



SAR EVALUATION REPORT

Applicant Name:

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Date of Testing:

04/27/15 - 05/04/15

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

Document Serial No.:

OY1504300824.A3L

FCC ID:

A3LSMT817T

APPLICANT:

SAMSUNG ELECTRONICS, CO. LTD.

DUT Type:

Portable Tablet

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-T817T

Equipment Class	Band & Mode	Tx Frequency	SAR
			1 gm Body (W/kg)
PCB	UMTS 850	826.40 - 846.60 MHz	1.03
PCB	UMTS 1750	1712.4 - 1752.5 MHz	1.08
PCB	UMTS 1900	1852.4 - 1907.6 MHz	1.09
PCB	LTE Band 12	699.7 - 715.3 MHz	1.07
PCB	LTE Band 5 (Cell)	824.7 - 848.3 MHz	1.04
PCB	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	1.02
PCB	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	1.10
DTS	Bluetooth LE	2402 - 2480 MHz	N/A
DTS	2.4 GHz WLAN	2412 - 2462 MHz	1.07
NII	U-NII-1	5180 - 5240 MHz	
NII	U-NII-2A	5260 - 5320 MHz	1.01
NII	U-NII-2C	5500 - 5720 MHz	0.94
NII	U-NII-3	5745 - 5825 MHz	0.88
DSS	Bluetooth	2402 - 2480 MHz	0.11
Simultaneous SAR per KDB 690783 D01v01r03:			1.56

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



The SAR Tick is an initiative of the Mobile Manufacturers Forum (MMF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MMF. Further details can be obtained by emailing: sartick@mmfai.info.

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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 1750	Data	1712.4 - 1752.5 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 12	Data	699.7 - 715.3 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
Bluetooth LE	Data	2402 - 2480 MHz
2.4 GHz WLAN	Data	2412 - 2462 MHz
U-NII-1	Data	5180 - 5240 MHz
U-NII-2A	Data	5260 - 5320 MHz
U-NII-2C	Data	5500 - 5720 MHz
U-NII-3	Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
ANT+	Data	2402 - 2480 MHz

1.2 Power Reduction for SAR

This device uses independent power reduction mechanisms for WLAN and PCB SAR compliance. The power reduction mechanisms are activated when the device is used in close proximity to the user's body.

Since the device is a full sized tablet, the Body SAR was evaluated per FCC KDB Publication 616217 D04 for full sized tablets.

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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.

Main Antenna Maximum Power

Mode / Band		Modulated Average (dBm)			
		3GPP RMC	3GPP HSDPA	3GPP HSUPA	3GPP OC-HSDPA
		Rel 99	Rel 5	Rel 6	Rel 8
UMTS Band 5 (850 MHz)	Maximum	23.5	23.5	23.5	23.5
	Nominal	23.0	23.0	23.0	23.0
UMTS Band 4 (1750 MHz)	Maximum	23.5	23.5	23.5	23.5
	Nominal	23.0	23.0	23.0	23.0
UMTS Band 2 (1900 MHz)	Maximum	22.5	22.5	22.5	22.5
	Nominal	22.0	22.0	22.0	22.0
Mode / Band		Modulated Average (dBm)			
LTE Band 12	Maximum	23.5			
	Nominal	23.0			
LTE Band 5 (Cell)	Maximum	23.5			
	Nominal	23.0			
LTE Band 4 (AWS)	Maximum	23.5			
	Nominal	23.0			
LTE Band 2 (PCS)	Maximum	23.5			
	Nominal	23.0			

Main Antenna Reduced Power – Body at 0.0 mm

Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	3GPP OC-HSDPA
		Rel 99	Rel 5	Rel 6	Rel 8
UMTS Band 5 (850 MHz)	Maximum	17.0	17.0	17.0	17.0
	Nominal	16.5	16.5	16.5	16.5
UMTS Band 4 (1750 MHz)	Maximum	15.0	15.0	15.0	15.0
	Nominal	14.5	14.5	14.5	14.5
UMTS Band 2 (1900 MHz)	Maximum	15.0	15.0	15.0	15.0
	Nominal	14.5	14.5	14.5	14.5
Mode / Band		Modulated Average (dBm)			
LTE Band 12	Maximum	18.5			
	Nominal	18.0			
LTE Band 5 (Cell)	Maximum	17.5			
	Nominal	17.0			
LTE Band 4 (AWS)	Maximum	14.5			
	Nominal	14.0			
LTE Band 2 (PCS)	Maximum	15.5			
	Nominal	15.0			

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WLAN/BT Maximum Power

Mode / Band		Modulated Average (dBm)		
		ANT 1	ANT 2	MIMO
IEEE 802.11b (2.4 GHz)	Maximum	17.5	17.5	
	Nominal	17.0	17.0	
IEEE 802.11g (2.4 GHz)	Maximum	15.5	15.5	
	Nominal	15.0	15.0	
IEEE 802.11n (2.4 GHz)	Maximum	14.5	14.5	17.5
	Nominal	14.0	14.0	17.0
Bluetooth	Maximum	10.0		
	Nominal	9.5		
Bluetooth LE	Maximum	5.5		
	Nominal	5.0		

Mode / Band		Modulated Average (dBm)								
		20 MHz Bandwidth			40 MHz Bandwidth			80 MHz Bandwidth		
		ANT 1	ANT 2	MIMO	ANT 1	ANT 2	MIMO	ANT 1	ANT 2	MIMO
IEEE 802.11a (5 GHz)	Maximum	13.5	13.5							
	Nominal	13.0	13.0							
IEEE 802.11n (5 GHz)	Maximum	13.5	13.5	16.5	12.5	12.5	15.5			
	Nominal	13.0	13.0	16.0	12.0	12.0	15.0			
IEEE 802.11ac (5 GHz)	Maximum	13.5	13.5	16.5	12.5	12.5	15.5	11.5	11.5	14.5
	Nominal	13.0	13.0	16.0	12.0	12.0	15.0	11.0	11.0	14.0

WLAN Reduced Power at 0.0 mm

Mode / Band		Modulated Average (dBm)		
		ANT 1	ANT 2	MIMO
IEEE 802.11b (2.4 GHz)	Maximum	14.5	12.5	
	Nominal	14.0	12.0	
IEEE 802.11g (2.4 GHz)	Maximum	14.5	12.5	
	Nominal	14.0	12.0	
IEEE 802.11n (2.4 GHz)	Maximum	14.5	12.5	16.5
	Nominal	14.0	12.0	16.0

Mode / Band		Modulated Average (dBm)								
		20 MHz Bandwidth			40 MHz Bandwidth			80 MHz Bandwidth		
		ANT 1	ANT 2	MIMO	ANT 1	ANT 2	MIMO	ANT 1	ANT 2	MIMO
IEEE 802.11a (5 GHz)	Maximum	8.5	7.5							
	Nominal	8.0	7.0							
IEEE 802.11n (5 GHz)	Maximum	8.5	7.5	10.5	8.5	7.5	10.5			
	Nominal	8.0	7.0	10.0	8.0	7.0	10.0			
IEEE 802.11ac (5 GHz)	Maximum	8.5	7.5	10.5	8.5	7.5	10.5	8.5	7.5	10.5
	Nominal	8.0	7.0	10.0	8.0	7.0	10.0	8.0	7.0	10.0

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1.4 DUT Antenna Locations

A diagram showing the location of the device antennas can be found in Appendix F. The overall diagonal dimension diagonal display is <200 mm, therefore it is a tablet per FCC KDB Publication 616217. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC Filing.

Table 1-1
Sides for SAR Testing

Sides for SAR Testing					
Mode	Back	Top	Bottom	Right	Left
UMTS 850	Yes	Yes	No	Yes	Yes
UMTS 1750	Yes	Yes	No	Yes	Yes
UMTS 1900	Yes	Yes	No	Yes	Yes
LTE Band 12	Yes	Yes	No	Yes	Yes
LTE Band 5 (Cell)	Yes	Yes	No	Yes	Yes
LTE Band 4 (AWS)	Yes	Yes	No	Yes	Yes
LTE Band 2 (PCS)	Yes	Yes	No	Yes	Yes
2.4 GHz WLAN	Yes	Yes	Yes	Yes	Yes
2.4 GHz Bluetooth	Yes	No	Yes	Yes	Yes
5 GHz WLAN	Yes	Yes	Yes	Yes	Yes

Note: Particular DUT edges were not required to be evaluated for SAR based on the SAR exclusion threshold in KDB 447498 D01v05r01. Additional edges for 2.4 GHz and 5 GHz WLAN were tested per Manufacturer's request.

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 1-1 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 1-1
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

- 2.4 GHz WLAN, 5 GHz WLAN, and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
- All licensed modes share the same antenna path and cannot transmit simultaneously.
- 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 Miscellaneous SAR Test Considerations

(A) WIFI

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB 248227 D01Wi-Fi SAR v02.

This device supports IEEE 802.11ac with the following features:

- Up to 80 MHz Bandwidth only
- No aggregate channel configurations
- 2 Tx antenna output
- 256 QAM is supported
- Band gap channels are supported

(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 D01v03.

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 D05v02r03.

This device supports LTE Carrier Aggregation (CA) in the downlink only. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r01, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.

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1.7 Guidance Applied

- FCC KDB Publication 941225 D01v03, D05v02r03, D05Av01r01 (3G/4G)
- FCC KDB Publication 248227 D01 Wi-Fi SAR v02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v05r02 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r03, D02v01r01 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r01 (Tablet SAR Considerations)

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.

	Maximum Power Serial Number	Reduced Power Serial Number
UMTS 850	8026	6798
UMTS 1750	5775	6062
UMTS 1900	8026	6798
LTE Band 12	7318	8134
LTE Band 5 (Cell)	7598	8117
LTE Band 4 (AWS)	7598	6947
LTE Band 2 (PCS)	7598	6947
Bluetooth	6905	N/A
2.4 GHz WLAN	6905	7937
5 GHz WLAN	6905	7937

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LTE INFORMATION

LTE Information			
FCC ID	A3LSMT817T		
Form Factor	Portable Tablet		
Frequency Range of each LTE transmission band	LTE Band 12 (699.7 - 715.3 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 12: 1.4 MHz, 3 MHz, 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 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	711 (23130)
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	6		
Modulations Supported in UL	QPSK, 16QAM		
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		
LTE Carrier Aggregation Possible Combinations	LTE B2/DCS + LTE B4/SCS	LTE B4 (DCS) + LTE B2 (SCS)	LTE B4 (DCS) + LTE B2 (SCS)
	1.4MHz (B2) + 5MHz (B4)	1.4MHz (B4) + 5MHz (B2)	1.4MHz (B4) + 5MHz (B2)
	1.4MHz (B2) + 10MHz (B4)	1.4MHz (B4) + 10MHz (B2)	1.4MHz (B4) + 10MHz (B2)
	1.4MHz (B2) + 15MHz (B4)	1.4MHz (B4) + 15MHz (B2)	1.4MHz (B4) + 15MHz (B2)
	1.4MHz (B2) + 20MHz (B4)	1.4MHz (B4) + 20MHz (B2)	1.4MHz (B4) + 20MHz (B2)
	3MHz (B2) + 5MHz (B4)	3MHz (B4) + 5MHz (B2)	3MHz (B4) + 5MHz (B2)
	3MHz (B2) + 10MHz (B4)	3MHz (B4) + 10MHz (B2)	3MHz (B4) + 10MHz (B2)
	3MHz (B2) + 15MHz (B4)	3MHz (B4) + 15MHz (B2)	3MHz (B4) + 15MHz (B2)
	3MHz (B2) + 20MHz (B4)	3MHz (B4) + 20MHz (B2)	3MHz (B4) + 20MHz (B2)
	5MHz (B2) + 5MHz (B4)	5MHz (B4) + 5MHz (B2)	5MHz (B4) + 5MHz (B2)
	5MHz (B2) + 10MHz (B4)	5MHz (B4) + 10MHz (B2)	5MHz (B4) + 10MHz (B2)
	5MHz (B2) + 15MHz (B4)	5MHz (B4) + 15MHz (B2)	5MHz (B4) + 15MHz (B2)
	5MHz (B2) + 20MHz (B4)	5MHz (B4) + 20MHz (B2)	5MHz (B4) + 20MHz (B2)
	10MHz (B2) + 5MHz (B4)	10MHz (B4) + 5MHz (B2)	10MHz (B4) + 5MHz (B2)
	10MHz (B2) + 10MHz (B4)	10MHz (B4) + 10MHz (B2)	10MHz (B4) + 10MHz (B2)
	10MHz (B2) + 15MHz (B4)	10MHz (B4) + 15MHz (B2)	10MHz (B4) + 15MHz (B2)
	10MHz (B2) + 20MHz (B4)	10MHz (B4) + 20MHz (B2)	10MHz (B4) + 20MHz (B2)
	15MHz (B2) + 5MHz (B4)	15MHz (B4) + 5MHz (B2)	15MHz (B4) + 5MHz (B2)
	15MHz (B2) + 10MHz (B4)	15MHz (B4) + 10MHz (B2)	15MHz (B4) + 10MHz (B2)
	15MHz (B2) + 15MHz (B4)	15MHz (B4) + 15MHz (B2)	15MHz (B4) + 15MHz (B2)
	15MHz (B2) + 20MHz (B4)	15MHz (B4) + 20MHz (B2)	15MHz (B4) + 20MHz (B2)
	20MHz (B2) + 5MHz (B4)	20MHz (B4) + 5MHz (B2)	20MHz (B4) + 5MHz (B2)
	20MHz (B2) + 10MHz (B4)	20MHz (B4) + 10MHz (B2)	20MHz (B4) + 10MHz (B2)
	20MHz (B2) + 15MHz (B4)	20MHz (B4) + 15MHz (B2)	20MHz (B4) + 15MHz (B2)
	20MHz (B2) + 20MHz (B4)	20MHz (B4) + 20MHz (B2)	20MHz (B4) + 20MHz (B2)
LTE Carrier 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. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. Due to carrier capability, only the combinations listed above are supported. The following LTE Release 10 Features are not supported: Relay, HetNet, Enhanced MIMO, eIC, WFI Offloading, MDR, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.		

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3

INTRODUCTION

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/m³)
- 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.

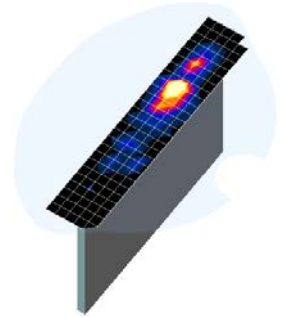


Figure 4-1
Sample SAR Area Scan

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	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤2 GHz	≤15	≤8	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
2-3 GHz	≤12	≤5	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
3-4 GHz	≤12	≤5	≤4	≤3	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥28
4-5 GHz	≤10	≤4	≤3	≤2.5	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥25
5-6 GHz	≤10	≤4	≤2	≤2	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥22

*Also compliant to IEEE 1528-2013 Table 6

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5 SAR TESTING PROCEDURES

5.1 SAR Testing for Tablet per 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 Proximity Sensor Considerations

This device uses independent power reduction mechanisms to reduce powers in certain use conditions for both PCB and WLAN operations when the device is used close the user's body. There are no dependencies on either mechanism (ie: the state of one mechanism does not affect the other).

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 and top edge of the device is 25 mm, a conservative distance of 24 mm was tested for SAR on the back side and top edge at maximum power for UMTS and LTE. Since the sensor activation distance for the back side of the device is 5 mm, a conservative distance of 4 mm was tested for SAR on the back side at maximum power for WLAN. 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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7.1 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 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

7.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03 "3G SAR Measurement Procedures."

The device is 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 are 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 is 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 deviates by more than 5%, the SAR test and drift measurements are repeated.

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

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, 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 (DPCCH, 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.

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7.4.2 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH_n configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCH_n, for the highest reported SAR configuration in 12.2 kbps RMC.

7.4.3 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

7.4.4 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

7.4.5 SAR Measurement Conditions for DC-HSDPA

SAR test exclusion for DC-HSDPA devices is determined by power measurements according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to qualify for SAR test exclusion. DC-HSDPA uplink maximum output power measurements using the four Rel. 5 HSDPA subtests in Table C.10.1.4 of TS 234.121-1 is required.

When the maximum average output power of each RF channel with DC-HSDPA active is $\leq \frac{1}{4}$ dB higher than that measured using 12.2 kbps RMC, or the maximum reported SAR for 12.2 kbps RMC is $\leq 75\%$ of the SAR limit, SAR evaluation for DC-HSDPA is not required.

7.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r03 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are 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).

7.5.1 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.

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7.5.2 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.

7.5.3 A-MPR

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

7.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r03:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. 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.
 - iii. 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.
- b. 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.
- 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 $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

7.5.5 Downlink Carrier Aggregation

LTE Carrier Aggregation (CA) measurements are 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 are 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 KDB Publication 941225 D05A v01r01, no SAR measurements are required when the average output power with downlink carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink carrier aggregation inactive.

7.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. 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

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chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01 Wi-Fi SAR v02 for more details.

7.6.1 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.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

7.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg.

7.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification.

Unless band gap channels are permanently disabled, SAR must be considered for these channels. When band gap channels are disabled, each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

7.6.4 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11 g/n OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed.

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7.6.5 OFDM Transmission Mode and SAR Test Channel Selection

For the 2.4 GHz and 5 GHz bands, when the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

7.6.6 Initial Test Configuration Procedure

For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, and lowest data rate. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 7.6.5).

7.6.7 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required.

7.6.8 MIMO SAR considerations

Per KDB 248227 D01 Wi-Fi SAR v02, the simultaneous SAR provisions in KDB Publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

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8 RF CONDUCTED POWERS

8.1 UMTS Conducted Powers

Table 8-1
Maximum Average RF Output Powers

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1862	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	22.76	22.68	22.63	23.40	23.27	23.17	22.17	22.05	22.01	-
6	HSDPA	Subtest 1	23.20	23.10	22.47	23.50	23.31	22.57	21.79	22.20	22.10	0
6		Subtest 2	23.19	22.92	22.37	23.46	23.25	22.47	21.62	22.08	21.93	0
6		Subtest 3	22.62	22.58	22.04	22.93	22.84	21.46	21.48	21.83	21.63	0.5
6		Subtest 4	22.37	22.32	21.79	22.98	22.54	22.02	21.48	21.83	21.67	0.5
6	HSUPA	Subtest 1	22.87	22.82	22.26	23.47	23.07	21.93	20.87	21.20	21.11	0
6		Subtest 2	21.95	21.82	21.41	22.12	21.73	21.02	20.52	20.94	20.82	2
6		Subtest 3	22.61	22.55	22.05	23.01	22.56	21.74	20.80	21.15	21.04	1
6		Subtest 4	21.79	21.72	21.46	22.05	21.63	20.88	19.79	20.19	20.01	2
6		Subtest 5	22.61	22.55	21.86	23.08	22.63	21.85	20.69	20.92	20.88	0
8	DC-HSDPA	Subtest 1	22.84	22.87	22.32	23.50	23.44	22.69	21.75	22.08	22.06	0
8		Subtest 2	22.98	22.92	22.37	23.48	23.45	22.69	21.72	21.94	21.93	0
8		Subtest 3	23.02	23.04	21.95	23.21	23.49	22.63	21.75	22.01	21.65	0.5
8		Subtest 4	22.31	22.15	21.64	23.06	22.62	21.78	21.93	22.05	21.64	0.5

Table 8-2
Reduced Average RF Output Powers – Body at 0.0 cm

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1862	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	16.96	16.94	16.84	14.89	14.91	14.99	14.68	14.88	14.96	-
6	HSDPA	Subtest 1	16.88	16.83	17.00	14.96	14.61	14.51	14.81	15.00	14.91	0
6		Subtest 2	16.73	16.70	16.90	14.85	14.64	14.32	14.71	14.96	15.00	0
6		Subtest 3	16.85	16.64	16.85	14.80	14.59	14.33	14.72	14.97	14.93	0.5
6		Subtest 4	16.83	16.70	16.91	14.71	14.61	14.23	14.59	14.96	14.92	0.5
6	HSUPA	Subtest 1	15.62	15.51	15.63	13.52	13.58	14.27	14.01	14.21	14.07	0
6		Subtest 2	16.77	16.59	16.78	14.50	14.67	14.30	14.52	14.92	14.87	2
6		Subtest 3	16.19	16.05	16.24	14.69	14.65	14.15	14.67	15.00	14.97	1
6		Subtest 4	16.72	16.53	16.75	14.62	14.64	14.04	14.55	14.93	14.82	2
6		Subtest 5	15.65	15.54	15.69	13.63	13.71	14.36	14.62	14.96	14.93	0
8	DC-HSDPA	Subtest 1	16.61	16.46	16.39	15.00	14.48	14.53	15.00	14.88	14.51	0
8		Subtest 2	16.73	16.46	16.43	14.89	14.52	14.52	15.00	14.76	14.37	0
8		Subtest 3	16.75	16.50	16.42	14.82	14.53	14.53	14.48	14.71	14.36	0.5
8		Subtest 4	16.73	16.45	16.42	14.97	14.51	14.51	14.49	14.73	14.33	0.5

DC-HSDPA considerations:

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA

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

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8.2 LTE Conducted Powers

8.2.1 LTE Band 12

Table 8-3
LTE Band 12 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	707.5	23095	10	QPSK	1	0	23.30	0	0
	707.5	23095	10	QPSK	1	25	23.33	0	0
	707.5	23095	10	QPSK	1	49	23.26	0	0
	707.5	23095	10	QPSK	25	0	22.04	0-1	1
	707.5	23095	10	QPSK	25	12	21.92	0-1	1
	707.5	23095	10	QPSK	25	25	21.85	0-1	1
	707.5	23095	10	QPSK	50	0	21.99	0-1	1
	707.5	23095	10	16QAM	1	0	22.30	0-1	1
	707.5	23095	10	16QAM	1	25	22.45	0-1	1
	707.5	23095	10	16QAM	1	49	22.33	0-1	1
	707.5	23095	10	16QAM	25	0	21.00	0-2	2
	707.5	23095	10	16QAM	25	12	20.89	0-2	2
	707.5	23095	10	16QAM	25	25	20.91	0-2	2
	707.5	23095	10	16QAM	50	0	20.96	0-2	2

Note: LTE Band 12 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 8-4
LTE Band 12 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	701.5	23035	5	QPSK	1	0	23.48	0	0
	701.5	23035	5	QPSK	1	12	23.50	0	0
	701.5	23035	5	QPSK	1	24	23.48	0	0
	701.5	23035	5	QPSK	12	0	22.17	0-1	1
	701.5	23035	5	QPSK	12	6	22.18	0-1	1
	701.5	23035	5	QPSK	12	13	22.19	0-1	1
	701.5	23035	5	QPSK	25	0	22.13	0-1	1
	701.5	23035	5	16-QAM	1	0	22.42	0-1	1
	701.5	23035	5	16-QAM	1	12	22.40	0-1	1
	701.5	23035	5	16-QAM	1	24	22.44	0-1	1
	701.5	23035	5	16-QAM	12	0	21.06	0-2	2
	701.5	23035	5	16-QAM	12	6	21.11	0-2	2
Mid	701.5	23035	5	16-QAM	12	13	21.10	0-2	2
	701.5	23035	5	16-QAM	25	0	21.14	0-2	2
	707.5	23095	5	QPSK	1	0	23.08	0	0
	707.5	23095	5	QPSK	1	12	23.04	0	0
	707.5	23095	5	QPSK	1	24	23.03	0	0
	707.5	23095	5	QPSK	12	0	21.98	0-1	1
	707.5	23095	5	QPSK	12	6	21.93	0-1	1
	707.5	23095	5	QPSK	12	13	21.88	0-1	1
	707.5	23095	5	QPSK	25	0	21.91	0-1	1
	707.5	23095	5	16-QAM	1	0	22.24	0-1	1
	707.5	23095	5	16-QAM	1	12	22.26	0-1	1
	707.5	23095	5	16-QAM	1	24	22.31	0-1	1
High	707.5	23095	5	16-QAM	12	0	20.89	0-2	2
	707.5	23095	5	16-QAM	12	6	20.85	0-2	2
	707.5	23095	5	16-QAM	12	13	20.89	0-2	2
	707.5	23095	5	16-QAM	25	0	20.92	0-2	2
	713.5	23155	5	QPSK	1	0	23.38	0	0
	713.5	23155	5	QPSK	1	12	23.21	0	0
	713.5	23155	5	QPSK	1	24	23.31	0	0
	713.5	23155	5	QPSK	12	0	21.96	0-1	1
	713.5	23155	5	QPSK	12	6	21.84	0-1	1
	713.5	23155	5	QPSK	12	13	21.89	0-1	1
	713.5	23155	5	QPSK	25	0	21.90	0-1	1
	713.5	23155	5	16-QAM	1	0	22.38	0-1	1
	713.5	23155	5	16-QAM	1	12	22.37	0-1	1
	713.5	23155	5	16-QAM	1	24	22.34	0-1	1
	713.5	23155	5	16-QAM	12	0	20.84	0-2	2
	713.5	23155	5	16-QAM	12	6	20.81	0-2	2
	713.5	23155	5	16-QAM	12	13	20.77	0-2	2
	713.5	23155	5	16-QAM	25	0	20.79	0-2	2

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Table 8-5
LTE Band 12 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	700.5	23025	3	QPSK	1	0	23.49	0	0
	700.5	23025	3	QPSK	1	7	23.48	0	0
	700.5	23025	3	QPSK	1	14	23.50	0	0
	700.5	23025	3	QPSK	8	0	22.11	0-1	1
	700.5	23025	3	QPSK	8	4	22.20	0-1	1
	700.5	23025	3	QPSK	8	7	22.21	0-1	1
	700.5	23025	3	QPSK	15	0	22.11	0-1	1
	700.5	23025	3	16-QAM	1	0	22.47	0-1	1
	700.5	23025	3	16-QAM	1	7	22.49	0-1	1
	700.5	23025	3	16-QAM	1	14	22.50	0-1	1
	700.5	23025	3	16-QAM	8	0	21.10	0-2	2
	700.5	23025	3	16-QAM	8	4	21.16	0-2	2
	700.5	23025	3	16-QAM	8	7	21.14	0-2	2
Mid	700.5	23025	3	16-QAM	15	0	20.98	0-2	2
	707.5	23095	3	QPSK	1	0	23.32	0	0
	707.5	23095	3	QPSK	1	7	23.26	0	0
	707.5	23095	3	QPSK	1	14	23.30	0	0
	707.5	23095	3	QPSK	8	0	21.95	0-1	1
	707.5	23095	3	QPSK	8	4	21.89	0-1	1
	707.5	23095	3	QPSK	8	7	21.86	0-1	1
	707.5	23095	3	QPSK	15	0	21.97	0-1	1
	707.5	23095	3	16-QAM	1	0	22.18	0-1	1
	707.5	23095	3	16-QAM	1	7	22.08	0-1	1
	707.5	23095	3	16-QAM	1	14	22.06	0-1	1
	707.5	23095	3	16-QAM	8	0	20.90	0-2	2
	707.5	23095	3	16-QAM	8	4	20.87	0-2	2
High	707.5	23095	3	16-QAM	8	7	20.83	0-2	2
	707.5	23095	3	16-QAM	15	0	20.97	0-2	2
	714.5	23165	3	QPSK	1	0	23.35	0	0
	714.5	23165	3	QPSK	1	7	23.35	0	0
	714.5	23165	3	QPSK	1	14	23.22	0	0
	714.5	23165	3	QPSK	8	0	21.76	0-1	1
	714.5	23165	3	QPSK	8	4	21.85	0-1	1
	714.5	23165	3	QPSK	8	7	21.83	0-1	1
	714.5	23165	3	QPSK	15	0	21.84	0-1	1
	714.5	23165	3	16-QAM	1	0	22.28	0-1	1
	714.5	23165	3	16-QAM	1	7	22.29	0-1	1
	714.5	23165	3	16-QAM	1	14	22.33	0-1	1
	714.5	23165	3	16-QAM	8	0	20.61	0-2	2
	714.5	23165	3	16-QAM	8	4	20.70	0-2	2
	714.5	23165	3	16-QAM	8	7	20.65	0-2	2
	714.5	23165	3	16-QAM	15	0	20.71	0-2	2

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Table 8-6
LTE Band 12 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	699.7	23017	1.4	QPSK	1	0	23.48	0	0
	699.7	23017	1.4	QPSK	1	2	23.47	0	0
	699.7	23017	1.4	QPSK	1	5	23.50	0	0
	699.7	23017	1.4	QPSK	3	0	23.31	0	0
	699.7	23017	1.4	QPSK	3	2	23.34	0	0
	699.7	23017	1.4	QPSK	3	3	23.38	0	0
	699.7	23017	1.4	QPSK	6	0	22.18	0-1	1
	699.7	23017	1.4	16-QAM	1	0	22.49	0-1	1
	699.7	23017	1.4	16-QAM	1	2	22.50	0-1	1
	699.7	23017	1.4	16-QAM	1	5	22.49	0-1	1
	699.7	23017	1.4	16-QAM	3	0	22.06	0-1	1
	699.7	23017	1.4	16-QAM	3	2	22.21	0-1	1
	699.7	23017	1.4	16-QAM	3	3	22.13	0-1	1
	699.7	23017	1.4	16-QAM	6	0	21.12	0-2	2
Mid	707.5	23095	1.4	QPSK	1	0	23.23	0	0
	707.5	23095	1.4	QPSK	1	2	23.24	0	0
	707.5	23095	1.4	QPSK	1	5	23.30	0	0
	707.5	23095	1.4	QPSK	3	0	23.10	0	0
	707.5	23095	1.4	QPSK	3	2	23.08	0	0
	707.5	23095	1.4	QPSK	3	3	22.99	0	0
	707.5	23095	1.4	QPSK	6	0	21.98	0-1	1
	707.5	23095	1.4	16-QAM	1	0	22.25	0-1	1
	707.5	23095	1.4	16-QAM	1	2	22.24	0-1	1
	707.5	23095	1.4	16-QAM	1	5	22.27	0-1	1
	707.5	23095	1.4	16-QAM	3	0	22.05	0-1	1
	707.5	23095	1.4	16-QAM	3	2	22.01	0-1	1
	707.5	23095	1.4	16-QAM	3	3	22.03	0-1	1
	707.5	23095	1.4	16-QAM	6	0	20.80	0-2	2
High	715.3	23173	1.4	QPSK	1	0	23.28	0	0
	715.3	23173	1.4	QPSK	1	2	23.26	0	0
	715.3	23173	1.4	QPSK	1	5	23.22	0	0
	715.3	23173	1.4	QPSK	3	0	23.06	0	0
	715.3	23173	1.4	QPSK	3	2	23.04	0	0
	715.3	23173	1.4	QPSK	3	3	22.98	0	0
	715.3	23173	1.4	QPSK	6	0	21.93	0-1	1
	715.3	23173	1.4	16-QAM	1	0	22.36	0-1	1
	715.3	23173	1.4	16-QAM	1	2	22.40	0-1	1
	715.3	23173	1.4	16-QAM	1	5	22.39	0-1	1
	715.3	23173	1.4	16-QAM	3	0	22.18	0-1	1
	715.3	23173	1.4	16-QAM	3	2	22.10	0-1	1
	715.3	23173	1.4	16-QAM	3	3	22.00	0-1	1
	715.3	23173	1.4	16-QAM	6	0	20.71	0-2	2

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Table 8-7
LTE Band 12 Conducted Powers - 10 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	707.5	23095	10	QPSK	1	0	17.61	0	0
	707.5	23095	10	QPSK	1	25	17.60	0	0
	707.5	23095	10	QPSK	1	49	17.65	0	0
	707.5	23095	10	QPSK	25	0	16.38	0-1	1
	707.5	23095	10	QPSK	25	12	16.45	0-1	1
	707.5	23095	10	QPSK	25	25	16.34	0-1	1
	707.5	23095	10	QPSK	50	0	16.36	0-1	1
	707.5	23095	10	16QAM	1	0	16.77	0-1	1
	707.5	23095	10	16QAM	1	25	16.71	0-1	1
	707.5	23095	10	16QAM	1	49	16.75	0-1	1
	707.5	23095	10	16QAM	25	0	15.34	0-2	2
	707.5	23095	10	16QAM	25	12	15.42	0-2	2
	707.5	23095	10	16QAM	25	25	15.40	0-2	2
	707.5	23095	10	16QAM	50	0	15.45	0-2	2

Note: LTE Band 12 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 8-8
LTE Band 12 Conducted Powers - 5 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	701.5	23035	5	QPSK	1	0	17.77	0	0
	701.5	23035	5	QPSK	1	12	17.64	0	0
	701.5	23035	5	QPSK	1	24	17.74	0	0
	701.5	23035	5	QPSK	12	0	16.64	0-1	1
	701.5	23035	5	QPSK	12	6	16.64	0-1	1
	701.5	23035	5	QPSK	12	13	16.69	0-1	1
	701.5	23035	5	QPSK	25	0	16.63	0-1	1
	701.5	23035	5	16-QAM	1	0	16.81	0-1	1
	701.5	23035	5	16-QAM	1	12	16.86	0-1	1
	701.5	23035	5	16-QAM	1	24	16.86	0-1	1
	701.5	23035	5	16-QAM	12	0	15.50	0-2	2
	701.5	23035	5	16-QAM	12	6	15.52	0-2	2
	701.5	23035	5	16-QAM	12	13	15.55	0-2	2
Mid	701.5	23035	5	16-QAM	25	0	15.61	0-2	2
	707.5	23095	5	QPSK	1	0	17.70	0	0
	707.5	23095	5	QPSK	1	12	17.62	0	0
	707.5	23095	5	QPSK	1	24	17.71	0	0
	707.5	23095	5	QPSK	12	0	16.37	0-1	1
	707.5	23095	5	QPSK	12	6	16.35	0-1	1
	707.5	23095	5	QPSK	12	13	16.36	0-1	1
	707.5	23095	5	QPSK	25	0	16.33	0-1	1
	707.5	23095	5	16-QAM	1	0	16.71	0-1	1
	707.5	23095	5	16-QAM	1	12	16.63	0-1	1
	707.5	23095	5	16-QAM	1	24	16.61	0-1	1
	707.5	23095	5	16-QAM	12	0	15.36	0-2	2
	707.5	23095	5	16-QAM	12	6	15.34	0-2	2
	707.5	23095	5	16-QAM	12	13	15.38	0-2	2
High	707.5	23095	5	16-QAM	25	0	15.48	0-2	2
	713.5	23155	5	QPSK	1	0	17.77	0	0
	713.5	23155	5	QPSK	1	12	17.64	0	0
	713.5	23155	5	QPSK	1	24	17.73	0	0
	713.5	23155	5	QPSK	12	0	16.63	0-1	1
	713.5	23155	5	QPSK	12	6	16.54	0-1	1
	713.5	23155	5	QPSK	12	13	16.68	0-1	1
	713.5	23155	5	QPSK	25	0	16.52	0-1	1
	713.5	23155	5	16-QAM	1	0	16.82	0-1	1
	713.5	23155	5	16-QAM	1	12	16.86	0-1	1
	713.5	23155	5	16-QAM	1	24	16.85	0-1	1
	713.5	23155	5	16-QAM	12	0	15.50	0-2	2
	713.5	23155	5	16-QAM	12	6	15.51	0-2	2
	713.5	23155	5	16-QAM	12	13	15.55	0-2	2
	713.5	23155	5	16-QAM	25	0	15.61	0-2	2

