



SAR EVALUATION REPORT

Applicant Name:

Samsung Electronics, Co. Ltd.
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Yongtong-gu, Suwon-si
Gyeonggi-do 443-742, Korea

Date of Testing:

04/30/14 - 05/14/14

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

Document Serial No.:

OY1404300881.A3L

FCC ID:

A3LSMT705M

APPLICANT:

SAMSUNG ELECTRONICS, CO. LTD.

DUT Type:

Portable Tablet

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-T705M

Equipment Class	Band & Mode	Tx Frequency	SAR	
			1 gm Head (W/kg)	1 gm Body (W/kg)
PCB	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	< 0.1	0.37
PCB	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	< 0.1	0.35
PCB	UMTS 850	826.40 - 846.60 MHz	< 0.1	0.48
PCB	UMTS 1900	1852.4 - 1907.6 MHz	< 0.1	0.61
PCB	LTE Band 17	706.5 - 713.5 MHz	< 0.1	0.38
PCB	LTE Band 5 (Cell)	824.7 - 848.3 MHz	< 0.1	0.32
PCB	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	0.16	0.63
PCB	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	< 0.1	0.57
DTS	2.4 GHz WLAN	2412 - 2462 MHz	0.22	0.95
DTS	Bluetooth LE	2402 - 2480 MHz	N/A	
Nil	5.8 GHz WLAN	5745 - 5825 MHz		
Nil	5.2 GHz WLAN	5180 - 5240 MHz		
Nil	5.3 GHz WLAN	5260 - 5320 MHz		
Nil	5.5 GHz WLAN	5500 - 5700 MHz		
DTS	Bluetooth	2402 - 2480 MHz	N/A	0.15
Simultaneous SAR per KDB 690783 D01v01r02:			0.54	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



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
2.4 GHz WLAN	Data	2412 - 2462 MHz
5.8 GHz WLAN	Data	5745 - 5825 MHz
5.2 GHz WLAN	Data	5180 - 5240 MHz
5.3 GHz WLAN	Data	5260 - 5320 MHz
5.5 GHz WLAN	Data	5500 - 5700 MHz
Bluetooth	Data	2402 - 2480 MHz
ANT+	Data	2402 - 2480 MHz

1.2 Power Reduction for SAR

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

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

1.3 Nominal and Maximum Output Power Specifications

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

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Maximum Power:

Mode / Band		Voice (dBm)	Burst Average GMSK (dBm)					Burst Average 8-PSK (dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	
GSM/GPRS/EDGE 850	Maximum	33.0	33.0	30.5	28.5	27.0	28.5	27.5	26.5	26.0	
	Nominal	32.5	32.5	30.0	28.0	26.5	28.0	27.0	26.0	25.5	
GSM/GPRS/EDGE 1900	Maximum	30.0	30.0	27.5	25.5	24.0	26.0	25.0	24.0	23.5	
	Nominal	29.5	29.5	27.0	25.0	23.5	25.5	24.5	23.5	23.0	

Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA Rel. 99	3GPP HSDPA Rel. 5	3GPP HSUPA Rel. 6	3GPP DC-HSDPA Rel. 8
UMTS Band 5 (850 MHz)	Maximum	23.0	23.0	22.0	23.0
	Nominal	22.5	22.5	21.5	22.5
UMTS Band 2 (1900 MHz)	Maximum	23.0	23.0	22.0	23.0
	Nominal	22.5	22.5	21.5	22.5

Mode / Band		Modulated Average (dBm)
LTE Band 17	Maximum	22.5
	Nominal	22.0
LTE Band 5 (Cell)	Maximum	22.5
	Nominal	22.0
LTE Band 4 (AWS)	Maximum	23.0
	Nominal	22.5
LTE Band 2 (PCS)	Maximum	23.0
	Nominal	22.5

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

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With Power Reduced (Body at 0mm):

Mode / Band		Voice (dBm)	Burst Average GMSK (dBm)				Burst Average 8-PSK (dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
GSM/GPRS/EDGE 850	Maximum	25.0	25.0	22.5	20.5	19.0	21.5	20.5	19.5	19.0
	Nominal	24.5	24.5	22.0	20.0	18.5	21.0	20.0	19.0	18.5
GSM/GPRS/EDGE 1900	Maximum	17.5	17.5	15.0	13.0	11.5	14.0	13.0	12.0	11.5
	Nominal	17.0	17.0	14.5	12.5	11.0	13.5	12.5	11.5	11.0

Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA Rel. 99	3GPP HSDPA Rel. 5	3GPP HSUPA Rel. 6	3GPP DC-HSDPA Rel. 8
UMTS Band 5 (850 MHz)	Maximum	15.5	15.5	15.0	15.5
	Nominal	15.0	15.0	14.5	15.0
UMTS Band 2 (1900 MHz)	Maximum	11.0	11.0	10.5	11.0
	Nominal	10.5	10.5	10.0	10.5

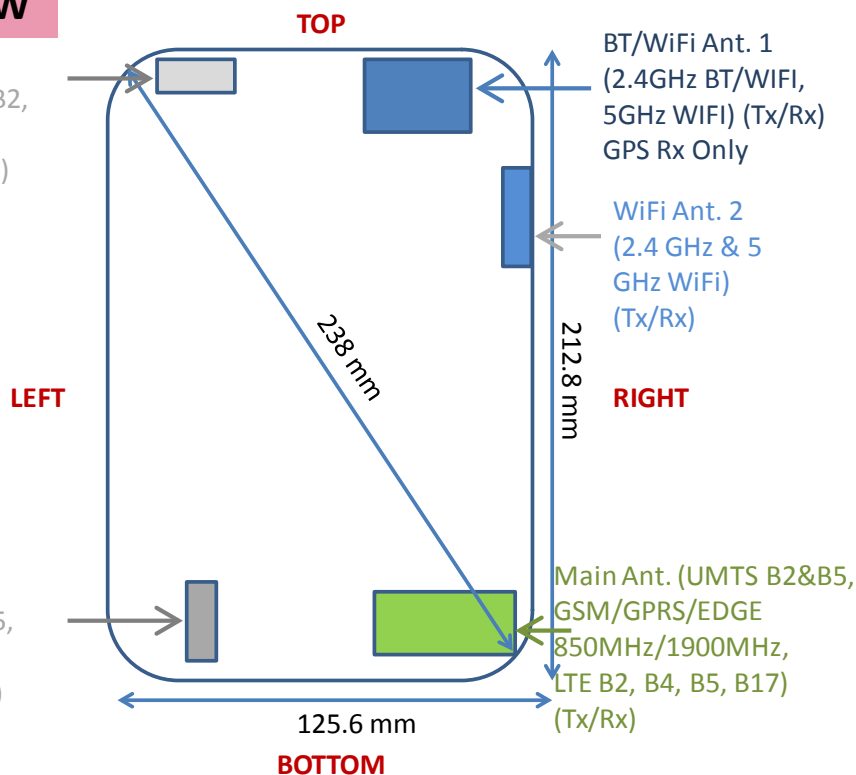
Mode / Band		Modulated Average (dBm)
LTE Band 17	Maximum	14.5
	Nominal	14.0
LTE Band 5 (Cell)	Maximum	10.5
	Nominal	10.0
LTE Band 4 (AWS)	Maximum	10.5
	Nominal	10.0
LTE Band 2 (PCS)	Maximum	10.5
	Nominal	10.0

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1.4 DUT Antenna Locations

FRONT VIEW

GSM/GPRS/EDGE
1900MHz, UMTS B2,
LTE B2, B4 Ant.
(Rx Only Diversity)



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

Figure 1-1
DUT Antenna Locations

Table 1-1
Body Sides for SAR Testing

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

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

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1.5 Simultaneous Transmission Capabilities

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



Figure 1-2
Simultaneous Transmission Paths

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

Table 1-2
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Body	Notes
1	GSM voice + 2.4 GHz Wi-Fi	Yes	Yes	
2	GSM voice + 5 GHz Wi-Fi	Yes	Yes	
3	GSM voice + 2.4 GHz Bluetooth	N/A	Yes	
4	UMTS + 2.4 GHz Wi-Fi	Yes	Yes	
5	UMTS + 5 GHz Wi-Fi	Yes	Yes	
6	UMTS + 2.4 GHz Bluetooth	N/A	Yes	
7	LTE + 2.4 GHz Wi-Fi	Yes*	Yes	*Pre-installed VOIP applications are considered.
8	LTE + 5 GHz Wi-Fi	N/A	Yes	WIFI Direct
9	LTE + 2.4 GHz Bluetooth	N/A	Yes	
10	GPRS/EDGE + 2.4 GHz Wi-Fi	N/A	Yes	
11	GPRS/EDGE + 5 GHz Wi-Fi	N/A	Yes	WIFI Direct
12	GPRS/EDGE + 2.4 GHz Bluetooth	N/A	Yes	

Notes:

- (*) = for Pre-installed VOIP applications possibly installed and used by the end-user
- When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN DATA scenario.
- Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
- Per FCC KDB 616217 D04 4.3, when voice mode is limited to speaker mode or headset operations only for body operations, additional SAR testing for tablet voice use is not required. Therefore, voice standalone and simultaneous combinations are not evaluated for body configurations. Corresponding data modes are used for summation with Bluetooth when applicable.
- GSM/GPRS/EDGE, UMTS and LTE share the same antenna and cannot transmit simultaneously.
- 2.4 GHz WLAN, 2.4 GHz Bluetooth, and 5 GHz WLAN 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.

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1.6 SAR Test Exclusions Applied

(A) WIFI/BT

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

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

Based on the maximum conducted power of Bluetooth (rounded to the nearest mW) and the antenna to user separation distance, Bluetooth LE SAR was not required; $[(5/5) * \sqrt{2.44}] = 1.6 < 3.0$. Per KDB Publication 447498 D01v05, the maximum power of the channel was rounded to the nearest mW before calculation.

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

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

This device supports IEEE 802.11ac with the following features:

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

(B) Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

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

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

1.7 Guidance Applied

- IEEE 1528-2003
- FCC KDB Publication 941225 D01-D06 (2G/3G/4G)
- FCC KDB Publication 248227 D01v01r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v05 (General SAR Guidance)
- FCC KDB Publication 616217 D04v01 (Tablet SAR Consideration)
- FCC KDB Publication 447498 (SAR Measurements up to 6 GHz)
- April 2013 TCB Workshop Notes (IEEE 802.11ac)
- October 2013 TCB Workshop Notes (GPRS/EDGE)

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1.8 Device Serial Numbers

Several samples with identical hardware were used 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.

