



SAR EVALUATION REPORT

Applicant Name:

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Gyeonggi-do 443-742, Korea

Date of Testing:

04/14/14 - 07/14/14

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

Document Serial No.:

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FCC ID:

A3LSMT707A

APPLICANT:

SAMSUNG ELECTRONICS, CO. LTD.

DUT Type:

Portable Tablet

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-T707A

Equipment Class	Band & Mode	Tx Frequency	SAR
			1 gm Body (W/kg)
PCB	UMTS 850	826.40 - 846.60 MHz	0.65
PCB	UMTS 1900	1852.4 - 1907.6 MHz	0.80
PCB	LTE Band 17	706.5 - 713.5 MHz	0.92
PCB	LTE Band 5 (Cell)	824.7 - 848.3 MHz	0.50
PCB	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	0.99
PCB	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	0.68
DTS	2.4 GHz WLAN	2412 - 2462 MHz	1.06
DTS	Bluetooth LE	2402 - 2480 MHz	N/A
DTS	5.8 GHz WLAN	5745 - 5825 MHz	
NII	5.2 GHz WLAN	5180 - 5240 MHz	
NII	5.3 GHz WLAN	5260 - 5320 MHz	
NII	5.5 GHz WLAN	5500 - 5700 MHz	0.27
DSS	Bluetooth	2402 - 2480 MHz	
Simultaneous SAR per KDB 690783 D01v01r02:			1.55

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.7 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.


Randy Ortanez
President



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.40 - 846.60 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
2.4 GHz WLAN	Data	2412 - 2462 MHz
5.8 GHz WLAN	Data	5745 - 5825 MHz
5.2 GHz WLAN	Data	5180 - 5240 MHz
5.3 GHz WLAN	Data	5260 - 5320 MHz
5.5 GHz WLAN	Data	5500 - 5700 MHz
Bluetooth	Data	2402 - 2480 MHz
ANT+	Data	2402 - 2480 MHz

1.2 Power Reduction for SAR

This device uses a sensor for SAR compliance. The sensor is activated when used in close proximity to the user's body. The sensor triggers power reduction for data modes and is only applicable for tablet operations.

Since the device is a full tablet size, the Body SAR was evaluated per FCC KDB Publication 616217 D04v01 for full sized tablets.

1.3 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v05.

Maximum Power:

Mode / Band		Modulated Average (dBm)		
		3GPP RMC	3GPP HSDPA	3GPP HSUPA
UMTS Band 5 (850 MHz)	Maximum	23.5	23.0	22.5
	Nominal	23.0	22.5	22.0
UMTS Band 2 (1900 MHz)	Maximum	23.5	22.5	22.5
	Nominal	23.0	22.0	22.0

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Mode / Band		Modulated Average (dBm)
LTE Band 17	Maximum	24.0
	Nominal	23.5
LTE Band 5 (Cell)	Maximum	24.0
	Nominal	23.5
LTE Band 4 (AWS)	Maximum	24.0
	Nominal	23.5
LTE Band 2 (PCS)	Maximum	24.0
	Nominal	23.5

Mode / Band		Modulated Average (dBm)
SISO IEEE 802.11b (2.4 GHz)	Maximum	12.5
	Nominal	12.0
SISO IEEE 802.11g (2.4 GHz)	Maximum	11.5
	Nominal	11.0
SISO & MIMO IEEE 802.11n (2.4 GHz)	Maximum	10.5
	Nominal	10.0
SISO IEEE 802.11a (5 GHz)	Maximum	8.0
	Nominal	7.5
SISO IEEE 802.11n (5 GHz)	Maximum	8.0
	Nominal	7.5
MIMO IEEE 802.11n (5.2 - 5.5 GHz) 20MHz Bandwidth	Maximum	7.0
	Nominal	6.5
MIMO IEEE 802.11n (5.2 - 5.3 GHz) 40MHz Bandwidth	Maximum	6.5
	Nominal	6.0
MIMO IEEE 802.11n (5.5 GHz) 40MHz Bandwidth	Maximum	7.0
	Nominal	6.5
MIMO IEEE 802.11n (5.8 GHz)	Maximum	8.0
	Nominal	7.5
SISO IEEE 802.11ac (5 GHz)	Maximum	8.0
	Nominal	7.5
MIMO IEEE 802.11ac (5.2 - 5.5 GHz) 80MHz Bandwidth	Maximum	6.5
	Nominal	6.0
MIMO IEEE 802.11ac (5.8 GHz) 80 MHz Bandwidth	Maximum	8.0
	Nominal	7.5
Bluetooth	Maximum	10.5
	Nominal	10.0
Bluetooth LE	Maximum	7.0
	Nominal	6.5

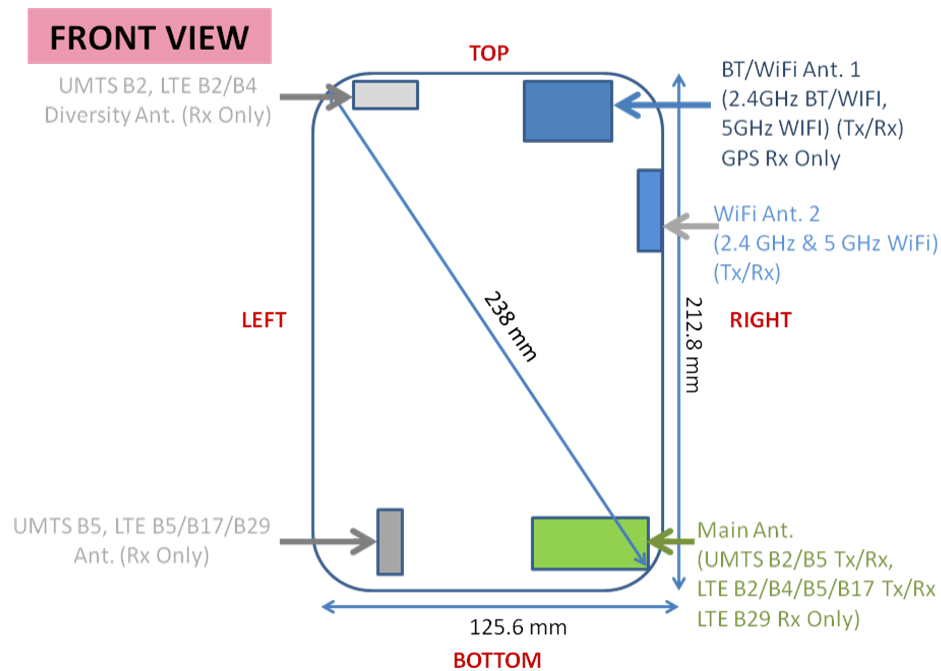
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With Power Backoff (Body at 0 mm):

Mode / Band		Modulated Average (dBm)		
		3GPP RMC Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6
UMTS Band 5 (850 MHz)	Maximum	20.5	20.0	20.0
	Nominal	20.0	19.5	19.5
UMTS Band 2 (1900 MHz)	Maximum	13.5	13.0	13.0
	Nominal	13.0	12.5	12.5

Mode / Band		Modulated Average (dBm)
LTE Band 17	Maximum	20.5
	Nominal	20.0
LTE Band 5 (Cell)	Maximum	20.0
	Nominal	19.5
LTE Band 4 (AWS)	Maximum	13.0
	Nominal	12.5
LTE Band 2 (PCS)	Maximum	13.5
	Nominal	13.0

1.4 DUT Antenna Locations



Note: Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC Filing.

Figure 1-1
DUT Antenna Locations

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Table 1-1
Body Sides for SAR Testing

Body Sides for SAR Testing						
Mode	Back	Front	Top	Bottom	Right	Left
UMTS 850	Yes	No	No	Yes	Yes	No
UMTS 1900	Yes	No	No	Yes	Yes	No
LTE Band 17	Yes	No	No	Yes	Yes	No
LTE Band 5 (Cell)	Yes	No	No	Yes	Yes	No
LTE Band 4 (AWS)	Yes	No	No	Yes	Yes	No
LTE Band 2 (PCS)	Yes	No	No	Yes	Yes	No
2.4 GHz WLAN/BT	Yes	No	Yes	No	Yes	No

Note: Per FCC KDB 616217 D04v01r01, Particular DUT edges were not required to be evaluated for SAR based on the SAR exclusion threshold in KDB 447498 D01v05r01.

1.5 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D05v01, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the DUT are shown in Figure 1-2 and are color-coded to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.



Figure 1-2
Simultaneous Transmission Paths

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v05 3) procedures.

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Table 1-2
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Body
1	UMTS + 2.4 GHz WI-FI	Yes
2	UMTS + 5 GHz WI-FI	Yes
3	UMTS + 2.4 GHz Bluetooth	Yes
4	LTE + 2.4 GHz WI-FI	Yes
5	LTE + 5 GHz WI-FI	Yes
6	LTE + 2.4 GHz Bluetooth	Yes

Notes:

1. UMTS and LTE share the same antenna path and cannot transmit simultaneously.
2. 2.4 GHz WLAN, 2.4 GHz Bluetooth, and 5 GHz WLAN share the same antenna path and cannot transmit simultaneously.
3. This device supports 2x2 MIMO Tx for WLAN 802.11n/ac. Each WLAN antenna can transmit independently or together when operating with MIMO.

1.6 SAR Test Exclusions Applied

(A) WIFI/BT

Per FCC KDB 447498 D01v05, the SAR exclusion threshold for distances <50mm is defined by the following equation:

$$\frac{\text{Max Power of Channel (mW)}}{\text{Test Separation Dist (mm)}} * \sqrt{\text{Frequency (GHz)}} \leq 3.0$$

Based on the maximum conducted power of Bluetooth LE (rounded to the nearest mW) and the antenna to user separation distance, Bluetooth LE SAR was not required; $[(5/5) * \sqrt{2.441}] = 1.6 < 3.0$. Per KDB Publication 447498 D01v05, the maximum power of the channel was rounded to the nearest mW before calculation.

Based on the maximum conducted power of 5GHz WLAN (rounded to the nearest mW) and the antenna to user separation distance, 5GHz WLAN SAR was not required; $[(6/5) * \sqrt{5.825}] = 2.9 < 3.0$. Per KDB Publication 447498 D01v05, the maximum power of the channel was rounded to the nearest mW before calculation.

This device supports 20 MHz and 40 MHz Bandwidths for IEEE 802.11n for 5 GHz WIFI only.

This device supports IEEE 802.11ac with the following features:

- a) Up to 80 MHz Bandwidth only
- b) No aggregate channel configurations
- c) 2 Tx antenna output
- d) 256 QAM is supported
- e) No new 5 GHz channels

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(B) Licensed Transmitter(s)

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v02.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02.

This device supports inter-band LTE Carrier Aggregation (CA) in the downlink only. All uplink communications are identical to Release 8 specifications. Per FCC guidance, LTE CA SAR was not needed for testing since the data sent by uplink on uplink physical channels does not change between Rel. 8 and Rel. 10.

1.7 Guidance Applied

- FCC KDB Publication 941225 D01-D06 (3G/4G)
- FCC KDB Publication 248227 D01v01r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v05 (General SAR Guidance)
- FCC KDB Publication 616217 D04v01 (Tablet SAR Consideration)
- FCC KDB Publication 865664 D01-D02 (SAR Measurements up to 6 GHz)

1.8 Device Serial Numbers

Several samples were used with identical hardware to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.

	Body Serial Number - Max Power	Body Serial Number - Reduced Power
UMTS 850	0807-5	0807-1
UMTS 1900	0807-3	0807-1
LTE Band 17	0807-5	0807-2
LTE Band 5 (Cell)	0807-5	0807-2
LTE Band 4 (AWS)	0807-5	0807-1
LTE Band 2 (PCS)	0807-5	0807-1
2.4 GHz WLAN	1004-1	-
2.4 GHz BT	1004-1	-

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LTE INFORMATION

LTE Information						
FCC ID	A3LSMT707A					
Form Factor	Portable Tablet					
Frequency Range of each LTE transmission band	LTE Band 17 (706.5 - 713.5 MHz) LTE Band 5 (Cell) (824.7 - 848.3 MHz) LTE Band 4 (AWS) (1710.7 - 1754.3 MHz) LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)					
Channel Bandwidths	LTE Band 17: 5 MHz, 10 MHz LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz					
Channel Numbers and Frequencies (MHz)	Low	Mid			High	
LTE Band 17: 5 MHz	706.5 (23755)	710 (23790)			713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)	710 (23790)			711 (23800)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)	836.5 (20525)			848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)	836.5 (20525)			847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)	836.5 (20525)			846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)	836.5 (20525)			844 (20600)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)	1732.5 (20175)			1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)			1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)			1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)			1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)			1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)			1745 (20300)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)			1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)			1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)			1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)			1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)			1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)			1900 (19100)	
UE Category	4					
Modulations Supported in UL	QPSK, 16QAM					
LTE Carrier Aggregation Possible Considerations	B2 (PCC) + B17 (SCC)	B17 (PCC) + B2 (SCC)	B4 (PCC) + B17 (SCC)	B17 (PCC) + B4 (SCC)	B2 (PCC) + B29 (SCC)	B4 (PCC) + B29 (SCC)
	5MHz (B2) + 5MHz (B17)	5MHz (B17) + 5MHz (B2)	5MHz (B4) + 5MHz (B17)	5MHz (B17) + 5MHz (B4)	5MHz (B2) + 5MHz (B29)	5MHz (B4) + 5MHz (B29)
	5MHz (B2) + 10MHz (B17)	5MHz (B17) + 10MHz (B2)	5MHz (B4) + 10MHz (B17)	5MHz (B17) + 10MHz (B4)	5MHz (B2) + 10MHz (B29)	5MHz (B4) + 10MHz (B29)
	10MHz (B2) + 5MHz (B17)	10MHz (B17) + 5MHz (B2)	10MHz (B4) + 5MHz (B17)	10MHz (B17) + 5MHz (B4)	10MHz (B2) + 5MHz (B29)	10MHz (B4) + 5MHz (B29)
	10MHz (B2) + 10MHz (B17)	10MHz (B17) + 10MHz (B2)	10MHz (B4) + 10MHz (B17)	10MHz (B17) + 10MHz (B4)	10MHz (B2) + 10MHz (B29)	10MHz (B4) + 10MHz (B29)
LTE Aggregation Additional Information	This device does not support full CA features on 3GPP Release 10. It supports a maximum of 2 carriers in the downlink with a total maximum bandwidth of 10 MHz of the spectrum. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. Due to carrier capability, only B2 (PCC) + B17 (SCC), B17 (PCC) + B2 (SCC), B4 (PCC) + B17 (SCC), B17 (PCC) + B4 (SCC) B2 (PCC) + B29 (SCC), and B4 (PCC) + B29 (SCC) are supported.					
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES					
A-MPR (Additional MPR) disabled for SAR Testing?	YES					

The following LTE Release 10 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, WIFI offloading, MDT, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.

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The FCC and Industry Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m^3)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01 and IEEE 1528-2013:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01 (See Table 4-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

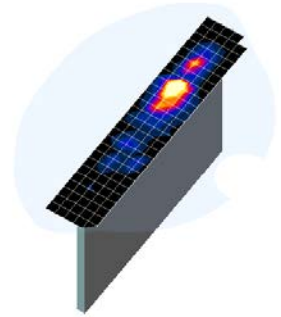


Figure 4-1
Sample SAR Area Scan

Table 4-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01*

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid $\Delta z_{\text{zoom}}(n)$	Graded Grid		
				$\Delta z_{\text{zoom}}(1)^*$	$\Delta z_{\text{zoom}}(n>1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

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5.1 SAR Testing for Tablet per FCC KDB Publication 616217 D04v01

This device can be used also in full sized tablet exposure conditions, due to its size. Per FCC KDB 616217, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR Exclusion Threshold in KDB 447498 D01v05 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

5.2 Additional Test Positions due to Sensor Considerations

This device uses a sensor to reduce data powers in tablet-device use conditions.

While the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum output power allowed. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, an additional exposure condition is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level.

FCC KDB 616217 D04 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional exposure conditions. Since the sensor activation distance for the back side of the device is 19 mm, a conservative distance of 18 mm was tested for SAR on the back side at maximum power. Since the sensor activation distance for the bottom edge of the device is 14 mm, a conservative distance of 13 mm was tested for SAR on the bottom edge at maximum power. Since the sensor activation distance for the right edge of the device is 10 mm, a conservative distance of 9 mm was tested for SAR on the right edge at maximum power. Sensor triggering distance summary data is included in Appendix G. The sensor does not trigger power reduction from the front of the device.

The sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the sensor entirely covers the antenna.

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6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

6.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Table 6-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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7 FCC MEASUREMENT PROCEDURES

Power measurements were performed using a base station simulator under digital average power.

7.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v05, When SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r02.

7.2 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01 "SAR Measurement Procedures for 3G Devices" v02, October 2007.

The device was placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test were evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device was tested throughout the SAR test at maximum output power, the SAR measurement system measures a "point SAR" at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviated by more than 5%, the SAR test and drift measurements were repeated.

7.3 SAR Measurement Conditions for UMTS

7.3.1 Output Power Verification

Maximum output power is measured on the High, Middle and Low channels for each applicable transmission band according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1s".

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121 (release 5), using the appropriate RMC with TPC (transmit power control) set to all "1s" or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

7.3.2 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all "1s".

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7.3.3 Procedures Used to Establish RF Signal for SAR HSDPA Data Devices

The following procedures are applicable to HSDPA data devices operating under 3GPP Release 5. Body exposure conditions are typically applicable to these devices, including handsets and data modems operating in various electronic devices. HSDPA operates in conjunction with UMTS and requires an active DPCH. The default test configuration is to measure SAR in UMTS without HSDPA, with an established radio link between the DUT and a communication test set with 12.2 kbps RMC mode configured in Test Loop Mode 1; and tested with HSDPA with FRC and a 12.2 kbps RMC using the highest SAR configuration in UMTS. SAR is selectively confirmed for other physical channel configurations according to output power, exposure conditions and device operating capabilities. Maximum output power is verified according to 3GPP TS 23.121 (Release 5) and SAR must be measured according to these maximum output conditions.

Sub-Test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$. Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 8$ ($A_{hs} = 30/15$) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 7$ ($A_{hs} = 24/15$) with $\beta_{hs} = 24/15 * \beta_c$. Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.							

Figure 7-1
Table C.10.1.4 of TS 234.121-1

7.3.4 SAR Measurement Conditions for HSUPA Data Devices

SAR for body exposure configurations are measured according to the 'Body SAR Measurements' procedures in the 'WCDMA Handsets' section of the KDB 941225 D01 FCC 3G document. In addition, Body SAR is also measured for HSPA when the maximum average output of each RF channel with HSPA active is at least ¼ dB higher of that measured without HSPA in 12.2 kbps RMC mode or the maximum SAR for 12.2 kbps RMC is above 75% of the SAR limit. Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 with power control algorithm 2, according to the highest body SAR configuration in 12.2 kbps RMC without HSPA. When VOIP is applicable for head exposure, SAR is not required when the maximum output of each RF channel with HSPA is less than ¼ dB higher than that measured using 12.2 kbps RMC; otherwise, the same HSPA configuration used for body measurements should be used to test for head exposure.

Due to inner loop power control requirements in HSPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and EDCH configurations for HSPA should be configured according to the β values indicated below as well as other applicable procedures described in the 'WCDMA Handset' and 'Release 5 HSDPA Data Devices' sections of the FCC 3G document.

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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⁾	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

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Rightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Rightarrow \beta_{hs} = 30/15 * \beta_c$.

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} can not be set directly; it is set by Absolute Grant Value.

7.4 SAR Measurement Conditions for LTE

LTE modes were tested according to FCC KDB 941225 D05v02 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

7.4.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

7.4.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

7.4.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

7.4.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r01:

- Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - The required channel and offset combination with the highest maximum output power is required for SAR.
 - 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 using the RB offset configuration with highest output power for that channel.
 - When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.

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- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.

7.4.5 Carrier Aggregation

LTE Carrier Aggregation (CA) measurements were made in accordance to 3GPP TS 36.521-1 V10.4.0 (2012-12). The RRC connection is only handled by one cell, the Primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds the Secondary component carrier (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to release 8 specifications on the PCC. Additional output powers were measured using two carriers in the downlink for the release 8 configurations with the highest output power among all channels, RB configurations and bandwidths for each uplink band. Per FCC Guidance, no SAR measurements were required.

7.5 SAR Testing with 802.11 Transmitters

Normal network operating configurations are not suitable for measuring the SAR of 802.11 a/b/g/n /ac transmitters. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v01r02 for more details.

7.5.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

7.5.2 Frequency Channel Configurations [24]

For 2.4 GHz, the highest average RF output power channel between the low, mid and high channel at the lowest data rate was selected for SAR evaluation in 802.11b mode. 802.11g/n modes and higher data rates for 802.11b were additionally evaluated for SAR if the output power of the respective mode was 0.25 dB or higher than the powers of the SAR configurations tested in the 802.11b mode.

If the maximum extrapolated peak SAR of the zoom scan for the highest output channel was less than 1.6 W/kg and if the 1g averaged SAR was less than 0.8 W/kg, SAR testing was not required for the other test channels in the band.

7.5.3 MIMO SAR considerations

Per KDB 248227, SAR for MIMO was measured with both transmitting simultaneously and was evaluated independently of SISO operation. For 2.4 GHz MIMO, 802.11n was evaluated. 5 GHz WLAN SAR tests were excluded per FCC KDB 447498 D01v05.

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8 RF CONDUCTED POWERS

8.1 UMTS Conducted Powers

Table 8-1
Maximum UMTS Average RF Conducted Powers

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	22.57	22.48	22.54	22.31	22.34	22.30	-
6	HSDPA	Subtest 1	22.77	22.63	22.76	22.41	22.48	22.44	0
6		Subtest 2	22.62	22.50	22.55	22.14	22.21	22.18	0
6		Subtest 3	22.39	22.26	22.31	21.92	21.98	21.95	0.5
6		Subtest 4	22.14	22.01	22.10	21.63	21.73	21.69	0.5
6	HSUPA	Subtest 1	22.03	21.94	22.00	21.60	21.67	21.64	0
6		Subtest 2	20.54	20.45	20.47	20.37	20.47	20.59	2
6		Subtest 3	21.52	21.47	21.52	20.92	21.07	21.14	1
6		Subtest 4	20.83	20.76	20.79	20.59	20.77	20.80	2
6		Subtest 5	22.32	22.45	22.49	21.11	21.14	21.23	0

Table 8-2
Reduced UMTS Average RF Conducted Powers
Representing Body at 0 mm

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	19.65	19.59	19.60	13.03	12.90	12.91	-
6	HSDPA	Subtest 1	19.82	19.69	19.74	12.97	12.82	12.95	0
6		Subtest 2	19.33	19.50	19.52	12.67	12.57	12.42	0
6		Subtest 3	19.27	19.06	19.12	12.48	12.28	12.39	0.5
6		Subtest 4	19.16	18.97	18.99	12.31	12.08	12.17	0.5
6	HSUPA	Subtest 1	19.12	19.04	19.23	12.35	12.22	12.31	0
6		Subtest 2	19.66	19.56	19.55	12.98	12.80	12.94	2
6		Subtest 3	19.60	19.53	19.67	12.64	12.73	12.85	1
6		Subtest 4	19.14	19.03	19.01	12.44	12.29	12.35	2
6		Subtest 5	19.84	19.78	19.77	13.00	12.95	12.98	0

UMTS SAR was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v02. HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.

This device does not support DC-HSDPA.

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It is expected by the manufacturer that MPR for some HSPA subtests may be up to 1 dB more than specified by 3GPP, but also as low as 0 dB according to the chipset implementation in this model.



Figure 8-1
Power Measurement Setup

8.2 LTE Conducted Powers

8.2.1 LTE Band 17

Table 8-3
Maximum LTE Band 17 Conducted Powers - 10 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	710.0	23790	10	QPSK	1	0	23.51	0	0
	710.0	23790	10	QPSK	1	25	23.34	0	0
	710.0	23790	10	QPSK	1	49	23.37	0	0
	710.0	23790	10	QPSK	25	0	22.47	0-1	1
	710.0	23790	10	QPSK	25	12	22.41	0-1	1
	710.0	23790	10	QPSK	25	25	22.40	0-1	1
	710.0	23790	10	QPSK	50	0	22.45	0-1	1
	710.0	23790	10	16QAM	1	0	22.75	0-1	1
	710.0	23790	10	16QAM	1	25	22.71	0-1	1
	710.0	23790	10	16QAM	1	49	22.75	0-1	1
	710.0	23790	10	16QAM	25	0	21.36	0-2	2
	710.0	23790	10	16QAM	25	12	21.32	0-2	2
	710.0	23790	10	16QAM	25	25	21.36	0-2	2
	710.0	23790	10	16QAM	50	0	21.38	0-2	2

Note: LTE Band 17 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-4
Reduced LTE Band 17 Conducted Powers - 10 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	710.0	23790	10	QPSK	1	0	20.48	0	0
	710.0	23790	10	QPSK	1	25	20.34	0	0
	710.0	23790	10	QPSK	1	49	20.31	0	0
	710.0	23790	10	QPSK	25	0	20.49	0-1	0
	710.0	23790	10	QPSK	25	12	20.48	0-1	0
	710.0	23790	10	QPSK	25	25	20.43	0-1	0
	710.0	23790	10	QPSK	50	0	20.14	0-1	0
	710.0	23790	10	16QAM	1	0	20.45	0-1	0
	710.0	23790	10	16QAM	1	25	20.26	0-1	0
	710.0	23790	10	16QAM	1	49	20.31	0-1	0
	710.0	23790	10	16QAM	25	0	20.17	0-2	0
	710.0	23790	10	16QAM	25	12	20.11	0-2	0
	710.0	23790	10	16QAM	25	25	20.10	0-2	0
	710.0	23790	10	16QAM	50	0	20.11	0-2	0

Note: LTE Band 17 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-5
Maximum LTE Band 17 Conducted Powers - 5 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	710.0	23790	5	QPSK	1	0	23.50	0	0
	710.0	23790	5	QPSK	1	12	23.23	0	0
	710.0	23790	5	QPSK	1	24	23.49	0	0
	710.0	23790	5	QPSK	12	0	22.41	0-1	1
	710.0	23790	5	QPSK	12	6	22.29	0-1	1
	710.0	23790	5	QPSK	12	13	22.37	0-1	1
	710.0	23790	5	QPSK	25	0	22.40	0-1	1
	710.0	23790	5	16-QAM	1	0	22.82	0-1	1
	710.0	23790	5	16-QAM	1	12	22.41	0-1	1
	710.0	23790	5	16-QAM	1	24	22.79	0-1	1
	710.0	23790	5	16-QAM	12	0	21.42	0-2	2
	710.0	23790	5	16-QAM	12	6	21.38	0-2	2
	710.0	23790	5	16-QAM	12	13	21.46	0-2	2
	710.0	23790	5	16-QAM	25	0	21.45	0-2	2

Note: LTE Band 17 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-6
Reduced LTE Band 17 Conducted Powers - 5 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	710.0	23790	5	QPSK	1	0	20.45	0	0
	710.0	23790	5	QPSK	1	12	20.06	0	0
	710.0	23790	5	QPSK	1	24	20.44	0	0
	710.0	23790	5	QPSK	12	0	20.30	0-1	0
	710.0	23790	5	QPSK	12	6	20.21	0-1	0
	710.0	23790	5	QPSK	12	13	20.24	0-1	0
	710.0	23790	5	QPSK	25	0	20.21	0-1	0
	710.0	23790	5	16-QAM	1	0	20.47	0-1	0
	710.0	23790	5	16-QAM	1	12	20.22	0-1	0
	710.0	23790	5	16-QAM	1	24	20.45	0-1	0
	710.0	23790	5	16-QAM	12	0	20.27	0-2	0
	710.0	23790	5	16-QAM	12	6	20.13	0-2	0
	710.0	23790	5	16-QAM	12	13	20.28	0-2	0
	710.0	23790	5	16-QAM	25	0	20.24	0-2	0

Note: LTE Band 17 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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LTE Band 5 (Cell)

Table 8-7

Maximum LTE Band 5 (Cell) Conducted Powers - 10 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	836.5	20525	10	QPSK	1	0	23.30	0	0
	836.5	20525	10	QPSK	1	25	23.39	0	0
	836.5	20525	10	QPSK	1	49	23.22	0	0
	836.5	20525	10	QPSK	25	0	22.43	0-1	1
	836.5	20525	10	QPSK	25	12	22.48	0-1	1
	836.5	20525	10	QPSK	25	25	22.45	0-1	1
	836.5	20525	10	QPSK	50	0	22.46	0-1	1
	836.5	20525	10	16QAM	1	0	22.70	0-1	1
	836.5	20525	10	16QAM	1	25	22.85	0-1	1
	836.5	20525	10	16QAM	1	49	22.73	0-1	1
	836.5	20525	10	16QAM	25	0	21.60	0-2	2
	836.5	20525	10	16QAM	25	12	21.59	0-2	2
	836.5	20525	10	16QAM	25	25	21.57	0-2	2
	836.5	20525	10	16QAM	50	0	21.55	0-2	2

Note: LTE Band 5 (Cell) at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-8

Reduced LTE Band 5 (Cell) Conducted Powers - 10 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	836.5	20525	10	QPSK	1	0	19.29	0	0
	836.5	20525	10	QPSK	1	25	19.38	0	0
	836.5	20525	10	QPSK	1	49	19.27	0	0
	836.5	20525	10	QPSK	25	0	19.42	0-1	0
	836.5	20525	10	QPSK	25	12	19.38	0-1	0
	836.5	20525	10	QPSK	25	25	19.39	0-1	0
	836.5	20525	10	QPSK	50	0	19.35	0-1	0
	836.5	20525	10	16QAM	1	0	19.62	0-1	0
	836.5	20525	10	16QAM	1	25	19.65	0-1	0
	836.5	20525	10	16QAM	1	49	19.68	0-1	0
	836.5	20525	10	16QAM	25	0	19.45	0-2	0
	836.5	20525	10	16QAM	25	12	19.45	0-2	0
	836.5	20525	10	16QAM	25	25	19.47	0-2	0
	836.5	20525	10	16QAM	50	0	19.42	0-2	0

Note: LTE Band 5 (Cell) at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-9
Maximum LTE Band 5 (Cell) Conducted Powers - 5 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	826.5	20425	5	QPSK	1	0	23.48	0	0
	826.5	20425	5	QPSK	1	12	23.10	0	0
	826.5	20425	5	QPSK	1	24	23.35	0	0
	826.5	20425	5	QPSK	12	0	22.32	0-1	1
	826.5	20425	5	QPSK	12	6	22.19	0-1	1
	826.5	20425	5	QPSK	12	13	22.24	0-1	1
	826.5	20425	5	QPSK	25	0	22.26	0-1	1
	826.5	20425	5	16-QAM	1	0	22.67	0-1	1
	826.5	20425	5	16-QAM	1	12	22.33	0-1	1
	826.5	20425	5	16-QAM	1	24	22.50	0-1	1
	826.5	20425	5	16-QAM	12	0	21.47	0-2	2
	826.5	20425	5	16-QAM	12	6	21.31	0-2	2
	826.5	20425	5	16-QAM	12	13	21.38	0-2	2
Mid	836.5	20525	5	QPSK	1	0	23.39	0	0
	836.5	20525	5	QPSK	1	12	23.10	0	0
	836.5	20525	5	QPSK	1	24	23.32	0	0
	836.5	20525	5	QPSK	12	0	22.35	0-1	1
	836.5	20525	5	QPSK	12	6	22.20	0-1	1
	836.5	20525	5	QPSK	12	13	22.31	0-1	1
	836.5	20525	5	QPSK	25	0	22.33	0-1	1
	836.5	20525	5	16-QAM	1	0	22.70	0-1	1
	836.5	20525	5	16-QAM	1	12	22.46	0-1	1
	836.5	20525	5	16-QAM	1	24	22.70	0-1	1
	836.5	20525	5	16-QAM	12	0	21.56	0-2	2
	836.5	20525	5	16-QAM	12	6	21.40	0-2	2
	836.5	20525	5	16-QAM	12	13	21.50	0-2	2
	836.5	20525	5	16-QAM	25	0	21.48	0-2	2
High	846.5	20625	5	QPSK	1	0	23.56	0	0
	846.5	20625	5	QPSK	1	12	23.13	0	0
	846.5	20625	5	QPSK	1	24	23.28	0	0
	846.5	20625	5	QPSK	12	0	22.32	0-1	1
	846.5	20625	5	QPSK	12	6	22.10	0-1	1
	846.5	20625	5	QPSK	12	13	22.06	0-1	1
	846.5	20625	5	QPSK	25	0	22.20	0-1	1
	846.5	20625	5	16-QAM	1	0	22.86	0-1	1
	846.5	20625	5	16-QAM	1	12	22.45	0-1	1
	846.5	20625	5	16-QAM	1	24	22.71	0-1	1
	846.5	20625	5	16-QAM	12	0	21.38	0-2	2
	846.5	20625	5	16-QAM	12	6	21.18	0-2	2
	846.5	20625	5	16-QAM	12	13	21.23	0-2	2
	846.5	20625	5	16-QAM	25	0	21.21	0-2	2