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Table 8-9
LTE Band 12 Conducted Powers - 3 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	700.5	23025	3	QPSK	1	0	18.04	0	0
	700.5	23025	3	QPSK	1	7	17.93	0	0
	700.5	23025	3	QPSK	1	14	18.06	0	0
	700.5	23025	3	QPSK	8	0	16.66	0-1	1
	700.5	23025	3	QPSK	8	4	16.74	0-1	1
	700.5	23025	3	QPSK	8	7	16.72	0-1	1
	700.5	23025	3	QPSK	15	0	16.73	0-1	1
	700.5	23025	3	16-QAM	1	0	17.06	0-1	1
	700.5	23025	3	16-QAM	1	7	17.00	0-1	1
	700.5	23025	3	16-QAM	1	14	16.99	0-1	1
	700.5	23025	3	16-QAM	8	0	15.68	0-2	2
	700.5	23025	3	16-QAM	8	4	15.76	0-2	2
	700.5	23025	3	16-QAM	8	7	15.75	0-2	2
Mid	700.5	23025	3	16-QAM	15	0	15.75	0-2	2
	707.5	23095	3	QPSK	1	0	17.76	0	0
	707.5	23095	3	QPSK	1	7	17.77	0	0
	707.5	23095	3	QPSK	1	14	17.82	0	0
	707.5	23095	3	QPSK	8	0	16.51	0-1	1
	707.5	23095	3	QPSK	8	4	16.37	0-1	1
	707.5	23095	3	QPSK	8	7	16.42	0-1	1
	707.5	23095	3	QPSK	15	0	16.47	0-1	1
	707.5	23095	3	16-QAM	1	0	16.85	0-1	1
	707.5	23095	3	16-QAM	1	7	16.62	0-1	1
	707.5	23095	3	16-QAM	1	14	16.66	0-1	1
	707.5	23095	3	16-QAM	8	0	15.44	0-2	2
	707.5	23095	3	16-QAM	8	4	15.38	0-2	2
High	707.5	23095	3	16-QAM	8	7	15.37	0-2	2
	707.5	23095	3	16-QAM	15	0	15.52	0-2	2
	714.5	23165	3	QPSK	1	0	17.69	0	0
	714.5	23165	3	QPSK	1	7	17.59	0	0
	714.5	23165	3	QPSK	1	14	17.70	0	0
	714.5	23165	3	QPSK	8	0	16.43	0-1	1
	714.5	23165	3	QPSK	8	4	16.40	0-1	1
	714.5	23165	3	QPSK	8	7	16.44	0-1	1
	714.5	23165	3	QPSK	15	0	16.38	0-1	1
	714.5	23165	3	16-QAM	1	0	16.64	0-1	1
	714.5	23165	3	16-QAM	1	7	16.58	0-1	1
	714.5	23165	3	16-QAM	1	14	16.56	0-1	1
	714.5	23165	3	16-QAM	8	0	15.32	0-2	2
	714.5	23165	3	16-QAM	8	4	15.32	0-2	2
	714.5	23165	3	16-QAM	8	7	15.36	0-2	2
	714.5	23165	3	16-QAM	15	0	15.38	0-2	2

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Table 8-10
LTE Band 12 Conducted Powers – 1.4 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	699.7	23017	1.4	QPSK	1	0	17.84	0	0
	699.7	23017	1.4	QPSK	1	2	17.88	0	0
	699.7	23017	1.4	QPSK	1	5	17.87	0	0
	699.7	23017	1.4	QPSK	3	0	17.72	0	0
	699.7	23017	1.4	QPSK	3	2	17.78	0	0
	699.7	23017	1.4	QPSK	3	3	17.79	0	0
	699.7	23017	1.4	QPSK	6	0	16.72	0-1	1
	699.7	23017	1.4	16-QAM	1	0	17.00	0-1	1
	699.7	23017	1.4	16-QAM	1	2	17.10	0-1	1
	699.7	23017	1.4	16-QAM	1	5	17.19	0-1	1
	699.7	23017	1.4	16-QAM	3	0	16.51	0-1	1
	699.7	23017	1.4	16-QAM	3	2	16.60	0-1	1
	699.7	23017	1.4	16-QAM	3	3	16.57	0-1	1
	699.7	23017	1.4	16-QAM	6	0	15.53	0-2	2
Mid	707.5	23095	1.4	QPSK	1	0	17.76	0	0
	707.5	23095	1.4	QPSK	1	2	17.69	0	0
	707.5	23095	1.4	QPSK	1	5	17.79	0	0
	707.5	23095	1.4	QPSK	3	0	17.51	0	0
	707.5	23095	1.4	QPSK	3	2	17.50	0	0
	707.5	23095	1.4	QPSK	3	3	17.52	0	0
	707.5	23095	1.4	QPSK	6	0	16.50	0-1	1
	707.5	23095	1.4	16-QAM	1	0	16.85	0-1	1
	707.5	23095	1.4	16-QAM	1	2	16.51	0-1	1
	707.5	23095	1.4	16-QAM	1	5	16.72	0-1	1
	707.5	23095	1.4	16-QAM	3	0	16.48	0-1	1
	707.5	23095	1.4	16-QAM	3	2	16.38	0-1	1
	707.5	23095	1.4	16-QAM	3	3	16.38	0-1	1
	707.5	23095	1.4	16-QAM	6	0	15.49	0-2	2
High	715.3	23173	1.4	QPSK	1	0	17.64	0	0
	715.3	23173	1.4	QPSK	1	2	17.65	0	0
	715.3	23173	1.4	QPSK	1	5	17.71	0	0
	715.3	23173	1.4	QPSK	3	0	17.34	0	0
	715.3	23173	1.4	QPSK	3	2	17.38	0	0
	715.3	23173	1.4	QPSK	3	3	17.42	0	0
	715.3	23173	1.4	QPSK	6	0	16.34	0-1	1
	715.3	23173	1.4	16-QAM	1	0	16.67	0-1	1
	715.3	23173	1.4	16-QAM	1	2	16.60	0-1	1
	715.3	23173	1.4	16-QAM	1	5	16.79	0-1	1
	715.3	23173	1.4	16-QAM	3	0	16.36	0-1	1
	715.3	23173	1.4	16-QAM	3	2	16.47	0-1	1
	715.3	23173	1.4	16-QAM	3	3	16.48	0-1	1
	715.3	23173	1.4	16-QAM	6	0	15.66	0-2	2

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LTE Band 5 (Cell)

Table 8-11
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	23.11	0	0
	836.5	20525	10	QPSK	1	25	23.15	0	0
	836.5	20525	10	QPSK	1	49	22.98	0	0
	836.5	20525	10	QPSK	25	0	21.66	0-1	1
	836.5	20525	10	QPSK	25	12	21.65	0-1	1
	836.5	20525	10	QPSK	25	25	21.62	0-1	1
	836.5	20525	10	QPSK	50	0	21.60	0-1	1
	836.5	20525	10	16QAM	1	0	21.83	0-1	1
	836.5	20525	10	16QAM	1	25	21.85	0-1	1
	836.5	20525	10	16QAM	1	49	21.79	0-1	1
	836.5	20525	10	16QAM	25	0	20.57	0-2	2
	836.5	20525	10	16QAM	25	12	20.52	0-2	2
	836.5	20525	10	16QAM	25	25	20.55	0-2	2
	836.5	20525	10	16QAM	50	0	20.51	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.

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Table 8-12
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	22.99	0	0
	826.5	20425	5	QPSK	1	12	23.01	0	0
	826.5	20425	5	QPSK	1	24	23.05	0	0
	826.5	20425	5	QPSK	12	0	21.62	0-1	1
	826.5	20425	5	QPSK	12	6	21.65	0-1	1
	826.5	20425	5	QPSK	12	13	21.72	0-1	1
	826.5	20425	5	QPSK	25	0	21.63	0-1	1
	826.5	20425	5	16-QAM	1	0	22.15	0-1	1
	826.5	20425	5	16-QAM	1	12	22.19	0-1	1
	826.5	20425	5	16-QAM	1	24	22.20	0-1	1
	826.5	20425	5	16-QAM	12	0	20.55	0-2	2
	826.5	20425	5	16-QAM	12	6	20.63	0-2	2
	826.5	20425	5	16-QAM	12	13	20.70	0-2	2
	826.5	20425	5	16-QAM	25	0	20.70	0-2	2
Mid	836.5	20525	5	QPSK	1	0	23.02	0	0
	836.5	20525	5	QPSK	1	12	23.06	0	0
	836.5	20525	5	QPSK	1	24	23.10	0	0
	836.5	20525	5	QPSK	12	0	21.78	0-1	1
	836.5	20525	5	QPSK	12	6	21.77	0-1	1
	836.5	20525	5	QPSK	12	13	21.80	0-1	1
	836.5	20525	5	QPSK	25	0	21.69	0-1	1
	836.5	20525	5	16-QAM	1	0	22.23	0-1	1
	836.5	20525	5	16-QAM	1	12	22.21	0-1	1
	836.5	20525	5	16-QAM	1	24	22.36	0-1	1
	836.5	20525	5	16-QAM	12	0	20.62	0-2	2
	836.5	20525	5	16-QAM	12	6	20.64	0-2	2
	836.5	20525	5	16-QAM	12	13	20.69	0-2	2
	836.5	20525	5	16-QAM	25	0	20.60	0-2	2
High	846.5	20625	5	QPSK	1	0	23.03	0	0
	846.5	20625	5	QPSK	1	12	23.01	0	0
	846.5	20625	5	QPSK	1	24	23.06	0	0
	846.5	20625	5	QPSK	12	0	21.60	0-1	1
	846.5	20625	5	QPSK	12	6	21.61	0-1	1
	846.5	20625	5	QPSK	12	13	21.55	0-1	1
	846.5	20625	5	QPSK	25	0	21.61	0-1	1
	846.5	20625	5	16-QAM	1	0	22.06	0-1	1
	846.5	20625	5	16-QAM	1	12	22.15	0-1	1
	846.5	20625	5	16-QAM	1	24	22.22	0-1	1
	846.5	20625	5	16-QAM	12	0	20.62	0-2	2
	846.5	20625	5	16-QAM	12	6	20.60	0-2	2
	846.5	20625	5	16-QAM	12	13	20.56	0-2	2
	846.5	20625	5	16-QAM	25	0	20.57	0-2	2

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Table 8-13
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	22.97	0	0
	825.5	20415	3	QPSK	1	7	23.05	0	0
	825.5	20415	3	QPSK	1	14	23.08	0	0
	825.5	20415	3	QPSK	8	0	21.62	0-1	1
	825.5	20415	3	QPSK	8	4	21.66	0-1	1
	825.5	20415	3	QPSK	8	7	21.71	0-1	1
	825.5	20415	3	QPSK	15	0	21.64	0-1	1
	825.5	20415	3	16-QAM	1	0	22.19	0-1	1
	825.5	20415	3	16-QAM	1	7	22.21	0-1	1
	825.5	20415	3	16-QAM	1	14	22.20	0-1	1
	825.5	20415	3	16-QAM	8	0	20.54	0-2	2
	825.5	20415	3	16-QAM	8	4	20.66	0-2	2
	825.5	20415	3	16-QAM	8	7	20.69	0-2	2
	825.5	20415	3	16-QAM	15	0	20.67	0-2	2
Mid	836.5	20525	3	QPSK	1	0	23.00	0	0
	836.5	20525	3	QPSK	1	7	23.10	0	0
	836.5	20525	3	QPSK	1	14	23.13	0	0
	836.5	20525	3	QPSK	8	0	21.75	0-1	1
	836.5	20525	3	QPSK	8	4	21.80	0-1	1
	836.5	20525	3	QPSK	8	7	21.78	0-1	1
	836.5	20525	3	QPSK	15	0	21.71	0-1	1
	836.5	20525	3	16-QAM	1	0	22.26	0-1	1
	836.5	20525	3	16-QAM	1	7	22.25	0-1	1
	836.5	20525	3	16-QAM	1	14	22.33	0-1	1
	836.5	20525	3	16-QAM	8	0	20.59	0-2	2
	836.5	20525	3	16-QAM	8	4	20.63	0-2	2
	836.5	20525	3	16-QAM	8	7	20.66	0-2	2
	836.5	20525	3	16-QAM	15	0	20.59	0-2	2
High	847.5	20635	3	QPSK	1	0	22.99	0	0
	847.5	20635	3	QPSK	1	7	23.01	0	0
	847.5	20635	3	QPSK	1	14	23.05	0	0
	847.5	20635	3	QPSK	8	0	21.62	0-1	1
	847.5	20635	3	QPSK	8	4	21.64	0-1	1
	847.5	20635	3	QPSK	8	7	21.59	0-1	1
	847.5	20635	3	QPSK	15	0	21.58	0-1	1
	847.5	20635	3	16-QAM	1	0	22.06	0-1	1
	847.5	20635	3	16-QAM	1	7	22.19	0-1	1
	847.5	20635	3	16-QAM	1	14	22.20	0-1	1
	847.5	20635	3	16-QAM	8	0	20.61	0-2	2
	847.5	20635	3	16-QAM	8	4	20.60	0-2	2
	847.5	20635	3	16-QAM	8	7	20.53	0-2	2
	847.5	20635	3	16-QAM	15	0	20.58	0-2	2

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Table 8-14
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	22.96	0	0
	824.7	20407	1.4	QPSK	1	2	23.05	0	0
	824.7	20407	1.4	QPSK	1	5	23.05	0	0
	824.7	20407	1.4	QPSK	3	0	22.59	0	0
	824.7	20407	1.4	QPSK	3	2	22.67	0	0
	824.7	20407	1.4	QPSK	3	3	22.74	0	0
	824.7	20407	1.4	QPSK	6	0	21.60	0-1	1
	824.7	20407	1.4	16-QAM	1	0	22.23	0-1	1
	824.7	20407	1.4	16-QAM	1	2	22.23	0-1	1
	824.7	20407	1.4	16-QAM	1	5	22.21	0-1	1
	824.7	20407	1.4	16-QAM	3	0	21.52	0-1	1
	824.7	20407	1.4	16-QAM	3	2	21.69	0-1	1
	824.7	20407	1.4	16-QAM	3	3	21.70	0-1	1
Mid	836.5	20525	1.4	QPSK	1	0	22.99	0	0
	836.5	20525	1.4	QPSK	1	2	23.06	0	0
	836.5	20525	1.4	QPSK	1	5	23.09	0	0
	836.5	20525	1.4	QPSK	3	0	22.76	0	0
	836.5	20525	1.4	QPSK	3	2	22.79	0	0
	836.5	20525	1.4	QPSK	3	3	22.80	0	0
	836.5	20525	1.4	QPSK	6	0	21.67	0-1	1
	836.5	20525	1.4	16-QAM	1	0	22.24	0-1	1
	836.5	20525	1.4	16-QAM	1	2	22.22	0-1	1
	836.5	20525	1.4	16-QAM	1	5	22.34	0-1	1
	836.5	20525	1.4	16-QAM	3	0	21.60	0-1	1
	836.5	20525	1.4	16-QAM	3	2	21.67	0-1	1
	836.5	20525	1.4	16-QAM	3	3	21.66	0-1	1
	836.5	20525	1.4	16-QAM	6	0	20.55	0-2	2
High	848.3	20643	1.4	QPSK	1	0	23.03	0	0
	848.3	20643	1.4	QPSK	1	2	22.99	0	0
	848.3	20643	1.4	QPSK	1	5	23.08	0	0
	848.3	20643	1.4	QPSK	3	0	22.62	0	0
	848.3	20643	1.4	QPSK	3	2	22.67	0	0
	848.3	20643	1.4	QPSK	3	3	22.63	0	0
	848.3	20643	1.4	QPSK	6	0	21.55	0-1	1
	848.3	20643	1.4	16-QAM	1	0	22.09	0-1	1
	848.3	20643	1.4	16-QAM	1	2	22.22	0-1	1
	848.3	20643	1.4	16-QAM	1	5	22.18	0-1	1
	848.3	20643	1.4	16-QAM	3	0	21.58	0-1	1
	848.3	20643	1.4	16-QAM	3	2	21.64	0-1	1
	848.3	20643	1.4	16-QAM	3	3	21.57	0-1	1
	848.3	20643	1.4	16-QAM	6	0	20.58	0-2	2

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Table 8-15
LTE Band 5 (Cell) Conducted Powers - 10 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	16.59	0	0
	836.5	20525	10	QPSK	1	25	17.15	0	0
	836.5	20525	10	QPSK	1	49	16.62	0	0
	836.5	20525	10	QPSK	25	0	15.94	0-1	1
	836.5	20525	10	QPSK	25	12	15.87	0-1	1
	836.5	20525	10	QPSK	25	25	15.86	0-1	1
	836.5	20525	10	QPSK	50	0	15.93	0-1	1
	836.5	20525	10	16QAM	1	0	16.00	0-1	1
	836.5	20525	10	16QAM	1	25	16.06	0-1	1
	836.5	20525	10	16QAM	1	49	16.04	0-1	1
	836.5	20525	10	16QAM	25	0	14.92	0-2	2
	836.5	20525	10	16QAM	25	12	14.90	0-2	2
	836.5	20525	10	16QAM	25	25	14.85	0-2	2
	836.5	20525	10	16QAM	50	0	14.97	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.

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Table 8-16
LTE Band 5 (Cell) Conducted Powers - 5 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	17.11	0	0
	826.5	20425	5	QPSK	1	12	17.17	0	0
	826.5	20425	5	QPSK	1	24	17.10	0	0
	826.5	20425	5	QPSK	12	0	16.06	0-1	1
	826.5	20425	5	QPSK	12	6	16.04	0-1	1
	826.5	20425	5	QPSK	12	13	16.03	0-1	1
	826.5	20425	5	QPSK	25	0	16.01	0-1	1
	826.5	20425	5	16-QAM	1	0	16.14	0-1	1
	826.5	20425	5	16-QAM	1	12	16.18	0-1	1
	826.5	20425	5	16-QAM	1	24	16.10	0-1	1
	826.5	20425	5	16-QAM	12	0	15.02	0-2	2
	826.5	20425	5	16-QAM	12	6	14.99	0-2	2
	826.5	20425	5	16-QAM	12	13	14.96	0-2	2
	826.5	20425	5	16-QAM	25	0	15.00	0-2	2
Mid	836.5	20525	5	QPSK	1	0	17.13	0	0
	836.5	20525	5	QPSK	1	12	17.15	0	0
	836.5	20525	5	QPSK	1	24	17.11	0	0
	836.5	20525	5	QPSK	12	0	15.97	0-1	1
	836.5	20525	5	QPSK	12	6	15.94	0-1	1
	836.5	20525	5	QPSK	12	13	15.93	0-1	1
	836.5	20525	5	QPSK	25	0	16.10	0-1	1
	836.5	20525	5	16-QAM	1	0	16.11	0-1	1
	836.5	20525	5	16-QAM	1	12	16.18	0-1	1
	836.5	20525	5	16-QAM	1	24	16.10	0-1	1
	836.5	20525	5	16-QAM	12	0	14.92	0-2	2
	836.5	20525	5	16-QAM	12	6	14.90	0-2	2
	836.5	20525	5	16-QAM	12	13	14.92	0-2	2
	836.5	20525	5	16-QAM	25	0	14.94	0-2	2
High	846.5	20625	5	QPSK	1	0	17.18	0	0
	846.5	20625	5	QPSK	1	12	17.19	0	0
	846.5	20625	5	QPSK	1	24	17.11	0	0
	846.5	20625	5	QPSK	12	0	15.89	0-1	1
	846.5	20625	5	QPSK	12	6	15.83	0-1	1
	846.5	20625	5	QPSK	12	13	15.85	0-1	1
	846.5	20625	5	QPSK	25	0	15.92	0-1	1
	846.5	20625	5	16-QAM	1	0	15.86	0-1	1
	846.5	20625	5	16-QAM	1	12	15.96	0-1	1
	846.5	20625	5	16-QAM	1	24	15.88	0-1	1
	846.5	20625	5	16-QAM	12	0	14.89	0-2	2
	846.5	20625	5	16-QAM	12	6	14.81	0-2	2
	846.5	20625	5	16-QAM	12	13	14.85	0-2	2
	846.5	20625	5	16-QAM	25	0	14.87	0-2	2

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Table 8-17
LTE Band 5 (Cell) Conducted Powers - 3 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	17.46	0	0
	825.5	20415	3	QPSK	1	7	17.48	0	0
	825.5	20415	3	QPSK	1	14	17.43	0	0
	825.5	20415	3	QPSK	8	0	16.28	0-1	1
	825.5	20415	3	QPSK	8	4	16.20	0-1	1
	825.5	20415	3	QPSK	8	7	16.22	0-1	1
	825.5	20415	3	QPSK	15	0	16.24	0-1	1
	825.5	20415	3	16-QAM	1	0	16.49	0-1	1
	825.5	20415	3	16-QAM	1	7	16.50	0-1	1
	825.5	20415	3	16-QAM	1	14	16.47	0-1	1
	825.5	20415	3	16-QAM	8	0	15.34	0-2	2
	825.5	20415	3	16-QAM	8	4	15.26	0-2	2
	825.5	20415	3	16-QAM	8	7	15.28	0-2	2
	825.5	20415	3	16-QAM	15	0	15.30	0-2	2
Mid	836.5	20525	3	QPSK	1	0	17.49	0	0
	836.5	20525	3	QPSK	1	7	17.44	0	0
	836.5	20525	3	QPSK	1	14	17.43	0	0
	836.5	20525	3	QPSK	8	0	16.26	0-1	1
	836.5	20525	3	QPSK	8	4	16.21	0-1	1
	836.5	20525	3	QPSK	8	7	16.20	0-1	1
	836.5	20525	3	QPSK	15	0	16.20	0-1	1
	836.5	20525	3	16-QAM	1	0	16.49	0-1	1
	836.5	20525	3	16-QAM	1	7	16.47	0-1	1
	836.5	20525	3	16-QAM	1	14	16.48	0-1	1
	836.5	20525	3	16-QAM	8	0	15.28	0-2	2
	836.5	20525	3	16-QAM	8	4	15.22	0-2	2
	836.5	20525	3	16-QAM	8	7	15.21	0-2	2
	836.5	20525	3	16-QAM	15	0	15.15	0-2	2
High	847.5	20635	3	QPSK	1	0	17.30	0	0
	847.5	20635	3	QPSK	1	7	17.21	0	0
	847.5	20635	3	QPSK	1	14	17.28	0	0
	847.5	20635	3	QPSK	8	0	16.08	0-1	1
	847.5	20635	3	QPSK	8	4	16.05	0-1	1
	847.5	20635	3	QPSK	8	7	15.96	0-1	1
	847.5	20635	3	QPSK	15	0	16.12	0-1	1
	847.5	20635	3	16-QAM	1	0	16.44	0-1	1
	847.5	20635	3	16-QAM	1	7	16.16	0-1	1
	847.5	20635	3	16-QAM	1	14	16.26	0-1	1
	847.5	20635	3	16-QAM	8	0	15.02	0-2	2
	847.5	20635	3	16-QAM	8	4	15.03	0-2	2
	847.5	20635	3	16-QAM	8	7	15.03	0-2	2
	847.5	20635	3	16-QAM	15	0	15.09	0-2	2

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Table 8-18
LTE Band 5 (Cell) Conducted Powers -1.4 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	17.37	0	0
	824.7	20407	1.4	QPSK	1	2	17.38	0	0
	824.7	20407	1.4	QPSK	1	5	17.42	0	0
	824.7	20407	1.4	QPSK	3	0	17.25	0	0
	824.7	20407	1.4	QPSK	3	2	17.21	0	0
	824.7	20407	1.4	QPSK	3	3	17.20	0	0
	824.7	20407	1.4	QPSK	6	0	16.20	0-1	1
	824.7	20407	1.4	16-QAM	1	0	16.45	0-1	1
	824.7	20407	1.4	16-QAM	1	2	16.45	0-1	1
	824.7	20407	1.4	16-QAM	1	5	16.48	0-1	1
	824.7	20407	1.4	16-QAM	3	0	16.18	0-1	1
	824.7	20407	1.4	16-QAM	3	2	16.16	0-1	1
	824.7	20407	1.4	16-QAM	3	3	16.10	0-1	1
	824.7	20407	1.4	16-QAM	6	0	15.25	0-2	2
Mid	836.5	20525	1.4	QPSK	1	0	17.39	0	0
	836.5	20525	1.4	QPSK	1	2	17.44	0	0
	836.5	20525	1.4	QPSK	1	5	17.48	0	0
	836.5	20525	1.4	QPSK	3	0	17.25	0	0
	836.5	20525	1.4	QPSK	3	2	17.23	0	0
	836.5	20525	1.4	QPSK	3	3	17.26	0	0
	836.5	20525	1.4	QPSK	6	0	16.22	0-1	1
	836.5	20525	1.4	16-QAM	1	0	16.50	0-1	1
	836.5	20525	1.4	16-QAM	1	2	16.43	0-1	1
	836.5	20525	1.4	16-QAM	1	5	16.45	0-1	1
	836.5	20525	1.4	16-QAM	3	0	16.32	0-1	1
	836.5	20525	1.4	16-QAM	3	2	16.08	0-1	1
	836.5	20525	1.4	16-QAM	3	3	16.10	0-1	1
	836.5	20525	1.4	16-QAM	6	0	15.30	0-2	2
High	848.3	20643	1.4	QPSK	1	0	17.24	0	0
	848.3	20643	1.4	QPSK	1	2	17.16	0	0
	848.3	20643	1.4	QPSK	1	5	17.23	0	0
	848.3	20643	1.4	QPSK	3	0	17.09	0	0
	848.3	20643	1.4	QPSK	3	2	16.99	0	0
	848.3	20643	1.4	QPSK	3	3	17.08	0	0
	848.3	20643	1.4	QPSK	6	0	16.11	0-1	1
	848.3	20643	1.4	16-QAM	1	0	16.45	0-1	1
	848.3	20643	1.4	16-QAM	1	2	16.42	0-1	1
	848.3	20643	1.4	16-QAM	1	5	16.26	0-1	1
	848.3	20643	1.4	16-QAM	3	0	15.93	0-1	1
	848.3	20643	1.4	16-QAM	3	2	15.88	0-1	1
	848.3	20643	1.4	16-QAM	3	3	15.98	0-1	1
	848.3	20643	1.4	16-QAM	6	0	15.04	0-2	2

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LTE Band 4 (AWS)

Table 8-19
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	23.44	0	0
	1732.5	20175	20	QPSK	1	50	23.45	0	0
	1732.5	20175	20	QPSK	1	99	23.47	0	0
	1732.5	20175	20	QPSK	50	0	21.86	0-1	1
	1732.5	20175	20	QPSK	50	25	21.95	0-1	1
	1732.5	20175	20	QPSK	50	50	21.96	0-1	1
	1732.5	20175	20	QPSK	100	0	21.93	0-1	1
	1732.5	20175	20	16QAM	1	0	22.06	0-1	1
	1732.5	20175	20	16QAM	1	50	21.96	0-1	1
	1732.5	20175	20	16QAM	1	99	22.06	0-1	1
	1732.5	20175	20	16QAM	50	0	20.85	0-2	2
	1732.5	20175	20	16QAM	50	25	20.98	0-2	2
	1732.5	20175	20	16QAM	50	50	20.82	0-2	2
	1732.5	20175	20	16QAM	100	0	20.92	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.

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Table 8-20
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	23.29	0	0
	1717.5	20025	15	QPSK	1	36	23.41	0	0
	1717.5	20025	15	QPSK	1	74	23.41	0	0
	1717.5	20025	15	QPSK	36	0	22.04	0-1	1
	1717.5	20025	15	QPSK	36	18	22.03	0-1	1
	1717.5	20025	15	QPSK	36	37	22.05	0-1	1
	1717.5	20025	15	QPSK	75	0	21.99	0-1	1
	1717.5	20025	15	16QAM	1	0	22.22	0-1	1
	1717.5	20025	15	16QAM	1	36	21.99	0-1	1
	1717.5	20025	15	16QAM	1	74	22.20	0-1	1
	1717.5	20025	15	16QAM	36	0	21.06	0-2	2
	1717.5	20025	15	16QAM	36	18	21.02	0-2	2
	1717.5	20025	15	16QAM	36	37	20.95	0-2	2
	1717.5	20025	15	16QAM	75	0	21.09	0-2	2
Mid	1732.5	20175	15	QPSK	1	0	22.98	0	0
	1732.5	20175	15	QPSK	1	36	23.23	0	0
	1732.5	20175	15	QPSK	1	74	23.11	0	0
	1732.5	20175	15	QPSK	36	0	21.94	0-1	1
	1732.5	20175	15	QPSK	36	18	21.94	0-1	1
	1732.5	20175	15	QPSK	36	37	22.00	0-1	1
	1732.5	20175	15	QPSK	75	0	21.87	0-1	1
	1732.5	20175	15	16QAM	1	0	22.22	0-1	1
	1732.5	20175	15	16QAM	1	36	22.36	0-1	1
	1732.5	20175	15	16QAM	1	74	22.25	0-1	1
	1732.5	20175	15	16QAM	36	0	20.82	0-2	2
	1732.5	20175	15	16QAM	36	18	20.83	0-2	2
	1732.5	20175	15	16QAM	36	37	20.89	0-2	2
	1732.5	20175	15	16QAM	75	0	20.85	0-2	2
High	1747.5	20325	15	QPSK	1	0	23.29	0	0
	1747.5	20325	15	QPSK	1	36	23.19	0	0
	1747.5	20325	15	QPSK	1	74	23.22	0	0
	1747.5	20325	15	QPSK	36	0	21.95	0-1	1
	1747.5	20325	15	QPSK	36	18	21.92	0-1	1
	1747.5	20325	15	QPSK	36	37	21.90	0-1	1
	1747.5	20325	15	QPSK	75	0	21.83	0-1	1
	1747.5	20325	15	16QAM	1	0	22.04	0-1	1
	1747.5	20325	15	16QAM	1	36	22.10	0-1	1
	1747.5	20325	15	16QAM	1	74	22.26	0-1	1
	1747.5	20325	15	16QAM	36	0	20.86	0-2	2
	1747.5	20325	15	16QAM	36	18	20.83	0-2	2
	1747.5	20325	15	16QAM	36	37	21.10	0-2	2
	1747.5	20325	15	16QAM	75	0	20.76	0-2	2

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Table 8-21
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	23.33	0	0
	1715	20000	10	QPSK	1	25	23.38	0	0
	1715	20000	10	QPSK	1	49	23.48	0	0
	1715	20000	10	QPSK	25	0	22.08	0-1	1
	1715	20000	10	QPSK	25	12	22.07	0-1	1
	1715	20000	10	QPSK	25	25	22.03	0-1	1
	1715	20000	10	QPSK	50	0	21.96	0-1	1
	1715	20000	10	16QAM	1	0	22.19	0-1	1
	1715	20000	10	16QAM	1	25	22.00	0-1	1
	1715	20000	10	16QAM	1	49	22.21	0-1	1
	1715	20000	10	16QAM	25	0	21.03	0-2	2
	1715	20000	10	16QAM	25	12	21.00	0-2	2
	1715	20000	10	16QAM	25	25	20.95	0-2	2
	1715	20000	10	16QAM	50	0	21.11	0-2	2
Mid	1732.5	20175	10	QPSK	1	0	22.95	0	0
	1732.5	20175	10	QPSK	1	25	23.20	0	0
	1732.5	20175	10	QPSK	1	49	23.11	0	0
	1732.5	20175	10	QPSK	25	0	21.91	0-1	1
	1732.5	20175	10	QPSK	25	12	21.88	0-1	1
	1732.5	20175	10	QPSK	25	25	22.04	0-1	1
	1732.5	20175	10	QPSK	50	0	21.90	0-1	1
	1732.5	20175	10	16QAM	1	0	22.22	0-1	1
	1732.5	20175	10	16QAM	1	25	22.33	0-1	1
	1732.5	20175	10	16QAM	1	49	22.21	0-1	1
	1732.5	20175	10	16QAM	25	0	20.85	0-2	2
	1732.5	20175	10	16QAM	25	12	20.83	0-2	2
	1732.5	20175	10	16QAM	25	25	20.86	0-2	2
	1732.5	20175	10	16QAM	50	0	20.83	0-2	2
High	1750	20350	10	QPSK	1	0	23.30	0	0
	1750	20350	10	QPSK	1	25	23.20	0	0
	1750	20350	10	QPSK	1	49	23.19	0	0
	1750	20350	10	QPSK	25	0	21.93	0-1	1
	1750	20350	10	QPSK	25	12	21.95	0-1	1
	1750	20350	10	QPSK	25	25	21.90	0-1	1
	1750	20350	10	QPSK	50	0	21.81	0-1	1
	1750	20350	10	16QAM	1	0	22.08	0-1	1
	1750	20350	10	16QAM	1	25	22.07	0-1	1
	1750	20350	10	16QAM	1	49	22.29	0-1	1
	1750	20350	10	16QAM	25	0	20.89	0-2	2
	1750	20350	10	16QAM	25	12	20.84	0-2	2
	1750	20350	10	16QAM	25	25	21.08	0-2	2
	1750	20350	10	16QAM	50	0	20.72	0-2	2

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Table 8-22
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	23.30	0	0
	1712.5	19975	5	QPSK	1	12	23.36	0	0
	1712.5	19975	5	QPSK	1	24	23.40	0	0
	1712.5	19975	5	QPSK	12	0	22.10	0-1	1
	1712.5	19975	5	QPSK	12	6	22.04	0-1	1
	1712.5	19975	5	QPSK	12	13	22.05	0-1	1
	1712.5	19975	5	QPSK	25	0	21.96	0-1	1
	1712.5	19975	5	16-QAM	1	0	22.17	0-1	1
	1712.5	19975	5	16-QAM	1	12	21.98	0-1	1
	1712.5	19975	5	16-QAM	1	24	22.21	0-1	1
	1712.5	19975	5	16-QAM	12	0	21.03	0-2	2
	1712.5	19975	5	16-QAM	12	6	20.96	0-2	2
	1712.5	19975	5	16-QAM	12	13	20.99	0-2	2
	1712.5	19975	5	16-QAM	25	0	21.11	0-2	2
Mid	1732.5	20175	5	QPSK	1	0	22.99	0	0
	1732.5	20175	5	QPSK	1	12	23.17	0	0
	1732.5	20175	5	QPSK	1	24	23.09	0	0
	1732.5	20175	5	QPSK	12	0	21.89	0-1	1
	1732.5	20175	5	QPSK	12	6	21.93	0-1	1
	1732.5	20175	5	QPSK	12	13	22.03	0-1	1
	1732.5	20175	5	QPSK	25	0	21.90	0-1	1
	1732.5	20175	5	16-QAM	1	0	22.21	0-1	1
	1732.5	20175	5	16-QAM	1	12	22.29	0-1	1
	1732.5	20175	5	16-QAM	1	24	22.25	0-1	1
	1732.5	20175	5	16-QAM	12	0	20.89	0-2	2
	1732.5	20175	5	16-QAM	12	6	20.84	0-2	2
	1732.5	20175	5	16-QAM	12	13	20.85	0-2	2
	1732.5	20175	5	16-QAM	25	0	20.81	0-2	2
High	1752.5	20375	5	QPSK	1	0	23.32	0	0
	1752.5	20375	5	QPSK	1	12	23.24	0	0
	1752.5	20375	5	QPSK	1	24	23.18	0	0
	1752.5	20375	5	QPSK	12	0	21.91	0-1	1
	1752.5	20375	5	QPSK	12	6	21.92	0-1	1
	1752.5	20375	5	QPSK	12	13	21.88	0-1	1
	1752.5	20375	5	QPSK	25	0	21.81	0-1	1
	1752.5	20375	5	16-QAM	1	0	22.09	0-1	1
	1752.5	20375	5	16-QAM	1	12	22.10	0-1	1
	1752.5	20375	5	16-QAM	1	24	22.27	0-1	1
	1752.5	20375	5	16-QAM	12	0	20.93	0-2	2
	1752.5	20375	5	16-QAM	12	6	20.80	0-2	2
	1752.5	20375	5	16-QAM	12	13	21.06	0-2	2
	1752.5	20375	5	16-QAM	25	0	20.76	0-2	2