	Head Serial Number	Body Serial Number Reduced power	Body Serial Number - Max power
GSM/GPRS/EDGE 850	30APR-5	30APR-1	30APR-5
GSM/GPRS/EDGE 1900	30APR-5	30APR-1	30APR-5
UMTS 850	30APR-5	30APR-2	30APR-5
UMTS 1900	30APR-5	30APR-2	30APR-5
LTE Band 17	30APR-5	30APR-2	30APR-5
LTE Band 5 (Cell)	30APR-5	30APR-1	30APR-5
LTE Band 4 (AWS)	30APR-5	30APR-2	30APR-5
LTE Band 2 (PCS)	30APR-5	30APR-2	30APR-5
2.4 GHz WLAN / BT	30APR-2	-	30APR-2

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LTE INFORMATION

LTE Information			
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Form Factor	Portable Tablet		
Frequency Range of each LTE transmission band	LTE Band 17 (706.5 - 713.5 MHz)		
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)		
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)		
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)		
Channel Bandwidths	LTE Band 17: 5 MHz, 10 MHz		
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz		
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz		
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz		
Channel Numbers and Frequencies (MHz)	Low	Mid	High
LTE Band 17: 5 MHz	706.5 (23755)	710 (23790)	713.5 (23825)
LTE Band 17: 10 MHz	709 (23780)	710 (23790)	711 (23800)
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)	836.5 (20525)	848.3 (20643)
LTE Band 5 (Cell): 3 MHz	825.5 (20415)	836.5 (20525)	847.5 (20635)
LTE Band 5 (Cell): 5 MHz	826.5 (20425)	836.5 (20525)	846.5 (20625)
LTE Band 5 (Cell): 10 MHz	829 (20450)	836.5 (20525)	844 (20600)
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)	1732.5 (20175)	1754.3 (20393)
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)
UE Category	3		
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		

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

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

3.1 SAR Definition

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

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/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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4 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.

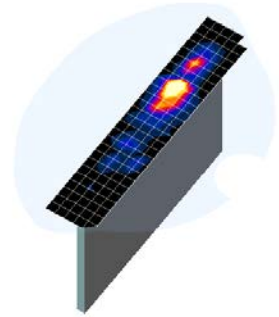


Figure 4-1
Sample SAR Area Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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DEFINITION OF REFERENCE POINTS

5.1 EAR REFERENCE POINT

Figure 5-2 shows the front, back and side views of the SAM Twin Phantom. The point “M” is the reference point for the center of the mouth, “LE” is the left ear reference point (ERP), and “RE” is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 5-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 5-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

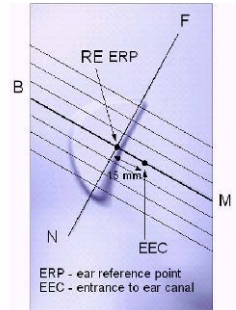


Figure 5-1
Close-Up Side view
of ERP

5.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the “vertical centerline” on the front of the device aligned to the “ear reference point” (See Figure 5-3). The acoustic output was then located at the same level as the center of the ear reference point. The test device was positioned so that the “vertical centerline” was bisecting the front surface of the handset at its top and bottom edges, positioning the “ear reference point” on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 5-2
Front, back and side view of SAM Twin Phantom

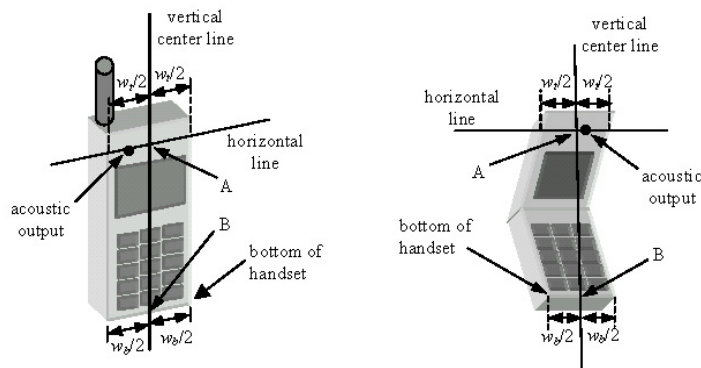


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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6 TEST CONFIGURATION POSITIONS FOR HANDSETS

6.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$.

6.2 Positioning for Cheek

1. The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6-1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.

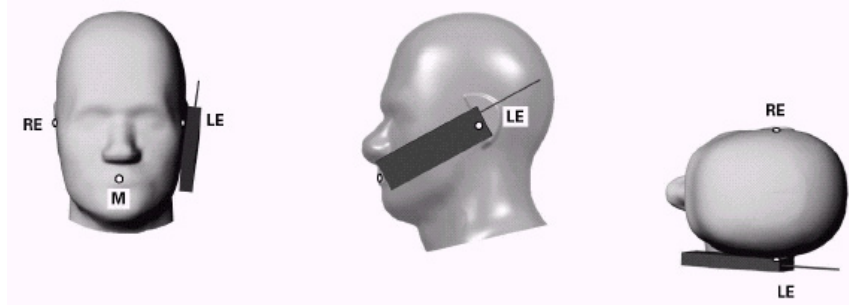


Figure 6-1 Front, Side and Top View of Cheek Position

2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
4. The phone was then rotated around the vertical centerline until the phone (horizontal line) was symmetrical with respect to the line NF.
5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the device contact with the ear, the device was rotated about the NF line until any point on the handset made contact with a phantom point below the ear (cheek) (See Figure 6-2).

6.3 Positioning for Ear / 15° Tilt

With the test device aligned in the “Cheek Position”:

1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15 degrees.
2. The phone was then rotated around the horizontal line by 15 degrees.
3. While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. In this situation, the tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 6-2).

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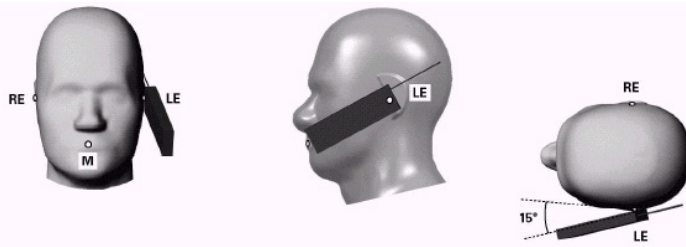


Figure 6-2 Front, Side and Top View of Ear/15° Tilt Position

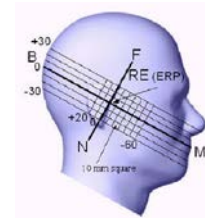


Figure 6-3 Side view w/ relevant markings

6.4 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.

6.5 Additional Test Positions due to Proximity Sensor Considerations

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

While the device's antenna is within a certain distance of the user, the proximity 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 proximity sensor activation distance for the back side of the device is 16 mm, a conservative distance of 15 mm was tested for SAR on the back side at maximum power. Since the proximity sensor activation distance for the bottom edge of the device is 11 mm, a conservative distance of 10 mm was tested for SAR on the bottom edge at maximum power. Since the proximity sensor activation distance for the right edge of the device is 5 mm, a conservative distance of 4 mm was tested for SAR on the right edge at maximum power. Sensor triggering distance summary data is included in Appendix G.

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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7 RF EXPOSURE LIMITS

7.1 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.

7.2 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 7-1
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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Power measurements were performed using a base station simulator under digital average power.

8.1 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.

8.2 Procedures Used to Establish RF Signal for SAR

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

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

8.3 SAR Measurement Conditions for UMTS

8.3.1 Output Power Verification

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

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121 (release 5), using the appropriate RMC with TPC (transmit power control) set to all "1s" or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (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.

8.3.2 Head SAR Measurements for Handsets

SAR for head exposure configurations is measured using the 12.2 kbps RMC with TPC bits configured to all "1s". SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2 kbps AMR is less than 0.25 dB higher than that measured in 12.2 kbps RMC. Otherwise, SAR is measured on the maximum output channel in 12.2 AMR with a 3.4 kbps SRB (signaling radio bearer) using the exposure configuration that resulted in the highest SAR for that RF channel in the 12.2 kbps RMC mode.

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8.3.3 Body SAR Measurements

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

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

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

Sub-Test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

Figure 8-1
Table C.10.1.4 of TS 234.121-1

8.3.5 SAR Measurements for HSUPA Data Devices

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

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

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

Note 1: Δ_{AGC} , Δ_{MAC} and Δ_{CC} = 8 $\Rightarrow A_{sc} = \beta_{sc}/\beta_c = 30/15 \Rightarrow \beta_{sc} = 30/15 * \beta_c$.

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

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

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

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

Note 6: β_{sc} can not be set directly; it is set by Absolute Grant Value.

8.3.6 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 $\leq 1/4$ 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.

8.4 SAR Measurement Conditions for LTE

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

8.4.1 Spectrum Plots for RB Configurations

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

8.4.2 MPR

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

8.4.3 A-MPR

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

8.4.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r01:

- Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth

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- 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.

8.5 SAR Testing with 802.11 Transmitters

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

8.5.1 General Device Setup

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

8.5.2 Frequency Channel Configurations [24]

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

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

8.5.3 MIMO SAR considerations

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

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RF CONDUCTED POWERS

9.1 GSM Conducted Powers

Table 9-1
Maximum GSM/GPRS/EDGE Average RF Conducted Powers

		Maximum Burst-Averaged Output Power								
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	32.84	32.85	29.74	28.20	26.21	26.98	26.03	25.03	24.38
	190	32.89	32.82	29.70	28.15	26.14	27.01	25.89	24.79	24.25
	251	33.00	32.99	29.79	28.30	26.25	26.71	25.82	24.77	24.29
GSM 1900	512	29.59	29.65	26.89	25.40	23.38	25.85	24.88	23.73	23.44
	661	29.68	29.70	27.02	25.47	23.47	25.92	24.99	23.91	23.48
	810	29.58	29.55	26.86	25.34	23.32	25.98	24.98	23.94	23.50
		Calculated Maximum Frame-Averaged Output Power								
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	23.81	23.82	23.72	23.94	23.20	17.95	20.01	20.77	21.37
	190	23.86	23.79	23.68	23.89	23.13	17.98	19.87	20.53	21.24
	251	23.97	23.96	23.77	24.04	23.24	17.68	19.80	20.51	21.28
GSM 1900	512	20.56	20.62	20.87	21.14	20.37	16.82	18.86	19.47	20.43
	661	20.65	20.67	21.00	21.21	20.46	16.89	18.97	19.65	20.47
	810	20.55	20.52	20.84	21.08	20.31	16.95	18.96	19.68	20.49
GSM 850	Frame Avg.Targets:	23.47	23.47	23.98	23.74	23.49	18.97	20.98	21.74	22.49
GSM 1900		20.47	20.47	20.98	20.74	20.49	16.47	18.48	19.24	19.99

Table 9-2
Reduced GSM/GPRS/EDGE Average RF Conducted Powers
Representing Body at 0 mm

		Maximum Burst-Averaged Output Power								
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	24.73	24.74	22.39	20.42	18.97	20.81	19.67	18.88	18.36
	190	24.67	24.71	22.34	20.32	18.86	20.66	19.67	18.65	18.23
	251	24.76	24.79	22.42	20.45	18.95	20.51	19.48	18.60	18.11
GSM 1900	512	17.31	17.31	14.82	12.85	11.38	13.36	12.37	11.33	10.90
	661	17.33	17.34	14.88	12.90	11.39	13.37	12.36	11.43	10.95
	810	17.41	17.43	14.92	12.99	11.45	13.35	12.30	11.32	10.74

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		Calculated Maximum Frame-Averaged Output Power								
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	15.70	15.71	16.37	16.16	15.96	11.78	13.65	14.62	15.35
	190	15.64	15.68	16.32	16.06	15.85	11.63	13.65	14.39	15.22
	251	15.73	15.76	16.40	16.19	15.94	11.48	13.46	14.34	15.10
GSM 1900	512	8.28	8.28	8.80	8.59	8.37	4.33	6.35	7.07	7.89
	661	8.30	8.31	8.86	8.64	8.38	4.34	6.34	7.17	7.94
	810	8.38	8.40	8.90	8.73	8.44	4.32	6.28	7.06	7.73
GSM 850	Frame	15.47	15.47	15.98	15.74	15.49	11.97	13.98	14.74	15.49
GSM 1900	Avg. Targets:	7.97	7.97	8.48	8.24	7.99	4.47	6.48	7.24	7.99

Note:

1. Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
2. The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for body SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
3. GPRS/EDGE (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 - CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
4. EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8PSK modulation do not have an impact on output power.