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Table 8-10
Reduced LTE Band 5 (Cell) Conducted Powers - 5 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	826.5	20425	5	QPSK	1	0	19.70	0	0
	826.5	20425	5	QPSK	1	12	19.28	0	0
	826.5	20425	5	QPSK	1	24	19.55	0	0
	826.5	20425	5	QPSK	12	0	19.51	0-1	0
	826.5	20425	5	QPSK	12	6	19.37	0-1	0
	826.5	20425	5	QPSK	12	13	19.42	0-1	0
	826.5	20425	5	QPSK	25	0	19.45	0-1	0
	826.5	20425	5	16-QAM	1	0	19.85	0-1	0
	826.5	20425	5	16-QAM	1	12	19.44	0-1	0
	826.5	20425	5	16-QAM	1	24	19.77	0-1	0
	826.5	20425	5	16-QAM	12	0	19.52	0-2	0
	826.5	20425	5	16-QAM	12	6	19.44	0-2	0
	826.5	20425	5	16-QAM	12	13	19.52	0-2	0
Mid	836.5	20525	5	QPSK	1	0	19.66	0	0
	836.5	20525	5	QPSK	1	12	19.30	0	0
	836.5	20525	5	QPSK	1	24	19.62	0	0
	836.5	20525	5	QPSK	12	0	19.56	0-1	0
	836.5	20525	5	QPSK	12	6	19.37	0-1	0
	836.5	20525	5	QPSK	12	13	19.50	0-1	0
	836.5	20525	5	QPSK	25	0	19.51	0-1	0
	836.5	20525	5	16-QAM	1	0	19.80	0-1	0
	836.5	20525	5	16-QAM	1	12	19.48	0-1	0
	836.5	20525	5	16-QAM	1	24	19.85	0-1	0
	836.5	20525	5	16-QAM	12	0	19.65	0-2	0
	836.5	20525	5	16-QAM	12	6	19.50	0-2	0
	836.5	20525	5	16-QAM	12	13	19.59	0-2	0
	836.5	20525	5	16-QAM	25	0	19.57	0-2	0
High	846.5	20625	5	QPSK	1	0	19.78	0	0
	846.5	20625	5	QPSK	1	12	19.34	0	0
	846.5	20625	5	QPSK	1	24	19.62	0	0
	846.5	20625	5	QPSK	12	0	19.48	0-1	0
	846.5	20625	5	QPSK	12	6	19.30	0-1	0
	846.5	20625	5	QPSK	12	13	19.35	0-1	0
	846.5	20625	5	QPSK	25	0	19.43	0-1	0
	846.5	20625	5	16-QAM	1	0	19.86	0-1	0
	846.5	20625	5	16-QAM	1	12	19.63	0-1	0
	846.5	20625	5	16-QAM	1	24	19.87	0-1	0
	846.5	20625	5	16-QAM	12	0	19.43	0-2	0
	846.5	20625	5	16-QAM	12	6	19.30	0-2	0
	846.5	20625	5	16-QAM	12	13	19.31	0-2	0
	846.5	20625	5	16-QAM	25	0	19.36	0-2	0

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Table 8-11
Maximum LTE Band 5 (Cell) Conducted Powers - 3 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	825.5	20415	3	QPSK	1	0	23.21	0	0
	825.5	20415	3	QPSK	1	7	23.20	0	0
	825.5	20415	3	QPSK	1	14	23.21	0	0
	825.5	20415	3	QPSK	8	0	22.35	0-1	1
	825.5	20415	3	QPSK	8	4	22.31	0-1	1
	825.5	20415	3	QPSK	8	7	22.33	0-1	1
	825.5	20415	3	QPSK	15	0	22.31	0-1	1
	825.5	20415	3	16-QAM	1	0	22.47	0-1	1
	825.5	20415	3	16-QAM	1	7	22.45	0-1	1
	825.5	20415	3	16-QAM	1	14	22.39	0-1	1
	825.5	20415	3	16-QAM	8	0	21.29	0-2	2
	825.5	20415	3	16-QAM	8	4	21.28	0-2	2
	825.5	20415	3	16-QAM	8	7	21.26	0-2	2
	825.5	20415	3	16-QAM	15	0	21.36	0-2	2
Mid	836.5	20525	3	QPSK	1	0	23.29	0	0
	836.5	20525	3	QPSK	1	7	23.25	0	0
	836.5	20525	3	QPSK	1	14	23.22	0	0
	836.5	20525	3	QPSK	8	0	22.34	0-1	1
	836.5	20525	3	QPSK	8	4	22.33	0-1	1
	836.5	20525	3	QPSK	8	7	22.34	0-1	1
	836.5	20525	3	QPSK	15	0	22.33	0-1	1
	836.5	20525	3	16-QAM	1	0	22.63	0-1	1
	836.5	20525	3	16-QAM	1	7	22.64	0-1	1
	836.5	20525	3	16-QAM	1	14	22.63	0-1	1
	836.5	20525	3	16-QAM	8	0	21.38	0-2	2
	836.5	20525	3	16-QAM	8	4	21.39	0-2	2
	836.5	20525	3	16-QAM	8	7	21.36	0-2	2
	836.5	20525	3	16-QAM	15	0	21.39	0-2	2
High	847.5	20635	3	QPSK	1	0	23.30	0	0
	847.5	20635	3	QPSK	1	7	23.35	0	0
	847.5	20635	3	QPSK	1	14	23.29	0	0
	847.5	20635	3	QPSK	8	0	22.35	0-1	1
	847.5	20635	3	QPSK	8	4	22.30	0-1	1
	847.5	20635	3	QPSK	8	7	22.28	0-1	1
	847.5	20635	3	QPSK	15	0	22.39	0-1	1
	847.5	20635	3	16-QAM	1	0	22.35	0-1	1
	847.5	20635	3	16-QAM	1	7	22.31	0-1	1
	847.5	20635	3	16-QAM	1	14	22.27	0-1	1
	847.5	20635	3	16-QAM	8	0	21.38	0-2	2
	847.5	20635	3	16-QAM	8	4	21.33	0-2	2
	847.5	20635	3	16-QAM	8	7	21.39	0-2	2
	847.5	20635	3	16-QAM	15	0	21.30	0-2	2

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Table 8-12
Reduced LTE Band 5 (Cell) Conducted Powers - 3 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	825.5	20415	3	QPSK	1	0	19.33	0	0
	825.5	20415	3	QPSK	1	7	19.36	0	0
	825.5	20415	3	QPSK	1	14	19.34	0	0
	825.5	20415	3	QPSK	8	0	19.47	0-1	0
	825.5	20415	3	QPSK	8	4	19.47	0-1	0
	825.5	20415	3	QPSK	8	7	19.46	0-1	0
	825.5	20415	3	QPSK	15	0	19.49	0-1	0
	825.5	20415	3	16-QAM	1	0	19.63	0-1	0
	825.5	20415	3	16-QAM	1	7	19.62	0-1	0
	825.5	20415	3	16-QAM	1	14	19.56	0-1	0
	825.5	20415	3	16-QAM	8	0	19.59	0-2	0
	825.5	20415	3	16-QAM	8	4	19.54	0-2	0
	825.5	20415	3	16-QAM	8	7	19.57	0-2	0
Mid	836.5	20525	3	QPSK	1	0	19.44	0	0
	836.5	20525	3	QPSK	1	7	19.43	0	0
	836.5	20525	3	QPSK	1	14	19.43	0	0
	836.5	20525	3	QPSK	8	0	19.53	0-1	0
	836.5	20525	3	QPSK	8	4	19.54	0-1	0
	836.5	20525	3	QPSK	8	7	19.50	0-1	0
	836.5	20525	3	QPSK	15	0	19.51	0-1	0
	836.5	20525	3	16-QAM	1	0	19.82	0-1	0
	836.5	20525	3	16-QAM	1	7	19.79	0-1	0
	836.5	20525	3	16-QAM	1	14	19.81	0-1	0
	836.5	20525	3	16-QAM	8	0	19.49	0-2	0
	836.5	20525	3	16-QAM	8	4	19.50	0-2	0
	836.5	20525	3	16-QAM	8	7	19.49	0-2	0
High	847.5	20635	3	QPSK	1	0	19.36	0	0
	847.5	20635	3	QPSK	1	7	19.32	0	0
	847.5	20635	3	QPSK	1	14	19.29	0	0
	847.5	20635	3	QPSK	8	0	19.41	0-1	0
	847.5	20635	3	QPSK	8	4	19.37	0-1	0
	847.5	20635	3	QPSK	8	7	19.39	0-1	0
	847.5	20635	3	QPSK	15	0	19.37	0-1	0
	847.5	20635	3	16-QAM	1	0	19.54	0-1	0
	847.5	20635	3	16-QAM	1	7	19.53	0-1	0
	847.5	20635	3	16-QAM	1	14	19.44	0-1	0
	847.5	20635	3	16-QAM	8	0	19.30	0-2	0
	847.5	20635	3	16-QAM	8	4	19.30	0-2	0
	847.5	20635	3	16-QAM	8	7	19.27	0-2	0
	847.5	20635	3	16-QAM	15	0	19.39	0-2	0

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Table 8-13
Maximum LTE Band 5 (Cell) Conducted Powers - 1.4 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	824.7	20407	1.4	QPSK	1	0	23.35	0	0
	824.7	20407	1.4	QPSK	1	2	23.32	0	0
	824.7	20407	1.4	QPSK	1	5	23.32	0	0
	824.7	20407	1.4	QPSK	3	0	23.37	0	0
	824.7	20407	1.4	QPSK	3	2	23.38	0	0
	824.7	20407	1.4	QPSK	3	3	23.40	0	0
	824.7	20407	1.4	QPSK	6	0	22.56	0-1	1
	824.7	20407	1.4	16-QAM	1	0	22.52	0-1	1
	824.7	20407	1.4	16-QAM	1	2	22.51	0-1	1
	824.7	20407	1.4	16-QAM	1	5	22.52	0-1	1
	824.7	20407	1.4	16-QAM	3	0	22.59	0-1	1
	824.7	20407	1.4	16-QAM	3	2	22.55	0-1	1
	824.7	20407	1.4	16-QAM	3	3	22.53	0-1	1
Mid	836.5	20525	1.4	QPSK	1	0	23.48	0	0
	836.5	20525	1.4	QPSK	1	2	23.47	0	0
	836.5	20525	1.4	QPSK	1	5	23.47	0	0
	836.5	20525	1.4	QPSK	3	0	23.41	0	0
	836.5	20525	1.4	QPSK	3	2	23.39	0	0
	836.5	20525	1.4	QPSK	3	3	23.41	0	0
	836.5	20525	1.4	QPSK	6	0	22.40	0-1	1
	836.5	20525	1.4	16-QAM	1	0	22.33	0-1	1
	836.5	20525	1.4	16-QAM	1	2	22.32	0-1	1
	836.5	20525	1.4	16-QAM	1	5	22.31	0-1	1
	836.5	20525	1.4	16-QAM	3	0	22.51	0-1	1
	836.5	20525	1.4	16-QAM	3	2	22.53	0-1	1
	836.5	20525	1.4	16-QAM	3	3	22.55	0-1	1
	836.5	20525	1.4	16-QAM	6	0	21.61	0-2	2
High	848.3	20643	1.4	QPSK	1	0	23.31	0	0
	848.3	20643	1.4	QPSK	1	2	23.30	0	0
	848.3	20643	1.4	QPSK	1	5	23.31	0	0
	848.3	20643	1.4	QPSK	3	0	23.39	0	0
	848.3	20643	1.4	QPSK	3	2	23.38	0	0
	848.3	20643	1.4	QPSK	3	3	23.41	0	0
	848.3	20643	1.4	QPSK	6	0	22.37	0-1	1
	848.3	20643	1.4	16-QAM	1	0	22.53	0-1	1
	848.3	20643	1.4	16-QAM	1	2	22.52	0-1	1
	848.3	20643	1.4	16-QAM	1	5	22.53	0-1	1
	848.3	20643	1.4	16-QAM	3	0	22.55	0-1	1
	848.3	20643	1.4	16-QAM	3	2	22.53	0-1	1
	848.3	20643	1.4	16-QAM	3	3	22.56	0-1	1
	848.3	20643	1.4	16-QAM	6	0	21.48	0-2	2

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Table 8-14
Reduced LTE Band 5 (Cell) Conducted Powers -1.4 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	824.7	20407	1.4	QPSK	1	0	19.47	0	0
	824.7	20407	1.4	QPSK	1	2	19.48	0	0
	824.7	20407	1.4	QPSK	1	5	19.50	0	0
	824.7	20407	1.4	QPSK	3	0	19.55	0	0
	824.7	20407	1.4	QPSK	3	2	19.58	0	0
	824.7	20407	1.4	QPSK	3	3	19.59	0	0
	824.7	20407	1.4	QPSK	6	0	19.54	0-1	0
	824.7	20407	1.4	16-QAM	1	0	19.71	0-1	0
	824.7	20407	1.4	16-QAM	1	2	19.70	0-1	0
	824.7	20407	1.4	16-QAM	1	5	19.69	0-1	0
	824.7	20407	1.4	16-QAM	3	0	19.72	0-1	0
	824.7	20407	1.4	16-QAM	3	2	19.69	0-1	0
	824.7	20407	1.4	16-QAM	3	3	19.70	0-1	0
Mid	836.5	20525	1.4	QPSK	1	0	19.69	0	0
	836.5	20525	1.4	QPSK	1	2	19.66	0	0
	836.5	20525	1.4	QPSK	1	5	19.67	0	0
	836.5	20525	1.4	QPSK	3	0	19.54	0	0
	836.5	20525	1.4	QPSK	3	2	19.52	0	0
	836.5	20525	1.4	QPSK	3	3	19.52	0	0
	836.5	20525	1.4	QPSK	6	0	19.55	0-1	0
	836.5	20525	1.4	16-QAM	1	0	19.42	0-1	0
	836.5	20525	1.4	16-QAM	1	2	19.43	0-1	0
	836.5	20525	1.4	16-QAM	1	5	19.41	0-1	0
	836.5	20525	1.4	16-QAM	3	0	19.62	0-1	0
	836.5	20525	1.4	16-QAM	3	2	19.65	0-1	0
	836.5	20525	1.4	16-QAM	3	3	19.65	0-1	0
	836.5	20525	1.4	16-QAM	6	0	19.69	0-2	0
High	848.3	20643	1.4	QPSK	1	0	19.33	0	0
	848.3	20643	1.4	QPSK	1	2	19.31	0	0
	848.3	20643	1.4	QPSK	1	5	19.30	0	0
	848.3	20643	1.4	QPSK	3	0	19.41	0	0
	848.3	20643	1.4	QPSK	3	2	19.40	0	0
	848.3	20643	1.4	QPSK	3	3	19.42	0	0
	848.3	20643	1.4	QPSK	6	0	19.41	0-1	0
	848.3	20643	1.4	16-QAM	1	0	19.56	0-1	0
	848.3	20643	1.4	16-QAM	1	2	19.58	0-1	0
	848.3	20643	1.4	16-QAM	1	5	19.56	0-1	0
	848.3	20643	1.4	16-QAM	3	0	19.50	0-1	0
	848.3	20643	1.4	16-QAM	3	2	19.50	0-1	0
	848.3	20643	1.4	16-QAM	3	3	19.49	0-1	0
	848.3	20643	1.4	16-QAM	6	0	19.56	0-2	0

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LTE Band 4 (AWS)

Table 8-15
Maximum LTE Band 4 (AWS) Conducted Powers - 20 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	1732.5	20175	20	QPSK	1	0	23.56	0	0
	1732.5	20175	20	QPSK	1	50	23.34	0	0
	1732.5	20175	20	QPSK	1	99	23.11	0	0
	1732.5	20175	20	QPSK	50	0	22.54	0-1	1
	1732.5	20175	20	QPSK	50	25	22.51	0-1	1
	1732.5	20175	20	QPSK	50	50	22.23	0-1	1
	1732.5	20175	20	QPSK	100	0	22.21	0-1	1
	1732.5	20175	20	16QAM	1	0	22.96	0-1	1
	1732.5	20175	20	16QAM	1	50	22.74	0-1	1
	1732.5	20175	20	16QAM	1	99	22.49	0-1	1
	1732.5	20175	20	16QAM	50	0	21.57	0-2	2
	1732.5	20175	20	16QAM	50	25	21.32	0-2	2
	1732.5	20175	20	16QAM	50	50	21.23	0-2	2
	1732.5	20175	20	16QAM	100	0	21.36	0-2	2

Note: LTE Band 4 (AWS) at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-16
Reduced LTE Band 4 (AWS) Conducted Powers - 20 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	1732.5	20175	20	QPSK	1	0	12.78	0	0
	1732.5	20175	20	QPSK	1	50	12.52	0	0
	1732.5	20175	20	QPSK	1	99	12.11	0	0
	1732.5	20175	20	QPSK	50	0	12.89	0-1	0
	1732.5	20175	20	QPSK	50	25	12.62	0-1	0
	1732.5	20175	20	QPSK	50	50	12.52	0-1	0
	1732.5	20175	20	QPSK	100	0	12.62	0-1	0
	1732.5	20175	20	16QAM	1	0	13.00	0-1	0
	1732.5	20175	20	16QAM	1	50	12.87	0-1	0
	1732.5	20175	20	16QAM	1	99	12.53	0-1	0
	1732.5	20175	20	16QAM	50	0	12.76	0-2	0
	1732.5	20175	20	16QAM	50	25	12.61	0-2	0
	1732.5	20175	20	16QAM	50	50	12.48	0-2	0
	1732.5	20175	20	16QAM	100	0	12.58	0-2	0

Note: LTE Band 4 (AWS) at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-17
Maximum LTE Band 4 (AWS) Conducted Powers - 15 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1717.5	20025	15	QPSK	1	0	23.70	0	0
	1717.5	20025	15	QPSK	1	36	23.00	0	0
	1717.5	20025	15	QPSK	1	74	23.35	0	0
	1717.5	20025	15	QPSK	36	0	22.31	0-1	1
	1717.5	20025	15	QPSK	36	18	22.05	0-1	1
	1717.5	20025	15	QPSK	36	37	22.08	0-1	1
	1717.5	20025	15	QPSK	75	0	22.15	0-1	1
	1717.5	20025	15	16QAM	1	0	22.76	0-1	1
	1717.5	20025	15	16QAM	1	36	22.13	0-1	1
	1717.5	20025	15	16QAM	1	74	22.43	0-1	1
	1717.5	20025	15	16QAM	36	0	21.24	0-2	2
	1717.5	20025	15	16QAM	36	18	21.00	0-2	2
Mid	1717.5	20025	15	16QAM	36	37	21.01	0-2	2
	1717.5	20025	15	16QAM	75	0	21.13	0-2	2
	1732.5	20175	15	QPSK	1	0	23.65	0	0
	1732.5	20175	15	QPSK	1	36	23.56	0	0
	1732.5	20175	15	QPSK	1	74	23.27	0	0
	1732.5	20175	15	QPSK	36	0	22.27	0-1	1
	1732.5	20175	15	QPSK	36	18	22.08	0-1	1
	1732.5	20175	15	QPSK	36	37	22.04	0-1	1
	1732.5	20175	15	QPSK	75	0	22.00	0-1	1
	1732.5	20175	15	16QAM	1	0	23.00	0-1	1
	1732.5	20175	15	16QAM	1	36	22.18	0-1	1
	1732.5	20175	15	16QAM	1	74	22.48	0-1	1
High	1732.5	20175	15	16QAM	36	0	21.18	0-2	2
	1732.5	20175	15	16QAM	36	18	21.14	0-2	2
	1732.5	20175	15	16QAM	36	37	21.15	0-2	2
	1732.5	20175	15	16QAM	75	0	21.06	0-2	2
	1747.5	20325	15	QPSK	1	0	23.57	0	0
	1747.5	20325	15	QPSK	1	36	23.49	0	0
	1747.5	20325	15	QPSK	1	74	23.31	0	0
	1747.5	20325	15	QPSK	36	0	22.06	0-1	1
	1747.5	20325	15	QPSK	36	18	22.11	0-1	1
	1747.5	20325	15	QPSK	36	37	22.21	0-1	1
	1747.5	20325	15	QPSK	75	0	22.13	0-1	1
	1747.5	20325	15	16QAM	1	0	22.58	0-1	1
	1747.5	20325	15	16QAM	1	36	22.12	0-1	1
	1747.5	20325	15	16QAM	1	74	22.24	0-1	1
	1747.5	20325	15	16QAM	36	0	21.01	0-2	2
	1747.5	20325	15	16QAM	36	18	21.03	0-2	2
	1747.5	20325	15	16QAM	36	37	21.08	0-2	2
	1747.5	20325	15	16QAM	75	0	21.07	0-2	2
	1747.5	20325	15	16QAM	75	0	21.07	0-2	2

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Table 8-18
Reduced LTE Band 4 (AWS) Conducted Powers - 15 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1717.5	20025	15	QPSK	1	0	12.53	0	0
	1717.5	20025	15	QPSK	1	36	12.66	0	0
	1717.5	20025	15	QPSK	1	74	12.41	0	0
	1717.5	20025	15	QPSK	36	0	12.37	0-1	0
	1717.5	20025	15	QPSK	36	18	12.52	0-1	0
	1717.5	20025	15	QPSK	36	37	12.19	0-1	0
	1717.5	20025	15	QPSK	75	0	12.16	0-1	0
	1717.5	20025	15	16QAM	1	0	12.13	0-1	0
	1717.5	20025	15	16QAM	1	36	12.50	0-1	0
	1717.5	20025	15	16QAM	1	74	12.37	0-1	0
	1717.5	20025	15	16QAM	36	0	12.26	0-2	0
	1717.5	20025	15	16QAM	36	18	12.53	0-2	0
Mid	1732.5	20175	15	QPSK	1	0	12.55	0	0
	1732.5	20175	15	QPSK	1	36	12.52	0	0
	1732.5	20175	15	QPSK	1	74	12.86	0	0
	1732.5	20175	15	QPSK	36	0	12.92	0-1	0
	1732.5	20175	15	QPSK	36	18	12.61	0-1	0
	1732.5	20175	15	QPSK	36	37	12.67	0-1	0
	1732.5	20175	15	QPSK	75	0	12.78	0-1	0
	1732.5	20175	15	16QAM	1	0	12.96	0-1	0
	1732.5	20175	15	16QAM	1	36	12.91	0-1	0
	1732.5	20175	15	16QAM	1	74	12.81	0-1	0
	1732.5	20175	15	16QAM	36	0	12.18	0-2	0
	1732.5	20175	15	16QAM	36	18	12.41	0-2	0
High	1747.5	20325	15	QPSK	1	0	12.27	0	0
	1747.5	20325	15	QPSK	1	36	12.39	0	0
	1747.5	20325	15	QPSK	1	74	12.46	0	0
	1747.5	20325	15	QPSK	36	0	12.04	0-1	0
	1747.5	20325	15	QPSK	36	18	12.30	0-1	0
	1747.5	20325	15	QPSK	36	37	12.34	0-1	0
	1747.5	20325	15	QPSK	75	0	12.00	0-1	0
	1747.5	20325	15	16QAM	1	0	12.48	0-1	0
	1747.5	20325	15	16QAM	1	36	12.83	0-1	0
	1747.5	20325	15	16QAM	1	74	12.63	0-1	0
	1747.5	20325	15	16QAM	36	0	12.06	0-2	0
	1747.5	20325	15	16QAM	36	18	12.32	0-2	0
	1747.5	20325	15	16QAM	36	37	12.18	0-2	0
	1747.5	20325	15	16QAM	75	0	12.29	0-2	0

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Table 8-11
Maximum LTE Band 4 (AWS) Conducted Powers - 10 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1715	20000	10	QPSK	1	0	23.40	0	0
	1715	20000	10	QPSK	1	25	23.00	0	0
	1715	20000	10	QPSK	1	49	23.18	0	0
	1715	20000	10	QPSK	25	0	22.06	0-1	1
	1715	20000	10	QPSK	25	12	22.16	0-1	1
	1715	20000	10	QPSK	25	25	22.12	0-1	1
	1715	20000	10	QPSK	50	0	22.02	0-1	1
	1715	20000	10	16QAM	1	0	22.19	0-1	1
	1715	20000	10	16QAM	1	25	22.13	0-1	1
	1715	20000	10	16QAM	1	49	22.02	0-1	1
	1715	20000	10	16QAM	25	0	21.13	0-2	2
	1715	20000	10	16QAM	25	12	21.18	0-2	2
	1715	20000	10	16QAM	25	25	21.02	0-2	2
	1715	20000	10	16QAM	50	0	21.03	0-2	2
Mid	1732.5	20175	10	QPSK	1	0	23.13	0	0
	1732.5	20175	10	QPSK	1	25	23.16	0	0
	1732.5	20175	10	QPSK	1	49	23.05	0	0
	1732.5	20175	10	QPSK	25	0	22.04	0-1	1
	1732.5	20175	10	QPSK	25	12	22.08	0-1	1
	1732.5	20175	10	QPSK	25	25	22.14	0-1	1
	1732.5	20175	10	QPSK	50	0	22.11	0-1	1
	1732.5	20175	10	16QAM	1	0	22.04	0-1	1
	1732.5	20175	10	16QAM	1	25	22.02	0-1	1
	1732.5	20175	10	16QAM	1	49	22.12	0-1	1
	1732.5	20175	10	16QAM	25	0	21.06	0-2	2
	1732.5	20175	10	16QAM	25	12	21.09	0-2	2
	1732.5	20175	10	16QAM	25	25	21.04	0-2	2
	1732.5	20175	10	16QAM	50	0	21.08	0-2	2
High	1750	20350	10	QPSK	1	0	23.05	0	0
	1750	20350	10	QPSK	1	25	23.04	0	0
	1750	20350	10	QPSK	1	49	23.08	0	0
	1750	20350	10	QPSK	25	0	22.14	0-1	1
	1750	20350	10	QPSK	25	12	22.08	0-1	1
	1750	20350	10	QPSK	25	25	22.15	0-1	1
	1750	20350	10	QPSK	50	0	22.07	0-1	1
	1750	20350	10	16QAM	1	0	22.13	0-1	1
	1750	20350	10	16QAM	1	25	22.15	0-1	1
	1750	20350	10	16QAM	1	49	22.19	0-1	1
	1750	20350	10	16QAM	25	0	21.09	0-2	2
	1750	20350	10	16QAM	25	12	21.04	0-2	2
	1750	20350	10	16QAM	25	25	21.06	0-2	2
	1750	20350	10	16QAM	50	0	21.08	0-2	2

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Table 8-20
Reduced LTE Band 4 (AWS) Conducted Powers - 10 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1715	20000	10	QPSK	1	0	12.85	0	0
	1715	20000	10	QPSK	1	25	12.86	0	0
	1715	20000	10	QPSK	1	49	12.64	0	0
	1715	20000	10	QPSK	25	0	13.00	0-1	0
	1715	20000	10	QPSK	25	12	12.98	0-1	0
	1715	20000	10	QPSK	25	25	12.93	0-1	0
	1715	20000	10	QPSK	50	0	12.99	0-1	0
	1715	20000	10	16QAM	1	0	12.91	0-1	0
	1715	20000	10	16QAM	1	25	12.90	0-1	0
	1715	20000	10	16QAM	1	49	12.78	0-1	0
	1715	20000	10	16QAM	25	0	12.95	0-2	0
	1715	20000	10	16QAM	25	12	12.93	0-2	0
	1715	20000	10	16QAM	25	25	12.95	0-2	0
	1715	20000	10	16QAM	50	0	12.97	0-2	0
Mid	1732.5	20175	10	QPSK	1	0	12.84	0	0
	1732.5	20175	10	QPSK	1	25	12.74	0	0
	1732.5	20175	10	QPSK	1	49	12.60	0	0
	1732.5	20175	10	QPSK	25	0	12.94	0-1	0
	1732.5	20175	10	QPSK	25	12	12.93	0-1	0
	1732.5	20175	10	QPSK	25	25	12.83	0-1	0
	1732.5	20175	10	QPSK	50	0	12.89	0-1	0
	1732.5	20175	10	16QAM	1	0	12.96	0-1	0
	1732.5	20175	10	16QAM	1	25	12.89	0-1	0
	1732.5	20175	10	16QAM	1	49	12.70	0-1	0
	1732.5	20175	10	16QAM	25	0	12.95	0-2	0
	1732.5	20175	10	16QAM	25	12	12.91	0-2	0
	1732.5	20175	10	16QAM	25	25	12.87	0-2	0
	1732.5	20175	10	16QAM	50	0	12.93	0-2	0
High	1750	20350	10	QPSK	1	0	12.80	0	0
	1750	20350	10	QPSK	1	25	12.69	0	0
	1750	20350	10	QPSK	1	49	12.63	0	0
	1750	20350	10	QPSK	25	0	12.86	0-1	0
	1750	20350	10	QPSK	25	12	12.77	0-1	0
	1750	20350	10	QPSK	25	25	12.74	0-1	0
	1750	20350	10	QPSK	50	0	12.80	0-1	0
	1750	20350	10	16QAM	1	0	12.99	0-1	0
	1750	20350	10	16QAM	1	25	12.96	0-1	0
	1750	20350	10	16QAM	1	49	12.90	0-1	0
	1750	20350	10	16QAM	25	0	12.91	0-2	0
	1750	20350	10	16QAM	25	12	12.84	0-2	0
	1750	20350	10	16QAM	25	25	12.82	0-2	0
	1750	20350	10	16QAM	50	0	12.83	0-2	0

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Table 8-21
Maximum LTE Band 4 (AWS) Conducted Powers - 5 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1712.5	19975	5	QPSK	1	0	23.08	0	0
	1712.5	19975	5	QPSK	1	12	23.02	0	0
	1712.5	19975	5	QPSK	1	24	23.00	0	0
	1712.5	19975	5	QPSK	12	0	22.00	0-1	1
	1712.5	19975	5	QPSK	12	6	22.07	0-1	1
	1712.5	19975	5	QPSK	12	13	22.14	0-1	1
	1712.5	19975	5	QPSK	25	0	22.17	0-1	1
	1712.5	19975	5	16-QAM	1	0	22.38	0-1	1
	1712.5	19975	5	16-QAM	1	12	22.06	0-1	1
	1712.5	19975	5	16-QAM	1	24	22.33	0-1	1
	1712.5	19975	5	16-QAM	12	0	21.01	0-2	2
	1712.5	19975	5	16-QAM	12	6	21.18	0-2	2
Mid	1712.5	19975	5	16-QAM	12	13	21.12	0-2	2
	1712.5	19975	5	16-QAM	25	0	21.11	0-2	2
	1732.5	20175	5	QPSK	1	0	23.11	0	0
	1732.5	20175	5	QPSK	1	12	23.07	0	0
	1732.5	20175	5	QPSK	1	24	23.08	0	0
	1732.5	20175	5	QPSK	12	0	22.12	0-1	1
	1732.5	20175	5	QPSK	12	6	22.00	0-1	1
	1732.5	20175	5	QPSK	12	13	22.00	0-1	1
	1732.5	20175	5	QPSK	25	0	22.09	0-1	1
	1732.5	20175	5	16-QAM	1	0	22.26	0-1	1
	1732.5	20175	5	16-QAM	1	12	22.13	0-1	1
	1732.5	20175	5	16-QAM	1	24	22.10	0-1	1
High	1732.5	20175	5	16-QAM	12	0	21.07	0-2	2
	1732.5	20175	5	16-QAM	12	6	21.11	0-2	2
	1732.5	20175	5	16-QAM	12	13	21.17	0-2	2
	1732.5	20175	5	16-QAM	25	0	21.00	0-2	2
	1752.5	20375	5	QPSK	1	0	23.03	0	0
	1752.5	20375	5	QPSK	1	12	23.15	0	0
	1752.5	20375	5	QPSK	1	24	23.08	0	0
	1752.5	20375	5	QPSK	12	0	22.13	0-1	1
	1752.5	20375	5	QPSK	12	6	22.17	0-1	1
	1752.5	20375	5	QPSK	12	13	22.06	0-1	1
	1752.5	20375	5	QPSK	25	0	22.16	0-1	1
	1752.5	20375	5	16-QAM	1	0	22.09	0-1	1
	1752.5	20375	5	16-QAM	1	12	22.00	0-1	1
	1752.5	20375	5	16-QAM	1	24	22.10	0-1	1
	1752.5	20375	5	16-QAM	12	0	21.03	0-2	2
	1752.5	20375	5	16-QAM	12	6	21.09	0-2	2
	1752.5	20375	5	16-QAM	12	13	21.08	0-2	2
	1752.5	20375	5	16-QAM	25	0	21.04	0-2	2