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Table 8-23
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	23.33	0	0
	1711.5	19965	3	QPSK	1	7	23.39	0	0
	1711.5	19965	3	QPSK	1	14	23.40	0	0
	1711.5	19965	3	QPSK	8	0	22.08	0-1	1
	1711.5	19965	3	QPSK	8	4	22.06	0-1	1
	1711.5	19965	3	QPSK	8	7	22.05	0-1	1
	1711.5	19965	3	QPSK	15	0	21.98	0-1	1
	1711.5	19965	3	16-QAM	1	0	22.19	0-1	1
	1711.5	19965	3	16-QAM	1	7	22.01	0-1	1
	1711.5	19965	3	16-QAM	1	14	22.21	0-1	1
	1711.5	19965	3	16-QAM	8	0	21.07	0-2	2
	1711.5	19965	3	16-QAM	8	4	20.97	0-2	2
	1711.5	19965	3	16-QAM	8	7	21.01	0-2	2
	1711.5	19965	3	16-QAM	15	0	21.02	0-2	2
Mid	1732.5	20175	3	QPSK	1	0	23.01	0	0
	1732.5	20175	3	QPSK	1	7	23.20	0	0
	1732.5	20175	3	QPSK	1	14	23.13	0	0
	1732.5	20175	3	QPSK	8	0	21.92	0-1	1
	1732.5	20175	3	QPSK	8	4	21.91	0-1	1
	1732.5	20175	3	QPSK	8	7	22.06	0-1	1
	1732.5	20175	3	QPSK	15	0	21.82	0-1	1
	1732.5	20175	3	16-QAM	1	0	22.25	0-1	1
	1732.5	20175	3	16-QAM	1	7	22.30	0-1	1
	1732.5	20175	3	16-QAM	1	14	22.25	0-1	1
	1732.5	20175	3	16-QAM	8	0	20.88	0-2	2
	1732.5	20175	3	16-QAM	8	4	20.85	0-2	2
	1732.5	20175	3	16-QAM	8	7	20.86	0-2	2
	1732.5	20175	3	16-QAM	15	0	20.83	0-2	2
High	1753.5	20385	3	QPSK	1	0	23.35	0	0
	1753.5	20385	3	QPSK	1	7	23.28	0	0
	1753.5	20385	3	QPSK	1	14	23.20	0	0
	1753.5	20385	3	QPSK	8	0	21.88	0-1	1
	1753.5	20385	3	QPSK	8	4	21.95	0-1	1
	1753.5	20385	3	QPSK	8	7	21.91	0-1	1
	1753.5	20385	3	QPSK	15	0	21.79	0-1	1
	1753.5	20385	3	16-QAM	1	0	22.05	0-1	1
	1753.5	20385	3	16-QAM	1	7	22.10	0-1	1
	1753.5	20385	3	16-QAM	1	14	22.25	0-1	1
	1753.5	20385	3	16-QAM	8	0	20.91	0-2	2
	1753.5	20385	3	16-QAM	8	4	20.77	0-2	2
	1753.5	20385	3	16-QAM	8	7	21.03	0-2	2
	1753.5	20385	3	16-QAM	15	0	20.78	0-2	2

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Table 8-24
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	23.33	0	0
	1710.7	19957	1.4	QPSK	1	2	23.43	0	0
	1710.7	19957	1.4	QPSK	1	5	23.42	0	0
	1710.7	19957	1.4	QPSK	3	0	23.12	0	0
	1710.7	19957	1.4	QPSK	3	2	23.04	0	0
	1710.7	19957	1.4	QPSK	3	3	23.07	0	0
	1710.7	19957	1.4	QPSK	6	0	22.01	0-1	1
	1710.7	19957	1.4	16-QAM	1	0	22.23	0-1	1
	1710.7	19957	1.4	16-QAM	1	2	22.04	0-1	1
	1710.7	19957	1.4	16-QAM	1	5	22.23	0-1	1
	1710.7	19957	1.4	16-QAM	3	0	22.05	0-1	1
	1710.7	19957	1.4	16-QAM	3	2	21.95	0-1	1
	1710.7	19957	1.4	16-QAM	3	3	21.99	0-1	1
Mid	1710.7	19957	1.4	16-QAM	6	0	21.00	0-2	2
	1732.5	20175	1.4	QPSK	1	0	22.98	0	0
	1732.5	20175	1.4	QPSK	1	2	23.17	0	0
	1732.5	20175	1.4	QPSK	1	5	23.16	0	0
	1732.5	20175	1.4	QPSK	3	0	22.91	0	0
	1732.5	20175	1.4	QPSK	3	2	22.99	0	0
	1732.5	20175	1.4	QPSK	3	3	23.06	0	0
	1732.5	20175	1.4	QPSK	6	0	21.92	0-1	1
	1732.5	20175	1.4	16-QAM	1	0	22.26	0-1	1
	1732.5	20175	1.4	16-QAM	1	2	22.31	0-1	1
	1732.5	20175	1.4	16-QAM	1	5	22.26	0-1	1
	1732.5	20175	1.4	16-QAM	3	0	21.90	0-1	1
	1732.5	20175	1.4	16-QAM	3	2	21.83	0-1	1
High	1732.5	20175	1.4	16-QAM	3	3	21.87	0-1	1
	1732.5	20175	1.4	16-QAM	6	0	20.85	0-2	2
	1754.3	20393	1.4	QPSK	1	0	23.36	0	0
	1754.3	20393	1.4	QPSK	1	2	23.29	0	0
	1754.3	20393	1.4	QPSK	1	5	23.16	0	0
	1754.3	20393	1.4	QPSK	3	0	22.90	0	0
	1754.3	20393	1.4	QPSK	3	2	22.94	0	0
	1754.3	20393	1.4	QPSK	3	3	22.88	0	0
	1754.3	20393	1.4	QPSK	6	0	21.76	0-1	1
	1754.3	20393	1.4	16-QAM	1	0	22.05	0-1	1
	1754.3	20393	1.4	16-QAM	1	2	22.06	0-1	1
	1754.3	20393	1.4	16-QAM	1	5	22.28	0-1	1
	1754.3	20393	1.4	16-QAM	3	0	21.87	0-1	1
	1754.3	20393	1.4	16-QAM	3	2	21.81	0-1	1
	1754.3	20393	1.4	16-QAM	3	3	22.01	0-1	1
	1754.3	20393	1.4	16-QAM	6	0	20.76	0-2	2

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Table 8-25
LTE Band 4 (AWS) Conducted Powers - 20 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	14.39	0	0
	1732.5	20175	20	QPSK	1	50	14.29	0	0
	1732.5	20175	20	QPSK	1	99	14.34	0	0
	1732.5	20175	20	QPSK	50	0	13.04	0-1	1
	1732.5	20175	20	QPSK	50	25	13.08	0-1	1
	1732.5	20175	20	QPSK	50	50	13.07	0-1	1
	1732.5	20175	20	QPSK	100	0	13.06	0-1	1
	1732.5	20175	20	16QAM	1	0	13.00	0-1	1
	1732.5	20175	20	16QAM	1	50	13.12	0-1	1
	1732.5	20175	20	16QAM	1	99	13.19	0-1	1
	1732.5	20175	20	16QAM	50	0	12.12	0-2	2
	1732.5	20175	20	16QAM	50	25	12.17	0-2	2
	1732.5	20175	20	16QAM	50	50	12.06	0-2	2
	1732.5	20175	20	16QAM	100	0	12.05	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.

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Table 8-26
LTE Band 4 (AWS) Conducted Powers - 15 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	14.43	0	0
	1717.5	20025	15	QPSK	1	36	14.46	0	0
	1717.5	20025	15	QPSK	1	74	14.44	0	0
	1717.5	20025	15	QPSK	36	0	13.27	0-1	1
	1717.5	20025	15	QPSK	36	18	13.34	0-1	1
	1717.5	20025	15	QPSK	36	37	13.31	0-1	1
	1717.5	20025	15	QPSK	75	0	13.27	0-1	1
	1717.5	20025	15	16QAM	1	0	13.44	0-1	1
	1717.5	20025	15	16QAM	1	36	13.50	0-1	1
	1717.5	20025	15	16QAM	1	74	13.42	0-1	1
	1717.5	20025	15	16QAM	36	0	12.29	0-2	2
	1717.5	20025	15	16QAM	36	18	12.35	0-2	2
	1717.5	20025	15	16QAM	36	37	12.35	0-2	2
	1717.5	20025	15	16QAM	75	0	12.35	0-2	2
Mid	1732.5	20175	15	QPSK	1	0	14.29	0	0
	1732.5	20175	15	QPSK	1	36	14.45	0	0
	1732.5	20175	15	QPSK	1	74	14.31	0	0
	1732.5	20175	15	QPSK	36	0	13.29	0-1	1
	1732.5	20175	15	QPSK	36	18	13.28	0-1	1
	1732.5	20175	15	QPSK	36	37	13.34	0-1	1
	1732.5	20175	15	QPSK	75	0	13.27	0-1	1
	1732.5	20175	15	16QAM	1	0	13.48	0-1	1
	1732.5	20175	15	16QAM	1	36	13.43	0-1	1
	1732.5	20175	15	16QAM	1	74	13.50	0-1	1
	1732.5	20175	15	16QAM	36	0	12.30	0-2	2
	1732.5	20175	15	16QAM	36	18	12.31	0-2	2
	1732.5	20175	15	16QAM	36	37	12.36	0-2	2
	1732.5	20175	15	16QAM	75	0	12.28	0-2	2
High	1747.5	20325	15	QPSK	1	0	14.15	0	0
	1747.5	20325	15	QPSK	1	36	14.19	0	0
	1747.5	20325	15	QPSK	1	74	14.28	0	0
	1747.5	20325	15	QPSK	36	0	13.07	0-1	1
	1747.5	20325	15	QPSK	36	18	13.03	0-1	1
	1747.5	20325	15	QPSK	36	37	13.04	0-1	1
	1747.5	20325	15	QPSK	75	0	13.01	0-1	1
	1747.5	20325	15	16QAM	1	0	13.24	0-1	1
	1747.5	20325	15	16QAM	1	36	13.33	0-1	1
	1747.5	20325	15	16QAM	1	74	13.34	0-1	1
	1747.5	20325	15	16QAM	36	0	12.09	0-2	2
	1747.5	20325	15	16QAM	36	18	12.06	0-2	2
	1747.5	20325	15	16QAM	36	37	12.07	0-2	2
	1747.5	20325	15	16QAM	75	0	12.09	0-2	2

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Table 8-27
LTE Band 4 (AWS) Conducted Powers - 10 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	14.43	0	0
	1715	20000	10	QPSK	1	25	14.30	0	0
	1715	20000	10	QPSK	1	49	14.33	0	0
	1715	20000	10	QPSK	25	0	13.38	0-1	1
	1715	20000	10	QPSK	25	12	13.44	0-1	1
	1715	20000	10	QPSK	25	25	13.39	0-1	1
	1715	20000	10	QPSK	50	0	13.47	0-1	1
	1715	20000	10	16QAM	1	0	13.50	0-1	1
	1715	20000	10	16QAM	1	25	13.42	0-1	1
	1715	20000	10	16QAM	1	49	13.44	0-1	1
	1715	20000	10	16QAM	25	0	12.47	0-2	2
	1715	20000	10	16QAM	25	12	12.46	0-2	2
	1715	20000	10	16QAM	25	25	12.50	0-2	2
	1715	20000	10	16QAM	50	0	12.48	0-2	2
Mid	1732.5	20175	10	QPSK	1	0	14.37	0	0
	1732.5	20175	10	QPSK	1	25	14.43	0	0
	1732.5	20175	10	QPSK	1	49	14.00	0	0
	1732.5	20175	10	QPSK	25	0	13.24	0-1	1
	1732.5	20175	10	QPSK	25	12	13.31	0-1	1
	1732.5	20175	10	QPSK	25	25	13.25	0-1	1
	1732.5	20175	10	QPSK	50	0	13.28	0-1	1
	1732.5	20175	10	16QAM	1	0	13.50	0-1	1
	1732.5	20175	10	16QAM	1	25	13.41	0-1	1
	1732.5	20175	10	16QAM	1	49	13.28	0-1	1
	1732.5	20175	10	16QAM	25	0	12.27	0-2	2
	1732.5	20175	10	16QAM	25	12	12.34	0-2	2
	1732.5	20175	10	16QAM	25	25	12.32	0-2	2
	1732.5	20175	10	16QAM	50	0	12.27	0-2	2
High	1750	20350	10	QPSK	1	0	14.20	0	0
	1750	20350	10	QPSK	1	25	14.21	0	0
	1750	20350	10	QPSK	1	49	14.33	0	0
	1750	20350	10	QPSK	25	0	13.11	0-1	1
	1750	20350	10	QPSK	25	12	13.10	0-1	1
	1750	20350	10	QPSK	25	25	13.12	0-1	1
	1750	20350	10	QPSK	50	0	13.14	0-1	1
	1750	20350	10	16QAM	1	0	13.47	0-1	1
	1750	20350	10	16QAM	1	25	13.42	0-1	1
	1750	20350	10	16QAM	1	49	13.38	0-1	1
	1750	20350	10	16QAM	25	0	12.17	0-2	2
	1750	20350	10	16QAM	25	12	12.20	0-2	2
	1750	20350	10	16QAM	25	25	12.16	0-2	2
	1750	20350	10	16QAM	50	0	12.14	0-2	2

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Table 8-28
LTE Band 4 (AWS) Conducted Powers - 5 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	14.46	0	0
	1712.5	19975	5	QPSK	1	12	14.33	0	0
	1712.5	19975	5	QPSK	1	24	14.36	0	0
	1712.5	19975	5	QPSK	12	0	13.41	0-1	1
	1712.5	19975	5	QPSK	12	6	13.47	0-1	1
	1712.5	19975	5	QPSK	12	13	13.42	0-1	1
	1712.5	19975	5	QPSK	25	0	13.44	0-1	1
	1712.5	19975	5	16-QAM	1	0	13.47	0-1	1
	1712.5	19975	5	16-QAM	1	12	13.45	0-1	1
	1712.5	19975	5	16-QAM	1	24	13.47	0-1	1
	1712.5	19975	5	16-QAM	12	0	12.29	0-2	2
	1712.5	19975	5	16-QAM	12	6	12.43	0-2	2
	1712.5	19975	5	16-QAM	12	13	12.24	0-2	2
Mid	1732.5	20175	5	QPSK	1	0	14.40	0	0
	1732.5	20175	5	QPSK	1	12	14.31	0	0
	1732.5	20175	5	QPSK	1	24	14.03	0	0
	1732.5	20175	5	QPSK	12	0	13.27	0-1	1
	1732.5	20175	5	QPSK	12	6	13.34	0-1	1
	1732.5	20175	5	QPSK	12	13	13.28	0-1	1
	1732.5	20175	5	QPSK	25	0	13.31	0-1	1
	1732.5	20175	5	16-QAM	1	0	13.24	0-1	1
	1732.5	20175	5	16-QAM	1	12	13.20	0-1	1
	1732.5	20175	5	16-QAM	1	24	13.42	0-1	1
	1732.5	20175	5	16-QAM	12	0	12.30	0-2	2
	1732.5	20175	5	16-QAM	12	6	12.37	0-2	2
	1732.5	20175	5	16-QAM	12	13	12.35	0-2	2
	1732.5	20175	5	16-QAM	25	0	12.30	0-2	2
High	1752.5	20375	5	QPSK	1	0	14.23	0	0
	1752.5	20375	5	QPSK	1	12	14.24	0	0
	1752.5	20375	5	QPSK	1	24	14.36	0	0
	1752.5	20375	5	QPSK	12	0	13.14	0-1	1
	1752.5	20375	5	QPSK	12	6	13.13	0-1	1
	1752.5	20375	5	QPSK	12	13	13.15	0-1	1
	1752.5	20375	5	QPSK	25	0	13.17	0-1	1
	1752.5	20375	5	16-QAM	1	0	13.50	0-1	1
	1752.5	20375	5	16-QAM	1	12	13.45	0-1	1
	1752.5	20375	5	16-QAM	1	24	13.41	0-1	1
	1752.5	20375	5	16-QAM	12	0	12.20	0-2	2
	1752.5	20375	5	16-QAM	12	6	12.23	0-2	2
	1752.5	20375	5	16-QAM	12	13	12.19	0-2	2
	1752.5	20375	5	16-QAM	25	0	12.17	0-2	2

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Table 8-29
LTE Band 4 (AWS) Conducted Powers - 3 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	14.36	0	0
	1711.5	19965	3	QPSK	1	7	14.39	0	0
	1711.5	19965	3	QPSK	1	14	14.37	0	0
	1711.5	19965	3	QPSK	8	0	13.20	0-1	1
	1711.5	19965	3	QPSK	8	4	13.27	0-1	1
	1711.5	19965	3	QPSK	8	7	13.24	0-1	1
	1711.5	19965	3	QPSK	15	0	13.20	0-1	1
	1711.5	19965	3	16-QAM	1	0	13.37	0-1	1
	1711.5	19965	3	16-QAM	1	7	13.43	0-1	1
	1711.5	19965	3	16-QAM	1	14	13.35	0-1	1
	1711.5	19965	3	16-QAM	8	0	12.22	0-2	2
	1711.5	19965	3	16-QAM	8	4	12.32	0-2	2
	1711.5	19965	3	16-QAM	8	7	12.28	0-2	2
Mid	1732.5	20175	3	QPSK	1	0	14.22	0	0
	1732.5	20175	3	QPSK	1	7	14.38	0	0
	1732.5	20175	3	QPSK	1	14	14.24	0	0
	1732.5	20175	3	QPSK	8	0	13.22	0-1	1
	1732.5	20175	3	QPSK	8	4	13.21	0-1	1
	1732.5	20175	3	QPSK	8	7	13.27	0-1	1
	1732.5	20175	3	QPSK	15	0	13.20	0-1	1
	1732.5	20175	3	16-QAM	1	0	13.41	0-1	1
	1732.5	20175	3	16-QAM	1	7	13.36	0-1	1
	1732.5	20175	3	16-QAM	1	14	13.43	0-1	1
	1732.5	20175	3	16-QAM	8	0	12.23	0-2	2
	1732.5	20175	3	16-QAM	8	4	12.24	0-2	2
	1732.5	20175	3	16-QAM	8	7	12.29	0-2	2
	1732.5	20175	3	16-QAM	15	0	12.31	0-2	2
High	1753.5	20385	3	QPSK	1	0	14.08	0	0
	1753.5	20385	3	QPSK	1	7	14.12	0	0
	1753.5	20385	3	QPSK	1	14	14.29	0	0
	1753.5	20385	3	QPSK	8	0	13.22	0-1	1
	1753.5	20385	3	QPSK	8	4	13.31	0-1	1
	1753.5	20385	3	QPSK	8	7	13.22	0-1	1
	1753.5	20385	3	QPSK	15	0	13.41	0-1	1
	1753.5	20385	3	16-QAM	1	0	13.17	0-1	1
	1753.5	20385	3	16-QAM	1	7	13.26	0-1	1
	1753.5	20385	3	16-QAM	1	14	13.27	0-1	1
	1753.5	20385	3	16-QAM	8	0	12.02	0-2	2
	1753.5	20385	3	16-QAM	8	4	12.34	0-2	2
	1753.5	20385	3	16-QAM	8	7	12.33	0-2	2
	1753.5	20385	3	16-QAM	15	0	12.02	0-2	2

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Table 8-30
LTE Band 4 (AWS) Conducted Powers -1.4 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	14.35	0	0
	1710.7	19957	1.4	QPSK	1	2	14.22	0	0
	1710.7	19957	1.4	QPSK	1	5	14.25	0	0
	1710.7	19957	1.4	QPSK	3	0	14.22	0	0
	1710.7	19957	1.4	QPSK	3	2	14.03	0	0
	1710.7	19957	1.4	QPSK	3	3	14.11	0	0
	1710.7	19957	1.4	QPSK	6	0	13.39	0-1	1
	1710.7	19957	1.4	16-QAM	1	0	13.42	0-1	1
	1710.7	19957	1.4	16-QAM	1	2	13.34	0-1	1
	1710.7	19957	1.4	16-QAM	1	5	13.36	0-1	1
	1710.7	19957	1.4	16-QAM	3	0	13.33	0-1	1
	1710.7	19957	1.4	16-QAM	3	2	13.18	0-1	1
	1710.7	19957	1.4	16-QAM	3	3	13.20	0-1	1
	1710.7	19957	1.4	16-QAM	6	0	12.21	0-2	2
Mid	1732.5	20175	1.4	QPSK	1	0	14.29	0	0
	1732.5	20175	1.4	QPSK	1	2	14.35	0	0
	1732.5	20175	1.4	QPSK	1	5	14.03	0	0
	1732.5	20175	1.4	QPSK	3	0	14.31	0	0
	1732.5	20175	1.4	QPSK	3	2	14.12	0	0
	1732.5	20175	1.4	QPSK	3	3	14.11	0	0
	1732.5	20175	1.4	QPSK	6	0	13.20	0-1	1
	1732.5	20175	1.4	16-QAM	1	0	13.42	0-1	1
	1732.5	20175	1.4	16-QAM	1	2	13.33	0-1	1
	1732.5	20175	1.4	16-QAM	1	5	13.20	0-1	1
	1732.5	20175	1.4	16-QAM	3	0	13.03	0-1	1
	1732.5	20175	1.4	16-QAM	3	2	13.15	0-1	1
	1732.5	20175	1.4	16-QAM	3	3	13.48	0-1	1
	1732.5	20175	1.4	16-QAM	6	0	12.19	0-2	2
High	1754.3	20393	1.4	QPSK	1	0	14.12	0	0
	1754.3	20393	1.4	QPSK	1	2	14.13	0	0
	1754.3	20393	1.4	QPSK	1	5	14.25	0	0
	1754.3	20393	1.4	QPSK	3	0	14.03	0	0
	1754.3	20393	1.4	QPSK	3	2	14.28	0	0
	1754.3	20393	1.4	QPSK	3	3	14.31	0	0
	1754.3	20393	1.4	QPSK	6	0	13.06	0-1	1
	1754.3	20393	1.4	16-QAM	1	0	13.39	0-1	1
	1754.3	20393	1.4	16-QAM	1	2	13.34	0-1	1
	1754.3	20393	1.4	16-QAM	1	5	13.30	0-1	1
	1754.3	20393	1.4	16-QAM	3	0	13.01	0-1	1
	1754.3	20393	1.4	16-QAM	3	2	13.16	0-1	1
	1754.3	20393	1.4	16-QAM	3	3	13.11	0-1	1
	1754.3	20393	1.4	16-QAM	6	0	12.06	0-2	2

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LTE Band 2 (PCS)

Table 8-31
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	23.13	0	0
	1860	18700	20	QPSK	1	50	23.27	0	0
	1860	18700	20	QPSK	1	99	23.36	0	0
	1860	18700	20	QPSK	50	0	22.00	0-1	1
	1860	18700	20	QPSK	50	25	22.16	0-1	1
	1860	18700	20	QPSK	50	50	22.19	0-1	1
	1860	18700	20	QPSK	100	0	22.09	0-1	1
	1860	18700	20	16QAM	1	0	22.35	0-1	1
	1860	18700	20	16QAM	1	50	22.33	0-1	1
	1860	18700	20	16QAM	1	99	22.45	0-1	1
	1860	18700	20	16QAM	50	0	21.14	0-2	2
	1860	18700	20	16QAM	50	25	21.08	0-2	2
	1860	18700	20	16QAM	50	50	21.09	0-2	2
	1860	18700	20	16QAM	100	0	20.99	0-2	2
Mid	1880.0	18900	20	QPSK	1	0	23.35	0	0
	1880.0	18900	20	QPSK	1	50	23.34	0	0
	1880.0	18900	20	QPSK	1	99	23.32	0	0
	1880.0	18900	20	QPSK	50	0	21.95	0-1	1
	1880.0	18900	20	QPSK	50	25	22.03	0-1	1
	1880.0	18900	20	QPSK	50	50	21.99	0-1	1
	1880.0	18900	20	QPSK	100	0	21.97	0-1	1
	1880.0	18900	20	16QAM	1	0	22.50	0-1	1
	1880.0	18900	20	16QAM	1	50	22.40	0-1	1
	1880.0	18900	20	16QAM	1	99	22.49	0-1	1
	1880.0	18900	20	16QAM	50	0	20.99	0-2	2
	1880.0	18900	20	16QAM	50	25	21.04	0-2	2
	1880.0	18900	20	16QAM	50	50	21.03	0-2	2
	1880.0	18900	20	16QAM	100	0	20.91	0-2	2
High	1900	19100	20	QPSK	1	0	23.11	0	0
	1900	19100	20	QPSK	1	50	23.15	0	0
	1900	19100	20	QPSK	1	99	23.33	0	0
	1900	19100	20	QPSK	50	0	21.93	0-1	1
	1900	19100	20	QPSK	50	25	21.90	0-1	1
	1900	19100	20	QPSK	50	50	21.95	0-1	1
	1900	19100	20	QPSK	100	0	21.89	0-1	1
	1900	19100	20	16QAM	1	0	22.32	0-1	1
	1900	19100	20	16QAM	1	50	22.25	0-1	1
	1900	19100	20	16QAM	1	99	22.34	0-1	1
	1900	19100	20	16QAM	50	0	20.92	0-2	2
	1900	19100	20	16QAM	50	25	20.89	0-2	2
	1900	19100	20	16QAM	50	50	20.96	0-2	2
	1900	19100	20	16QAM	100	0	20.89	0-2	2

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Table 8-32
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	23.48	0	0
	1857.5	18675	15	QPSK	1	36	23.42	0	0
	1857.5	18675	15	QPSK	1	74	23.46	0	0
	1857.5	18675	15	QPSK	36	0	22.03	0-1	1
	1857.5	18675	15	QPSK	36	18	22.17	0-1	1
	1857.5	18675	15	QPSK	36	37	22.10	0-1	1
	1857.5	18675	15	QPSK	75	0	22.06	0-1	1
	1857.5	18675	15	16QAM	1	0	22.32	0-1	1
	1857.5	18675	15	16QAM	1	36	22.45	0-1	1
	1857.5	18675	15	16QAM	1	74	22.42	0-1	1
	1857.5	18675	15	16QAM	36	0	20.94	0-2	2
	1857.5	18675	15	16QAM	36	18	21.04	0-2	2
Mid	1857.5	18675	15	16QAM	36	37	21.08	0-2	2
	1857.5	18675	15	16QAM	75	0	21.06	0-2	2
	1880.0	18900	15	QPSK	1	0	23.25	0	0
	1880.0	18900	15	QPSK	1	36	23.29	0	0
	1880.0	18900	15	QPSK	1	74	23.27	0	0
	1880.0	18900	15	QPSK	36	0	22.05	0-1	1
	1880.0	18900	15	QPSK	36	18	22.09	0-1	1
	1880.0	18900	15	QPSK	36	37	22.11	0-1	1
	1880.0	18900	15	QPSK	75	0	22.01	0-1	1
	1880.0	18900	15	16QAM	1	0	22.45	0-1	1
	1880.0	18900	15	16QAM	1	36	22.40	0-1	1
	1880.0	18900	15	16QAM	1	74	22.38	0-1	1
High	1880.0	18900	15	16QAM	36	0	21.07	0-2	2
	1880.0	18900	15	16QAM	36	18	20.97	0-2	2
	1880.0	18900	15	16QAM	36	37	20.98	0-2	2
	1880.0	18900	15	16QAM	75	0	20.99	0-2	2
	1902.5	19125	15	QPSK	1	0	23.23	0	0
	1902.5	19125	15	QPSK	1	36	23.13	0	0
	1902.5	19125	15	QPSK	1	74	23.20	0	0
	1902.5	19125	15	QPSK	36	0	21.76	0-1	1
	1902.5	19125	15	QPSK	36	18	21.83	0-1	1
	1902.5	19125	15	QPSK	36	37	21.89	0-1	1
	1902.5	19125	15	QPSK	75	0	21.84	0-1	1
	1902.5	19125	15	16QAM	1	0	22.23	0-1	1
	1902.5	19125	15	16QAM	1	36	22.13	0-1	1
	1902.5	19125	15	16QAM	1	74	22.19	0-1	1
	1902.5	19125	15	16QAM	36	0	20.79	0-2	2
	1902.5	19125	15	16QAM	36	18	20.78	0-2	2
	1902.5	19125	15	16QAM	36	37	20.84	0-2	2
	1902.5	19125	15	16QAM	75	0	20.81	0-2	2

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Table 8-33
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	23.47	0	0
	1855	18650	10	QPSK	1	25	23.49	0	0
	1855	18650	10	QPSK	1	49	23.48	0	0
	1855	18650	10	QPSK	25	0	22.05	0-1	1
	1855	18650	10	QPSK	25	12	22.08	0-1	1
	1855	18650	10	QPSK	25	25	22.22	0-1	1
	1855	18650	10	QPSK	50	0	22.10	0-1	1
	1855	18650	10	16QAM	1	0	22.35	0-1	1
	1855	18650	10	16QAM	1	25	22.42	0-1	1
	1855	18650	10	16QAM	1	49	22.45	0-1	1
	1855	18650	10	16QAM	25	0	21.02	0-2	2
	1855	18650	10	16QAM	25	12	21.12	0-2	2
Mid	1855	18650	10	16QAM	25	25	21.15	0-2	2
	1855	18650	10	16QAM	50	0	21.13	0-2	2
	1880.0	18900	10	QPSK	1	0	23.21	0	0
	1880.0	18900	10	QPSK	1	25	23.29	0	0
	1880.0	18900	10	QPSK	1	49	23.26	0	0
	1880.0	18900	10	QPSK	25	0	21.87	0-1	1
	1880.0	18900	10	QPSK	25	12	21.96	0-1	1
	1880.0	18900	10	QPSK	25	25	21.93	0-1	1
	1880.0	18900	10	QPSK	50	0	21.90	0-1	1
	1880.0	18900	10	16QAM	1	0	22.13	0-1	1
	1880.0	18900	10	16QAM	1	25	22.15	0-1	1
	1880.0	18900	10	16QAM	1	49	22.26	0-1	1
High	1880.0	18900	10	16QAM	25	0	20.85	0-2	2
	1880.0	18900	10	16QAM	25	12	20.92	0-2	2
	1880.0	18900	10	16QAM	25	25	20.90	0-2	2
	1880.0	18900	10	16QAM	50	0	20.81	0-2	2
	1905	19150	10	QPSK	1	0	23.05	0	0
	1905	19150	10	QPSK	1	25	23.14	0	0
	1905	19150	10	QPSK	1	49	23.05	0	0
	1905	19150	10	QPSK	25	0	21.69	0-1	1
	1905	19150	10	QPSK	25	12	21.63	0-1	1
	1905	19150	10	QPSK	25	25	21.78	0-1	1
	1905	19150	10	QPSK	50	0	21.75	0-1	1
	1905	19150	10	16QAM	1	0	21.90	0-1	1
	1905	19150	10	16QAM	1	25	21.98	0-1	1
	1905	19150	10	16QAM	1	49	21.94	0-1	1
	1905	19150	10	16QAM	25	0	20.66	0-2	2
	1905	19150	10	16QAM	25	12	20.69	0-2	2
	1905	19150	10	16QAM	25	25	20.78	0-2	2
	1905	19150	10	16QAM	50	0	20.66	0-2	2

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Table 8-34
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	23.35	0	0
	1852.5	18625	5	QPSK	1	12	23.47	0	0
	1852.5	18625	5	QPSK	1	24	23.49	0	0
	1852.5	18625	5	QPSK	12	0	22.22	0-1	1
	1852.5	18625	5	QPSK	12	6	22.24	0-1	1
	1852.5	18625	5	QPSK	12	13	22.31	0-1	1
	1852.5	18625	5	QPSK	25	0	22.20	0-1	1
	1852.5	18625	5	16-QAM	1	0	22.45	0-1	1
	1852.5	18625	5	16-QAM	1	12	22.49	0-1	1
	1852.5	18625	5	16-QAM	1	24	22.48	0-1	1
	1852.5	18625	5	16-QAM	12	0	21.12	0-2	2
	1852.5	18625	5	16-QAM	12	6	21.23	0-2	2
Mid	1852.5	18625	5	16-QAM	12	13	21.26	0-2	2
	1852.5	18625	5	16-QAM	25	0	21.14	0-2	2
	1880.0	18900	5	QPSK	1	0	23.25	0	0
	1880.0	18900	5	QPSK	1	12	23.32	0	0
	1880.0	18900	5	QPSK	1	24	23.44	0	0
	1880.0	18900	5	QPSK	12	0	21.95	0-1	1
	1880.0	18900	5	QPSK	12	6	21.97	0-1	1
	1880.0	18900	5	QPSK	12	13	21.91	0-1	1
	1880.0	18900	5	QPSK	25	0	21.94	0-1	1
	1880.0	18900	5	16-QAM	1	0	22.22	0-1	1
	1880.0	18900	5	16-QAM	1	12	22.21	0-1	1
	1880.0	18900	5	16-QAM	1	24	22.23	0-1	1
High	1880.0	18900	5	16-QAM	12	0	20.87	0-2	2
	1880.0	18900	5	16-QAM	12	6	20.89	0-2	2
	1880.0	18900	5	16-QAM	12	13	20.94	0-2	2
	1880.0	18900	5	16-QAM	25	0	21.00	0-2	2
	1907.5	19175	5	QPSK	1	0	23.00	0	0
	1907.5	19175	5	QPSK	1	12	23.11	0	0
	1907.5	19175	5	QPSK	1	24	23.05	0	0
	1907.5	19175	5	QPSK	12	0	21.66	0-1	1
	1907.5	19175	5	QPSK	12	6	21.70	0-1	1
	1907.5	19175	5	QPSK	12	13	21.67	0-1	1
	1907.5	19175	5	QPSK	25	0	21.67	0-1	1
	1907.5	19175	5	16-QAM	1	0	21.69	0-1	1
	1907.5	19175	5	16-QAM	1	12	21.90	0-1	1
	1907.5	19175	5	16-QAM	1	24	21.85	0-1	1
	1907.5	19175	5	16-QAM	12	0	20.85	0-2	2
	1907.5	19175	5	16-QAM	12	6	20.78	0-2	2
	1907.5	19175	5	16-QAM	12	13	20.77	0-2	2
	1907.5	19175	5	16-QAM	25	0	20.66	0-2	2