GSM Class: B
GPRS Multislot class: 33 (Max 4 Tx uplink slots)
EDGE Multislot class: 33 (Max 4 Tx uplink slots)
DTM Multislot Class: N/A



Figure 9-3
Power Measurement Setup

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9.2 UMTS Conducted Powers

Table 9-4
Maximum UMTS Average RF Conducted Powers

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	22.50	22.51	22.62	22.66	22.77	22.71	-
99		12.2 kbps AMR	22.31	22.42	22.52	22.56	22.70	22.61	-
6	HSDPA	Subtest 1	22.45	22.37	22.51	22.54	22.55	22.57	0
6		Subtest 2	22.44	22.31	22.52	22.59	22.57	22.61	0
6		Subtest 3	22.46	22.35	22.53	22.63	22.62	22.64	0.5
6		Subtest 4	22.33	22.25	22.39	22.26	22.25	22.31	0.5
6	HSUPA	Subtest 1	21.86	21.83	21.25	21.12	21.30	21.80	0
6		Subtest 2	20.82	20.88	20.94	20.67	20.72	20.75	2
6		Subtest 3	21.22	21.25	21.44	21.86	21.44	21.21	1
6		Subtest 4	21.11	21.08	21.17	21.07	21.05	21.15	2
6		Subtest 5	21.29	21.25	21.32	21.22	21.22	21.45	0
8	DC-HSDPA	Subtest 1	22.70	22.65	22.68	22.54	22.65	22.69	0
8		Subtest 2	22.71	22.69	22.75	22.53	22.59	22.73	0
8		Subtest 3	22.74	22.67	22.78	22.54	22.66	22.71	0.5
8		Subtest 4	22.72	22.65	22.79	22.48	22.57	22.74	0.5

Table 9-5
Reduced UMTS Average RF Conducted Powers
Representing Body at 0 mm

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	15.07	15.13	15.18	10.64	10.71	10.68	-
99		12.2 kbps AMR	15.01	15.07	15.11	10.60	10.66	10.67	-
6	HSDPA	Subtest 1	15.04	15.04	15.13	10.66	10.70	10.71	0
6		Subtest 2	14.99	15.02	15.09	10.62	10.68	10.74	0
6		Subtest 3	14.96	14.98	15.07	10.55	10.60	10.66	0.5
6		Subtest 4	14.97	15.00	15.03	10.63	10.67	10.67	0.5
6	HSUPA	Subtest 1	14.18	14.18	14.55	9.88	9.95	9.94	0
6		Subtest 2	14.46	14.00	13.99	9.87	9.64	10.26	2
6		Subtest 3	14.21	14.31	14.66	10.07	10.16	10.14	1
6		Subtest 4	14.80	14.73	14.15	9.58	9.60	9.64	2
6		Subtest 5	14.72	14.53	14.53	10.09	9.63	9.61	0
8	DC-HSDPA	Subtest 1	15.00	15.07	15.15	10.68	10.80	10.71	0
8		Subtest 2	15.28	15.25	15.30	10.60	10.79	10.82	0
8		Subtest 3	15.26	15.27	15.29	10.67	10.79	10.70	0.5
8		Subtest 4	15.25	15.25	15.28	10.65	10.73	10.82	0.5

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

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
- Measured maximum output powers for DC-HSDPA were not greater than 1/4 dB higher than the WCDMA 12.2 kbps RMC maximum output, as a result, SAR is not required for DC-HSDPA

It is expected by the manufacturer that MPR for some HSPA subtests may as low as 0 dB according to the chipset implementation in this model

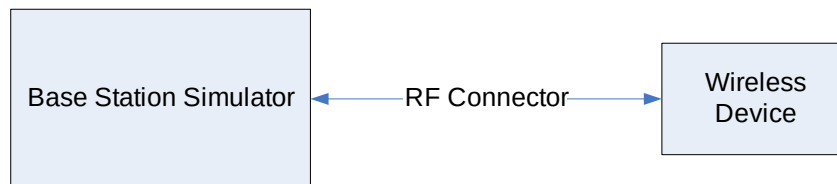


Figure 9-6
Power Measurement Setup

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9.3 LTE Conducted Powers

9.3.1

LTE Band 17

Table 9-7
Maximum LTE Band 17 Conducted Powers - 10 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	710.0	23790	10	QPSK	1	0	22.11	0	0
	710.0	23790	10	QPSK	1	25	22.07	0	0
	710.0	23790	10	QPSK	1	49	21.89	0	0
	710.0	23790	10	QPSK	25	0	21.21	0-1	1
	710.0	23790	10	QPSK	25	12	21.17	0-1	1
	710.0	23790	10	QPSK	25	25	21.07	0-1	1
	710.0	23790	10	QPSK	50	0	21.18	0-1	1
	710.0	23790	10	16QAM	1	0	21.04	0-1	1
	710.0	23790	10	16QAM	1	25	21.09	0-1	1
	710.0	23790	10	16QAM	1	49	20.85	0-1	1
	710.0	23790	10	16QAM	25	0	20.24	0-2	2
	710.0	23790	10	16QAM	25	12	20.20	0-2	2
	710.0	23790	10	16QAM	25	25	20.06	0-2	2
	710.0	23790	10	16QAM	50	0	20.13	0-2	2

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

Table 9-8
Reduced LTE Band 17 Conducted Powers - 10 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	710.0	23790	10	QPSK	1	0	14.50	0	0
	710.0	23790	10	QPSK	1	25	14.46	0	0
	710.0	23790	10	QPSK	1	49	14.44	0	0
	710.0	23790	10	QPSK	25	0	14.49	0-1	0
	710.0	23790	10	QPSK	25	12	14.48	0-1	0
	710.0	23790	10	QPSK	25	25	14.48	0-1	0
	710.0	23790	10	QPSK	50	0	14.40	0-1	0
	710.0	23790	10	16QAM	1	0	14.40	0-1	0
	710.0	23790	10	16QAM	1	25	14.34	0-1	0
	710.0	23790	10	16QAM	1	49	14.24	0-1	0
	710.0	23790	10	16QAM	25	0	14.43	0-2	0
	710.0	23790	10	16QAM	25	12	14.41	0-2	0
	710.0	23790	10	16QAM	25	25	14.42	0-2	0
	710.0	23790	10	16QAM	50	0	14.45	0-2	0

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

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Table 9-9
Maximum LTE Band 17 Conducted Powers - 5 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	710.0	23790	5	QPSK	1	0	22.20	0	0
	710.0	23790	5	QPSK	1	12	22.19	0	0
	710.0	23790	5	QPSK	1	24	22.14	0	0
	710.0	23790	5	QPSK	12	0	21.35	0-1	1
	710.0	23790	5	QPSK	12	6	21.29	0-1	1
	710.0	23790	5	QPSK	12	13	21.24	0-1	1
	710.0	23790	5	QPSK	25	0	21.32	0-1	1
	710.0	23790	5	16-QAM	1	0	21.29	0-1	1
	710.0	23790	5	16-QAM	1	12	21.26	0-1	1
	710.0	23790	5	16-QAM	1	24	21.20	0-1	1
	710.0	23790	5	16-QAM	12	0	20.35	0-2	2
	710.0	23790	5	16-QAM	12	6	20.26	0-2	2
	710.0	23790	5	16-QAM	12	13	20.25	0-2	2
	710.0	23790	5	16-QAM	25	0	20.32	0-2	2

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

Table 9-10
Reduced LTE Band 17 Conducted Powers - 5 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	710.0	23790	5	QPSK	1	0	14.50	0	0
	710.0	23790	5	QPSK	1	12	14.48	0	0
	710.0	23790	5	QPSK	1	24	14.46	0	0
	710.0	23790	5	QPSK	12	0	14.50	0-1	0
	710.0	23790	5	QPSK	12	6	14.47	0-1	0
	710.0	23790	5	QPSK	12	13	14.49	0-1	0
	710.0	23790	5	QPSK	25	0	14.50	0-1	0
	710.0	23790	5	16-QAM	1	0	14.32	0-1	0
	710.0	23790	5	16-QAM	1	12	14.33	0-1	0
	710.0	23790	5	16-QAM	1	24	14.23	0-1	0
	710.0	23790	5	16-QAM	12	0	14.47	0-2	0
	710.0	23790	5	16-QAM	12	6	14.45	0-2	0
	710.0	23790	5	16-QAM	12	13	14.47	0-2	0
	710.0	23790	5	16-QAM	25	0	14.42	0-2	0

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

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9.3.2

LTE Band 5 (Cell)

Table 9-11
Maximum LTE Band 5 (Cell) Conducted Powers - 10 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	836.5	20525	10	QPSK	1	0	22.32	0	0
	836.5	20525	10	QPSK	1	25	22.15	0	0
	836.5	20525	10	QPSK	1	49	22.00	0	0
	836.5	20525	10	QPSK	25	0	21.29	0-1	1
	836.5	20525	10	QPSK	25	12	21.23	0-1	1
	836.5	20525	10	QPSK	25	25	21.20	0-1	1
	836.5	20525	10	QPSK	50	0	21.28	0-1	1
	836.5	20525	10	16QAM	1	0	21.20	0-1	1
	836.5	20525	10	16QAM	1	25	21.12	0-1	1
	836.5	20525	10	16QAM	1	49	20.92	0-1	1
	836.5	20525	10	16QAM	25	0	20.31	0-2	2
	836.5	20525	10	16QAM	25	12	20.23	0-2	2
	836.5	20525	10	16QAM	25	25	20.19	0-2	2
	836.5	20525	10	16QAM	50	0	20.22	0-2	2

