for the test setup. Two antennas are shown: 802.11a_Ant0 (highlighted with a green box) and CDMA BC1 (highlighted with an orange box). The field distribution is represented by a color-coded volume, with red indicating higher SAR values and blue indicating lower values. The antennas are positioned along a horizontal axis, and the field distribution is shown in a perspective view.

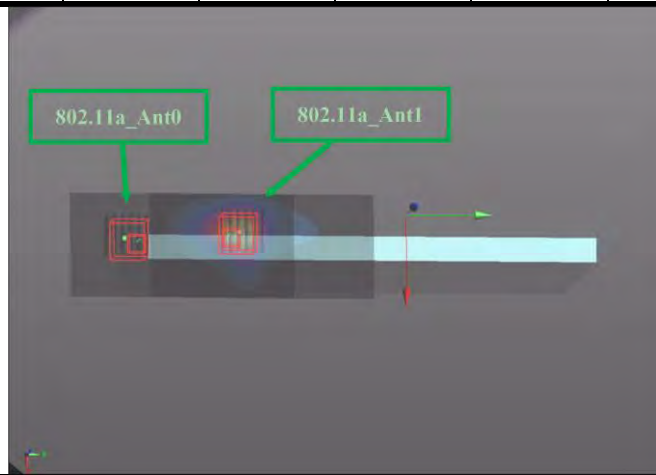
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC1 Ch25	Body	Top side	0.60	-3	61.5	-0.22	152.0	0.02	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			



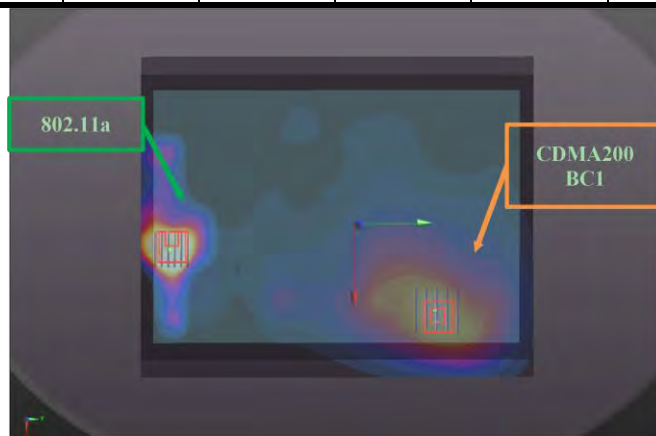
The figure shows a 3D visualization of the SAR field distribution for the test setup. Two antennas are shown: 802.11a_Ant1 (highlighted with a green box) and CDMA BC1 (highlighted with an orange box). The field distribution is represented by a color-coded volume, with red indicating higher SAR values and blue indicating lower values. The antennas are positioned along a horizontal axis, and the field distribution is shown in a perspective view.

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

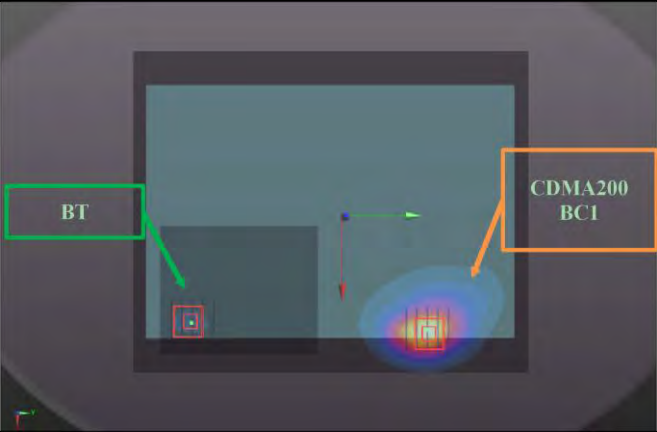


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC1 Ch1175	Body	Rear Face	0.43	69.8	76.6	0.58	212.3	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			

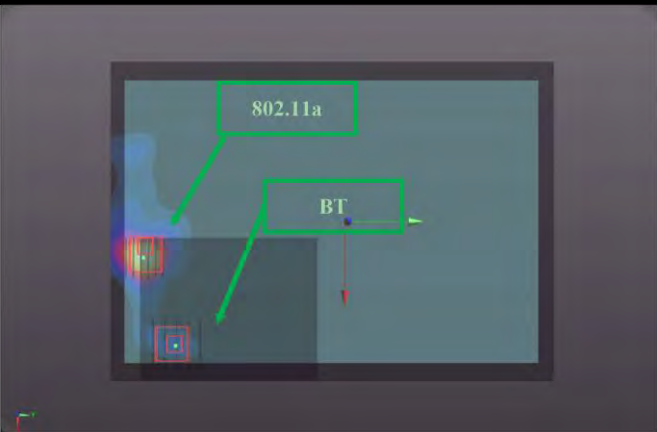


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC1 Ch1175	Body	Rear Face	0.43	69.8	76.6	0.58	184.4	0.00	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



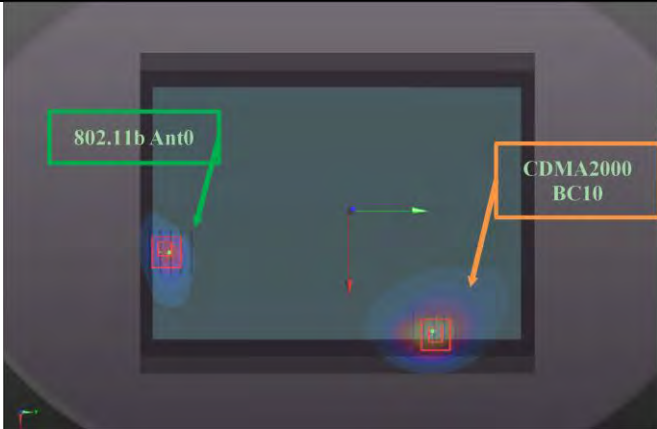
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



FCC SAR Test Report

CDMA2000 BC10

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Rear Face	1.14	85.7	74.1	1.24	215.3	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant0			0.50	24.3	-132.3	1.51			

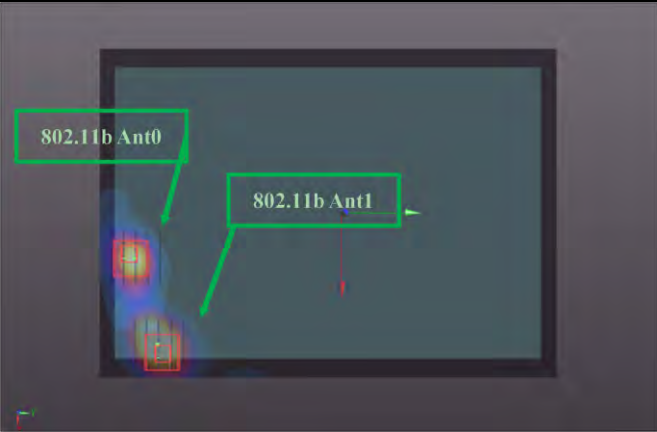


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Rear Face	1.14	85.7	74.1	1.24	181.8	0.02	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

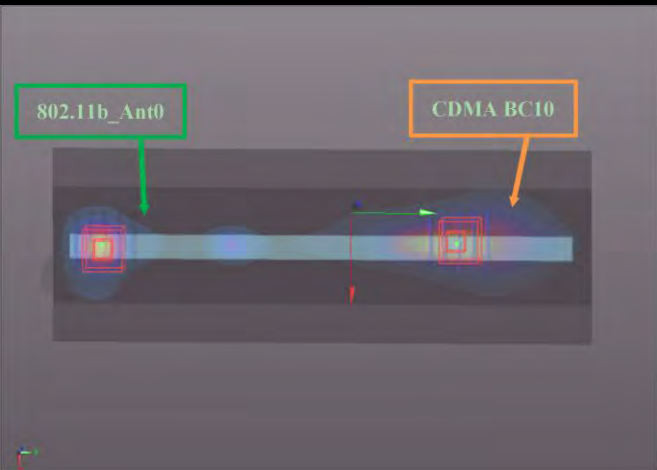


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

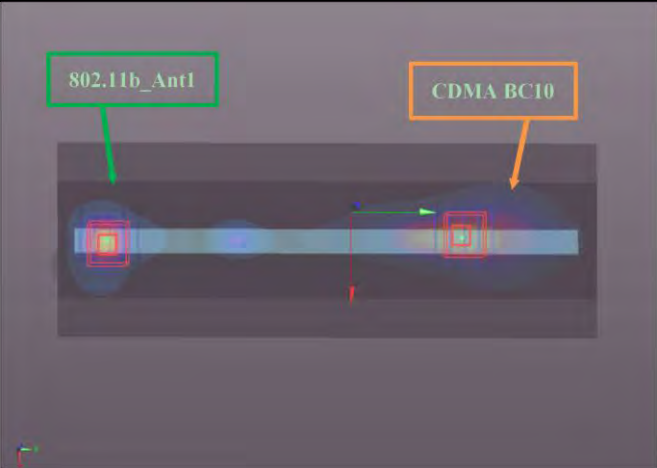


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Top side	1.31	-1.5	75	-0.63	216.3	0.01	SPLSR < 0.04, Not required
802.11 Ch11Ant0			0.03	22	-140	2.4			

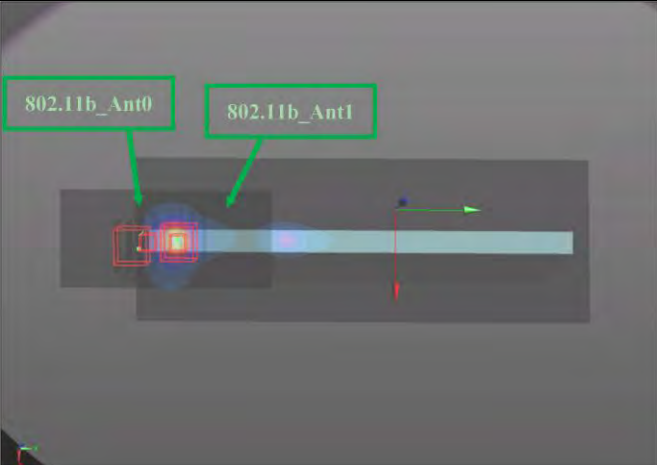


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Top side	1.31	-1.5	75	-0.63	197.6	0.02	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

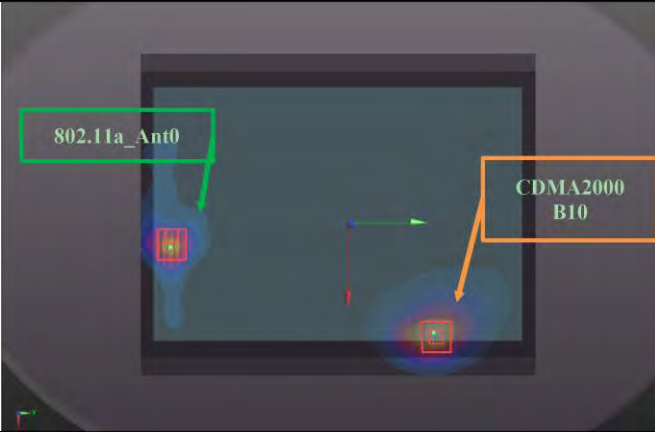


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11_Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Rear Face	1.14	85.7	74.1	1.24	214.8	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



The image shows a SAR field distribution plot for the rear face of a device. Two antennas are highlighted: 802.11a_Ant0 (green box) and CDMA2000 B10 (orange box). The plot shows the spatial distribution of the SAR field, with color-coded regions indicating different levels of exposure. A coordinate system is visible in the center of the plot.

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Rear Face	1.14	85.7	74.1	1.24	184.6	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			



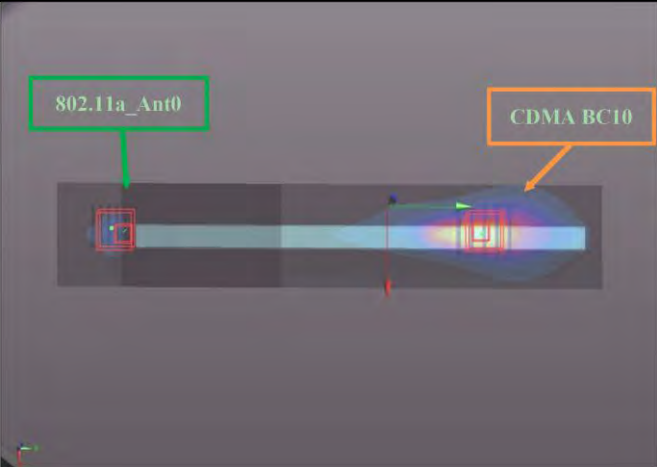
The image shows a SAR field distribution plot for the rear face of a device. Two antennas are highlighted: 802.11a_Ant1 (green box) and CDMA2000 B10 (orange box). The plot shows the spatial distribution of the SAR field, with color-coded regions indicating different levels of exposure. A coordinate system is visible in the center of the plot.

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

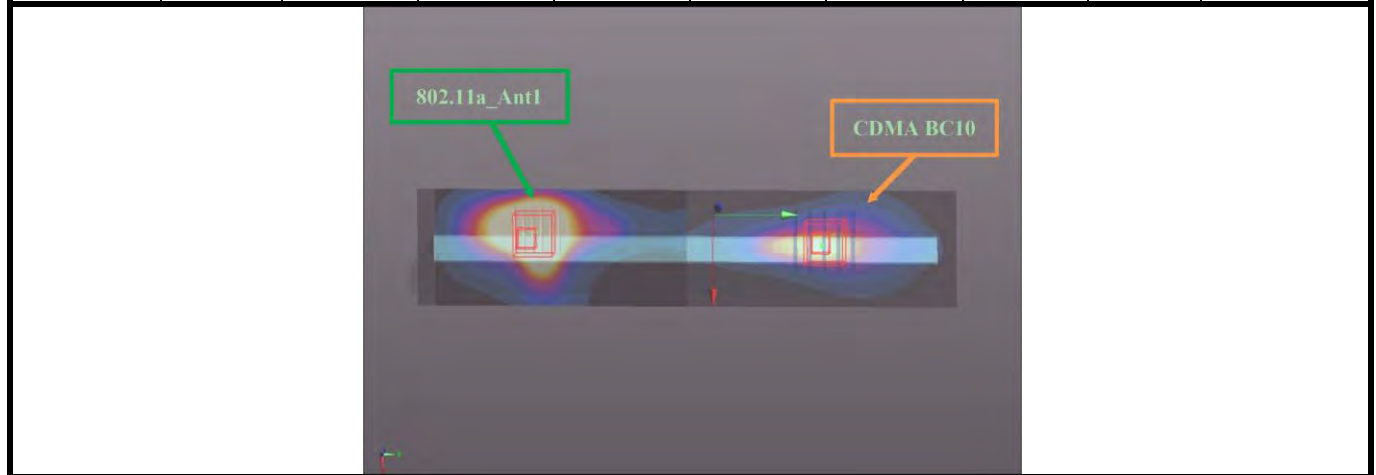


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Top side	1.31	-1.5	75	-0.63	222.5	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

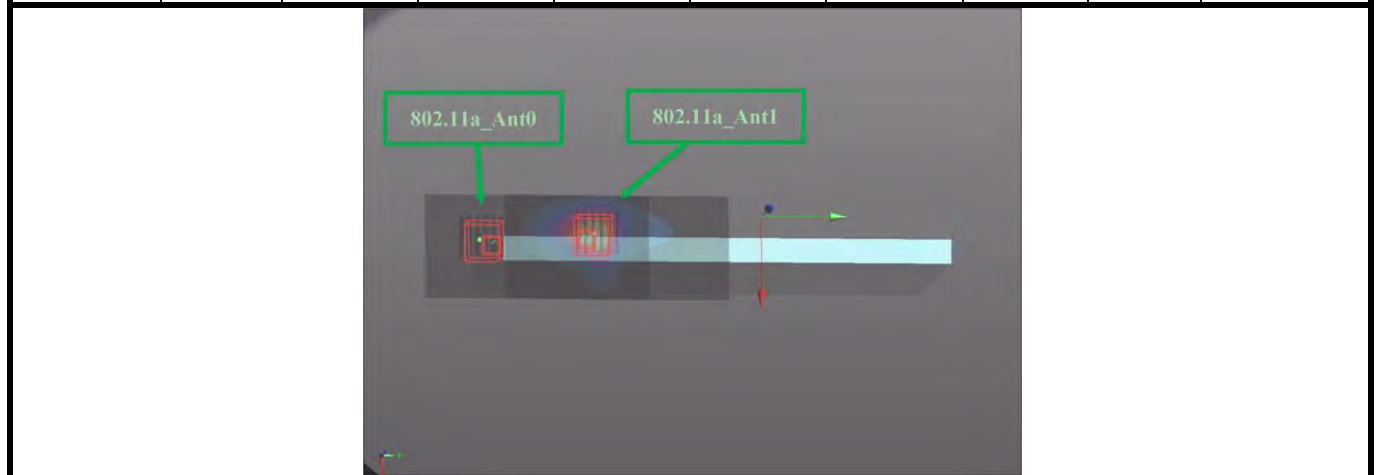


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Top side	1.31	-1.5	75	-0.63	165.6	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

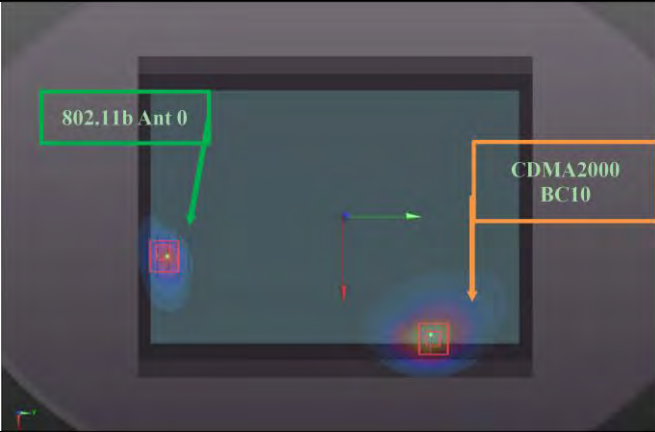


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

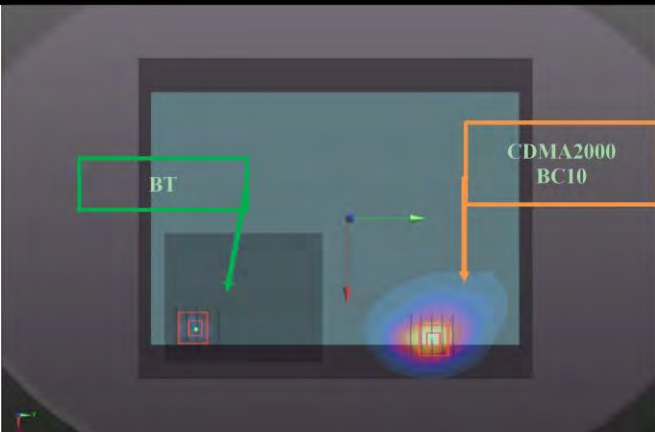


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Rear Face	1.14	85.7	74.1	1.24	215.3	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.50	24.3	-132.3	1.51			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Rear Face	1.14	85.7	74.1	1.24	182.0	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	58.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

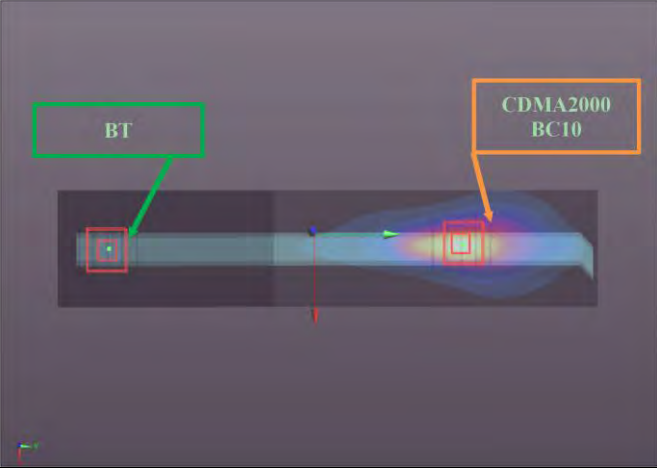


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Top side	1.31	-1.5	75	-0.63	216.3	0.01	SPLSR < 0.04, Not required
802.11 Ch11Ant0			0.03	22	-140	2.4			

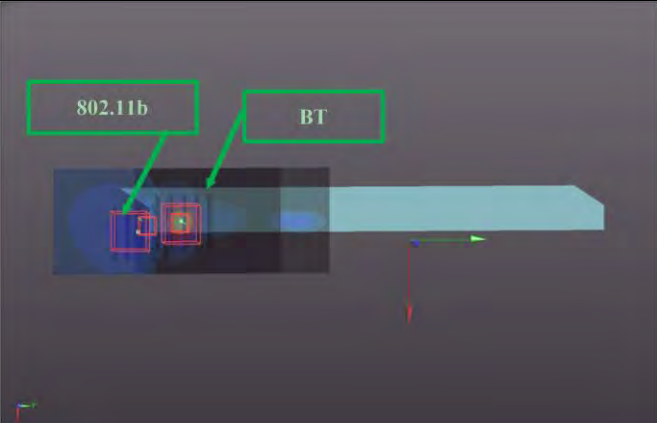


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Top Side	1.31	-1.5	75	-0.63	198.1	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			

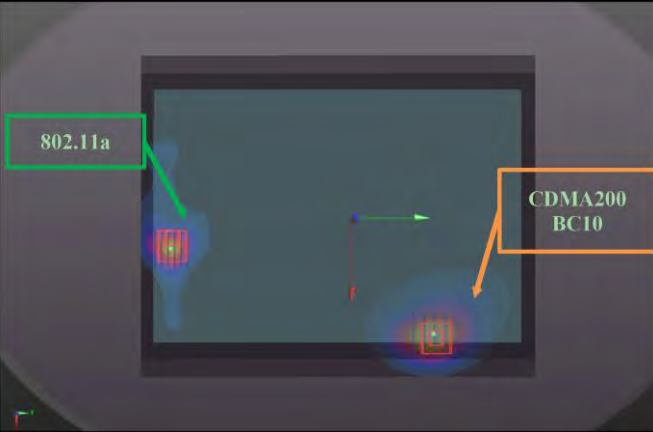


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11_Ant0	Body	Top Side	0.03	22	-140	2.4	28.2	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			