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Table 8-35
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	23.49	0	0
	1851.5	18615	3	QPSK	1	7	23.48	0	0
	1851.5	18615	3	QPSK	1	14	23.48	0	0
	1851.5	18615	3	QPSK	8	0	22.20	0-1	1
	1851.5	18615	3	QPSK	8	4	22.25	0-1	1
	1851.5	18615	3	QPSK	8	7	22.33	0-1	1
	1851.5	18615	3	QPSK	15	0	22.25	0-1	1
	1851.5	18615	3	16-QAM	1	0	22.30	0-1	1
	1851.5	18615	3	16-QAM	1	7	22.29	0-1	1
	1851.5	18615	3	16-QAM	1	14	22.36	0-1	1
	1851.5	18615	3	16-QAM	8	0	21.22	0-2	2
	1851.5	18615	3	16-QAM	8	4	21.29	0-2	2
	1851.5	18615	3	16-QAM	8	7	21.30	0-2	2
	1851.5	18615	3	16-QAM	15	0	21.33	0-2	2
Mid	1880.0	18900	3	QPSK	1	0	23.30	0	0
	1880.0	18900	3	QPSK	1	7	23.34	0	0
	1880.0	18900	3	QPSK	1	14	23.26	0	0
	1880.0	18900	3	QPSK	8	0	21.96	0-1	1
	1880.0	18900	3	QPSK	8	4	21.95	0-1	1
	1880.0	18900	3	QPSK	8	7	22.02	0-1	1
	1880.0	18900	3	QPSK	15	0	21.95	0-1	1
	1880.0	18900	3	16-QAM	1	0	22.20	0-1	1
	1880.0	18900	3	16-QAM	1	7	22.13	0-1	1
	1880.0	18900	3	16-QAM	1	14	22.19	0-1	1
	1880.0	18900	3	16-QAM	8	0	20.81	0-2	2
	1880.0	18900	3	16-QAM	8	4	20.84	0-2	2
	1880.0	18900	3	16-QAM	8	7	20.88	0-2	2
	1880.0	18900	3	16-QAM	15	0	20.81	0-2	2
High	1908.5	19185	3	QPSK	1	0	23.13	0	0
	1908.5	19185	3	QPSK	1	7	23.23	0	0
	1908.5	19185	3	QPSK	1	14	23.18	0	0
	1908.5	19185	3	QPSK	8	0	21.80	0-1	1
	1908.5	19185	3	QPSK	8	4	21.84	0-1	1
	1908.5	19185	3	QPSK	8	7	21.67	0-1	1
	1908.5	19185	3	QPSK	15	0	21.91	0-1	1
	1908.5	19185	3	16-QAM	1	0	22.05	0-1	1
	1908.5	19185	3	16-QAM	1	7	22.09	0-1	1
	1908.5	19185	3	16-QAM	1	14	22.00	0-1	1
	1908.5	19185	3	16-QAM	8	0	20.71	0-2	2
	1908.5	19185	3	16-QAM	8	4	20.74	0-2	2
	1908.5	19185	3	16-QAM	8	7	20.65	0-2	2
	1908.5	19185	3	16-QAM	15	0	20.69	0-2	2

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Table 8-36
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	23.48	0	0
	1850.7	18607	1.4	QPSK	1	2	23.49	0	0
	1850.7	18607	1.4	QPSK	1	5	23.46	0	0
	1850.7	18607	1.4	QPSK	3	0	23.41	0	0
	1850.7	18607	1.4	QPSK	3	2	23.43	0	0
	1850.7	18607	1.4	QPSK	3	3	23.46	0	0
	1850.7	18607	1.4	QPSK	6	0	22.39	0-1	1
	1850.7	18607	1.4	16-QAM	1	0	22.40	0-1	1
	1850.7	18607	1.4	16-QAM	1	2	22.43	0-1	1
	1850.7	18607	1.4	16-QAM	1	5	22.48	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	22.43	0-1	1
	1850.7	18607	1.4	16-QAM	3	3	22.47	0-1	1
Mid	1850.7	18607	1.4	16-QAM	6	0	21.16	0-2	2
	1880.0	18900	1.4	QPSK	1	0	23.33	0	0
	1880.0	18900	1.4	QPSK	1	2	23.42	0	0
	1880.0	18900	1.4	QPSK	1	5	23.39	0	0
	1880.0	18900	1.4	QPSK	3	0	23.07	0	0
	1880.0	18900	1.4	QPSK	3	2	23.13	0	0
	1880.0	18900	1.4	QPSK	3	3	23.18	0	0
	1880.0	18900	1.4	QPSK	6	0	21.86	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	22.39	0-1	1
	1880.0	18900	1.4	16-QAM	1	5	22.37	0-1	1
	1880.0	18900	1.4	16-QAM	3	0	21.94	0-1	1
	1880.0	18900	1.4	16-QAM	3	2	21.97	0-1	1
High	1880.0	18900	1.4	16-QAM	3	3	22.00	0-1	1
	1880.0	18900	1.4	16-QAM	6	0	20.88	0-2	2
	1909.3	19193	1.4	QPSK	1	0	23.18	0	0
	1909.3	19193	1.4	QPSK	1	2	23.14	0	0
	1909.3	19193	1.4	QPSK	1	5	23.20	0	0
	1909.3	19193	1.4	QPSK	3	0	23.03	0	0
	1909.3	19193	1.4	QPSK	3	2	23.02	0	0
	1909.3	19193	1.4	QPSK	3	3	23.04	0	0
	1909.3	19193	1.4	QPSK	6	0	21.87	0-1	1
	1909.3	19193	1.4	16-QAM	1	0	22.23	0-1	1
	1909.3	19193	1.4	16-QAM	1	2	22.46	0-1	1
	1909.3	19193	1.4	16-QAM	1	5	22.36	0-1	1
	1909.3	19193	1.4	16-QAM	3	0	22.02	0-1	1
	1909.3	19193	1.4	16-QAM	3	2	22.00	0-1	1
	1909.3	19193	1.4	16-QAM	3	3	21.93	0-1	1
	1909.3	19193	1.4	16-QAM	6	0	20.81	0-2	2

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Table 8-37
LTE Band 2 (PCS) Conducted Powers - 20 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	15.04	0	0
	1860	18700	20	QPSK	1	50	14.99	0	0
	1860	18700	20	QPSK	1	99	15.07	0	0
	1860	18700	20	QPSK	50	0	13.76	0-1	1
	1860	18700	20	QPSK	50	25	13.89	0-1	1
	1860	18700	20	QPSK	50	50	13.92	0-1	1
	1860	18700	20	QPSK	100	0	13.80	0-1	1
	1860	18700	20	16QAM	1	0	13.84	0-1	1
	1860	18700	20	16QAM	1	50	13.90	0-1	1
	1860	18700	20	16QAM	1	99	14.20	0-1	1
	1860	18700	20	16QAM	50	0	12.82	0-2	2
	1860	18700	20	16QAM	50	25	12.90	0-2	2
	1860	18700	20	16QAM	50	50	12.93	0-2	2
Mid	1880.0	18900	20	QPSK	1	0	15.46	0	0
	1880.0	18900	20	QPSK	1	50	15.45	0	0
	1880.0	18900	20	QPSK	1	99	15.43	0	0
	1880.0	18900	20	QPSK	50	0	14.21	0-1	1
	1880.0	18900	20	QPSK	50	25	14.25	0-1	1
	1880.0	18900	20	QPSK	50	50	14.25	0-1	1
	1880.0	18900	20	QPSK	100	0	14.15	0-1	1
	1880.0	18900	20	16QAM	1	0	14.09	0-1	1
	1880.0	18900	20	16QAM	1	50	14.27	0-1	1
	1880.0	18900	20	16QAM	1	99	14.26	0-1	1
	1880.0	18900	20	16QAM	50	0	13.22	0-2	2
	1880.0	18900	20	16QAM	50	25	13.27	0-2	2
	1880.0	18900	20	16QAM	50	50	13.28	0-2	2
	1880.0	18900	20	16QAM	100	0	13.15	0-2	2
High	1900	19100	20	QPSK	1	0	15.43	0	0
	1900	19100	20	QPSK	1	50	15.44	0	0
	1900	19100	20	QPSK	1	99	15.50	0	0
	1900	19100	20	QPSK	50	0	14.26	0-1	1
	1900	19100	20	QPSK	50	25	14.13	0-1	1
	1900	19100	20	QPSK	50	50	14.11	0-1	1
	1900	19100	20	QPSK	100	0	14.12	0-1	1
	1900	19100	20	16QAM	1	0	14.24	0-1	1
	1900	19100	20	16QAM	1	50	14.13	0-1	1
	1900	19100	20	16QAM	1	99	14.39	0-1	1
	1900	19100	20	16QAM	50	0	13.21	0-2	2
	1900	19100	20	16QAM	50	25	13.12	0-2	2
	1900	19100	20	16QAM	50	50	13.24	0-2	2
	1900	19100	20	16QAM	100	0	13.13	0-2	2

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Table 8-38
LTE Band 2 (PCS) Conducted Powers - 15 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	15.30	0	0
	1857.5	18675	15	QPSK	1	36	15.25	0	0
	1857.5	18675	15	QPSK	1	74	15.33	0	0
	1857.5	18675	15	QPSK	36	0	14.02	0-1	1
	1857.5	18675	15	QPSK	36	18	14.15	0-1	1
	1857.5	18675	15	QPSK	36	37	14.18	0-1	1
	1857.5	18675	15	QPSK	75	0	14.06	0-1	1
	1857.5	18675	15	16QAM	1	0	14.10	0-1	1
	1857.5	18675	15	16QAM	1	36	14.16	0-1	1
	1857.5	18675	15	16QAM	1	74	14.46	0-1	1
	1857.5	18675	15	16QAM	36	0	13.08	0-2	2
	1857.5	18675	15	16QAM	36	18	13.16	0-2	2
Mid	1857.5	18675	15	16QAM	36	37	13.19	0-2	2
	1857.5	18675	15	16QAM	75	0	13.05	0-2	2
	1880.0	18900	15	QPSK	1	0	15.49	0	0
	1880.0	18900	15	QPSK	1	36	15.40	0	0
	1880.0	18900	15	QPSK	1	74	15.48	0	0
	1880.0	18900	15	QPSK	36	0	14.19	0-1	1
	1880.0	18900	15	QPSK	36	18	14.42	0-1	1
	1880.0	18900	15	QPSK	36	37	14.46	0-1	1
	1880.0	18900	15	QPSK	75	0	14.41	0-1	1
	1880.0	18900	15	16QAM	1	0	14.44	0-1	1
	1880.0	18900	15	16QAM	1	36	14.20	0-1	1
	1880.0	18900	15	16QAM	1	74	14.46	0-1	1
High	1880.0	18900	15	16QAM	36	0	13.46	0-2	2
	1880.0	18900	15	16QAM	36	18	13.47	0-2	2
	1880.0	18900	15	16QAM	36	37	13.48	0-2	2
	1880.0	18900	15	16QAM	75	0	13.50	0-2	2
	1902.5	19125	15	QPSK	1	0	15.37	0	0
	1902.5	19125	15	QPSK	1	36	15.38	0	0
	1902.5	19125	15	QPSK	1	74	15.44	0	0
	1902.5	19125	15	QPSK	36	0	14.20	0-1	1
	1902.5	19125	15	QPSK	36	18	14.07	0-1	1
	1902.5	19125	15	QPSK	36	37	14.05	0-1	1
	1902.5	19125	15	QPSK	75	0	14.06	0-1	1
	1902.5	19125	15	16QAM	1	0	14.18	0-1	1
	1902.5	19125	15	16QAM	1	36	14.07	0-1	1
	1902.5	19125	15	16QAM	1	74	14.33	0-1	1
	1902.5	19125	15	16QAM	36	0	13.15	0-2	2
	1902.5	19125	15	16QAM	36	18	13.06	0-2	2
	1902.5	19125	15	16QAM	36	37	13.18	0-2	2
	1902.5	19125	15	16QAM	75	0	13.07	0-2	2

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Table 8-39
LTE Band 2 (PCS) Conducted Powers - 10 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	15.23	0	0
	1855	18650	10	QPSK	1	25	15.18	0	0
	1855	18650	10	QPSK	1	49	15.26	0	0
	1855	18650	10	QPSK	25	0	14.00	0-1	1
	1855	18650	10	QPSK	25	12	14.08	0-1	1
	1855	18650	10	QPSK	25	25	14.11	0-1	1
	1855	18650	10	QPSK	50	0	14.29	0-1	1
	1855	18650	10	16QAM	1	0	14.03	0-1	1
	1855	18650	10	16QAM	1	25	14.09	0-1	1
	1855	18650	10	16QAM	1	49	14.39	0-1	1
	1855	18650	10	16QAM	25	0	13.01	0-2	2
	1855	18650	10	16QAM	25	12	13.09	0-2	2
	1855	18650	10	16QAM	25	25	13.12	0-2	2
Mid	1880.0	18900	10	QPSK	1	0	15.43	0	0
	1880.0	18900	10	QPSK	1	25	15.42	0	0
	1880.0	18900	10	QPSK	1	49	15.40	0	0
	1880.0	18900	10	QPSK	25	0	14.18	0-1	1
	1880.0	18900	10	QPSK	25	12	14.22	0-1	1
	1880.0	18900	10	QPSK	25	25	14.22	0-1	1
	1880.0	18900	10	QPSK	50	0	14.12	0-1	1
	1880.0	18900	10	16QAM	1	0	14.06	0-1	1
	1880.0	18900	10	16QAM	1	25	14.24	0-1	1
	1880.0	18900	10	16QAM	1	49	14.23	0-1	1
	1880.0	18900	10	16QAM	25	0	13.19	0-2	2
	1880.0	18900	10	16QAM	25	12	13.24	0-2	2
	1880.0	18900	10	16QAM	25	25	13.25	0-2	2
	1880.0	18900	10	16QAM	50	0	13.12	0-2	2
High	1905	19150	10	QPSK	1	0	15.34	0	0
	1905	19150	10	QPSK	1	25	15.35	0	0
	1905	19150	10	QPSK	1	49	15.41	0	0
	1905	19150	10	QPSK	25	0	14.17	0-1	1
	1905	19150	10	QPSK	25	12	14.04	0-1	1
	1905	19150	10	QPSK	25	25	14.02	0-1	1
	1905	19150	10	QPSK	50	0	14.03	0-1	1
	1905	19150	10	16QAM	1	0	14.15	0-1	1
	1905	19150	10	16QAM	1	25	14.04	0-1	1
	1905	19150	10	16QAM	1	49	14.30	0-1	1
	1905	19150	10	16QAM	25	0	13.12	0-2	2
	1905	19150	10	16QAM	25	12	13.03	0-2	2
	1905	19150	10	16QAM	25	25	13.15	0-2	2
	1905	19150	10	16QAM	50	0	13.04	0-2	2

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Table 8-40
LTE Band 2 (PCS) Conducted Powers - 5 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	15.31	0	0
	1852.5	18625	5	QPSK	1	12	15.26	0	0
	1852.5	18625	5	QPSK	1	24	15.34	0	0
	1852.5	18625	5	QPSK	12	0	14.08	0-1	1
	1852.5	18625	5	QPSK	12	6	14.16	0-1	1
	1852.5	18625	5	QPSK	12	13	14.19	0-1	1
	1852.5	18625	5	QPSK	25	0	14.37	0-1	1
	1852.5	18625	5	16-QAM	1	0	14.11	0-1	1
	1852.5	18625	5	16-QAM	1	12	14.17	0-1	1
	1852.5	18625	5	16-QAM	1	24	14.47	0-1	1
	1852.5	18625	5	16-QAM	12	0	13.09	0-2	2
	1852.5	18625	5	16-QAM	12	6	13.17	0-2	2
Mid	1852.5	18625	5	16-QAM	12	13	13.20	0-2	2
	1852.5	18625	5	16-QAM	25	0	13.11	0-2	2
	1880.0	18900	5	QPSK	1	0	15.37	0	0
	1880.0	18900	5	QPSK	1	12	15.36	0	0
	1880.0	18900	5	QPSK	1	24	15.34	0	0
	1880.0	18900	5	QPSK	12	0	14.12	0-1	1
	1880.0	18900	5	QPSK	12	6	14.16	0-1	1
	1880.0	18900	5	QPSK	12	13	14.16	0-1	1
	1880.0	18900	5	QPSK	25	0	14.06	0-1	1
	1880.0	18900	5	16-QAM	1	0	14.00	0-1	1
	1880.0	18900	5	16-QAM	1	12	14.18	0-1	1
	1880.0	18900	5	16-QAM	1	24	14.17	0-1	1
High	1880.0	18900	5	16-QAM	12	0	13.13	0-2	2
	1880.0	18900	5	16-QAM	12	6	13.18	0-2	2
	1880.0	18900	5	16-QAM	12	13	13.19	0-2	2
	1880.0	18900	5	16-QAM	25	0	13.06	0-2	2
	1907.5	19175	5	QPSK	1	0	15.41	0	0
	1907.5	19175	5	QPSK	1	12	15.42	0	0
	1907.5	19175	5	QPSK	1	24	15.48	0	0
	1907.5	19175	5	QPSK	12	0	14.24	0-1	1
	1907.5	19175	5	QPSK	12	6	14.22	0-1	1
	1907.5	19175	5	QPSK	12	13	14.09	0-1	1
	1907.5	19175	5	QPSK	25	0	14.10	0-1	1
	1907.5	19175	5	16-QAM	1	0	14.21	0-1	1
	1907.5	19175	5	16-QAM	1	12	14.11	0-1	1
	1907.5	19175	5	16-QAM	1	24	14.37	0-1	1
	1907.5	19175	5	16-QAM	12	0	13.19	0-2	2
	1907.5	19175	5	16-QAM	12	6	13.07	0-2	2
	1907.5	19175	5	16-QAM	12	13	13.20	0-2	2
	1907.5	19175	5	16-QAM	25	0	13.11	0-2	2

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Table 8-41
LTE Band 2 (PCS) Conducted Powers - 3 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	15.22	0	0
	1851.5	18615	3	QPSK	1	7	15.17	0	0
	1851.5	18615	3	QPSK	1	14	15.25	0	0
	1851.5	18615	3	QPSK	8	0	13.94	0-1	1
	1851.5	18615	3	QPSK	8	4	14.07	0-1	1
	1851.5	18615	3	QPSK	8	7	14.10	0-1	1
	1851.5	18615	3	QPSK	15	0	14.11	0-1	1
	1851.5	18615	3	16-QAM	1	0	14.02	0-1	1
	1851.5	18615	3	16-QAM	1	7	14.08	0-1	1
	1851.5	18615	3	16-QAM	1	14	14.38	0-1	1
	1851.5	18615	3	16-QAM	8	0	13.00	0-2	2
	1851.5	18615	3	16-QAM	8	4	13.08	0-2	2
	1851.5	18615	3	16-QAM	8	7	13.11	0-2	2
Mid	1880.0	18900	3	QPSK	1	0	15.41	0	0
	1880.0	18900	3	QPSK	1	7	15.32	0	0
	1880.0	18900	3	QPSK	1	14	15.40	0	0
	1880.0	18900	3	QPSK	8	0	14.11	0-1	1
	1880.0	18900	3	QPSK	8	4	14.34	0-1	1
	1880.0	18900	3	QPSK	8	7	14.38	0-1	1
	1880.0	18900	3	QPSK	15	0	14.33	0-1	1
	1880.0	18900	3	16-QAM	1	0	14.36	0-1	1
	1880.0	18900	3	16-QAM	1	7	14.12	0-1	1
	1880.0	18900	3	16-QAM	1	14	14.38	0-1	1
	1880.0	18900	3	16-QAM	8	0	13.42	0-2	2
	1880.0	18900	3	16-QAM	8	4	13.39	0-2	2
	1880.0	18900	3	16-QAM	8	7	13.38	0-2	2
	1880.0	18900	3	16-QAM	15	0	13.42	0-2	2
High	1908.5	19185	3	QPSK	1	0	15.29	0	0
	1908.5	19185	3	QPSK	1	7	15.30	0	0
	1908.5	19185	3	QPSK	1	14	15.36	0	0
	1908.5	19185	3	QPSK	8	0	14.12	0-1	1
	1908.5	19185	3	QPSK	8	4	14.09	0-1	1
	1908.5	19185	3	QPSK	8	7	14.22	0-1	1
	1908.5	19185	3	QPSK	15	0	14.03	0-1	1
	1908.5	19185	3	16-QAM	1	0	14.10	0-1	1
	1908.5	19185	3	16-QAM	1	7	13.99	0-1	1
	1908.5	19185	3	16-QAM	1	14	14.25	0-1	1
	1908.5	19185	3	16-QAM	8	0	13.07	0-2	2
	1908.5	19185	3	16-QAM	8	4	12.98	0-2	2
	1908.5	19185	3	16-QAM	8	7	13.10	0-2	2
	1908.5	19185	3	16-QAM	15	0	12.99	0-2	2

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Table 8-42
LTE Band 2 (PCS) Conducted Powers -1.4 MHz Bandwidth
Reduced Power – Body at 0.0 cm

	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	15.23	0	0
	1850.7	18607	1.4	QPSK	1	2	15.18	0	0
	1850.7	18607	1.4	QPSK	1	5	15.26	0	0
	1850.7	18607	1.4	QPSK	3	0	15.03	0	0
	1850.7	18607	1.4	QPSK	3	2	15.19	0	0
	1850.7	18607	1.4	QPSK	3	3	15.28	0	0
	1850.7	18607	1.4	QPSK	6	0	14.03	0-1	1
	1850.7	18607	1.4	16-QAM	1	0	14.03	0-1	1
	1850.7	18607	1.4	16-QAM	1	2	14.09	0-1	1
	1850.7	18607	1.4	16-QAM	1	5	14.39	0-1	1
	1850.7	18607	1.4	16-QAM	3	0	14.24	0-1	1
	1850.7	18607	1.4	16-QAM	3	2	14.21	0-1	1
	1850.7	18607	1.4	16-QAM	3	3	14.32	0-1	1
	1850.7	18607	1.4	16-QAM	6	0	12.98	0-2	2
Mid	1880.0	18900	1.4	QPSK	1	0	15.42	0	0
	1880.0	18900	1.4	QPSK	1	2	15.33	0	0
	1880.0	18900	1.4	QPSK	1	5	15.41	0	0
	1880.0	18900	1.4	QPSK	3	0	15.32	0	0
	1880.0	18900	1.4	QPSK	3	2	15.23	0	0
	1880.0	18900	1.4	QPSK	3	3	15.03	0	0
	1880.0	18900	1.4	QPSK	6	0	14.34	0-1	1
	1880.0	18900	1.4	16-QAM	1	0	14.37	0-1	1
	1880.0	18900	1.4	16-QAM	1	2	14.13	0-1	1
	1880.0	18900	1.4	16-QAM	1	5	14.39	0-1	1
	1880.0	18900	1.4	16-QAM	3	0	14.38	0-1	1
	1880.0	18900	1.4	16-QAM	3	2	14.32	0-1	1
	1880.0	18900	1.4	16-QAM	3	3	14.22	0-1	1
	1880.0	18900	1.4	16-QAM	6	0	13.43	0-2	2
High	1909.3	19193	1.4	QPSK	1	0	15.30	0	0
	1909.3	19193	1.4	QPSK	1	2	15.31	0	0
	1909.3	19193	1.4	QPSK	1	5	15.37	0	0
	1909.3	19193	1.4	QPSK	3	0	15.28	0	0
	1909.3	19193	1.4	QPSK	3	2	15.22	0	0
	1909.3	19193	1.4	QPSK	3	3	14.99	0	0
	1909.3	19193	1.4	QPSK	6	0	13.99	0-1	1
	1909.3	19193	1.4	16-QAM	1	0	14.11	0-1	1
	1909.3	19193	1.4	16-QAM	1	2	14.00	0-1	1
	1909.3	19193	1.4	16-QAM	1	5	14.26	0-1	1
	1909.3	19193	1.4	16-QAM	3	0	14.03	0-1	1
	1909.3	19193	1.4	16-QAM	3	2	14.11	0-1	1
	1909.3	19193	1.4	16-QAM	3	3	14.28	0-1	1
	1909.3	19193	1.4	16-QAM	6	0	13.00	0-2	2

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8.2.5 LTE Carrier Aggregation Conducted Powers

Table 8-43
LTE Carrier Aggregation Conducted Powers

PCC						+	SCC				Power	
PCC Band	PCC Bandwidth [MHz]	PCC Frequency [MHz]	PCC Channel	PCC UL# RB	PCC UL RB Offset		SCC Band	SCC Bandwidth [MHz]	SCC Frequency [MHz]	SCC Channel	LTE Rel 10 Tx.Power (dBm)	LTE Rel. 8 Tx.Power (dBm)
LTE B2	5	1852.5	18625	1	24	+	LTE B4	20	2132.5	2175	23.19	23.49
LTE B4	20	1732.5	20175	1	99	+	LTE B2	20	1960	900	23.33	23.47
LTE B4	20	1732.5	20175	1	99	+	LTE B12	10	737.5	5095	23.32	23.47
LTE B12	5	701.5	23035	1	12	+	LTE B4	20	2132.5	2175	23.49	23.50
LTE B2	5	1852.5	18625	1	24	+	LTE B12	10	737.5	5095	23.10	23.49
LTE B12	5	701.5	23035	1	12	+	LTE B2	20	1960	900	23.38	23.50
LTE B4	10	1715	20000	1	49	+	LTE B4	20	2132.5	2175	23.45	23.48

Table 8-44
LTE Carrier Aggregation Conducted Powers
Reduced Power – Body at 0.0 cm

PCC						+	SCC				Power	
PCC Band	PCC Bandwidth [MHz]	PCC Frequency [MHz]	PCC Channel	PCC UL# RB	PCC UL RB Offset		SCC Band	SCC Bandwidth [MHz]	SCC Frequency [MHz]	SCC Channel	LTE Rel 10 Tx.Power (dBm)	LTE Rel. 8 Tx.Power (dBm)
LTE B2	20	1900	19100	1	99	+	LTE B4	20	2132.5	2175	15.01	15.50
LTE B4	15	1717.5	20025	1	36	+	LTE B2	20	1960	900	14.28	14.46
LTE B4	15	1717.5	20025	1	36	+	LTE B12	10	737.5	5095	14.27	14.46
LTE B12	3	700.5	23025	1	14	+	LTE B4	20	2132.5	2175	17.67	18.06
LTE B2	20	1900	19100	1	99	+	LTE B12	10	737.5	5095	15.00	15.50
LTE B12	3	700.5	23025	1	14	+	LTE B2	20	1960	900	17.59	18.06
LTE B4	15	1717.5	20025	1	36	+	LTE B4	20	2132.5	2175	14.25	14.46

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 output power (across all bandwidths, channels and RB Configurations) for each band
3. This device only supports intra-band and inter-band CA with 2 carriers (LTE B12 (PCC) + LTE B4 (SCC), LTE B12 (PCC) + LTE B2 (SCC), LTE B4 (PCC)+ LTE B2 (SCC), LTE B4(PCC) + LTE B12(SCC), LTE 2(PCC) + LTE B12(SCC), LTE B2(PCC) + LTE B4(SCC), LTE B4(PCC) + LTE B4(SCC)).
4. All control and acknowledge data is sent on uplink channels that operate identical to release 8 specifications.

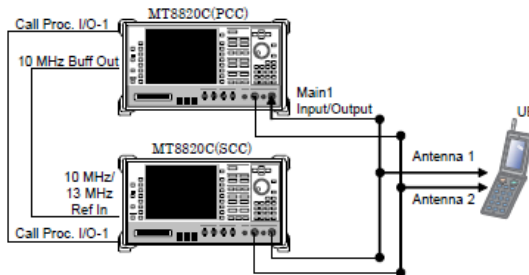


Figure 8-2
Power Measurement Setup

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8.3 WLAN Conducted Powers

Table 8-45
2.4 GHz Average RF Power Antenna 1

Freq [MHz]	Channel	2.4GHz Conducted Power [dBm]	
		IEEE Transmission Mode	
		802.11b	802.11g
2412	1	17.42	15.25
2437	6	16.85	15.15
2462	11	17.49	15.05

Table 8-46
2.4 GHz Average RF Power Antenna 1
Reduced Power – Body at 0.0 cm

Freq [MHz]	Channel	2.4GHz Conducted Power [dBm]		
		IEEE Transmission Mode		
		802.11b	802.11g	802.11n
2412	1	13.92	13.98	13.89
2437	6	14.30	14.14	13.28
2462	11	14.26	14.20	14.25

Table 8-47
2.4 GHz Average RF Power Antenna 2

Freq [MHz]	Channel	2.4GHz Conducted Power [dBm]	
		IEEE Transmission Mode	
		802.11b	802.11g
2412	1	17.11	14.96
2437	6	16.49	14.67
2462	11	16.38	15.31

Table 8-48
2.4 GHz Average RF Power Antenna 2
Reduced Power – Body at 0.0 cm

Freq [MHz]	Channel	2.4GHz Conducted Power [dBm]		
		IEEE Transmission Mode		
		802.11b	802.11g	802.11n
2412	1	12.18	11.54	11.60
2437	6	12.13	11.45	11.55
2462	11	11.73	11.87	11.87

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Table 8-49
5 GHz (20 MHz Bandwidth) Average RF Power – Antenna 1

Freq [MHz]	Channel	5GHz (20MHz) Conducted Power [dBm]		
		IEEE Transmission Mode		
		802.11a	802.11n	802.11ac
5180	36	12.66	12.22	12.64
5200	40	12.85	12.51	12.40
5220	44	12.90	12.64	12.43
5240	48	13.06	12.88	12.56
5260	52	13.30	13.17	13.11
5280	56	13.33	13.09	13.23
5300	60	13.19	13.00	13.34
5320	64	13.01	12.99	13.33
5500	100	13.30	13.24	13.01
5580	116	12.52	12.51	13.29
5660	132	12.74	12.74	12.49
5720	144	12.84	12.76	12.50
5745	149	13.31	13.16	12.90
5785	157	13.33	13.25	12.97
5825	165	13.33	13.25	13.10

Table 8-50
5 GHz (80 MHz Bandwidth) Average RF Power – Antenna 1
Reduced Power – Body at 0.0 cm

5GHz (80MHz) Conducted Power		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
5210	42	8.23
5290	58	8.24
5530	106	7.87
5690	138	7.64
5775	155	7.83

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Table 8-51
5 GHz (20 MHz Bandwidth) Average RF Power – Antenna 2

Freq [MHz]	Channel	5GHz (20MHz) Conducted Power [dBm]		
		IEEE Transmission Mode		
		802.11a	802.11n	802.11ac
5180	36	12.74	12.63	12.57
5200	40	12.60	12.55	12.64
5220	44	12.65	12.47	12.47
5240	48	12.56	12.46	12.37
5260	52	12.98	12.88	12.88
5280	56	12.89	12.79	12.73
5300	60	12.84	12.80	12.76
5320	64	12.84	12.75	12.86
5500	100	12.99	12.92	12.97
5580	116	13.10	13.04	12.99
5660	132	13.02	13.09	12.98
5720	144	13.19	13.07	13.05
5745	149	12.49	12.34	12.42
5785	157	12.45	12.33	12.33
5825	165	12.43	12.37	12.36

Table 8-52
5 GHz (80 MHz Bandwidth) Average RF Power – Antenna 2
Reduced Power – Body at 0.0 cm

5GHz (80MHz) Conducted Power		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
5210	42	7.06
5290	58	7.02
5530	106	6.77
5690	138	6.73
5775	155	7.03

Justification for test configurations for WLAN per KDB Publication 248227 D01 Wi-Fi SAR v02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- The bolded data rate and channel above were tested for SAR.

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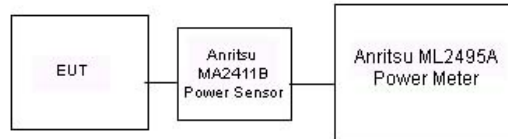


Figure 8-3
Power Measurement Setup for Bandwidths < 50 MHz

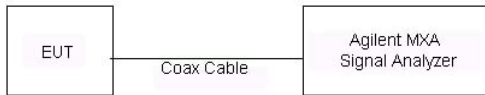


Figure 8-4
Power Measurement Setup for Bandwidths > 50 MHz

Table 8-53
Bluetooth Average RF Power

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	9.18	8.271
2441	1.0	39	9.45	8.819
2480	1.0	78	8.97	7.888
2402	2.0	0	4.63	2.904
2441	2.0	39	5.45	3.511
2480	2.0	78	4.89	3.080
2402	3.0	0	4.69	2.947
2441	3.0	39	5.51	3.552
2480	3.0	78	4.95	3.123

Note: The bolded data rate and channel above was tested for SAR.