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

Table 9-12
Reduced LTE Band 5 (Cell) Conducted Powers - 10 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	836.5	20525	10	QPSK	1	0	9.95	0	0
	836.5	20525	10	QPSK	1	25	9.90	0	0
	836.5	20525	10	QPSK	1	49	9.63	0	0
	836.5	20525	10	QPSK	25	0	10.00	0-1	0
	836.5	20525	10	QPSK	25	12	9.94	0-1	0
	836.5	20525	10	QPSK	25	25	9.85	0-1	0
	836.5	20525	10	QPSK	50	0	9.94	0-1	0
	836.5	20525	10	16QAM	1	0	10.05	0-1	0
	836.5	20525	10	16QAM	1	25	10.01	0-1	0
	836.5	20525	10	16QAM	1	49	9.79	0-1	0
	836.5	20525	10	16QAM	25	0	9.95	0-2	0
	836.5	20525	10	16QAM	25	12	9.89	0-2	0
	836.5	20525	10	16QAM	25	25	9.77	0-2	0
	836.5	20525	10	16QAM	50	0	9.87	0-2	0

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

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Table 9-13
Maximum LTE Band 5 (Cell) Conducted Powers - 5 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	826.5	20425	5	QPSK	1	0	22.43	0	0
	826.5	20425	5	QPSK	1	12	22.38	0	0
	826.5	20425	5	QPSK	1	24	22.40	0	0
	826.5	20425	5	QPSK	12	0	21.42	0-1	1
	826.5	20425	5	QPSK	12	6	21.34	0-1	1
	826.5	20425	5	QPSK	12	13	21.40	0-1	1
	826.5	20425	5	QPSK	25	0	21.38	0-1	1
	826.5	20425	5	16-QAM	1	0	21.28	0-1	1
	826.5	20425	5	16-QAM	1	12	21.26	0-1	1
	826.5	20425	5	16-QAM	1	24	21.33	0-1	1
	826.5	20425	5	16-QAM	12	0	20.38	0-2	2
	826.5	20425	5	16-QAM	12	6	20.33	0-2	2
	826.5	20425	5	16-QAM	12	13	20.35	0-2	2
	826.5	20425	5	16-QAM	25	0	20.41	0-2	2
Mid	836.5	20525	5	QPSK	1	0	22.37	0	0
	836.5	20525	5	QPSK	1	12	22.28	0	0
	836.5	20525	5	QPSK	1	24	22.28	0	0
	836.5	20525	5	QPSK	12	0	21.36	0-1	1
	836.5	20525	5	QPSK	12	6	21.29	0-1	1
	836.5	20525	5	QPSK	12	13	21.28	0-1	1
	836.5	20525	5	QPSK	25	0	21.30	0-1	1
	836.5	20525	5	16-QAM	1	0	21.31	0-1	1
	836.5	20525	5	16-QAM	1	12	21.18	0-1	1
	836.5	20525	5	16-QAM	1	24	21.17	0-1	1
	836.5	20525	5	16-QAM	12	0	20.36	0-2	2
	836.5	20525	5	16-QAM	12	6	20.40	0-2	2
	836.5	20525	5	16-QAM	12	13	20.25	0-2	2
	836.5	20525	5	16-QAM	25	0	20.45	0-2	2
High	846.5	20625	5	QPSK	1	0	22.41	0	0
	846.5	20625	5	QPSK	1	12	22.25	0	0
	846.5	20625	5	QPSK	1	24	22.20	0	0
	846.5	20625	5	QPSK	12	0	21.33	0-1	1
	846.5	20625	5	QPSK	12	6	21.27	0-1	1
	846.5	20625	5	QPSK	12	13	21.29	0-1	1
	846.5	20625	5	QPSK	25	0	21.25	0-1	1
	846.5	20625	5	16-QAM	1	0	21.07	0-1	1
	846.5	20625	5	16-QAM	1	12	21.09	0-1	1
	846.5	20625	5	16-QAM	1	24	21.06	0-1	1
	846.5	20625	5	16-QAM	12	0	20.20	0-2	2
	846.5	20625	5	16-QAM	12	6	20.15	0-2	2
	846.5	20625	5	16-QAM	12	13	20.12	0-2	2
	846.5	20625	5	16-QAM	25	0	20.23	0-2	2

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Table 9-14
Reduced LTE Band 5 (Cell) Conducted Powers - 5 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	826.5	20425	5	QPSK	1	0	9.96	0	0
	826.5	20425	5	QPSK	1	12	10.00	0	0
	826.5	20425	5	QPSK	1	24	9.96	0	0
	826.5	20425	5	QPSK	12	0	10.04	0-1	0
	826.5	20425	5	QPSK	12	6	10.03	0-1	0
	826.5	20425	5	QPSK	12	13	10.00	0-1	0
	826.5	20425	5	QPSK	25	0	10.02	0-1	0
	826.5	20425	5	16-QAM	1	0	10.14	0-1	0
	826.5	20425	5	16-QAM	1	12	10.18	0-1	0
	826.5	20425	5	16-QAM	1	24	10.13	0-1	0
	826.5	20425	5	16-QAM	12	0	10.02	0-2	0
	826.5	20425	5	16-QAM	12	6	9.98	0-2	0
	826.5	20425	5	16-QAM	12	13	9.97	0-2	0
	826.5	20425	5	16-QAM	25	0	9.94	0-2	0
Mid	836.5	20525	5	QPSK	1	0	9.98	0	0
	836.5	20525	5	QPSK	1	12	9.95	0	0
	836.5	20525	5	QPSK	1	24	9.88	0	0
	836.5	20525	5	QPSK	12	0	10.01	0-1	0
	836.5	20525	5	QPSK	12	6	9.97	0-1	0
	836.5	20525	5	QPSK	12	13	9.92	0-1	0
	836.5	20525	5	QPSK	25	0	9.94	0-1	0
	836.5	20525	5	16-QAM	1	0	10.24	0-1	0
	836.5	20525	5	16-QAM	1	12	10.18	0-1	0
	836.5	20525	5	16-QAM	1	24	10.06	0-1	0
	836.5	20525	5	16-QAM	12	0	9.95	0-2	0
	836.5	20525	5	16-QAM	12	6	9.92	0-2	0
	836.5	20525	5	16-QAM	12	13	9.87	0-2	0
	836.5	20525	5	16-QAM	25	0	9.89	0-2	0
High	846.5	20625	5	QPSK	1	0	9.80	0	0
	846.5	20625	5	QPSK	1	12	9.81	0	0
	846.5	20625	5	QPSK	1	24	9.73	0	0
	846.5	20625	5	QPSK	12	0	9.83	0-1	0
	846.5	20625	5	QPSK	12	6	9.78	0-1	0
	846.5	20625	5	QPSK	12	13	9.77	0-1	0
	846.5	20625	5	QPSK	25	0	9.81	0-1	0
	846.5	20625	5	16-QAM	1	0	10.00	0-1	0
	846.5	20625	5	16-QAM	1	12	10.01	0-1	0
	846.5	20625	5	16-QAM	1	24	9.97	0-1	0
	846.5	20625	5	16-QAM	12	0	9.77	0-2	0
	846.5	20625	5	16-QAM	12	6	9.75	0-2	0
	846.5	20625	5	16-QAM	12	13	9.73	0-2	0
	846.5	20625	5	16-QAM	25	0	9.72	0-2	0

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Table 9-15
Maximum LTE Band 5 (Cell) Conducted Powers - 3 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	825.5	20415	3	QPSK	1	0	22.21	0	0
	825.5	20415	3	QPSK	1	7	22.23	0	0
	825.5	20415	3	QPSK	1	14	22.21	0	0
	825.5	20415	3	QPSK	8	0	21.34	0-1	1
	825.5	20415	3	QPSK	8	4	21.34	0-1	1
	825.5	20415	3	QPSK	8	7	21.31	0-1	1
	825.5	20415	3	QPSK	15	0	21.44	0-1	1
	825.5	20415	3	16-QAM	1	0	21.39	0-1	1
	825.5	20415	3	16-QAM	1	7	21.49	0-1	1
	825.5	20415	3	16-QAM	1	14	21.50	0-1	1
	825.5	20415	3	16-QAM	8	0	20.41	0-2	2
	825.5	20415	3	16-QAM	8	4	20.33	0-2	2
	825.5	20415	3	16-QAM	8	7	20.38	0-2	2
	825.5	20415	3	16-QAM	15	0	20.39	0-2	2
Mid	836.5	20525	3	QPSK	1	0	22.15	0	0
	836.5	20525	3	QPSK	1	7	22.14	0	0
	836.5	20525	3	QPSK	1	14	22.10	0	0
	836.5	20525	3	QPSK	8	0	21.28	0-1	1
	836.5	20525	3	QPSK	8	4	21.25	0-1	1
	836.5	20525	3	QPSK	8	7	21.19	0-1	1
	836.5	20525	3	QPSK	15	0	21.30	0-1	1
	836.5	20525	3	16-QAM	1	0	21.18	0-1	1
	836.5	20525	3	16-QAM	1	7	21.17	0-1	1
	836.5	20525	3	16-QAM	1	14	21.05	0-1	1
	836.5	20525	3	16-QAM	8	0	20.42	0-2	2
	836.5	20525	3	16-QAM	8	4	20.48	0-2	2
	836.5	20525	3	16-QAM	8	7	20.35	0-2	2
	836.5	20525	3	16-QAM	15	0	20.26	0-2	2
High	847.5	20635	3	QPSK	1	0	22.08	0	0
	847.5	20635	3	QPSK	1	7	22.03	0	0
	847.5	20635	3	QPSK	1	14	22.03	0	0
	847.5	20635	3	QPSK	8	0	21.18	0-1	1
	847.5	20635	3	QPSK	8	4	21.11	0-1	1
	847.5	20635	3	QPSK	8	7	21.10	0-1	1
	847.5	20635	3	QPSK	15	0	21.17	0-1	1
	847.5	20635	3	16-QAM	1	0	21.15	0-1	1
	847.5	20635	3	16-QAM	1	7	21.04	0-1	1
	847.5	20635	3	16-QAM	1	14	21.00	0-1	1
	847.5	20635	3	16-QAM	8	0	20.18	0-2	2
	847.5	20635	3	16-QAM	8	4	20.16	0-2	2
	847.5	20635	3	16-QAM	8	7	20.20	0-2	2
	847.5	20635	3	16-QAM	15	0	20.15	0-2	2