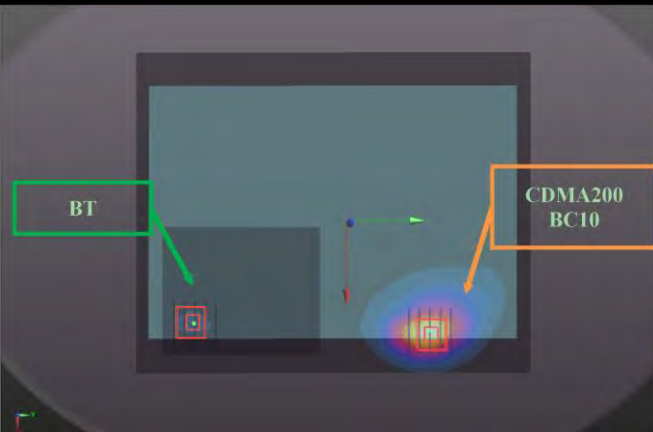


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Rear Face	1.14	85.7	74.1	1.24	214.8	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Rear Face	1.14	85.7	74.1	1.24	182.0	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

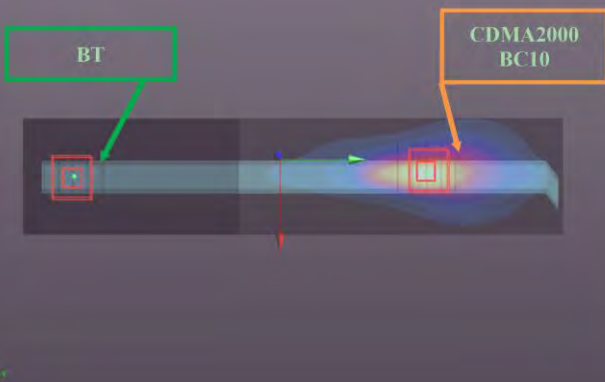


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Top Side	1.31	-1.5	75	-0.63	222.5	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC10 Ch684	Body	Top Side	1.31	-1.5	75	-0.63	198.1	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			



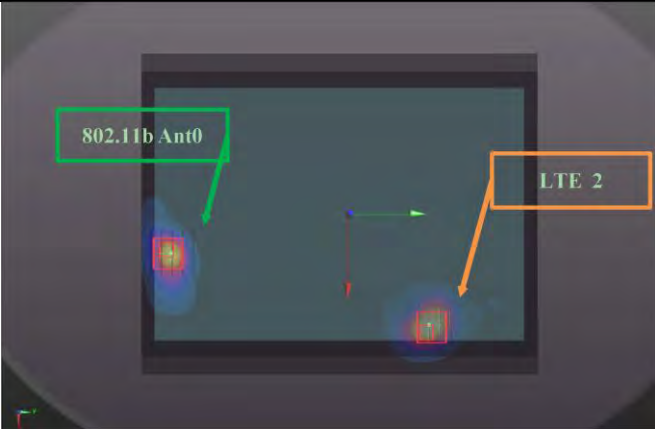
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	25.2	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			0.26	0	-123.1	-2.9			



FCC SAR Test Report

LTE 2

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18700	Body	Rear Face	0.65	74.3	77.1	2.48	215.3	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant0			0.50	24.3	-132.3	1.51			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18700	Body	Rear Face	0.65	74.3	77.1	2.48	185.2	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

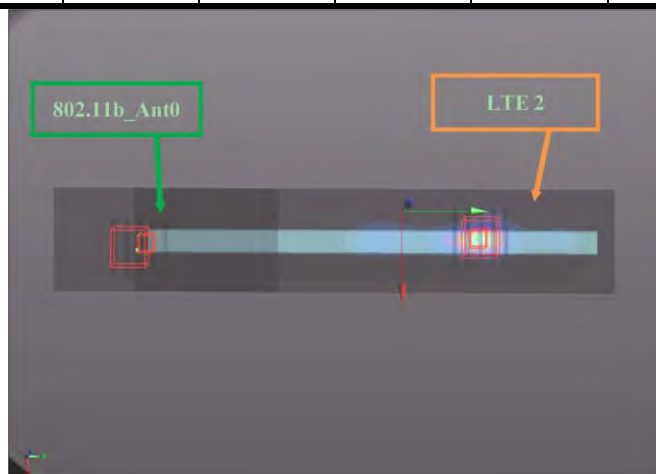


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18700	Body	Top side	0.91	-1.5	64.5	3.88	205.9	0.00	SPLSR < 0.04, Not required
802.11b Ch11_Ant0			0.03	22	-140	2.4			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18700	Body	Top side	0.91	-1.5	64.5	3.88	187.1	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

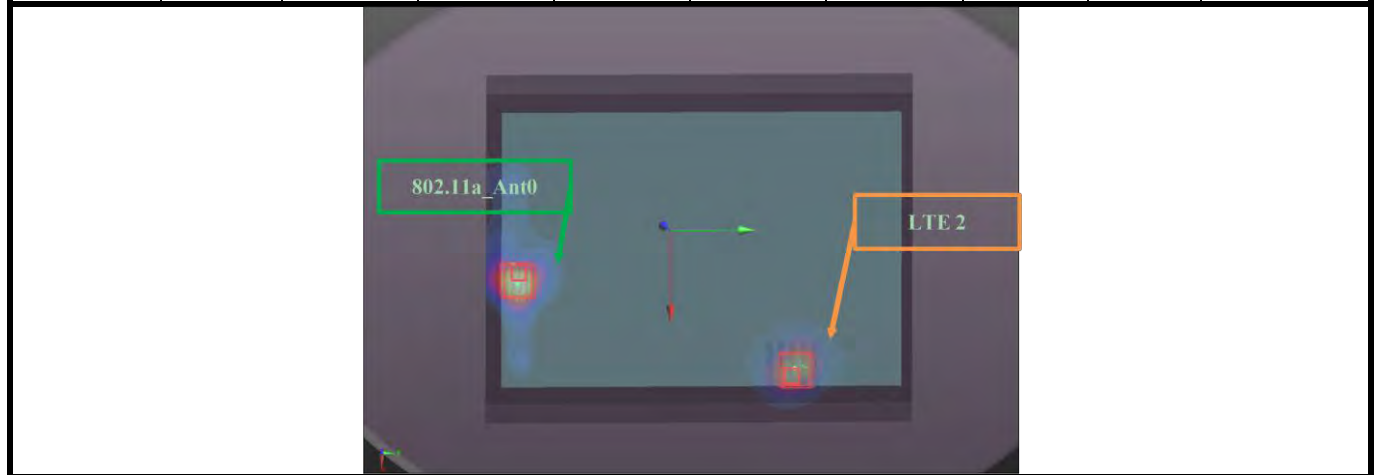


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

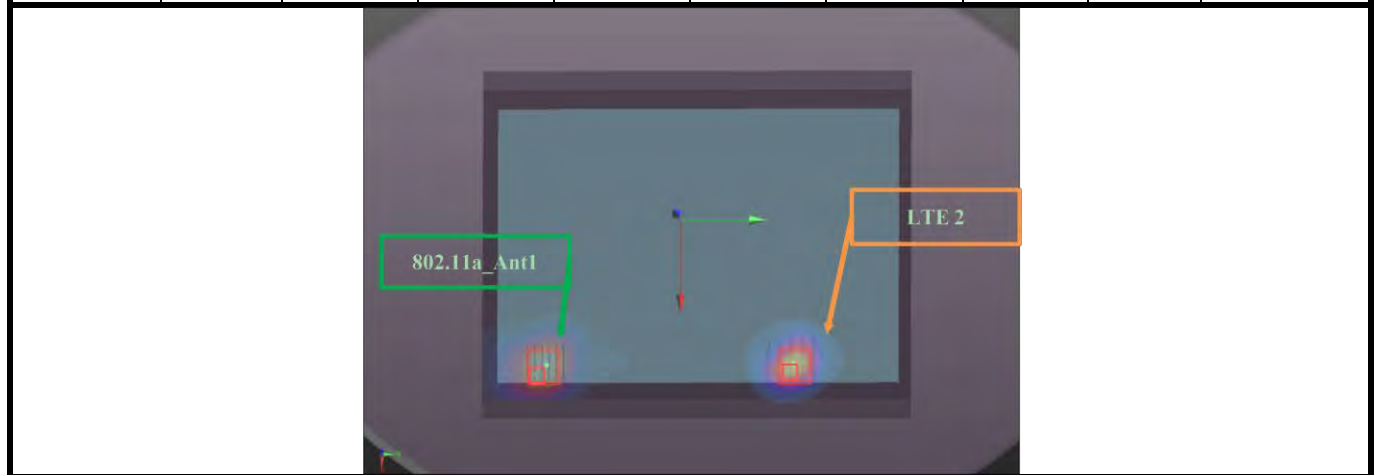


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18700	Body	Rear Face	0.65	74.3	77.1	2.48	214.1	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			

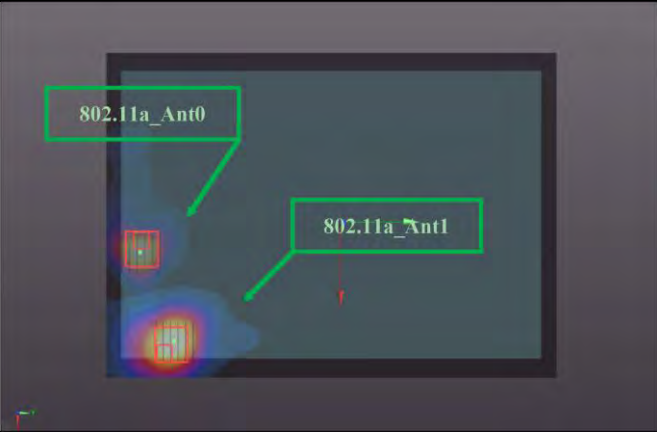


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18700	Body	Rear Face	0.65	74.3	77.1	2.48	188.0	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

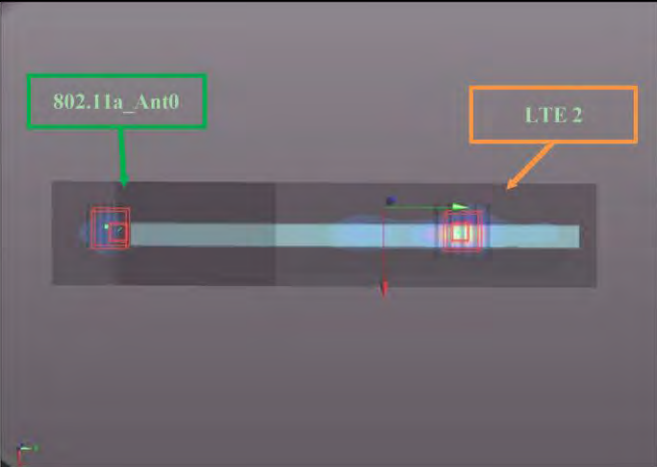


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

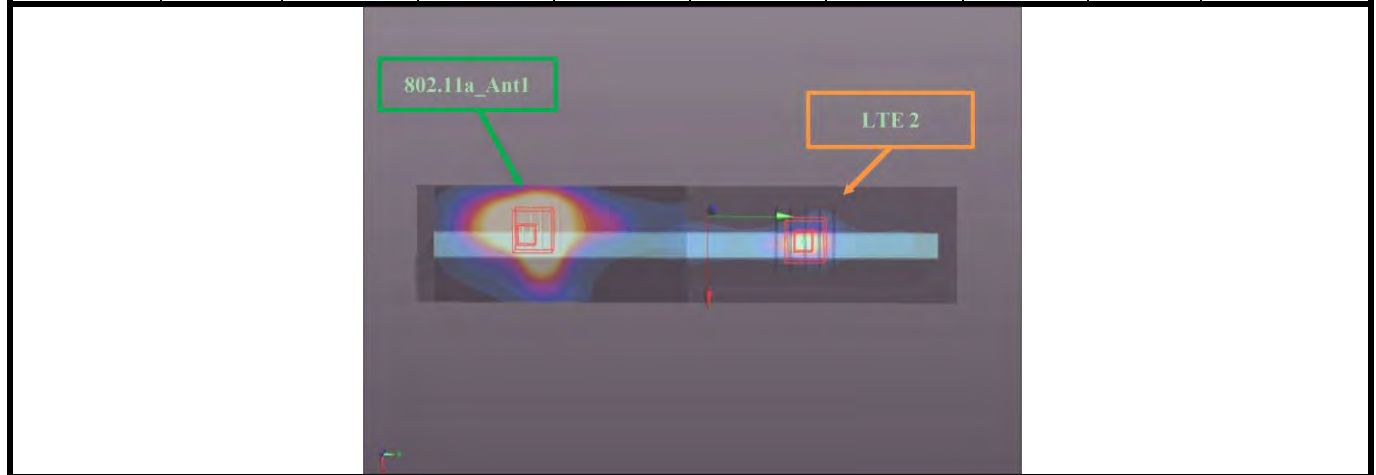


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18700	Body	Top side	0.91	-1.5	64.5	3.88	212.0	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

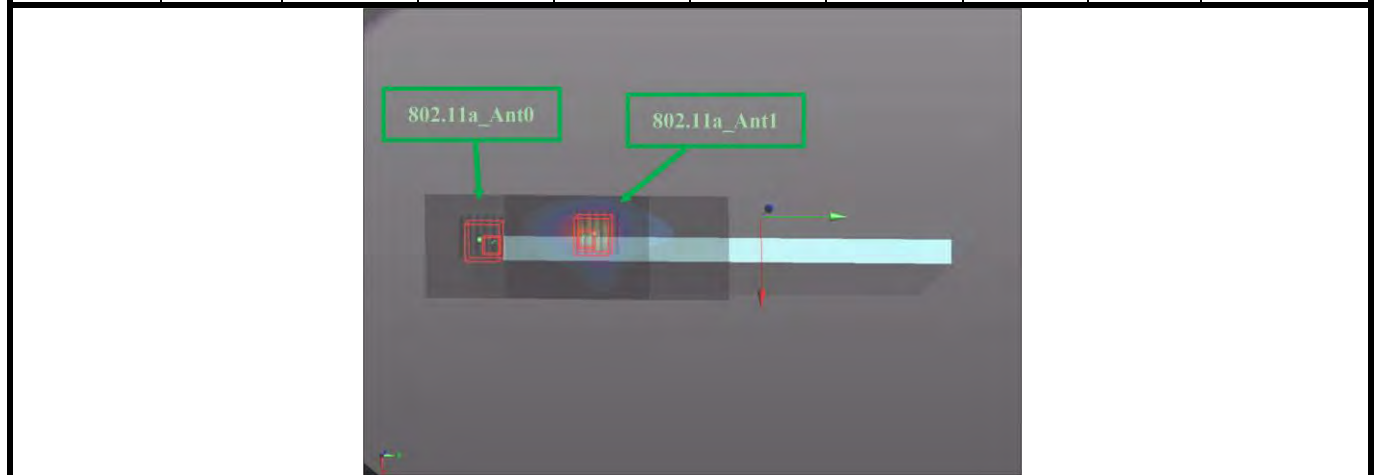


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18700	Body	Top side	0.91	-1.5	64.5	3.88	155.0	0.02	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

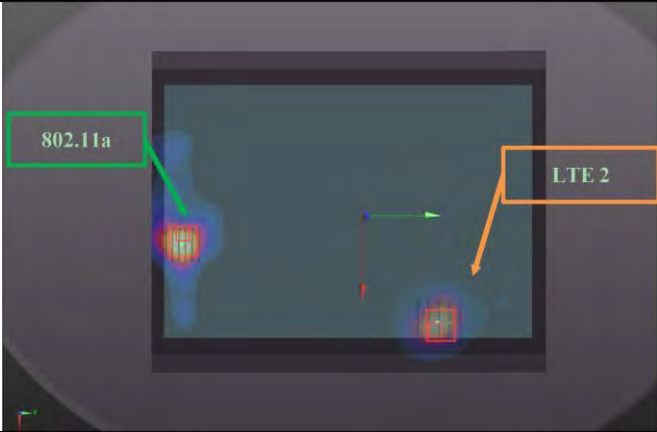


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

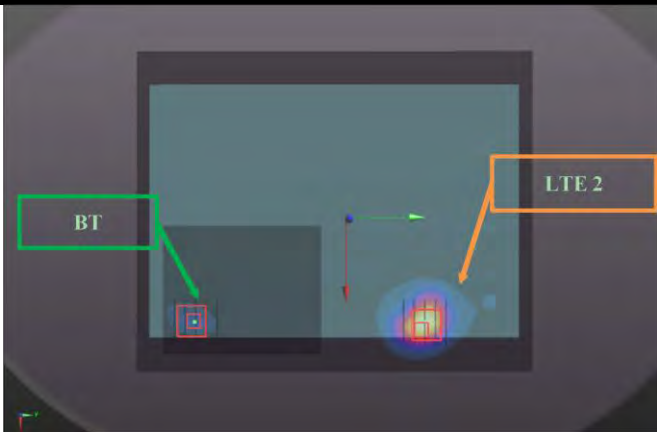


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18700	Body	Rear Face	0.65	74.3	77.1	2.48	214.1	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			

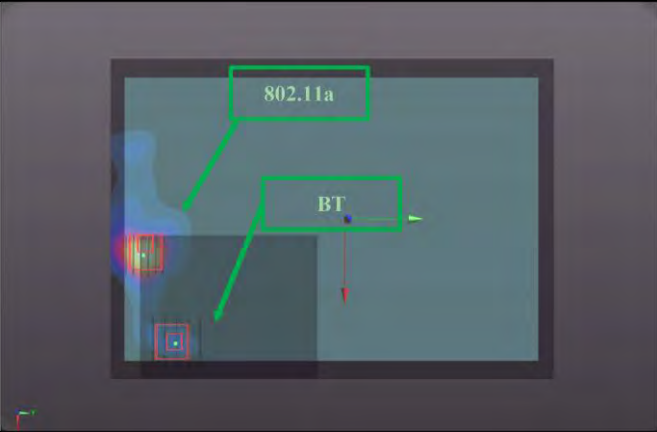


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18700	Body	Rear Face	0.65	74.3	77.1	2.48	184.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



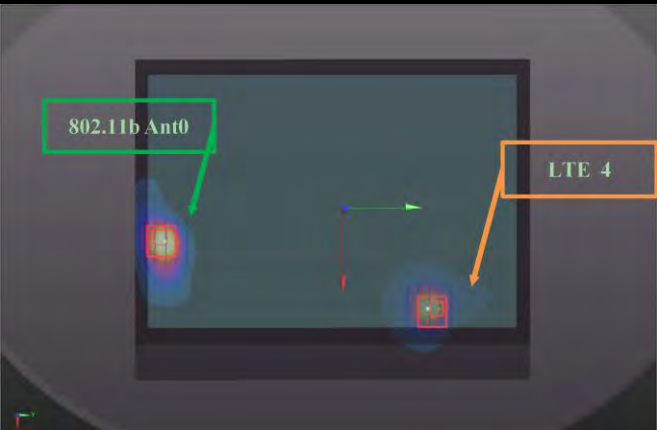
FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



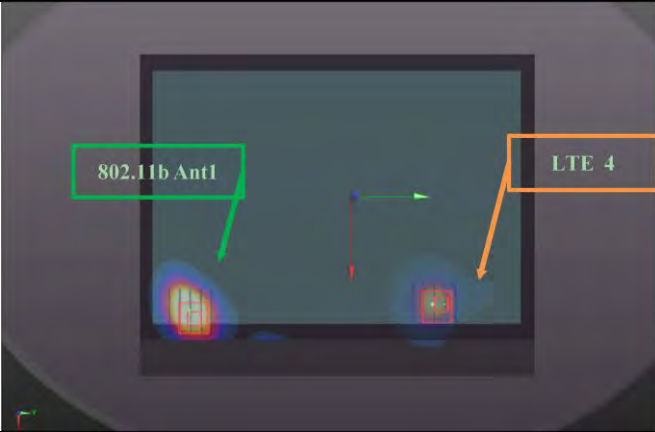
LTE 4

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4 Ch20050	Body	Rear Face	0.57	75	78.9	-3.2	217.3	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.50	24.3	-132.3	1.51			



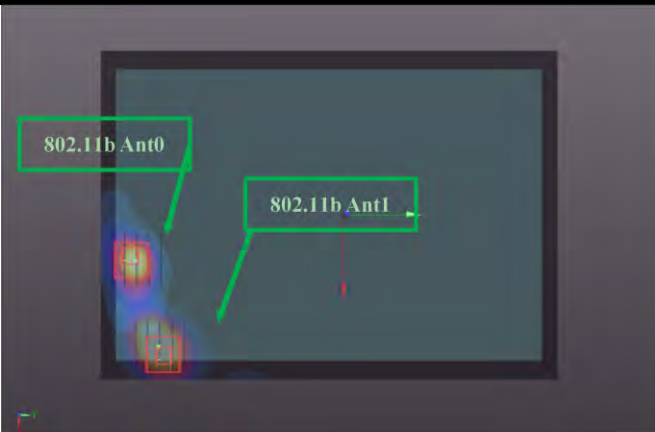
FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4 Ch20050	Body	Rear Face	0.57	75	78.9	-3.2	187.0	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			1.18	86.4	-107.7	2.55			



The image shows a SAR heatmap for the rear face of a device. Two specific areas are highlighted with green boxes and labels: '802.11b Ant1' and 'LTE 4'. The heatmap displays color-coded intensity levels, with red indicating higher SAR values. A coordinate system is visible in the bottom left corner of the heatmap.