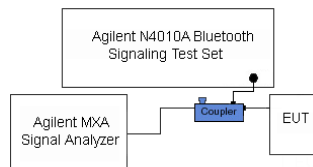


Figure 8-5
Power Measurement Setup

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9 SYSTEM VERIFICATION

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
5/4/2015	750B	22.0	695	0.915	54.994	0.959	55.745	-4.59%	-1.35%
			710	0.929	54.841	0.960	55.687	-3.23%	-1.52%
			725	0.943	54.708	0.961	55.629	-1.87%	-1.66%
			740	0.956	54.543	0.963	55.570	-0.73%	-1.85%
			755	0.969	54.393	0.964	55.512	0.52%	-2.02%
4/27/2015	835B	21.5	820	0.978	54.362	0.969	55.258	0.93%	-1.62%
			835	0.992	54.192	0.970	55.200	2.27%	-1.83%
			850	1.007	54.064	0.988	55.154	1.92%	-1.98%
4/30/2015	835B	22.0	820	0.968	53.396	0.969	55.258	-0.10%	-3.37%
			835	0.981	53.240	0.970	55.200	1.13%	-3.55%
			850	0.996	53.116	0.988	55.154	0.81%	-3.70%
4/27/2015	1750B	21.4	1710	1.408	53.031	1.463	53.537	-3.76%	-0.95%
			1750	1.451	52.881	1.488	53.432	-2.49%	-1.03%
			1790	1.497	52.760	1.514	53.326	-1.12%	-1.06%
5/4/2015	1750B	21.4	1710	1.428	52.582	1.463	53.537	-2.39%	-1.78%
			1750	1.473	52.409	1.488	53.432	-1.01%	-1.91%
			1790	1.514	52.248	1.514	53.326	0.00%	-2.02%
5/1/2015	1900B	21.0	1850	1.509	52.315	1.520	53.300	-0.72%	-1.85%
			1880	1.539	52.225	1.520	53.300	1.25%	-2.02%
			1910	1.576	52.030	1.520	53.300	3.68%	-2.38%
4/29/2015	2450B	22.2	2401	1.903	51.513	1.903	52.765	0.00%	-2.37%
			2450	1.962	51.310	1.950	52.700	0.62%	-2.64%
			2499	2.028	51.126	2.019	52.638	0.45%	-2.87%
04/27/2015	5200B-5800B	21.0	5260	5.344	48.108	5.369	48.933	-0.47%	-1.69%
			5280	5.374	48.052	5.393	48.906	-0.35%	-1.75%
			5300	5.409	48.022	5.416	48.879	-0.13%	-1.75%
			5500	5.652	47.731	5.650	48.607	0.04%	-1.80%
			5520	5.681	47.670	5.673	48.580	0.14%	-1.87%
			5540	5.713	47.612	5.696	48.553	0.30%	-1.94%
			5600	5.803	47.570	5.766	48.471	0.64%	-1.86%
			5680	5.920	47.400	5.860	48.363	1.02%	-1.99%
			5700	5.951	47.399	5.883	48.336	1.16%	-1.94%
			5745	5.999	47.334	5.936	48.275	1.06%	-1.95%
			5765	6.018	47.310	5.959	48.248	0.99%	-1.94%
			5785	6.058	47.224	5.982	48.220	1.27%	-2.07%
			5800	6.073	47.223	6.000	48.200	1.22%	-2.03%

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} (%)
A	750	BODY	05/04/2015	24.2	22.0	0.100	1046	3331	0.890	8.290	8.900	7.36%
J	835	BODY	04/27/2015	20.9	21.9	0.100	4d133	3022	0.940	9.350	9.400	0.53%
D	835	BODY	04/30/2015	23.3	22.7	0.100	4d133	3209	0.990	9.350	9.900	5.88%
G	1750	BODY	04/27/2015	22.3	21.4	0.100	1008	3318	3.580	37.600	35.800	-4.79%
G	1750	BODY	05/04/2015	24.1	21.4	0.100	1051	3318	3.710	37.100	37.100	0.00%
K	1900	BODY	05/01/2015	22.3	21.0	0.100	5d141	3288	4.020	40.000	40.200	0.50%
J	2450	BODY	04/29/2015	21.4	21.7	0.100	719	3319	5.560	51.800	55.600	7.34%
E	5300	BODY	04/27/2015	20.9	20.6	0.050	1057	3589	3.840	74.200	76.800	3.50%
E	5500	BODY	04/27/2015	20.9	20.6	0.050	1057	3589	3.780	79.200	75.600	-4.55%
E	5600	BODY	04/27/2015	21.0	20.7	0.050	1057	3589	3.910	77.700	78.200	0.64%
E	5800	BODY	04/27/2015	21.1	20.7	0.050	1057	3589	3.450	75.100	69.000	-8.12%

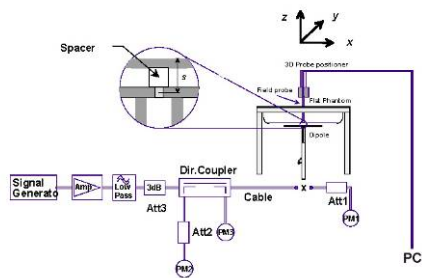


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 Standalone Wireless Router 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	22.68	0.02	24 mm	8026	1:1	back	0.273	1.208	0.330	
826.40	4132	UMTS 850	RMC	17.0	16.96	0.02	0 mm	6798	1:1	back	0.911	1.009	0.919	
836.60	4183	UMTS 850	RMC	17.0	16.94	0.02	0 mm	6798	1:1	back	0.926	1.014	0.939	
846.60	4233	UMTS 850	RMC	17.0	16.84	0.20	0 mm	6798	1:1	back	0.920	1.038	0.955	
836.60	4183	UMTS 850	RMC	23.5	22.68	0.02	24 mm	8026	1:1	top	0.336	1.208	0.406	
826.40	4132	UMTS 850	RMC	17.0	16.96	0.05	0 mm	6798	1:1	top	0.984	1.009	0.993	
836.60	4183	UMTS 850	RMC	17.0	16.94	0.04	0 mm	6798	1:1	top	0.993	1.014	1.007	A1
846.60	4233	UMTS 850	RMC	17.0	16.84	0.01	0 mm	6798	1:1	top	0.989	1.038	1.027	
836.60	4183	UMTS 850	RMC	23.5	22.68	0.07	0 mm	8026	1:1	right	0.258	1.208	0.312	
836.60	4183	UMTS 850	RMC	23.5	22.68	0.15	0 mm	8026	1:1	left	0.146	1.208	0.176	
836.60	4183	UMTS 850	RMC	17.0	16.94	0.11	0 mm	6798	1:1	top	0.904	1.014	0.917	
1732.40	1412	UMTS 1750	RMC	23.5	23.27	-0.04	24 mm	5775	1:1	back	0.210	1.054	0.221	
1712.40	1312	UMTS 1750	RMC	15.0	14.89	-0.03	0 mm	6062	1:1	back	0.988	1.026	1.014	
1732.40	1412	UMTS 1750	RMC	15.0	14.91	-0.01	0 mm	6062	1:1	back	1.030	1.021	1.052	
1752.50	1862	UMTS 1750	RMC	15.0	14.99	0.00	0 mm	6062	1:1	back	1.080	1.002	1.082	A2
1732.40	1412	UMTS 1750	RMC	23.5	23.27	0.00	24 mm	5775	1:1	top	0.211	1.054	0.222	
1732.40	1412	UMTS 1750	RMC	15.0	14.91	-0.12	0 mm	6062	1:1	top	0.614	1.021	0.627	
1732.40	1412	UMTS 1750	RMC	23.5	23.27	-0.07	0 mm	5775	1:1	right	0.230	1.054	0.242	
1712.40	1312	UMTS 1750	RMC	23.5	23.40	-0.04	0 mm	5775	1:1	left	0.731	1.023	0.748	
1732.40	1412	UMTS 1750	RMC	23.5	23.27	-0.02	0 mm	5775	1:1	left	0.842	1.054	0.887	
1752.50	1862	UMTS 1750	RMC	23.5	23.17	-0.04	0 mm	5775	1:1	left	0.919	1.079	0.992	
1752.50	1862	UMTS 1750	RMC	15.0	14.99	0.11	0 mm	6062	1:1	back	0.928	1.002	0.930	
1880.00	9400	UMTS 1900	RMC	22.5	22.05	0.04	24 mm	8026	1:1	back	0.183	1.109	0.203	
1852.40	9262	UMTS 1900	RMC	15.0	14.68	-0.07	0 mm	6798	1:1	back	0.887	1.076	0.954	
1880.00	9400	UMTS 1900	RMC	15.0	14.88	-0.06	0 mm	6798	1:1	back	0.926	1.028	0.952	
1907.60	9538	UMTS 1900	RMC	15.0	14.96	-0.04	0 mm	6798	1:1	back	1.080	1.009	1.090	A3
1880.00	9400	UMTS 1900	RMC	22.5	22.05	0.03	24 mm	8026	1:1	top	0.227	1.109	0.252	
1880.00	9400	UMTS 1900	RMC	15.0	14.88	-0.17	0 mm	6798	1:1	top	0.404	1.028	0.415	
1880.00	9400	UMTS 1900	RMC	22.5	22.05	0.05	0 mm	8026	1:1	right	0.059	1.109	0.065	
1880.00	9400	UMTS 1900	RMC	22.5	22.05	0.04	0 mm	8026	1:1	left	0.440	1.109	0.488	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement

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Table 10-2
LTE Band 12 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)		
707.50	23095	Mid	LTE Band 12	10	23.5	23.33	0.04	0	7318	QPSK	1	25	24 mm	back	1:1	0.077	1.040	0.080	
707.50	23095	Mid	LTE Band 12	10	22.5	22.04	-0.04	1	7318	QPSK	25	0	24 mm	back	1:1	0.057	1.112	0.063	
707.50	23095	Mid	LTE Band 12	10	18.5	17.65	-0.01	0	8134	QPSK	1	49	0 mm	back	1:1	0.588	1.216	0.715	
707.50	23095	Mid	LTE Band 12	10	17.5	16.45	-0.02	1	8134	QPSK	25	12	0 mm	back	1:1	0.428	1.274	0.545	
707.50	23095	Mid	LTE Band 12	10	23.5	23.33	0.01	0	7318	QPSK	1	25	24 mm	top	1:1	0.095	1.040	0.099	
707.50	23095	Mid	LTE Band 12	10	22.5	22.04	0.08	1	7318	QPSK	25	0	24 mm	top	1:1	0.072	1.112	0.080	
707.50	23095	Mid	LTE Band 12	10	18.5	17.65	-0.09	0	8134	QPSK	1	49	0 mm	top	1:1	0.876	1.216	1.065	
707.50	23095	Mid	LTE Band 12	10	17.5	16.45	-0.06	1	8134	QPSK	25	12	0 mm	top	1:1	0.641	1.274	0.817	
707.50	23095	Mid	LTE Band 12	10	17.5	16.36	-0.20	1	8134	QPSK	50	0	0 mm	top	1:1	0.646	1.300	0.840	
707.50	23095	Mid	LTE Band 12	10	23.5	23.33	-0.09	0	7318	QPSK	1	25	0 mm	right	1:1	0.108	1.040	0.112	
707.50	23095	Mid	LTE Band 12	10	22.5	22.04	0.15	1	7318	QPSK	25	0	0 mm	right	1:1	0.090	1.112	0.100	
707.50	23095	Mid	LTE Band 12	10	23.5	23.33	0.05	0	7318	QPSK	1	25	0 mm	left	1:1	0.082	1.040	0.085	
707.50	23095	Mid	LTE Band 12	10	22.5	22.04	0.08	1	7318	QPSK	25	0	0 mm	left	1:1	0.063	1.112	0.070	
707.50	23095	Mid	LTE Band 12	10	18.5	17.65	-0.08	0	8134	QPSK	1	49	0 mm	top	1:1	0.877	1.216	1.066	A4
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: Blue entry represents variability measurement

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) (W/kg)	Scaling Factor	Scaled SAR (1g) (W/kg)	Plot #	
MHz	Ch.																		
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.5	23.15	-0.02	0	7598	QPSK	1	25	24 mm	back	1:1	0.278	1.084	0.301	A5
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	21.66	-0.11	1	7598	QPSK	25	0	24 mm	back	1:1	0.197	1.213	0.239	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.5	17.15	0.06	0	8117	QPSK	1	25	0 mm	back	1:1	0.957	1.084	1.037	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.5	15.94	0.04	1	8117	QPSK	25	0	0 mm	back	1:1	0.708	1.138	0.806	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.5	15.93	0.02	1	8117	QPSK	50	0	0 mm	back	1:1	0.698	1.140	0.796	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.5	23.15	0.02	0	7598	QPSK	1	25	24 mm	top	1:1	0.329	1.084	0.357	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	21.66	-0.04	1	7598	QPSK	25	0	24 mm	top	1:1	0.230	1.213	0.279	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.5	17.15	0.01	0	8117	QPSK	1	25	0 mm	top	1:1	0.759	1.084	0.823	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.5	15.94	0.07	1	8117	QPSK	25	0	0 mm	top	1:1	0.586	1.138	0.667	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.5	15.93	0.04	1	8117	QPSK	50	0	0 mm	top	1:1	0.571	1.140	0.651	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.5	23.15	0.06	0	7598	QPSK	1	25	0 mm	right	1:1	0.179	1.084	0.194	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	21.66	0.06	1	7598	QPSK	25	0	0 mm	right	1:1	0.141	1.213	0.171	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.5	23.15	0.01	0	7598	QPSK	1	25	0 mm	left	1:1	0.249	1.084	0.270	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	21.66	0.00	1	7598	QPSK	25	0	0 mm	left	1:1	0.200	1.213	0.243	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body											
Spatial Peak								1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 1 gram											

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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)	Scaling Factor	Scaled SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.5	23.47	0.11	0	7598	QPSK	1	99	24 mm	back	1:1	0.227	1.007	0.229	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.5	21.96	0.05	1	7598	QPSK	50	50	24 mm	back	1:1	0.163	1.132	0.185	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.39	-0.07	0	6947	QPSK	1	0	0 mm	back	1:1	0.604	1.026	0.620	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.5	13.08	-0.14	1	6947	QPSK	50	25	0 mm	back	1:1	0.494	1.102	0.544	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.5	23.47	-0.01	0	7598	QPSK	1	99	24 mm	top	1:1	0.252	1.007	0.254	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.5	21.96	0.11	1	7598	QPSK	50	50	24 mm	top	1:1	0.192	1.132	0.217	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.39	-0.04	0	6947	QPSK	1	0	0 mm	top	1:1	0.199	1.026	0.204	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.5	13.08	0.03	1	6947	QPSK	50	25	0 mm	top	1:1	0.187	1.102	0.206	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.5	23.47	0.04	0	7598	QPSK	1	99	0 mm	right	1:1	0.273	1.007	0.275	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.5	21.96	0.10	1	7598	QPSK	50	50	0 mm	right	1:1	0.204	1.132	0.231	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.5	23.47	-0.05	0	7598	QPSK	1	99	0 mm	left	1:1	1.010	1.007	1.017	A6
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.5	21.96	-0.06	1	7598	QPSK	50	50	0 mm	left	1:1	0.758	1.132	0.858	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.5	21.93	-0.20	1	7589	QPSK	100	0	0 mm	left	1:1	0.720	1.140	0.821	
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 10-5
LTE Band 2 (PCS) Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Num ber	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1860.00	18700	Low	LTE Band 2 (PCS)	20	23.5	23.36	0.02	0	7598	QPSK	1	99	24 mm	back	1:1	0.197	1.033	0.204	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22.5	22.19	0.00	1	7598	QPSK	50	50	24 mm	back	1:1	0.148	1.074	0.159	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.5	15.07	-0.19	0	6947	QPSK	1	99	0 mm	back	1:1	0.943	1.104	1.041	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.5	15.46	-0.12	0	6947	QPSK	1	0	0 mm	back	1:1	1.030	1.009	1.039	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.5	15.50	-0.06	0	6947	QPSK	1	99	0 mm	back	1:1	1.100	1.000	1.100	A7
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.5	13.92	0.08	1	6947	QPSK	50	50	0 mm	back	1:1	0.741	1.143	0.847	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.5	14.25	0.10	1	6947	QPSK	50	25	0 mm	back	1:1	0.742	1.059	0.786	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.5	14.26	0.06	1	6947	QPSK	50	0	0 mm	back	1:1	0.854	1.057	0.903	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.5	14.15	0.10	1	6947	QPSK	100	0	0 mm	back	1:1	0.757	1.084	0.821	
1860.00	18700	Low	LTE Band 2 (PCS)	20	23.5	23.36	-0.05	0	7598	QPSK	1	99	24 mm	top	1:1	0.245	1.033	0.253	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22.5	22.19	0.16	1	7598	QPSK	50	50	24 mm	top	1:1	0.191	1.074	0.205	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.5	15.50	-0.05	0	6947	QPSK	1	99	0 mm	top	1:1	0.456	1.000	0.456	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.5	14.26	-0.02	1	6947	QPSK	50	0	0 mm	top	1:1	0.383	1.057	0.405	
1860.00	18700	Low	LTE Band 2 (PCS)	20	23.5	23.36	0.05	0	7598	QPSK	1	99	0 mm	right	1:1	0.055	1.033	0.057	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22.5	22.19	0.05	1	7598	QPSK	50	50	0 mm	right	1:1	0.052	1.074	0.056	
1860.00	18700	Low	LTE Band 2 (PCS)	20	23.5	23.36	-0.08	0	7598	QPSK	1	99	0 mm	left	1:1	0.585	1.033	0.604	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22.5	22.19	0.03	1	7598	QPSK	50	50	0 mm	left	1:1	0.448	1.074	0.481	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.5	15.50	0.06	0	6947	QPSK	1	99	0 mm	back	1:1	0.999	1.000	0.999	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																			

Note: Blue entry represents variability measurement

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Table 10-6
2.4 GHz WLAN Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Scaled SAR (1g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	
2412	1	802.11b	DSSS	22	17.5	17.42	0.02	4 mm	1	6905	1	back	99.8	0.260	1.019	1.002	0.266	
2462	11	802.11b	DSSS	22	17.5	17.49	-0.01	4 mm	1	6905	1	back	99.8	0.830	1.002	1.002	0.834	
2437	6	802.11b	DSSS	22	14.5	14.30	0.02	0 mm	1	7937	1	back	99.8	1.020	1.047	1.002	1.070	A8
2462	11	802.11b	DSSS	22	14.5	14.26	0.04	0 mm	1	7937	1	back	99.8	0.956	1.057	1.002	1.012	
2462	11	802.11b	DSSS	22	17.5	17.49	0.18	0 mm	1	6905	1	top	99.8	0.003	1.002	1.002	0.003	
2462	11	802.11b	DSSS	22	17.5	17.49	-0.05	0 mm	1	6905	1	bottom	99.8	0.220	1.002	1.002	0.220	
2462	11	802.11b	DSSS	22	17.5	17.49	-0.08	0 mm	1	6905	1	right	99.8	0.245	1.002	1.002	0.245	
2462	11	802.11b	DSSS	22	17.5	17.49	0.16	0 mm	1	6905	1	left	99.8	0.027	1.002	1.002	0.027	
2412	1	802.11b	DSSS	22	17.5	17.11	-0.06	4 mm	2	6905	1	back	99.9	0.235	1.094	1.001	0.257	
2412	1	802.11b	DSSS	22	12.5	12.18	0.09	0 mm	2	7937	1	back	99.9	0.430	1.076	1.001	0.463	
2412	1	802.11b	DSSS	22	17.5	17.11	-0.17	0 mm	2	6905	1	top	99.9	0.002	1.094	1.001	0.002	
2412	1	802.11b	DSSS	22	17.5	17.11	-0.15	0 mm	2	6905	1	bottom	99.9	0.116	1.094	1.001	0.127	
2412	1	802.11b	DSSS	22	17.5	17.11	-0.13	0 mm	2	6905	1	right	99.9	0.064	1.094	1.001	0.070	
2412	1	802.11b	DSSS	22	17.5	17.11	-0.09	0 mm	2	6905	1	left	99.9	0.006	1.094	1.001	0.007	
2437	6	802.11b	DSSS	22	14.5	14.30	-0.06	0 mm	1	7937	1	back	99.8	0.907	1.047	1.002	0.952	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body										
Spatial Peak								1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population								averaged over 1 gram										

Note: Blue entries represent variability measurement

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Table 10-7
5 GHz WLAN Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Scaled SAR (1g) (W/kg)	Plot #
MHz	Ch.													(W/kg)				
5300	60	802.11ac	OFDM	20	13.5	13.34	0.10	4mm	1	6905	6.5	back	98.2	0.399	1.038	1.019	0.422	
5290	58	802.11ac	OFDM	80	8.5	8.24	0.01	0 mm	1	7937	29.3	back	95.5	0.832	1.062	1.047	0.926	
5300	60	802.11ac	OFDM	20	13.5	13.34	0.03	0 mm	1	6905	6.5	top	98.2	0.002	1.038	1.019	0.002	
5300	60	802.11ac	OFDM	20	13.5	13.34	0.00	0 mm	1	6905	6.5	bottom	98.2	0.129	1.038	1.019	0.137	
5300	60	802.11ac	OFDM	20	13.5	13.34	-0.05	0 mm	1	6905	6.5	right	98.2	0.335	1.038	1.019	0.355	
5300	60	802.11ac	OFDM	20	13.5	13.34	-0.09	0 mm	1	6905	6.5	left	98.2	0.005	1.038	1.019	0.005	
5260	52	802.11a	OFDM	20	13.5	12.98	-0.02	4 mm	2	6905	6	back	99.0	0.619	1.127	1.010	0.705	
5290	58	802.11ac	OFDM	80	7.5	7.02	0.05	0 mm	2	7937	29.3	back	95.8	0.864	1.117	1.044	1.007	A9
5260	52	802.11a	OFDM	20	13.5	12.98	-0.11	0 mm	2	6905	6	top	99.0	0.002	1.127	1.010	0.002	
5260	52	802.11a	OFDM	20	13.5	12.98	0.19	0 mm	2	6905	6	bottom	99.0	0.220	1.127	1.010	0.250	
5260	52	802.11a	OFDM	20	13.5	12.98	0.07	0 mm	2	6905	6	right	99.0	0.018	1.127	1.010	0.020	
5260	52	802.11a	OFDM	20	13.5	12.98	-0.04	0 mm	2	6905	6	left	99.0	0.028	1.127	1.010	0.032	
5500	100	802.11a	OFDM	20	13.5	13.30	0.04	4 mm	1	6905	6	back	98.4	0.295	1.047	1.017	0.314	
5530	106	802.11ac	OFDM	80	8.5	7.87	0.04	0 mm	1	7937	29.3	back	95.5	0.609	1.156	1.047	0.737	
5500	100	802.11a	OFDM	20	13.5	13.30	-0.03	0 mm	1	6905	6	top	98.4	0.003	1.047	1.017	0.003	
5500	100	802.11a	OFDM	20	13.5	13.30	0.08	0 mm	1	6905	6	bottom	98.4	0.061	1.047	1.017	0.065	
5500	100	802.11a	OFDM	20	13.5	13.30	0.02	0 mm	1	6905	6	right	98.4	0.232	1.047	1.017	0.247	
5500	100	802.11a	OFDM	20	13.5	13.30	-0.06	0 mm	1	6905	6	left	98.4	0.003	1.047	1.017	0.003	
5720	144	802.11a	OFDM	20	13.5	13.19	-0.03	4 mm	2	6905	6	back	99.0	0.411	1.074	1.010	0.445	
5530	106	802.11ac	OFDM	80	7.5	6.77	0.08	0 mm	2	7937	29.3	back	95.8	0.760	1.183	1.044	0.939	
5690	138	802.11ac	OFDM	80	7.5	6.73	-0.07	0 mm	2	7937	29.3	back	95.8	0.663	1.194	1.044	0.827	
5720	144	802.11a	OFDM	20	13.5	13.19	-0.14	0 mm	2	6905	6	top	99.0	0.003	1.074	1.010	0.003	
5720	144	802.11a	OFDM	20	13.5	13.19	0.00	0 mm	2	6905	6	bottom	99.0	0.197	1.074	1.010	0.214	
5720	144	802.11a	OFDM	20	13.5	13.19	-0.15	0 mm	2	6905	6	right	99.0	0.005	1.074	1.010	0.005	
5720	144	802.11a	OFDM	20	13.5	13.19	-0.11	0 mm	2	6905	6	left	99.0	0.017	1.074	1.010	0.018	
5785	157	802.11a	OFDM	20	13.5	13.33	0.16	4 mm	1	6905	6	back	98.4	0.333	1.040	1.017	0.352	
5775	155	802.11ac	OFDM	80	8.5	7.83	0.20	0 mm	1	7937	29.3	back	95.5	0.717	1.167	1.047	0.876	
5785	157	802.11a	OFDM	20	13.5	13.33	-0.02	0 mm	1	6905	6	top	98.4	0.006	1.040	1.017	0.006	
5785	157	802.11a	OFDM	20	13.5	13.33	0.11	0 mm	1	6905	6	bottom	98.4	0.062	1.040	1.017	0.065	
5785	157	802.11a	OFDM	20	13.5	13.33	0.05	0 mm	1	6905	6	right	98.4	0.207	1.040	1.017	0.219	
5785	157	802.11a	OFDM	20	13.5	13.33	0.02	0 mm	1	6905	6	left	98.4	0.005	1.040	1.017	0.005	
5745	149	802.11a	OFDM	20	13.5	12.49	-0.18	4 mm	2	6905	6	back	99.0	0.334	1.262	1.010	0.426	
5775	155	802.11ac	OFDM	80	7.5	7.03	-0.05	0 mm	2	7937	29.3	back	95.8	0.608	1.114	1.044	0.707	
5745	149	802.11a	OFDM	20	13.5	12.49	-0.09	0 mm	2	6905	6	top	99.0	0.005	1.262	1.010	0.006	
5745	149	802.11a	OFDM	20	13.5	12.49	0.15	0 mm	2	6905	6	bottom	99.0	0.166	1.262	1.010	0.211	
5745	149	802.11a	OFDM	20	13.5	12.49	-0.11	0 mm	2	6905	6	right	99.0	0.004	1.262	1.010	0.005	
5745	149	802.11a	OFDM	20	13.5	12.49	0.04	0 mm	2	6905	6	left	99.0	0.015	1.262	1.010	0.019	
5290	58	802.11ac	OFDM	80	7.5	7.02	0.06	0 mm	2	7937	29.3	back	95.8	0.729	1.117	1.044	0.850	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body										
Spatial Peak								1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population								averaged over 1 gram										

Note: Blue entries represent variability measurement

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Table 10-8
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	10.0	9.45	-0.07	0 mm	6905	1	back	1:1	0.098	1.135	0.111	A10
2441	39	Bluetooth	FHSS	10.0	9.45	0.03	0 mm	6905	1	bottom	1:1	0.009	1.135	0.010	
2441	39	Bluetooth	FHSS	10.0	9.45	0.14	0 mm	6905	1	right	1:1	0.023	1.135	0.026	
2441	39	Bluetooth	FHSS	10.0	9.45	-0.15	0 mm	6905	1	left	1:1	0.000	1.135	0.000	
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:

- The test data reported are the worst-case SAR values according to test procedures specified in KDB 616217 D04v01r01, and FCC KDB Publication 447498 D01v05.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- 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.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v05.
- 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.
- 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. SAR tests were required for top, right, and left edges for the main antenna, bottom and right edges for BT/WLAN antenna 1 and bottom, right and left for WLAN antenna 2. Additionally, top and left edge was tested for WLAN antenna 1, top edge for WLAN antenna 2 and left edge for BT per the manufacturer's request.

UMTS Notes:

- UMTS mode in was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03. HSPA SAR was not required per 3G Test Reduction Procedures.
- 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.

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LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r03. The general test procedures used for testing can be found in Section 7.5.4.
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.
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 KDB Publication 941225 D05Av01r01, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.

WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01 Wi-Fi SAR v02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.6.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01DR02-41929 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg. See Section 7.6.5 for more information.
3. Per KDB Publication 248227 D01 Wi-Fi SAR v02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498. Please see Section 11 for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.

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11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v05r02 are applicable to devices with built-in unlicensed transmitters such as 802.11 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 physical test configuration is ≤ 1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1-g or 10-g SAR.

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11.3 Body Simultaneous Transmission Analysis

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

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	0.955	1.070	0.463	See Note 1	1.418	1.533	See Note 1	0.01	0.01	0.03
	Top	1.027	0.003	0.002	1.030	1.029	0.005	1.032	N/A	N/A	N/A
	Bottom	0.400	0.220	0.127	0.620	0.527	0.347	0.747	N/A	N/A	N/A
	Right	0.312	0.245	0.070	0.557	0.382	0.315	0.627	N/A	N/A	N/A
	Left	0.176	0.027	0.007	0.203	0.183	0.034	0.210	N/A	N/A	N/A
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	1.082	1.070	0.463	See Note 1	1.545	1.533	See Note 1	0.02	0.01	0.03
	Top	0.627	0.003	0.002	0.630	0.629	0.005	0.632	N/A	N/A	N/A
	Bottom	0.400	0.220	0.127	0.620	0.527	0.347	0.747	N/A	N/A	N/A
	Right	0.242	0.245	0.070	0.487	0.312	0.315	0.557	N/A	N/A	N/A
	Left	0.992	0.027	0.007	1.019	0.999	0.034	1.026	N/A	N/A	N/A
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	1.090	1.070	0.463	See Note 1	1.553	1.533	See Note 1	0.02	0.01	0.03
	Top	0.415	0.003	0.002	0.418	0.417	0.005	0.420	N/A	N/A	N/A
	Bottom	0.400	0.220	0.127	0.620	0.527	0.347	0.747	N/A	N/A	N/A
	Right	0.065	0.245	0.070	0.310	0.135	0.315	0.380	N/A	N/A	N/A
	Left	0.488	0.027	0.007	0.515	0.495	0.034	0.522	N/A	N/A	N/A
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	0.715	1.070	0.463	See Note 1	1.178	1.533	See Note 1	0.01	0.01	0.03
	Top	1.066	0.003	0.002	1.069	1.068	0.005	1.071	N/A	N/A	N/A
	Bottom	0.400	0.220	0.127	0.620	0.527	0.347	0.747	N/A	N/A	N/A
	Right	0.112	0.245	0.070	0.357	0.182	0.315	0.427	N/A	N/A	N/A
	Left	0.085	0.027	0.007	0.112	0.092	0.034	0.119	N/A	N/A	N/A
Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	1.037	1.070	0.463	See Note 1	1.500	1.533	See Note 1	0.01	0.01	0.03
	Top	0.823	0.003	0.002	0.826	0.825	0.005	0.828	N/A	N/A	N/A
	Bottom	0.400	0.220	0.127	0.620	0.527	0.347	0.747	N/A	N/A	N/A
	Right	0.194	0.245	0.070	0.439	0.264	0.315	0.509	N/A	N/A	N/A
	Left	0.270	0.027	0.007	0.297	0.277	0.034	0.304	N/A	N/A	N/A
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	0.620	1.070	0.463	See Note 1	1.083	1.533	See Note 1	0.01	0.01	0.03
	Top	0.206	0.003	0.002	0.209	0.208	0.005	0.211	N/A	N/A	N/A
	Bottom	0.400	0.220	0.127	0.620	0.527	0.347	0.747	N/A	N/A	N/A
	Right	0.275	0.245	0.070	0.520	0.345	0.315	0.590	N/A	N/A	N/A
	Left	1.017	0.027	0.007	1.044	1.024	0.034	1.051	N/A	N/A	N/A

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Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	1.100	1.070	0.463	See Note 1	1.563	1.533	See Note 1	0.02	0.01	0.03
	Top	0.456	0.003	0.002	0.459	0.458	0.005	0.461	N/A	N/A	N/A
	Bottom	0.400	0.220	0.127	0.620	0.527	0.347	0.747	N/A	N/A	N/A
	Right	0.057	0.245	0.070	0.302	0.127	0.315	0.372	N/A	N/A	N/A
	Left	0.604	0.027	0.007	0.631	0.611	0.034	0.638	N/A	N/A	N/A

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

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	0.955	0.926	1.007	See Note 1	See Note 1	See Note 1	See Note 1	0.01	0.01	0.04
	Top	1.027	0.006	0.006	1.033	1.033	0.012	1.039	N/A	N/A	N/A
	Bottom	0.400	0.137	0.250	0.537	0.650	0.387	0.787	N/A	N/A	N/A
	Right	0.312	0.355	0.020	0.667	0.332	0.375	0.687	N/A	N/A	N/A
	Left	0.176	0.005	0.032	0.181	0.208	0.037	0.213	N/A	N/A	N/A
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	1.082	0.926	1.007	See Note 1	See Note 1	See Note 1	See Note 1	0.02	0.01	0.04
	Top	0.627	0.006	0.006	0.633	0.633	0.012	0.639	N/A	N/A	N/A
	Bottom	0.400	0.137	0.250	0.537	0.650	0.387	0.787	N/A	N/A	N/A
	Right	0.242	0.355	0.020	0.597	0.262	0.375	0.617	N/A	N/A	N/A
	Left	0.992	0.005	0.032	0.997	1.024	0.037	1.029	N/A	N/A	N/A
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	1.090	0.926	1.007	See Note 1	See Note 1	See Note 1	See Note 1	0.01	0.01	0.04
	Top	0.415	0.006	0.006	0.421	0.421	0.012	0.427	N/A	N/A	N/A
	Bottom	0.400	0.137	0.250	0.537	0.650	0.387	0.787	N/A	N/A	N/A
	Right	0.065	0.355	0.020	0.420	0.085	0.375	0.440	N/A	N/A	N/A
	Left	0.488	0.005	0.032	0.493	0.520	0.037	0.525	N/A	N/A	N/A
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	0.715	0.926	1.007	See Note 1	See Note 1	See Note 1	See Note 1	0.01	0.01	0.04
	Top	1.066	0.006	0.006	1.072	1.072	0.012	1.078	N/A	N/A	N/A
	Bottom	0.400	0.137	0.250	0.537	0.650	0.387	0.787	N/A	N/A	N/A
	Right	0.112	0.355	0.020	0.467	0.132	0.375	0.487	N/A	N/A	N/A
	Left	0.085	0.005	0.032	0.090	0.117	0.037	0.122	N/A	N/A	N/A
Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	1.037	0.926	1.007	See Note 1	See Note 1	See Note 1	See Note 1	0.01	0.01	0.04
	Top	0.823	0.006	0.006	0.829	0.829	0.012	0.835	N/A	N/A	N/A
	Bottom	0.400	0.137	0.250	0.537	0.650	0.387	0.787	N/A	N/A	N/A
	Right	0.194	0.355	0.020	0.549	0.214	0.375	0.569	N/A	N/A	N/A
	Left	0.270	0.005	0.032	0.275	0.302	0.037	0.307	N/A	N/A	N/A

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Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	0.620	0.926	1.007	1.546	See Note 1	See Note 1	See Note 1	0.01	0.01	0.04
	Top	0.206	0.006	0.006	0.212	0.212	0.012	0.218	N/A	N/A	N/A
	Bottom	0.400	0.137	0.250	0.537	0.650	0.387	0.787	N/A	N/A	N/A
	Right	0.275	0.355	0.020	0.630	0.295	0.375	0.650	N/A	N/A	N/A
	Left	1.017	0.005	0.032	1.022	1.049	0.037	1.054	N/A	N/A	N/A
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
SAR	Back	1.100	0.926	1.007	See Note 1	See Note 1	See Note 1	See Note 1	0.01	0.01	0.04
	Top	0.456	0.006	0.006	0.462	0.462	0.012	0.468	N/A	N/A	N/A
	Bottom	0.400	0.137	0.250	0.537	0.650	0.387	0.787	N/A	N/A	N/A
	Right	0.057	0.355	0.020	0.412	0.077	0.375	0.432	N/A	N/A	N/A
	Left	0.604	0.005	0.032	0.609	0.636	0.037	0.641	N/A	N/A	N/A

Table 11-3
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)	Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
SAR	Back	0.955	0.111	1.066	SAR	Back	1.082	0.111	1.193
	Top	1.027	0.400	1.427		Top	0.627	0.400	1.027
	Bottom	0.400	0.010	0.410		Bottom	0.400	0.010	0.410
	Right	0.312	0.026	0.338		Right	0.242	0.026	0.268
	Left	0.176	0.000	0.176		Left	0.992	0.000	0.992
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
SAR	Back	1.090	0.111	1.201	SAR	Back	0.715	0.111	0.826
	Top	0.415	0.400	0.815		Top	1.066	0.400	1.466
	Bottom	0.400	0.010	0.410		Bottom	0.400	0.010	0.410
	Right	0.065	0.026	0.091		Right	0.112	0.026	0.138
	Left	0.488	0.000	0.488		Left	0.085	0.000	0.085
Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
SAR	Back	1.037	0.111	1.148	SAR	Back	0.620	0.111	0.731
	Top	0.823	0.400	1.223		Top	0.206	0.400	0.606
	Bottom	0.400	0.010	0.410		Bottom	0.400	0.010	0.410
	Right	0.194	0.026	0.220		Right	0.275	0.026	0.301
	Left	0.270	0.000	0.270		Left	1.017	0.000	1.017
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
SAR	Back	1.100	0.111	1.211	SAR	Back	1.100	0.111	1.211
	Top	0.456	0.400	0.856		Top	0.456	0.400	0.856
	Bottom	0.400	0.010	0.410		Bottom	0.400	0.010	0.410
	Right	0.057	0.026	0.083		Right	0.057	0.026	0.083
	Left	0.604	0.000	0.604		Left	0.604	0.000	0.604