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Table 9-16
Reduced LTE Band 5 (Cell) Conducted Powers - 3 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	825.5	20415	3	QPSK	1	0	9.88	0	0
	825.5	20415	3	QPSK	1	7	9.96	0	0
	825.5	20415	3	QPSK	1	14	9.91	0	0
	825.5	20415	3	QPSK	8	0	10.02	0-1	0
	825.5	20415	3	QPSK	8	4	9.98	0-1	0
	825.5	20415	3	QPSK	8	7	9.99	0-1	0
	825.5	20415	3	QPSK	15	0	10.01	0-1	0
	825.5	20415	3	16-QAM	1	0	10.05	0-1	0
	825.5	20415	3	16-QAM	1	7	10.18	0-1	0
	825.5	20415	3	16-QAM	1	14	10.10	0-1	0
	825.5	20415	3	16-QAM	8	0	10.00	0-2	0
	825.5	20415	3	16-QAM	8	4	9.97	0-2	0
Mid	825.5	20415	3	16-QAM	8	7	9.97	0-2	0
	825.5	20415	3	16-QAM	15	0	9.95	0-2	0
	836.5	20525	3	QPSK	1	0	9.91	0	0
	836.5	20525	3	QPSK	1	7	9.88	0	0
	836.5	20525	3	QPSK	1	14	9.82	0	0
	836.5	20525	3	QPSK	8	0	9.95	0-1	0
	836.5	20525	3	QPSK	8	4	9.92	0-1	0
	836.5	20525	3	QPSK	8	7	9.91	0-1	0
	836.5	20525	3	QPSK	15	0	9.93	0-1	0
	836.5	20525	3	16-QAM	1	0	10.07	0-1	0
	836.5	20525	3	16-QAM	1	7	10.11	0-1	0
	836.5	20525	3	16-QAM	1	14	10.01	0-1	0
High	847.5	20635	3	16-QAM	8	0	9.92	0-2	0
	847.5	20635	3	16-QAM	8	4	9.90	0-2	0
	847.5	20635	3	16-QAM	8	7	9.89	0-2	0
	847.5	20635	3	16-QAM	15	0	9.84	0-2	0
	847.5	20635	3	QPSK	1	0	9.72	0	0
	847.5	20635	3	QPSK	1	7	9.73	0	0
	847.5	20635	3	QPSK	1	14	9.70	0	0
	847.5	20635	3	QPSK	8	0	9.79	0-1	0
	847.5	20635	3	QPSK	8	4	9.78	0-1	0
	847.5	20635	3	QPSK	8	7	9.77	0-1	0
	847.5	20635	3	QPSK	15	0	9.81	0-1	0
	847.5	20635	3	16-QAM	1	0	9.90	0-1	0
	847.5	20635	3	16-QAM	1	7	9.98	0-1	0
	847.5	20635	3	16-QAM	1	14	9.92	0-1	0
	847.5	20635	3	16-QAM	8	0	9.75	0-2	0
	847.5	20635	3	16-QAM	8	4	9.78	0-2	0
	847.5	20635	3	16-QAM	8	7	9.76	0-2	0
	847.5	20635	3	16-QAM	15	0	9.71	0-2	0

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Table 9-17
Maximum LTE Band 5 (Cell) Conducted Powers -1.4 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	824.7	20407	1.4	QPSK	1	0	22.28	0	0
	824.7	20407	1.4	QPSK	1	2	22.27	0	0
	824.7	20407	1.4	QPSK	1	5	22.31	0	0
	824.7	20407	1.4	QPSK	3	0	22.43	0	0
	824.7	20407	1.4	QPSK	3	2	22.43	0	0
	824.7	20407	1.4	QPSK	3	3	22.40	0	0
	824.7	20407	1.4	QPSK	6	0	21.46	0-1	1
	824.7	20407	1.4	16-QAM	1	0	21.48	0-1	1
	824.7	20407	1.4	16-QAM	1	2	21.46	0-1	1
	824.7	20407	1.4	16-QAM	1	5	21.44	0-1	1
	824.7	20407	1.4	16-QAM	3	0	21.37	0-1	1
	824.7	20407	1.4	16-QAM	3	2	21.45	0-1	1
	824.7	20407	1.4	16-QAM	3	3	21.44	0-1	1
Mid	824.7	20407	1.4	16-QAM	6	0	20.28	0-2	2
	836.5	20525	1.4	QPSK	1	0	22.37	0	0
	836.5	20525	1.4	QPSK	1	2	22.36	0	0
	836.5	20525	1.4	QPSK	1	5	22.37	0	0
	836.5	20525	1.4	QPSK	3	0	22.30	0	0
	836.5	20525	1.4	QPSK	3	2	22.28	0	0
	836.5	20525	1.4	QPSK	3	3	22.29	0	0
	836.5	20525	1.4	QPSK	6	0	21.26	0-1	1
	836.5	20525	1.4	16-QAM	1	0	21.28	0-1	1
	836.5	20525	1.4	16-QAM	1	2	21.26	0-1	1
	836.5	20525	1.4	16-QAM	1	5	21.27	0-1	1
	836.5	20525	1.4	16-QAM	3	0	21.35	0-1	1
	836.5	20525	1.4	16-QAM	3	2	21.34	0-1	1
High	836.5	20525	1.4	16-QAM	3	3	21.33	0-1	1
	836.5	20525	1.4	16-QAM	6	0	20.36	0-2	2
	848.3	20643	1.4	QPSK	1	0	22.15	0	0
	848.3	20643	1.4	QPSK	1	2	22.13	0	0
	848.3	20643	1.4	QPSK	1	5	22.13	0	0
	848.3	20643	1.4	QPSK	3	0	22.24	0	0
	848.3	20643	1.4	QPSK	3	2	22.20	0	0
	848.3	20643	1.4	QPSK	3	3	22.17	0	0
	848.3	20643	1.4	QPSK	6	0	21.22	0-1	1
	848.3	20643	1.4	16-QAM	1	0	21.20	0-1	1
	848.3	20643	1.4	16-QAM	1	2	21.18	0-1	1
	848.3	20643	1.4	16-QAM	1	5	21.21	0-1	1
	848.3	20643	1.4	16-QAM	3	0	21.40	0-1	1
	848.3	20643	1.4	16-QAM	3	2	21.35	0-1	1
	848.3	20643	1.4	16-QAM	3	3	21.34	0-1	1
	848.3	20643	1.4	16-QAM	6	0	20.41	0-2	2

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Table 9-18
Reduced LTE Band 5 (Cell) Conducted Powers -1.4 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	824.7	20407	1.4	QPSK	1	0	9.98	0	0
	824.7	20407	1.4	QPSK	1	2	9.97	0	0
	824.7	20407	1.4	QPSK	1	5	10.02	0	0
	824.7	20407	1.4	QPSK	3	0	10.01	0	0
	824.7	20407	1.4	QPSK	3	2	10.00	0	0
	824.7	20407	1.4	QPSK	3	3	10.07	0	0
	824.7	20407	1.4	QPSK	6	0	9.99	0-1	0
	824.7	20407	1.4	16-QAM	1	0	10.22	0-1	0
	824.7	20407	1.4	16-QAM	1	2	10.17	0-1	0
	824.7	20407	1.4	16-QAM	1	5	10.24	0-1	0
	824.7	20407	1.4	16-QAM	3	0	10.07	0-1	0
	824.7	20407	1.4	16-QAM	3	2	10.06	0-1	0
	824.7	20407	1.4	16-QAM	3	3	10.13	0-1	0
Mid	824.7	20407	1.4	16-QAM	6	0	9.97	0-2	0
	836.5	20525	1.4	QPSK	1	0	9.95	0	0
	836.5	20525	1.4	QPSK	1	2	9.94	0	0
	836.5	20525	1.4	QPSK	1	5	9.94	0	0
	836.5	20525	1.4	QPSK	3	0	10.01	0	0
	836.5	20525	1.4	QPSK	3	2	9.99	0	0
	836.5	20525	1.4	QPSK	3	3	10.00	0	0
	836.5	20525	1.4	QPSK	6	0	10.00	0-1	0
	836.5	20525	1.4	16-QAM	1	0	10.21	0-1	0
	836.5	20525	1.4	16-QAM	1	2	10.17	0-1	0
	836.5	20525	1.4	16-QAM	1	5	10.20	0-1	0
	836.5	20525	1.4	16-QAM	3	0	10.07	0-1	0
	836.5	20525	1.4	16-QAM	3	2	10.06	0-1	0
High	836.5	20525	1.4	16-QAM	3	3	10.05	0-1	0
	836.5	20525	1.4	16-QAM	6	0	9.98	0-2	0
	848.3	20643	1.4	QPSK	1	0	9.81	0	0
	848.3	20643	1.4	QPSK	1	2	9.80	0	0
	848.3	20643	1.4	QPSK	1	5	9.78	0	0
	848.3	20643	1.4	QPSK	3	0	9.85	0	0
	848.3	20643	1.4	QPSK	3	2	9.84	0	0
	848.3	20643	1.4	QPSK	3	3	9.84	0	0
	848.3	20643	1.4	QPSK	6	0	9.84	0-1	0
	848.3	20643	1.4	16-QAM	1	0	10.04	0-1	0
	848.3	20643	1.4	16-QAM	1	2	10.06	0-1	0
	848.3	20643	1.4	16-QAM	1	5	10.05	0-1	0
	848.3	20643	1.4	16-QAM	3	0	9.92	0-1	0
	848.3	20643	1.4	16-QAM	3	2	9.93	0-1	0
	848.3	20643	1.4	16-QAM	3	3	9.91	0-1	0
	848.3	20643	1.4	16-QAM	6	0	9.83	0-2	0

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9.3.3

LTE Band 4 (AWS)

Table 9-19
Maximum LTE Band 4 (AWS) Conducted Powers - 20 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	1732.5	20175	20	QPSK	1	0	23.00	0	0
	1732.5	20175	20	QPSK	1	50	22.57	0	0
	1732.5	20175	20	QPSK	1	99	22.66	0	0
	1732.5	20175	20	QPSK	50	0	21.93	0-1	1
	1732.5	20175	20	QPSK	50	25	21.75	0-1	1
	1732.5	20175	20	QPSK	50	50	21.79	0-1	1
	1732.5	20175	20	QPSK	100	0	21.80	0-1	1
	1732.5	20175	20	16QAM	1	0	22.00	0-1	1
	1732.5	20175	20	16QAM	1	50	21.65	0-1	1
	1732.5	20175	20	16QAM	1	99	21.74	0-1	1
	1732.5	20175	20	16QAM	50	0	20.99	0-2	2
	1732.5	20175	20	16QAM	50	25	20.74	0-2	2
	1732.5	20175	20	16QAM	50	50	20.79	0-2	2
	1732.5	20175	20	16QAM	100	0	20.82	0-2	2