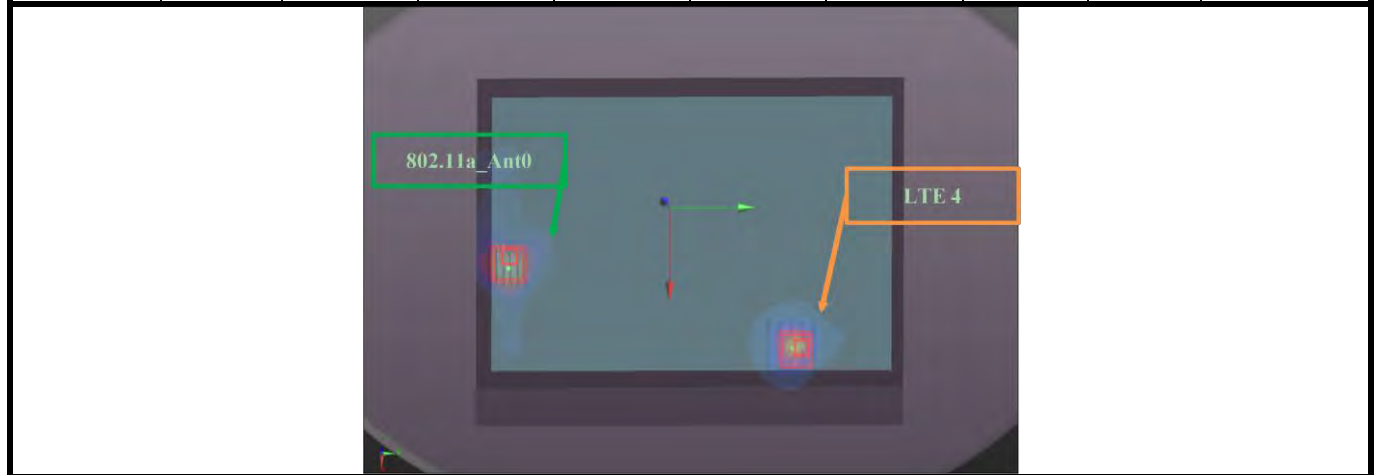
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			1.18	86.4	-107.7	2.55			



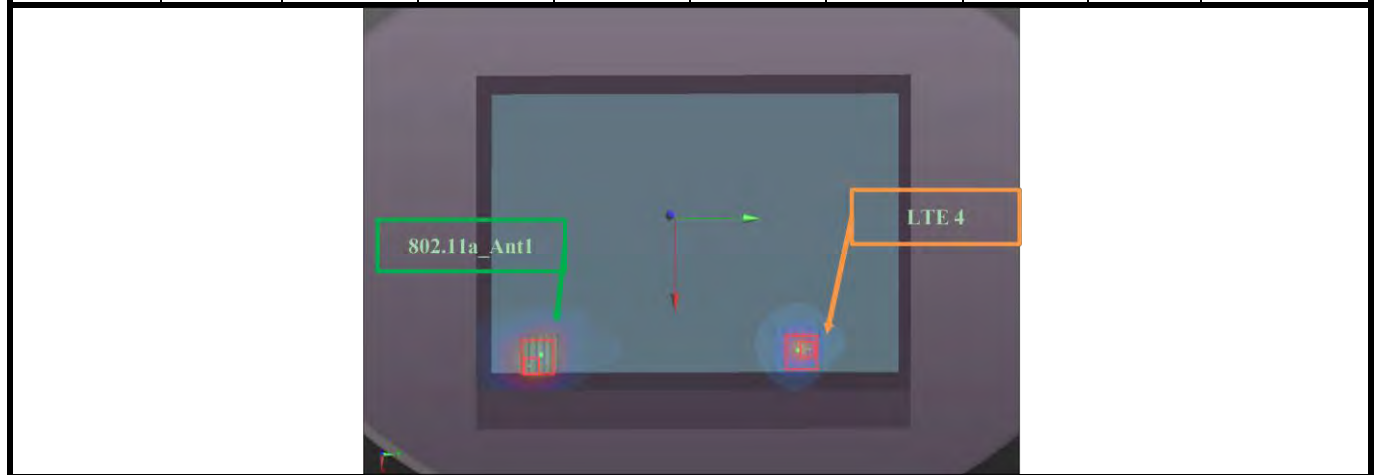
The image shows a SAR heatmap for the rear face of a device. Two specific areas are highlighted with green boxes and labels: '802.11b Ant0' and '802.11b Ant1'. The heatmap displays color-coded intensity levels, with red indicating higher SAR values. A coordinate system is visible in the bottom left corner of the heatmap.

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4 Ch20050	Body	Rear Face	0.57	75	78.9	-3.2	216.1	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4 Ch20050	Body	Rear Face	0.57	75	78.9	-3.2	189.8	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

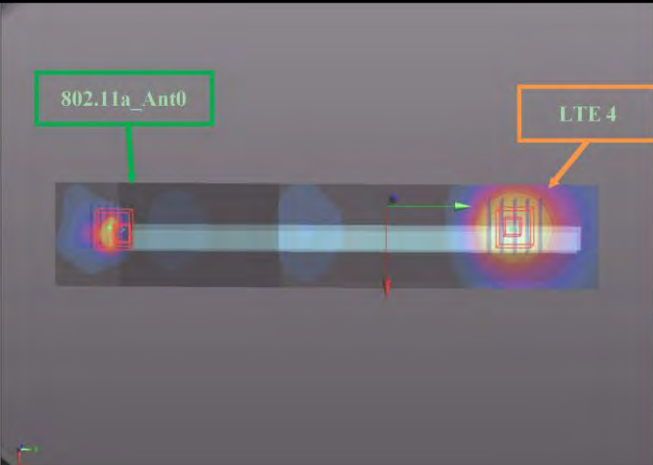


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

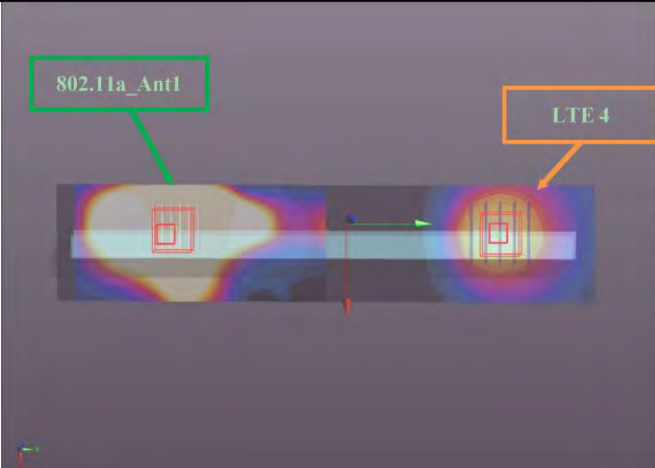


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4 Ch20175	Body	Top side	0.29	-4.5	96	-0.34	243.6	0.00	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

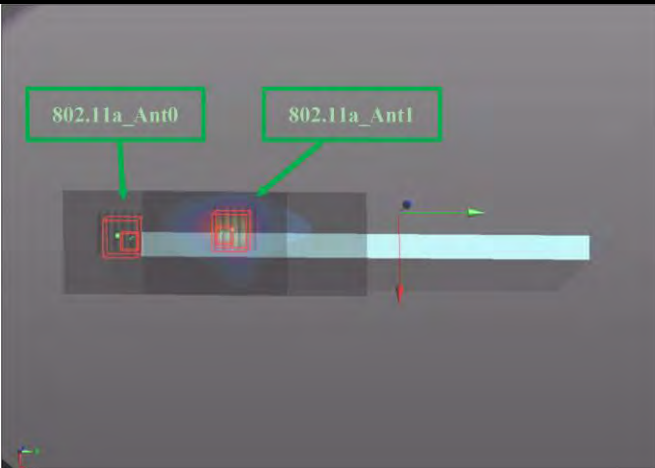


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4 Ch20175	Body	Top side	0.29	-4.5	96	-0.34	186.5	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

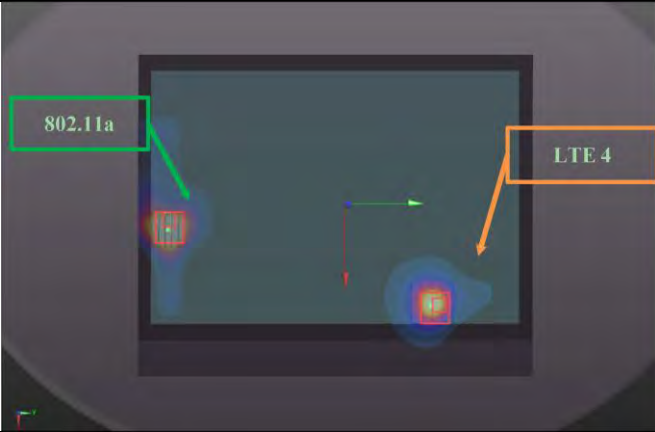


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

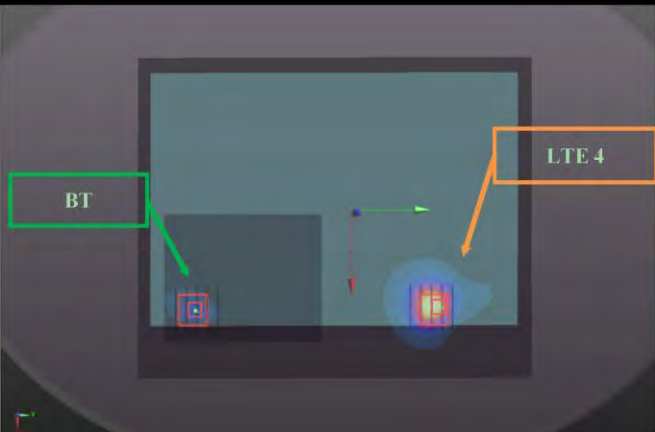


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4 Ch20050	Body	Rear Face	0.57	75	78.9	-3.2	216.1	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			

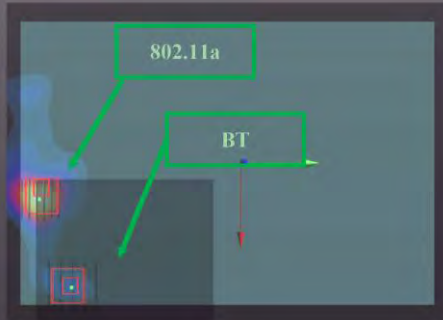


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4 Ch20050	Body	Rear Face	0.57	75	78.9	-3.2	186.8	0.00	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

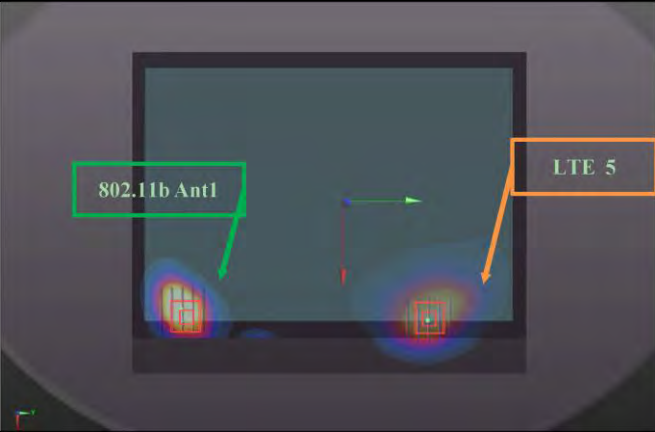


LTE5

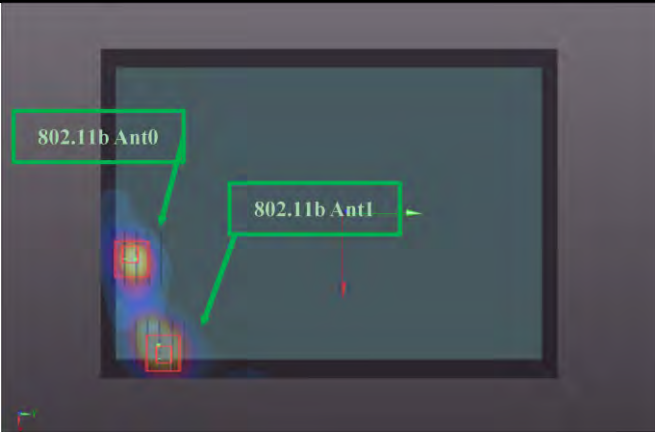
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Rear Face	0.88	85.9	76.6	-3.37	217.8	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.50	24.3	-132.3	1.51			

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Rear Face	0.88	85.9	76.6	-3.37	184.4	0.02	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			1.18	86.4	-107.7	2.55			

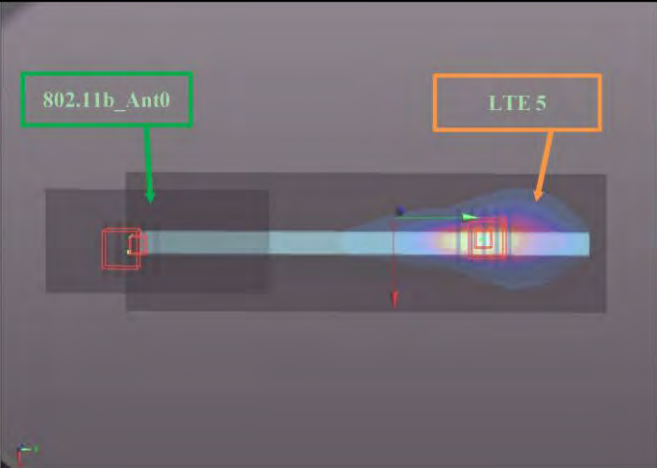


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			1.18	86.4	-107.7	2.55			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Top Side	1.07	-2	72	-0.23	213.4	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.03	22	-140	2.4			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Top Side	1.07	-2	72	-0.23	194.6	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

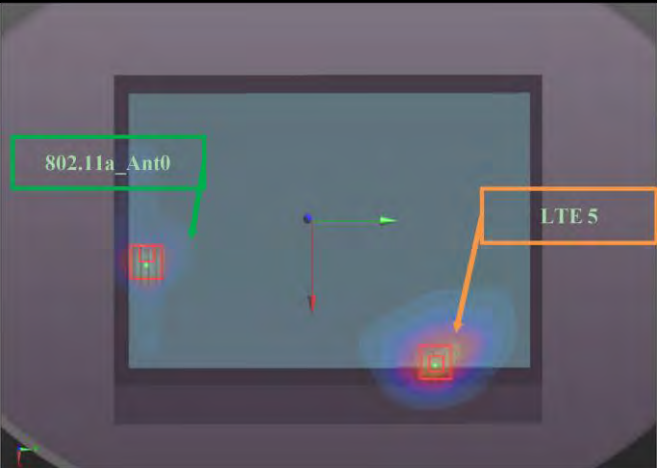


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

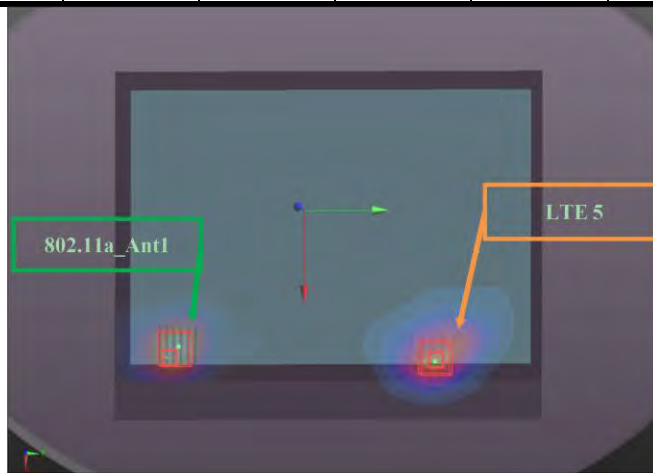


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Rear Face	0.88	85.9	76.6	-3.37	217.3	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Rear Face	0.88	85.9	76.6	-3.37	187.2	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

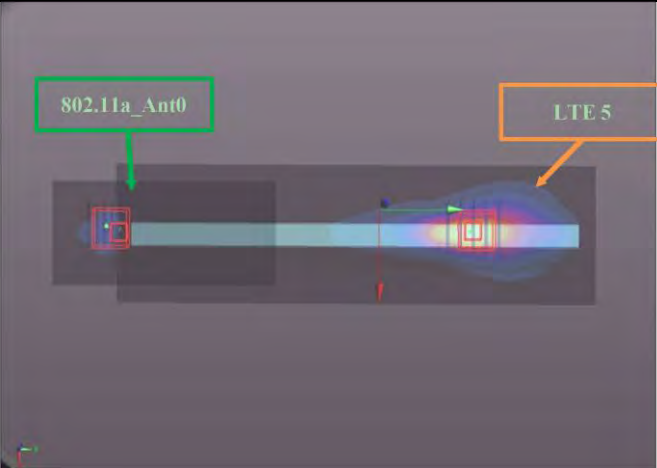


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			



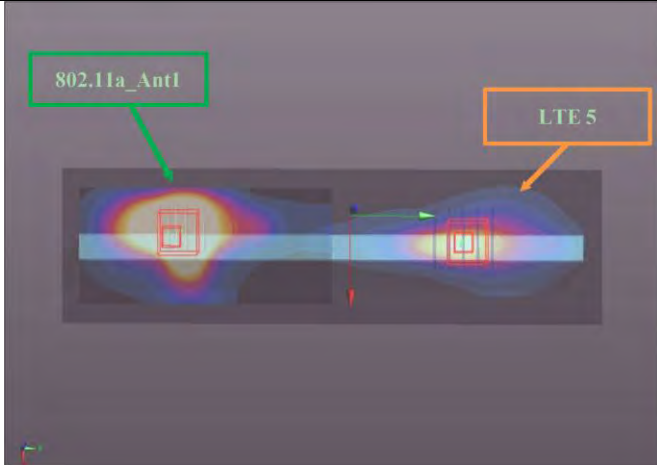
FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Top side	1.07	-2	72	-0.23	219.5	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			



The plot shows the SAR field distribution for Ant0. A green box labeled '802.11a_Ant0' points to the antenna location on the left. An orange box labeled 'LTE 5' points to the antenna location on the right. The plot displays a horizontal beam of energy between the two antennas, with a color scale from blue (low) to red (high).

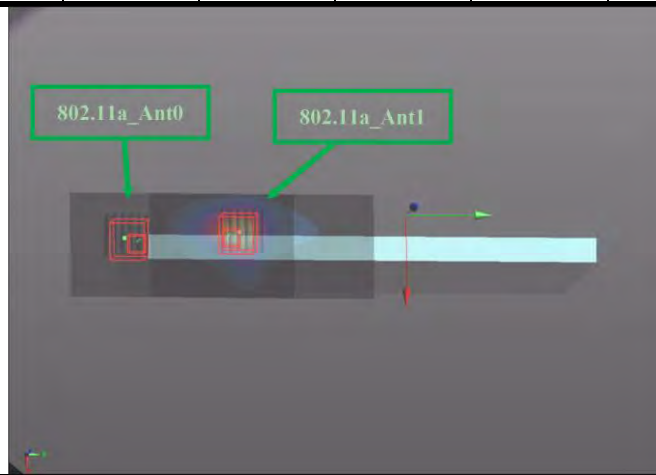
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Top side	1.07	-2	72	-0.23	162.5	0.02	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			



The plot shows the SAR field distribution for Ant1. A green box labeled '802.11a_Ant1' points to the antenna location on the left. An orange box labeled 'LTE 5' points to the antenna location on the right. The plot displays a horizontal beam of energy between the two antennas, with a color scale from blue (low) to red (high).

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

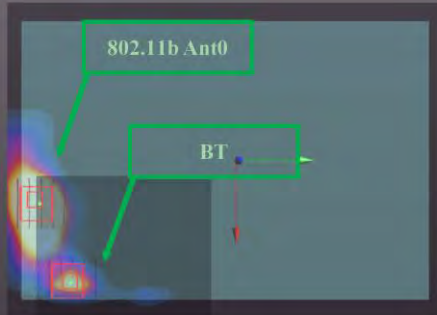


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Rear Face	0.88	85.9	76.6	-3.37	217.8	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.50	24.3	-132.3	1.51			



FCC SAR Test Report

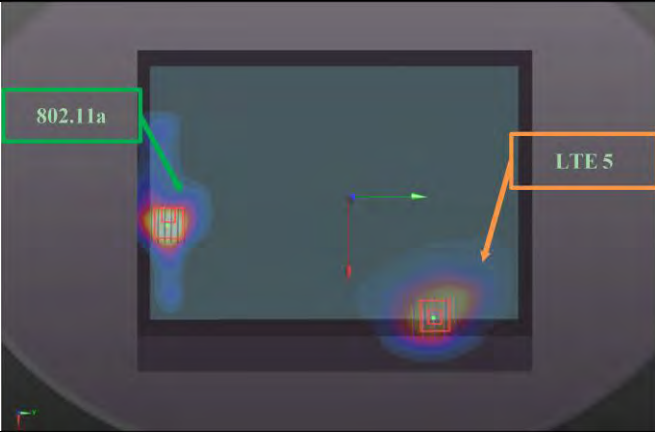
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Rear Face	0.88	85.9	76.6	-3.37	184.6	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



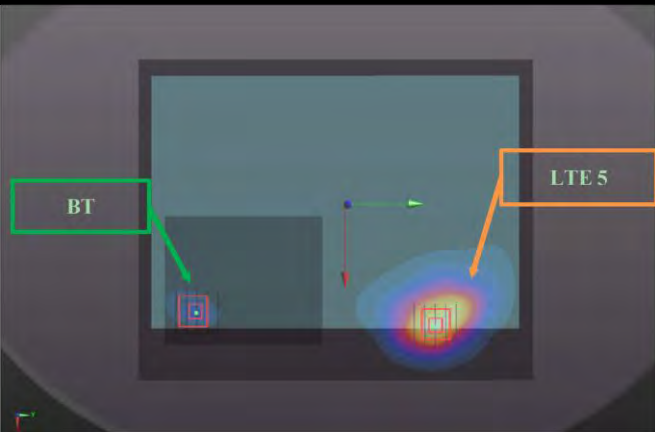
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	58.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Rear Face	0.88	85.9	76.6	-3.37	217.3	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE5 Ch20450	Body	Rear Face	0.88	85.9	76.6	-3.37	184.6	0.01	SPLSR < 0.04, Not required
Bluetooth_Ch 39			0.34	77.5	-107.6	6.22			



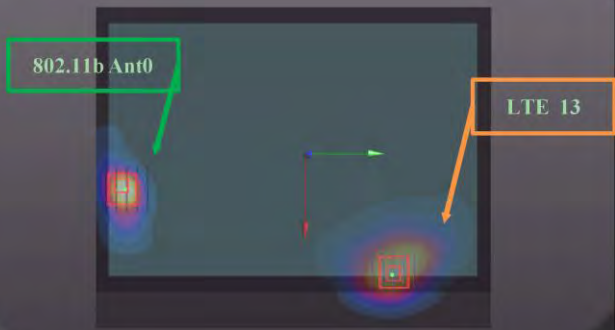
FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