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Table 11-4
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Body at 0.4 cm)

Configuration	Mode	3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
Back Side	UMTS 850	<0.955	0.834	0.257	See Note 1	<1.212	1.091	See Note 1	<0.01	<0.01	0.02
Back Side	UMTS 1750	<1.082	0.834	0.257	See Note 1	<1.339	1.091	See Note 1	<0.01	<0.01	0.02
Back Side	UMTS 1900	<1.090	0.834	0.257	See Note 1	<1.347	1.091	See Note 1	<0.01	<0.01	0.02
Back Side	LTE Band 12	<0.715	0.834	0.257	<1.549	<0.972	1.091	See Note 1	<0.01	<0.01	0.02
Back Side	LTE Band 5 (Cell)	<1.037	0.834	0.257	See Note 1	<1.294	1.091	See Note 1	<0.01	<0.01	0.02
Back Side	LTE Band 4 (AWS)	<0.620	0.834	0.257	<1.454	<0.877	1.091	See Note 1	<0.01	<0.00	0.02
Back Side	LTE Band 2 (PCS)	<1.100	0.834	0.257	See Note 1	<1.357	1.091	See Note 1	<0.01	<0.01	0.02

Table 11-5
Simultaneous Transmission Scenario with 5 GHz WLAN (Body at 0.4 cm)

Configuration	Mode	3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				SPLSR		
		1	2	3	1+2	1+3	2+3	1+2+3	1+2	1+3	2+3
Back Side	UMTS 850	<0.955	0.422	0.705	<1.377	See Note 1	1.127	See Note 1	<0.01	<0.01	0.02
Back Side	UMTS 1750	<1.082	0.422	0.705	<1.504	See Note 1	1.127	See Note 1	<0.01	<0.01	0.02
Back Side	UMTS 1900	<1.090	0.422	0.705	<1.512	See Note 1	1.127	See Note 1	<0.01	<0.01	0.02
Back Side	LTE Band 12	<0.715	0.422	0.705	<1.137	<1.420	1.127	See Note 1	<0.01	<0.01	0.02
Back Side	LTE Band 5 (Cell)	<1.037	0.422	0.705	<1.459	See Note 1	1.127	See Note 1	<0.01	<0.01	0.02
Back Side	LTE Band 4 (AWS)	<0.620	0.422	0.705	<1.042	<1.325	1.127	See Note 1	<0.01	<0.01	0.02
Back Side	LTE Band 2 (PCS)	<1.100	0.422	0.705	<1.522	See Note 1	1.127	See Note 1	<0.01	<0.01	0.02

Table 11-6
Simultaneous Transmission Scenario with 2.4 GHz WLAN Back Side (Body at 2.4 cm)

Configuration	Mode	3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	1+2	1+3	2+3	1+2+3
Back Side	UMTS 850	0.330	<0.834	<0.257	<1.164	<0.587	<1.091	<1.421
Back Side	UMTS 1750	0.221	<0.834	<0.257	<1.055	<0.478	<1.091	<1.312
Back Side	UMTS 1900	0.203	<0.834	<0.257	<1.037	<0.460	<1.091	<1.294
Back Side	LTE Band 12	0.080	<0.834	<0.257	<0.914	<0.337	<1.091	<1.171
Back Side	LTE Band 5 (Cell)	0.301	<0.834	<0.257	<1.135	<0.558	<1.091	<1.392
Back Side	LTE Band 4 (AWS)	0.229	<0.834	<0.257	<1.063	<0.486	<1.091	<1.320
Back Side	LTE Band 2 (PCS)	0.204	<0.834	<0.257	<1.038	<0.461	<1.091	<1.295

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Table 11-7
Simultaneous Transmission Scenario with 2.4 GHz WLAN Top Edge (Body at 2.4 cm)

Configuration	Mode	3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	1+2	1+3	2+3	1+2+3
Top Edge	UMTS 850	0.406	<0.003	<0.002	<0.409	<0.408	<0.005	<0.411
Top Edge	UMTS 1750	0.222	<0.003	<0.002	<0.225	<0.224	<0.005	<0.227
Top Edge	UMTS 1900	0.252	<0.003	<0.002	<0.255	<0.254	<0.005	<0.257
Top Edge	LTE Band 12	0.099	<0.003	<0.002	<0.102	<0.101	<0.005	<0.104
Top Edge	LTE Band 5 (Cell)	0.357	<0.003	<0.002	<0.360	<0.359	<0.005	<0.362
Top Edge	LTE Band 4 (AWS)	0.254	<0.003	<0.002	<0.257	<0.256	<0.005	<0.259
Top Edge	LTE Band 2 (PCS)	0.253	<0.003	<0.002	<0.256	<0.255	<0.005	<0.258

Table 11-8
Simultaneous Transmission Scenario with 5 GHz WLAN Back Side (Body at 2.4 cm)

Configuration	Mode	3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	1+2	1+3	2+3	1+2+3
Back Side	UMTS 850	0.330	<0.422	<0.705	<0.752	<1.035	<1.127	<1.457
Back Side	UMTS 1750	0.221	<0.422	<0.705	<0.643	<0.926	<1.127	<1.348
Back Side	UMTS 1900	0.203	<0.422	<0.705	<0.625	<0.908	<1.127	<1.330
Back Side	LTE Band 12	0.080	<0.422	<0.705	<0.502	<0.785	<1.127	<1.207
Back Side	LTE Band 5 (Cell)	0.301	<0.422	<0.705	<0.723	<1.006	<1.127	<1.428
Back Side	LTE Band 4 (AWS)	0.229	<0.422	<0.705	<0.651	<0.934	<1.127	<1.356
Back Side	LTE Band 2 (PCS)	0.204	<0.422	<0.705	<0.626	<0.909	<1.127	<1.331

Table 11-9
Simultaneous Transmission Scenario with 5 GHz WLAN Top Edge (Body at 2.4 cm)

Configuration	Mode	3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	1+2	1+3	2+3	1+2+3
Top Edge	UMTS 850	0.406	<0.006	<0.006	<0.412	<0.412	<0.012	<0.418
Top Edge	UMTS 1750	0.222	<0.006	<0.006	<0.228	<0.228	<0.012	<0.234
Top Edge	UMTS 1900	0.252	<0.006	<0.006	<0.258	<0.258	<0.012	<0.264
Top Edge	LTE Band 12	0.099	<0.006	<0.006	<0.105	<0.105	<0.012	<0.111
Top Edge	LTE Band 5 (Cell)	0.357	<0.006	<0.006	<0.363	<0.363	<0.012	<0.369
Top Edge	LTE Band 4 (AWS)	0.254	<0.006	<0.006	<0.260	<0.260	<0.012	<0.266
Top Edge	LTE Band 2 (PCS)	0.253	<0.006	<0.006	<0.259	<0.259	<0.012	<0.265

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Table 11-10
Simultaneous Transmission Scenario with Bluetooth Back Side (Body at 2.4 cm)

Configuration	Mode	3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Back Side	UMTS 850	0.330	<0.111	<0.441
Back Side	UMTS 1750	0.221	<0.111	<0.332
Back Side	UMTS 1900	0.203	<0.111	<0.314
Back Side	LTE Band 12	0.080	<0.111	<0.191
Back Side	LTE Band 5 (Cell)	0.301	<0.111	<0.412
Back Side	LTE Band 4 (AWS)	0.229	<0.111	<0.340
Back Side	LTE Band 2 (PCS)	0.204	<0.111	<0.315

Table 11-11
Simultaneous Transmission Scenario with Bluetooth Top Edge (Body at 2.4 cm)

Configuration	Mode	3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Top Edge	UMTS 850	0.406	0.400	0.806
Top Edge	UMTS 1750	0.222	0.400	0.622
Top Edge	UMTS 1900	0.252	0.400	0.652
Top Edge	LTE Band 12	0.099	0.400	0.499
Top Edge	LTE Band 5 (Cell)	0.357	0.400	0.757
Top Edge	LTE Band 4 (AWS)	0.254	0.400	0.654
Top Edge	LTE Band 2 (PCS)	0.253	0.400	0.653

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was less than 0.04 per FCC KDB 447498 D01v05. See Section 11.4 for detailed SPLS ratio analysis.
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.
3. For SAR summation for body (back side at 4 mm), UMTS/LTE SAR values for 0 mm were used since the 0 mm test distance for UMTS/LTE SAR values were more conservative. "<" denotes that the 0 mm UMTS/LTE SAR values were used for summation purposes.
4. For SAR summation for body (back side at 24 mm), WLAN SAR values for 4 mm (back side) were used since the 4 mm (back side) test distance for WLAN SAR values were more conservative. Bluetooth SAR values for 0 mm were used since the 0 mm test distance for Bluetooth SAR values were more conservative. "<" denotes that the 4 mm WLAN SAR and 0 mm for Bluetooth SAR values were used for summation purposes.
5. For SAR summation for body (top edge at 24 mm), WLAN SAR values for 0 mm were used since the 0 mm test distance for WLAN SAR values were more conservative. "<" denotes that the 0 mm WLAN SAR values were used for summation purposes.
6. MIMO Body SAR is determined by the sum of 1g single transmission chain SAR value because the summation represents higher output power and yields more conservative result per KDB 248227 D01Wi-Fi SAR v02.

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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.

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

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

Table 11-12
Peak SAR Locations for Body Back Side at 0 mm

Mode/Band	x (mm)	y (mm)
Reduced 2.4 GHz WLAN Ant 1	16.00	76.00
Reduced 2.4 GHz WLAN Ant 2	-39.00	110.00
Reduced 5 GHz WLAN Ant 1	20.00	68.00
Reduced 5 GHz WLAN Ant 2	-43.00	108.00
Reduced UMTS 850 MHz	-61.50	-108.00
Max UMTS 850 MHz	-62.00	-133.00
Reduced UMTS 1750 MHz	-15.00	-116.00
Reduced UMTS 1900 MHz	-84.00	-102.00
Max UMTS 1900 MHz	-73.50	-106.50
Reduced LTE B12	-38.50	-91.00
Max LTE B13	-74.50	-130.50
Reduced LTE B5	-62.00	-120.00
Max LTE B5	-61.00	-127.50
Reduced LTE B4	-69.00	-120.50
Max LTE B4	-82.00	-114.00
Reduced LTE B2	-84.00	-105.00

Table 11-13
Peak SAR Locations for Body Back Side at 4 mm

Mode/Band	x (mm)	y (mm)
Max 2.4 GHz WLAN Ant 1	10.80	77.20
Max 2.4 GHz WLAN Ant 2	-44.00	105.00
Max 5 GHz WLAN Ant 1	18.00	78.00
Max 5 GHz WLAN Ant 2	-43.00	114.00

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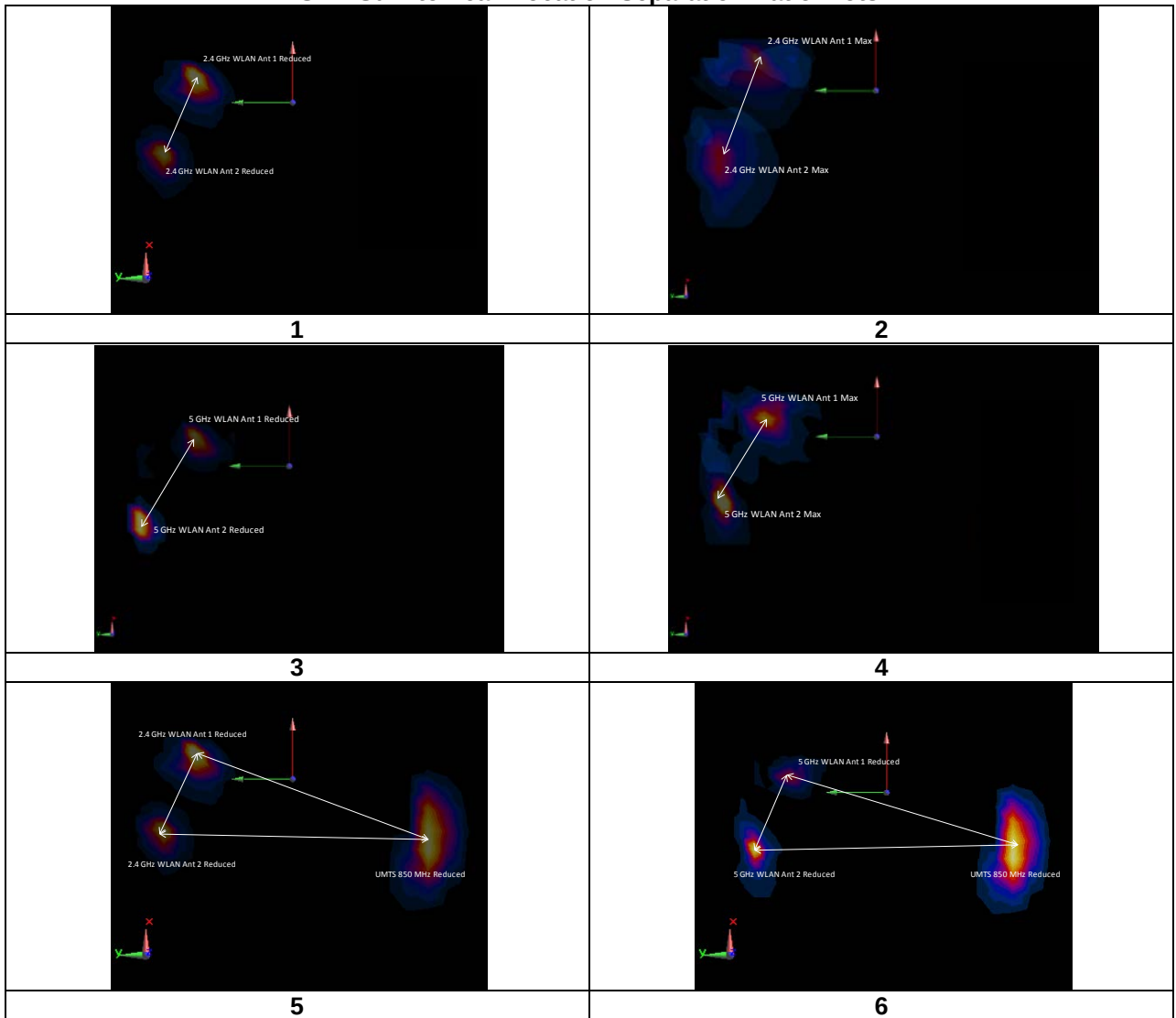
Table 11-14
SAR Sum to Peak Location Separation Ratio Calculations

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	(a+b) ^{1.5} /D _{a-b}	
Reduced 2.4 GHz WLAN Ant 1	Reduced 2.4 GHz WLAN Ant 2	1.070	0.463	1.533	64.66	0.03	1
Max 2.4 GHz WLAN Ant 1	Max 2.4 GHz WLAN Ant 2	0.834	0.257	1.091	61.45	0.02	2
Reduced 5 GHz WLAN Ant 1	Reduced 5 GHz WLAN Ant 2	0.926	1.007	1.933	74.63	0.04	3
Max 5 GHz WLAN Ant 1	Max 5 GHz WLAN Ant 2	0.422	0.705	1.127	70.83	0.02	4
Reduced UMTS 850 MHz	Reduced 2.4 GHz WLAN Ant 1	0.955	1.070	2.025	199.66	0.01	5
Reduced UMTS 850 MHz	Reduced 2.4 GHz WLAN Ant 2	0.955	0.463	1.418	219.16	0.01	
Reduced UMTS 850 MHz	Reduced 5 GHz WLAN Ant 1	0.955	0.926	1.881	193.95	0.01	6
Reduced UMTS 850 MHz	Reduced 5 GHz WLAN Ant 2	0.955	1.007	1.962	216.79	0.01	
Max 2.4 GHz WLAN Ant 1	Reduced UMTS 850 MHz	0.834	<0.955	<1.789	198.81	<0.01	7
Max 2.4 GHz WLAN Ant 2	Reduced UMTS 850 MHz	0.257	<0.955	<1.212	213.72	<0.01	
Max 5 GHz WLAN Ant 1	Reduced UMTS 850 MHz	0.422	<0.955	<1.377	202.28	<0.01	8
Max 5 GHz WLAN Ant 2	Reduced UMTS 850 MHz	0.705	<0.955	<1.660	222.77	<0.01	
Reduced UMTS 1750 MHz	Reduced 2.4 GHz WLAN Ant 1	1.082	1.070	2.152	194.49	0.02	9
Reduced UMTS 1750 MHz	Reduced 2.4 GHz WLAN Ant 2	1.082	0.463	1.545	227.27	0.01	
Reduced UMTS 1750 MHz	Reduced 5 GHz WLAN Ant 1	1.082	0.926	2.008	187.30	0.02	10
Reduced UMTS 1750 MHz	Reduced 5 GHz WLAN Ant 2	1.082	1.007	2.089	225.74	0.01	
Max 2.4 GHz WLAN Ant 1	Reduced UMTS 1750 MHz	0.834	<1.082	<1.916	194.92	<0.01	11
Max 2.4 GHz WLAN Ant 2	Reduced UMTS 1750 MHz	0.257	<1.082	<1.339	222.90	<0.01	
Max 5 GHz WLAN Ant 1	Reduced UMTS 1750 MHz	0.422	<1.082	<1.504	196.79	<0.01	12
Max 5 GHz WLAN Ant 2	Reduced UMTS 1750 MHz	0.705	<1.082	<1.787	231.70	<0.01	
Reduced UMTS 1900 MHz	Reduced 2.4 GHz WLAN Ant 1	1.090	1.070	2.160	204.17	0.02	13
Reduced UMTS 1900 MHz	Reduced 2.4 GHz WLAN Ant 2	1.090	0.463	1.553	216.72	0.01	
Reduced UMTS 1900 MHz	Reduced 5 GHz WLAN Ant 1	1.090	0.926	2.016	199.29	0.01	14
Reduced UMTS 1900 MHz	Reduced 5 GHz WLAN Ant 2	1.090	1.007	2.097	213.97	0.01	
Max 2.4 GHz WLAN Ant 1	Reduced UMTS 1900 MHz	0.834	<1.090	<1.924	202.73	<0.01	15
Max 2.4 GHz WLAN Ant 2	Reduced UMTS 1900 MHz	0.257	<1.090	<1.347	210.83	<0.01	
Max 5 GHz WLAN Ant 1	Reduced UMTS 1900 MHz	0.422	<1.090	<1.512	206.89	<0.01	16
Max 5 GHz WLAN Ant 2	Reduced UMTS 1900 MHz	0.705	<1.090	<1.795	219.86	<0.01	
Reduced LTE B12	Reduced 2.4 GHz WLAN Ant 1	0.715	1.070	1.785	175.67	0.01	17
Reduced LTE B12	Reduced 2.4 GHz WLAN Ant 2	0.715	0.463	1.178	201.00	0.01	
Reduced LTE B12	Reduced 5 GHz WLAN Ant 1	0.715	0.926	1.641	169.42	0.01	18
Reduced LTE B12	Reduced 5 GHz WLAN Ant 2	0.715	1.007	1.722	199.05	0.01	
Max 2.4 GHz WLAN Ant 1	Reduced LTE B12	0.834	<0.715	<1.549	175.28	<0.01	19
Max 2.4 GHz WLAN Ant 2	Reduced LTE B12	0.257	<0.715	<0.972	196.08	<0.01	
Max 5 GHz WLAN Ant 1	Reduced LTE B12	0.422	<0.715	<1.137	178.19	<0.01	20
Max 5 GHz WLAN Ant 2	Reduced LTE B12	0.705	<0.715	<1.420	205.05	<0.01	
Reduced LTE B5	Reduced 2.4 GHz WLAN Ant 1	1.037	1.070	2.107	210.95	0.01	21
Reduced LTE B5	Reduced 2.4 GHz WLAN Ant 2	1.037	0.463	1.500	231.15	0.01	
Reduced LTE B5	Reduced 5 GHz WLAN Ant 1	1.037	0.926	1.963	205.11	0.01	22
Reduced LTE B5	Reduced 5 GHz WLAN Ant 2	1.037	1.007	2.044	228.79	0.01	
Max 2.4 GHz WLAN Ant 1	Reduced LTE B5	0.834	<1.037	<1.871	210.21	<0.01	23
Max 2.4 GHz WLAN Ant 2	Reduced LTE B5	0.257	<1.037	<1.294	225.72	<0.01	
Max 5 GHz WLAN Ant 1	Reduced LTE B5	0.422	<1.037	<1.459	213.55	<0.01	24
Max 5 GHz WLAN Ant 2	Reduced LTE B5	0.705	<1.037	<1.742	234.77	<0.01	
Reduced LTE B4	Reduced 2.4 GHz WLAN Ant 1	0.620	1.070	1.690	214.10	0.01	25
Reduced LTE B4	Reduced 2.4 GHz WLAN Ant 2	0.620	0.463	1.083	232.44	0.01	
Reduced LTE B4	Reduced 5 GHz WLAN Ant 1	0.620	0.926	1.546	208.45	0.01	26
Reduced LTE B4	Reduced 5 GHz WLAN Ant 2	0.620	1.007	1.627	229.97	0.01	
Max 2.4 GHz WLAN Ant 1	Reduced LTE B4	0.834	<0.620	<1.454	213.20	<0.01	27
Max 2.4 GHz WLAN Ant 2	Reduced LTE B4	0.257	<0.620	<0.877	226.88	<0.00	
Max 5 GHz WLAN Ant 1	Reduced LTE B4	0.422	<0.620	<1.042	216.73	<0.01	28
Max 5 GHz WLAN Ant 2	Reduced LTE B4	0.705	<0.620	<1.325	235.94	<0.01	
Reduced LTE B2	Reduced 2.4 GHz WLAN Ant 1	1.100	1.070	2.170	206.79	0.02	29
Reduced LTE B2	Reduced 2.4 GHz WLAN Ant 2	1.100	0.463	1.563	219.66	0.01	
Reduced LTE B2	Reduced 5 GHz WLAN Ant 1	1.100	0.926	2.026	201.85	0.01	30
Reduced LTE B2	Reduced 5 GHz WLAN Ant 2	1.100	1.007	2.107	216.91	0.01	
Max 2.4 GHz WLAN Ant 1	Reduced LTE B2	0.834	<1.100	<1.934	205.39	<0.01	31
Max 2.4 GHz WLAN Ant 2	Reduced LTE B2	0.257	<1.100	<1.357	213.78	<0.01	
Max 5 GHz WLAN Ant 1	Reduced LTE B2	0.422	<1.100	<1.522	209.51	<0.01	32
Max 5 GHz WLAN Ant 2	Reduced LTE B2	0.705	<1.100	<1.805	222.81	<0.01	

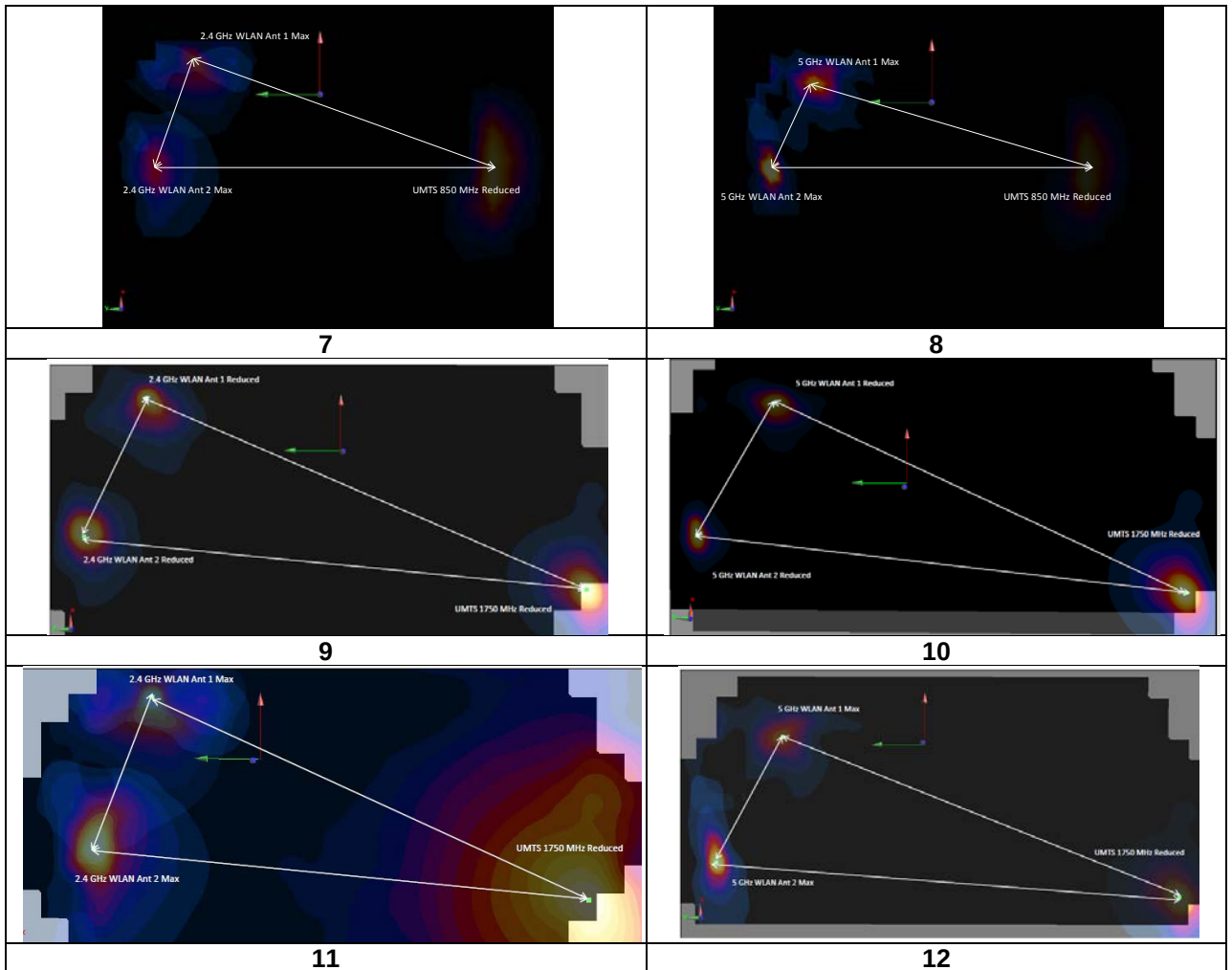
Note: The distances between max and reduced for 2.4 GHz and 5 GHz WLAN are shown in plots 1-4 and also represented on the other plots to show compliance for scenarios when WLAN MIMO could be operating with the main antenna.

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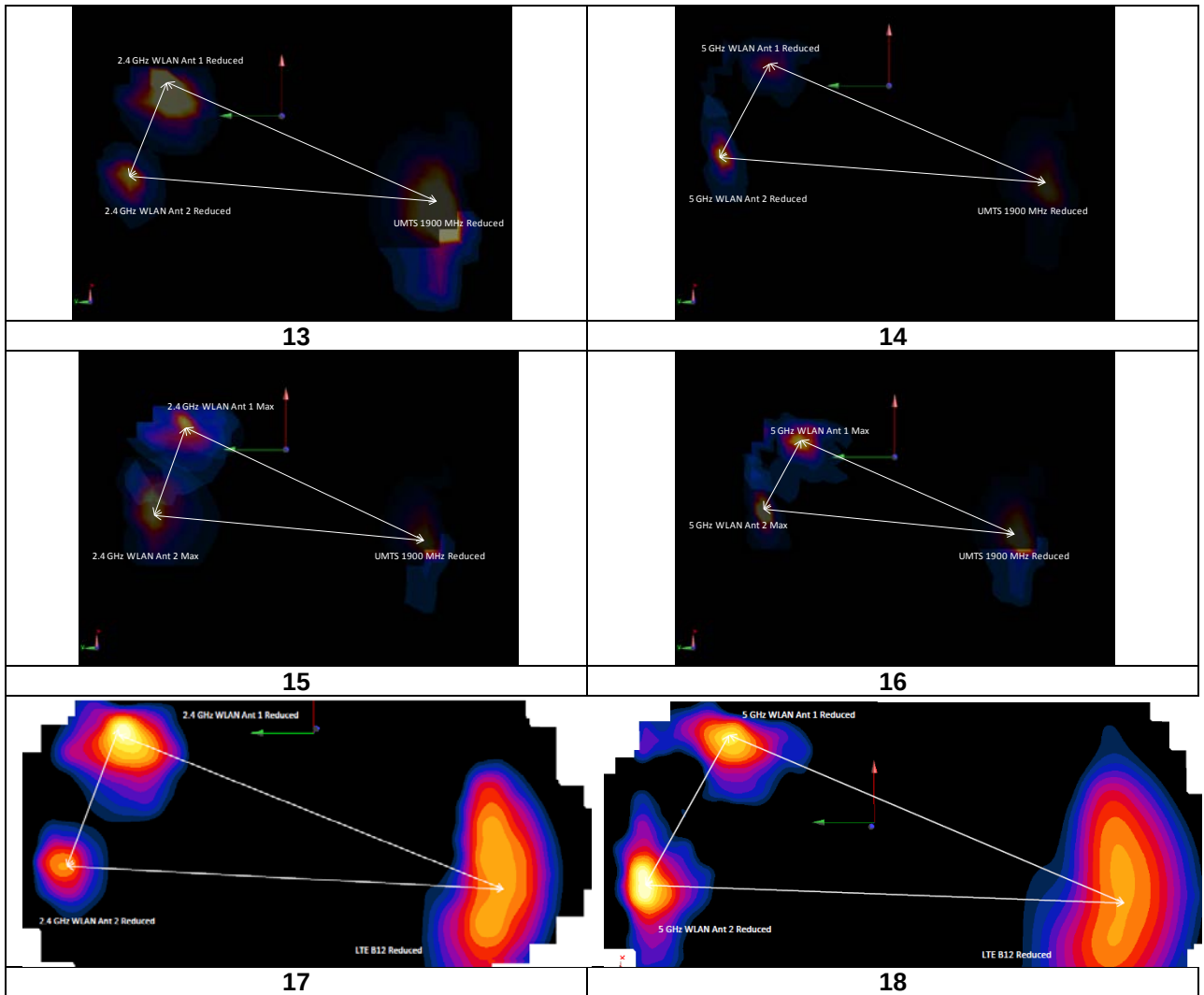
Table 11-15
SAR Sum to Peak Location Separation Ratio Plots

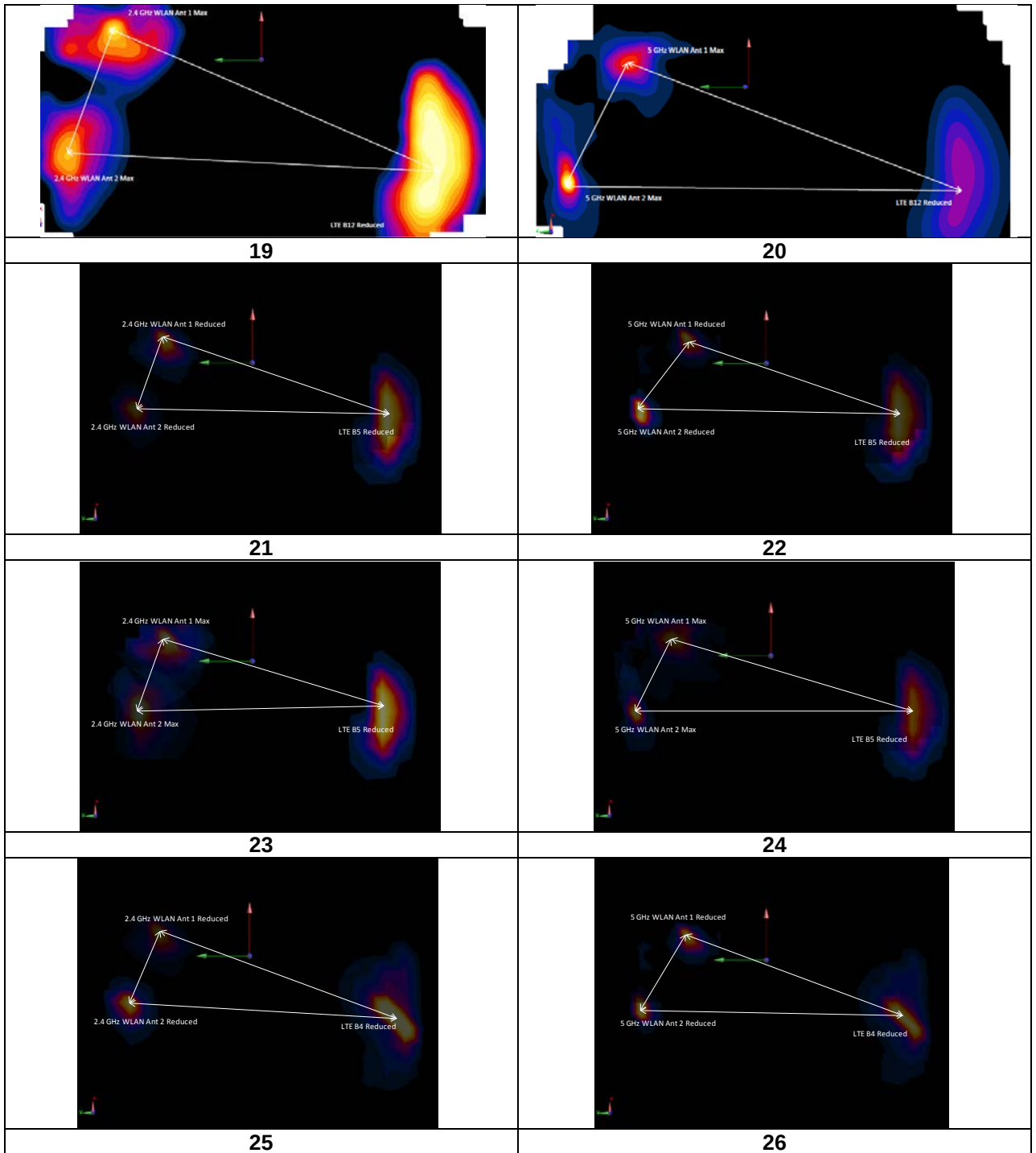


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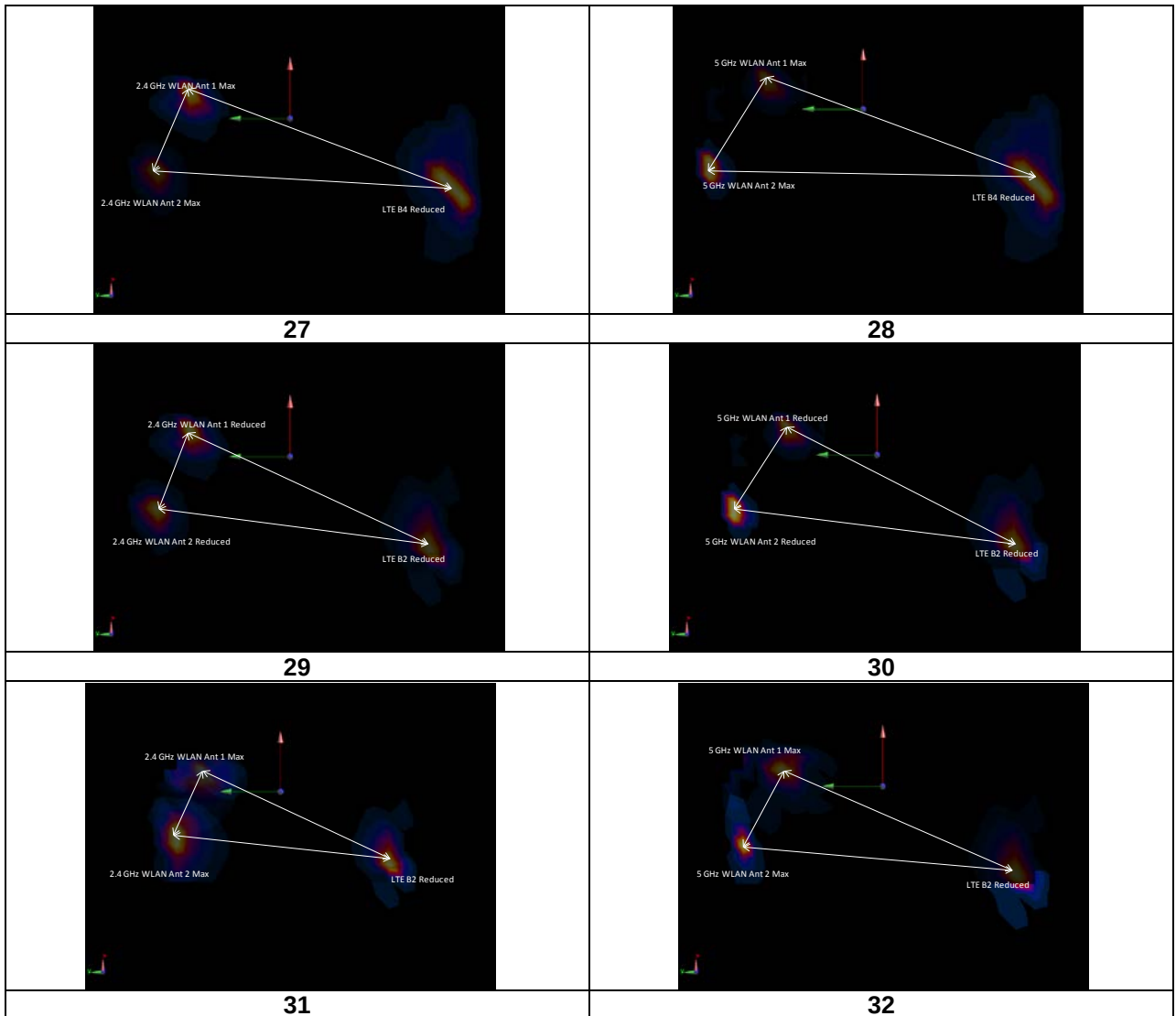