Note: LTE Band 4 (AWS) at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 9-20
Reduced LTE Band 4 (AWS) Conducted Powers - 20 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Mid	1732.5	20175	20	QPSK	1	0	10.40	0	0
	1732.5	20175	20	QPSK	1	50	10.01	0	0
	1732.5	20175	20	QPSK	1	99	9.98	0	0
	1732.5	20175	20	QPSK	50	0	10.34	0-1	0
	1732.5	20175	20	QPSK	50	25	10.14	0-1	0
	1732.5	20175	20	QPSK	50	50	10.17	0-1	0
	1732.5	20175	20	QPSK	100	0	10.27	0-1	0
	1732.5	20175	20	16QAM	1	0	10.47	0-1	0
	1732.5	20175	20	16QAM	1	50	10.16	0-1	0
	1732.5	20175	20	16QAM	1	99	10.13	0-1	0
	1732.5	20175	20	16QAM	50	0	10.27	0-2	0
	1732.5	20175	20	16QAM	50	25	10.06	0-2	0
	1732.5	20175	20	16QAM	50	50	10.10	0-2	0
	1732.5	20175	20	16QAM	100	0	10.19	0-2	0

Note: LTE Band 4 (AWS) 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 9-21
Maximum LTE Band 4 (AWS) Conducted Powers - 15 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1717.5	20025	15	QPSK	1	0	22.94	0	0
	1717.5	20025	15	QPSK	1	36	22.61	0	0
	1717.5	20025	15	QPSK	1	74	22.59	0	0
	1717.5	20025	15	QPSK	36	0	21.94	0-1	1
	1717.5	20025	15	QPSK	36	18	21.70	0-1	1
	1717.5	20025	15	QPSK	36	37	21.82	0-1	1
	1717.5	20025	15	QPSK	75	0	21.81	0-1	1
	1717.5	20025	15	16QAM	1	0	21.92	0-1	1
	1717.5	20025	15	16QAM	1	36	21.71	0-1	1
	1717.5	20025	15	16QAM	1	74	21.60	0-1	1
	1717.5	20025	15	16QAM	36	0	20.84	0-2	2
	1717.5	20025	15	16QAM	36	18	20.62	0-2	2
	1717.5	20025	15	16QAM	36	37	20.64	0-2	2
Mid	1732.5	20175	15	QPSK	1	0	23.00	0	0
	1732.5	20175	15	QPSK	1	36	22.70	0	0
	1732.5	20175	15	QPSK	1	74	22.93	0	0
	1732.5	20175	15	QPSK	36	0	22.00	0-1	1
	1732.5	20175	15	QPSK	36	18	21.85	0-1	1
	1732.5	20175	15	QPSK	36	37	21.91	0-1	1
	1732.5	20175	15	QPSK	75	0	21.92	0-1	1
	1732.5	20175	15	16QAM	1	0	22.00	0-1	1
	1732.5	20175	15	16QAM	1	36	21.65	0-1	1
	1732.5	20175	15	16QAM	1	74	21.93	0-1	1
	1732.5	20175	15	16QAM	36	0	20.98	0-2	2
	1732.5	20175	15	16QAM	36	18	20.75	0-2	2
	1732.5	20175	15	16QAM	36	37	20.84	0-2	2
	1732.5	20175	15	16QAM	75	0	20.81	0-2	2
High	1747.5	20325	15	QPSK	1	0	23.00	0	0
	1747.5	20325	15	QPSK	1	36	22.94	0	0
	1747.5	20325	15	QPSK	1	74	22.82	0	0
	1747.5	20325	15	QPSK	36	0	22.00	0-1	1
	1747.5	20325	15	QPSK	36	18	21.97	0-1	1
	1747.5	20325	15	QPSK	36	37	21.92	0-1	1
	1747.5	20325	15	QPSK	75	0	21.99	0-1	1
	1747.5	20325	15	16QAM	1	0	21.99	0-1	1
	1747.5	20325	15	16QAM	1	36	21.92	0-1	1
	1747.5	20325	15	16QAM	1	74	21.70	0-1	1
	1747.5	20325	15	16QAM	36	0	21.00	0-2	2
	1747.5	20325	15	16QAM	36	18	20.84	0-2	2
	1747.5	20325	15	16QAM	36	37	20.77	0-2	2
	1747.5	20325	15	16QAM	75	0	20.81	0-2	2

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Table 9-22
Reduced LTE Band 4 (AWS) Conducted Powers - 15 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1715	20000	10	QPSK	1	0	9.84	0	0
	1715	20000	10	QPSK	1	25	9.62	0	0
	1715	20000	10	QPSK	1	49	9.60	0	0
	1715	20000	10	QPSK	25	0	9.76	0-1	0
	1715	20000	10	QPSK	25	12	9.66	0-1	0
	1715	20000	10	QPSK	25	25	9.64	0-1	0
	1715	20000	10	QPSK	50	0	9.70	0-1	0
	1715	20000	10	16QAM	1	0	10.07	0-1	0
	1715	20000	10	16QAM	1	25	9.85	0-1	0
	1715	20000	10	16QAM	1	49	9.83	0-1	0
	1715	20000	10	16QAM	25	0	9.70	0-2	0
	1715	20000	10	16QAM	25	12	9.60	0-2	0
	1715	20000	10	16QAM	25	25	9.58	0-2	0
	1715	20000	10	16QAM	50	0	9.64	0-2	0
Mid	1732.5	20175	10	QPSK	1	0	10.09	0	0
	1732.5	20175	10	QPSK	1	25	9.91	0	0
	1732.5	20175	10	QPSK	1	49	9.96	0	0
	1732.5	20175	10	QPSK	25	0	10.03	0-1	0
	1732.5	20175	10	QPSK	25	12	9.94	0-1	0
	1732.5	20175	10	QPSK	25	25	9.96	0-1	0
	1732.5	20175	10	QPSK	50	0	9.99	0-1	0
	1732.5	20175	10	16QAM	1	0	10.29	0-1	0
	1732.5	20175	10	16QAM	1	25	10.08	0-1	0
	1732.5	20175	10	16QAM	1	49	10.13	0-1	0
	1732.5	20175	10	16QAM	25	0	10.00	0-2	0
	1732.5	20175	10	16QAM	25	12	9.89	0-2	0
	1732.5	20175	10	16QAM	25	25	9.88	0-2	0
	1732.5	20175	10	16QAM	50	0	9.94	0-2	0
High	1750	20350	10	QPSK	1	0	10.35	0	0
	1750	20350	10	QPSK	1	25	10.04	0	0
	1750	20350	10	QPSK	1	49	10.02	0	0
	1750	20350	10	QPSK	25	0	10.21	0-1	0
	1750	20350	10	QPSK	25	12	10.11	0-1	0
	1750	20350	10	QPSK	25	25	10.08	0-1	0
	1750	20350	10	QPSK	50	0	10.13	0-1	0
	1750	20350	10	16QAM	1	0	10.36	0-1	0
	1750	20350	10	16QAM	1	25	10.05	0-1	0
	1750	20350	10	16QAM	1	49	10.01	0-1	0
	1750	20350	10	16QAM	25	0	10.20	0-2	0
	1750	20350	10	16QAM	25	12	10.11	0-2	0
	1750	20350	10	16QAM	25	25	10.08	0-2	0
	1750	20350	10	16QAM	50	0	10.12	0-2	0

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Table 9-23
Maximum LTE Band 4 (AWS) Conducted Powers - 10 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1715	20000	10	QPSK	1	0	22.73	0	0
	1715	20000	10	QPSK	1	25	22.50	0	0
	1715	20000	10	QPSK	1	49	22.51	0	0
	1715	20000	10	QPSK	25	0	21.76	0-1	1
	1715	20000	10	QPSK	25	12	21.63	0-1	1
	1715	20000	10	QPSK	25	25	21.64	0-1	1
	1715	20000	10	QPSK	50	0	21.74	0-1	1
	1715	20000	10	16QAM	1	0	21.89	0-1	1
	1715	20000	10	16QAM	1	25	21.64	0-1	1
	1715	20000	10	16QAM	1	49	21.60	0-1	1
	1715	20000	10	16QAM	25	0	20.74	0-2	2
	1715	20000	10	16QAM	25	12	20.61	0-2	2
	1715	20000	10	16QAM	25	25	20.57	0-2	2
	1715	20000	10	16QAM	50	0	20.66	0-2	2
Mid	1732.5	20175	10	QPSK	1	0	22.78	0	0
	1732.5	20175	10	QPSK	1	25	22.72	0	0
	1732.5	20175	10	QPSK	1	49	22.63	0	0
	1732.5	20175	10	QPSK	25	0	21.73	0-1	1
	1732.5	20175	10	QPSK	25	12	21.65	0-1	1
	1732.5	20175	10	QPSK	25	25	21.70	0-1	1
	1732.5	20175	10	QPSK	50	0	21.72	0-1	1
	1732.5	20175	10	16QAM	1	0	21.75	0-1	1
	1732.5	20175	10	16QAM	1	25	21.64	0-1	1
	1732.5	20175	10	16QAM	1	49	21.54	0-1	1
	1732.5	20175	10	16QAM	25	0	20.75	0-2	2
	1732.5	20175	10	16QAM	25	12	20.62	0-2	2
	1732.5	20175	10	16QAM	25	25	20.65	0-2	2
	1732.5	20175	10	16QAM	50	0	20.63	0-2	2
High	1750	20350	10	QPSK	1	0	23.00	0	0
	1750	20350	10	QPSK	1	25	22.85	0	0
	1750	20350	10	QPSK	1	49	22.77	0	0
	1750	20350	10	QPSK	25	0	22.00	0-1	1
	1750	20350	10	QPSK	25	12	21.93	0-1	1
	1750	20350	10	QPSK	25	25	21.86	0-1	1
	1750	20350	10	QPSK	50	0	21.95	0-1	1
	1750	20350	10	16QAM	1	0	22.00	0-1	1
	1750	20350	10	16QAM	1	25	21.84	0-1	1
	1750	20350	10	16QAM	1	49	21.76	0-1	1
	1750	20350	10	16QAM	25	0	20.99	0-2	2
	1750	20350	10	16QAM	25	12	20.88	0-2	2
	1750	20350	10	16QAM	25	25	20.82	0-2	2
	1750	20350	10	16QAM	50	0	20.86	0-2	2