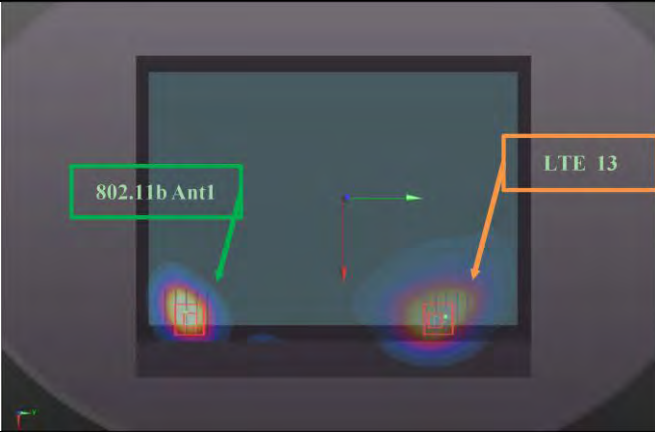
LTE 13

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Rear Face	1.09	84.1	77	-3.07	217.7	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.50	24.3	-132.3	1.51			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Rear Face	1.09	84.1	77	-3.07	184.8	0.02	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			1.18	86.4	-107.7	2.55			

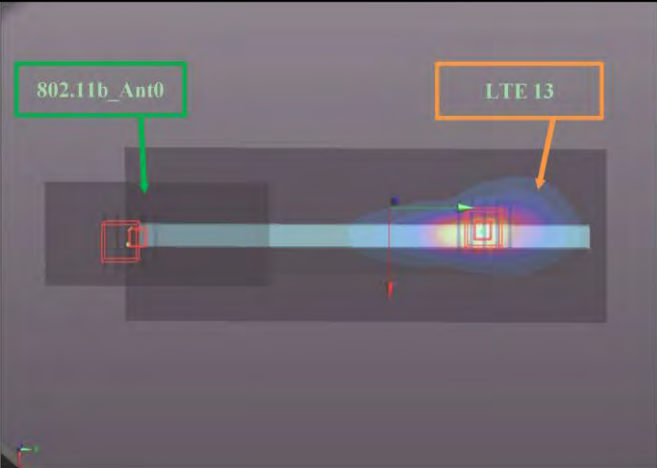


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			1.18	86.4	-107.7	2.55			



FCC SAR Test Report

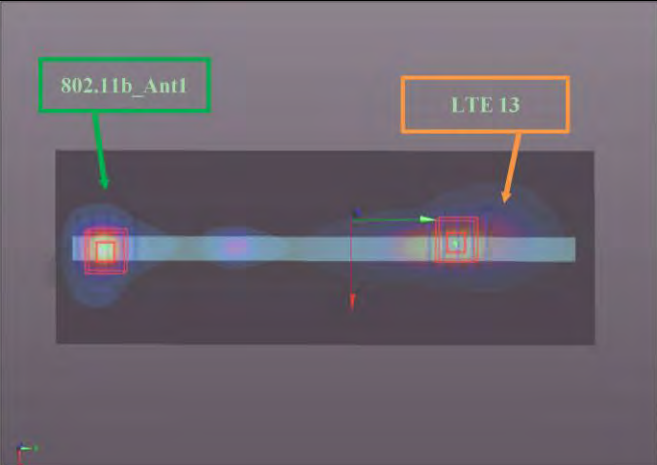
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Top side	1.06	-2.5	72.5	-4.09	214.0	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.03	22	-140	2.4			



802.11b_Ant0

LTE 13

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Top side	1.06	-2.5	72.5	-4.09	195.2	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

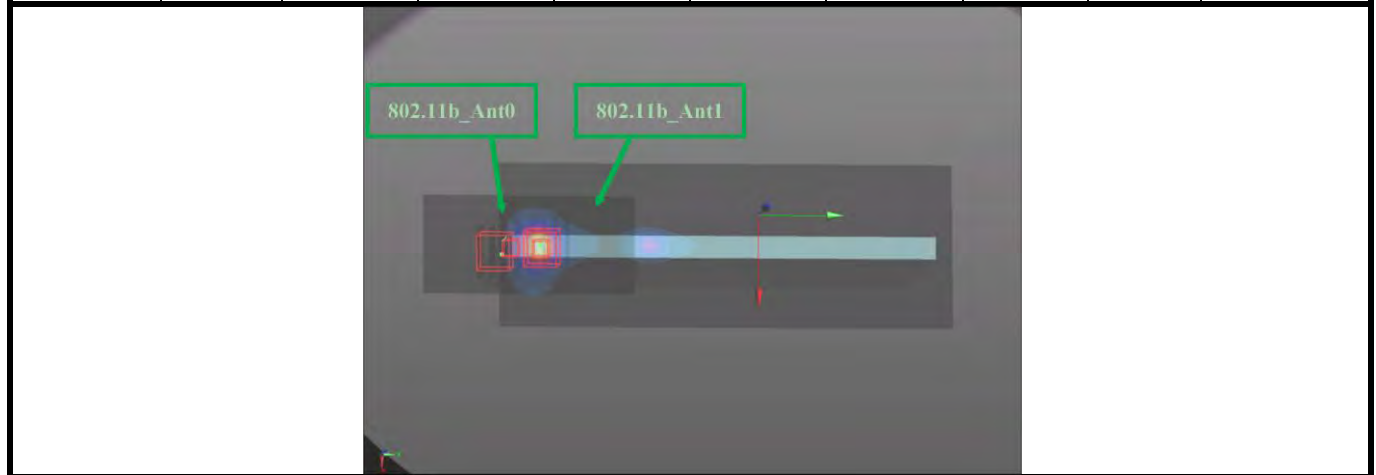


802.11b_Ant1

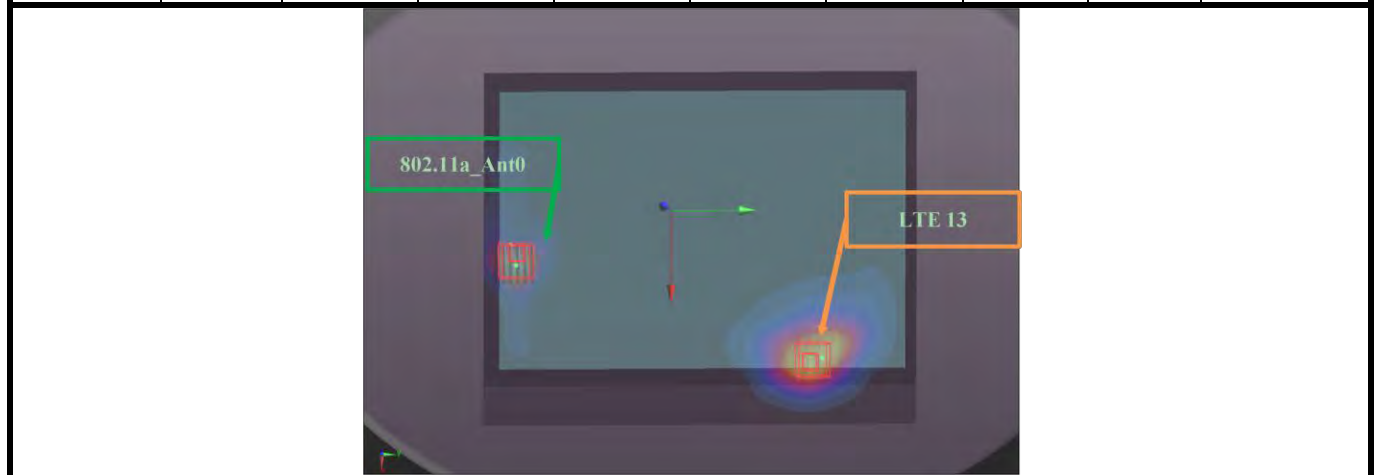
LTE 13

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

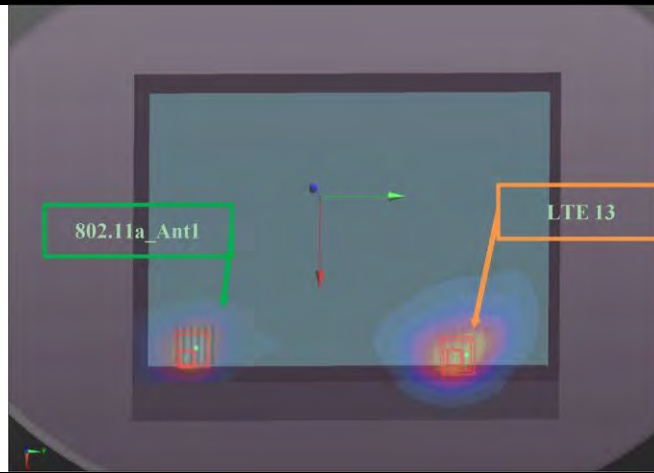


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Rear Face	1.09	84.1	77	-3.07	217.0	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Rear Face	1.09	84.1	77	-3.07	187.6	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

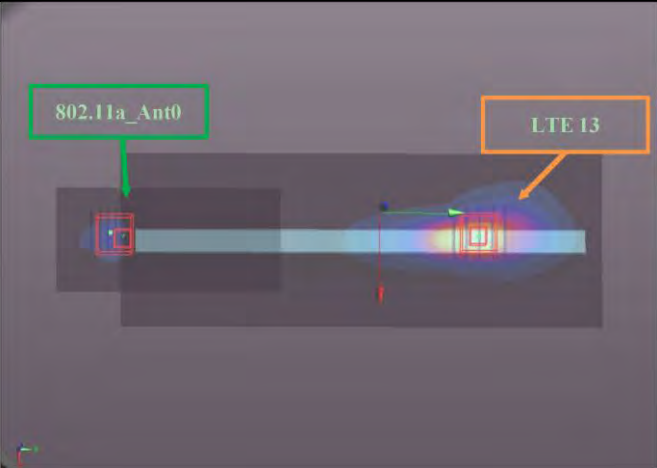


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			



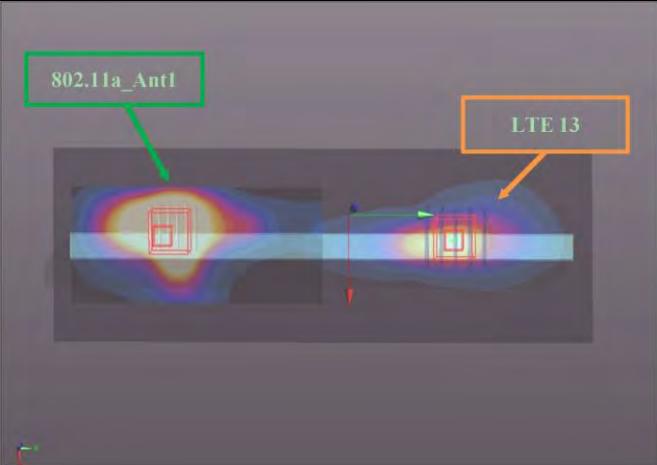
FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Top side	1.06	-2.5	72.5	-4.09	220.1	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			



The image shows a 3D visualization of the SAR field distribution for two antennas. A green box labeled '802.11a_Ant0' points to a small, localized field on the left. An orange box labeled 'LTE 13' points to a larger, more elongated field on the right. The fields are represented by color-coded isosurfaces (blue, green, yellow, red) indicating varying intensity levels. A coordinate system with x, y, and z axes is visible at the bottom left of the plot area.

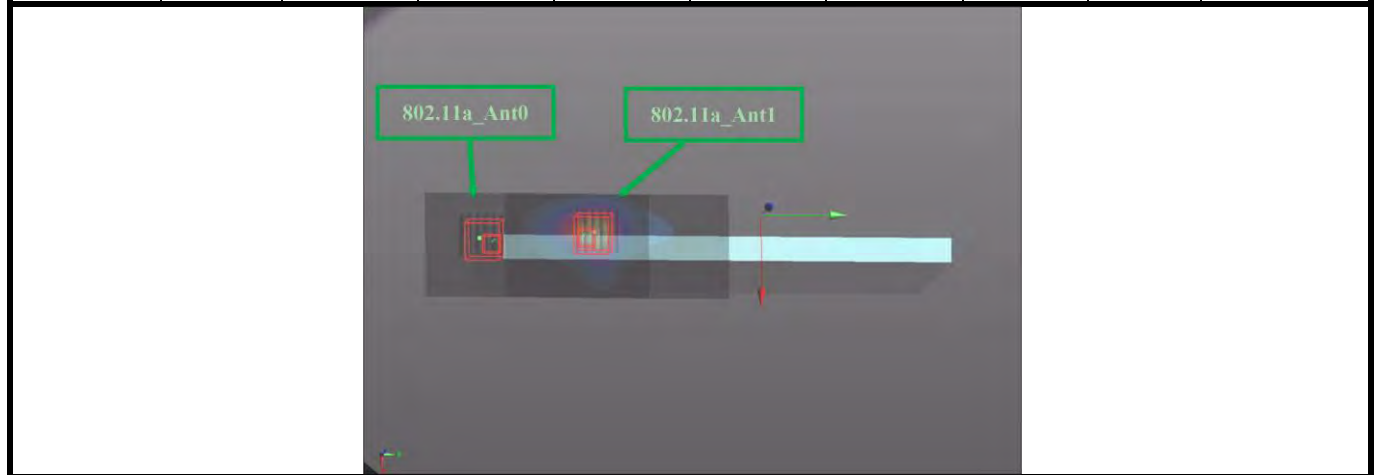
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Top side	1.06	-2.5	72.5	-4.09	163.2	0.02	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			



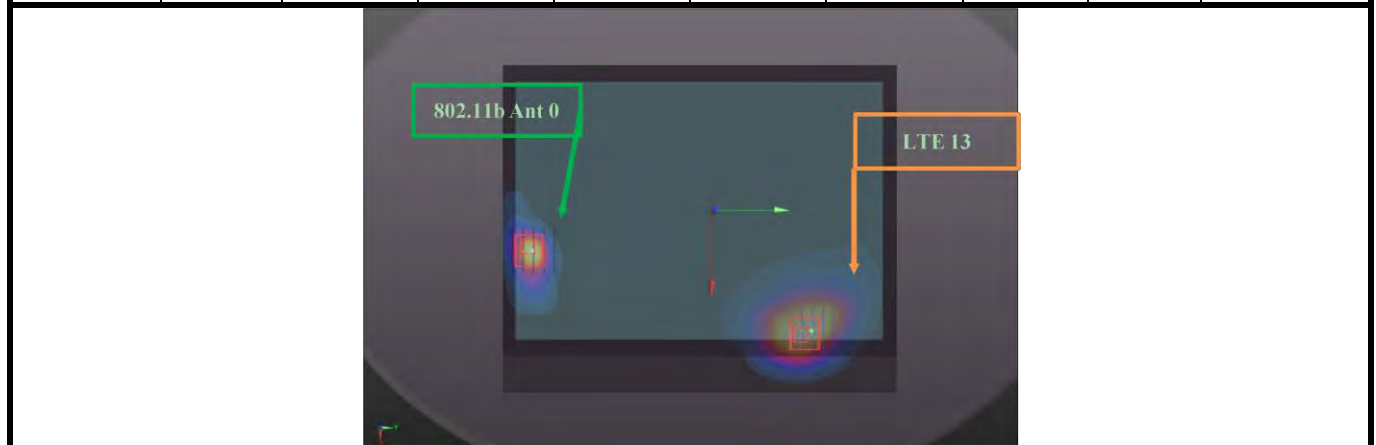
The image shows a 3D visualization of the SAR field distribution for two antennas. A green box labeled '802.11a_Ant1' points to a field on the left. An orange box labeled 'LTE 13' points to a field on the right. The fields are represented by color-coded isosurfaces. A coordinate system with x, y, and z axes is visible at the bottom left of the plot area.

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

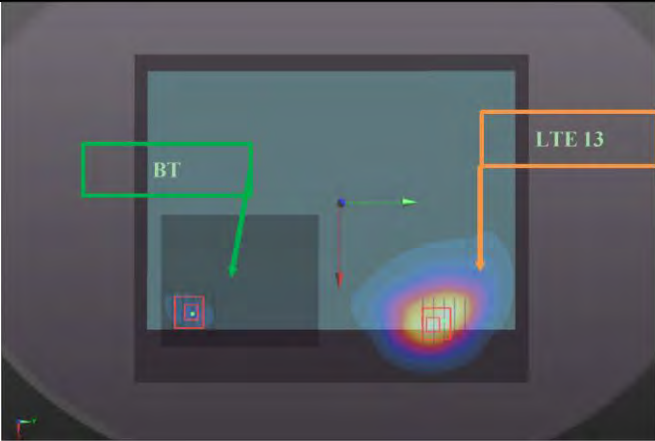


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Rear Face	1.09	84.1	77	-3.07	217.7	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.50	24.3	-132.3	1.51			

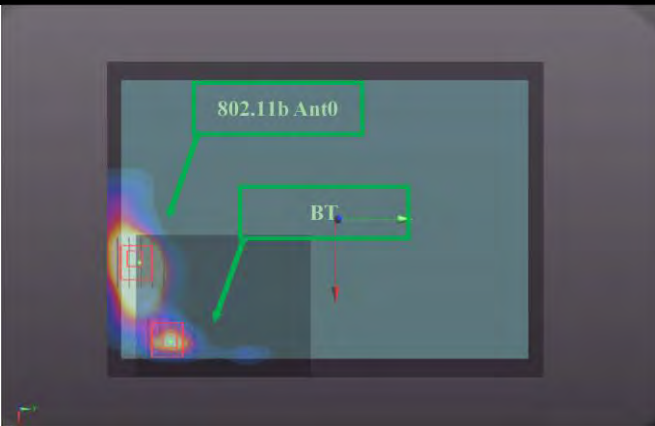


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Rear Face	1.09	84.1	77	-3.07	185.0	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

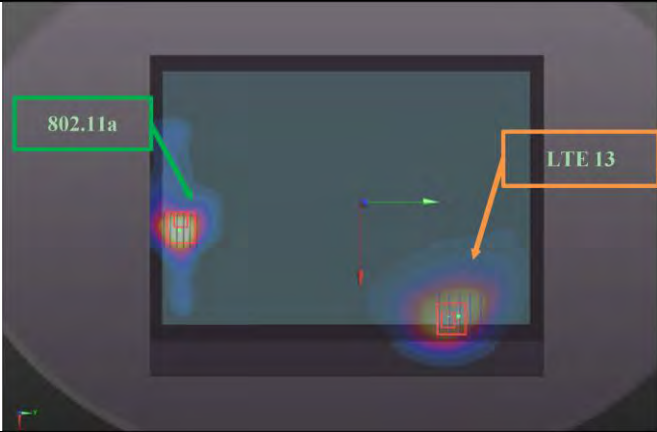


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	58.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

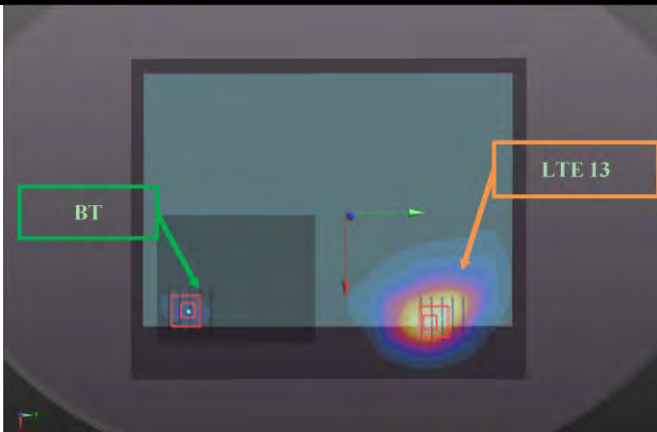


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Rear Face	1.09	84.1	77	-3.07	217.0	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 13 Ch23230	Body	Rear Face	1.09	84.1	77	-3.07	185.0	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



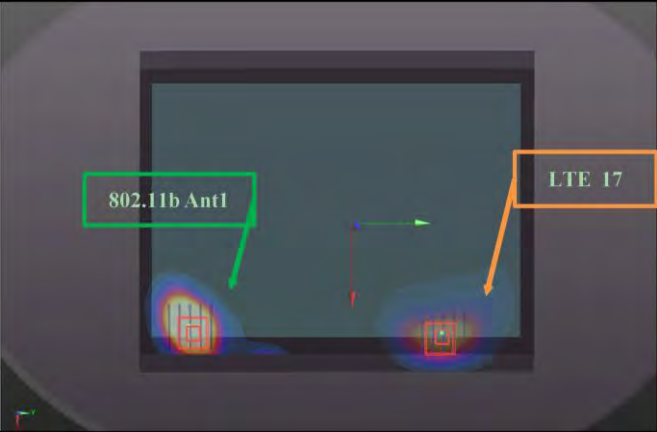
LTE 17

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23780	Body	Rear Face	0.39	86.6	81.6	1.79	222.8	0.00	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.50	24.3	-132.3	1.51			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23780	Body	Rear Face	0.39	86.6	81.6	1.79	189.3	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			1.18	86.4	-107.7	2.55			

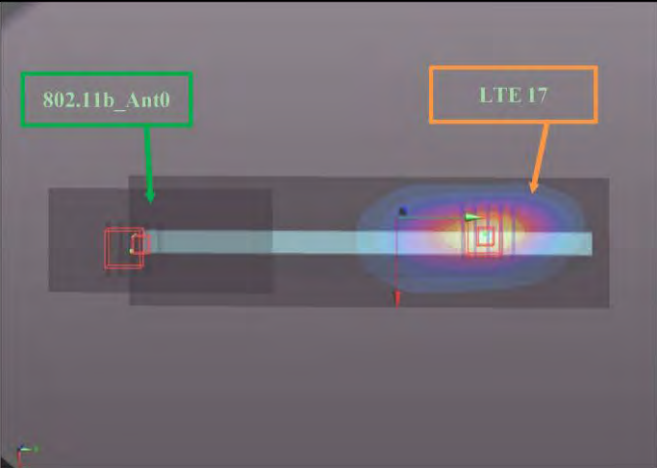


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			1.18	86.4	-107.7	2.55			



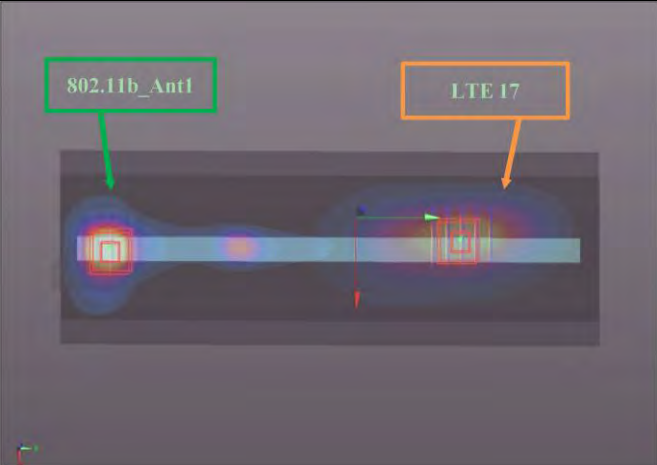
FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23800	Body	Top side	1.27	-3.4	74.1	-4.27	215.7	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.03	22	-140	2.4			



The image shows a 3D visualization of the SAR field distribution for the 802.11b Ant0. A green box labeled '802.11b_Ant0' points to a small, localized high-field region (red/yellow) on the left side of the device. An orange box labeled 'LTE 17' points to a larger, more diffuse high-field region (red/yellow) on the right side of the device. The device is shown in a top-down perspective with a coordinate system at the bottom left.