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Table 8-22
Reduced LTE Band 4 (AWS) Conducted Powers - 5 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1712.5	19975	5	QPSK	1	0	12.15	0	0
	1712.5	19975	5	QPSK	1	12	12.18	0	0
	1712.5	19975	5	QPSK	1	24	12.05	0	0
	1712.5	19975	5	QPSK	12	0	12.11	0-1	0
	1712.5	19975	5	QPSK	12	6	12.06	0-1	0
	1712.5	19975	5	QPSK	12	13	12.04	0-1	0
	1712.5	19975	5	QPSK	25	0	12.06	0-1	0
	1712.5	19975	5	16-QAM	1	0	12.17	0-1	0
	1712.5	19975	5	16-QAM	1	12	12.03	0-1	0
	1712.5	19975	5	16-QAM	1	24	12.09	0-1	0
	1712.5	19975	5	16-QAM	12	0	12.17	0-2	0
	1712.5	19975	5	16-QAM	12	6	12.00	0-2	0
	1712.5	19975	5	16-QAM	12	13	12.09	0-2	0
Mid	1732.5	20175	5	QPSK	1	0	12.06	0	0
	1732.5	20175	5	QPSK	1	12	12.16	0	0
	1732.5	20175	5	QPSK	1	24	12.14	0	0
	1732.5	20175	5	QPSK	12	0	12.13	0-1	0
	1732.5	20175	5	QPSK	12	6	12.07	0-1	0
	1732.5	20175	5	QPSK	12	13	12.06	0-1	0
	1732.5	20175	5	QPSK	25	0	12.09	0-1	0
	1732.5	20175	5	16-QAM	1	0	12.06	0-1	0
	1732.5	20175	5	16-QAM	1	12	12.04	0-1	0
	1732.5	20175	5	16-QAM	1	24	12.11	0-1	0
	1732.5	20175	5	16-QAM	12	0	12.02	0-2	0
	1732.5	20175	5	16-QAM	12	6	12.05	0-2	0
	1732.5	20175	5	16-QAM	12	13	12.03	0-2	0
	1732.5	20175	5	16-QAM	25	0	12.15	0-2	0
High	1752.5	20375	5	QPSK	1	0	12.01	0	0
	1752.5	20375	5	QPSK	1	12	12.11	0	0
	1752.5	20375	5	QPSK	1	24	12.06	0	0
	1752.5	20375	5	QPSK	12	0	12.05	0-1	0
	1752.5	20375	5	QPSK	12	6	12.10	0-1	0
	1752.5	20375	5	QPSK	12	13	12.08	0-1	0
	1752.5	20375	5	QPSK	25	0	12.14	0-1	0
	1752.5	20375	5	16-QAM	1	0	12.21	0-1	0
	1752.5	20375	5	16-QAM	1	12	12.01	0-1	0
	1752.5	20375	5	16-QAM	1	24	12.15	0-1	0
	1752.5	20375	5	16-QAM	12	0	12.00	0-2	0
	1752.5	20375	5	16-QAM	12	6	12.05	0-2	0
	1752.5	20375	5	16-QAM	12	13	12.03	0-2	0
	1752.5	20375	5	16-QAM	25	0	12.08	0-2	0

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Table 8-23
Maximum LTE Band 4 (AWS) Conducted Powers - 3 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1711.5	19965	3	QPSK	1	0	23.30	0	0
	1711.5	19965	3	QPSK	1	7	23.32	0	0
	1711.5	19965	3	QPSK	1	14	23.24	0	0
	1711.5	19965	3	QPSK	8	0	22.27	0-1	1
	1711.5	19965	3	QPSK	8	4	22.25	0-1	1
	1711.5	19965	3	QPSK	8	7	22.26	0-1	1
	1711.5	19965	3	QPSK	15	0	22.29	0-1	1
	1711.5	19965	3	16-QAM	1	0	22.46	0-1	1
	1711.5	19965	3	16-QAM	1	7	22.43	0-1	1
	1711.5	19965	3	16-QAM	1	14	22.38	0-1	1
	1711.5	19965	3	16-QAM	8	0	21.42	0-2	2
	1711.5	19965	3	16-QAM	8	4	21.36	0-2	2
Mid	1711.5	19965	3	16-QAM	8	7	21.37	0-2	2
	1711.5	19965	3	16-QAM	15	0	21.27	0-2	2
	1732.5	20175	3	QPSK	1	0	23.20	0	0
	1732.5	20175	3	QPSK	1	7	23.17	0	0
	1732.5	20175	3	QPSK	1	14	23.11	0	0
	1732.5	20175	3	QPSK	8	0	22.11	0-1	1
	1732.5	20175	3	QPSK	8	4	22.12	0-1	1
	1732.5	20175	3	QPSK	8	7	22.06	0-1	1
	1732.5	20175	3	QPSK	15	0	22.13	0-1	1
	1732.5	20175	3	16-QAM	1	0	22.49	0-1	1
	1732.5	20175	3	16-QAM	1	7	22.46	0-1	1
	1732.5	20175	3	16-QAM	1	14	22.41	0-1	1
High	1732.5	20175	3	16-QAM	8	0	21.13	0-2	2
	1732.5	20175	3	16-QAM	8	4	21.05	0-2	2
	1732.5	20175	3	16-QAM	8	7	21.03	0-2	2
	1732.5	20175	3	16-QAM	15	0	21.12	0-2	2
	1753.5	20385	3	QPSK	1	0	23.03	0	0
	1753.5	20385	3	QPSK	1	7	23.00	0	0
	1753.5	20385	3	QPSK	1	14	23.02	0	0
	1753.5	20385	3	QPSK	8	0	22.02	0-1	1
	1753.5	20385	3	QPSK	8	4	22.06	0-1	1
	1753.5	20385	3	QPSK	8	7	22.02	0-1	1
	1753.5	20385	3	QPSK	15	0	22.01	0-1	1
	1753.5	20385	3	16-QAM	1	0	22.10	0-1	1
	1753.5	20385	3	16-QAM	1	7	22.08	0-1	1
	1753.5	20385	3	16-QAM	1	14	22.06	0-1	1
	1753.5	20385	3	16-QAM	8	0	21.05	0-2	2
	1753.5	20385	3	16-QAM	8	4	21.13	0-2	2
	1753.5	20385	3	16-QAM	8	7	21.16	0-2	2
	1753.5	20385	3	16-QAM	15	0	21.00	0-2	2

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Table 8-24
Reduced LTE Band 4 (AWS) Conducted Powers - 3 MHz Bandwidth
Representing at Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1711.5	19965	3	QPSK	1	0	12.99	0	0
	1711.5	19965	3	QPSK	1	7	12.95	0	0
	1711.5	19965	3	QPSK	1	14	12.92	0	0
	1711.5	19965	3	QPSK	8	0	12.93	0-1	0
	1711.5	19965	3	QPSK	8	4	12.94	0-1	0
	1711.5	19965	3	QPSK	8	7	12.95	0-1	0
	1711.5	19965	3	QPSK	15	0	12.99	0-1	0
	1711.5	19965	3	16-QAM	1	0	12.84	0-1	0
	1711.5	19965	3	16-QAM	1	7	12.86	0-1	0
	1711.5	19965	3	16-QAM	1	14	12.81	0-1	0
	1711.5	19965	3	16-QAM	8	0	12.98	0-2	0
	1711.5	19965	3	16-QAM	8	4	13.00	0-2	0
	1711.5	19965	3	16-QAM	8	7	12.99	0-2	0
	1711.5	19965	3	16-QAM	15	0	13.00	0-2	0
Mid	1732.5	20175	3	QPSK	1	0	12.81	0	0
	1732.5	20175	3	QPSK	1	7	12.78	0	0
	1732.5	20175	3	QPSK	1	14	12.63	0	0
	1732.5	20175	3	QPSK	8	0	12.83	0-1	0
	1732.5	20175	3	QPSK	8	4	12.82	0-1	0
	1732.5	20175	3	QPSK	8	7	12.79	0-1	0
	1732.5	20175	3	QPSK	15	0	12.83	0-1	0
	1732.5	20175	3	16-QAM	1	0	13.00	0-1	0
	1732.5	20175	3	16-QAM	1	7	12.91	0-1	0
	1732.5	20175	3	16-QAM	1	14	12.99	0-1	0
	1732.5	20175	3	16-QAM	8	0	12.93	0-2	0
	1732.5	20175	3	16-QAM	8	4	12.95	0-2	0
	1732.5	20175	3	16-QAM	8	7	12.91	0-2	0
	1732.5	20175	3	16-QAM	15	0	12.84	0-2	0
High	1753.5	20385	3	QPSK	1	0	12.63	0	0
	1753.5	20385	3	QPSK	1	7	12.72	0	0
	1753.5	20385	3	QPSK	1	14	12.58	0	0
	1753.5	20385	3	QPSK	8	0	12.74	0-1	0
	1753.5	20385	3	QPSK	8	4	12.76	0-1	0
	1753.5	20385	3	QPSK	8	7	12.73	0-1	0
	1753.5	20385	3	QPSK	15	0	12.75	0-1	0
	1753.5	20385	3	16-QAM	1	0	12.62	0-1	0
	1753.5	20385	3	16-QAM	1	7	12.72	0-1	0
	1753.5	20385	3	16-QAM	1	14	12.59	0-1	0
	1753.5	20385	3	16-QAM	8	0	12.74	0-2	0
	1753.5	20385	3	16-QAM	8	4	12.75	0-2	0
	1753.5	20385	3	16-QAM	8	7	12.73	0-2	0
	1753.5	20385	3	16-QAM	15	0	12.75	0-2	0

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Table 8-25
Maximum LTE Band 4 (AWS) Conducted Powers - 1.4 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1710.7	19957	1.4	QPSK	1	0	23.44	0	0
	1710.7	19957	1.4	QPSK	1	2	23.37	0	0
	1710.7	19957	1.4	QPSK	1	5	23.38	0	0
	1710.7	19957	1.4	QPSK	3	0	23.41	0	0
	1710.7	19957	1.4	QPSK	3	2	23.44	0	0
	1710.7	19957	1.4	QPSK	3	3	23.43	0	0
	1710.7	19957	1.4	QPSK	6	0	22.32	0-1	1
	1710.7	19957	1.4	16-QAM	1	0	22.46	0-1	1
	1710.7	19957	1.4	16-QAM	1	2	22.43	0-1	1
	1710.7	19957	1.4	16-QAM	1	5	22.44	0-1	1
	1710.7	19957	1.4	16-QAM	3	0	22.51	0-1	1
	1710.7	19957	1.4	16-QAM	3	2	22.48	0-1	1
Mid	1710.7	19957	1.4	16-QAM	3	3	22.53	0-1	1
	1710.7	19957	1.4	16-QAM	6	0	21.34	0-2	2
	1732.5	20175	1.4	QPSK	1	0	23.43	0	0
	1732.5	20175	1.4	QPSK	1	2	23.40	0	0
	1732.5	20175	1.4	QPSK	1	5	23.36	0	0
	1732.5	20175	1.4	QPSK	3	0	23.28	0	0
	1732.5	20175	1.4	QPSK	3	2	23.25	0	0
	1732.5	20175	1.4	QPSK	3	3	23.27	0	0
	1732.5	20175	1.4	QPSK	6	0	22.19	0-1	1
	1732.5	20175	1.4	16-QAM	1	0	22.10	0-1	1
	1732.5	20175	1.4	16-QAM	1	2	22.09	0-1	1
	1732.5	20175	1.4	16-QAM	1	5	22.08	0-1	1
High	1732.5	20175	1.4	16-QAM	3	0	22.27	0-1	1
	1732.5	20175	1.4	16-QAM	3	2	22.25	0-1	1
	1732.5	20175	1.4	16-QAM	3	3	22.30	0-1	1
	1732.5	20175	1.4	16-QAM	6	0	21.39	0-2	2
	1754.3	20393	1.4	QPSK	1	0	23.07	0	0
	1754.3	20393	1.4	QPSK	1	2	23.01	0	0
	1754.3	20393	1.4	QPSK	1	5	23.00	0	0
	1754.3	20393	1.4	QPSK	3	0	23.13	0	0
	1754.3	20393	1.4	QPSK	3	2	23.13	0	0
	1754.3	20393	1.4	QPSK	3	3	23.11	0	0
	1754.3	20393	1.4	QPSK	6	0	22.02	0-1	1
	1754.3	20393	1.4	16-QAM	1	0	22.17	0-1	1
	1754.3	20393	1.4	16-QAM	1	2	22.18	0-1	1
	1754.3	20393	1.4	16-QAM	1	5	22.21	0-1	1
	1754.3	20393	1.4	16-QAM	3	0	22.07	0-1	1
	1754.3	20393	1.4	16-QAM	3	2	22.04	0-1	1
	1754.3	20393	1.4	16-QAM	3	3	22.06	0-1	1
	1754.3	20393	1.4	16-QAM	6	0	21.08	0-2	2

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Table 8-26
Reduced LTE Band 4 (AWS) Conducted Powers - 1.4 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1710.7	19957	1.4	QPSK	1	0	12.95	0	0
	1710.7	19957	1.4	QPSK	1	2	12.94	0	0
	1710.7	19957	1.4	QPSK	1	5	13.00	0	0
	1710.7	19957	1.4	QPSK	3	0	12.97	0	0
	1710.7	19957	1.4	QPSK	3	2	12.96	0	0
	1710.7	19957	1.4	QPSK	3	3	12.97	0	0
	1710.7	19957	1.4	QPSK	6	0	12.99	0-1	0
	1710.7	19957	1.4	16-QAM	1	0	12.96	0-1	0
	1710.7	19957	1.4	16-QAM	1	2	12.98	0-1	0
	1710.7	19957	1.4	16-QAM	1	5	12.97	0-1	0
	1710.7	19957	1.4	16-QAM	3	0	13.00	0-1	0
	1710.7	19957	1.4	16-QAM	3	2	12.95	0-1	0
	1710.7	19957	1.4	16-QAM	3	3	12.94	0-1	0
Mid	1710.7	19957	1.4	16-QAM	6	0	12.97	0-2	0
	1732.5	20175	1.4	QPSK	1	0	12.87	0	0
	1732.5	20175	1.4	QPSK	1	2	12.86	0	0
	1732.5	20175	1.4	QPSK	1	5	12.85	0	0
	1732.5	20175	1.4	QPSK	3	0	12.92	0	0
	1732.5	20175	1.4	QPSK	3	2	12.91	0	0
	1732.5	20175	1.4	QPSK	3	3	12.88	0	0
	1732.5	20175	1.4	QPSK	6	0	12.91	0-1	0
	1732.5	20175	1.4	16-QAM	1	0	12.78	0-1	0
	1732.5	20175	1.4	16-QAM	1	2	12.79	0-1	0
	1732.5	20175	1.4	16-QAM	1	5	12.77	0-1	0
	1732.5	20175	1.4	16-QAM	3	0	13.00	0-1	0
	1732.5	20175	1.4	16-QAM	3	2	12.99	0-1	0
High	1732.5	20175	1.4	16-QAM	3	3	12.98	0-1	0
	1732.5	20175	1.4	16-QAM	6	0	12.98	0-2	0
	1754.3	20393	1.4	QPSK	1	0	12.83	0	0
	1754.3	20393	1.4	QPSK	1	2	12.81	0	0
	1754.3	20393	1.4	QPSK	1	5	12.77	0	0
	1754.3	20393	1.4	QPSK	3	0	12.86	0	0
	1754.3	20393	1.4	QPSK	3	2	12.84	0	0
	1754.3	20393	1.4	QPSK	3	3	12.83	0	0
	1754.3	20393	1.4	QPSK	6	0	12.86	0-1	0
	1754.3	20393	1.4	16-QAM	1	0	13.00	0-1	0
	1754.3	20393	1.4	16-QAM	1	2	12.90	0-1	0
	1754.3	20393	1.4	16-QAM	1	5	12.98	0-1	0
	1754.3	20393	1.4	16-QAM	3	0	12.96	0-1	0
	1754.3	20393	1.4	16-QAM	3	2	12.97	0-1	0
	1754.3	20393	1.4	16-QAM	3	3	12.99	0-1	0
	1754.3	20393	1.4	16-QAM	6	0	12.95	0-2	0

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LTE Band 2 (PCS)

Table 8-27
Maximum LTE Band 2 (PCS) Conducted Powers - 20 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1860	18700	20	QPSK	1	0	23.23	0	0
	1860	18700	20	QPSK	1	50	23.11	0	0
	1860	18700	20	QPSK	1	99	23.08	0	0
	1860	18700	20	QPSK	50	0	22.40	0-1	1
	1860	18700	20	QPSK	50	25	22.44	0-1	1
	1860	18700	20	QPSK	50	50	22.20	0-1	1
	1860	18700	20	QPSK	100	0	22.22	0-1	1
	1860	18700	20	16QAM	1	0	22.48	0-1	1
	1860	18700	20	16QAM	1	50	22.41	0-1	1
	1860	18700	20	16QAM	1	99	22.20	0-1	1
	1860	18700	20	16QAM	50	0	21.14	0-2	2
	1860	18700	20	16QAM	50	25	21.13	0-2	2
Mid	1860	18700	20	16QAM	50	50	21.10	0-2	2
	1860	18700	20	16QAM	100	0	21.13	0-2	2
	1880.0	18900	20	QPSK	1	0	23.50	0	0
	1880.0	18900	20	QPSK	1	50	23.41	0	0
	1880.0	18900	20	QPSK	1	99	23.30	0	0
	1880.0	18900	20	QPSK	50	0	22.48	0-1	1
	1880.0	18900	20	QPSK	50	25	22.42	0-1	1
	1880.0	18900	20	QPSK	50	50	22.41	0-1	1
	1880.0	18900	20	QPSK	100	0	22.39	0-1	1
	1880.0	18900	20	16QAM	1	0	22.91	0-1	1
	1880.0	18900	20	16QAM	1	50	22.86	0-1	1
	1880.0	18900	20	16QAM	1	99	22.73	0-1	1
High	1880.0	18900	20	16QAM	50	0	21.57	0-2	2
	1880.0	18900	20	16QAM	50	25	21.53	0-2	2
	1880.0	18900	20	16QAM	50	50	21.47	0-2	2
	1880.0	18900	20	16QAM	100	0	21.44	0-2	2
	1900	19100	20	QPSK	1	0	23.58	0	0
	1900	19100	20	QPSK	1	50	23.50	0	0
	1900	19100	20	QPSK	1	99	23.21	0	0
	1900	19100	20	QPSK	50	0	22.60	0-1	1
	1900	19100	20	QPSK	50	25	22.49	0-1	1
	1900	19100	20	QPSK	50	50	22.41	0-1	1
	1900	19100	20	QPSK	100	0	22.43	0-1	1
	1900	19100	20	16QAM	1	0	22.79	0-1	1
	1900	19100	20	16QAM	1	50	22.66	0-1	1
	1900	19100	20	16QAM	1	99	22.43	0-1	1
	1900	19100	20	16QAM	50	0	21.61	0-2	2
	1900	19100	20	16QAM	50	25	21.47	0-2	2
	1900	19100	20	16QAM	50	50	21.39	0-2	2
	1900	19100	20	16QAM	100	0	21.45	0-2	2

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Table 8-28
Reduced LTE Band 2 (PCS) Conducted Powers - 20 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1860	18700	20	QPSK	1	0	12.83	0	0
	1860	18700	20	QPSK	1	50	12.71	0	0
	1860	18700	20	QPSK	1	99	12.50	0	0
	1860	18700	20	QPSK	50	0	12.93	0-1	0
	1860	18700	20	QPSK	50	25	12.79	0-1	0
	1860	18700	20	QPSK	50	50	12.77	0-1	0
	1860	18700	20	QPSK	100	0	12.84	0-1	0
	1860	18700	20	16QAM	1	0	13.21	0-1	0
	1860	18700	20	16QAM	1	50	13.04	0-1	0
	1860	18700	20	16QAM	1	99	12.74	0-1	0
	1860	18700	20	16QAM	50	0	12.96	0-2	0
	1860	18700	20	16QAM	50	25	12.78	0-2	0
Mid	1860	18700	20	16QAM	50	50	12.73	0-2	0
	1860	18700	20	16QAM	100	0	12.86	0-2	0
	1880.0	18900	20	QPSK	1	0	12.78	0	0
	1880.0	18900	20	QPSK	1	50	12.90	0	0
	1880.0	18900	20	QPSK	1	99	12.52	0	0
	1880.0	18900	20	QPSK	50	0	13.02	0-1	0
	1880.0	18900	20	QPSK	50	25	12.96	0-1	0
	1880.0	18900	20	QPSK	50	50	12.90	0-1	0
	1880.0	18900	20	QPSK	100	0	12.89	0-1	0
	1880.0	18900	20	16QAM	1	0	13.09	0-1	0
	1880.0	18900	20	16QAM	1	50	13.20	0-1	0
	1880.0	18900	20	16QAM	1	99	12.84	0-1	0
High	1880.0	18900	20	16QAM	50	0	12.96	0-2	0
	1880.0	18900	20	16QAM	50	25	12.93	0-2	0
	1880.0	18900	20	16QAM	50	50	12.86	0-2	0
	1880.0	18900	20	16QAM	100	0	12.91	0-2	0
	1900	19100	20	QPSK	1	0	13.01	0	0
	1900	19100	20	QPSK	1	50	12.91	0	0
	1900	19100	20	QPSK	1	99	12.63	0	0
	1900	19100	20	QPSK	50	0	13.11	0-1	0
	1900	19100	20	QPSK	50	25	12.98	0-1	0
	1900	19100	20	QPSK	50	50	12.95	0-1	0
	1900	19100	20	QPSK	100	0	13.00	0-1	0
	1900	19100	20	16QAM	1	0	13.28	0-1	0
	1900	19100	20	16QAM	1	50	13.24	0-1	0
	1900	19100	20	16QAM	1	99	12.93	0-1	0
	1900	19100	20	16QAM	50	0	13.10	0-2	0
	1900	19100	20	16QAM	50	25	12.96	0-2	0
	1900	19100	20	16QAM	50	50	12.91	0-2	0
	1900	19100	20	16QAM	100	0	13.00	0-2	0

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Table 8-29
Maximum LTE Band 2 (PCS) Conducted Powers - 15 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1857.5	18675	15	QPSK	1	0	23.25	0	0
	1857.5	18675	15	QPSK	1	36	23.14	0	0
	1857.5	18675	15	QPSK	1	74	23.02	0	0
	1857.5	18675	15	QPSK	36	0	22.05	0-1	1
	1857.5	18675	15	QPSK	36	18	22.10	0-1	1
	1857.5	18675	15	QPSK	36	37	22.12	0-1	1
	1857.5	18675	15	QPSK	75	0	22.08	0-1	1
	1857.5	18675	15	16QAM	1	0	22.56	0-1	1
	1857.5	18675	15	16QAM	1	36	22.35	0-1	1
	1857.5	18675	15	16QAM	1	74	22.29	0-1	1
	1857.5	18675	15	16QAM	36	0	21.16	0-2	2
	1857.5	18675	15	16QAM	36	18	21.18	0-2	2
Mid	1857.5	18675	15	16QAM	36	37	21.07	0-2	2
	1857.5	18675	15	16QAM	75	0	21.12	0-2	2
	1880.0	18900	15	QPSK	1	0	23.54	0	0
	1880.0	18900	15	QPSK	1	36	23.40	0	0
	1880.0	18900	15	QPSK	1	74	23.37	0	0
	1880.0	18900	15	QPSK	36	0	22.08	0-1	1
	1880.0	18900	15	QPSK	36	18	22.04	0-1	1
	1880.0	18900	15	QPSK	36	37	22.06	0-1	1
	1880.0	18900	15	QPSK	75	0	22.00	0-1	1
	1880.0	18900	15	16QAM	1	0	22.55	0-1	1
	1880.0	18900	15	16QAM	1	36	22.02	0-1	1
	1880.0	18900	15	16QAM	1	74	22.48	0-1	1
High	1880.0	18900	15	16QAM	36	0	21.03	0-2	2
	1880.0	18900	15	16QAM	36	18	21.16	0-2	2
	1880.0	18900	15	16QAM	36	37	21.10	0-2	2
	1880.0	18900	15	16QAM	75	0	21.11	0-2	2
	1902.5	19125	15	QPSK	1	0	23.55	0	0
	1902.5	19125	15	QPSK	1	36	23.48	0	0
	1902.5	19125	15	QPSK	1	74	23.32	0	0
	1902.5	19125	15	QPSK	36	0	22.21	0-1	1
	1902.5	19125	15	QPSK	36	18	22.16	0-1	1
	1902.5	19125	15	QPSK	36	37	22.07	0-1	1
	1902.5	19125	15	QPSK	75	0	22.09	0-1	1
	1902.5	19125	15	16QAM	1	0	22.77	0-1	1
	1902.5	19125	15	16QAM	1	36	22.16	0-1	1
	1902.5	19125	15	16QAM	1	74	22.51	0-1	1
	1902.5	19125	15	16QAM	36	0	21.11	0-2	2
	1902.5	19125	15	16QAM	36	18	21.04	0-2	2
	1902.5	19125	15	16QAM	36	37	21.08	0-2	2
	1902.5	19125	15	16QAM	75	0	21.00	0-2	2

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Table 8-30
Reduced LTE Band 2 (PCS) Conducted Powers - 15 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1857.5	18675	15	QPSK	1	0	13.47	0	0
	1857.5	18675	15	QPSK	1	36	13.39	0	0
	1857.5	18675	15	QPSK	1	74	13.18	0	0
	1857.5	18675	15	QPSK	36	0	12.87	0-1	0
	1857.5	18675	15	QPSK	36	18	12.65	0-1	0
	1857.5	18675	15	QPSK	36	37	12.76	0-1	0
	1857.5	18675	15	QPSK	75	0	12.83	0-1	0
	1857.5	18675	15	16QAM	1	0	13.48	0-1	0
	1857.5	18675	15	16QAM	1	36	13.30	0-1	0
	1857.5	18675	15	16QAM	1	74	13.21	0-1	0
	1857.5	18675	15	16QAM	36	0	12.98	0-2	0
	1857.5	18675	15	16QAM	36	18	12.75	0-2	0
Mid	1857.5	18675	15	16QAM	36	37	12.79	0-2	0
	1857.5	18675	15	16QAM	75	0	12.81	0-2	0
	1880.0	18900	15	QPSK	1	0	13.25	0	0
	1880.0	18900	15	QPSK	1	36	13.11	0	0
	1880.0	18900	15	QPSK	1	74	13.07	0	0
	1880.0	18900	15	QPSK	36	0	13.01	0-1	0
	1880.0	18900	15	QPSK	36	18	12.82	0-1	0
	1880.0	18900	15	QPSK	36	37	12.86	0-1	0
	1880.0	18900	15	QPSK	75	0	12.91	0-1	0
	1880.0	18900	15	16QAM	1	0	13.48	0-1	0
	1880.0	18900	15	16QAM	1	36	13.47	0-1	0
	1880.0	18900	15	16QAM	1	74	13.43	0-1	0
High	1880.0	18900	15	16QAM	36	0	12.98	0-2	0
	1880.0	18900	15	16QAM	36	18	12.75	0-2	0
	1880.0	18900	15	16QAM	36	37	12.82	0-2	0
	1880.0	18900	15	16QAM	75	0	12.95	0-2	0
	1902.5	19125	15	QPSK	1	0	13.42	0	0
	1902.5	19125	15	QPSK	1	36	13.33	0	0
	1902.5	19125	15	QPSK	1	74	13.23	0	0
	1902.5	19125	15	QPSK	36	0	13.22	0-1	0
	1902.5	19125	15	QPSK	36	18	12.95	0-1	0
	1902.5	19125	15	QPSK	36	37	13.02	0-1	0
	1902.5	19125	15	QPSK	75	0	13.12	0-1	0
	1902.5	19125	15	16QAM	1	0	13.50	0-1	0
	1902.5	19125	15	16QAM	1	36	13.38	0-1	0
	1902.5	19125	15	16QAM	1	74	13.45	0-1	0
	1902.5	19125	15	16QAM	36	0	13.20	0-2	0
	1902.5	19125	15	16QAM	36	18	12.92	0-2	0
	1902.5	19125	15	16QAM	36	37	12.95	0-2	0
	1902.5	19125	15	16QAM	75	0	13.14	0-2	0

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Table 8-21
Maximum LTE Band 2 (PCS) Conducted Powers - 10 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1855	18650	10	QPSK	1	0	23.00	0	0
	1855	18650	10	QPSK	1	25	23.01	0	0
	1855	18650	10	QPSK	1	49	23.03	0	0
	1855	18650	10	QPSK	25	0	22.00	0-1	1
	1855	18650	10	QPSK	25	12	22.04	0-1	1
	1855	18650	10	QPSK	25	25	22.09	0-1	1
	1855	18650	10	QPSK	50	0	22.12	0-1	1
	1855	18650	10	16QAM	1	0	22.32	0-1	1
	1855	18650	10	16QAM	1	25	22.10	0-1	1
	1855	18650	10	16QAM	1	49	22.07	0-1	1
	1855	18650	10	16QAM	25	0	21.12	0-2	2
	1855	18650	10	16QAM	25	12	21.02	0-2	2
	1855	18650	10	16QAM	25	25	21.01	0-2	2
Mid	1855	18650	10	16QAM	50	0	21.05	0-2	2
	1880.0	18900	10	QPSK	1	0	23.19	0	0
	1880.0	18900	10	QPSK	1	25	23.10	0	0
	1880.0	18900	10	QPSK	1	49	23.09	0	0
	1880.0	18900	10	QPSK	25	0	22.15	0-1	1
	1880.0	18900	10	QPSK	25	12	22.14	0-1	1
	1880.0	18900	10	QPSK	25	25	22.16	0-1	1
	1880.0	18900	10	QPSK	50	0	22.19	0-1	1
	1880.0	18900	10	16QAM	1	0	22.39	0-1	1
	1880.0	18900	10	16QAM	1	25	22.42	0-1	1
	1880.0	18900	10	16QAM	1	49	22.32	0-1	1
	1880.0	18900	10	16QAM	25	0	21.14	0-2	2
	1880.0	18900	10	16QAM	25	12	21.11	0-2	2
	1880.0	18900	10	16QAM	25	25	21.12	0-2	2
High	1880.0	18900	10	16QAM	50	0	21.09	0-2	2
	1905	19150	10	QPSK	1	0	23.65	0	0
	1905	19150	10	QPSK	1	25	23.21	0	0
	1905	19150	10	QPSK	1	49	23.08	0	0
	1905	19150	10	QPSK	25	0	22.26	0-1	1
	1905	19150	10	QPSK	25	12	22.19	0-1	1
	1905	19150	10	QPSK	25	25	22.17	0-1	1
	1905	19150	10	QPSK	50	0	22.19	0-1	1
	1905	19150	10	16QAM	1	0	22.51	0-1	1
	1905	19150	10	16QAM	1	25	22.39	0-1	1
	1905	19150	10	16QAM	1	49	22.32	0-1	1
	1905	19150	10	16QAM	25	0	21.24	0-2	2
	1905	19150	10	16QAM	25	12	21.17	0-2	2
	1905	19150	10	16QAM	25	25	21.16	0-2	2
	1905	19150	10	16QAM	50	0	21.17	0-2	2