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11.5 Simultaneous Transmission Conclusion

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	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)	
835	836.60	4183	UMTS 850	RMC	N/A	top	0 mm	0.993	0.904	1.10	N/A	N/A	N/A	N/A
1750	1752.50	1862	UMTS 1750	RMC	N/A	back	0 mm	1.080	0.928	1.16	N/A	N/A	N/A	N/A
750	707.50	23095	LTE Band 12	QPSK, 1 RB, 49 RB Offset	N/A	top	0 mm	0.876	0.877	1.00	N/A	N/A	N/A	N/A
1900	1900.00	19100	LTE Band 2 (PCS)	QPSK, 1 RB, 99 RB Offset	N/A	back	0 mm	1.100	0.999	1.10	N/A	N/A	N/A	N/A
2450	2437.00	6	IEEE 802.11b 22 MHz Bandwidth	DSSS , ANT 1	1	back	0 mm	1.020	0.907	1.12	N/A	N/A	N/A	N/A
5300	5290.00	58	IEEE 802.11ac 80 MHz Bandwidth	OFDM , ANT 2	29.3	back	0 mm	0.864	0.729	1.19	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body							
Spatial Peak							1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population							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
Agilent	E8257D	(250kHz-20GHz) Signal Generator	3/15/2015	Annual	3/15/2016	MY45470194
Agilent	8753E	(30kHz-6GHz) Network Analyzer	12/30/2014	Annual	12/30/2015	JP38020182
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	N/A	N/A	N/A	3051A00187
Agilent	8648D	(9kHz-4GHz) Signal Generator	3/15/2015	Annual	3/15/2016	3629U00687
Agilent	E4407B	ESA Spectrum Analyzer	11/24/2014	Annual	11/24/2015	US39040349
Agilent	E4438C	Signal Generator	2/13/2014	Biennial	2/13/2016	MY49070494
Agilent	E4432B	ESG-D Series Signal Generator	3/16/2015	Annual	3/16/2016	US40053896
Agilent	N9020A	MXA Signal Analyzer	10/27/2014	Annual	10/27/2015	US46470561
Agilent	N5182A	MXG Vector Signal Generator	10/28/2014	Annual	10/28/2015	US46240505
Agilent	N5182A	MXG Vector Signal Generator	3/16/2015	Annual	3/16/2016	MY47420651
Agilent	8753ES	S-Parameter Network Analyzer	5/22/2014	Annual	5/22/2015	US39170118
Agilent	E5515C	Wireless Communications Test Set	12/24/2014	Annual	12/24/2015	GB44400860
Agilent	E5515C	Wireless Communications Test Set	11/4/2014	Biennial	11/4/2016	GB43193563
Agilent	E5515C	Wireless Communications Test Set	11/20/2014	Biennial	11/20/2016	GB43163447
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433971
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433972
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433975
Anritsu	ML2495A	Power Meter	10/31/2013	Biennial	10/31/2015	941001
Anritsu	MA2411B	Pulse Power Sensor	11/17/2014	Annual	11/17/2015	1207364
Anritsu	MA2411B	Pulse Power Sensor	11/13/2014	Annual	11/13/2015	1339018
Anritsu	MA2411B	Pulse Power Sensor	11/17/2014	Annual	11/17/2015	1207364
Anritsu	MA2411B	Pulse Power Sensor	11/17/2014	Annual	11/17/2015	1126066
Anritsu	MT8820C	Radio Communication Analyzer	5/6/2014	Annual	5/6/2015	620144419
Anritsu	MT8820C	Radio Communication Analyzer	8/28/2014	Annual	8/28/2015	6201240328
Anritsu	MA24106A	USB Power Sensor	5/15/2014	Annual	5/15/2015	1244524
Anritsu	MA24106A	USB Power Sensor	5/15/2014	Annual	5/15/2015	1244512
COMTECH	AR85729-5/5759B	Solid State Amplifier	CBT	N/A	CBT	M3W1A00-1002
COMTECH	AR85729-5	Solid State Amplifier	CBT	N/A	CBT	M15SA00-009
Control Company	4052	Long Stem Thermometer	9/27/2013	Biennial	9/27/2015	130567447
Control Company	61220-416	Long-Stem Thermometer	4/29/2014	Biennial	4/29/2016	111331323
Control Company	36934-158	Wall-Mounted Thermometer	4/29/2014	Biennial	4/29/2016	122014488
Fisher Scientific	15-077-960	Digital Thermometer	12/4/2013	Biennial	12/4/2015	130764551
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	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
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mitutoyo	CD-6°CSX	Digital Caliper	5/8/2014	Biennial	5/8/2016	13264162
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	6/3/2014	Annual	6/3/2015	108843
Rohde & Schwarz	CMW500	Radio Communication Tester	7/9/2014	Annual	7/9/2015	106578
Rohde & Schwarz	CMW500	Radio Communication Tester	7/22/2014	Annual	7/22/2015	116743
Rohde & Schwarz	CMW500	Radio Communication Tester	9/2/2014	Annual	9/2/2015	111427
Seekonk	NC-100	Torque Wrench	3/18/2014	Biennial	3/18/2016	22313
Seekonk	NC-100	Torque Wrench 5/16", 8" lbs	3/18/2014	Biennial	3/18/2016	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	10/21/2014	Annual	10/21/2015	1091
SPEAG	D750V3	750 MHz Dipole	2/19/2015	Annual	2/19/2016	1046
SPEAG	D835V2	835 MHz SAR Dipole	7/24/2014	Annual	7/24/2015	4d133
SPEAG	D1765V2	1765 MHz SAR Dipole	5/7/2014	Annual	5/7/2015	1008
SPEAG	D1750V2	1750 MHz SAR Dipole	4/15/2015	Annual	4/15/2016	1051
SPEAG	D1900V2	1900 MHz SAR Dipole	4/14/2015	Annual	4/14/2016	5d141
SPEAG	D2450V2	2450 MHz SAR Dipole	8/11/2014	Annual	8/11/2015	719
SPEAG	DSGH2V2	5 GHz SAR Dipole	1/21/2015	Annual	1/21/2016	1057
SPEAG	ES3DV3	SAR Probe	8/20/2014	Annual	8/20/2015	3331
SPEAG	ES3DV3	SAR Probe	1/23/2015	Annual	1/23/2016	3318
SPEAG	ES3DV2	SAR Probe	8/19/2014	Annual	8/19/2015	3022
SPEAG	ES3DV3	SAR Probe	3/19/2015	Annual	3/19/2016	3209
SPEAG	ES3DV3	SAR Probe	9/24/2014	Annual	9/24/2015	3288
SPEAG	ES3DV3	SAR Probe	3/19/2015	Annual	3/19/2016	3319
SPEAG	EX3DV4	SAR Probe	1/22/2015	Annual	1/22/2016	3589
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/31/2014	Annual	10/31/2015	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/14/2015	Annual	1/14/2016	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/12/2014	Annual	8/12/2015	1322
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/13/2015	Annual	3/13/2016	1334
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/18/2014	Annual	9/18/2015	1364
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/13/2015	Annual	3/13/2016	1368
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/17/2014	Annual	9/17/2015	1323
VWR	36934-158	Wall-Mounted Thermometer	8/8/2013	Biennial	8/8/2015	130477877

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 equipment was used within the respective calibration dates.

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14 MEASUREMENT UNCERTAINTIES

Applicable for frequencies less than 3000 MHz:

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

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

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Applicable for frequencies up to 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x i/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	6.55	N	1	1.0	1.0	6.6	6.6	∞
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 E 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 E lectronics	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	12.4	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.7	24.0

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: A3LSMT817T; Type: Portable Tablet; Serial: 6798

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

Medium: 835 Body, Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.983 \text{ S/m}$; $\epsilon_r = 53.227$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 04-30-2015; Ambient Temp: 23.3°C; Tissue Temp: 22.7°C

Probe: ES3DV3 - SN3209; ConvF(6.07, 6.07, 6.07); Calibrated: 3/19/2015;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 3/13/2015

Phantom: SAM v5.0 Left; Type: QD000P40CD; Serial: TP: 1687

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

Mode: UMTS 850, Body SAR, Top Edge, Mid.ch

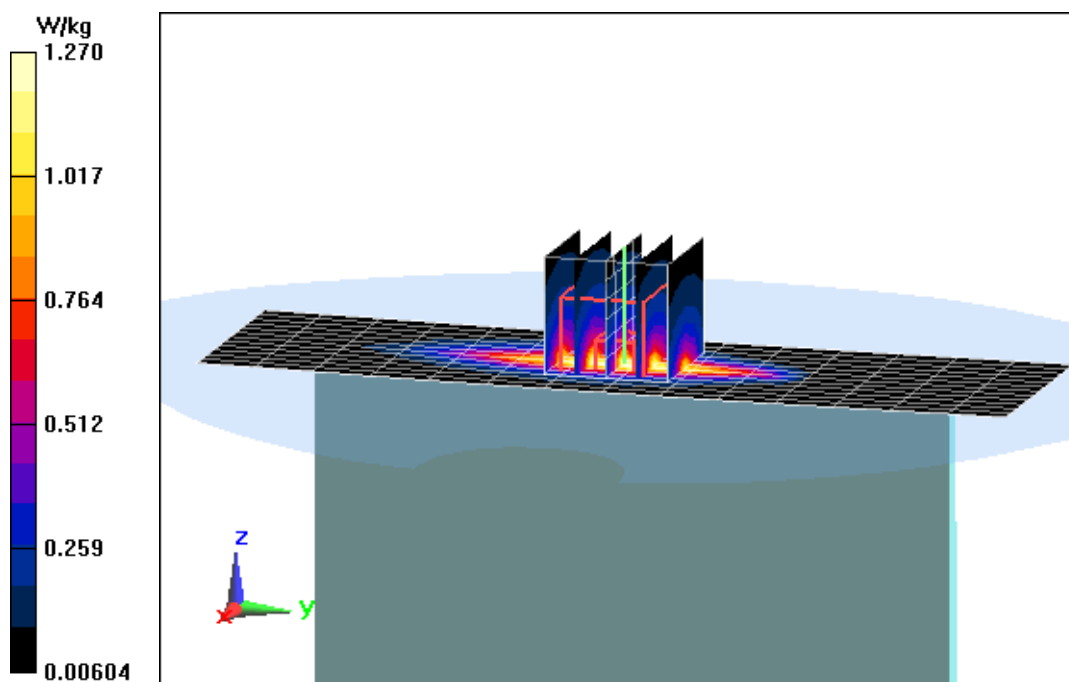
Area Scan (13x15x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

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

Reference Value = 34.38 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.06 W/kg

SAR(1 g) = 0.993 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT817T; Type: Portable Tablet; Serial: 6062

Communication System: UID 0, UMTS; Frequency: 1752.5 MHz; Duty Cycle: 1:1
Medium: 1750 Body, Medium parameters used (interpolated):
 $f = 1752.5 \text{ MHz}$; $\sigma = 1.476 \text{ S/m}$; $\epsilon_r = 52.399$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 05-04-2015; Ambient Temp: 24.1°C; Tissue Temp: 21.4°C

Probe: ES3DV3 - SN3318; ConvF(4.95, 4.95, 4.95); Calibrated: 1/23/2015;
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1272; Calibrated: 1/14/2015
Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2027
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Mode: UMTS 1750, Body SAR, Back side, High.ch

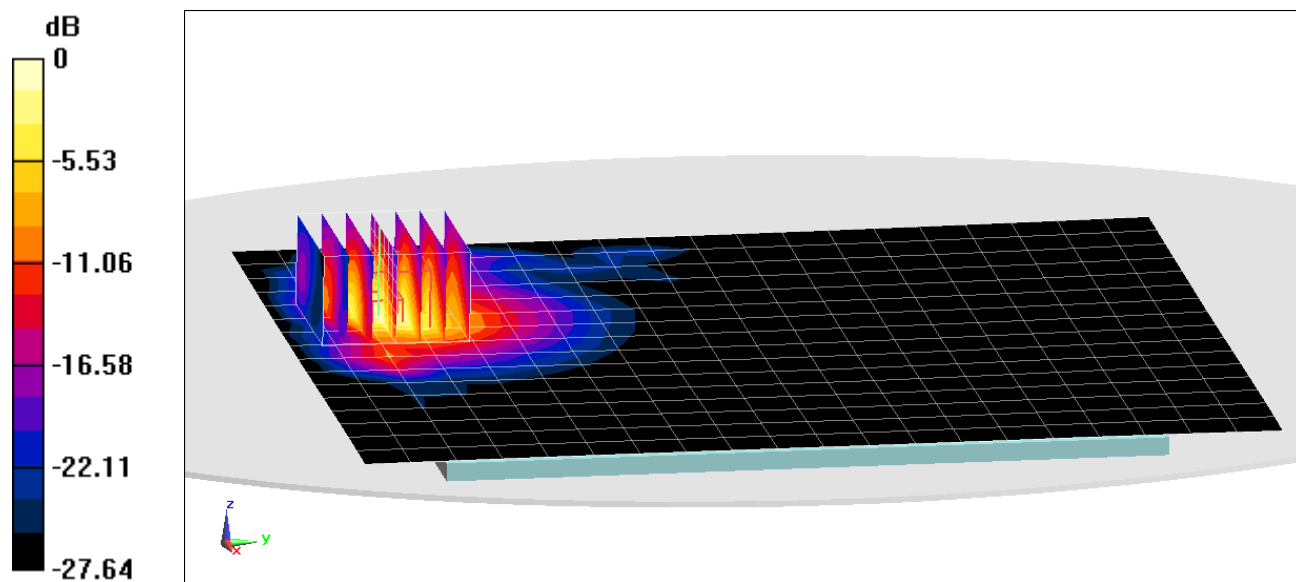
Area Scan (17x21x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.98 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 1.08 W/kg



0 dB = 1.42 W/kg = 1.52 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT817T; Type: Portable Tablet; Serial: 6798

Communication System: UID 0, UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: 1900 Body, Medium parameters used (interpolated):

$f = 1907.6 \text{ MHz}$; $\sigma = 1.573 \text{ S/m}$; $\epsilon_r = 52.046$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05-01-2015; Ambient Temp: 22.3°C; Tissue Temp: 21.0°C

Probe: ES3DV3 - SN3288; ConvF(4.82, 4.82, 4.82); Calibrated: 9/24/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 9/18/2014

Phantom: SAM with CRP v4.0; Type: QD000P40CD; Serial: TP:1797

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

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

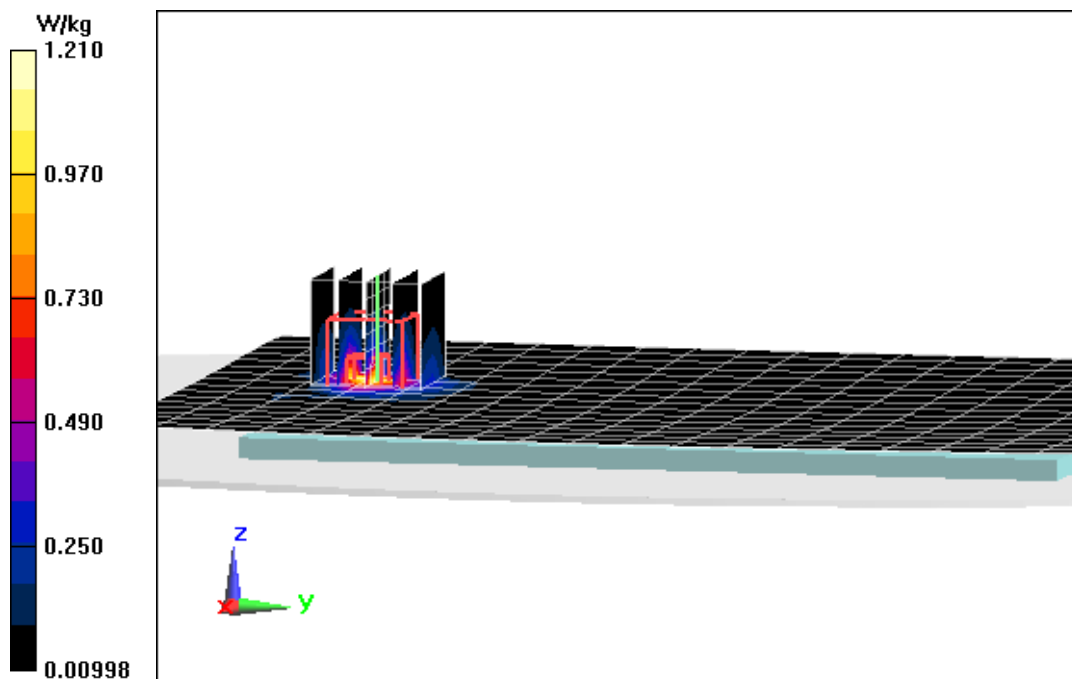
Area Scan (9x12x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 29.06 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 1.08 W/kg



0 dB = 1.34 W/kg = 1.27 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT817T; Type: Portable Tablet; Serial: 8134

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body, Medium parameters used (interpolated):

$f = 707.5$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 54.867$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05-04-2015; Ambient Temp: 24.2°C; Tissue Temp: 22.0°C

Probe: ES3DV3 - SN3331; ConvF(6.12, 6.12, 6.12); Calibrated: 8/20/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 10/31/2014

Phantom: SAM Sub ; Type: QD000P40CC; Serial: TP:1357

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

**Mode: LTE Band 12, Body SAR, Top Edge, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset**

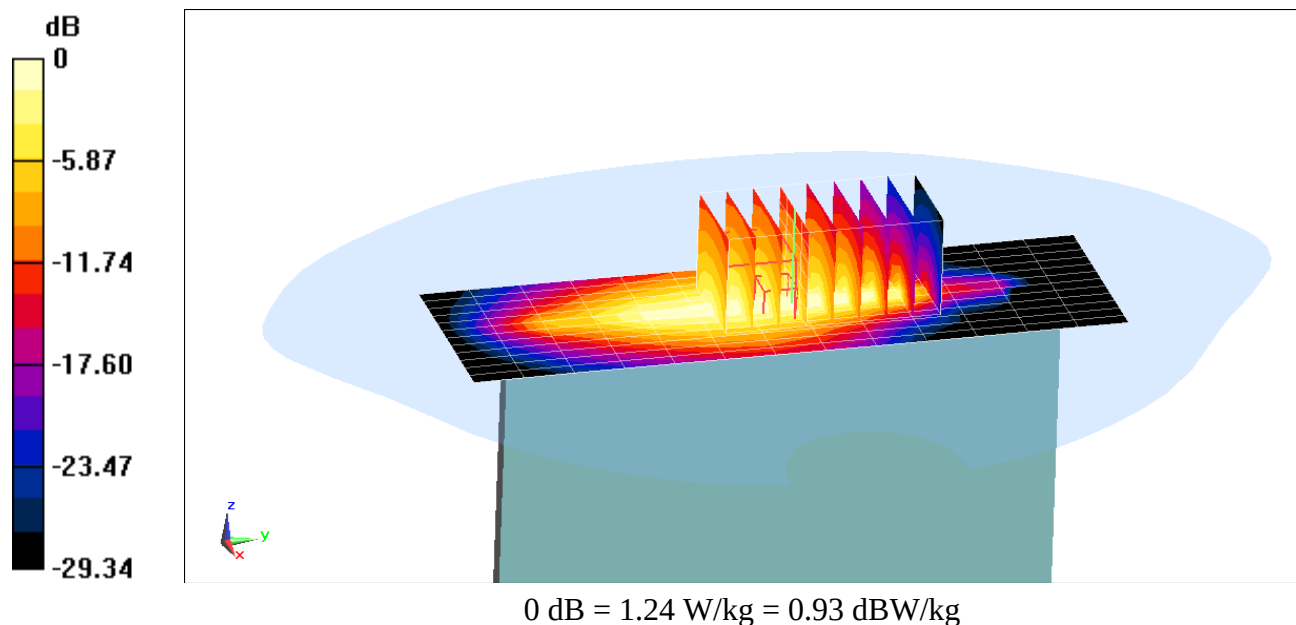
Area Scan (13x14x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (5x9x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.56 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.44 W/kg

SAR(1 g) = 0.877 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT817T; Type: Portable Tablet; Serial: 8117

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

Medium: 835 Body, Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.994 \text{ S/m}$; $\epsilon_r = 54.179$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 04-27-2015; Ambient Temp: 20.9°C; Tissue Temp: 21.9°C

Probe: ES3DV2 - SN3022; ConvF(5.98, 5.98, 5.98); Calibrated: 8/19/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 8/12/2014

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 5 (Cell.), Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

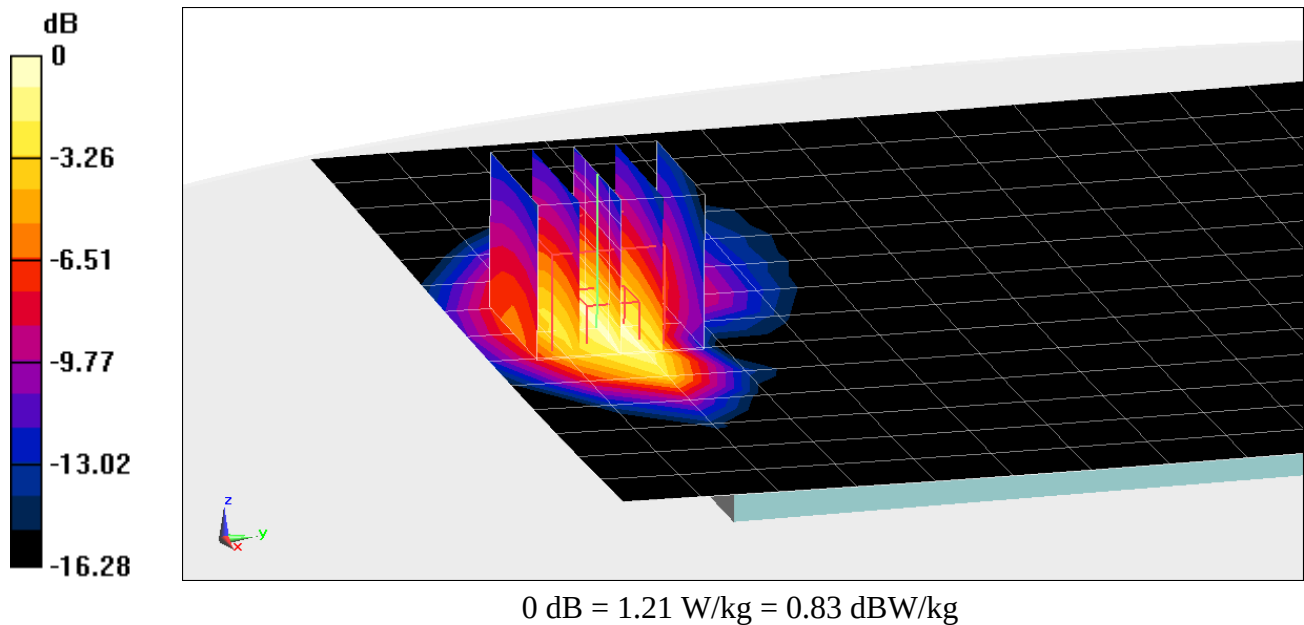
Area Scan (15x19x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 33.10 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.957 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT817T; Type: Portable Tablet; Serial: 7598

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

Medium: 1750 Body, Medium parameters used (interpolated):

$f = 1732.5 \text{ MHz}$; $\sigma = 1.432 \text{ S/m}$; $\epsilon_r = 52.947$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 04-27-2015; Ambient Temp: 22.3°C; Tissue Temp: 21.4°C

Probe: ES3DV3 - SN3318; ConvF(4.95, 4.95, 4.95); Calibrated: 1/23/2015;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 1/14/2015

Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2027

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

**Mode: LTE Band 4 (AWS), Body SAR, Left Edge, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

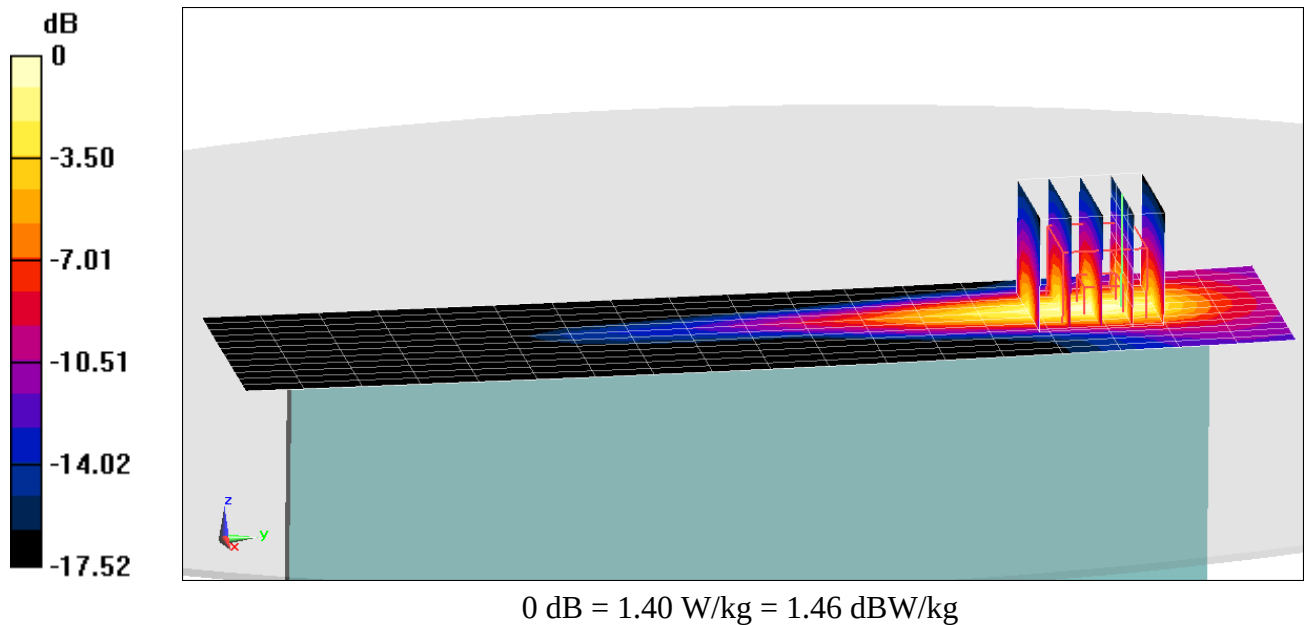
Area Scan (13x19x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 28.23 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 1.01 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT817T; Type: Portable Tablet; Serial: 6947

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

Medium: 1900 Body, Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.564 \text{ S/m}$; $\epsilon_r = 52.095$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05-01-2015; Ambient Temp: 22.3°C; Tissue Temp: 21.0°C

Probe: ES3DV3 - SN3288; ConvF(4.82, 4.82, 4.82); Calibrated: 9/24/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 9/18/2014

Phantom: SAM with CRP v4.0; Type: QD000P40CD; Serial: TP:1797

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, 1 RB, 99 RB Offset**

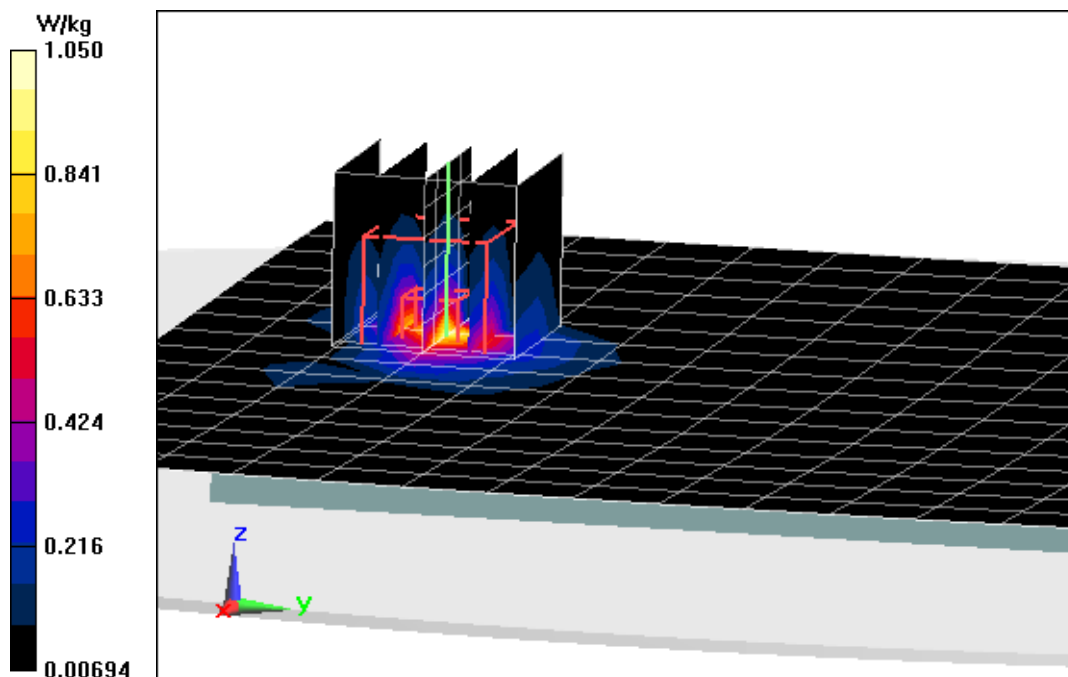
Area Scan (10x21x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 29.52 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.24 W/kg

SAR(1 g) = 1.1 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT817T; Type: Portable Tablet; Serial: 7937

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

Medium: 2450 Body, Medium parameters used (interpolated):

$f = 2437 \text{ MHz}$; $\sigma = 1.946 \text{ S/m}$; $\epsilon_r = 51.364$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 04-29-2015; Ambient Temp: 21.4°C; Tissue Temp: 21.7°C

Probe: ES3DV3 - SN3319; ConvF(4.11, 4.11, 4.11); Calibrated: 3/19/2015;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/13/2015

Phantom: SAM with CRP v4.0; Type: QD000P40CD; Serial: TP:1800

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

Mode: IEEE 802.11b, Body SAR, Ch 6, 1 Mbps, Back Side, Antenna 1

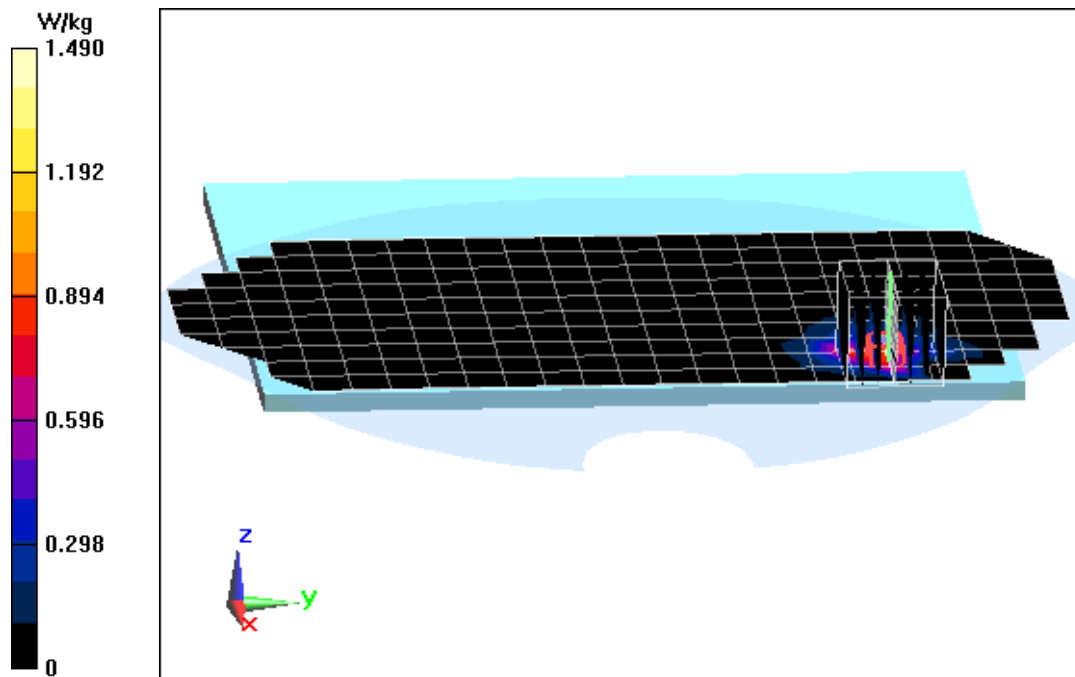
Area Scan (11x24x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