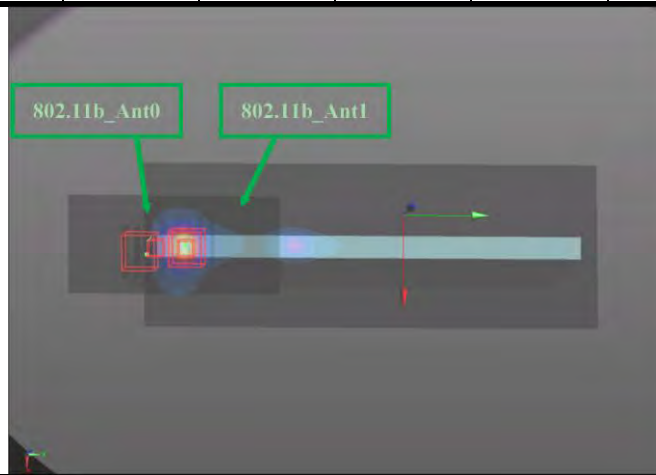
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23800	Body	Top side	1.27	-3.4	74.1	-4.27	196.8	0.02	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			



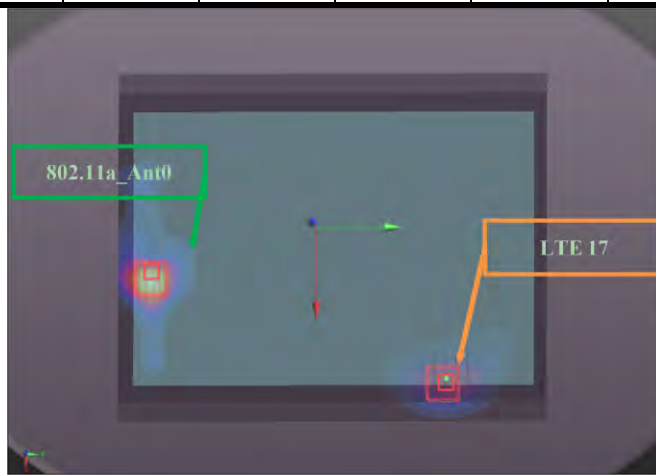
The image shows a 3D visualization of the SAR field distribution for the 802.11b Ant1. A green box labeled '802.11b_Ant1' points to a small, localized high-field region (red/yellow) on the left side of the device. An orange box labeled 'LTE 17' points to a larger, more diffuse high-field region (red/yellow) on the right side of the device. The device is shown in a top-down perspective with a coordinate system at the bottom left.

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

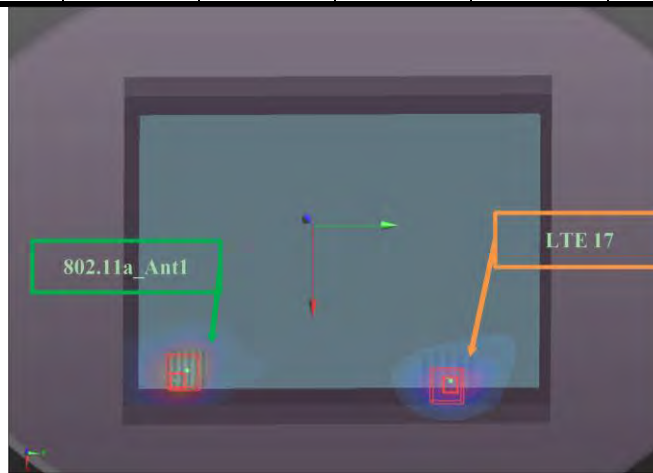


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23780	Body	Rear Face	0.39	86.6	81.6	1.79	222.1	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23780	Body	Rear Face	0.39	86.6	81.6	1.79	192.1	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

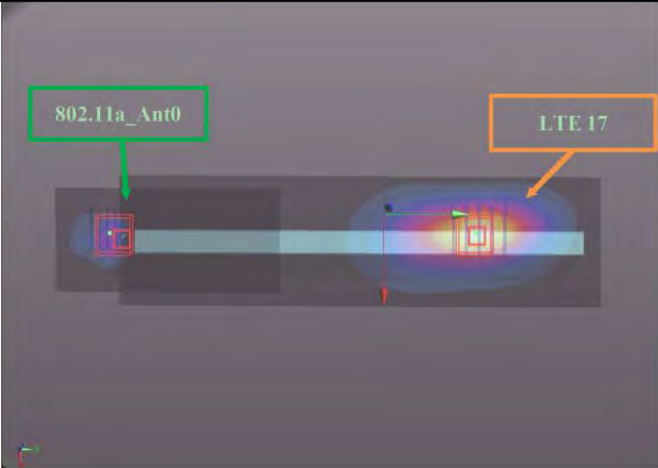


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			



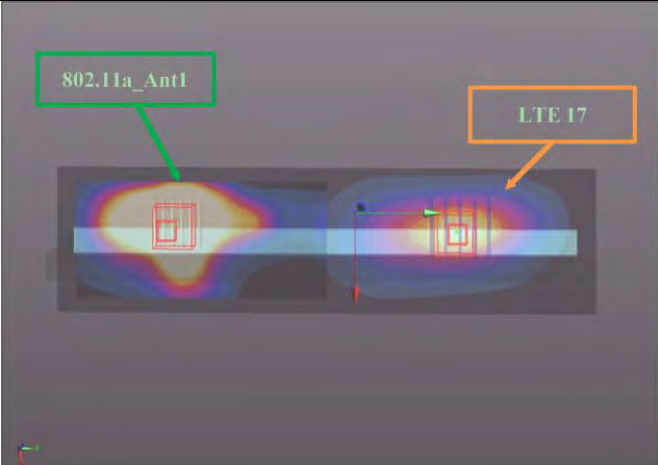
FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23800	Body	Top side	1.27	-3.4	74.1	-4.27	221.8	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			



The figure shows a 3D visualization of the SAR field distribution for two antennas. A green box labeled '802.11a_Ant0' points to a small, localized field on the left. An orange box labeled 'LTE 17' points to a larger, more complex field on the right. The fields are represented by color-coded isosurfaces on a dark background.

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23800	Body	Top side	1.27	-3.4	74.1	-4.27	164.8	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			



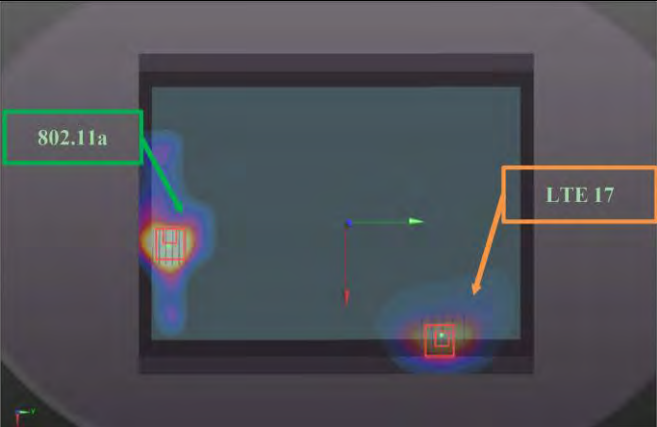
The figure shows a 3D visualization of the SAR field distribution for two antennas. A green box labeled '802.11a_Ant1' points to a field on the left. An orange box labeled 'LTE 17' points to a field on the right. The fields are represented by color-coded isosurfaces on a dark background.

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

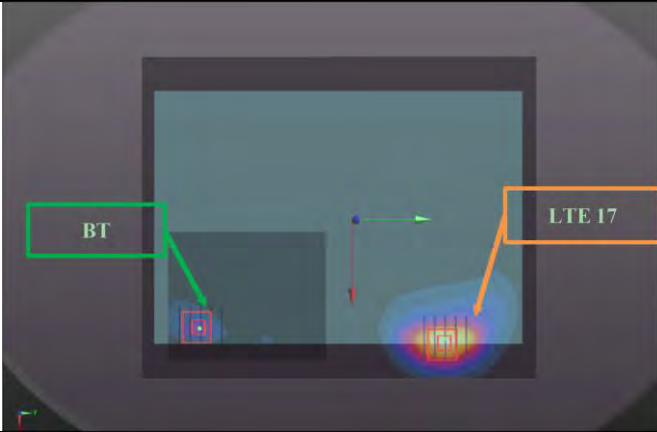


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23780	Body	Rear Face	0.39	86.6	81.6	1.79	222.1	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23780	Body	Rear Face	0.39	86.6	81.6	1.79	189.5	0.00	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

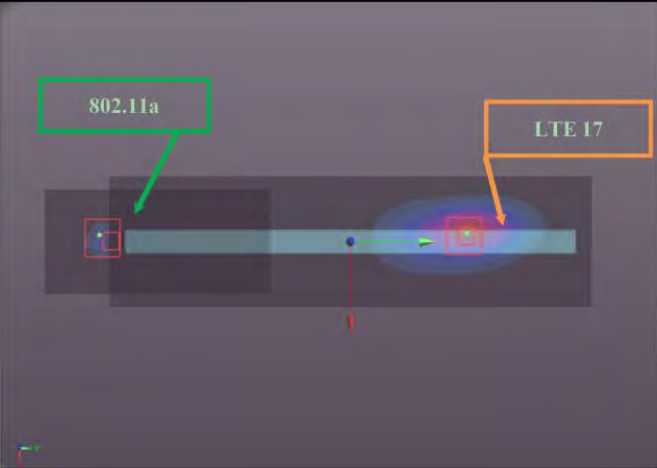


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

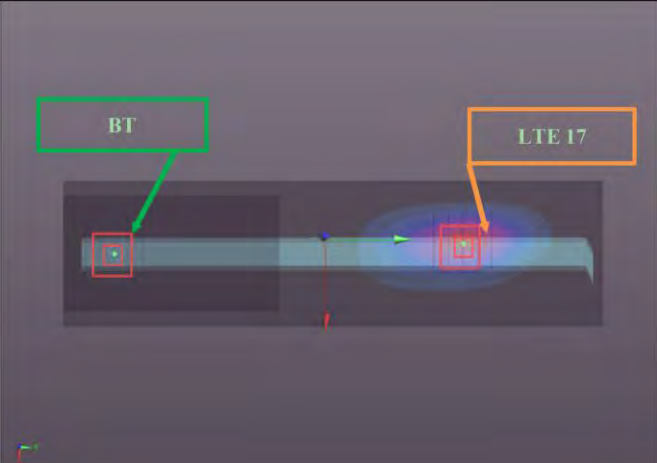


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23800	Body	Top side	1.27	-3.4	74.1	-4.27	221.8	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			

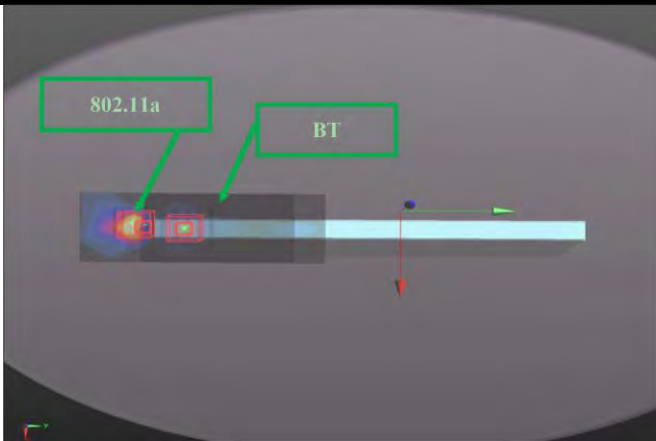


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 17 Ch23800	Body	Top side	1.27	-3.4	74.1	-4.27	197.2	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			



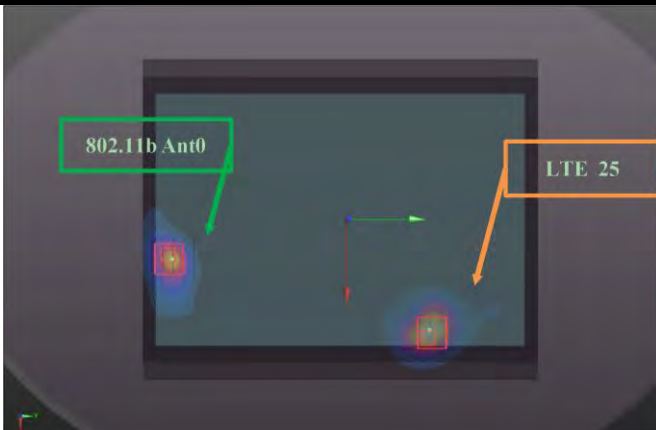
FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	25.2	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.26	0	-123.1	-2.9			



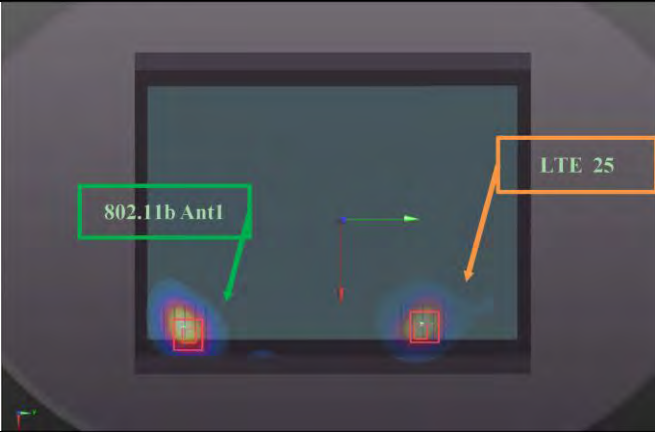
LTE 25

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Rear Face	0.76	74.3	77.1	2.46	215.3	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant0			0.50	24.3	-132.3	1.51			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Rear Face	0.76	74.3	77.1	2.46	185.2	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			

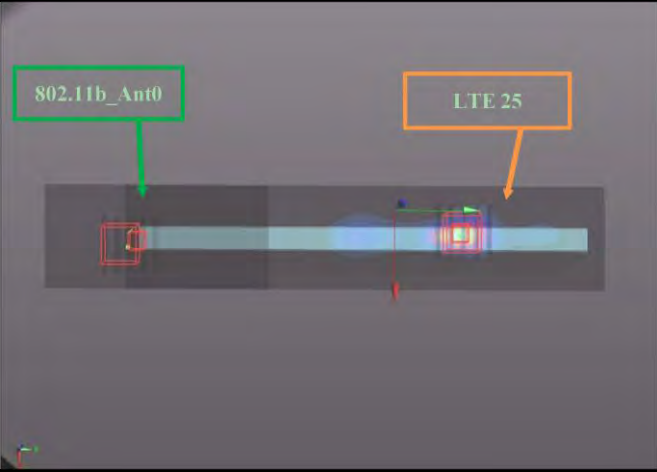


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	66.8	0.03	SPLSR < 0.04, Not required
802.11b ch11 Ant1			1.18	86.4	-107.7	2.55			



FCC SAR Test Report

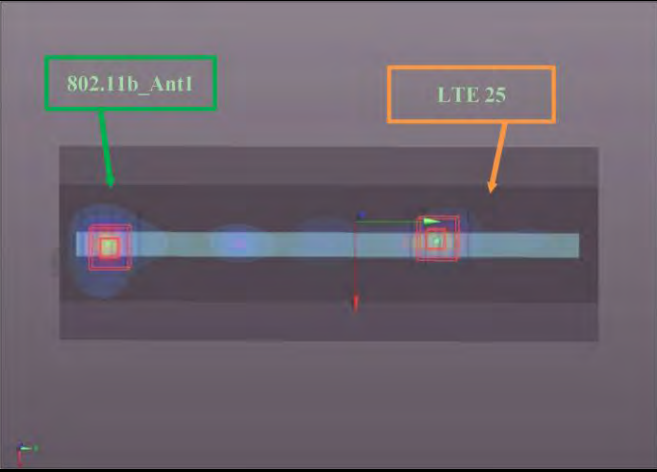
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Top side	1.04	-3.1	60	0.88	201.6	0.01	SPLSR < 0.04, Not required
802.11b Ch11 Ant0			0.03	22	-140	2.4			



802.11b_Ant0

LTE 25

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Top side	1.04	-3.1	60	0.88	182.6	0.02	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

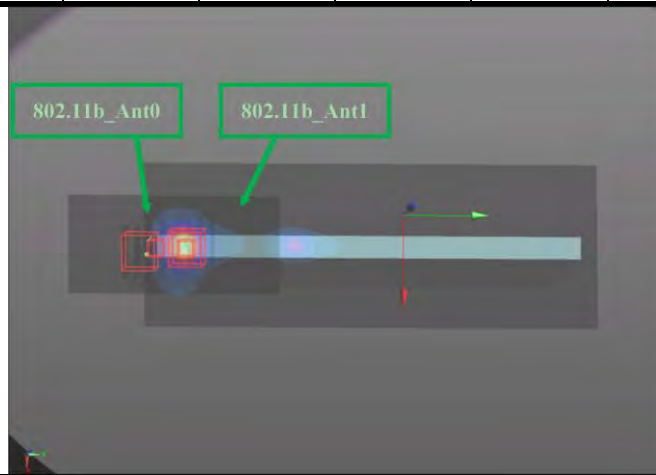


802.11b_Ant1

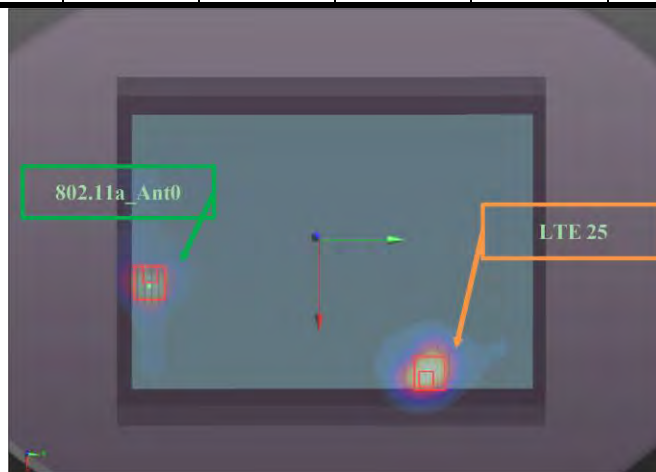
LTE 25

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b Ch11 Ant0	Body	Top Side	0.03	22	-140	2.4	25.7	0.04	SPLSR < 0.04, Not required
802.11b Ch11 Ant1			0.93	3.2	-122.5	1.1			

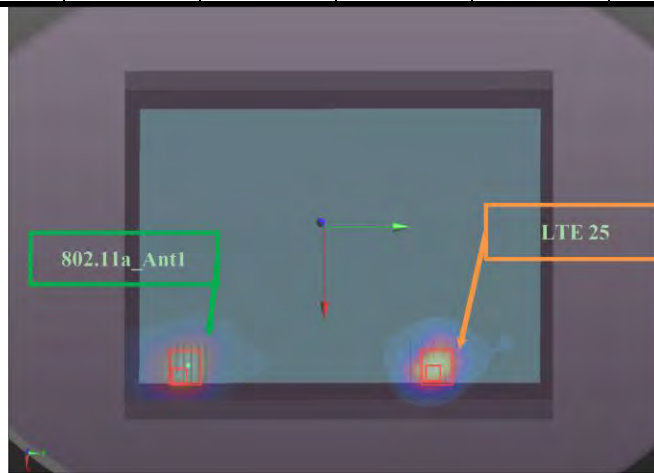


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Rear Face	0.76	74.3	77.1	2.46	214.1	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Rear Face	0.76	74.3	77.1	2.46	188.0	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			

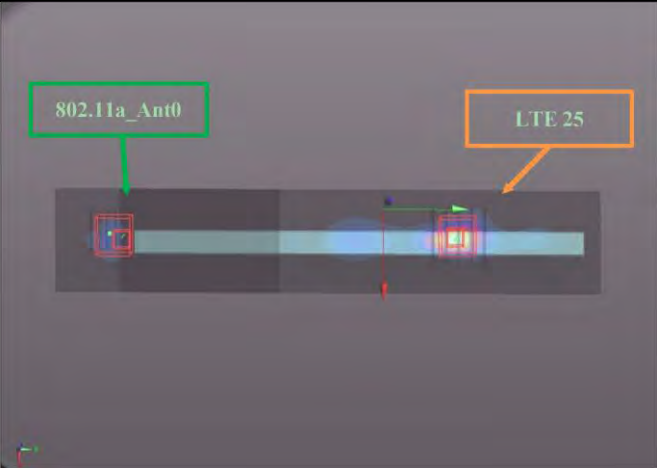


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	75.1	0.03	SPLSR < 0.04, Not required
802.11a Ch116 Ant1			0.69	86	-110.5	2.68			



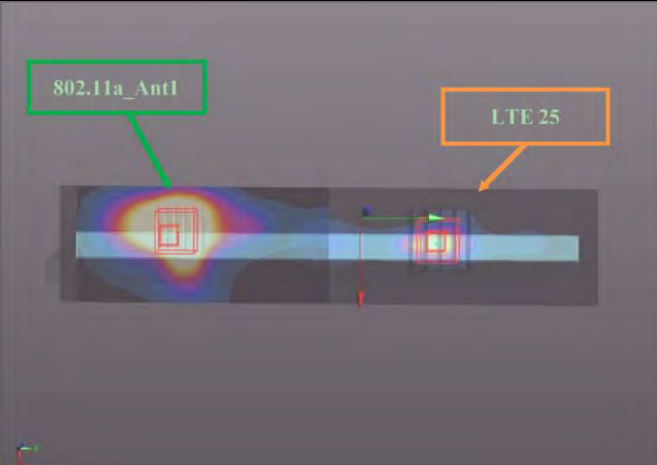
FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Top side	1.04	-3.1	60	0.88	207.5	0.01	SPLSR < 0.04, Not required
802.11a Ch104 Ant0			0.14	-0.5	-147.5	3.5			



The figure shows a 3D visualization of the SAR field distribution for the 802.11a Ant0. The plot displays the field intensity (color scale from blue to red) around the antenna. The antenna is labeled '802.11a_Ant0' in a green box. The LTE 25 field is shown in a blue box. The plot is centered on the antenna, with the x, y, and z axes visible.