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Table 8-32
Reduced LTE Band 2 (PCS) Conducted Powers - 10 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1855	18650	10	QPSK	1	0	13.03	0	0
	1855	18650	10	QPSK	1	25	13.00	0	0
	1855	18650	10	QPSK	1	49	12.89	0	0
	1855	18650	10	QPSK	25	0	13.10	0-1	0
	1855	18650	10	QPSK	25	12	13.20	0-1	0
	1855	18650	10	QPSK	25	25	13.16	0-1	0
	1855	18650	10	QPSK	50	0	13.14	0-1	0
	1855	18650	10	16QAM	1	0	13.27	0-1	0
	1855	18650	10	16QAM	1	25	13.26	0-1	0
	1855	18650	10	16QAM	1	49	13.21	0-1	0
	1855	18650	10	16QAM	25	0	13.18	0-2	0
	1855	18650	10	16QAM	25	12	13.18	0-2	0
	1855	18650	10	16QAM	25	25	13.17	0-2	0
Mid	1855	18650	10	16QAM	50	0	13.14	0-2	0
	1880.0	18900	10	QPSK	1	0	13.20	0	0
	1880.0	18900	10	QPSK	1	25	13.15	0	0
	1880.0	18900	10	QPSK	1	49	13.13	0	0
	1880.0	18900	10	QPSK	25	0	13.30	0-1	0
	1880.0	18900	10	QPSK	25	12	13.26	0-1	0
	1880.0	18900	10	QPSK	25	25	13.22	0-1	0
	1880.0	18900	10	QPSK	50	0	13.24	0-1	0
	1880.0	18900	10	16QAM	1	0	13.13	0-1	0
	1880.0	18900	10	16QAM	1	25	13.12	0-1	0
	1880.0	18900	10	16QAM	1	49	13.03	0-1	0
	1880.0	18900	10	16QAM	25	0	13.26	0-2	0
	1880.0	18900	10	16QAM	25	12	13.23	0-2	0
High	1880.0	18900	10	16QAM	25	25	13.22	0-2	0
	1880.0	18900	10	16QAM	50	0	13.20	0-2	0
	1905	19150	10	QPSK	1	0	13.06	0	0
	1905	19150	10	QPSK	1	25	12.99	0	0
	1905	19150	10	QPSK	1	49	12.79	0	0
	1905	19150	10	QPSK	25	0	13.17	0-1	0
	1905	19150	10	QPSK	25	12	13.13	0-1	0
	1905	19150	10	QPSK	25	25	13.06	0-1	0
	1905	19150	10	QPSK	50	0	13.11	0-1	0
	1905	19150	10	16QAM	1	0	13.29	0-1	0
	1905	19150	10	16QAM	1	25	13.21	0-1	0
	1905	19150	10	16QAM	1	49	13.16	0-1	0
	1905	19150	10	16QAM	25	0	13.17	0-2	0
	1905	19150	10	16QAM	25	12	13.11	0-2	0
	1905	19150	10	16QAM	25	25	13.08	0-2	0
	1905	19150	10	16QAM	50	0	13.04	0-2	0

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Table 8-33
Maximum LTE Band 2 (PCS) Conducted Powers - 5 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1852.5	18625	5	QPSK	1	0	23.00	0	0
	1852.5	18625	5	QPSK	1	12	23.01	0	0
	1852.5	18625	5	QPSK	1	24	23.05	0	0
	1852.5	18625	5	QPSK	12	0	22.14	0-1	1
	1852.5	18625	5	QPSK	12	6	22.19	0-1	1
	1852.5	18625	5	QPSK	12	13	22.18	0-1	1
	1852.5	18625	5	QPSK	25	0	22.11	0-1	1
	1852.5	18625	5	16-QAM	1	0	22.15	0-1	1
	1852.5	18625	5	16-QAM	1	12	22.17	0-1	1
	1852.5	18625	5	16-QAM	1	24	22.04	0-1	1
	1852.5	18625	5	16-QAM	12	0	21.09	0-2	2
	1852.5	18625	5	16-QAM	12	6	21.03	0-2	2
	1852.5	18625	5	16-QAM	12	13	21.11	0-2	2
	1852.5	18625	5	16-QAM	25	0	21.15	0-2	2
Mid	1880.0	18900	5	QPSK	1	0	23.24	0	0
	1880.0	18900	5	QPSK	1	12	23.17	0	0
	1880.0	18900	5	QPSK	1	24	23.16	0	0
	1880.0	18900	5	QPSK	12	0	22.08	0-1	1
	1880.0	18900	5	QPSK	12	6	22.02	0-1	1
	1880.0	18900	5	QPSK	12	13	22.05	0-1	1
	1880.0	18900	5	QPSK	25	0	22.04	0-1	1
	1880.0	18900	5	16-QAM	1	0	22.43	0-1	1
	1880.0	18900	5	16-QAM	1	12	22.04	0-1	1
	1880.0	18900	5	16-QAM	1	24	22.40	0-1	1
	1880.0	18900	5	16-QAM	12	0	21.05	0-2	2
	1880.0	18900	5	16-QAM	12	6	21.02	0-2	2
	1880.0	18900	5	16-QAM	12	13	21.12	0-2	2
	1880.0	18900	5	16-QAM	25	0	21.14	0-2	2
High	1907.5	19175	5	QPSK	1	0	23.32	0	0
	1907.5	19175	5	QPSK	1	12	23.19	0	0
	1907.5	19175	5	QPSK	1	24	23.22	0	0
	1907.5	19175	5	QPSK	12	0	22.15	0-1	1
	1907.5	19175	5	QPSK	12	6	22.17	0-1	1
	1907.5	19175	5	QPSK	12	13	22.05	0-1	1
	1907.5	19175	5	QPSK	25	0	22.13	0-1	1
	1907.5	19175	5	16-QAM	1	0	22.58	0-1	1
	1907.5	19175	5	16-QAM	1	12	22.15	0-1	1
	1907.5	19175	5	16-QAM	1	24	22.40	0-1	1
	1907.5	19175	5	16-QAM	12	0	21.09	0-2	2
	1907.5	19175	5	16-QAM	12	6	21.08	0-2	2
	1907.5	19175	5	16-QAM	12	13	21.06	0-2	2
	1907.5	19175	5	16-QAM	25	0	21.08	0-2	2

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Table 8-34
Reduced LTE Band 2 (PCS) Conducted Powers - 5 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1852.5	18625	5	QPSK	1	0	13.08	0	0
	1852.5	18625	5	QPSK	1	12	13.01	0	0
	1852.5	18625	5	QPSK	1	24	13.04	0	0
	1852.5	18625	5	QPSK	12	0	12.92	0-1	0
	1852.5	18625	5	QPSK	12	6	12.74	0-1	0
	1852.5	18625	5	QPSK	12	13	12.86	0-1	0
	1852.5	18625	5	QPSK	25	0	12.84	0-1	0
	1852.5	18625	5	16-QAM	1	0	13.19	0-1	0
	1852.5	18625	5	16-QAM	1	12	13.12	0-1	0
	1852.5	18625	5	16-QAM	1	24	13.15	0-1	0
	1852.5	18625	5	16-QAM	12	0	12.95	0-2	0
	1852.5	18625	5	16-QAM	12	6	12.82	0-2	0
	1852.5	18625	5	16-QAM	12	13	12.92	0-2	0
	1852.5	18625	5	16-QAM	25	0	12.82	0-2	0
Mid	1880.0	18900	5	QPSK	1	0	13.08	0	0
	1880.0	18900	5	QPSK	1	12	12.89	0	0
	1880.0	18900	5	QPSK	1	24	13.04	0	0
	1880.0	18900	5	QPSK	12	0	12.93	0-1	0
	1880.0	18900	5	QPSK	12	6	12.82	0-1	0
	1880.0	18900	5	QPSK	12	13	12.99	0-1	0
	1880.0	18900	5	QPSK	25	0	12.98	0-1	0
	1880.0	18900	5	16-QAM	1	0	13.17	0-1	0
	1880.0	18900	5	16-QAM	1	12	12.13	0-1	0
	1880.0	18900	5	16-QAM	1	24	13.16	0-1	0
	1880.0	18900	5	16-QAM	12	0	13.08	0-2	0
	1880.0	18900	5	16-QAM	12	6	12.95	0-2	0
	1880.0	18900	5	16-QAM	12	13	13.02	0-2	0
	1880.0	18900	5	16-QAM	25	0	13.00	0-2	0
High	1907.5	19175	5	QPSK	1	0	13.28	0	0
	1907.5	19175	5	QPSK	1	12	13.17	0	0
	1907.5	19175	5	QPSK	1	24	13.16	0	0
	1907.5	19175	5	QPSK	12	0	13.13	0-1	0
	1907.5	19175	5	QPSK	12	6	13.01	0-1	0
	1907.5	19175	5	QPSK	12	13	13.08	0-1	0
	1907.5	19175	5	QPSK	25	0	13.13	0-1	0
	1907.5	19175	5	16-QAM	1	0	13.25	0-1	0
	1907.5	19175	5	16-QAM	1	12	13.20	0-1	0
	1907.5	19175	5	16-QAM	1	24	13.24	0-1	0
	1907.5	19175	5	16-QAM	12	0	13.09	0-2	0
	1907.5	19175	5	16-QAM	12	6	12.95	0-2	0
	1907.5	19175	5	16-QAM	12	13	13.02	0-2	0
	1907.5	19175	5	16-QAM	25	0	13.00	0-2	0

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Table 8-33
Maximum LTE Band 2 (PCS) Conducted Powers - 3 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1851.5	18615	3	QPSK	1	0	23.09	0	0
	1851.5	18615	3	QPSK	1	7	23.12	0	0
	1851.5	18615	3	QPSK	1	14	23.04	0	0
	1851.5	18615	3	QPSK	8	0	22.11	0-1	1
	1851.5	18615	3	QPSK	8	4	22.09	0-1	1
	1851.5	18615	3	QPSK	8	7	22.08	0-1	1
	1851.5	18615	3	QPSK	15	0	22.12	0-1	1
	1851.5	18615	3	16-QAM	1	0	22.30	0-1	1
	1851.5	18615	3	16-QAM	1	7	22.18	0-1	1
	1851.5	18615	3	16-QAM	1	14	22.18	0-1	1
	1851.5	18615	3	16-QAM	8	0	21.21	0-2	2
	1851.5	18615	3	16-QAM	8	4	21.11	0-2	2
	1851.5	18615	3	16-QAM	8	7	21.17	0-2	2
	1851.5	18615	3	16-QAM	15	0	21.10	0-2	2
Mid	1880.0	18900	3	QPSK	1	0	23.34	0	0
	1880.0	18900	3	QPSK	1	7	23.30	0	0
	1880.0	18900	3	QPSK	1	14	23.27	0	0
	1880.0	18900	3	QPSK	8	0	22.30	0-1	1
	1880.0	18900	3	QPSK	8	4	22.29	0-1	1
	1880.0	18900	3	QPSK	8	7	22.28	0-1	1
	1880.0	18900	3	QPSK	15	0	22.30	0-1	1
	1880.0	18900	3	16-QAM	1	0	22.61	0-1	1
	1880.0	18900	3	16-QAM	1	7	22.62	0-1	1
	1880.0	18900	3	16-QAM	1	14	22.56	0-1	1
	1880.0	18900	3	16-QAM	8	0	21.28	0-2	2
	1880.0	18900	3	16-QAM	8	4	21.26	0-2	2
	1880.0	18900	3	16-QAM	8	7	21.20	0-2	2
	1880.0	18900	3	16-QAM	15	0	21.26	0-2	2
High	1908.5	19185	3	QPSK	1	0	23.38	0	0
	1908.5	19185	3	QPSK	1	7	23.35	0	0
	1908.5	19185	3	QPSK	1	14	23.27	0	0
	1908.5	19185	3	QPSK	8	0	22.38	0-1	1
	1908.5	19185	3	QPSK	8	4	22.32	0-1	1
	1908.5	19185	3	QPSK	8	7	22.29	0-1	1
	1908.5	19185	3	QPSK	15	0	22.32	0-1	1
	1908.5	19185	3	16-QAM	1	0	22.48	0-1	1
	1908.5	19185	3	16-QAM	1	7	22.41	0-1	1
	1908.5	19185	3	16-QAM	1	14	22.29	0-1	1
	1908.5	19185	3	16-QAM	8	0	21.20	0-2	2
	1908.5	19185	3	16-QAM	8	4	21.22	0-2	2
	1908.5	19185	3	16-QAM	8	7	21.21	0-2	2
	1908.5	19185	3	16-QAM	15	0	21.32	0-2	2

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Table 8-36
Reduced LTE Band 2 (PCS) Conducted Powers - 3 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1851.5	18615	3	QPSK	1	0	12.76	0	0
	1851.5	18615	3	QPSK	1	7	12.69	0	0
	1851.5	18615	3	QPSK	1	14	12.70	0	0
	1851.5	18615	3	QPSK	8	0	12.89	0-1	0
	1851.5	18615	3	QPSK	8	4	12.83	0-1	0
	1851.5	18615	3	QPSK	8	7	12.84	0-1	0
	1851.5	18615	3	QPSK	15	0	12.84	0-1	0
	1851.5	18615	3	16-QAM	1	0	12.99	0-1	0
	1851.5	18615	3	16-QAM	1	7	12.95	0-1	0
	1851.5	18615	3	16-QAM	1	14	12.89	0-1	0
	1851.5	18615	3	16-QAM	8	0	12.74	0-2	0
	1851.5	18615	3	16-QAM	8	4	12.72	0-2	0
	1851.5	18615	3	16-QAM	8	7	12.73	0-2	0
Mid	1880.0	18900	3	QPSK	1	0	12.90	0	0
	1880.0	18900	3	QPSK	1	7	12.92	0	0
	1880.0	18900	3	QPSK	1	14	12.85	0	0
	1880.0	18900	3	QPSK	8	0	12.98	0-1	0
	1880.0	18900	3	QPSK	8	4	12.96	0-1	0
	1880.0	18900	3	QPSK	8	7	12.96	0-1	0
	1880.0	18900	3	QPSK	15	0	12.95	0-1	0
	1880.0	18900	3	16-QAM	1	0	13.21	0-1	0
	1880.0	18900	3	16-QAM	1	7	13.20	0-1	0
	1880.0	18900	3	16-QAM	1	14	13.21	0-1	0
	1880.0	18900	3	16-QAM	8	0	12.89	0-2	0
	1880.0	18900	3	16-QAM	8	4	12.86	0-2	0
	1880.0	18900	3	16-QAM	8	7	12.87	0-2	0
	1880.0	18900	3	16-QAM	15	0	12.97	0-2	0
High	1908.5	19185	3	QPSK	1	0	12.98	0	0
	1908.5	19185	3	QPSK	1	7	12.93	0	0
	1908.5	19185	3	QPSK	1	14	12.88	0	0
	1908.5	19185	3	QPSK	8	0	13.01	0-1	0
	1908.5	19185	3	QPSK	8	4	13.00	0-1	0
	1908.5	19185	3	QPSK	8	7	13.01	0-1	0
	1908.5	19185	3	QPSK	15	0	13.03	0-1	0
	1908.5	19185	3	16-QAM	1	0	13.06	0-1	0
	1908.5	19185	3	16-QAM	1	7	13.02	0-1	0
	1908.5	19185	3	16-QAM	1	14	12.97	0-1	0
	1908.5	19185	3	16-QAM	8	0	13.18	0-2	0
	1908.5	19185	3	16-QAM	8	4	13.11	0-2	0
	1908.5	19185	3	16-QAM	8	7	13.12	0-2	0
	1908.5	19185	3	16-QAM	15	0	13.04	0-2	0

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Table 8-37
Maximum LTE Band 2 (PCS) Conducted Powers - 1.4 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1850.7	18607	1.4	QPSK	1	0	23.18	0	0
	1850.7	18607	1.4	QPSK	1	2	23.12	0	0
	1850.7	18607	1.4	QPSK	1	5	23.13	0	0
	1850.7	18607	1.4	QPSK	3	0	23.25	0	0
	1850.7	18607	1.4	QPSK	3	2	23.24	0	0
	1850.7	18607	1.4	QPSK	3	3	23.22	0	0
	1850.7	18607	1.4	QPSK	6	0	22.15	0-1	1
	1850.7	18607	1.4	16-QAM	1	0	22.39	0-1	1
	1850.7	18607	1.4	16-QAM	1	2	22.36	0-1	1
	1850.7	18607	1.4	16-QAM	1	5	22.37	0-1	1
	1850.7	18607	1.4	16-QAM	3	0	22.24	0-1	1
	1850.7	18607	1.4	16-QAM	3	2	22.22	0-1	1
	1850.7	18607	1.4	16-QAM	3	3	22.20	0-1	1
	1850.7	18607	1.4	16-QAM	6	0	21.23	0-2	2
Mid	1880.0	18900	1.4	QPSK	1	0	23.52	0	0
	1880.0	18900	1.4	QPSK	1	2	23.49	0	0
	1880.0	18900	1.4	QPSK	1	5	23.54	0	0
	1880.0	18900	1.4	QPSK	3	0	23.45	0	0
	1880.0	18900	1.4	QPSK	3	2	23.43	0	0
	1880.0	18900	1.4	QPSK	3	3	23.43	0	0
	1880.0	18900	1.4	QPSK	6	0	22.35	0-1	1
	1880.0	18900	1.4	16-QAM	1	0	22.30	0-1	1
	1880.0	18900	1.4	16-QAM	1	2	22.32	0-1	1
	1880.0	18900	1.4	16-QAM	1	5	22.28	0-1	1
	1880.0	18900	1.4	16-QAM	3	0	22.48	0-1	1
	1880.0	18900	1.4	16-QAM	3	2	22.44	0-1	1
	1880.0	18900	1.4	16-QAM	3	3	22.46	0-1	1
	1880.0	18900	1.4	16-QAM	6	0	21.58	0-2	2
High	1909.3	19193	1.4	QPSK	1	0	23.41	0	0
	1909.3	19193	1.4	QPSK	1	2	23.43	0	0
	1909.3	19193	1.4	QPSK	1	5	23.38	0	0
	1909.3	19193	1.4	QPSK	3	0	23.45	0	0
	1909.3	19193	1.4	QPSK	3	2	23.47	0	0
	1909.3	19193	1.4	QPSK	3	3	23.44	0	0
	1909.3	19193	1.4	QPSK	6	0	22.36	0-1	1
	1909.3	19193	1.4	16-QAM	1	0	22.50	0-1	1
	1909.3	19193	1.4	16-QAM	1	2	22.45	0-1	1
	1909.3	19193	1.4	16-QAM	1	5	22.42	0-1	1
	1909.3	19193	1.4	16-QAM	3	0	22.57	0-1	1
	1909.3	19193	1.4	16-QAM	3	2	22.56	0-1	1
	1909.3	19193	1.4	16-QAM	3	3	22.55	0-1	1
	1909.3	19193	1.4	16-QAM	6	0	21.34	0-2	2

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Table 8-38
Reduced LTE Band 2 (PCS) Conducted Powers -1.4 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1850.7	18607	1.4	QPSK	1	0	12.82	0	0
	1850.7	18607	1.4	QPSK	1	2	12.80	0	0
	1850.7	18607	1.4	QPSK	1	5	12.79	0	0
	1850.7	18607	1.4	QPSK	3	0	12.92	0	0
	1850.7	18607	1.4	QPSK	3	2	12.91	0	0
	1850.7	18607	1.4	QPSK	3	3	12.94	0	0
	1850.7	18607	1.4	QPSK	6	0	12.93	0-1	0
	1850.7	18607	1.4	16-QAM	1	0	13.10	0-1	0
	1850.7	18607	1.4	16-QAM	1	2	13.09	0-1	0
	1850.7	18607	1.4	16-QAM	1	5	13.07	0-1	0
	1850.7	18607	1.4	16-QAM	3	0	13.06	0-1	0
	1850.7	18607	1.4	16-QAM	3	2	13.02	0-1	0
	1850.7	18607	1.4	16-QAM	3	3	13.05	0-1	0
	1850.7	18607	1.4	16-QAM	6	0	12.93	0-2	0
Mid	1880.0	18900	1.4	QPSK	1	0	13.13	0	0
	1880.0	18900	1.4	QPSK	1	2	13.16	0	0
	1880.0	18900	1.4	QPSK	1	5	13.15	0	0
	1880.0	18900	1.4	QPSK	3	0	13.02	0	0
	1880.0	18900	1.4	QPSK	3	2	13.07	0	0
	1880.0	18900	1.4	QPSK	3	3	13.03	0	0
	1880.0	18900	1.4	QPSK	6	0	13.06	0-1	0
	1880.0	18900	1.4	16-QAM	1	0	12.98	0-1	0
	1880.0	18900	1.4	16-QAM	1	2	12.96	0-1	0
	1880.0	18900	1.4	16-QAM	1	5	12.97	0-1	0
	1880.0	18900	1.4	16-QAM	3	0	13.12	0-1	0
	1880.0	18900	1.4	16-QAM	3	2	13.10	0-1	0
	1880.0	18900	1.4	16-QAM	3	3	13.14	0-1	0
	1880.0	18900	1.4	16-QAM	6	0	13.20	0-2	0
High	1909.3	19193	1.4	QPSK	1	0	13.00	0	0
	1909.3	19193	1.4	QPSK	1	2	13.01	0	0
	1909.3	19193	1.4	QPSK	1	5	12.97	0	0
	1909.3	19193	1.4	QPSK	3	0	13.08	0	0
	1909.3	19193	1.4	QPSK	3	2	13.09	0	0
	1909.3	19193	1.4	QPSK	3	3	13.08	0	0
	1909.3	19193	1.4	QPSK	6	0	13.10	0-1	0
	1909.3	19193	1.4	16-QAM	1	0	13.17	0-1	0
	1909.3	19193	1.4	16-QAM	1	2	13.22	0-1	0
	1909.3	19193	1.4	16-QAM	1	5	13.30	0-1	0
	1909.3	19193	1.4	16-QAM	3	0	13.18	0-1	0
	1909.3	19193	1.4	16-QAM	3	2	13.20	0-1	0
	1909.3	19193	1.4	16-QAM	3	3	13.18	0-1	0
	1909.3	19193	1.4	16-QAM	6	0	13.17	0-2	0

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8.3 LTE Carrier Aggregation Conducted Powers

Table 8-39
LTE Carrier Aggregation Conducted Powers
Maximum Band 17 (PCC) + Band 4 (SCC) 10 MHz BW

Band 17 (PCC) + Band 4 (SCC), 10 MHz				
710 MHz / ch.23790 + 2132.5 MHz / ch. 2175	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	1	0	23.41	23.51

Table 8-40
LTE Carrier Aggregation Conducted Powers
Reduced Band 17 (PCC) + Band 4 (SCC) 10 MHz BW - Representing Body at 0 mm

Band 17 (PCC) + Band 4 (SCC), 10 MHz				
710 MHz / ch.23790 + 2132.5 MHz / ch. 2175	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	25	0	20.42	20.49

Table 8-41
LTE Carrier Aggregation Conducted Powers
Maximum Band 17 (PCC) + Band 2 (SCC) 10 MHz BW

Band 17 (PCC) + Band 2 (SCC), 10 MHz				
710 MHz / ch.23790 + 1960 MHz / ch. 900	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	1	0	23.57	23.51

Table 8-42
LTE Carrier Aggregation Conducted Powers
Reduced Band 17 (PCC) + Band 2 (SCC) 10 MHz BW - Representing Body at 0 mm

Band 17 (PCC) + Band 2 (SCC), 10 MHz				
710 MHz / ch.23790 + 1960 MHz / ch. 900	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	25	0	20.41	20.49

Table 8-43
LTE Carrier Aggregation Conducted Powers
Maximum Band 4 (PCC) + Band 17 (SCC) 10 MHz BW

Band 4 (PCC) + Band 17 (SCC), 10 MHz				
1715 MHz / ch.20000 + 740 MHz / ch. 5790	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	1	0	23.59	23.40

Table 8-44
LTE Carrier Aggregation Conducted Powers
Reduced Band 4 (PCC) + Band 17 (SCC) 10 MHz BW - Representing Body at 0 mm

Band 4 (PCC) + Band 17 (SCC), 10 MHz				
1715 MHz / ch.20000 + 740 MHz / ch. 5790	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	25	0	12.91	13

Table 8-45
LTE Carrier Aggregation Conducted Powers
Maximum Band 4 (PCC) + Band 29 (SCC) 10 MHz BW

Band 4 (PCC) + Band 29 (SCC), 10 MHz				
1715 MHz / ch.20000 + 722.5 MHz / ch. 9715	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	1	0	23.61	23.40

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Table 8-46
LTE Carrier Aggregation Conducted Powers
Reduced Band 4 (PCC) + Band 29 (SCC) 10 MHz BW - Representing Body at 0 mm

Band 4 (PCC) + Band 29 (SCC), 10 MHz				
1715 MHz / ch.20000 + 722.5 MHz / ch. 9715	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	25	0	12.93	13

Table 8-47
LTE Carrier Aggregation Conducted Powers
Maximum Band 2 (PCC) + Band 17 (SCC) 10 MHz BW

Band 2 (PCC) + Band 17 (SCC), 10 MHz				
1905 MHz / ch.19150 + 740 MHz / ch. 5790	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	1	0	23.75	23.65

Table 8-48
LTE Carrier Aggregation Conducted Powers
Reduced Band 2 (PCC) + Band 17 (SCC) 10 MHz BW - Representing Body at 0 mm

Band 2 (PCC) + Band 17 (SCC), 10 MHz				
1880 MHz / ch.18900 + 740 MHz / ch. 5790	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	25	0	13.31	13.3

Table 8-49
LTE Carrier Aggregation Conducted Powers
Maximum Band 2 (PCC) + Band 29 (SCC) 10 MHz BW

Band 2 (PCC) + Band 29 (SCC), 10 MHz				
1905 MHz / ch.19150 + 722.5 MHz / ch. 9715	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	1	0	23.85	23.65

Table 8-50
LTE Carrier Aggregation Conducted Powers
Reduced Band 2 (PCC) + Band 29 (SCC) 10 MHz BW - Representing Body at 0 mm

Band 2 (PCC) + Band 29 (SCC), 10 MHz				
1880 MHz / ch.18900 + 722.5 MHz / ch. 9715	PCC UL# RB	PCC UL RB Offset	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)
	25	0	13.32	13.3

Notes:

1. The device does not support all Rel. 10 Carrier Aggregation features due to modem chipset limitation.
2. The device only supports downlink Carrier Aggregation. Uplink Carrier Aggregation is not supported.
Power measurements were performed with two DL carriers for the Release 8 configuration that had the highest out power (across all bandwidths, channels, and RB configuration) for each band.
3. This device only supports inter-band CA (B17+B4, B17+B2, B4+B17, B4+B29, B2+B17, B2+B29) with a maximum of 10 MHz of spectrum.
4. All control and acknowledge data is sent on uplink channels that operate identical to Rel. 8 specifications.
5. LTE B29 is only supported on the downlink for this device; LTE B2, B4, B5, B17 are supported on both the uplink and downlink for this device.

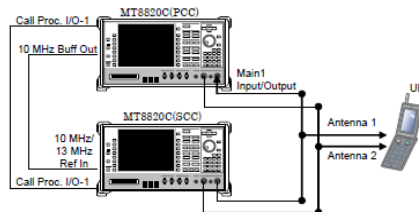


Figure 8-2
Power Measurement Setup

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8.4 WLAN Conducted Powers

Table 8-51
IEEE 802.11b Average RF Power

802.11b	Antenna	Mode	Freq [MHz]	Channel	802.11b Conducted Power [dBm]			
					Data Rate [Mbps]			
					1	2	5.5	11
Antenna 1	802.11b	2412	1*	11.85	11.93	11.93	11.95	
	802.11b	2437	6*	12.13	12.27	12.35	12.19	
	802.11b	2462	11*	11.79	11.96	11.97	11.99	
Antenna 2	802.11b	2412	1*	11.88	12.10	12.11	12.12	
	802.11b	2437	6*	12.35	12.44	12.41	12.42	
	802.11b	2462	11*	11.30	11.68	11.64	11.66	

Table 8-52
IEEE 802.11g Average RF Power

802.11g	Antenna	Mode	Freq [MHz]	Channel	802.11g Conducted Power [dBm]							
					Data Rate [Mbps]							
					6	9	12	18	24	36	48	54
Antenna 1	802.11g	2412	1	11.12	11.12	11.13	11.12	11.39	11.33	11.44	11.25	
	802.11g	2437	6	11.45	11.35	11.40	11.35	11.45	11.48	11.41	11.40	
	802.11g	2462	11	11.29	11.27	11.25	11.26	11.38	11.45	11.46	11.40	
Antenna 2	802.11g	2412	1	10.33	10.29	10.34	10.37	10.61	10.61	10.51	10.60	
	802.11g	2437	6	11.05	11.15	10.97	11.11	11.27	11.28	11.22	11.28	
	802.11g	2462	11	10.05	10.08	10.08	10.11	10.34	10.36	10.15	10.29	

Table 8-53
IEEE 802.11n Average RF Power

802.11n (2.4GHz)	Antenna	Mode	Freq [MHz]	Channel	802.11n (2.4GHz) Conducted Power [dBm]							
					Data Rate [Mbps]							
					6.5	13	19.5	26	39	52	58.5	65
Antenna 1	802.11n	2412	1	10.22	10.20	10.19	10.44	10.49	10.39	10.39	10.39	10.46
	802.11n	2437	6	10.46	10.48	10.48	10.44	10.42	10.41	10.47	10.45	
	802.11n	2462	11	10.25	10.26	10.29	10.39	10.40	10.49	10.43	10.46	
Antenna 2	802.11n	2412	1	9.00	9.01	9.05	9.28	9.26	9.21	9.27	9.30	
	802.11n	2437	6	9.59	9.56	9.63	9.84	9.88	9.88	9.80	10.01	
	802.11n	2462	11	8.66	8.64	8.60	8.96	8.83	8.91	8.76	8.79	

Table 8-54
MIMO IEEE 802.11n Average RF Power

802.11n (2.4GHz)	Antenna	Freq [MHz]	Channel	802.11n (2.4GHz) Conducted Power [dBm]	
				Data Rate [Mbps]	
				13	
MIMO	2412	1*	10.19		
	2437	6*	10.46		
	2462	11*	9.95		

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Table 8-55
IEEE 802.11a Average RF Power

802.11a	Antenna	Mode	Freq [MHz]	Channel	802.11a Conducted Power [dBm]							
					Data Rate [Mbps]							
					6	9	12	18	24	36	48	54
Antenna 1	802.11a	5180	36*	7.07	6.86	6.93	6.90	7.28	7.24	7.38	7.35	
	802.11a	5200	40	7.16	6.75	6.78	6.71	7.06	7.11	7.18	7.00	
	802.11a	5220	44	7.15	6.92	6.92	6.95	7.20	7.17	7.28	7.14	
	802.11a	5240	48*	7.04	6.88	6.85	6.88	7.30	7.14	7.30	7.24	
	802.11a	5260	52*	7.21	6.79	6.84	6.90	7.17	7.08	7.19	7.05	
	802.11a	5280	56	7.12	7.03	6.99	7.10	7.39	7.27	7.39	7.17	
	802.11a	5300	60	7.19	7.18	7.18	7.10	7.40	7.39	7.41	7.31	
	802.11a	5320	64*	7.00	6.81	6.79	6.75	7.23	7.07	7.23	7.13	
	802.11a	5500	100	7.31	7.14	7.22	7.23	7.54	7.49	7.64	7.42	
	802.11a	5520	104*	7.24	7.23	7.12	7.33	7.50	7.40	7.49	7.40	
	802.11a	5540	108	7.37	7.21	7.25	7.22	7.62	7.66	7.66	7.56	
	802.11a	5560	112	7.37	7.28	7.27	7.30	7.61	7.56	7.65	7.61	
	802.11a	5580	116*	7.22	7.16	7.18	7.05	7.53	7.44	7.39	7.17	
	802.11a	5600	120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11a	5620	124	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11a	5640	128	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11a	5660	132	7.20	7.33	7.13	7.06	7.51	7.32	7.54	7.33	
	802.11a	5680	136*	7.28	7.25	7.22	7.30	7.26	7.26	7.53	7.45	
	802.11a	5700	140	7.42	7.18	7.08	6.96	7.41	7.25	7.36	7.21	
	802.11a	5745	149*	7.14	7.00	7.15	7.05	7.24	7.15	7.24	7.04	
	802.11a	5765	153	7.29	7.26	7.19	7.17	7.47	7.23	7.43	7.21	
	802.11a	5785	157*	7.35	7.39	7.39	7.28	7.50	7.42	7.47	7.37	
	802.11a	5805	161	7.17	7.26	7.25	7.10	7.44	7.28	7.38	7.11	
	802.11a	5825	165*	7.05	6.98	7.05	7.05	7.35	7.26	7.25	7.11	
Antenna 2	802.11a	5180	36*	7.38	7.15	7.28	7.10	7.56	7.37	7.31	7.50	
	802.11a	5200	40	7.10	7.03	7.11	7.12	7.33	7.37	7.38	7.54	
	802.11a	5220	44	7.19	7.21	7.17	7.20	7.42	7.35	7.39	7.53	
	802.11a	5240	48*	7.05	7.08	7.06	7.05	7.40	7.20	7.28	7.30	
	802.11a	5260	52*	7.21	7.05	7.00	7.01	7.41	7.36	7.36	7.42	
	802.11a	5280	56	7.01	6.93	6.99	6.95	7.45	7.37	7.34	7.36	
	802.11a	5300	60	7.08	7.08	6.95	7.06	7.35	7.29	7.10	7.27	
	802.11a	5320	64*	7.05	6.96	6.97	6.96	7.30	7.13	7.20	7.30	
	802.11a	5500	100	6.98	7.02	6.98	6.97	7.22	7.31	7.10	7.31	
	802.11a	5520	104*	6.91	6.83	6.77	6.88	7.23	7.21	7.14	7.28	
	802.11a	5540	108	7.55	7.03	6.96	7.02	7.26	7.22	7.13	7.26	
	802.11a	5560	112	7.04	7.08	7.08	7.18	7.30	7.30	7.22	7.34	
	802.11a	5580	116*	6.97	6.78	6.79	6.81	7.11	7.11	7.00	7.24	
	802.11a	5600	120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11a	5620	124	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11a	5640	128	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11a	5660	132	6.88	6.78	6.95	6.87	7.20	7.17	7.14	7.30	
	802.11a	5680	136*	6.85	6.92	6.95	7.05	7.10	7.13	6.98	7.06	
	802.11a	5700	140	6.99	7.00	6.86	6.99	6.96	6.98	6.93	7.07	
	802.11a	5745	149*	7.22	7.30	7.23	7.25	7.52	7.50	7.54	7.52	
	802.11a	5765	153	7.16	6.88	6.84	6.85	7.22	7.21	7.28	7.32	
	802.11a	5785	157*	7.22	7.09	7.09	7.08	7.43	7.46	7.32	7.44	
	802.11a	5805	161	7.21	7.26	7.23	7.27	7.56	7.50	7.47	7.53	
	802.11a	5825	165*	7.35	7.21	7.20	7.16	7.57	7.44	7.50	7.51	

Per FCC KDB Publication 443999 and RSS-210 A9.2(3), transmission on channels which overlap the 5600-5650 MHz is prohibited as a client. This device does not transmit any beacons or initiate any transmissions in 5.3 and 5.5 GHz Band.