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Table 9-24
Reduced LTE Band 4 (AWS) Conducted Powers - 10 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1712.5	19975	5	QPSK	1	0	9.68	0	0
	1712.5	19975	5	QPSK	1	12	9.58	0	0
	1712.5	19975	5	QPSK	1	24	9.57	0	0
	1712.5	19975	5	QPSK	12	0	9.63	0-1	0
	1712.5	19975	5	QPSK	12	6	9.58	0-1	0
	1712.5	19975	5	QPSK	12	13	9.57	0-1	0
	1712.5	19975	5	QPSK	25	0	9.60	0-1	0
	1712.5	19975	5	16-QAM	1	0	9.91	0-1	0
	1712.5	19975	5	16-QAM	1	12	9.79	0-1	0
	1712.5	19975	5	16-QAM	1	24	9.80	0-1	0
	1712.5	19975	5	16-QAM	12	0	9.58	0-2	0
	1712.5	19975	5	16-QAM	12	6	9.53	0-2	0
	1712.5	19975	5	16-QAM	12	13	9.51	0-2	0
	1712.5	19975	5	16-QAM	25	0	9.50	0-2	0
Mid	1732.5	20175	5	QPSK	1	0	9.93	0	0
	1732.5	20175	5	QPSK	1	12	9.86	0	0
	1732.5	20175	5	QPSK	1	24	9.85	0	0
	1732.5	20175	5	QPSK	12	0	9.97	0-1	0
	1732.5	20175	5	QPSK	12	6	9.89	0-1	0
	1732.5	20175	5	QPSK	12	13	9.86	0-1	0
	1732.5	20175	5	QPSK	25	0	9.88	0-1	0
	1732.5	20175	5	16-QAM	1	0	10.15	0-1	0
	1732.5	20175	5	16-QAM	1	12	10.06	0-1	0
	1732.5	20175	5	16-QAM	1	24	10.08	0-1	0
	1732.5	20175	5	16-QAM	12	0	9.86	0-2	0
	1732.5	20175	5	16-QAM	12	6	9.87	0-2	0
	1732.5	20175	5	16-QAM	12	13	9.86	0-2	0
	1732.5	20175	5	16-QAM	25	0	9.84	0-2	0
High	1752.5	20375	5	QPSK	1	0	10.11	0	0
	1752.5	20375	5	QPSK	1	12	10.01	0	0
	1752.5	20375	5	QPSK	1	24	9.98	0	0
	1752.5	20375	5	QPSK	12	0	10.08	0-1	0
	1752.5	20375	5	QPSK	12	6	10.02	0-1	0
	1752.5	20375	5	QPSK	12	13	10.05	0-1	0
	1752.5	20375	5	QPSK	25	0	10.10	0-1	0
	1752.5	20375	5	16-QAM	1	0	10.42	0-1	0
	1752.5	20375	5	16-QAM	1	12	10.36	0-1	0
	1752.5	20375	5	16-QAM	1	24	10.30	0-1	0
	1752.5	20375	5	16-QAM	12	0	10.11	0-2	0
	1752.5	20375	5	16-QAM	12	6	10.07	0-2	0
	1752.5	20375	5	16-QAM	12	13	10.03	0-2	0
	1752.5	20375	5	16-QAM	25	0	10.05	0-2	0

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Table 9-25
Maximum LTE Band 4 (AWS) Conducted Powers - 5 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1712.5	19975	5	QPSK	1	0	22.88	0	0
	1712.5	19975	5	QPSK	1	12	22.71	0	0
	1712.5	19975	5	QPSK	1	24	22.78	0	0
	1712.5	19975	5	QPSK	12	0	21.74	0-1	1
	1712.5	19975	5	QPSK	12	6	21.69	0-1	1
	1712.5	19975	5	QPSK	12	13	21.67	0-1	1
	1712.5	19975	5	QPSK	25	0	21.67	0-1	1
	1712.5	19975	5	16-QAM	1	0	22.00	0-1	1
	1712.5	19975	5	16-QAM	1	12	21.88	0-1	1
	1712.5	19975	5	16-QAM	1	24	21.94	0-1	1
	1712.5	19975	5	16-QAM	12	0	20.69	0-2	2
	1712.5	19975	5	16-QAM	12	6	20.67	0-2	2
	1712.5	19975	5	16-QAM	12	13	20.67	0-2	2
Mid	1732.5	20175	5	QPSK	1	0	22.90	0	0
	1732.5	20175	5	QPSK	1	12	22.81	0	0
	1732.5	20175	5	QPSK	1	24	22.83	0	0
	1732.5	20175	5	QPSK	12	0	21.80	0-1	1
	1732.5	20175	5	QPSK	12	6	21.79	0-1	1
	1732.5	20175	5	QPSK	12	13	21.79	0-1	1
	1732.5	20175	5	QPSK	25	0	21.84	0-1	1
	1732.5	20175	5	16-QAM	1	0	21.77	0-1	1
	1732.5	20175	5	16-QAM	1	12	21.59	0-1	1
	1732.5	20175	5	16-QAM	1	24	21.70	0-1	1
	1732.5	20175	5	16-QAM	12	0	20.74	0-2	2
	1732.5	20175	5	16-QAM	12	6	20.66	0-2	2
	1732.5	20175	5	16-QAM	12	13	20.65	0-2	2
	1732.5	20175	5	16-QAM	25	0	20.74	0-2	2
High	1752.5	20375	5	QPSK	1	0	23.00	0	0
	1752.5	20375	5	QPSK	1	12	22.93	0	0
	1752.5	20375	5	QPSK	1	24	22.97	0	0
	1752.5	20375	5	QPSK	12	0	22.00	0-1	1
	1752.5	20375	5	QPSK	12	6	21.90	0-1	1
	1752.5	20375	5	QPSK	12	13	21.90	0-1	1
	1752.5	20375	5	QPSK	25	0	21.98	0-1	1
	1752.5	20375	5	16-QAM	1	0	21.98	0-1	1
	1752.5	20375	5	16-QAM	1	12	21.99	0-1	1
	1752.5	20375	5	16-QAM	1	24	22.00	0-1	1
	1752.5	20375	5	16-QAM	12	0	20.94	0-2	2
	1752.5	20375	5	16-QAM	12	6	20.87	0-2	2
	1752.5	20375	5	16-QAM	12	13	20.84	0-2	2
	1752.5	20375	5	16-QAM	25	0	20.82	0-2	2

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Table 9-26
Reduced LTE Band 4 (AWS) Conducted Powers - 5 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1712.5	19975	5	QPSK	1	0	9.68	0	0
	1712.5	19975	5	QPSK	1	12	9.58	0	0
	1712.5	19975	5	QPSK	1	24	9.57	0	0
	1712.5	19975	5	QPSK	12	0	9.63	0-1	0
	1712.5	19975	5	QPSK	12	6	9.58	0-1	0
	1712.5	19975	5	QPSK	12	13	9.57	0-1	0
	1712.5	19975	5	QPSK	25	0	9.60	0-1	0
	1712.5	19975	5	16-QAM	1	0	9.91	0-1	0
	1712.5	19975	5	16-QAM	1	12	9.79	0-1	0
	1712.5	19975	5	16-QAM	1	24	9.80	0-1	0
	1712.5	19975	5	16-QAM	12	0	9.58	0-2	0
	1712.5	19975	5	16-QAM	12	6	9.53	0-2	0
	1712.5	19975	5	16-QAM	12	13	9.51	0-2	0
	1712.5	19975	5	16-QAM	25	0	9.50	0-2	0
Mid	1732.5	20175	5	QPSK	1	0	9.93	0	0
	1732.5	20175	5	QPSK	1	12	9.86	0	0
	1732.5	20175	5	QPSK	1	24	9.85	0	0
	1732.5	20175	5	QPSK	12	0	9.97	0-1	0
	1732.5	20175	5	QPSK	12	6	9.89	0-1	0
	1732.5	20175	5	QPSK	12	13	9.86	0-1	0
	1732.5	20175	5	QPSK	25	0	9.88	0-1	0
	1732.5	20175	5	16-QAM	1	0	10.15	0-1	0
	1732.5	20175	5	16-QAM	1	12	10.06	0-1	0
	1732.5	20175	5	16-QAM	1	24	10.08	0-1	0
	1732.5	20175	5	16-QAM	12	0	9.86	0-2	0
	1732.5	20175	5	16-QAM	12	6	9.87	0-2	0
	1732.5	20175	5	16-QAM	12	13	9.86	0-2	0
	1732.5	20175	5	16-QAM	25	0	9.84	0-2	0
High	1752.5	20375	5	QPSK	1	0	10.11	0	0
	1752.5	20375	5	QPSK	1	12	10.01	0	0
	1752.5	20375	5	QPSK	1	24	9.98	0	0
	1752.5	20375	5	QPSK	12	0	10.08	0-1	0
	1752.5	20375	5	QPSK	12	6	10.02	0-1	0
	1752.5	20375	5	QPSK	12	13	10.05	0-1	0
	1752.5	20375	5	QPSK	25	0	10.10	0-1	0
	1752.5	20375	5	16-QAM	1	0	10.42	0-1	0
	1752.5	20375	5	16-QAM	1	12	10.36	0-1	0
	1752.5	20375	5	16-QAM	1	24	10.30	0-1	0
	1752.5	20375	5	16-QAM	12	0	10.11	0-2	0
	1752.5	20375	5	16-QAM	12	6	10.07	0-2	0
	1752.5	20375	5	16-QAM	12	13	10.03	0-2	0
	1752.5	20375	5	16-QAM	25	0	10.05	0-2	0

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Table 9-27
Maximum LTE Band 4 (AWS) Conducted Powers - 3 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1711.5	19965	3	QPSK	1	0	22.56	0	0
	1711.5	19965	3	QPSK	1	7	22.56	0	0
	1711.5	19965	3	QPSK	1	14	22.55	0	0
	1711.5	19965	3	QPSK	8	0	21.71	0-1	1
	1711.5	19965	3	QPSK	8	4	21.66	0-1	1
	1711.5	19965	3	QPSK	8	7	21.65	0-1	1
	1711.5	19965	3	QPSK	15	0	21.71	0-1	1
	1711.5	19965	3	16-QAM	1	0	21.96	0-1	1
	1711.5	19965	3	16-QAM	1	7	21.93	0-1	1
	1711.5	19965	3	16-QAM	1	14	21.87	0-1	1
	1711.5	19965	3	16-QAM	8	0	20.73	0-2	2
	1711.5	19965	3	16-QAM	8	4	20.65	0-2	2
	1711.5	19965	3	16-QAM	8	7	20.65	0-2	2
Mid	1732.5	20175	3	QPSK	1	0	22.69	0	0
	1732.5	20175	3	QPSK	1	7	22.65	0	0
	1732.5	20175	3	QPSK	1	14	22.63	0	0
	1732.5	20175	3	QPSK	8	0	21.73	0-1	1
	1732.5	20175	3	QPSK	8	4	21.68	0-1	1
	1732.5	20175	3	QPSK	8	7	21.66	0-1	1
	1732.5	20175	3	QPSK	15	0	21.61	0-1	1
	1732.5	20175	3	16-QAM	1	0	21.62	0-1	1
	1732.5	20175	3	16-QAM	1	7	21.55	0-1	1
	1732.5	20175	3	16-QAM	1	14	21.48	0-1	1
	1732.5	20175	3	16-QAM	8	0	20.77	0-2	2
	1732.5	20175	3	16-QAM	8	4	20.80	0-2	2
	1732.5	20175	3	16-QAM	8	7	20.77	0-2	2
High	1753.5	20385	3	QPSK	1	0	22.90	0	0
	1753.5	20385	3	QPSK	1	7	22.83	0	0
	1753.5	20385	3	QPSK	1	14	22.85	0	0
	1753.5	20385	3	QPSK	8	0	21.93	0-1	1
	1753.5	20385	3	QPSK	8	4	21.90	0-1	1
	1753.5	20385	3	QPSK	8	7	21.91	0-1	1
	1753.5	20385	3	QPSK	15	0	21.94	0-1	1
	1753.5	20385	3	16-QAM	1	0	21.93	0-1	1
	1753.5	20385	3	16-QAM	1	7	21.83	0-1	1
	1753.5	20385	3	16-QAM	1	14	21.81	0-1	1
	1753.5	20385	3	16-QAM	8	0	20.90	0-2	2
	1753.5	20385	3	16-QAM	8	4	20.83	0-2	2
	1753.5	20385	3	16-QAM	8	7	20.86	0-2	2
	1753.5	20385	3	16-QAM	15	0	20.80	0-2	2