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Top side	1.04	-3.1	60	0.88	150.5	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			



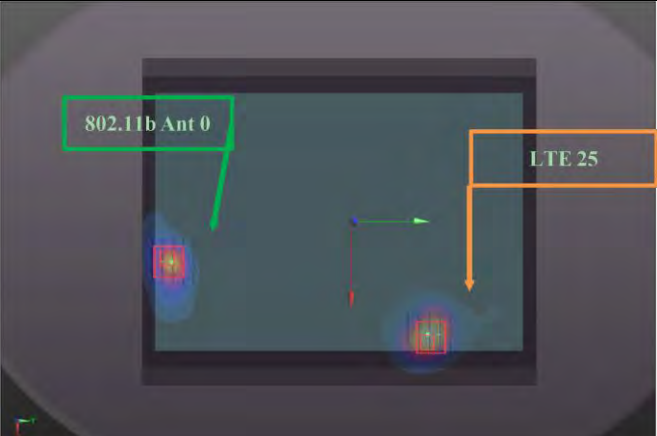
The figure shows a 3D visualization of the SAR field distribution for the 802.11a Ant1. The plot displays the field intensity (color scale from blue to red) around the antenna. The antenna is labeled '802.11a_Ant1' in a green box. The LTE 25 field is shown in a blue box. The plot is centered on the antenna, with the x, y, and z axes visible.

FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch104 Ant0	Body	Top side	0.14	-0.5	-147.5	3.5	57.1	0.03	SPLSR < 0.04, Not required
802.11a Ch104 Ant1			1.38	-4.5	-90.5	2.9			

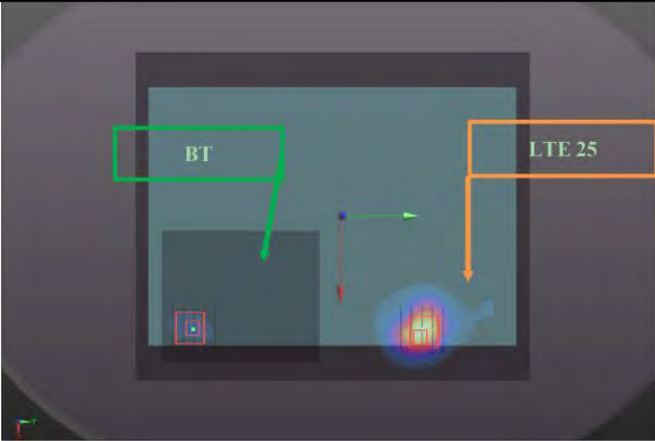


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Rear Face	0.76	74.3	77.1	2.46	215.3	0.01	SPLSR < 0.04, Not required
802.11b ch11 Ant0			0.50	24.3	-132.3	1.51			

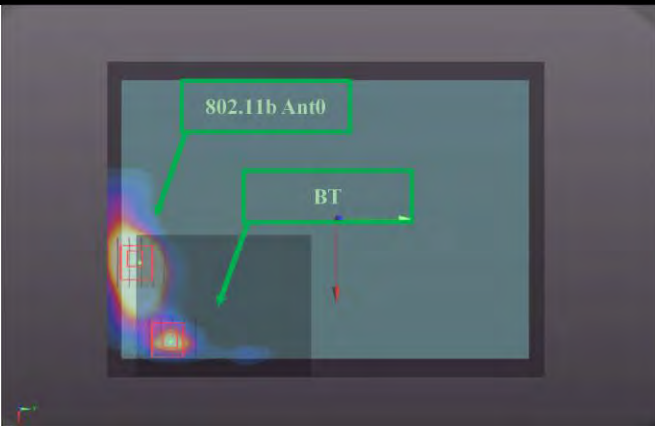


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Rear Face	0.76	74.3	77.1	2.46	184.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

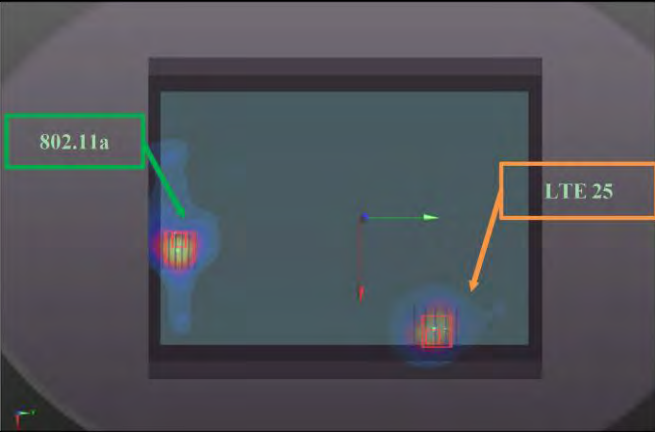


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11b ch11 Ant0	Body	Rear Face	0.50	24.3	-132.3	1.51	58.8	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

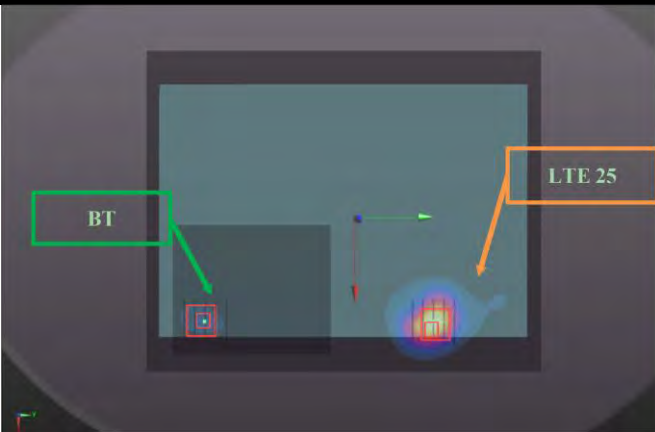


FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Rear Face	0.76	74.3	77.1	2.46	214.1	0.01	SPLSR < 0.04, Not required
802.11a Ch116 Ant0			0.98	13	-128	2.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Rear Face	0.76	74.3	77.1	2.46	214.1	0.01	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			



FCC SAR Test Report

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
802.11a Ch116 Ant0	Body	Rear Face	0.98	13	-128	2.03	67.8	0.02	SPLSR < 0.04, Not required
Bluetooth Ch39			0.34	77.5	-107.6	6.22			

Test Engineer : Raymond Wu, and Smith Chen

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1013	Aug. 24, 2015	1 Year
System Validation Dipole	SPEAG	D835V2	4d121	Aug. 24, 2015	1 Year
System Validation Dipole	SPEAG	D1750V2	1023	Jun. 23, 2016	1 Year
System Validation Dipole	SPEAG	D1750V2	1055	Aug. 20, 2015	1 Year
System Validation Dipole	SPEAG	D1900V2	5d036	Jan. 22, 2016	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7350	Dec. 17, 2015	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3864	Jul. 25, 2016	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1305	Dec. 11, 2015	1 Year
Data Acquisition Electronics	SPEAG	DAE3	393	Jan. 12, 2016	1 Year
Radio Communication Analyzer	Anritsu	MT8820C	6201381727	May. 04, 2016	1 Year
ENA Series Network Analyzer	Agilent	E5071C	MY46214281	Jun. 13, 2016	1 Year
Spectrum Analyzer	R&S	FSL6	102006	Mar. 25, 2016	1 Year
MXG Analog Signal Generator	Agilent	N5181A	MY50143868	Jul. 07, 2016	1 Year
Power Meter	Anritsu	ML2495A	1218009	Jul. 06, 2016	1 Year
Power Sensor	Anritsu	MA2411B	1207252	Jul. 06, 2016	1 Year
Thermometer	YFE	YF-160A	150601220	May. 04, 2016	1 Year

FCC SAR Test Report

6. Measurement Uncertainty

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

Uncertainty budget for frequency range 300 MHz to 3 GHz

FCC SAR Test Report

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

Uncertainty budget for frequency range 3 GHz to 6 GHz

FCC SAR Test Report

7. Information on the Testing Laboratories

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

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

Taiwan HwaYa EMC/RF/Safety/Telecom Lab:

Add: No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil., Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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Fax: 886-3-327-0892

Taiwan LinKo EMC/RF Lab:

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Tel: 886-2-2605-2180

Fax: 886-2-2605-1924

Taiwan HsinChu EMC/RF Lab:

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Tel: 886-3-593-5343

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Web Site: www.adt.com.tw

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

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Appendix A. SAR Plots of System Verification

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

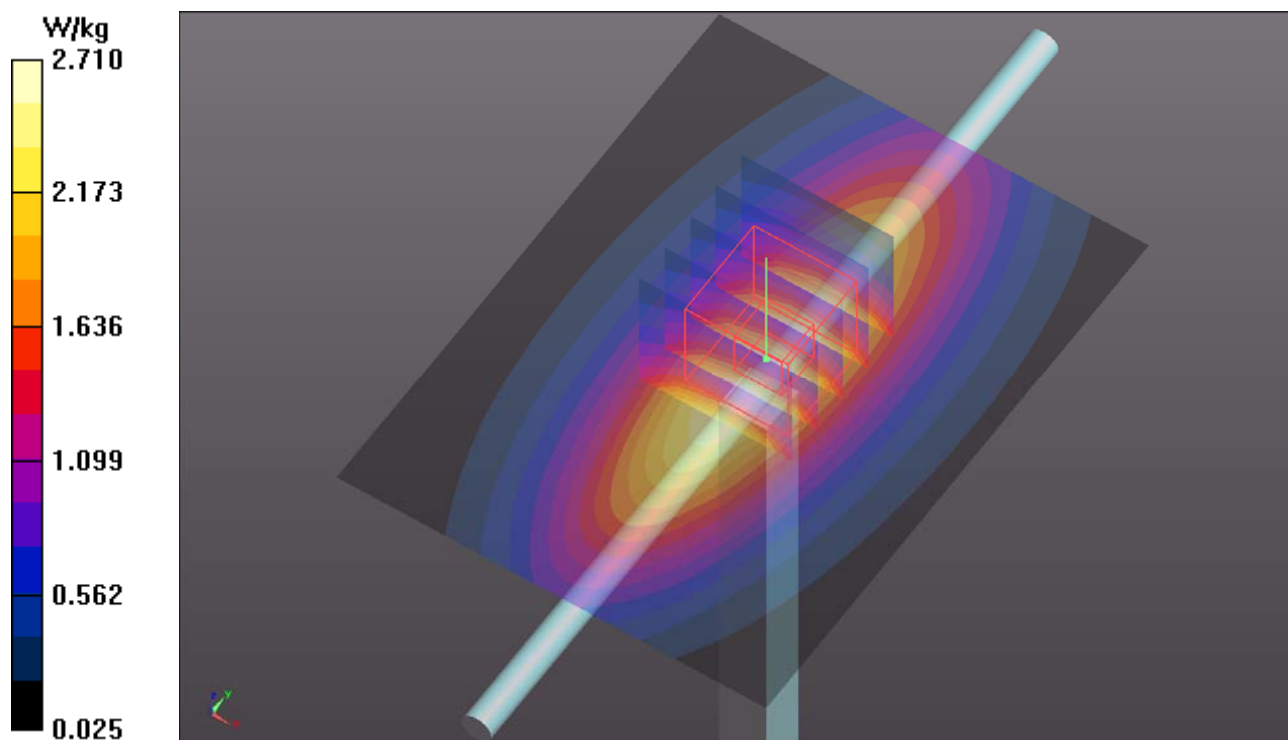
System Check_B750_160817**DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

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

Medium: B06T09N1_0817 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.967 \text{ S/m}$; $\epsilon_r = 56.078$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 23.9°C ; Liquid Temperature : 23.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.11, 10.11, 10.11); Calibrated: 2016/07/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 2.71 W/kg **Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 52.83 V/m ; Power Drift = -0.15 dB Peak SAR (extrapolated) = 3.19 W/kg **SAR(1 g) = 2.16 W/kg ; SAR(10 g) = 1.43 W/kg** Maximum value of SAR (measured) = 2.72 W/kg 

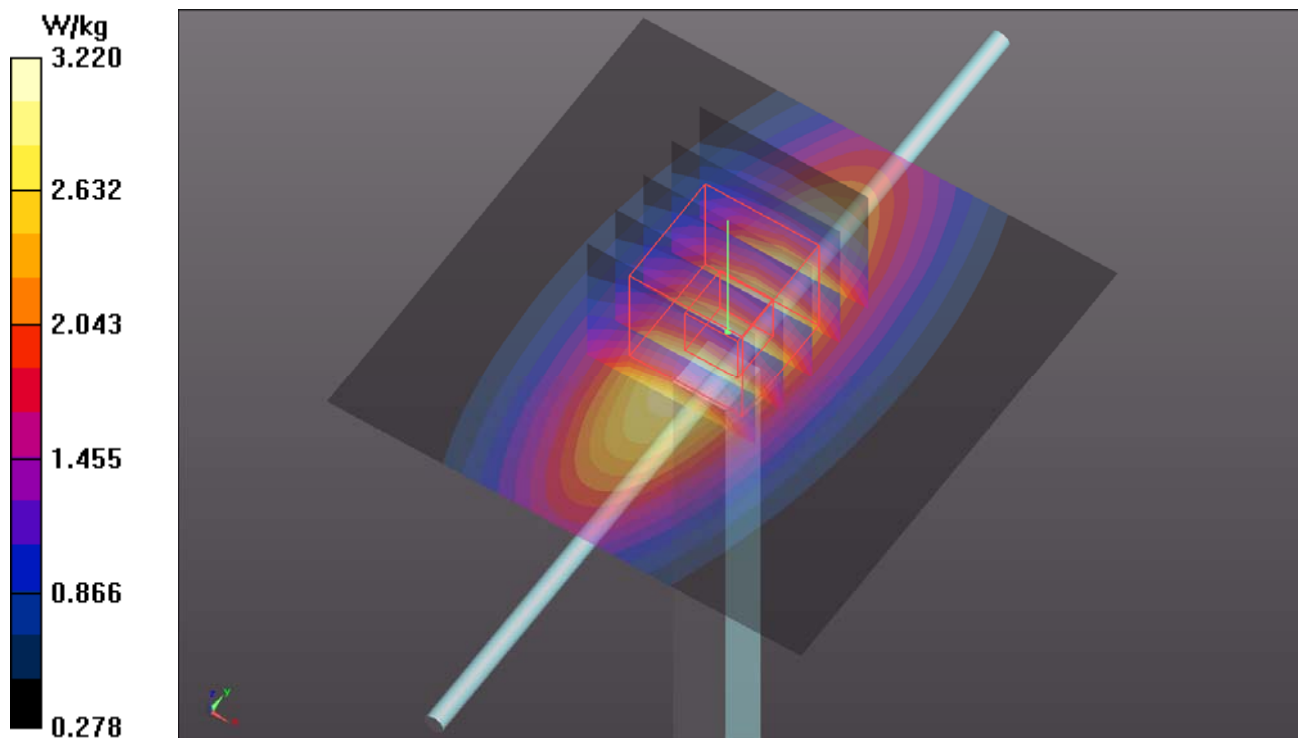
System Check_B835_160812**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

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

Medium: B07T10N3_0812 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1.004 \text{ S/m}$; $\epsilon_r = 54.414$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 23.7°C ; Liquid Temperature : 23.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.08, 10.08, 10.08); Calibrated: 2016/07/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 3.22 W/kg **Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 53.16 V/m ; Power Drift = -0.05 dB Peak SAR (extrapolated) = 3.62 W/kg **SAR(1 g) = 2.42 W/kg ; SAR(10 g) = 1.59 W/kg** Maximum value of SAR (measured) = 3.22 W/kg 

System Check_B1750_160809**DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055**

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

Medium: B16T20N2_0809 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 52.022$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7350; ConvF(8.3, 8.3, 8.3); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

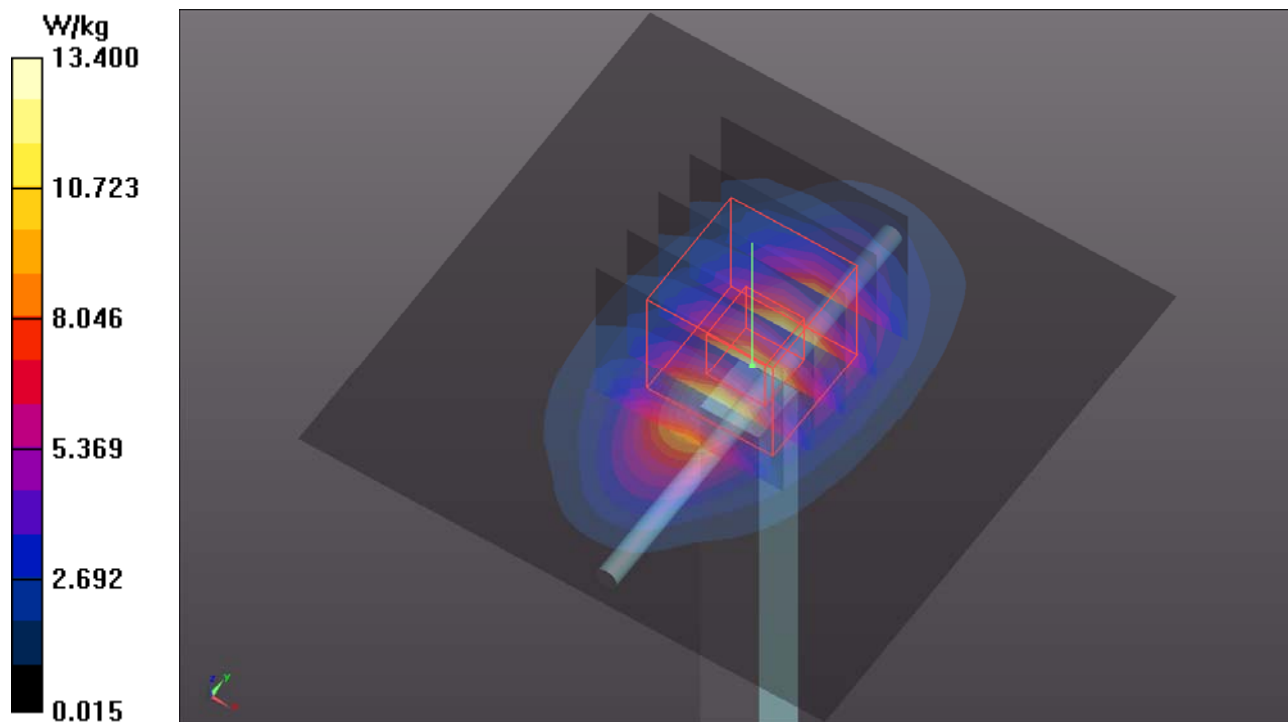
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 99.06 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 8.82 W/kg; SAR(10 g) = 4.72 W/kg

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



System Check_B1900_160809**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

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

Medium: B16T20N2_0809 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.582$ S/m; $\epsilon_r = 51.601$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7350; ConvF(8.04, 8.04, 8.04); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

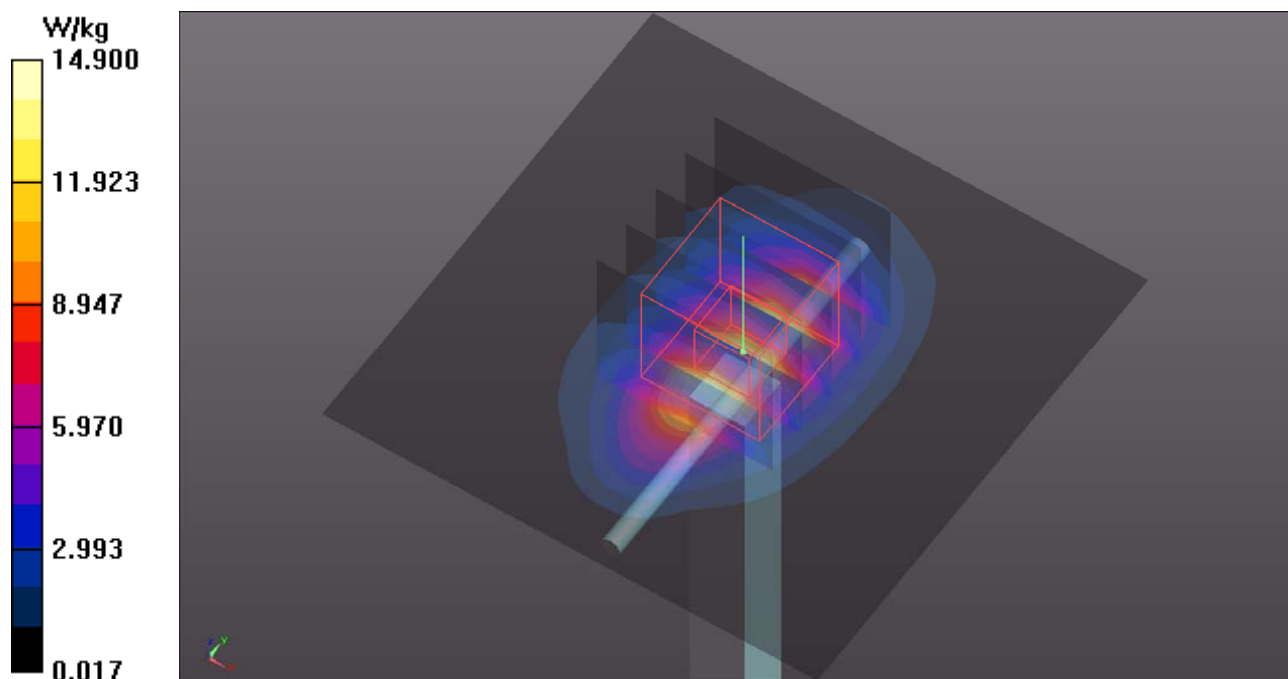
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 99.83 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.68 W/kg; SAR(10 g) = 5.03 W/kg