Reference Value = 22.06 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 1.02 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT817T; Type: Portable Tablet; Serial: 7937

Communication System: UID 0, IEEE 802.11ac; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body, Medium parameters used (interpolated):

$f = 5290 \text{ MHz}$; $\sigma = 5.391 \text{ S/m}$; $\epsilon_r = 48.037$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 04-27-2015; Ambient Temp: 20.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3589; ConvF(3.79, 3.79, 3.79); Calibrated: 1/22/2015;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 9/17/2014

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: TP:-1648

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

**Mode: IEEE 802.11ac, 5.3 GHz, 80 MHz Bandwidth,
Body SAR, Ch 58, 29.3 Mbps, Back Side, Antenna 2**

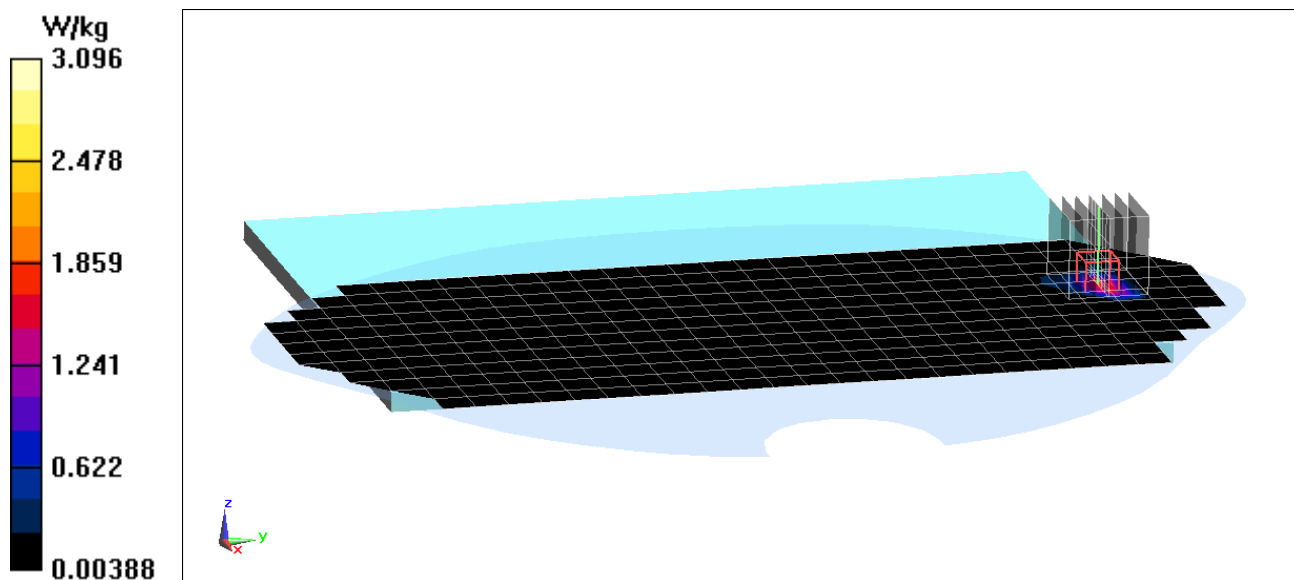
Area Scan (13x29x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 11.40 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 8.90 W/kg

SAR(1 g) = 0.864 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT817T; Type: Portable Tablet; Serial: 6905

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

Medium: 2450 Body, Medium parameters used (interpolated):

$f = 2441 \text{ MHz}$; $\sigma = 1.951 \text{ S/m}$; $\epsilon_r = 51.347$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 04-29-2015; Ambient Temp: 21.4°C; Tissue Temp: 21.7°C

Probe: ES3DV3 - SN3319; ConvF(4.11, 4.11, 4.11); Calibrated: 3/19/2015;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/13/2015

Phantom: SAM with CRP v4.0; Type: QD000P40CD; Serial: TP:1800

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

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

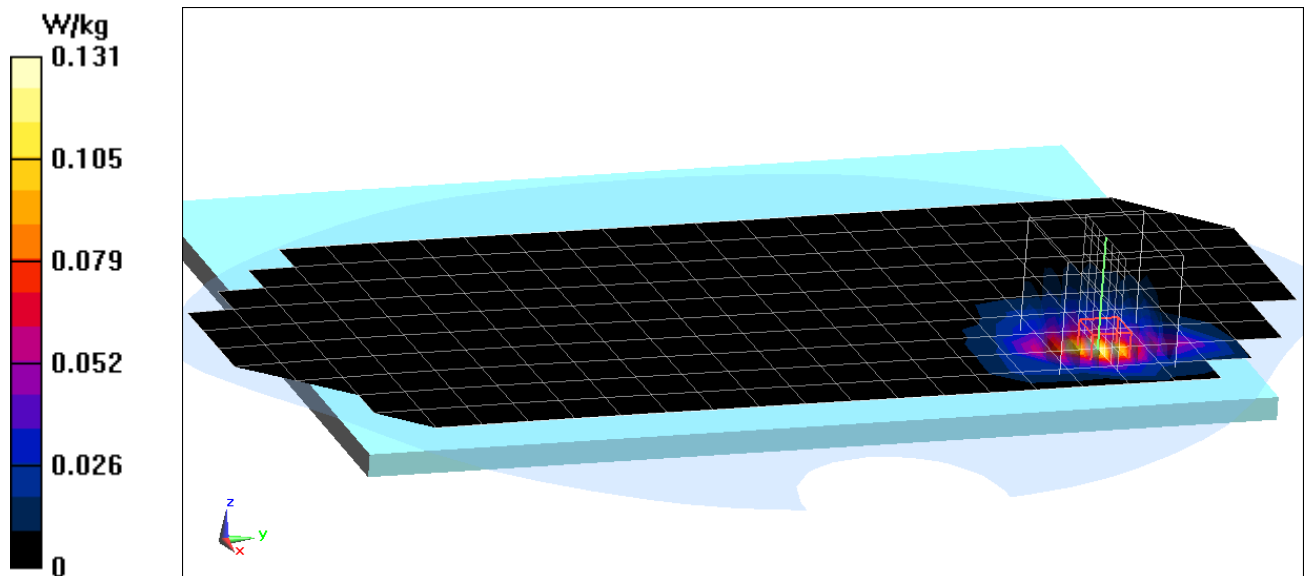
Area Scan (11x24x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

Reference Value = 7.720 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.098 W/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):

$f = 750 \text{ MHz}$; $\sigma = 0.965 \text{ S/m}$; $\epsilon_r = 54.443$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05-04-2015; Ambient Temp: 24.2°C; Tissue Temp: 22.0°C

Probe: ES3DV3 - SN3331; ConvF(6.12, 6.12, 6.12); Calibrated: 8/20/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 10/31/2014

Phantom: SAM Sub ; Type: QD000P40CC; Serial: TP:1357

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

750 MHz System Verification

Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

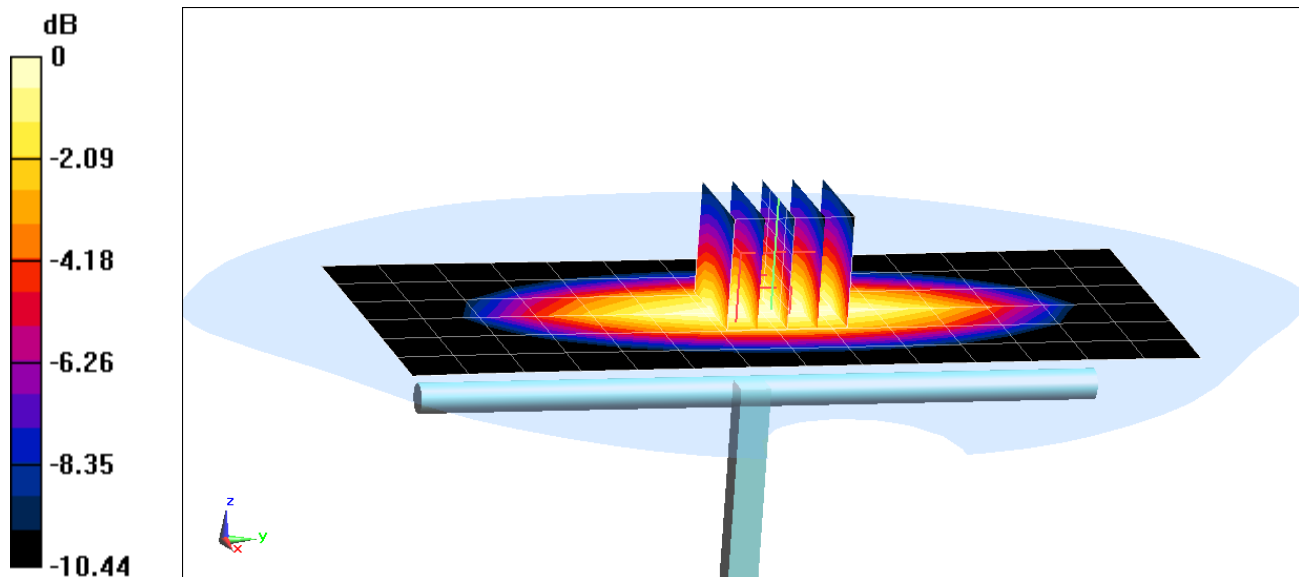
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.890 W/kg

Deviation = 7.36%



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

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d133

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

Medium: 835 Body, Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.992 \text{ S/m}$; $\epsilon_r = 54.192$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04-27-2015; Ambient Temp: 20.9°C; Tissue Temp: 21.9°C

Probe: ES3DV2 - SN3022; ConvF(5.98, 5.98, 5.98); Calibrated: 8/19/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 8/12/2014

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

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

835 MHz System Verification

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

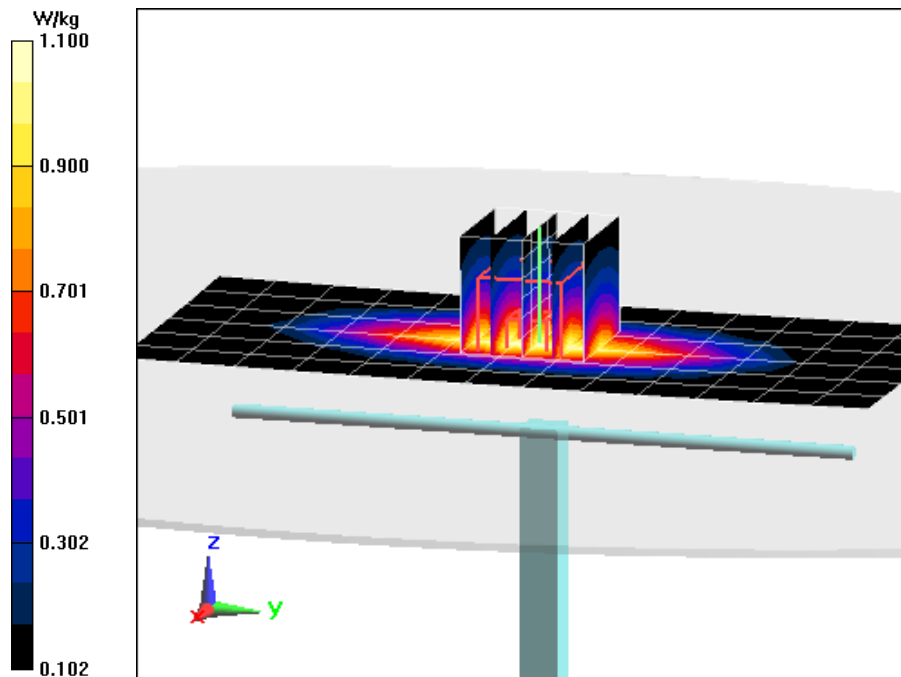
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.940 W/kg

Deviation = 0.53%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d133

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

Medium: 835 Body, Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.981 \text{ S/m}$; $\epsilon_r = 53.24$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04-30-2015; Ambient Temp: 23.3°C; Tissue Temp: 22.7°C

Probe: ES3DV3 - SN3209; ConvF(6.07, 6.07, 6.07); Calibrated: 3/19/2015;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 3/13/2015

Phantom: SAM v5.0 Left; Type: QD000P40CD; Serial: TP: 1687

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

835 MHz System Verification

Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

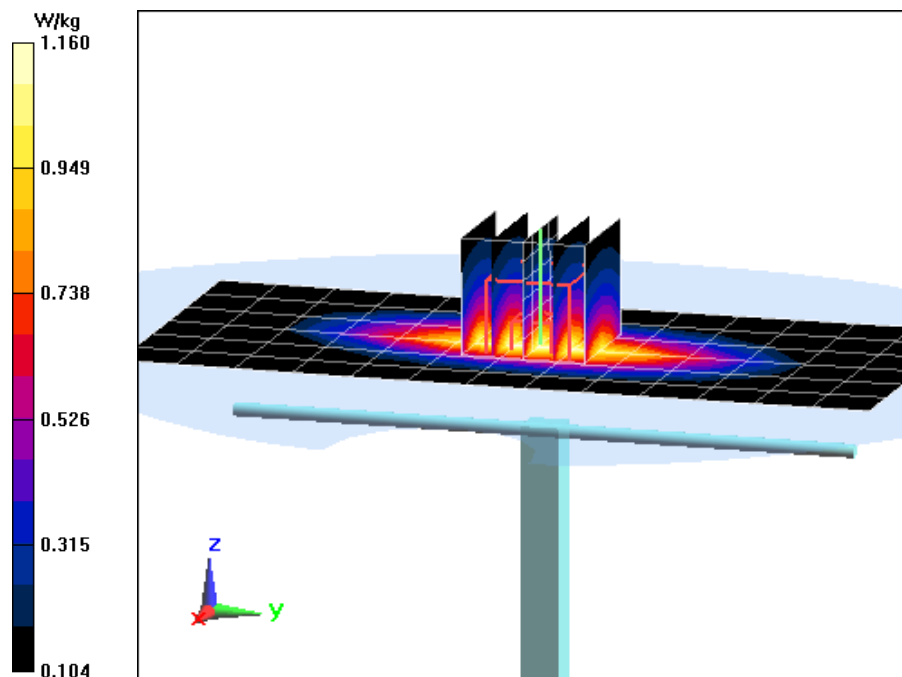
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.990 W/kg

Deviation = 5.88%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1750 MHz; Type: D1765V2; Serial: 1008

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

Medium: 1750 Body, Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.451 \text{ S/m}$; $\epsilon_r = 52.881$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04-27-2015; Ambient Temp: 22.3°C; Tissue Temp: 21.4°C

Probe: ES3DV3 - SN3318; ConvF(4.95, 4.95, 4.95); Calibrated: 1/23/2015;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 1/14/2015

Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2027

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

1750 MHz System Verification

Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

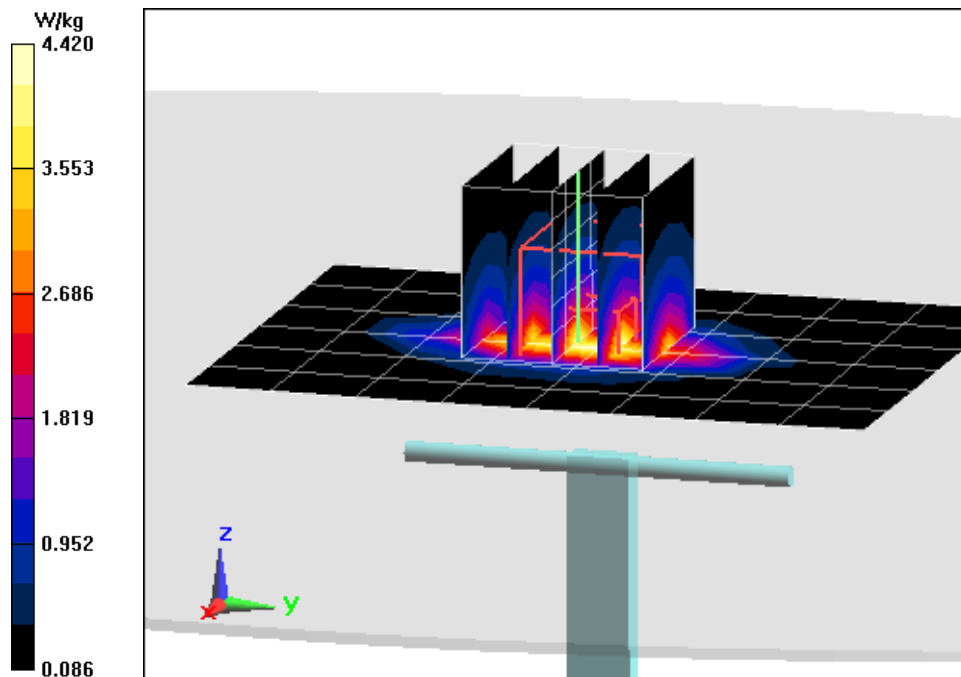
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 6.29 W/kg

SAR(1 g) = 3.58 W/kg

Deviation = -4.79%



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:

$f = 1750 \text{ MHz}$; $\sigma = 1.473 \text{ S/m}$; $\epsilon_r = 52.409$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05-04-2015; Ambient Temp: 24.1°C; Tissue Temp: 21.4°C

Probe: ES3DV3 - SN3318; ConvF(4.95, 4.95, 4.95); Calibrated: 1/23/2015;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 1/14/2015

Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2027

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

1750 MHz System Verification

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

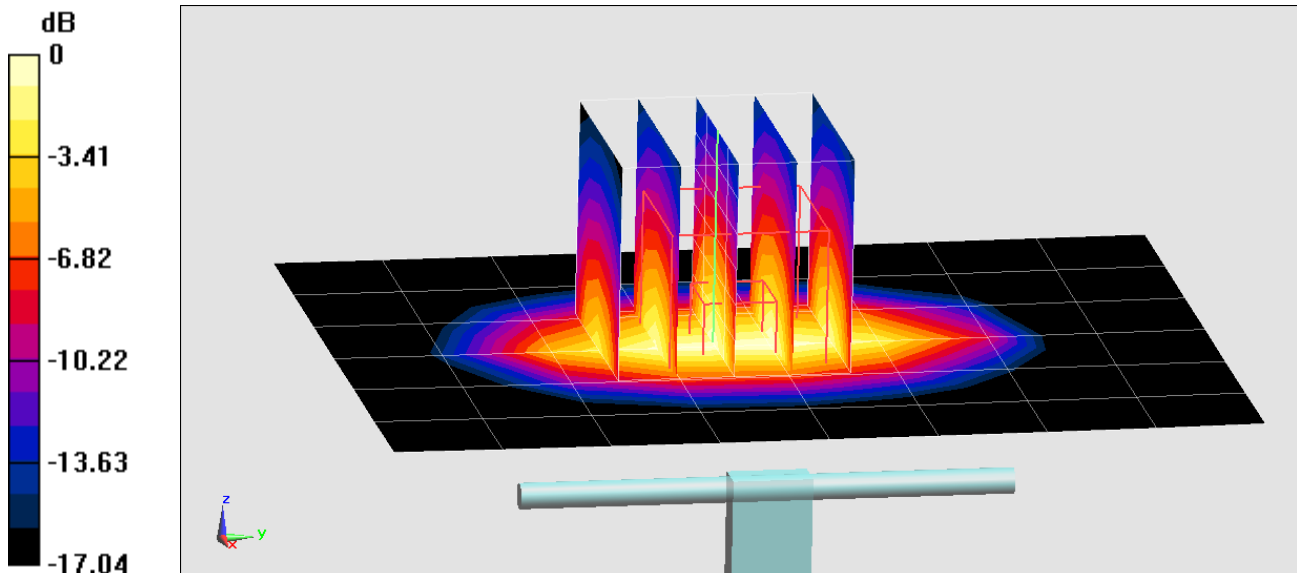
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 6.52 W/kg

SAR(1 g) = 3.71 W/kg

Deviation = 0.00%



0 dB = 4.63 W/kg = 6.66 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d141

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

Medium: 1900 Body, Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.564 \text{ S/m}$; $\epsilon_r = 52.095$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05-01-2015; Ambient Temp: 22.3°C; Tissue Temp: 21.0°C

Probe: ES3DV3 - SN3288; ConvF(4.82, 4.82, 4.82); Calibrated: 9/24/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 9/18/2014

Phantom: SAM with CRP v4.0; Type: QD000P40CD; Serial: TP:1797

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

1900 MHz System Verification

Area Scan (7x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

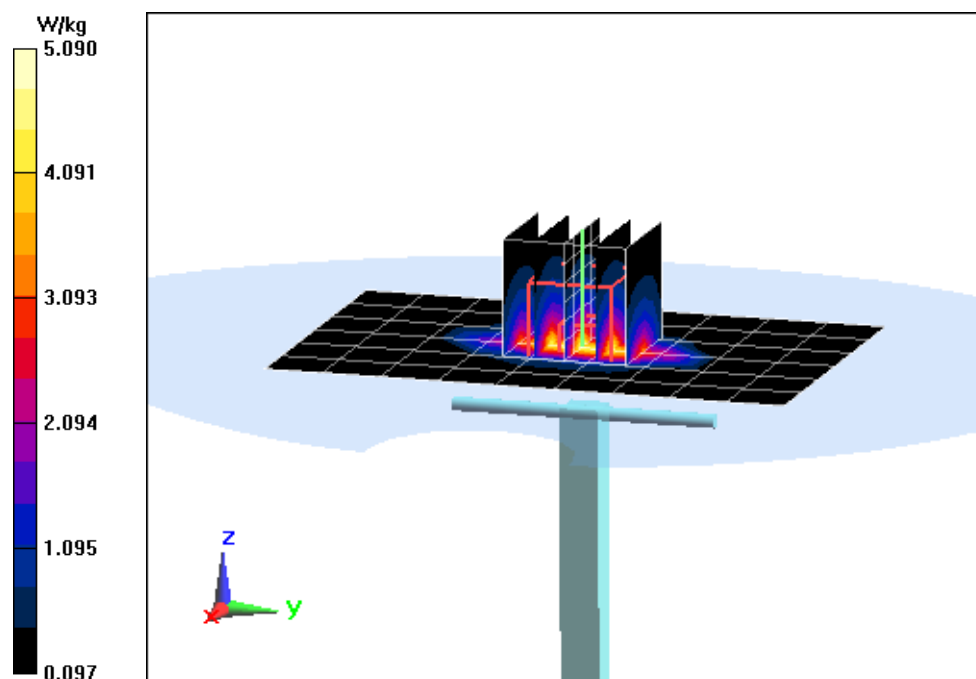
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 7.15 W/kg

SAR(1 g) = 4.02 W/kg

Deviation = 0.50%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 719

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

Medium: 2450 Body, Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.962 \text{ S/m}$; $\epsilon_r = 51.31$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04-29-2015; Ambient Temp: 21.4°C; Tissue Temp: 21.7°C

Probe: ES3DV3 - SN3319; ConvF(4.11, 4.11, 4.11); Calibrated: 3/19/2015;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/13/2015

Phantom: SAM with CRP v4.0; Type: QD000P40CD; Serial: TP:1800

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

2450 MHz System Verification

Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

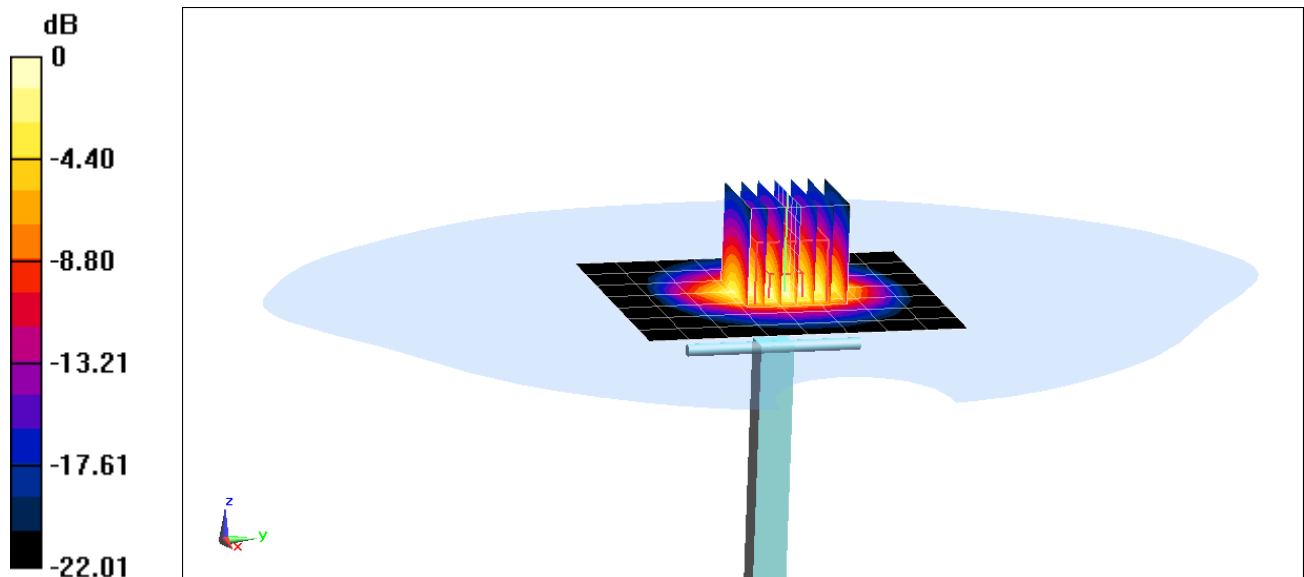
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Input Power = 20.0 dBm (100 mW)

Peak SAR (extrapolated) = 11.8 W/kg

SAR(1 g) = 5.56 W/kg

Deviation = 7.34%



0 dB = 7.36 W/kg = 8.67 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5300 MHz; Type: D5GHzV2; Serial: 1057

Communication System: UID 0, CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body, Medium parameters used:

$f = 5300 \text{ MHz}$; $\sigma = 5.409 \text{ S/m}$; $\epsilon_r = 48.022$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04-27-2015; Ambient Temp: 20.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3589; ConvF(3.79, 3.79, 3.79); Calibrated: 1/22/2015;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 9/17/2014

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: TP:-1648

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

5300 MHz System Verification

Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

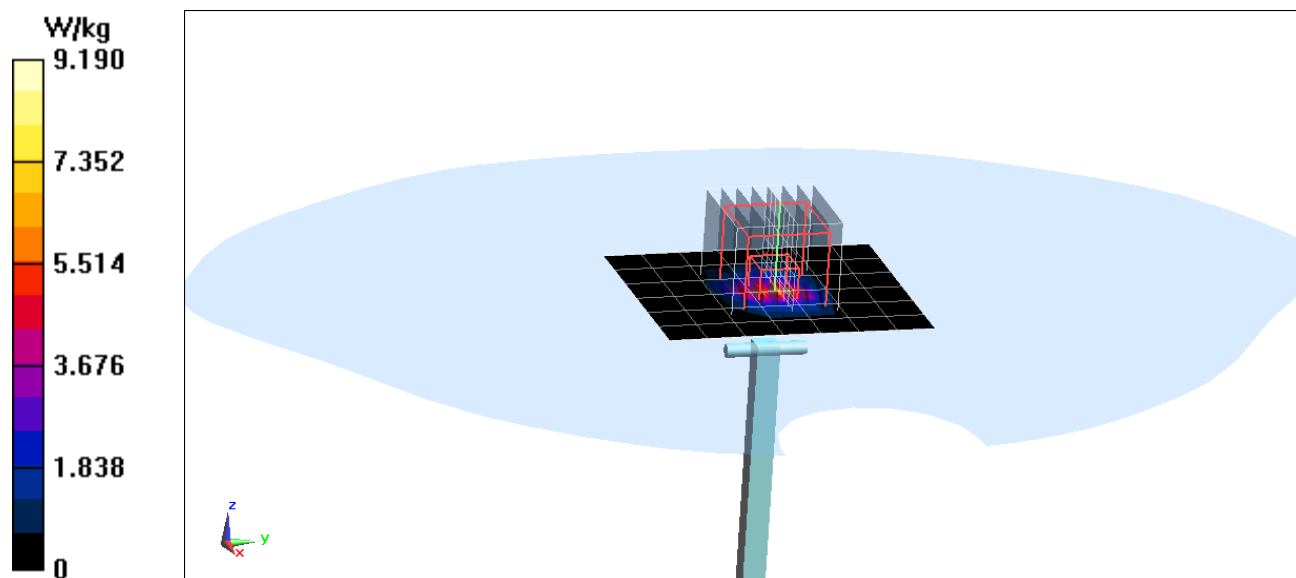
Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Input Power = 17.0 dBm (50 mW)

Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 3.84 W/kg

Deviation = 3.50%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5500 MHz; Type: D5GHzV2; Serial: 1057

Communication System: UID 0, CW; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body, Medium parameters used:

$f = 5500 \text{ MHz}$; $\sigma = 5.652 \text{ S/m}$; $\epsilon_r = 47.731$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04-27-2015; Ambient Temp: 20.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3589; ConvF(3.65, 3.65, 3.65); Calibrated: 1/22/2015;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 9/17/2014

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: TP:-1648

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

5500 MHz System Verification

Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

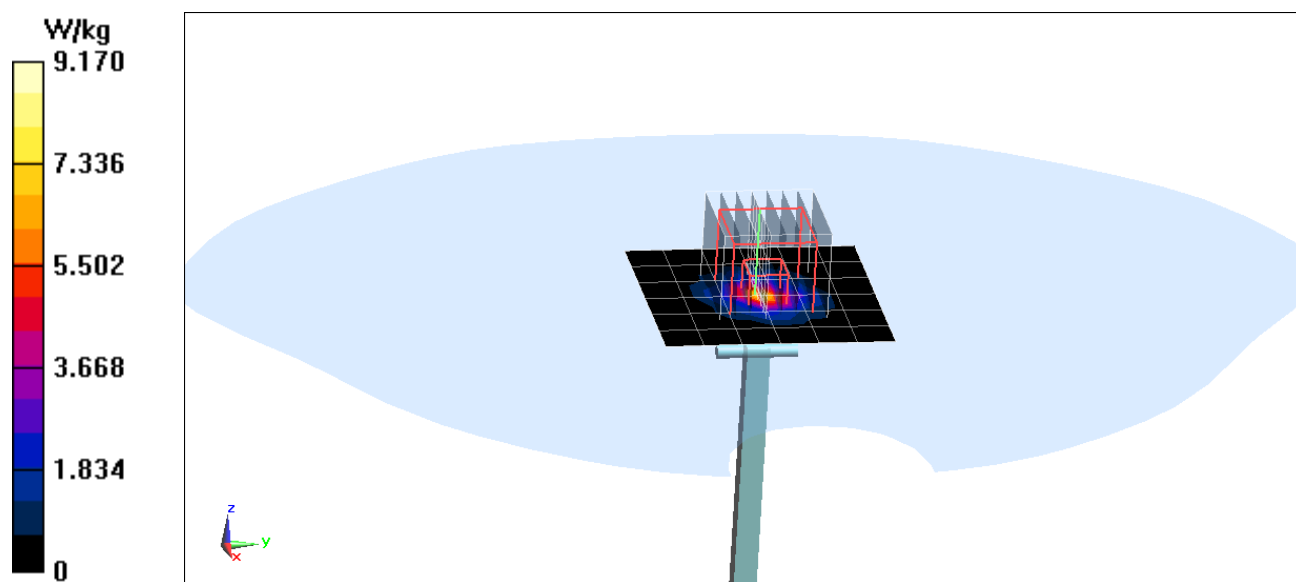
Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Input Power = 17.0 dBm (50 mW)

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 3.78 W/kg

Deviation = -4.55%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: 1057

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body, Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 5.803 \text{ S/m}$; $\epsilon_r = 47.57$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04-27-2015; Ambient Temp: 21.0°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN3589; ConvF(3.42, 3.42, 3.42); Calibrated: 1/22/2015;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 9/17/2014

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: TP:-1648

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

5600 MHz System Verification

Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

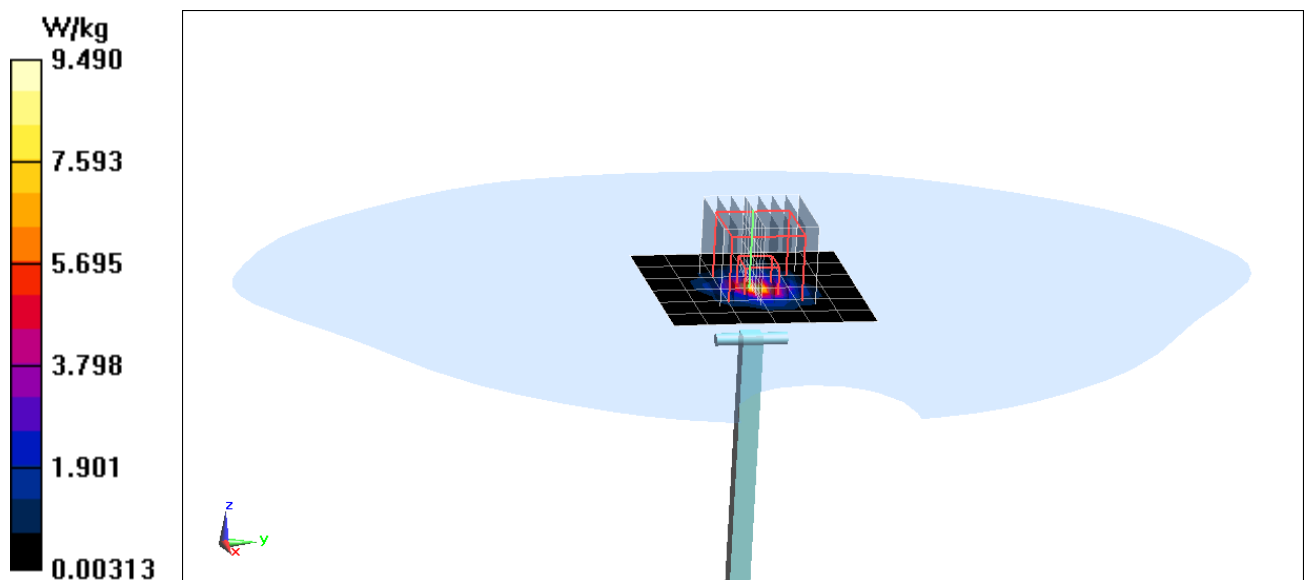
Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Input Power = 17.0 dBm (50 mW)

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 3.91 W/kg

Deviation = 0.64%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5800 MHz; Type: D5GHzV2; Serial: 1057

Communication System: UID 0, CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body, Medium parameters used:

$f = 5800 \text{ MHz}$; $\sigma = 6.073 \text{ S/m}$; $\epsilon_r = 47.223$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04-27-2015; Ambient Temp: 21.1°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN3589; ConvF(3.79, 3.79, 3.79); Calibrated: 1/22/2015;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 9/17/2014

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: TP:-1648

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

5800 MHz System Verification

Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Input Power = 17.0 dBm (50 mW)

Peak SAR (extrapolated) = 15.8 W/kg

SAR(1 g) = 3.45 W/kg

Deviation = -8.12%