(*) – indicates default channels per KDB Publication 248227 D01v01r02. When the adjacent channels are higher in power than the default channels, these “required channels” are considered for SAR testing instead of the default channels.

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Table 8-56
IEEE 802.11n Average RF Power – 20 MHz Bandwidth

20MHz 802.11n (5GHz)	Antenna	Mode	Freq [MHz]	Channel	20MHz BW 802.11n (5GHz) Conducted Power [dBm]							
					Data Rate [Mbps]							
					6.5	13	19.5	26	39	52	58.5	65
Antenna 1	802.11n	5180	36	6.95	6.91	6.95	7.13	7.11	7.27	7.32	7.25	
	802.11n	5200	40	6.91	6.74	6.87	7.13	7.11	7.30	7.22	7.23	
	802.11n	5220	44	6.81	6.76	6.76	6.95	7.00	6.99	7.18	7.07	
	802.11n	5240	48	7.07	7.02	7.09	7.35	7.34	7.34	7.30	7.34	
	802.11n	5260	52	6.90	6.90	6.90	7.07	7.15	7.21	7.34	7.33	
	802.11n	5280	56	7.00	7.00	7.04	7.33	7.26	7.33	7.33	7.42	
	802.11n	5300	60	6.94	6.89	6.91	7.12	7.14	7.12	7.31	7.27	
	802.11n	5320	64	6.95	7.02	7.01	7.26	7.26	7.45	7.45	7.43	
	802.11n	5500	100	7.22	7.20	7.29	7.43	7.53	7.61	7.65	7.60	
	802.11n	5520	104	7.11	7.10	7.06	7.33	7.31	7.42	7.42	7.48	
	802.11n	5540	108	6.94	6.77	6.65	6.84	6.92	7.20	7.30	7.23	
	802.11n	5560	112	7.19	7.23	7.20	7.43	7.49	7.52	7.60	7.66	
	802.11n	5580	116	7.12	6.96	7.00	7.43	7.28	7.62	7.47	7.63	
	802.11n	5600	120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11n	5620	124	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11n	5640	128	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11n	5660	132	7.13	7.10	7.09	7.33	7.32	7.42	7.46	7.34	
	802.11n	5680	136	7.11	7.14	7.16	7.38	7.38	7.56	7.58	7.60	
	802.11n	5700	140	7.19	7.25	7.22	7.25	7.56	7.63	7.60	7.59	
	802.11n	5745	149	7.09	7.09	7.19	7.25	7.31	7.28	7.43	7.37	
	802.11n	5765	153	7.01	6.96	7.00	7.28	7.26	7.19	7.22	7.24	
	802.11n	5785	157	6.94	6.77	6.79	6.88	7.06	6.99	7.02	7.10	
	802.11n	5805	161	6.89	6.79	6.86	7.11	7.11	7.20	7.20	7.14	
	802.11n	5825	165	6.84	7.00	6.84	7.19	7.26	7.31	7.21	7.30	
Antenna 2	802.11n	5180	36	6.91	6.84	6.84	7.08	7.20	7.26	7.33	7.39	
	802.11n	5200	40	7.11	7.31	7.26	7.47	7.43	7.57	7.51	7.42	
	802.11n	5220	44	7.05	7.17	7.21	7.39	7.37	7.55	7.48	7.53	
	802.11n	5240	48	6.85	7.08	6.99	7.14	7.16	7.17	7.21	7.22	
	802.11n	5260	52	6.65	6.83	6.91	7.02	7.11	7.16	7.21	7.18	
	802.11n	5280	56	6.79	6.83	6.85	7.03	7.04	7.00	7.05	7.04	
	802.11n	5300	60	6.88	7.03	6.94	7.14	7.17	7.44	7.35	7.22	
	802.11n	5320	64	6.75	6.76	6.82	6.85	6.87	7.01	6.82	6.98	
	802.11n	5500	100	6.82	6.80	6.84	6.81	6.81	6.92	7.03	7.05	
	802.11n	5520	104	6.75	6.74	6.83	6.82	6.87	7.06	7.03	7.09	
	802.11n	5540	108	6.67	6.74	6.74	6.90	6.91	6.98	7.02	7.07	
	802.11n	5560	112	6.78	6.58	6.75	6.87	6.95	7.06	6.96	7.10	
	802.11n	5580	116	6.65	6.62	6.57	6.83	6.81	6.86	6.87	6.95	
	802.11n	5600	120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11n	5620	124	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11n	5640	128	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	802.11n	5660	132	6.62	6.52	6.45	6.67	6.57	6.83	6.79	6.81	
	802.11n	5680	136	6.56	6.45	6.51	6.52	6.47	6.68	6.74	6.74	
	802.11n	5700	140	6.50	6.52	6.57	6.47	6.57	6.50	6.56	6.58	
	802.11n	5745	149	6.94	6.93	7.01	7.29	7.13	7.42	7.41	7.40	
	802.11n	5765	153	7.02	7.07	7.17	7.38	7.35	7.52	7.46	7.52	
	802.11n	5785	157	6.95	7.00	6.89	6.98	7.19	7.25	7.29	7.21	
	802.11n	5805	161	6.91	6.90	7.00	7.21	7.29	7.40	7.28	7.28	
	802.11n	5825	165	6.92	6.84	6.90	7.12	7.16	7.35	7.28	7.27	

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Table 8-57
MIMO IEEE 802.11n Average RF Power – 20 MHz Bandwidth

20MHz 802.11n (5GHz)	Antenna	Mode	Freq [MHz]	Channel	802.11n (5GHz) Conducted Power [dBm]
					Data Rate [Mbps]
					13
MIMO		802.11n	5180	36*	6.82
		802.11n	5200	40	6.57
		802.11n	5220	44	6.34
		802.11n	5240	48*	6.04
		802.11n	5260	52*	6.02
		802.11n	5280	56	5.76
		802.11n	5300	60	5.57
		802.11n	5320	64*	5.59
		802.11n	5500	100	6.22
		802.11n	5520	104*	6.06
		802.11n	5540	108	6.17
		802.11n	5560	112	6.47
		802.11n	5580	116*	6.38
		802.11n	5600	120	N/A
		802.11n	5620	124	N/A
		802.11n	5640	128	N/A
		802.11n	5660	132	6.73
		802.11n	5680	136*	6.32
		802.11n	5700	140	6.80
		802.11n	5745	149*	7.92
		802.11n	5765	153	7.89
		802.11n	5785	157*	7.88
		802.11n	5805	161	7.90
		802.11n	5825	165*	7.97

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Table 8-58
IEEE 802.11n Average RF Power – 40 MHz Bandwidth

40MHz 802.11n (5GHz)	Antenna	Mode	Freq [MHz]	Channel	40MHz BW 802.11n (5GHz) Conducted Power [dBm]							
					Data Rate [Mbps]							
					13.5	27	40.5	54	81	108	121.5	135
Antenna 1	802.11n	5190	38	6.15	6.06	6.30	6.28	6.35	6.35	6.39	6.35	6.35
	802.11n	5230	46	6.52	6.51	6.56	6.82	6.80	6.92	6.93	6.89	6.89
	802.11n	5270	54	6.39	6.30	6.56	6.58	6.62	6.54	6.53	6.43	6.43
	802.11n	5310	62	6.08	6.17	6.16	6.33	6.35	6.35	6.24	6.14	6.14
	802.11n	5510	102	6.32	6.28	6.32	6.36	6.41	6.41	6.50	6.49	6.49
	802.11n	5550	110	6.21	6.14	6.17	6.27	6.47	6.39	6.37	6.40	6.40
	802.11n	5590	118	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	802.11n	5630	126	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	802.11n	5670	134	6.40	6.43	6.42	6.55	6.47	6.65	6.64	6.62	6.62
	802.11n	5755	151	7.35	7.40	7.39	7.45	7.48	7.54	7.58	7.42	7.42
	802.11n	5795	159	7.31	7.36	7.40	7.43	7.50	7.54	7.55	7.55	7.55
	802.11n	5190	38	6.06	6.39	6.10	6.33	6.41	6.49	6.52	6.53	6.53
	802.11n	5230	46	6.21	6.21	6.13	6.35	6.22	6.38	6.47	6.39	6.39
	802.11n	5270	54	6.02	6.14	6.10	6.05	6.05	6.22	6.05	6.18	6.18
	802.11n	5310	62	6.05	6.14	6.08	6.22	6.26	6.40	6.44	6.43	6.43
	802.11n	5510	102	7.20	7.26	7.12	7.24	7.28	7.21	7.28	7.31	7.31
	802.11n	5550	110	7.11	7.12	7.19	7.11	7.23	7.25	7.23	7.28	7.28
	802.11n	5590	118	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	802.11n	5630	126	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Antenna 2	802.11n	5670	134	7.15	7.22	7.20	7.22	7.27	7.31	7.33	7.30	7.30
	802.11n	5755	151	6.05	6.12	6.13	6.10	6.11	6.18	6.40	6.20	6.20
	802.11n	5795	159	6.03	6.06	6.01	6.14	6.18	6.27	6.39	6.34	6.34

Table 8-59
MIMO IEEE 802.11n Average RF Power – 40 MHz Bandwidth

40MHz 802.11n (5GHz)	Antenna	Mode	Freq [MHz]	Channel	40MHz 802.11n (5GHz) Conducted Power [dBm]
					Data Rate [Mbps]
					27
MIMO	802.11n	5190	38	6.31	6.31
	802.11n	5230	46	6.10	6.10
	802.11n	5270	54	5.33	5.33
	802.11n	5310	62	5.56	5.56
	802.11n	5510	102	5.55	5.55
	802.11n	5550	110	5.99	5.99
	802.11n	5590	118	N/A	N/A
	802.11n	5630	126	N/A	N/A
	802.11n	5670	134	6.95	6.95
	802.11n	5755	151	7.84	7.84
	802.11n	5795	159	7.73	7.73

Table 8-60
IEEE 802.11ac Average RF Power – 80 MHz Bandwidth

80MHz 802.11ac (5GHz)	Antenna	Mode	Freq [MHz]	Channel	80MHz BW 802.11ac (5GHz) Conducted Power [dBm]									
					Data Rate [Mbps]									
					29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
Antenna 1	802.11ac	5210	42	6.12	6.02	6.03	6.36	6.34	6.21	6.30	6.23	6.04	6.03	6.03
	802.11ac	5290	58	6.04	6.01	6.12	6.28	6.25	6.21	6.09	6.22	6.10	6.08	6.08
	802.11ac	5530	106	6.24	6.14	6.09	6.43	6.45	6.44	6.39	6.46	6.18	6.15	6.15
	802.11ac	5775	155	6.88	6.66	6.69	7.02	7.05	7.00	7.05	7.11	6.69	7.09	7.09
Antenna 2	802.11ac	5210	42	6.25	6.14	6.15	6.22	6.27	6.27	6.18	6.22	6.37	6.35	6.35
	802.11ac	5290	58	6.20	6.10	6.19	6.19	6.25	6.18	6.20	6.29	6.34	6.29	6.29
	802.11ac	5530	106	6.02	6.14	6.00	6.01	6.08	6.03	6.14	6.11	6.25	6.23	6.23
	802.11ac	5775	155	6.22	6.11	6.28	6.33	6.42	6.43	6.34	6.40	6.46	6.39	6.39

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Table 8-61
MIMO IEEE 802.11ac Average RF Power – 80 MHz Bandwidth

80MHz 802.11ac (5GHz)	Antenna	Mode	Freq [MHz]	Channel	80MHz 802.11ac (5GHz) Conducted Power [dBm]
					Data Rate [Mbps]
					58.5
	MIMO	802.11ac	5210	42	5.53
		802.11ac	5290	58	5.20
		802.11ac	5530	106	5.48
		802.11ac	5775	155	7.14

Per FCC KDB 662911 D01v02r01, the individual spectra for each 2x2 MIMO WIFI Antenna were summed mathematically in linear power units for the MIMO output power measurements.

Justification for reduced test configurations for WIFI channels per KDB Publication 248227 D01v01r02 and October 2012/April 2013 FCC/TCB Meeting Notes:

- For SISO 2.4 GHz, highest average RF output power channel for the lowest data rate for IEEE 802.11b were selected for SAR evaluation. Other IEEE 802.11 modes (including 802.11g/n) were not required since the average output powers over all channels and data rates were not more than 0.25 dB higher than the tested channel in the lowest data rate of IEEE 802.11b mode. The test configurations with the highest reported SAR were additionally evaluated for IEEE 802.11n.
- For MIMO 2.4 GHz, highest average RF output power channel for the lowest data rate for IEEE 802.11n was selected for SAR evaluation.
- 5 GHz WLAN SAR tests were excluded per FCC KDB 447498 D01v05.
- When the maximum extrapolated peak SAR of the zoom scan for the maximum output channel is <1.6 W/kg and the reported 1g averaged SAR is <0.8 W/kg, SAR testing on other channels is not required. Otherwise, the other default (or corresponding required) test channels were additionally tested using the lowest data rate.
- The bolded data rate and channel above were tested for SAR.

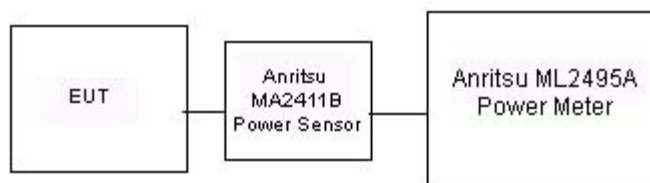


Figure 8-2
Power Measurement Setup for SISO Bandwidths < 50 MHz

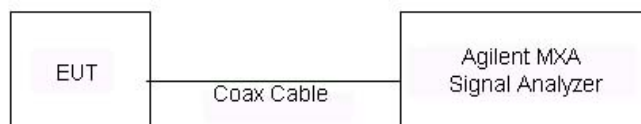


Figure 8-3
Power Measurement Setup for SISO Bandwidths > 50 MHz

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8.5 Bluetooth Conducted Powers

Table 8-62
Bluetooth RF Conducted Powers

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1	0	7.2	5.253
2441	1	39	9.61	9.138
2480	1	78	8.71	7.431
2402	2	0	3.36	2.167
2441	2	39	5.97	3.957
2480	2	78	5.24	3.342
2402	3	0	3.44	2.21
2441	3	39	6.02	3.995
2480	3	78	5.28	3.372

The bolded data rate and channel above were tested for SAR.

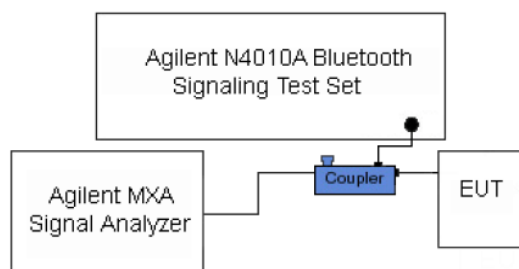


Figure 8-5
Power Measurement Setup

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9.1 Tissue Verification

Table 9-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (C°)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
7/14/2014	750B	22.3	710	0.965	56.510	0.960	55.687	0.52%	1.48%
			725	0.980	56.367	0.961	55.629	1.98%	1.33%
			740	0.994	56.241	0.963	55.570	3.22%	1.21%
			755	1.010	56.124	0.964	55.512	4.77%	1.10%
7/10/2014	835B	24.0	820	1.000	54.059	0.969	55.258	3.20%	-2.17%
			835	1.015	53.909	0.970	55.200	4.64%	-2.34%
			850	1.030	53.777	0.988	55.154	4.25%	-2.50%
7/10/2014	1750B	22.4	1710	1.473	51.109	1.463	53.537	0.68%	-4.54%
			1750	1.519	50.963	1.488	53.432	2.08%	-4.62%
			1790	1.562	50.799	1.514	53.326	3.17%	-4.74%
7/8/2014	1900B	23.9	1850	1.520	51.394	1.520	53.300	0.00%	-3.58%
			1880	1.555	51.320	1.520	53.300	2.30%	-3.71%
			1910	1.592	51.205	1.520	53.300	4.74%	-3.93%
4/14/2014	2450B	23.1	2401	1.962	52.784	1.903	52.765	3.10%	0.04%
			2450	2.031	52.620	1.950	52.700	4.15%	-0.15%
			2499	2.097	52.430	2.019	52.638	3.86%	-0.40%

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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9.2 Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix E.

Table 9-2
System Verification Results

System Verification TARGET & MEASURED												
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date:	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Dipole SN	Probe SN	Measured SAR _{1g} (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)
B	750	BODY	07/14/2014	24.2	22.5	0.100	1046	3288	0.886	8.540	8.860	3.75%
D	835	BODY	07/10/2014	24.5	24.0	0.100	4d119	3022	0.984	9.340	9.840	5.35%
C	1750	BODY	07/10/2014	22.5	22.4	0.100	1051	3213	4.030	37.400	40.300	7.75%
J	1900	BODY	07/08/2014	23.6	23.6	0.100	5d149	3332	4.360	40.500	43.600	7.65%
G	2450	BODY	04/14/2014	24.4	23.9	0.100	797	3258	4.890	49.400	48.900	-1.01%
G	2450	BODY	04/21/2014	24.3	23.0	0.100	797	3258	4.900	49.400	49.000	-0.81%

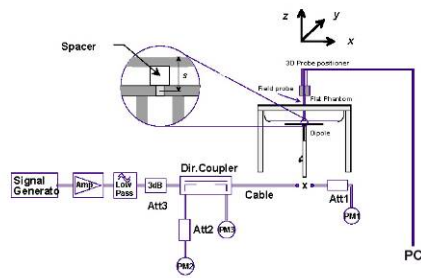


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 Standalone Body SAR Data

Table 10-1
UMTS Body SAR Data

MEASUREMENT RESULTS														
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
836.60	4183	UMTS 850	RMC	23.5	22.48	0.00	18 mm	0807-5	1:1	back	0.193	1.265	0.244	
836.60	4183	UMTS 850	RMC	23.5	22.48	0.00	13 mm	0807-5	1:1	bottom	0.124	1.265	0.157	
836.60	4183	UMTS 850	RMC	23.5	22.48	0.00	9 mm	0807-5	1:1	right	0.148	1.265	0.187	
836.60	4183	UMTS 850	RMC	20.5	19.59	0.07	0 mm	0807-1	1:1	back	0.525	1.233	0.647	A1
836.60	4183	UMTS 850	RMC	20.5	19.59	0.09	0 mm	0807-1	1:1	bottom	0.406	1.233	0.501	
836.60	4183	UMTS 850	RMC	20.5	19.59	0.01	0 mm	0807-1	1:1	right	0.294	1.233	0.363	
1880.00	9400	UMTS 1900	RMC	23.5	22.34	-0.03	18 mm	0807-3	1:1	back	0.341	1.306	0.445	
1880.00	9400	UMTS 1900	RMC	23.5	22.34	0.02	13 mm	0807-3	1:1	bottom	0.438	1.306	0.572	
1880.00	9400	UMTS 1900	RMC	23.5	22.34	-0.03	9 mm	0807-3	1:1	right	0.178	1.306	0.232	
1880.00	9400	UMTS 1900	RMC	13.5	12.90	0.03	0 mm	0807-1	1:1	back	0.693	1.148	0.796	A2
1880.00	9400	UMTS 1900	RMC	13.5	12.90	0.03	0 mm	0807-1	1:1	bottom	0.497	1.148	0.571	
1880.00	9400	UMTS 1900	RMC	13.5	12.90	0.06	0 mm	0807-1	1:1	right	0.087	1.148	0.100	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-2
LTE Band 17 Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
710.00	23790	Mid	LTE Band 17	10	24.0	23.51	0.08	0	0807-5	QPSK	1	0	18 mm	back	1:1	0.229	1.119	0.256	
710.00	23790	Mid	LTE Band 17	10	23.0	22.47	0.04	1	0807-5	QPSK	25	0	18 mm	back	1:1	0.187	1.130	0.211	
710.00	23790	Mid	LTE Band 17	10	24.0	23.51	0.04	0	0807-5	QPSK	1	0	13 mm	bottom	1:1	0.272	1.119	0.304	
710.00	23790	Mid	LTE Band 17	10	23.0	22.47	-0.06	1	0807-5	QPSK	25	0	13 mm	bottom	1:1	0.225	1.130	0.254	
710.00	23790	Mid	LTE Band 17	10	24.0	23.51	0.01	0	0807-5	QPSK	1	0	9 mm	right	1:1	0.096	1.119	0.107	
710.00	23790	Mid	LTE Band 17	10	23.0	22.47	0.04	1	0807-5	QPSK	25	0	9 mm	right	1:1	0.076	1.130	0.086	
710.00	23790	Mid	LTE Band 17	10	20.5	20.48	0.00	0	0807-2	QPSK	1	0	0 mm	back	1:1	0.840	1.005	0.844	
710.00	23790	Mid	LTE Band 17	10	20.5	20.49	-0.05	0	0807-2	QPSK	25	0	0 mm	back	1:1	0.843	1.002	0.845	
710.00	23790	Mid	LTE Band 17	10	20.5	20.14	0.02	0	0807-2	QPSK	50	0	0 mm	back	1:1	0.850	1.086	0.923	A3
710.00	23790	Mid	LTE Band 17	10	20.5	20.48	0.02	0	0807-2	QPSK	1	0	0 mm	bottom	1:1	0.485	1.005	0.487	
710.00	23790	Mid	LTE Band 17	10	20.5	20.49	-0.03	0	0807-2	QPSK	25	0	0 mm	bottom	1:1	0.492	1.002	0.493	
710.00	23790	Mid	LTE Band 17	10	20.5	20.48	0.04	0	0807-2	QPSK	1	0	0 mm	right	1:1	0.475	1.005	0.477	
710.00	23790	Mid	LTE Band 17	10	20.5	20.49	0.05	0	0807-2	QPSK	25	0	0 mm	right	1:1	0.514	1.002	0.515	
710.00	23790	Mid	LTE Band 17	10	20.5	20.14	-0.07	0	0807-2	QPSK	50	0	0 mm	back	1:1	0.841	1.086	0.913	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Blue entry represents variability measurement.

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Table 10-3
LTE Band 5 (Cell) Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.39	-0.02	0	0807-5	QPSK	1	25	18 mm	back	1:1	0.167	1.151	0.192	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.0	22.48	0.00	1	0807-5	QPSK	25	12	18 mm	back	1:1	0.135	1.127	0.152	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.39	-0.04	0	0807-5	QPSK	1	25	13 mm	bottom	1:1	0.134	1.151	0.154	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.0	22.48	-0.01	1	0807-5	QPSK	25	12	13 mm	bottom	1:1	0.109	1.127	0.123	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.39	0.20	0	0807-5	QPSK	1	25	9 mm	right	1:1	0.132	1.151	0.152	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.0	22.48	-0.02	1	0807-5	QPSK	25	12	9 mm	right	1:1	0.110	1.127	0.124	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.0	19.38	-0.09	0	0807-2	QPSK	1	25	0 mm	back	1:1	0.407	1.153	0.469	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.0	19.42	-0.07	0	0807-2	QPSK	25	0	0 mm	back	1:1	0.436	1.143	0.498	A4
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.0	19.38	0.01	0	0807-2	QPSK	1	25	0 mm	bottom	1:1	0.339	1.153	0.391	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.0	19.42	0.02	0	0807-2	QPSK	25	0	0 mm	bottom	1:1	0.362	1.143	0.414	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.0	19.38	0.00	0	0807-2	QPSK	1	25	0 mm	right	1:1	0.329	1.153	0.379	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.0	19.42	-0.05	0	0807-2	QPSK	25	0	0 mm	right	1:1	0.332	1.143	0.379	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																			

Table 10-4
LTE Band 4 (AWS) Body SAR

MEASUREMENT RESULTS																			
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Scaled SAR (1g) (W/kg)	Plot #
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.56	0.05	0	0807-5	QPSK	1	0	18 mm	back	1:1	0.443	1.107	0.490	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.54	-0.01	1	0807-5	QPSK	50	0	18 mm	back	1:1	0.336	1.112	0.374	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.56	-0.01	0	0807-5	QPSK	1	0	13 mm	bottom	1:1	0.874	1.107	0.968	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.54	-0.06	1	0807-5	QPSK	50	0	13 mm	bottom	1:1	0.625	1.112	0.695	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.21	-0.01	1	0807-5	QPSK	100	0	13 mm	bottom	1:1	0.598	1.199	0.717	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.56	0.03	0	0807-5	QPSK	1	0	9 mm	right	1:1	0.430	1.107	0.476	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.54	0.02	1	0807-5	QPSK	50	0	9 mm	right	1:1	0.317	1.112	0.353	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.0	12.78	0.02	0	0807-1	QPSK	1	0	0 mm	back	1:1	0.941	1.052	0.990	A5
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.0	12.89	0.04	0	0807-1	QPSK	50	0	0 mm	back	1:1	0.903	1.026	0.926	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.0	12.62	0.01	0	0807-1	QPSK	100	0	0 mm	back	1:1	0.856	1.091	0.934	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.0	12.78	0.00	0	0807-1	QPSK	1	0	0 mm	bottom	1:1	0.629	1.052	0.662	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.0	12.89	0.00	0	0807-1	QPSK	50	0	0 mm	bottom	1:1	0.642	1.026	0.659	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.0	12.78	0.02	0	0807-1	QPSK	1	0	0 mm	right	1:1	0.145	1.052	0.153	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.0	12.89	0.02	0	0807-1	QPSK	50	0	0 mm	right	1:1	0.173	1.026	0.177	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.0	12.78	0.03	0	0807-1	QPSK	1	0	0 mm	back	1:1	0.885	1.052	0.931	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body											
Spatial Peak								1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 1 gram											

Blue entry represents variability measurement.

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Table 10-5
LTE Band 2 (PCS) Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maxium Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR(1g)	Scaling Factor	Scaled SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1900.00	19100	High	LTE Band 2 (PCS)	20	24.0	23.58	0.00	0	0807-5	QPSK	1	0	18 mm	back	1:1	0.446	1.102	0.491	A6
1900.00	19100	High	LTE Band 2 (PCS)	20	23.0	22.60	-0.03	1	0807-5	QPSK	50	0	18 mm	back	1:1	0.361	1.096	0.396	
1900.00	19100	High	LTE Band 2 (PCS)	20	24.0	23.58	0.02	0	0807-5	QPSK	1	0	13 mm	bottom	1:1	0.548	1.102	0.604	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.0	22.60	0.01	1	0807-5	QPSK	50	0	13 mm	bottom	1:1	0.452	1.096	0.495	
1900.00	19100	High	LTE Band 2 (PCS)	20	24.0	23.58	-0.02	0	0807-5	QPSK	1	0	9 mm	right	1:1	0.266	1.102	0.293	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.0	22.60	0.04	1	0807-5	QPSK	50	0	9 mm	right	1:1	0.206	1.096	0.226	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.5	13.01	-0.01	0	0807-1	QPSK	1	0	0 mm	back	1:1	0.602	1.119	0.674	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.5	13.11	0.00	0	0807-1	QPSK	50	0	0 mm	back	1:1	0.623	1.094	0.682	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.5	13.01	0.01	0	0807-1	QPSK	1	0	0 mm	bottom	1:1	0.424	1.119	0.474	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.5	13.11	0.00	0	0807-1	QPSK	50	0	0 mm	bottom	1:1	0.446	1.094	0.488	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.5	13.01	0.07	0	0807-1	QPSK	1	0	0 mm	right	1:1	0.061	1.119	0.068	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.5	13.11	0.06	0	0807-1	QPSK	50	0	0 mm	right	1:1	0.061	1.094	0.067	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body											
Spatial Peak								1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 1 gram											

Table 10-6
DTS Body SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Number	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Scaled SAR (1g) (W/kg)	Plot #
MHz	Ch.															
2412	1	IEEE 802.11b	DSSS	12.5	11.85	0.00	0 mm	Antenna 1	1004-1	1	back	1:1	0.870	1.161	1.010	
2437	6	IEEE 802.11b	DSSS	12.5	12.13	0.05	0 mm	Antenna 1	1004-1	1	back	1:1	0.915	1.089	0.996	
2462	11	IEEE 802.11b	DSSS	12.5	11.79	0.08	0 mm	Antenna 1	1004-1	1	back	1:1	0.724	1.178	0.853	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	0.03	0 mm	Antenna 1	1004-1	6.5	back	1:1	0.603	1.009	0.608	
2437	6	IEEE 802.11b	DSSS	12.5	12.13	0.07	0 mm	Antenna 1	1004-1	1	top	1:1	0.621	1.089	0.676	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	-0.11	0 mm	Antenna 1	1004-1	6.5	top	1:1	0.485	1.009	0.489	
2437	6	IEEE 802.11b	DSSS	12.5	12.13	0.18	0 mm	Antenna 1	1004-1	1	right	1:1	0.039	1.089	0.042	
2412	1	IEEE 802.11b	DSSS	12.5	11.88	0.02	0 mm	Antenna 2	1004-1	1	back	1:1	0.896	1.153	1.033	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	0.20	0 mm	Antenna 2	1004-1	1	back	1:1	1.020	1.035	1.056	A7
2462	11	IEEE 802.11b	DSSS	12.5	11.30	0.12	0 mm	Antenna 2	1004-1	1	back	1:1	0.774	1.318	1.020	
2437	6	IEEE 802.11n	OFDM	10.5	9.59	-0.04	0 mm	Antenna 2	1004-1	6.5	back	1:1	0.355	1.233	0.438	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	0.10	0 mm	Antenna 2	1004-1	1	top	1:1	0.160	1.035	0.166	
2437	6	IEEE 802.11n	OFDM	10.5	9.59	-0.17	0 mm	Antenna 2	1004-1	6.5	right	1:1	0.130	1.233	0.160	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	-0.02	0 mm	Antenna 2	1004-1	1	right	1:1	0.389	1.035	0.403	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	0.14	0 mm	MIMO	1004-1	13	back	1:1	0.291	1.009	0.294	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	-0.05	0 mm	MIMO	1004-1	13	top	1:1	0.001	1.009	0.001	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	0.03	0 mm	MIMO	1004-1	13	right	1:1	0.000	1.009	0.000	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	0.12	0 mm	Antenna 2	1004-1	1	back	1:1	0.893	1.035	0.924	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram								

Blue entry represents variability measurement.