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



Appendix B. SAR Plots of SAR Measurement

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

P01 GSM850_GPRS10_Rear Face_0cm_Ch128_Sensor_w**DUT: 160721C25**

Communication System: GPRS10; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium: B07T10N3_0812 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.994$ S/m; $\epsilon_r = 54.522$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.08, 10.08, 10.08); Calibrated: 2016/07/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (151x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.41 W/kg

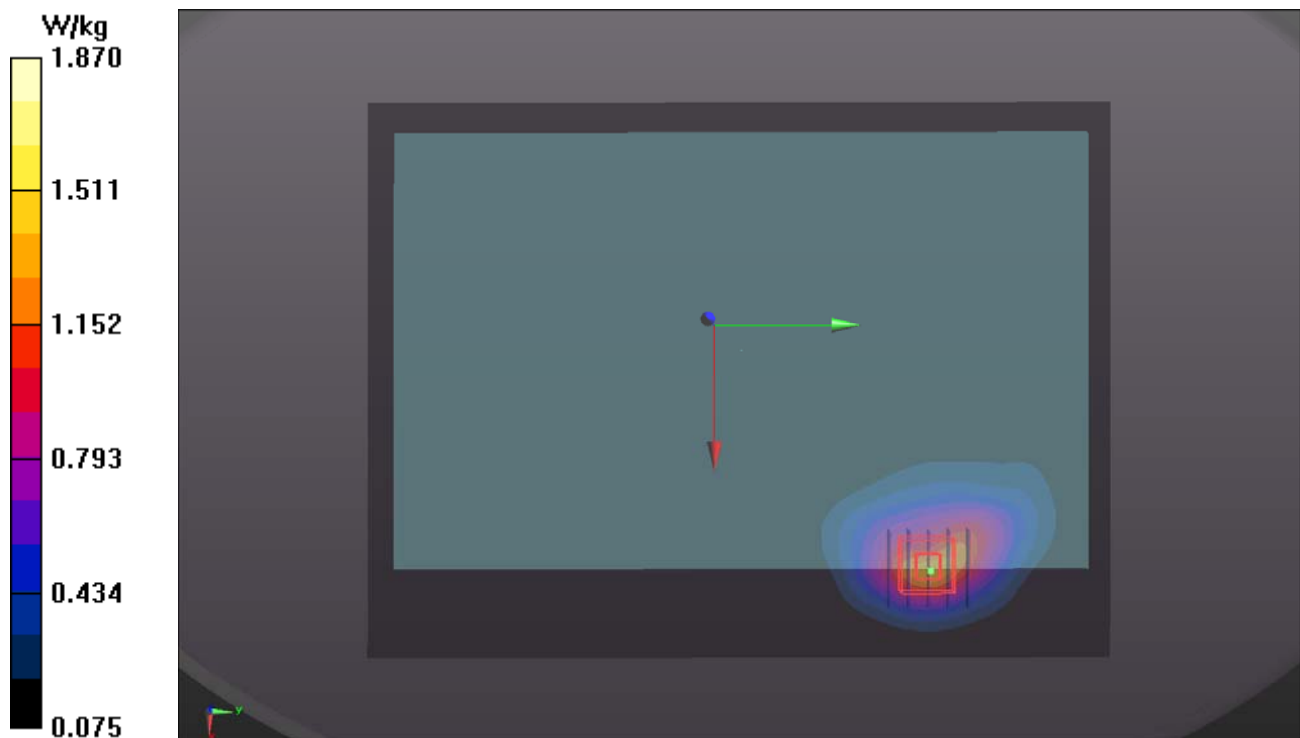
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.816 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.752 W/kg

Maximum value of SAR (measured) = 1.87 W/kg



P02 GSM1900_GPRS10_Top Side_0cm_Ch512_Sensor_w**DUT: 160721C25**

Communication System: GPRS10; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: B16T20N2_0818 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.536$ S/m; $\epsilon_r = 54.506$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.9 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.14, 8.14, 8.14); Calibrated: 2016/07/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: ELI Phantom_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (71x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.07 W/kg

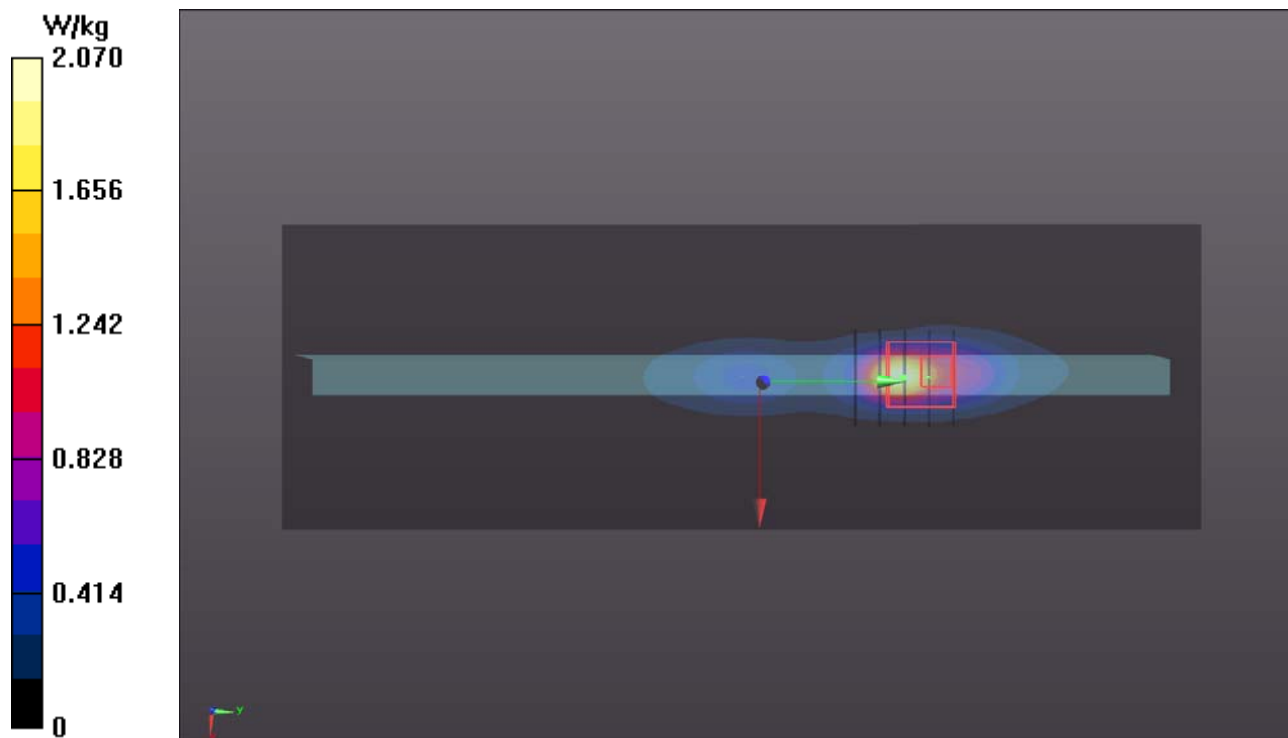
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.163 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.87 W/kg

SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.513 W/kg

Maximum value of SAR (measured) = 2.18 W/kg



P03 WCDMA II_RMC12.2K_Top Side_0cm_Ch9400_Sensor_w**DUT: 160721C25**

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

Medium: B16T20N2_0818 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.558$ S/m; $\epsilon_r = 54.571$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.14, 8.14, 8.14); Calibrated: 2016/07/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: ELI Phantom_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (51x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.511 W/kg

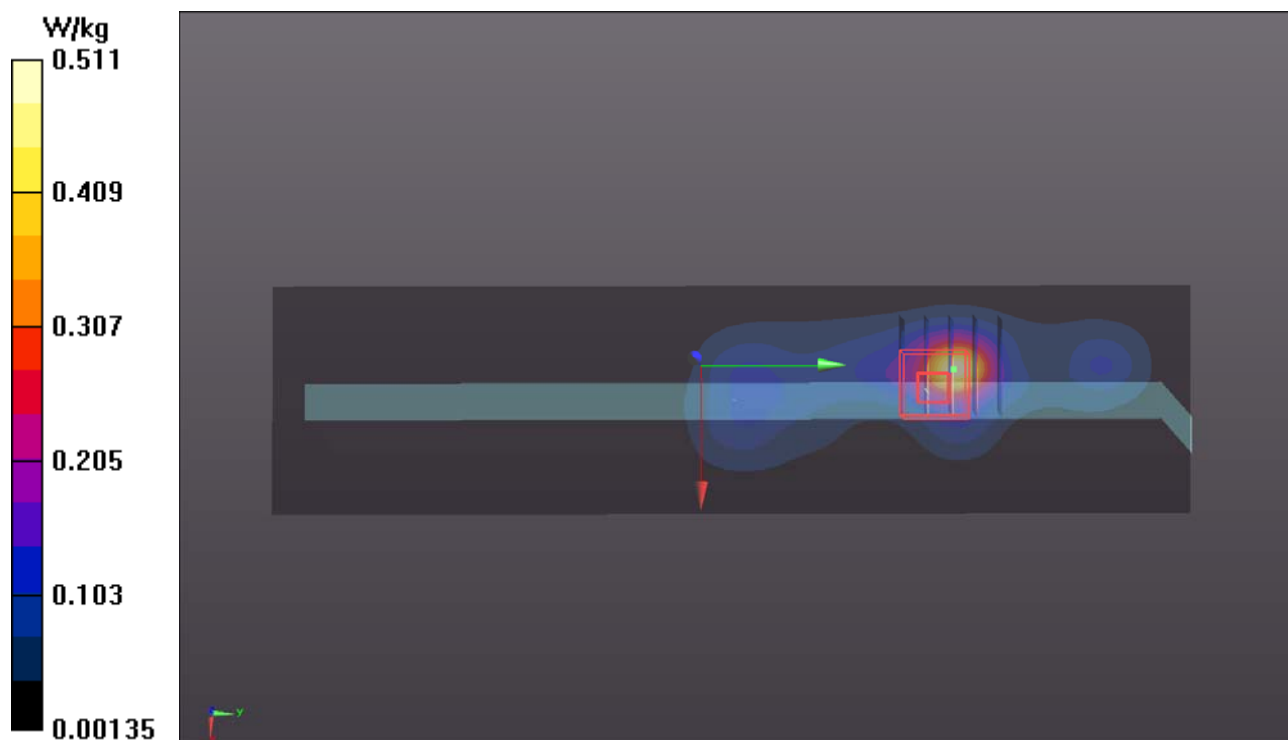
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.206 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 0.845 W/kg; SAR(10 g) = 0.366 W/kg

Maximum value of SAR (measured) = 1.46 W/kg



P04 WCDMA IV_RMC12.2K_Rear Face_0cm_Ch1312_Sensor_w**DUT: 160721C25**

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

Medium: B16T20N2_0809 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.396$ S/m; $\epsilon_r = 52.147$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7350; ConvF(8.3, 8.3, 8.3); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (151x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.981 W/kg

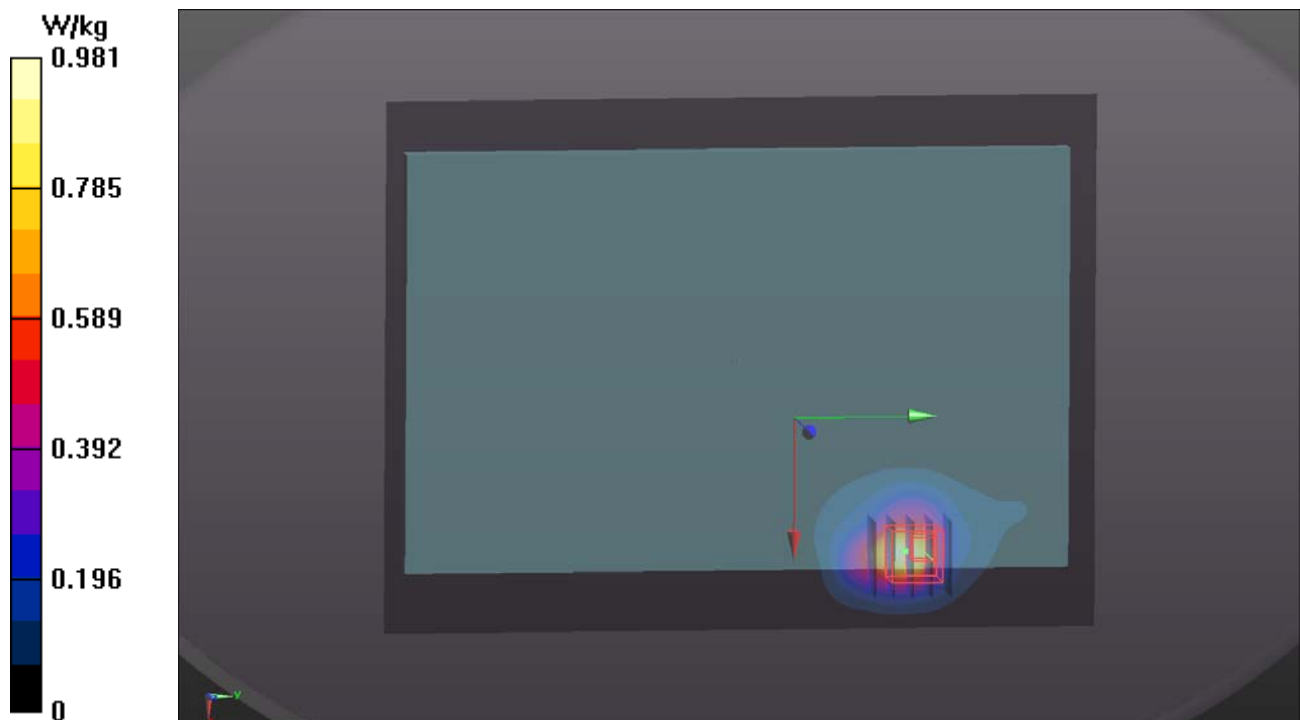
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.8360 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.335 W/kg

Maximum value of SAR (measured) = 1.09 W/kg



P05 WCDMA V_RMC12.2K_Top Side_0cm_Ch4132_Sensor_w_o**DUT: 160721C25**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: B07T10N2_0810 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.984$ S/m; $\epsilon_r = 54.705$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.83, 9.83, 9.83); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (61x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.36 W/kg

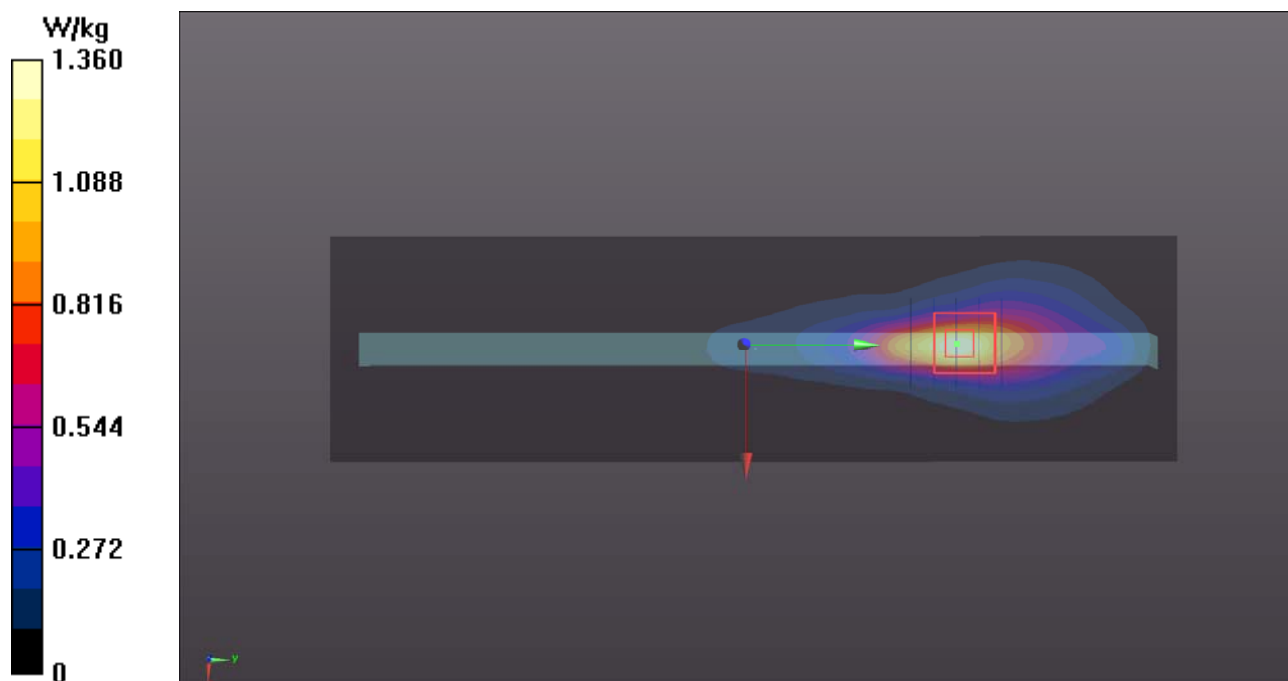
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.49 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.853 W/kg; SAR(10 g) = 0.467 W/kg

Maximum value of SAR (measured) = 1.40 W/kg



P06 CDMA2000_RTAP 153.6_Top Side_0cm_Ch1013_Sensor_w_o**DUT: 160721C25**

Communication System: CDMA2000; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: B07T10N2_0810 Medium parameters used: $f = 825$ MHz; $\sigma = 0.982$ S/m; $\epsilon_r = 54.711$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.83, 9.83, 9.83); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (61x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.66 W/kg

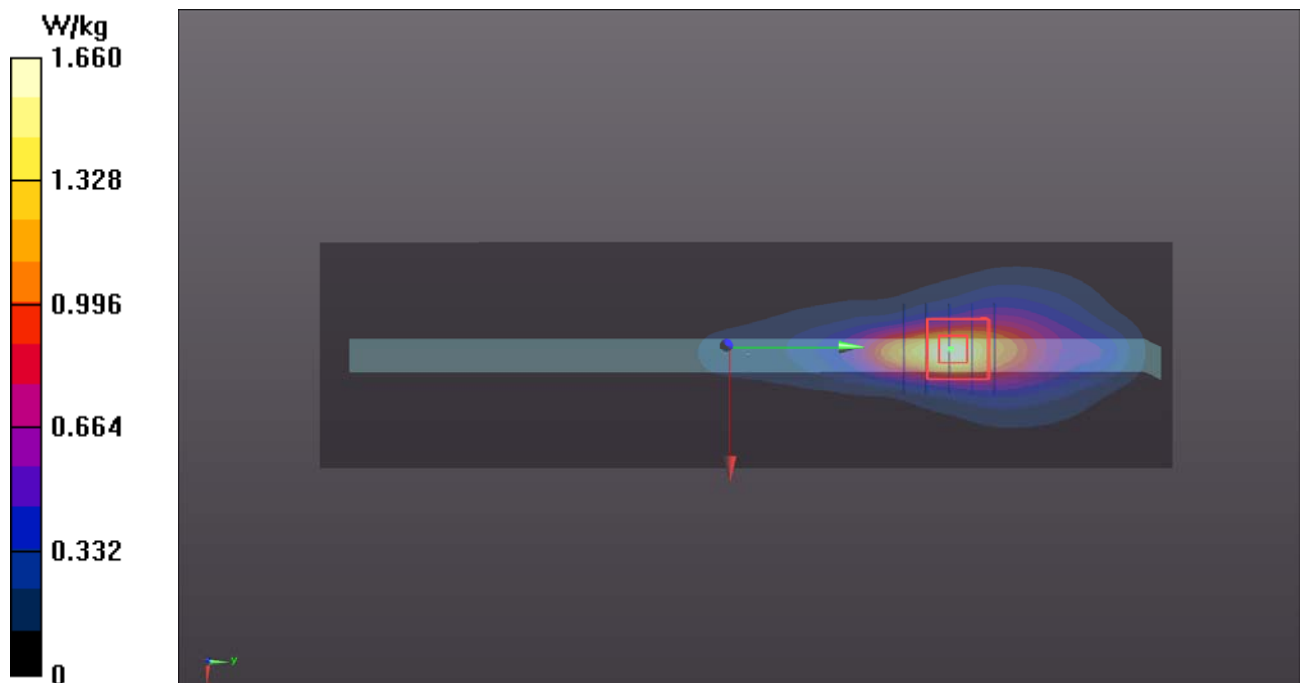
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.91 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.06 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.568 W/kg

Maximum value of SAR (measured) = 1.71 W/kg



P07 CDMA2000 BC1_RTAP 153.6_Top Side_0cm_Ch25_Sensor_w**DUT: 160721C25**

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

Medium: B16T20N2_0809 Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.533$ S/m; $\epsilon_r = 51.736$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7350; ConvF(8.04, 8.04, 8.04); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (41x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.827 W/kg

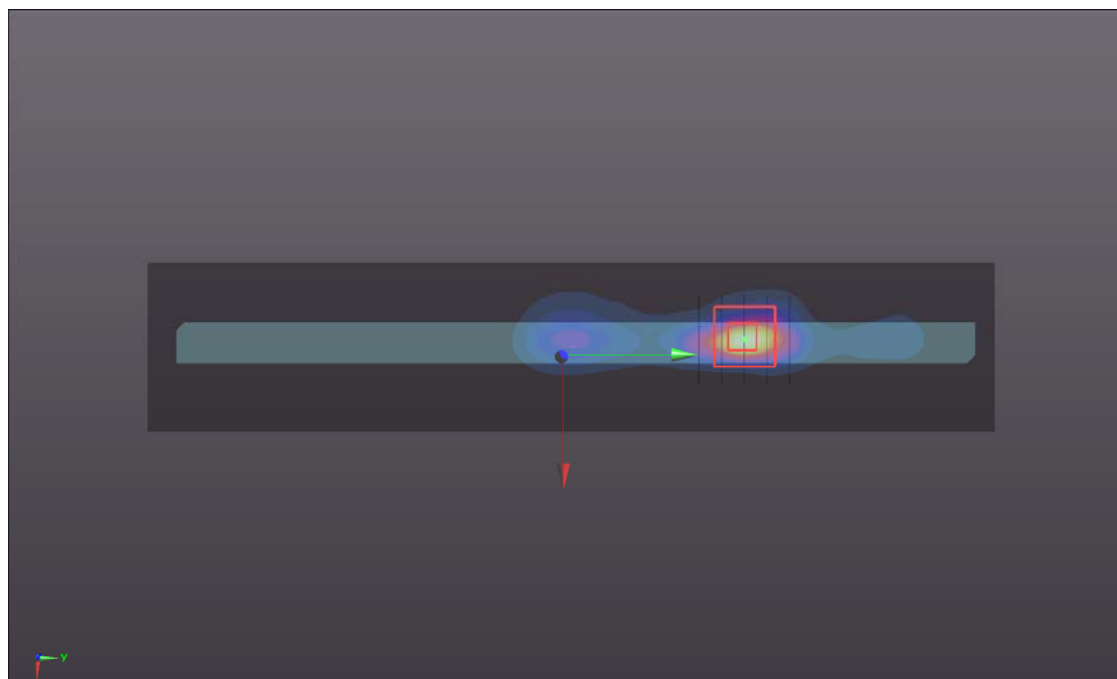
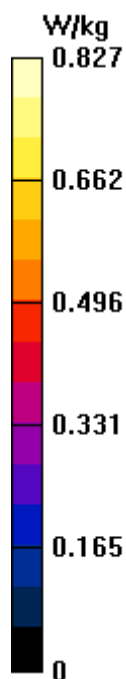
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.78 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.939 W/kg