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Table 10-7
Bluetooth Body SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
2441	39	Bluetooth	FHSS	10.5	9.61	-0.04	0 mm	1004-1	1	back	1:1	0.221	1.227	0.271	A8
2441	39	Bluetooth	FHSS	10.5	9.61	0.00	0 mm	1004-1	1	top	1:1	0.153	1.227	0.188	
2441	39	Bluetooth	FHSS	10.5	9.61	0.01	0 mm	1004-1	1	right	1:1	0.009	1.227	0.011	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram								

10.2 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB 616217, and FCC KDB Publication 447498 D01v05.
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v05.
6. Per FCC KDB 865664 D01 v01, variability SAR tests were performed when the measured SAR results for a frequency band were greater than 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
7. Per FCC KDB 616217 D04 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D01v05 was applied to determine SAR test exclusion for adjacent edge configurations. Bottom and right edges SAR tests were required for the main antenna. Top and right edges SAR tests were required for the WLAN/BT antennas.

UMTS Notes:

1. UMTS mode in was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v02. HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.
2. Per FCC KDB Publication 447498 D01v05, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r01. The general test procedures used for testing can be found in Section 7.4.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

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3. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC Guidance, LTE CA SAR was not needed for testing since the data sent by uplink on uplink physical channels does not change between Rel 8 and Rel 10.

WLAN Notes:

1. Justification for reduced test configurations for WIFI channels per KDB Publication 248227 D01v01r02 and October 2012 FCC/TCB Meeting Notes for 2.4 GHz WIFI: Highest average RF output power channel for the lowest data rate was selected for SAR evaluation in 802.11b. Other IEEE 802.11 modes (including 802.11g/n) were not required since the average output powers over all channels and data rates were not more than 0.25 dB higher than the tested channel in the lowest data rate of IEEE 802.11b mode. The test configurations with the highest reported SAR were additionally evaluated for IEEE 802.11n.
2. For 5GHz WLAN, SAR was not required based on the maximum conducted power and the antenna to user separation distance. See section 1.6.
3. WIFI transmission was verified using an uncalibrated spectrum analyzer.
4. Since the maximum extrapolated peak SAR of the zoom scan for the maximum output channel is >1.6 W/kg and the reported 1g averaged SAR is >0.8 W/kg, SAR testing on other default channels was required.
5. Per KDB 248227, SAR for MIMO was measured with both transmitting simultaneously and was evaluated independently of SISO operation. For 2.4 GHz MIMO, 802.11n was evaluated. 5 GHz WLAN SAR tests were excluded per FCC KDB Publication 447498 D01v05.
6. There is no power reduction mechanism applied for WIFI/BT modes.

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11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v05 are applicable to handsets with built-in unlicensed transmitters such as 802.11a/b/g/n/ac and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

11.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v05 IV.C.1.iii and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. When standalone SAR is not required to be measured, per FCC KDB 447498 D01v05 4.3.2 2), the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission assessment involving that transmitter.

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} * \frac{(\text{Max Power of channel, mW})}{\text{Min. Separation Distance, mm}}$$

Table 11-1
Estimated SAR

Mode	Frequency	Maximum Allowed Power	Configuration	Separation Distance (Body)	Estimated SAR (Body)
	[MHz]	[dBm]	[W/kg]	[mm]	[W/kg]
5GHz WLAN Ant. 1	5825	8.00	Back Side & Top Edge Touching (*)	5	0.386
5GHz WLAN Ant. 1	5825	8.00	Right Edge, Touching	17	0.114
5GHz WLAN Ant. 2	5825	8.00	Back Side & Right Edge Touching (*)	5	0.386
5GHz WLAN Ant. 2	5825	8.00	Top Edge, Touching	13	0.149
5GHz WLAN MIMO	5825	8.00	Body Touching (*)	5	0.386
Bluetooth LE	2440	7.00	Right Edge, Touching	17	0.061
Bluetooth LE	2440	7.00	Top Edge, Touching	5	0.208

Note:

1. Per KDB Publication 447498 D01v05, the maximum power of the channel was rounded to the nearest mW before calculation.
2. When the test separation distance was > 50 mm, an estimated SAR of 0.4 W/kg was used to determine simultaneous transmission SAR exclusion, for configurations excluded per FCC KDB Publication 447498 D01v05. When the test separation distance was < 50 mm, an estimated SAR was determined per FCC KDB Publication 447498 D01v05.
3. (*) - Per FCC KDB 447498, when the test separation distance is <5 mm, a distance of 5 mm is applied to determine estimated SAR.

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11.3 Body SAR Simultaneous Transmission Analysis

Table 11-2
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant. 1 (Body at 0.0 cm)

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	(Ant.1) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.647	1.010	See Note 1	0.01
	Top	0.400	0.676	1.076	N/A
	Bottom	0.501	0.400	0.901	N/A
	Right	0.363	0.042	0.405	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	(Ant.1) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.923	1.010	See Note 1	0.01
	Top	0.400	0.676	1.076	N/A
	Bottom	0.493	0.400	0.893	N/A
	Right	0.515	0.042	0.557	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	(Ant.1) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.990	1.010	See Note 1	0.02
	Top	0.400	0.676	1.076	N/A
	Bottom	0.662	0.400	1.062	N/A
	Right	0.177	0.042	0.219	N/A
	Left	0.400	0.400	0.800	N/A

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	(Ant.1) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.796	1.010	See Note 1	0.01
	Top	0.400	0.676	1.076	N/A
	Bottom	0.571	0.400	0.971	N/A
	Right	0.100	0.042	0.142	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	(Ant.1) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.498	1.010	1.508	N/A
	Top	0.400	0.676	1.076	N/A
	Bottom	0.414	0.400	0.814	N/A
	Right	0.379	0.042	0.421	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	(Ant.1) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.682	1.010	See Note 1	0.01
	Top	0.400	0.676	1.076	N/A
	Bottom	0.488	0.400	0.888	N/A
	Right	0.068	0.042	0.110	N/A
	Left	0.400	0.400	0.800	N/A

Table 11-3
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant. 2 (Body at 0.0 cm)

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	(Ant.2) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.647	1.056	See Note 1	0.01
	Top	0.400	0.166	0.566	N/A
	Bottom	0.501	0.400	0.901	N/A
	Right	0.363	0.403	0.766	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	(Ant.2) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.923	1.056	See Note 1	0.02
	Top	0.400	0.166	0.566	N/A
	Bottom	0.493	0.400	0.893	N/A
	Right	0.515	0.403	0.918	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	(Ant.2) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.990	1.056	See Note 1	0.02
	Top	0.400	0.166	0.566	N/A
	Bottom	0.662	0.400	1.062	N/A
	Right	0.177	0.403	0.580	N/A
	Left	0.400	0.400	0.800	N/A

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	(Ant.2) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.796	1.056	See Note 1	0.01
	Top	0.400	0.166	0.566	N/A
	Bottom	0.571	0.400	0.971	N/A
	Right	0.100	0.403	0.503	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	(Ant.2) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.498	1.056	1.554	N/A
	Top	0.400	0.166	0.566	N/A
	Bottom	0.414	0.400	0.814	N/A
	Right	0.379	0.403	0.782	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	(Ant.2) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.682	1.056	See Note 1	0.01
	Top	0.400	0.166	0.566	N/A
	Bottom	0.488	0.400	0.888	N/A
	Right	0.068	0.403	0.471	N/A
	Left	0.400	0.400	0.800	N/A

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Table 11-4
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO (Body at 0.0 cm)

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	(MIMO) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	(MIMO) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.647	0.294	0.941	N/A	Body SAR	Back	0.796	0.294	1.090	N/A
	Top	0.400	0.001	0.401	N/A		Top	0.400	0.001	0.401	N/A
	Bottom	0.501	0.400	0.901	N/A		Bottom	0.571	0.400	0.971	N/A
	Right	0.363	0.000	0.363	N/A		Right	0.100	0.000	0.100	N/A
	Left	0.400	0.400	0.800	N/A		Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	(MIMO) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	(MIMO) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.923	0.294	1.217	N/A	Body SAR	Back	0.498	0.294	0.792	N/A
	Top	0.400	0.001	0.401	N/A		Top	0.400	0.001	0.401	N/A
	Bottom	0.493	0.400	0.893	N/A		Bottom	0.414	0.400	0.814	N/A
	Right	0.515	0.000	0.515	N/A		Right	0.379	0.000	0.379	N/A
	Left	0.400	0.400	0.800	N/A		Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	(MIMO) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	(MIMO) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.990	0.294	1.284	N/A	Body SAR	Back	0.682	0.294	0.976	N/A
	Top	0.400	0.001	0.401	N/A		Top	0.400	0.001	0.401	N/A
	Bottom	0.662	0.400	1.062	N/A		Bottom	0.488	0.400	0.888	N/A
	Right	0.177	0.000	0.177	N/A		Right	0.068	0.000	0.068	N/A
	Left	0.400	0.400	0.800	N/A		Left	0.400	0.400	0.800	N/A

Table 11-5
Simultaneous Transmission Scenario with 5 GHz WLAN Ant. 1 (Body at 0.0 cm)

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	(Ant.1) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	(Ant.1) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.647	0.386	1.033	N/A	Body SAR	Back	0.796	0.386	1.182	N/A
	Top	0.400	0.386	0.786	N/A		Top	0.400	0.386	0.786	N/A
	Bottom	0.501	0.400	0.901	N/A		Bottom	0.571	0.400	0.971	N/A
	Right	0.363	0.114	0.477	N/A		Right	0.100	0.114	0.214	N/A
	Left	0.400	0.400	0.800	N/A		Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	(Ant.1) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	(Ant.1) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.923	0.386	1.309	N/A	Body SAR	Back	0.498	0.386	0.884	N/A
	Top	0.400	0.386	0.786	N/A		Top	0.400	0.386	0.786	N/A
	Bottom	0.493	0.400	0.893	N/A		Bottom	0.414	0.400	0.814	N/A
	Right	0.515	0.114	0.629	N/A		Right	0.379	0.114	0.493	N/A
	Left	0.400	0.400	0.800	N/A		Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	(Ant.1) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	(Ant.1) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.990	0.386	1.376	N/A	Body SAR	Back	0.682	0.386	1.068	N/A
	Top	0.400	0.386	0.786	N/A		Top	0.400	0.386	0.786	N/A
	Bottom	0.662	0.400	1.062	N/A		Bottom	0.488	0.400	0.888	N/A
	Right	0.177	0.114	0.291	N/A		Right	0.068	0.114	0.182	N/A
	Left	0.400	0.400	0.800	N/A		Left	0.400	0.400	0.800	N/A

Table 11-6
Simultaneous Transmission Scenario with 5 GHz WLAN Ant. 2 (Body at 0.0 cm)

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	(Ant.2) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	(Ant.2) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.647	0.386	1.033	N/A	Body SAR	Back	0.796	0.386	1.182	N/A
	Top	0.400	0.149	0.549	N/A		Top	0.400	0.149	0.549	N/A
	Bottom	0.501	0.400	0.901	N/A		Bottom	0.571	0.400	0.971	N/A
	Right	0.363	0.386	0.749	N/A		Right	0.100	0.386	0.486	N/A
	Left	0.400	0.400	0.800	N/A		Left	0.400	0.400	0.800	N/A

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Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	(Ant.2) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.923	0.386	1.309	N/A
	Top	0.400	0.149	0.549	N/A
	Bottom	0.493	0.400	0.893	N/A
	Right	0.515	0.386	0.901	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	(Ant.2) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.990	0.386	1.376	N/A
	Top	0.400	0.149	0.549	N/A
	Bottom	0.662	0.400	1.062	N/A
	Right	0.177	0.386	0.563	N/A
	Left	0.400	0.400	0.800	N/A

Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	(Ant.2) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.498	0.386	0.884	N/A
	Top	0.400	0.149	0.549	N/A
	Bottom	0.414	0.400	0.814	N/A
	Right	0.379	0.386	0.765	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	(Ant.2) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.682	0.386	1.068	N/A
	Top	0.400	0.149	0.549	N/A
	Bottom	0.488	0.400	0.888	N/A
	Right	0.068	0.386	0.454	N/A
	Left	0.400	0.400	0.800	N/A

Table 11-7
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Body at 0.0 cm)

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	(MIMO) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.647	0.386	1.033	N/A
	Top	0.400	0.386	0.786	N/A
	Bottom	0.501	0.400	0.901	N/A
	Right	0.363	0.386	0.749	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	(MIMO) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.923	0.386	1.309	N/A
	Top	0.400	0.386	0.786	N/A
	Bottom	0.493	0.400	0.893	N/A
	Right	0.515	0.386	0.901	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	(MIMO) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.990	0.386	1.376	N/A
	Top	0.400	0.386	0.786	N/A
	Bottom	0.662	0.400	1.062	N/A
	Right	0.177	0.386	0.563	N/A
	Left	0.400	0.400	0.800	N/A

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	(MIMO) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.796	0.386	1.182	N/A
	Top	0.400	0.386	0.786	N/A
	Bottom	0.571	0.400	0.971	N/A
	Right	0.100	0.386	0.486	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	(MIMO) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.498	0.386	0.884	N/A
	Top	0.400	0.386	0.786	N/A
	Bottom	0.414	0.400	0.814	N/A
	Right	0.379	0.386	0.765	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	(MIMO) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.682	0.386	1.068	N/A
	Top	0.400	0.386	0.786	N/A
	Bottom	0.488	0.400	0.888	N/A
	Right	0.068	0.386	0.454	N/A
	Left	0.400	0.400	0.800	N/A

Table 11-8
Simultaneous Transmission Scenario with Bluetooth (Body at 0.0 cm)

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.647	0.271	0.918	N/A
	Top	0.400	0.208	0.608	N/A
	Bottom	0.501	0.400	0.901	N/A
	Right	0.363	0.061	0.424	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.923	0.271	1.194	N/A
	Top	0.400	0.208	0.608	N/A
	Bottom	0.493	0.400	0.893	N/A
	Right	0.515	0.061	0.576	N/A
	Left	0.400	0.400	0.800	N/A

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.796	0.271	1.067	N/A
	Top	0.400	0.208	0.608	N/A
	Bottom	0.571	0.400	0.971	N/A
	Right	0.100	0.061	0.161	N/A
	Left	0.400	0.400	0.800	N/A
Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.498	0.271	0.769	N/A
	Top	0.400	0.208	0.608	N/A
	Bottom	0.414	0.400	0.814	N/A
	Right	0.379	0.061	0.440	N/A
	Left	0.400	0.400	0.800	N/A

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Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.990	0.271	1.261	N/A	Body SAR	Back	0.682	0.271	0.953	N/A
	Top	0.400	0.208	0.608	N/A		Top	0.400	0.208	0.608	N/A
	Bottom	0.662	0.400	1.062	N/A		Bottom	0.488	0.400	0.888	N/A
	Right	0.177	0.061	0.238	N/A		Right	0.068	0.061	0.129	N/A
	Left	0.400	0.400	0.800	N/A		Left	0.400	0.400	0.800	N/A

Note: Estimated Bluetooth LE SAR results for top edge and right edge were used in the above table to determine simultaneous transmission SAR test exclusion since they were more conservative than Bluetooth reported SAR.

Table 11-9
Simultaneous Transmission Scenario (2.4 GHz Body Back Side at 1.8 cm)

Configuration	Mode	3G/4G SAR (W/kg)	(Ant.1) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Back Side	UMTS 850	0.244	<1.010	<1.254	N/A
Back Side	UMTS 1900	0.445	<1.010	<1.455	N/A
Back Side	LTE Band 17	0.256	<1.010	<1.266	N/A
Back Side	LTE Band 5 (Cell)	0.192	<1.010	<1.202	N/A
Back Side	LTE Band 4 (AWS)	0.490	<1.010	<1.500	N/A
Back Side	LTE Band 2 (PCS)	0.491	<1.010	<1.501	N/A
Configuration	Mode	3G/4G SAR (W/kg)	(Ant.2) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Back Side	UMTS 850	0.244	<1.056	<1.300	N/A
Back Side	UMTS 1900	0.445	<1.056	<1.504	N/A
Back Side	LTE Band 17	0.256	<1.056	<1.312	N/A
Back Side	LTE Band 5 (Cell)	0.192	<1.056	<1.248	N/A
Back Side	LTE Band 4 (AWS)	0.490	<1.056	<1.546	N/A
Back Side	LTE Band 2 (PCS)	0.491	<1.056	<1.547	N/A
Configuration	Mode	3G/4G SAR (W/kg)	(MIMO) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Back Side	UMTS 850	0.244	<0.294	<0.538	N/A
Back Side	UMTS 1900	0.445	<0.294	<0.739	N/A
Back Side	LTE Band 17	0.256	<0.294	<0.550	N/A
Back Side	LTE Band 5 (Cell)	0.192	<0.294	<0.486	N/A
Back Side	LTE Band 4 (AWS)	0.490	<0.294	<0.784	N/A
Back Side	LTE Band 2 (PCS)	0.491	<0.294	<0.785	N/A

Table 11-10
Simultaneous Transmission Scenario (5 GHz Body Back Side at 1.8 cm)

Configuration	Mode	3G/4G SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Back Side	UMTS 850	0.244	<0.386	<0.630	N/A
Back Side	UMTS 1900	0.445	<0.386	<0.831	N/A
Back Side	LTE Band 17	0.256	<0.386	<0.642	N/A
Back Side	LTE Band 5 (Cell)	0.192	<0.386	<0.578	N/A
Back Side	LTE Band 4 (AWS)	0.490	<0.386	<0.876	N/A
Back Side	LTE Band 2 (PCS)	0.491	<0.386	<0.877	N/A

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Table 11-11
Simultaneous Transmission Scenario (Bluetooth Body Back Side at 1.8 cm)

Configuration	Mode	3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Back Side	UMTS 850	0.244	<0.271	<0.515	N/A
Back Side	UMTS 1900	0.445	<0.271	<0.716	N/A
Back Side	LTE Band 17	0.256	<0.271	<0.527	N/A
Back Side	LTE Band 5 (Cell)	0.192	<0.271	<0.463	N/A
Back Side	LTE Band 4 (AWS)	0.490	<0.271	<0.761	N/A
Back Side	LTE Band 2 (PCS)	0.491	<0.271	<0.762	N/A

Table 11-12
Simultaneous Transmission Scenario (2.4 GHz Body Bottom Edge at 1.3 cm)

Configuration	Mode	3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Bottom Edge	UMTS 850	0.157	0.400	0.557	N/A
Bottom Edge	UMTS 1900	0.572	0.400	0.972	N/A
Bottom Edge	LTE Band 17	0.304	0.400	0.704	N/A
Bottom Edge	LTE Band 5 (Cell)	0.154	0.400	0.554	N/A
Bottom Edge	LTE Band 4 (AWS)	0.968	0.400	1.368	N/A
Bottom Edge	LTE Band 2 (PCS)	0.604	0.400	1.004	N/A

Table 11-13
Simultaneous Transmission Scenario (5 GHz Body Bottom Edge at 1.3 cm)

Configuration	Mode	3G/4G SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Bottom Edge	UMTS 850	0.157	0.400	0.557	N/A
Bottom Edge	UMTS 1900	0.572	0.400	0.972	N/A
Bottom Edge	LTE Band 17	0.304	0.400	0.704	N/A
Bottom Edge	LTE Band 5 (Cell)	0.154	0.400	0.554	N/A
Bottom Edge	LTE Band 4 (AWS)	0.968	0.400	1.368	N/A
Bottom Edge	LTE Band 2 (PCS)	0.604	0.400	1.004	N/A

Table 11-14
Simultaneous Transmission Scenario (Bluetooth Body Bottom Edge at 1.3 cm)

Configuration	Mode	3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Bottom Edge	UMTS 850	0.157	0.400	0.557	N/A
Bottom Edge	UMTS 1900	0.572	0.400	0.972	N/A
Bottom Edge	LTE Band 17	0.304	0.400	0.704	N/A
Bottom Edge	LTE Band 5 (Cell)	0.154	0.400	0.554	N/A
Bottom Edge	LTE Band 4 (AWS)	0.968	0.400	1.368	N/A
Bottom Edge	LTE Band 2 (PCS)	0.604	0.400	1.004	N/A

Table 11-15
Simultaneous Transmission Scenario (2.4 GHz Body Right Edge at 0.9 cm)

Configuration	Mode	3G/4G SAR (W/kg)	(Ant.1) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Right Edge	UMTS 850	0.187	<0.042	<0.229	N/A
Right Edge	UMTS 1900	0.232	<0.042	<0.274	N/A
Right Edge	LTE Band 17	0.107	<0.042	<0.149	N/A
Right Edge	LTE Band 5 (Cell)	0.152	<0.042	<0.194	N/A
Right Edge	LTE Band 4 (AWS)	0.476	<0.042	<0.518	N/A
Right Edge	LTE Band 2 (PCS)	0.293	<0.042	<0.335	N/A

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Configuration	Mode	3G/4G SAR (W/kg)	(Ant.2) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Right Edge	UMTS 850	0.187	<0.403	<0.590	N/A
Right Edge	UMTS 1900	0.232	<0.403	<0.635	N/A
Right Edge	LTE Band 17	0.107	<0.403	<0.510	N/A
Right Edge	LTE Band 5 (Cell)	0.152	<0.403	<0.555	N/A
Right Edge	LTE Band 4 (AWS)	0.476	<0.403	<0.879	N/A
Right Edge	LTE Band 2 (PCS)	0.293	<0.403	<0.696	N/A
Configuration	Mode	3G/4G SAR (W/kg)	(MIMO) 2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Right Edge	UMTS 850	0.187	0.000	0.187	N/A
Right Edge	UMTS 1900	0.232	0.000	0.232	N/A
Right Edge	LTE Band 17	0.107	0.000	0.170	N/A
Right Edge	LTE Band 5 (Cell)	0.152	0.000	0.152	N/A
Right Edge	LTE Band 4 (AWS)	0.476	0.000	0.476	N/A
Right Edge	LTE Band 2 (PCS)	0.293	0.000	0.293	N/A

Table 11-16
Simultaneous Transmission Scenario (5 GHz Body Right Edge at 0.9 cm)

Configuration	Mode	3G/4G SAR (W/kg)	(Ant.1) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Right Edge	UMTS 850	0.187	<0.114	<0.301	N/A
Right Edge	UMTS 1900	0.232	<0.114	<0.346	N/A
Right Edge	LTE Band 17	0.107	<0.114	<0.221	N/A
Right Edge	LTE Band 5 (Cell)	0.152	<0.114	<0.266	N/A
Right Edge	LTE Band 4 (AWS)	0.476	<0.114	<0.590	N/A
Right Edge	LTE Band 2 (PCS)	0.293	<0.114	<0.407	N/A
Configuration	Mode	3G/4G SAR (W/kg)	(Ant.2) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Right Edge	UMTS 850	0.187	<0.386	<0.573	N/A
Right Edge	UMTS 1900	0.232	<0.386	<0.618	N/A
Right Edge	LTE Band 17	0.107	<0.386	<0.493	N/A
Right Edge	LTE Band 5 (Cell)	0.152	<0.386	<0.538	N/A
Right Edge	LTE Band 4 (AWS)	0.476	<0.386	<0.862	N/A
Right Edge	LTE Band 2 (PCS)	0.293	<0.386	<0.679	N/A
Configuration	Mode	3G/4G SAR (W/kg)	(MIMO) 5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Right Edge	UMTS 850	0.187	<0.386	<0.573	N/A
Right Edge	UMTS 1900	0.232	<0.386	<0.618	N/A
Right Edge	LTE Band 17	0.107	<0.386	<0.493	N/A
Right Edge	LTE Band 5 (Cell)	0.152	<0.386	<0.538	N/A
Right Edge	LTE Band 4 (AWS)	0.476	<0.386	<0.862	N/A
Right Edge	LTE Band 2 (PCS)	0.293	<0.386	<0.679	N/A

Table 11-17
Simultaneous Transmission Scenario (Bluetooth Body Right Edge at 0.9 cm)

Configuration	Mode	3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Right Edge	UMTS 850	0.187	<0.061	<0.248	N/A
Right Edge	UMTS 1900	0.232	<0.061	<0.293	N/A
Right Edge	LTE Band 17	0.107	<0.061	<0.168	N/A
Right Edge	LTE Band 5 (Cell)	0.152	<0.061	<0.213	N/A
Right Edge	LTE Band 4 (AWS)	0.476	<0.061	<0.537	N/A
Right Edge	LTE Band 2 (PCS)	0.293	<0.061	<0.354	N/A

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Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not higher than 0.04 per FCC KDB 447498 D01v05. See Section 11.4 for detailed SPLS ratio analysis.
2. For SAR summations for body (back side at 18 mm and right edge at 9 mm), WLAN and Bluetooth SAR values for 0.0 mm were used since the 0.0 mm test distance for WLAN and Bluetooth SAR values were more conservative. "<" denotes that the 0.0 mm WLAN and Bluetooth SAR values were used for summation purposes.
3. Estimated Bluetooth LE SAR results for top edge and right edge were used for Bluetooth Top Edge SAR and Bluetooth Right Edge SAR to determine simultaneous transmission SAR test exclusion because estimated Bluetooth LE SAR were more conservative than measured Bluetooth SAR.
4. For SAR summations for body bottom edge at 13 mm, estimated WLAN and Bluetooth SAR values of 0.4 W/kg were used to determine simultaneous transmission SAR exclusion, for configurations excluded per FCC KDB Publication 447498 D01v05, since the antenna separation distance is greater than 50 mm.
5. 5 GHz WLAN was excluded per FCC KDB 447498 D01v05 (See section 1.6). Therefore, estimated 5 GHz SAR values in table 11-1 were used for summation purposes in tables 11-5, 11-6, 11-7, 11-10, 11-13, 11-16.

11.4 SPLSR Evaluation and Analysis

Per FCC KDB Publication 447498 D01v05, when the sum of the standalone transmitters is more than 1.6 W/kg, the SAR sum to peak locations can be analyzed to determine SAR distribution overlaps. When the SAR peak to location ratio (shown below) for each pair of antennas is ≤ 0.04 , simultaneous SAR evaluation is not required. The distance between the transmitters was calculated using the following formula.

$$\text{Distance}_{\text{Tx1} - \text{Tx2}} = R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$$

$$\text{SPLS Ratio} = \frac{(SAR_1 + SAR_2)^{1.5}}{R_i}$$

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The sum of the standalone SAR values was above 1.6 W/kg for the Body Back side configuration at a separation distance of 0 mm with UMTS 850 antenna operating at limited output power with 2.4 GHz WIFI Antenna 1.

Table 11-18
Peak SAR Locations for Body Back Side at 0 mm UMTS 850 and 2.4 GHz WLAN Ant. 1

Mode/Band	x (mm)	y (mm)
UMTS 850 MHz (at 0 mm)	-58.50	-107.00
802.11b (Ant. 1)	-65.60	91.80

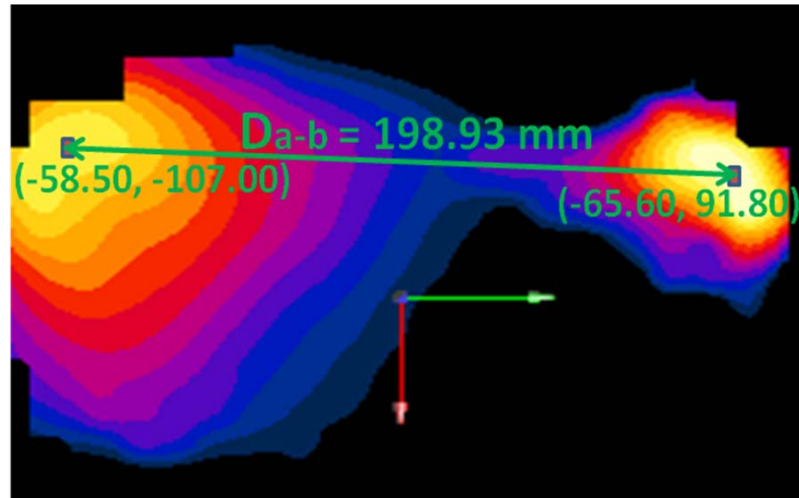


Figure 11-1
Peak SAR Locations of 2.4 GHz WLAN Ant. 1 and UMTS 850 at 0 mm

Table 11-19
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
UMTS 850 MHz (at 0 mm)	802.11b (Ant. 1)	0.647	1.010	1.657	198.93	0.01

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The sum of the standalone SAR values was above 1.6 W/kg for the Body Back side configuration at a separation distance of 0 mm with UMTS 1900 antenna operating at limited output power with 2.4 GHz WIFI Antenna 1.

Table 11-20
Peak SAR Locations for Body Back Side at 0 mm UMTS 1900 and 2.4 GHz WLAN Ant. 1

Mode/Band	x (mm)	y (mm)
UMTS 1900 MHz (at 0 mm)	-63.50	-103.50
802.11b (Ant. 1)	-65.60	91.80

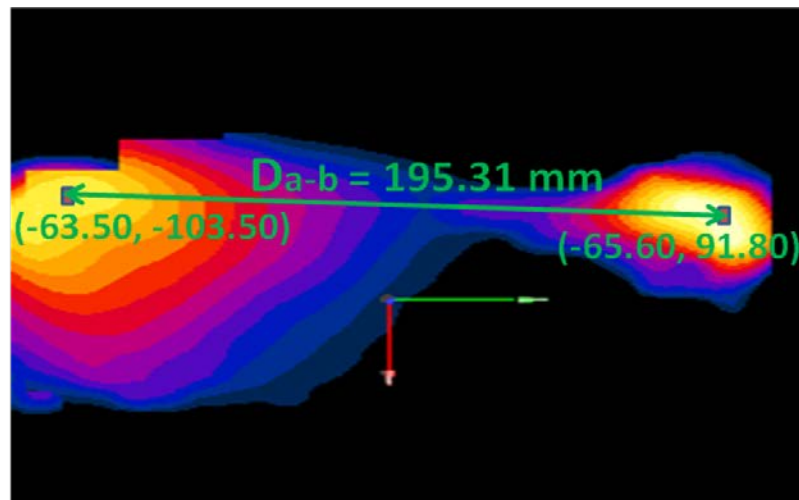


Figure 11-2
Peak SAR Locations of 2.4 GHz WLAN Ant. 1 and UMTS 1900 at 0 mm

Table 11-21
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
UMTS 1900 MHz (at 0 mm)	802.11b (Ant. 1)	0.796	1.010	1.806	195.31	0.01

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The sum of the standalone SAR values was above 1.6 W/kg for the Body Back side configuration at a separation distance of 0 mm with LTE Band 17 antenna operating at limited output power with 2.4 GHz WIFI Antenna 1.

Table 11-22
Peak SAR Locations for Body Back Side at 0 mm LTE Band 17 and 2.4 GHz WLAN Ant. 1

Mode/Band	x (mm)	y (mm)
LTE Band 17 (at 0 mm)	-53.97	-98.01
802.11b (Ant. 1)	-65.60	91.80

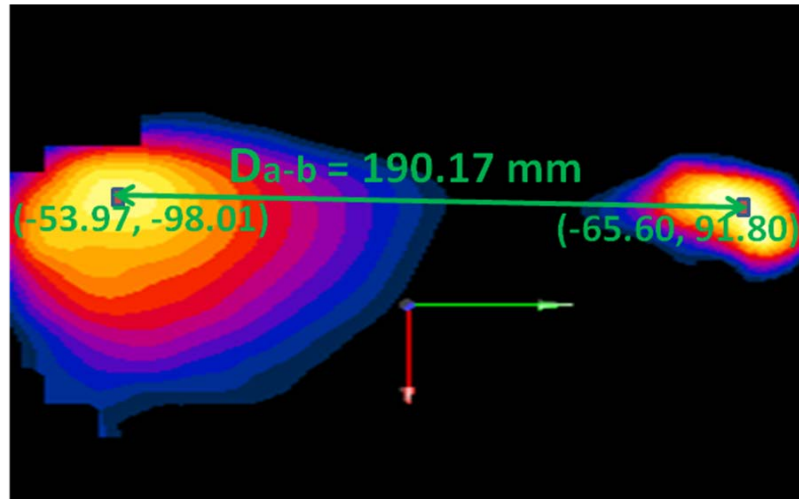


Figure 11-3
Peak SAR Locations of 2.4 GHz WLAN Ant. 1 and LTE Band 17 at 0 mm

Table 11-23
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
LTE Band 17 (at 0 mm)	802.11b (Ant. 1)	0.923	1.010	1.933	190.17	0.01

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The sum of the standalone SAR values was above 1.6 W/kg for the Body Back side configuration at a separation distance of 0 mm with LTE Band 4 antenna operating at limited output power with 2.4 GHz WIFI Antenna 1.

Table 11-24
Peak SAR Locations for Body Back Side at 0 mm LTE Band 4 and 2.4 GHz WLAN Ant. 1

Mode/Band	x (mm)	y (mm)
LTE Band 4 (at 0 mm)	-62.99	-88.51
802.11b (Ant. 1)	-65.60	91.80

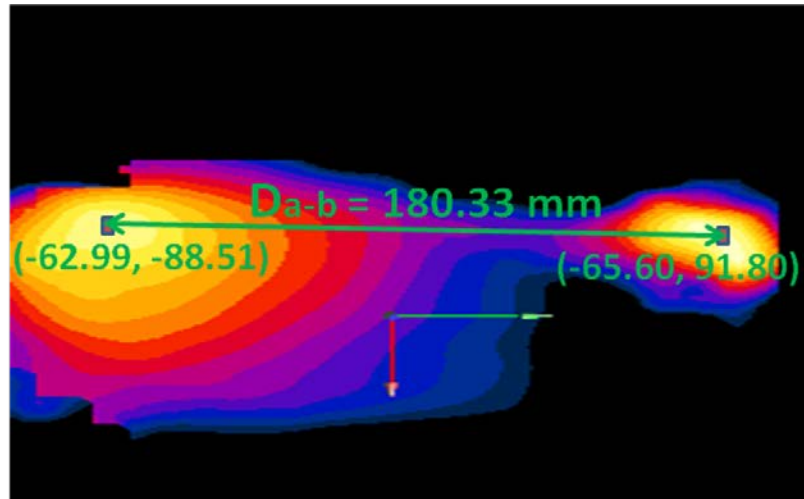


Figure 11-4
Peak SAR Locations of 2.4 GHz WLAN Ant. 1 and LTE Band 4 at 0 mm

Table 11-25
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
LTE Band 4 (at 0 mm)	802.11b (Ant. 1)	0.990	1.010	2.000	180.33	0.02

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The sum of the standalone SAR values was above 1.6 W/kg for the Body Back side configuration at a separation distance of 0 mm with LTE Band 2 antenna operating at limited output power with 2.4 GHz WIFI Antenna 1.

Table 11-26
Peak SAR Locations for Body Back Side at 0 mm LTE Band 2 and 2.4 GHz WLAN Ant. 1

Mode/Band	x (mm)	y (mm)
LTE Band 2 (at 0 mm)	-66.50	-102.00
802.11b (Ant. 1)	-65.60	91.80

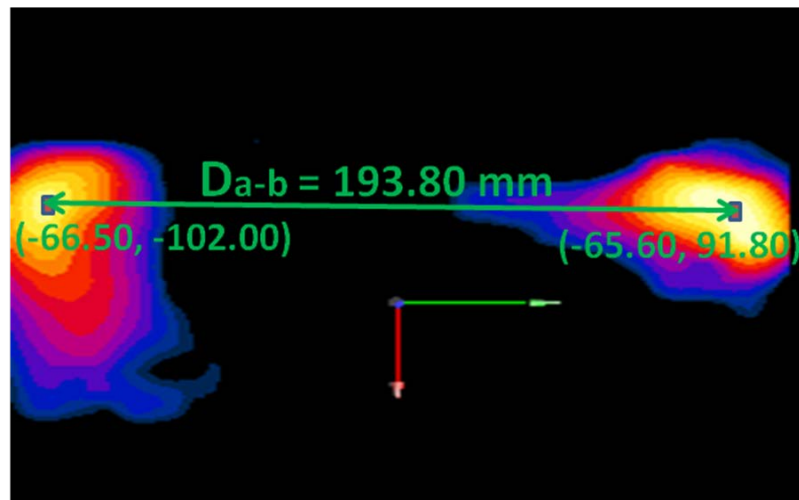


Figure 11-5
Peak SAR Locations of 2.4 GHz WLAN Ant. 1 and LTE Band 2 at 0 mm

Table 11-27
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
LTE Band 2 (at 0 mm)	802.11b (Ant. 1)	0.682	1.010	1.692	193.8	0.01

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The sum of the standalone SAR values was above 1.6 W/kg for the Body Back side configuration at a separation distance of 0 mm with UMTS 850 antenna operating at limited output power with 2.4 GHz WIFI Antenna 2.

Table 11-28
Peak SAR Locations for Body Back Side at 0 mm UMTS 850 and 2.4 GHz WLAN Ant. 2

Mode/Band	x (mm)	y (mm)
UMTS 850 MHz (at 0 mm)	-58.50	-107.00
802.11b (Ant. 2)	-69.80	77.20

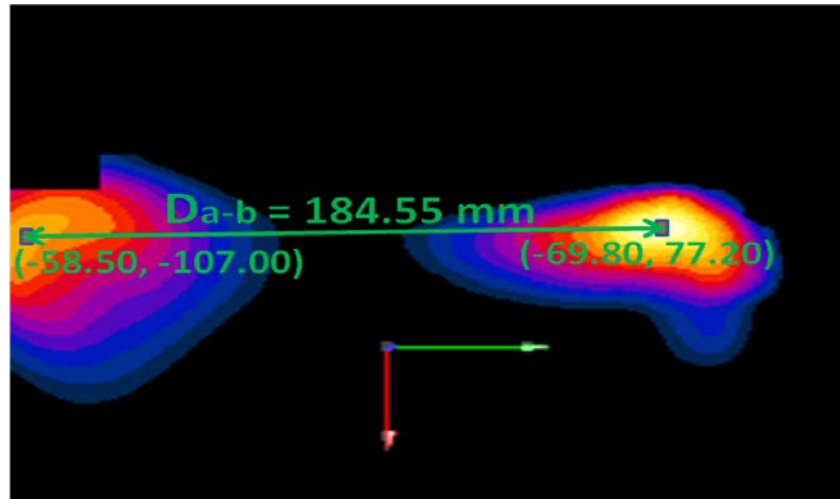


Figure 11-6
Peak SAR Locations of 2.4 GHz WLAN Ant. 2 and UMTS 850 at 0 mm

Table 11-29
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
UMTS 850 MHz (at 0 mm)	802.11b (Ant. 2)	0.647	1.056	1.703	184.55	0.01

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The sum of the standalone SAR values was above 1.6 W/kg for the Body Back side configuration at a separation distance of 0 mm with UMTS 1900 antenna operating at limited output power with 2.4 GHz WIFI Antenna 2.

Table 11-30
Peak SAR Locations for Body Back Side at 0 mm UMTS 1900 and 2.4 GHz WLAN Ant. 2

Mode/Band	x (mm)	y (mm)
UMTS 1900 MHz (at 0 mm)	-63.50	-103.50
802.11b (Ant. 2)	-69.80	77.20

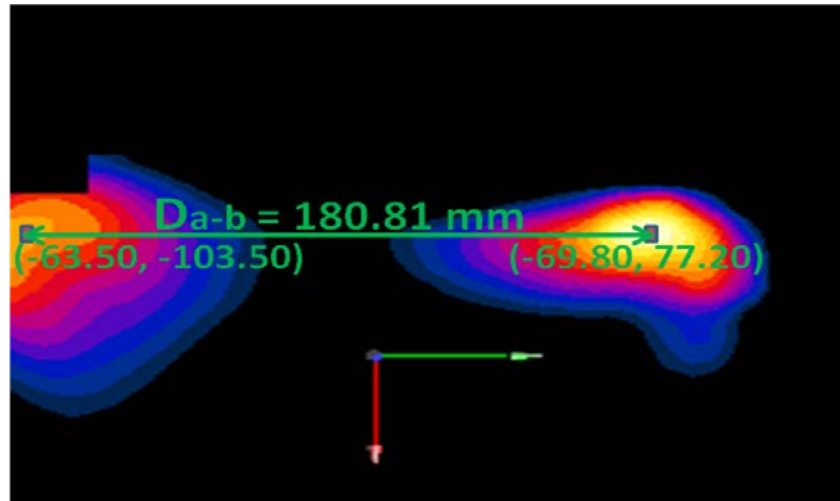


Figure 11-7
Peak SAR Locations of 2.4 GHz WLAN Ant. 2 and UMTS 1900 at 0 mm

Table 11-31
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
UMTS 1900 MHz (at 0 mm)	802.11b (Ant. 2)	0.796	1.056	1.852	180.81	0.01

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The sum of the standalone SAR values was above 1.6 W/kg for the Body Back side configuration at a separation distance of 0 mm with LTE Band 17 antenna operating at limited output power with 2.4 GHz WIFI Antenna 2.

Table 11-32
Peak SAR Locations for Body Back Side at 0 mm LTE Band 17 and 2.4 GHz WLAN Ant. 2

Mode/Band	x (mm)	y (mm)
LTE Band 17 (at 0 mm)	-53.97	-98.01
802.11b (Ant. 2)	-69.80	77.20

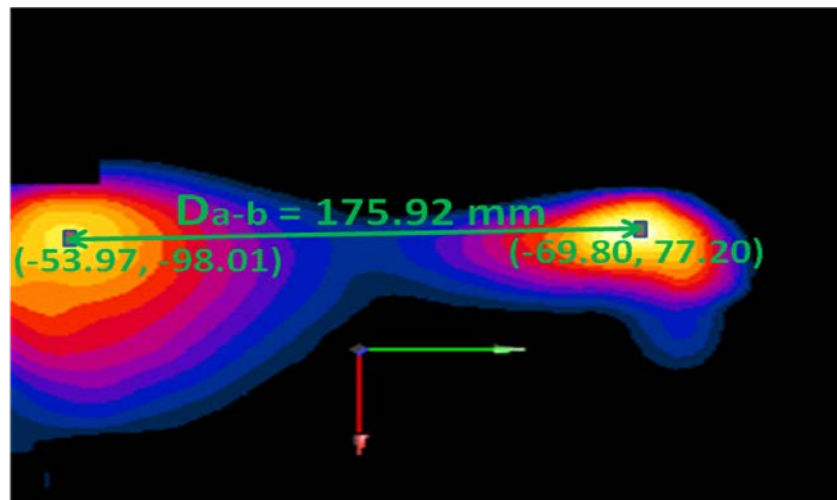


Figure 11-8
Peak SAR Locations of 2.4 GHz WLAN Ant. 2 and LTE Band 17 at 0 mm

Table 11-33
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
LTE Band 17 (at 0 mm)	802.11b (Ant. 2)	0.923	1.056	1.979	175.92	0.02

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The sum of the standalone SAR values was above 1.6 W/kg for the Body Back side configuration at a separation distance of 0 mm with LTE Band 4 antenna operating at limited output power with 2.4 GHz WIFI Antenna 2.

Table 11-34
Peak SAR Locations for Body Back Side at 0 mm LTE Band 4 and 2.4 GHz WLAN Ant. 2

Mode/Band	x (mm)	y (mm)
LTE Band 4 (at 0 mm)	-62.99	-88.51
802.11b (Ant. 2)	-69.80	77.20

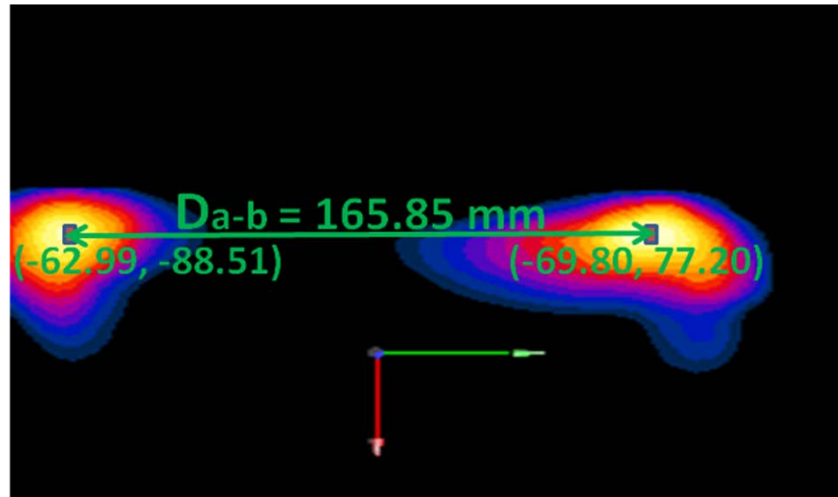


Figure 11-9
Peak SAR Locations of 2.4 GHz WLAN Ant. 2 and LTE Band 4 at 0 mm

Table 11-35
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
LTE Band 4 (at 0 mm)	802.11b (Ant. 2)	0.990	1.056	2.046	165.85	0.02

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The sum of the standalone SAR values was above 1.6 W/kg for the Body Back side configuration at a separation distance of 0 mm with LTE Band 2 antenna operating at limited output power with 2.4 GHz WIFI Antenna 2.

Table 11-36
Peak SAR Locations for Body Back Side at 0 mm LTE Band 2 and 2.4 GHz WLAN Ant. 2

Mode/Band	x (mm)	y (mm)
LTE Band 2 (at 0 mm)	-66.50	-102.00
802.11b (Ant. 2)	-69.80	77.20

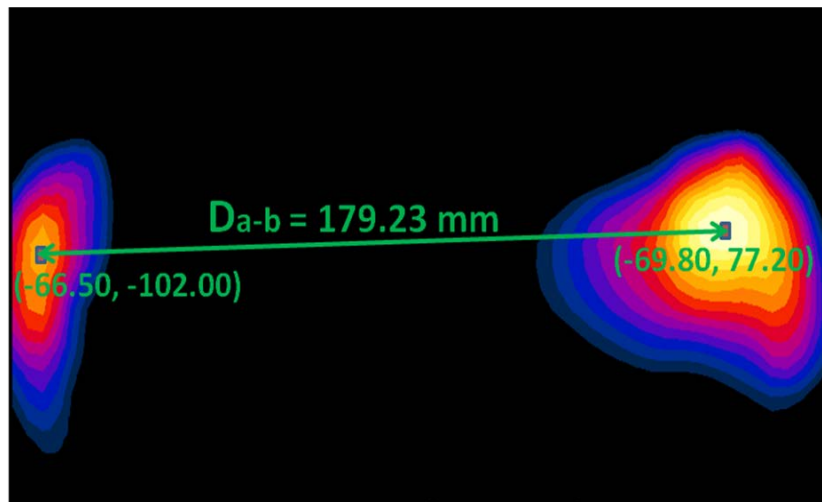


Figure 11-10
Peak SAR Locations of 2.4 GHz WLAN Ant. 2 and LTE Band 2 at 0 mm

Table 11-37
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
LTE Band 2 (at 0 mm)	802.11b (Ant. 2)	0.682	1.056	1.738	179.23	0.01

11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results and SPLSR for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v05 and IEEE 1528-2013 Section 6.3.4.1.2.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Antenna Number	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
750	710.00	23790	LTE Band 17	QPSK, 50 RB, 0 RB Offset	N/A	N/A	back	0 mm	0.850	0.841	1.01	N/A	N/A	N/A	N/A
1750	1732.50	20175	LTE Band 4 (AWS)	QPSK, 1 RB, 0 RB Offset	N/A	N/A	back	0 mm	0.941	0.885	1.06	N/A	N/A	N/A	N/A
2450	2437.00	6	IEEE 802.11b	DSSS	Antenna 2	1	back	0 mm	1.020	0.893	1.14	N/A	N/A	N/A	N/A
Spatial Peak Uncontrolled Exposure/General Population									1.6 W/kg (mW/g) averaged over 1 gram						

12.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg for all frequency bands. Therefore, per KDB Publication 865664 D01v01, the extended measurement uncertainty analysis per IEEE 1528-2003 was not required.

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13 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Gigatronix	80701A	(0.05-18GHz) Power Sensor	10/30/2013	Annual	10/30/2014	1833460
Agilent	E8257D	(250kHz-20GHz) Signal Generator	4/15/2014	Annual	4/15/2015	MY45470194
Agilent	8753E	(30kHz-6GHz) Network Analyzer	7/23/2013	Annual	7/23/2014	US37390350
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	N/A	N/A	N/A	3051A00187
Agilent	8648D	(9kHz-4GHz) Signal Generator	4/15/2014	Annual	4/15/2015	3629U00687
SPEAG	D1750V2	1750 MHz SAR Dipole	4/10/2014	Annual	4/10/2015	1051
SPEAG	D1900V2	1900 MHz SAR Dipole	7/22/2013	Annual	7/22/2014	5d149
SPEAG	D2450V2	2450 MHz SAR Dipole	1/21/2014	Annual	1/21/2015	797
SPEAG	D750V3	750 MHz Dipole	2/27/2014	Annual	2/27/2015	1046
SPEAG	D835V2	835 MHz SAR Dipole	4/7/2014	Annual	4/7/2015	4d119
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433971
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433972
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMU200	Base Station Simulator	6/6/2014	Annual	6/6/2015	109892
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/21/2013	Annual	8/21/2014	1322
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/17/2013	Annual	9/17/2014	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/18/2013	Annual	11/18/2014	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/26/2014	Annual	2/26/2015	665
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/17/2014	Annual	3/17/2015	1364
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/13/2013	Annual	11/13/2014	1091
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/6/2014	Annual	5/6/2015	1070
Mitutoyo	CD-6-CSX	Digital Caliper	5/8/2014	Biennial	5/8/2016	13264162
Mitutoyo	CD-6-CSX	Digital Caliper	5/8/2014	Biennial	5/8/2016	13264165
Fisher Scientific	15-077-960	Digital Thermometer	11/6/2012	Biennial	11/6/2014	122640025
Fisher Scientific	15-077-960	Digital Thermometer	12/4/2013	Biennial	12/4/2015	130764551
Rohde & Schwarz	NRVD	Dual Channel Power Meter	10/12/2012	Biennial	10/12/2014	101695
Agilent	E4438C	ESG Vector Signal Generator	3/31/2014	Annual	3/31/2015	MY42082659
Agilent	E4438C	ESG Vector Signal Generator	4/1/2014	Annual	4/1/2015	MY47270002
Fisher Scientific	15-078J	Long Stem Thermometer	10/30/2012	Biennial	10/30/2014	122626059
Fisher Scientific	15-078J	Long Stem Thermometer	1/7/2013	Biennial	1/7/2015	130018204
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Agilent	N9020A	MXA Signal Analyzer	10/29/2013	Annual	10/29/2014	US46470561
Agilent	N5182A	MKG Vector Signal Generator	4/15/2014	Annual	4/15/2015	MY47420800
Agilent	N5182A	MKG Vector Signal Generator	4/15/2014	Annual	4/15/2015	MY47420651
Rohde & Schwarz	NRV-232	Peak Power Sensor	10/12/2012	Biennial	10/12/2014	836019/013
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/18/2013	Annual	8/18/2014	1008
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/18/2013	Annual	8/18/2014	1009
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Anritsu	ML2495A	Power Meter	10/31/2013	Annual	10/31/2014	1039008
Anritsu	ML2469A	Power Meter	3/14/2014	Annual	3/14/2015	1306009
Anritsu	MA2411B	Pulse Power Sensor	11/14/2013	Annual	11/14/2014	1126066
Anritsu	MA2411B	Pulse Power Sensor	2/3/2014	Annual	2/3/2015	1339018
Anritsu	MT8820C	Radio Communication Analyzer	12/12/2013	Annual	12/12/2014	6200901190
Anritsu	MT8820C	Radio Communication Analyzer	12/12/2013	Annual	12/12/2014	6201300731
Rohde & Schwarz	CMW500	Radio Communication Tester	10/4/2013	Annual	10/4/2014	108798
Rohde & Schwarz	CMW500	Radio Communication Tester	10/18/2013	Annual	10/18/2014	100976
SPEAG	ES3DV2	SAR Probe	8/22/2013	Annual	8/22/2014	3022
SPEAG	ES3DV3	SAR Probe	9/23/2013	Annual	9/23/2014	3288
SPEAG	ES3DV3	SAR Probe	11/25/2013	Annual	11/25/2014	3332
SPEAG	ES3DV3	SAR Probe	2/25/2014	Annual	2/25/2015	3258
SPEAG	ES3DV3	SAR Probe	4/11/2014	Annual	4/11/2015	3213
COMTECH	AR85729-5/57598	Solid State Amplifier	CBT	N/A	CBT	M3W1A00-1002
COMTECH	AR85729-5	Solid State Amplifier	CBT	N/A	CBT	M155A00-009
Agilent	8753ES	S-Parameter Network Analyzer	10/29/2013	Annual	10/29/2014	US39170122
Agilent	8753ES	S-Parameter Network Analyzer	5/22/2014	Annual	5/22/2015	US39170118
Fisher Scientific	S97611	Thermometer	4/12/2013	Biennial	4/12/2015	130219303
Fisher Scientific	S97611	Thermometer	4/12/2013	Biennial	4/12/2015	130219304
Seekonk	NC-100	Torque Wrench	3/18/2014	Biennial	3/18/2016	N/A
Seekonk	NC-100	Torque Wrench 5/16", 8" lbs	3/18/2014	Biennial	3/18/2016	N/A
Anritsu	MA24106A	USB Power Sensor	12/18/2013	Annual	12/18/2014	1344555
Anritsu	MA24106A	USB Power Sensor	12/18/2013	Annual	12/18/2014	1344556
VWR	36934-158	Wall-Mounted Thermometer	8/8/2013	Biennial	8/8/2015	130477877
VWR	36934-158	Wall-Mounted Thermometer	8/8/2013	Biennial	8/8/2015	130477866
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Rohde & Schwarz	CMU200	Base Station Simulator	5/3/2013	Annual	5/3/2014	836371/0079

Note:

1. CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.
2. All calibrated equipments are used within their calibration period.

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14 MEASUREMENT UNCERTAINTIES

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	6.0	N	1	1.0	1.0	6.0	6.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	1.0	1.0	1.3	1.3	∞
Boundary Effect	E.2.3	0.4	N	1	1.0	1.0	0.4	0.4	∞
Linearity	E.2.4	0.3	N	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	E.2.5	5.1	N	1	1.0	1.0	5.1	5.1	∞
Readout Electronics	E.2.6	1.0	N	1	1.0	1.0	1.0	1.0	∞
Response Time	E.2.7	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1.0	1.0	1.5	1.5	∞
RF Ambient Conditions	E.6.1	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.4	R	1.73	1.0	1.0	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	E.6.3	2.9	R	1.73	1.0	1.0	1.7	1.7	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	1.0	R	1.73	1.0	1.0	0.6	0.6	∞
Test Sample Related									
Test Sample Positioning	E.4.2	6.0	N	1	1.0	1.0	6.0	6.0	287
Device Holder Uncertainty	E.4.1	3.32	R	1.73	1.0	1.0	1.9	1.9	∞
Output Power Variation - SAR drift measurement	6.6.2	5.0	R	1.73	1.0	1.0	2.9	2.9	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Conductivity - measurement uncertainty	E.3.3	3.8	N	1	0.64	0.43	2.4	1.6	6
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Liquid Permittivity - measurement uncertainty	E.3.3	4.5	N	1	0.60	0.49	2.7	2.2	6
Combined Standard Uncertainty (k=1)							RSS	12.1	11.7
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.2	23.5
									299

The above measurement uncertainties are according to IEEE Std. 1528-2003

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15 CONCLUSION

15.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Industry Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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APPENDIX A: SAR TEST DATA

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT707A; Type: Portable Tablet; Serial: 0807-1

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 1.017 \text{ S/m}$; $\epsilon_r = 53.895$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 07-10-2014; Ambient Temp: 24.5°C; Tissue Temp: 24.0°C

Probe: ES3DV2 - SN3022; ConvF(5.91, 5.91, 5.91); Calibrated: 8/22/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 8/21/2013

Phantom: SAM v5.0 front; Type: QD000P40CD; Serial: TP-1646

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Mode:UMTS 850, Body SAR, Back side, Mid.ch

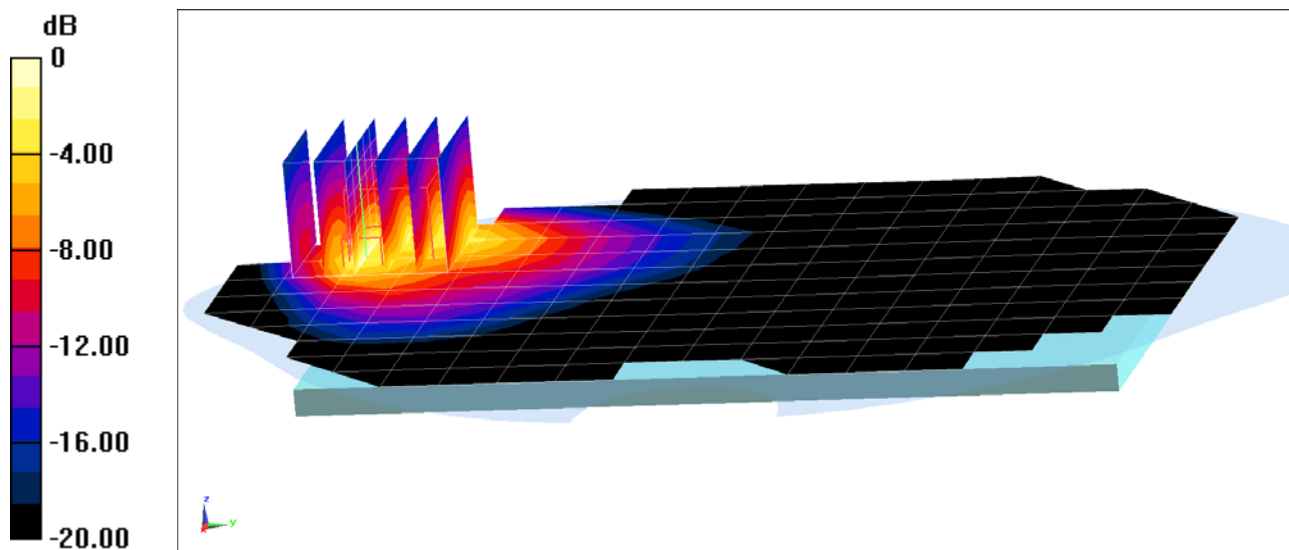
Area Scan (13x18x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.36 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.525 W/kg



0 dB = 0.819 W/kg = -0.87 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT707A; Type: Portable Tablet; Serial: 0807-1

Communication System: UID 0, UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.555 \text{ S/m}$; $\epsilon_r = 51.32$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 07-08-2014; Ambient Temp: 23.6°C; Tissue Temp: 23.6°C

Probe: ES3DV3 - SN3332; ConvF(4.7, 4.7, 4.7); Calibrated: 11/25/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 11/18/2013

Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1226

Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Mode: UMTS 1900, Body SAR, Back side, Mid.ch

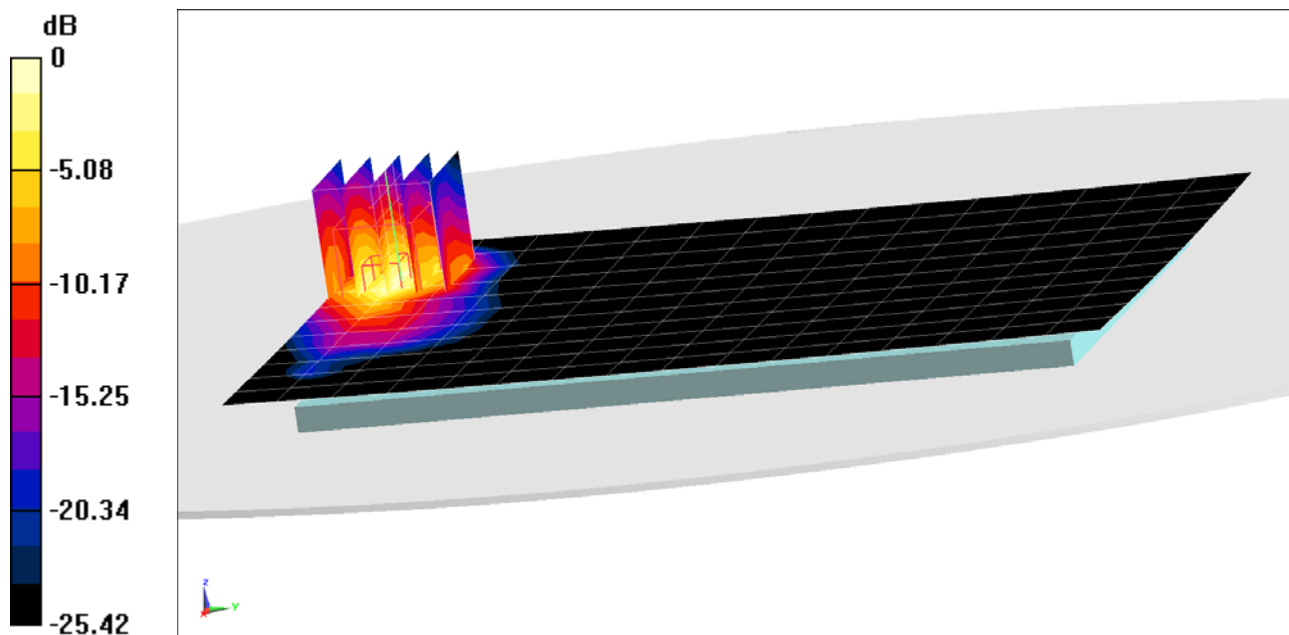
Area Scan (12x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.95 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.693 W/kg



0 dB = 0.880 W/kg = -0.56 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT707A; Type: Portable Tablet; Serial: 0807-2

Communication System: UID 0, LTE BAND 17; Frequency: 710 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used:

$f = 710 \text{ MHz}$; $\sigma = 0.965 \text{ S/m}$; $\epsilon_r = 56.51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 07-14-2014; Ambient Temp: 24.2°C; Tissue Temp: 22.5°C

Probe: ES3DV3 - SN3288; ConvF(6.25, 6.25, 6.25); Calibrated: 9/23/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 9/17/2013

Phantom: SAM Sub Dasy B; Type: SAM 5.0; Serial: TP-1626

Measurement SW: DASY4, Version 4.7 (80);SEMCAD X Version 14.6.10 (7331)