P08 CDMA2000 BC10_RTAP 153.6_Top Side_0cm_Ch684_Sensor_w_o**DUT: 160721C25**

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

Medium: B07T10N2_0809 Medium parameters used: $f = 823.1$ MHz; $\sigma = 0.979$ S/m; $\epsilon_r = 54.666$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.9 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.83, 9.83, 9.83); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (41x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.69 W/kg

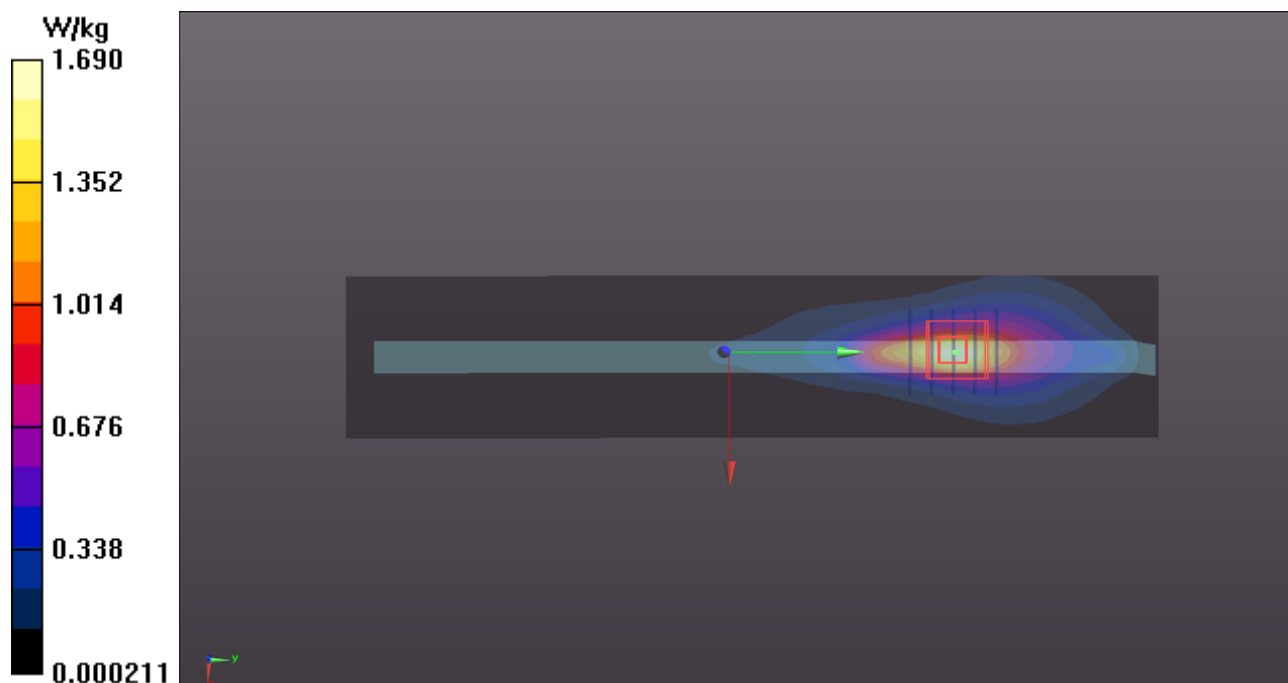
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.19 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.563 W/kg

Maximum value of SAR (measured) = 1.70 W/kg



P09 LTE 2_QPSK20M_Top Side_0cm_Ch18700_Sensor_w_100RB_OS0**DUT: 160721C25**

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

Medium: B16T20N2_0819 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 50.929$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.14, 8.14, 8.14); Calibrated: 2016/07/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: ELI Phantom_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (41x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.43 W/kg

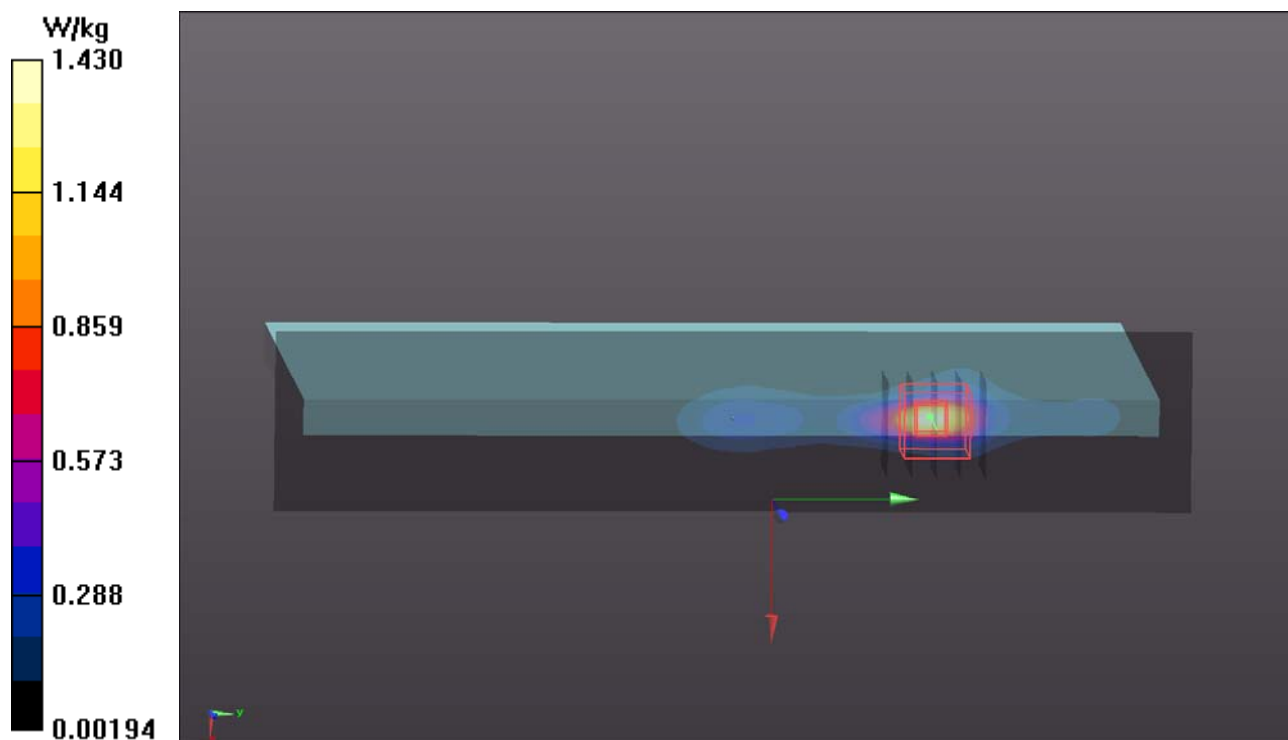
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.679 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.803 W/kg; SAR(10 g) = 0.345 W/kg

Maximum value of SAR (measured) = 1.48 W/kg



P10 LTE 4_QPSK20M_Rear Face_0cm_Ch20050_Sensor_w_50RB_OS0**DUT: 160721C25**

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

Medium: B16T20N2_0819 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.405$ S/m; $\epsilon_r = 54.817$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.9 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.43, 8.43, 8.43); Calibrated: 2016/07/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (151x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.744 W/kg

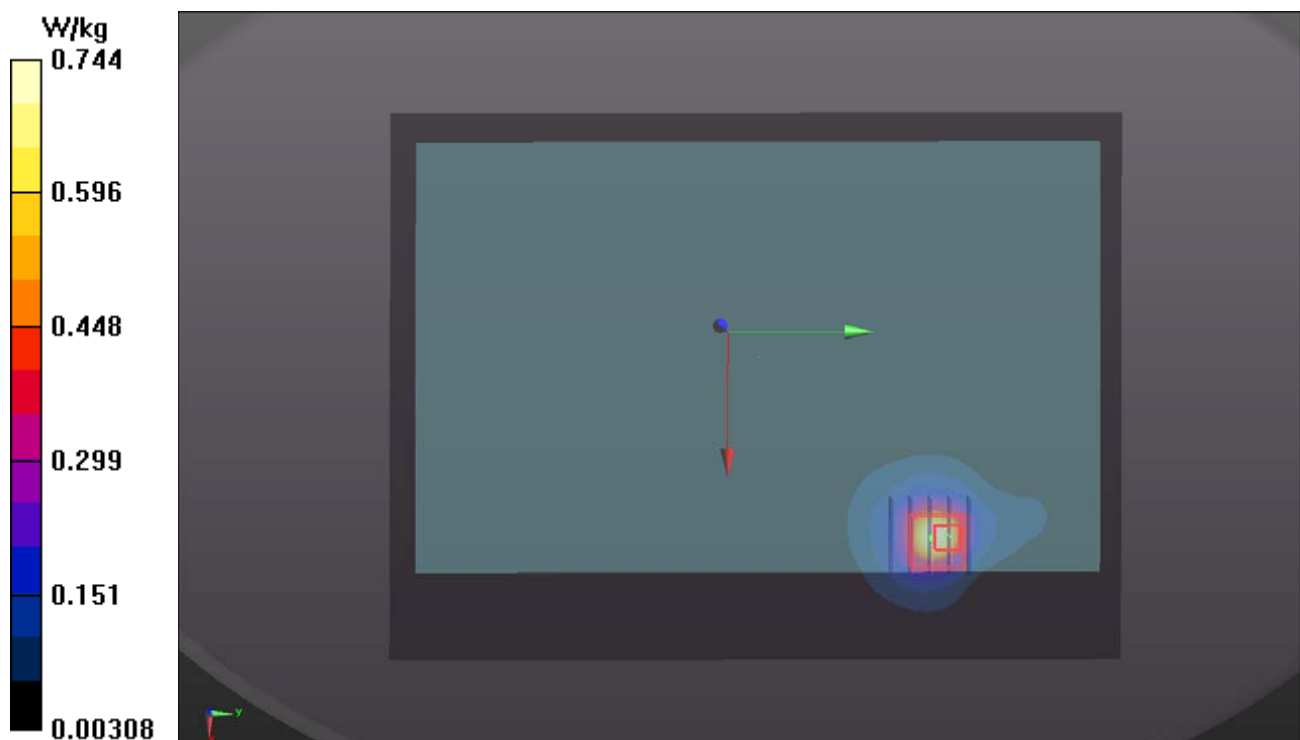
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.190 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.279 W/kg

Maximum value of SAR (measured) = 0.955 W/kg



P11 LTE 5_QPSK10M_Top Side_0cm_Ch20450_Sensor_w_o_1RB_OS24**DUT: 160721C25**

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: B07T10N2_0810 Medium parameters used: $f = 829$ MHz; $\sigma = 0.986$ S/m; $\epsilon_r = 54.678$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.83, 9.83, 9.83); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- **Area Scan (61x201x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

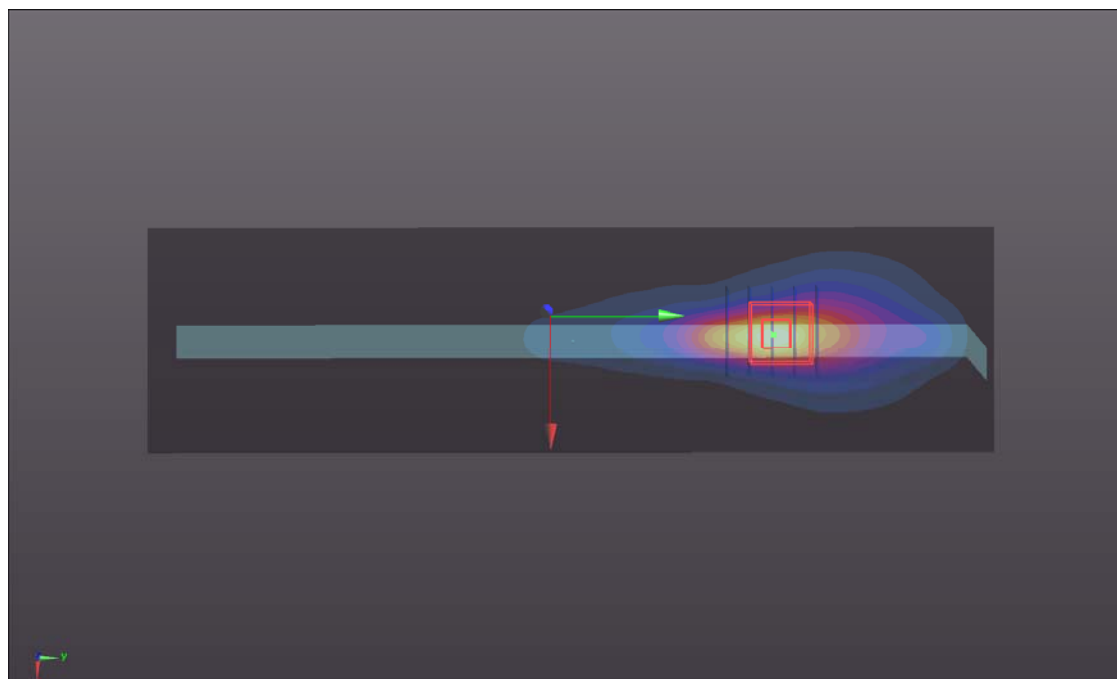
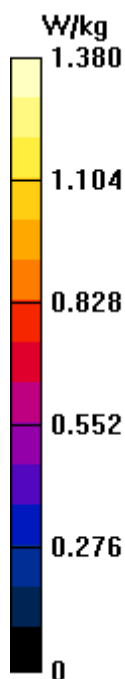
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.59 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.860 W/kg; SAR(10 g) = 0.471 W/kg

Maximum value of SAR (measured) = 1.41 W/kg



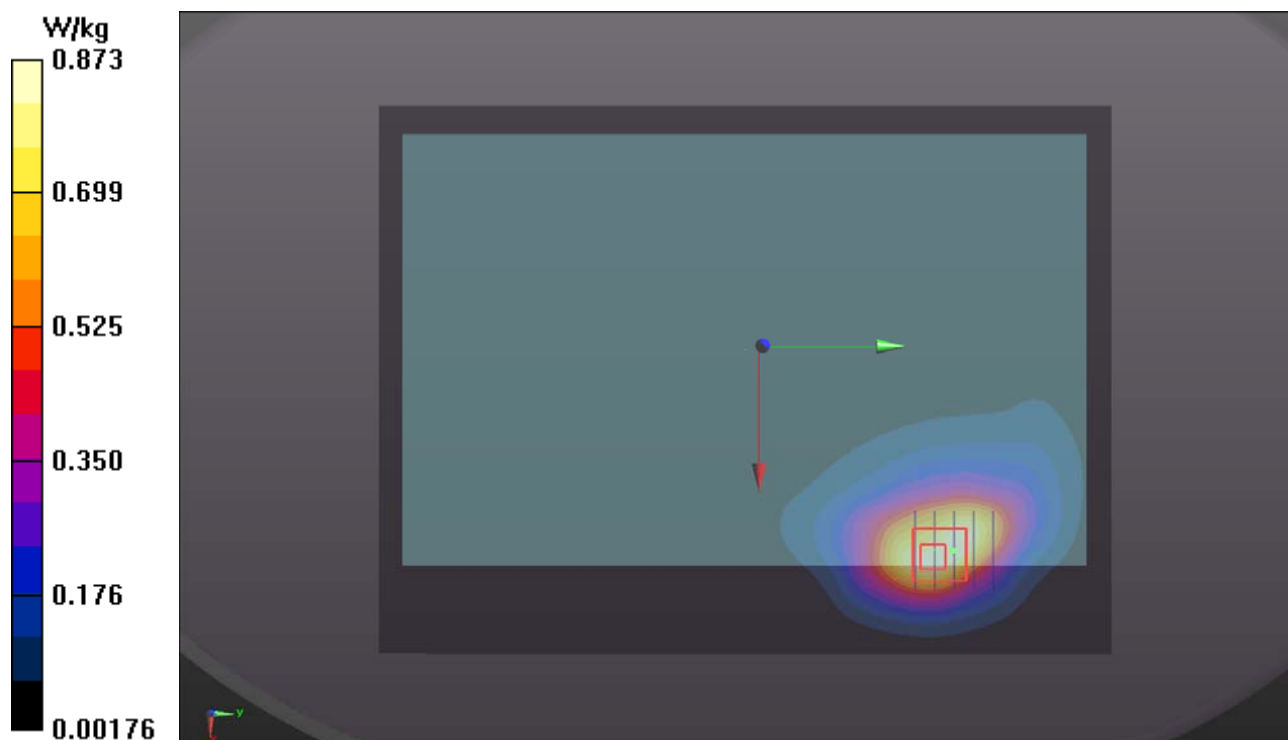
P12 LTE 13_QPSK10M_Rear Face_0cm_Ch23230_Sensor_w_o_50RB_OS0**DUT: 160721C25**

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

Medium: B06T09N1_0817 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.996 \text{ S/m}$; $\epsilon_r = 55.785$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : $23.9 \text{ }^\circ\text{C}$; Liquid Temperature : $23.3 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.11, 10.11, 10.11); Calibrated: 2016/07/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (151x201x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.873 W/kg **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.150 V/m ; Power Drift = -0.09 dB Peak SAR (extrapolated) = 1.59 W/kg **SAR(1 g) = 0.871 W/kg ; SAR(10 g) = 0.502 W/kg** Maximum value of SAR (measured) = 1.30 W/kg 

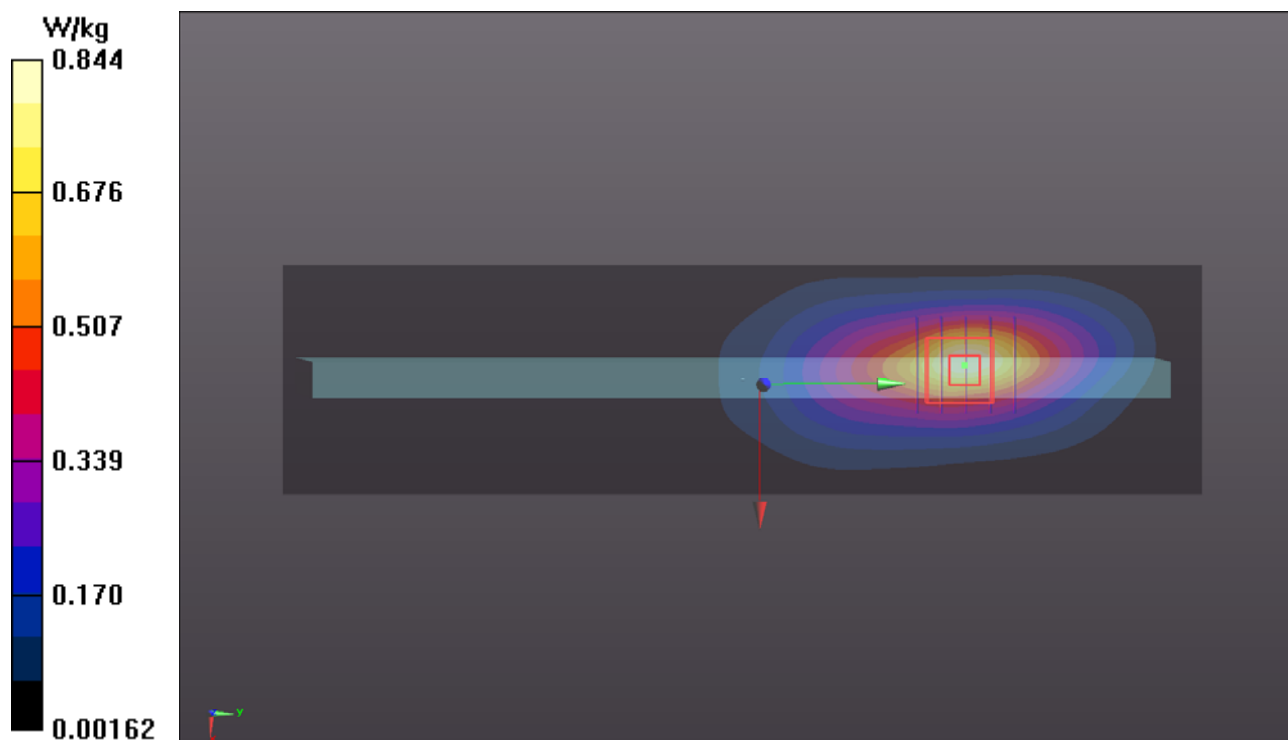
P13 LTE 17_QPSK10M_Top Side_0cm_Ch23800_Sensor_w_o_1RB_OS24**DUT: 160721C25**

Communication System: LTE; Frequency: 711 MHz; Duty Cycle: 1:1

Medium: B06T09N1_0819 Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.932 \text{ S/m}$; $\epsilon_r = 56.577$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 23.7°C ; Liquid Temperature : 23.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.11, 10.11, 10.11); Calibrated: 2016/07/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

- Area Scan (51x201x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.844 W/kg **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.405 V/m ; Power Drift = -0.08 dB Peak SAR (extrapolated) = 1.78 W/kg **SAR(1 g) = 0.943 W/kg ; SAR(10 g) = 0.535 W/kg** Maximum value of SAR (measured) = 1.45 W/kg 

P14 LTE 25_QPSK20M_Top Side_0cm_Ch26140_Sensor_w_1RB_OS50**DUT: 160721C25**

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

Medium: B16T20N2_0809 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.542$ S/m; $\epsilon_r = 51.709$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7350; ConvF(8.04, 8.04, 8.04); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (41x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.70 W/kg

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

Reference Value = 16.46 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.446 W/kg

Maximum value of SAR (measured) = 1.79 W/kg