**Mode: LTE Band 17, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

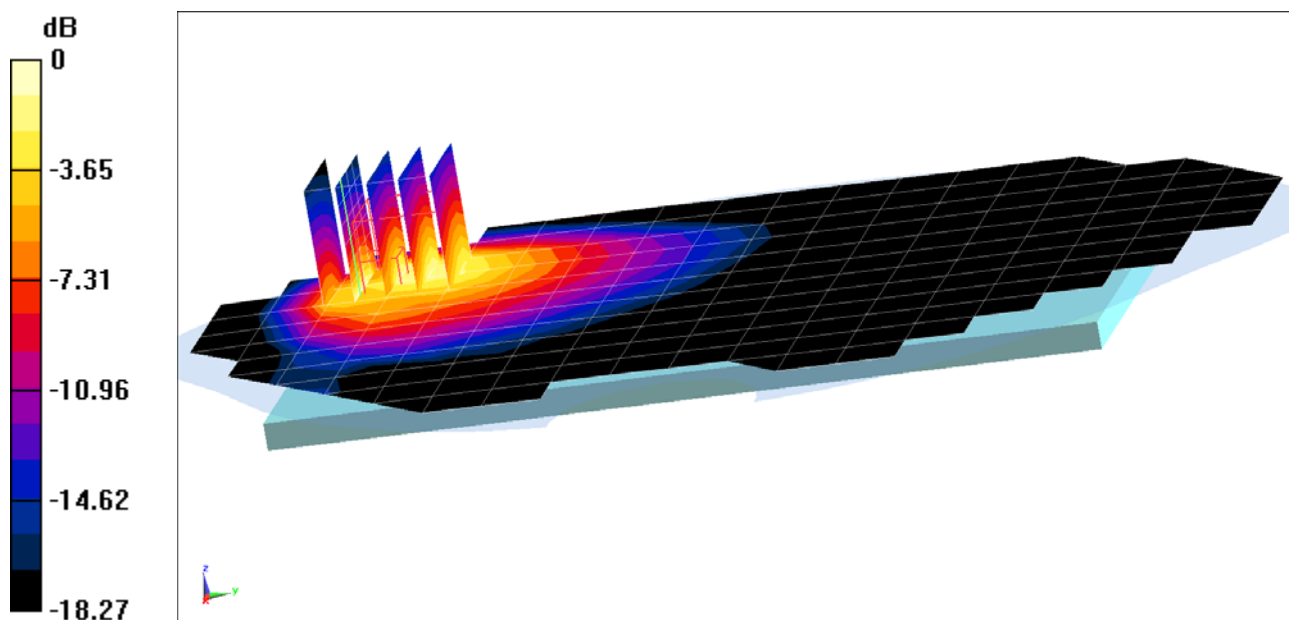
Area Scan (13x21x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 27.63 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.850 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT707A; Type: Portable Tablet; Serial: 0807-2

Communication System: UID 0, LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 1.016 \text{ S/m}$; $\epsilon_r = 53.896$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 07-10-2014; Ambient Temp: 24.5°C; Tissue Temp: 24.0°C

Probe: ES3DV2 - SN3022; ConvF(5.91, 5.91, 5.91); Calibrated: 8/22/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 8/21/2013

Phantom: SAM v5.0 front; Type: QD000P40CD; Serial: TP-1646

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Mode: LTE Band 5 (Cell.), Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 25 RB, 0 RB Offset**

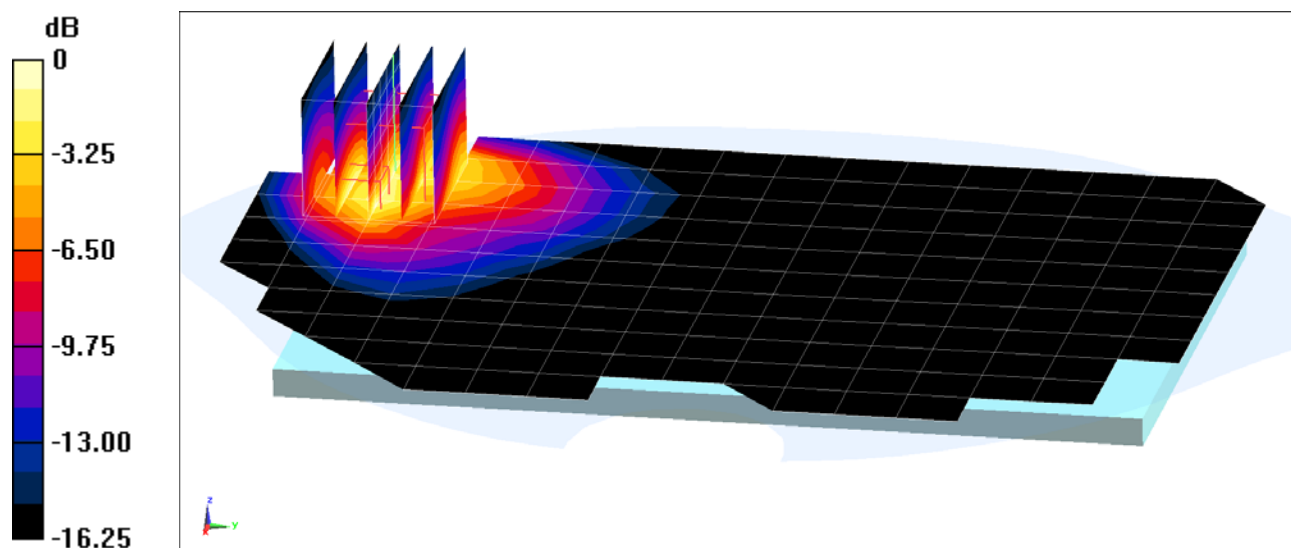
Area Scan (12x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.42 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.436 W/kg



0 dB = 0.601 W/kg = -2.21 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT707A; Type: Portable Tablet; Serial: 0807-1

Communication System: UID 0, LTE Band 4 (AWS) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1732.5 \text{ MHz}$; $\sigma = 1.499 \text{ S/m}$; $\epsilon_r = 51.027$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 07-10-2014; Ambient Temp: 22.5°C; Tissue Temp: 22.4°C

Probe: ES3DV3 - SN3213; ConvF(4.89, 4.89, 4.89); Calibrated: 4/11/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 3/17/2014

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7331)

**Mode: LTE Band 4 (AWS), Body SAR, Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

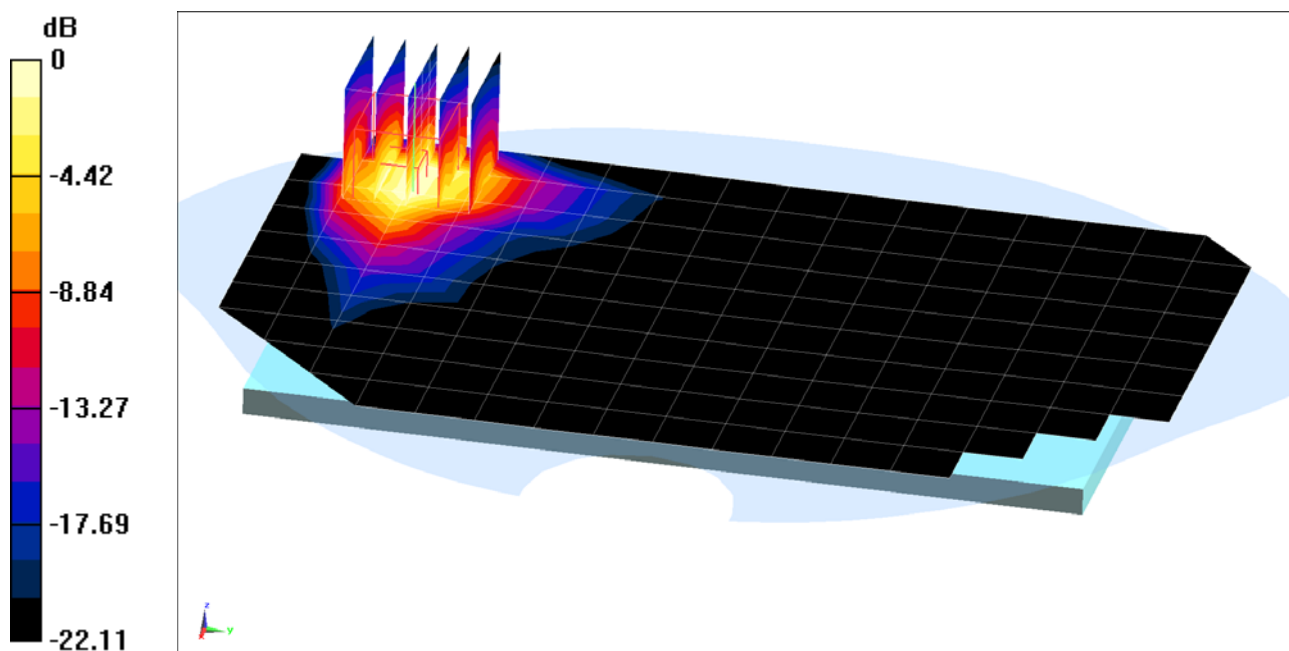
Area Scan (11x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 26.18 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 0.941 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT707A; Type: Portable Tablet; Serial: 0807-1

Communication System: UID 0, LTE Band 2 (PCS) (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.58 \text{ S/m}$; $\epsilon_r = 51.243$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 07-08-2014; Ambient Temp: 23.6°C; Tissue Temp: 23.6°C

Probe: ES3DV3 - SN3332; ConvF(4.7, 4.7, 4.7); Calibrated: 11/25/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 11/18/2013

Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1226

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Mode: LTE Band 2 (PCS), Body SAR, Back side, High.ch,
20 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

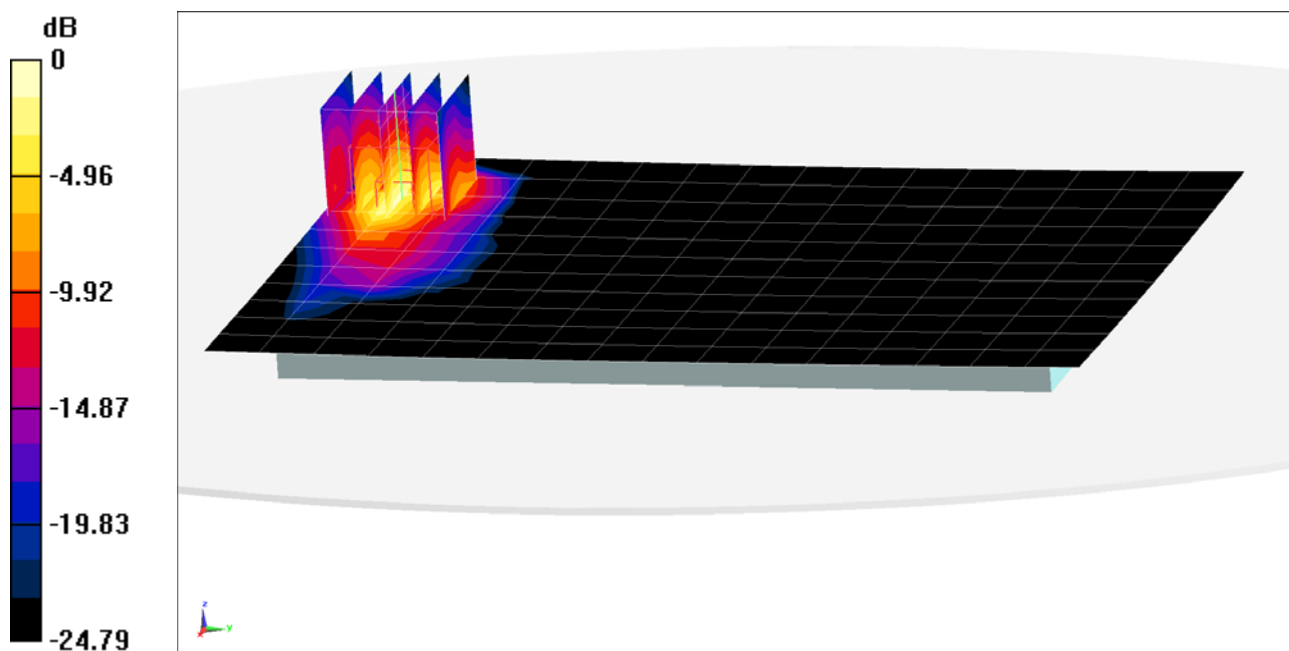
Area Scan (12x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 22.19 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.623 W/kg



0 dB = 0.877 W/kg = -0.57 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT707A; Type: Portable Tablet; Serial: 1004-1

Communication System: UID 0, IEEE 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2437 \text{ MHz}$; $\sigma = 2.013 \text{ S/m}$; $\epsilon_r = 52.664$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 04-14-2014; Ambient Temp: 24.4°C; Tissue Temp: 23.9°C

Probe: ES3DV3 - SN3258; ConvF(4.14, 4.14, 4.14); Calibrated: 2/25/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 2/26/2014

Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP-1158

Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

Mode: IEEE 802.11b Antenna 2, Body SAR, Back Side, Ch 06, 1 Mbps

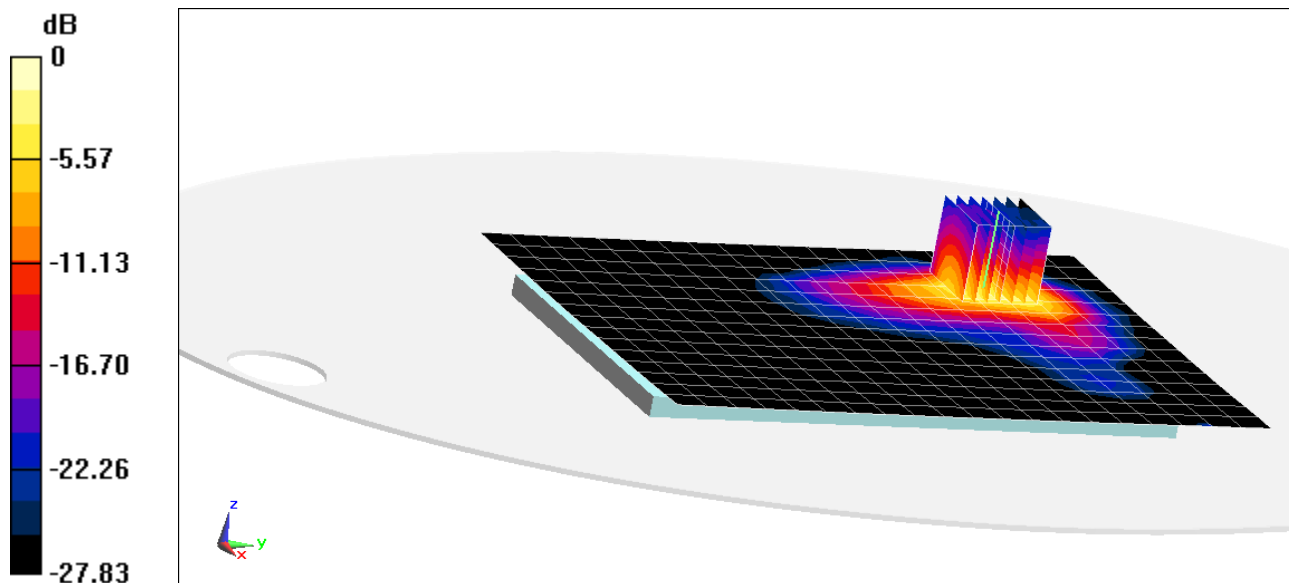
Area Scan (16x21x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 26.718 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 1.02 W/kg



0 dB = 1.48 W/kg = 1.70 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT707A; Type: Portable Tablet; Serial: 1004-1

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2441 \text{ MHz}$; $\sigma = 2.02 \text{ S/m}$; $\epsilon_r = 51.016$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 04-21-2014; Ambient Temp: 24.3°C; Tissue Temp: 23.0°C

Probe: ES3DV3 - SN3258; ConvF(4.14, 4.14, 4.14); Calibrated: 2/25/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 2/26/2014

Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP-1158

Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

Mode: Bluetooth, Body SAR, Back Side, Ch 39, 1 Mbps

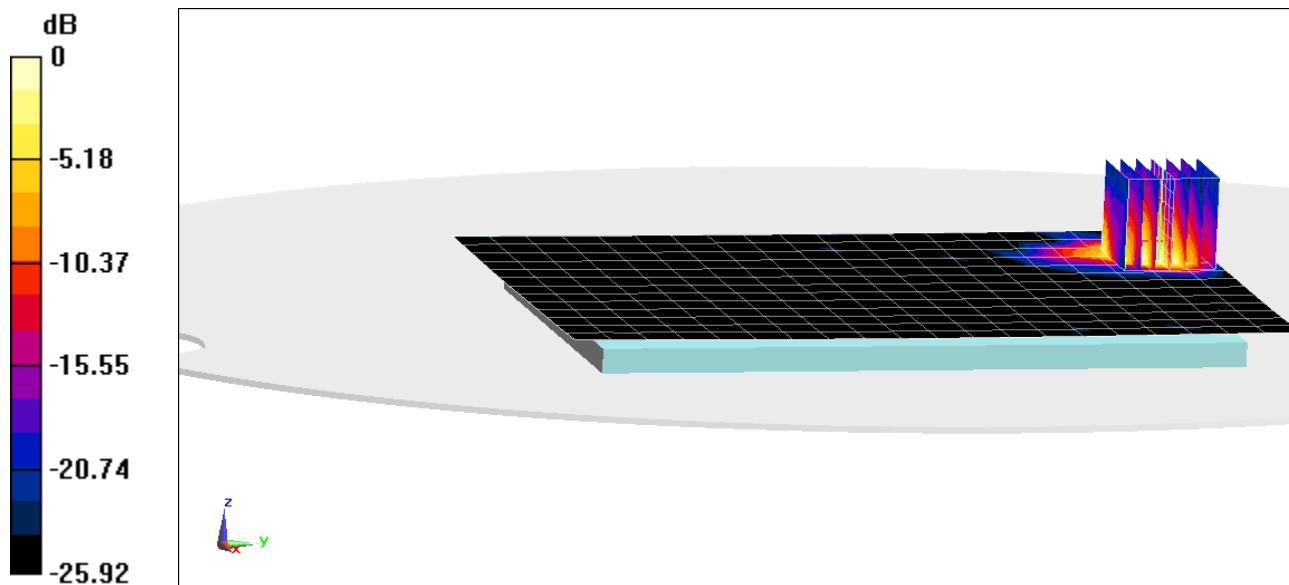
Area Scan (14x21x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.196 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.600 W/kg

SAR(1 g) = 0.221 W/kg



0 dB = 0.307 W/kg = -5.13 dBW/kg

APPENDIX B: SYSTEM VERIFICATION

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1046

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 1.005 \text{ S/m}$; $\epsilon_r = 56.163$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 07-14-2014; Ambient Temp: 24.2°C; Tissue Temp: 22.5°C

Probe: ES3DV3 - SN3288; ConvF(6.25, 6.25, 6.25); Calibrated: 9/23/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 9/17/2013

Phantom: SAM Sub Dasy B; Type: SAM 5.0; Serial: TP-1626

Measurement SW: DASY4, Version 4.7 (80);SEMCAD X Version 14.6.10 (7331)

750MHz System Verification

Area Scan (7x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

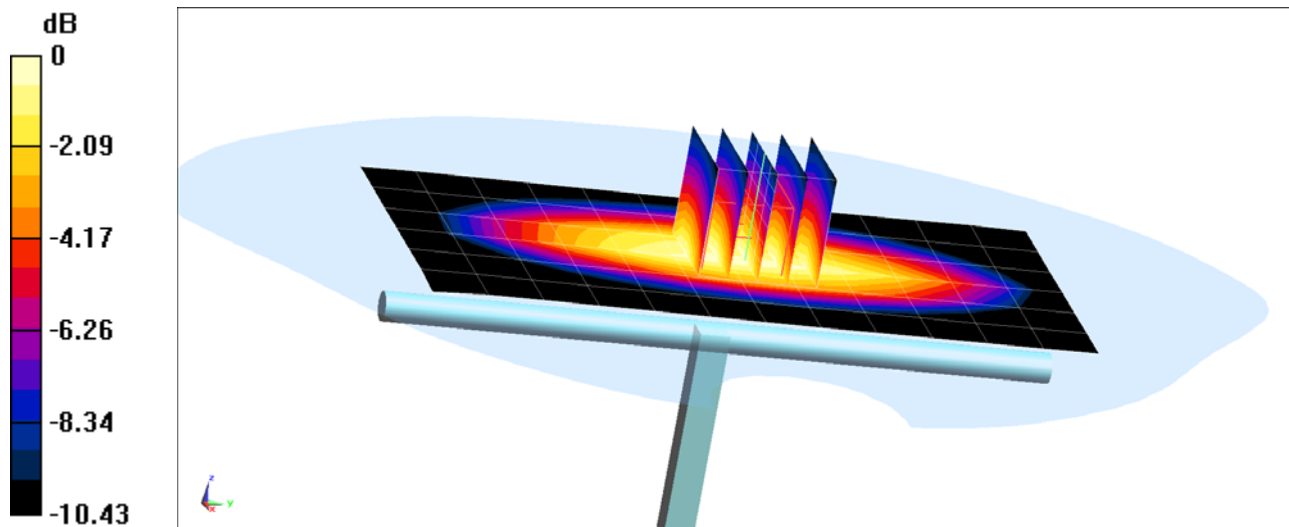
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.886 W/kg

Deviation = 3.75%



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

PCTEST ENGINEERING LABORATORY, INC.

DUT: 835 MHz SAR Dipole; Type: D835V2; Serial: 4d119

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 1.015 \text{ S/m}$; $\epsilon_r = 53.909$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 07-10-2014; Ambient Temp: 24.5°C; Tissue Temp: 24.0°C

Probe: ES3DV2 - SN3022; ConvF(5.91, 5.91, 5.91); Calibrated: 8/22/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 8/21/2013

Phantom: SAM v5.0 front; Type: QD000P40CD; Serial: TP-1646

Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

835 MHz System Verification

Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

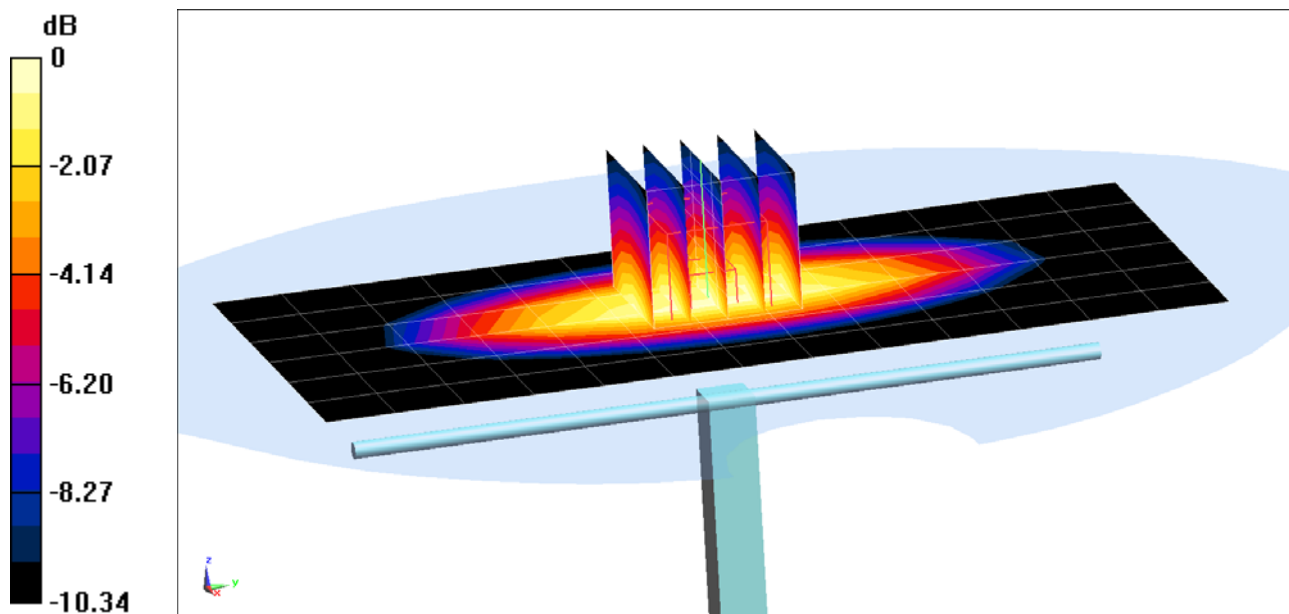
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.984 W/kg

Deviation = 5.35%



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

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1051

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.519 \text{ S/m}$; $\epsilon_r = 50.963$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 07-10-2014; Ambient Temp: 22.5°C; Tissue Temp: 22.4°C

Probe: ES3DV3 - SN3213; ConvF(4.89, 4.89, 4.89); Calibrated: 4/11/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 3/17/2014

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406

Measurement SW: DASY4, Version 4.7 (80);SEMCAD X Version 14.6.10 (7331)

1750 MHz System Verification

Area Scan (6x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

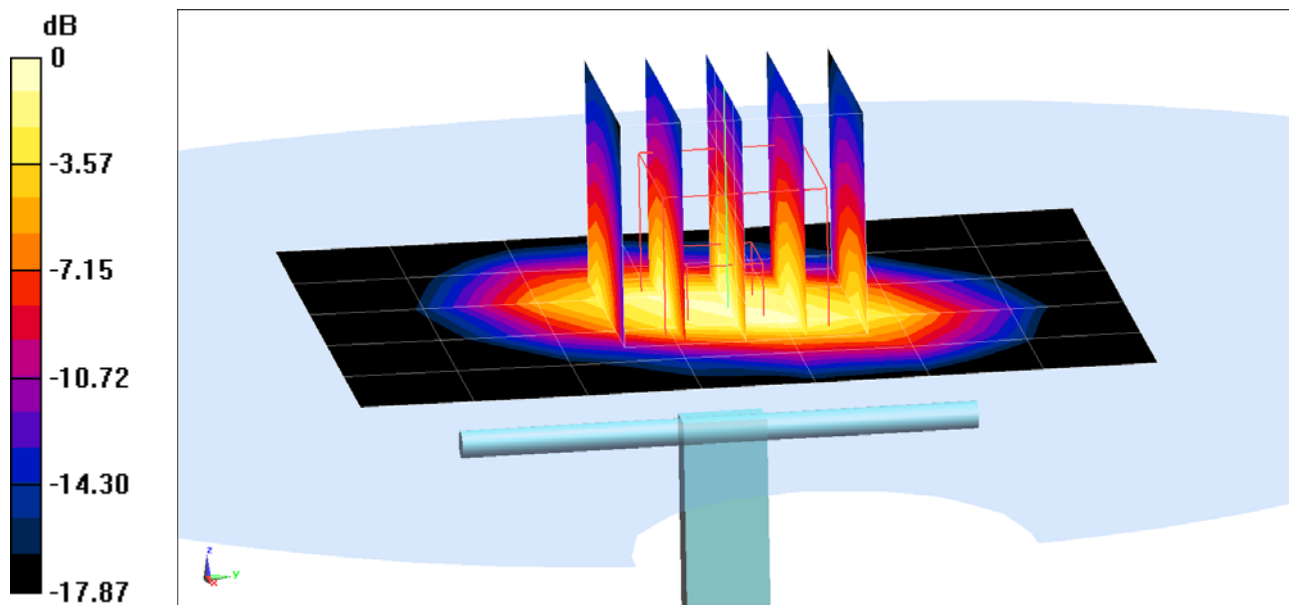
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 7.28 W/kg

SAR(1 g) = 4.03 W/kg

Deviation = 7.75%



0 dB = 5.13 W/kg = 7.10 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d149

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.58 \text{ S/m}$; $\epsilon_r = 51.243$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 07-08-2014; Ambient Temp: 23.6°C; Tissue Temp: 23.6°C

Probe: ES3DV3 - SN3332; ConvF(4.7, 4.7, 4.7); Calibrated: 11/25/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 11/18/2013

Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1226

Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

1900 MHz System Verification

Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

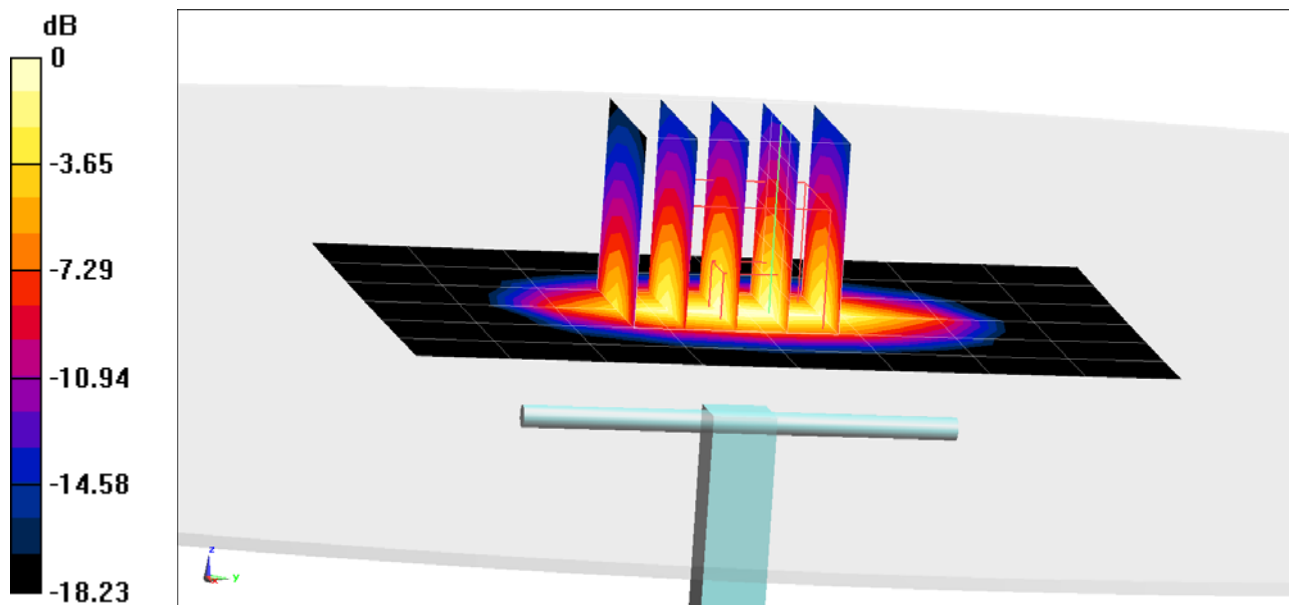
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 7.78 W/kg

SAR(1 g) = 4.36 W/kg

Deviation = 7.65%



0 dB = 5.42 W/kg = 7.34 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 797

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.031 \text{ S/m}$; $\epsilon_r = 52.62$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04-14-2014; Ambient Temp: 24.4°C; Tissue Temp: 23.9°C

Probe: ES3DV3 - SN3258; ConvF(4.14, 4.14, 4.14); Calibrated: 2/25/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 2/26/2014

Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP-1158

Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

2450 MHz System Verification

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

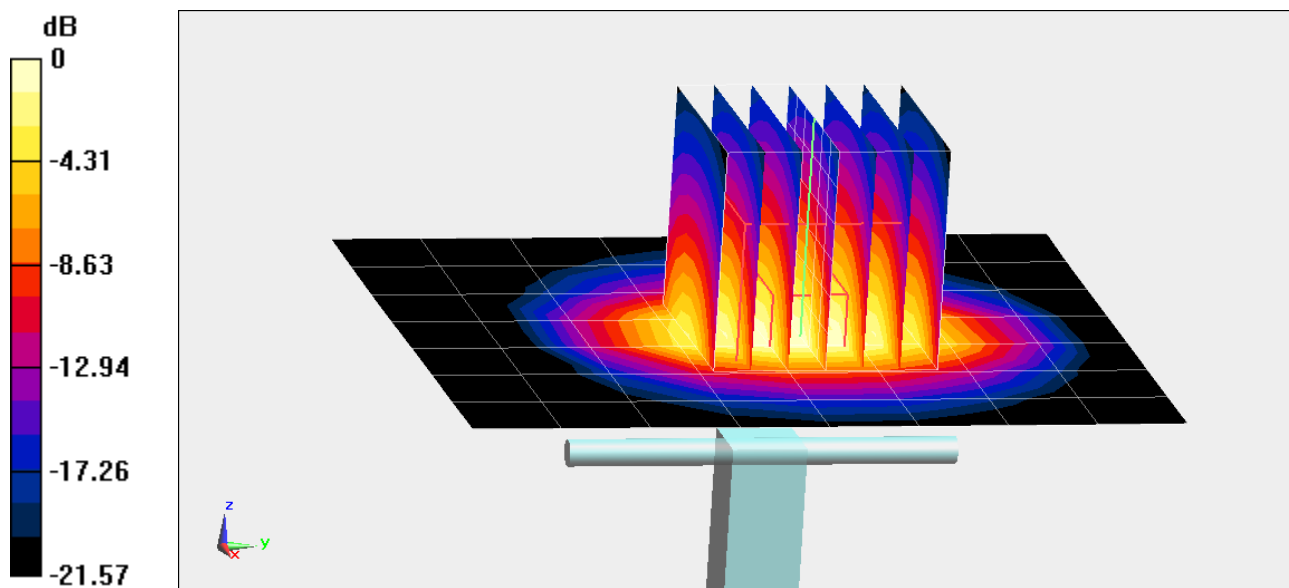
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 10.3 W/kg

SAR(1 g) = 4.89 W/kg

Deviation = -1.01%



0 dB = 6.40 W/kg = 8.06 dBW/kg