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Table 9-28
Reduced LTE Band 4 (AWS) Conducted Powers - 3 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1711.5	19965	3	QPSK	1	0	9.53	0	0
	1711.5	19965	3	QPSK	1	7	9.51	0	0
	1711.5	19965	3	QPSK	1	14	9.50	0	0
	1711.5	19965	3	QPSK	8	0	9.58	0-1	0
	1711.5	19965	3	QPSK	8	4	9.58	0-1	0
	1711.5	19965	3	QPSK	8	7	9.54	0-1	0
	1711.5	19965	3	QPSK	15	0	9.61	0-1	0
	1711.5	19965	3	16-QAM	1	0	9.71	0-1	0
	1711.5	19965	3	16-QAM	1	7	9.68	0-1	0
	1711.5	19965	3	16-QAM	1	14	9.69	0-1	0
	1711.5	19965	3	16-QAM	8	0	9.55	0-2	0
	1711.5	19965	3	16-QAM	8	4	9.50	0-2	0
	1711.5	19965	3	16-QAM	8	7	9.51	0-2	0
	1711.5	19965	3	16-QAM	15	0	9.56	0-2	0
Mid	1732.5	20175	3	QPSK	1	0	9.88	0	0
	1732.5	20175	3	QPSK	1	7	9.78	0	0
	1732.5	20175	3	QPSK	1	14	9.75	0	0
	1732.5	20175	3	QPSK	8	0	9.84	0-1	0
	1732.5	20175	3	QPSK	8	4	9.81	0-1	0
	1732.5	20175	3	QPSK	8	7	9.82	0-1	0
	1732.5	20175	3	QPSK	15	0	9.83	0-1	0
	1732.5	20175	3	16-QAM	1	0	10.00	0-1	0
	1732.5	20175	3	16-QAM	1	7	9.99	0-1	0
	1732.5	20175	3	16-QAM	1	14	9.96	0-1	0
	1732.5	20175	3	16-QAM	8	0	9.83	0-2	0
	1732.5	20175	3	16-QAM	8	4	9.80	0-2	0
	1732.5	20175	3	16-QAM	8	7	9.80	0-2	0
	1732.5	20175	3	16-QAM	15	0	9.76	0-2	0
High	1753.5	20385	3	QPSK	1	0	9.98	0	0
	1753.5	20385	3	QPSK	1	7	9.95	0	0
	1753.5	20385	3	QPSK	1	14	9.95	0	0
	1753.5	20385	3	QPSK	8	0	10.05	0-1	0
	1753.5	20385	3	QPSK	8	4	9.99	0-1	0
	1753.5	20385	3	QPSK	8	7	10.00	0-1	0
	1753.5	20385	3	QPSK	15	0	10.03	0-1	0
	1753.5	20385	3	16-QAM	1	0	10.17	0-1	0
	1753.5	20385	3	16-QAM	1	7	10.19	0-1	0
	1753.5	20385	3	16-QAM	1	14	10.14	0-1	0
	1753.5	20385	3	16-QAM	8	0	10.01	0-2	0
	1753.5	20385	3	16-QAM	8	4	9.97	0-2	0
	1753.5	20385	3	16-QAM	8	7	9.96	0-2	0
	1753.5	20385	3	16-QAM	15	0	9.93	0-2	0

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Table 9-29
Maximum LTE Band 4 (AWS) Conducted Powers -1.4 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1710.7	19957	1.4	QPSK	1	0	22.62	0	0
	1710.7	19957	1.4	QPSK	1	2	22.63	0	0
	1710.7	19957	1.4	QPSK	1	5	22.65	0	0
	1710.7	19957	1.4	QPSK	3	0	22.75	0	0
	1710.7	19957	1.4	QPSK	3	2	22.74	0	0
	1710.7	19957	1.4	QPSK	3	3	22.78	0	0
	1710.7	19957	1.4	QPSK	6	0	21.79	0-1	1
	1710.7	19957	1.4	16-QAM	1	0	22.00	0-1	1
	1710.7	19957	1.4	16-QAM	1	2	21.96	0-1	1
	1710.7	19957	1.4	16-QAM	1	5	21.94	0-1	1
	1710.7	19957	1.4	16-QAM	3	0	21.96	0-1	1
	1710.7	19957	1.4	16-QAM	3	2	21.93	0-1	1
	1710.7	19957	1.4	16-QAM	3	3	21.96	0-1	1
Mid	1710.7	19957	1.4	16-QAM	6	0	20.58	0-2	2
	1732.5	20175	1.4	QPSK	1	0	22.91	0	0
	1732.5	20175	1.4	QPSK	1	2	22.86	0	0
	1732.5	20175	1.4	QPSK	1	5	22.89	0	0
	1732.5	20175	1.4	QPSK	3	0	22.82	0	0
	1732.5	20175	1.4	QPSK	3	2	22.82	0	0
	1732.5	20175	1.4	QPSK	3	3	22.80	0	0
	1732.5	20175	1.4	QPSK	6	0	21.69	0-1	1
	1732.5	20175	1.4	16-QAM	1	0	21.75	0-1	1
	1732.5	20175	1.4	16-QAM	1	2	21.75	0-1	1
	1732.5	20175	1.4	16-QAM	1	5	21.76	0-1	1
	1732.5	20175	1.4	16-QAM	3	0	21.77	0-1	1
	1732.5	20175	1.4	16-QAM	3	2	21.87	0-1	1
	1732.5	20175	1.4	16-QAM	3	3	21.80	0-1	1
High	1732.5	20175	1.4	16-QAM	6	0	20.82	0-2	2
	1754.3	20393	1.4	QPSK	1	0	22.98	0	0
	1754.3	20393	1.4	QPSK	1	2	22.95	0	0
	1754.3	20393	1.4	QPSK	1	5	22.97	0	0
	1754.3	20393	1.4	QPSK	3	0	23.00	0	0
	1754.3	20393	1.4	QPSK	3	2	22.93	0	0
	1754.3	20393	1.4	QPSK	3	3	22.93	0	0
	1754.3	20393	1.4	QPSK	6	0	21.97	0-1	1
	1754.3	20393	1.4	16-QAM	1	0	21.99	0-1	1
	1754.3	20393	1.4	16-QAM	1	2	21.94	0-1	1
	1754.3	20393	1.4	16-QAM	1	5	21.97	0-1	1
	1754.3	20393	1.4	16-QAM	3	0	22.00	0-1	1
	1754.3	20393	1.4	16-QAM	3	2	22.00	0-1	1
	1754.3	20393	1.4	16-QAM	3	3	21.99	0-1	1
	1754.3	20393	1.4	16-QAM	6	0	20.93	0-2	2

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Table 9-30
Reduced LTE Band 4 (AWS) Conducted Powers -1.4 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1710.7	19957	1.4	QPSK	1	0	9.60	0	0
	1710.7	19957	1.4	QPSK	1	2	9.61	0	0
	1710.7	19957	1.4	QPSK	1	5	9.57	0	0
	1710.7	19957	1.4	QPSK	3	0	9.64	0	0
	1710.7	19957	1.4	QPSK	3	2	9.63	0	0
	1710.7	19957	1.4	QPSK	3	3	9.61	0	0
	1710.7	19957	1.4	QPSK	6	0	9.58	0-1	0
	1710.7	19957	1.4	16-QAM	1	0	9.84	0-1	0
	1710.7	19957	1.4	16-QAM	1	2	9.82	0-1	0
	1710.7	19957	1.4	16-QAM	1	5	9.81	0-1	0
	1710.7	19957	1.4	16-QAM	3	0	9.68	0-1	0
	1710.7	19957	1.4	16-QAM	3	2	9.67	0-1	0
Mid	1710.7	19957	1.4	16-QAM	3	3	9.67	0-1	0
	1710.7	19957	1.4	16-QAM	6	0	9.62	0-2	0
	1732.5	20175	1.4	QPSK	1	0	9.88	0	0
	1732.5	20175	1.4	QPSK	1	2	9.90	0	0
	1732.5	20175	1.4	QPSK	1	5	9.86	0	0
	1732.5	20175	1.4	QPSK	3	0	9.90	0	0
	1732.5	20175	1.4	QPSK	3	2	9.89	0	0
	1732.5	20175	1.4	QPSK	3	3	9.90	0	0
	1732.5	20175	1.4	QPSK	6	0	9.87	0-1	0
	1732.5	20175	1.4	16-QAM	1	0	10.10	0-1	0
	1732.5	20175	1.4	16-QAM	1	2	10.12	0-1	0
	1732.5	20175	1.4	16-QAM	1	5	10.10	0-1	0
High	1732.5	20175	1.4	16-QAM	3	0	9.95	0-1	0
	1732.5	20175	1.4	16-QAM	3	2	9.94	0-1	0
	1732.5	20175	1.4	16-QAM	3	3	9.93	0-1	0
	1732.5	20175	1.4	16-QAM	6	0	9.88	0-2	0
	1754.3	20393	1.4	QPSK	1	0	10.04	0	0
	1754.3	20393	1.4	QPSK	1	2	10.06	0	0
	1754.3	20393	1.4	QPSK	1	5	10.03	0	0
	1754.3	20393	1.4	QPSK	3	0	10.10	0	0
	1754.3	20393	1.4	QPSK	3	2	10.09	0	0
	1754.3	20393	1.4	QPSK	3	3	10.08	0	0
	1754.3	20393	1.4	QPSK	6	0	10.09	0-1	0
	1754.3	20393	1.4	16-QAM	1	0	10.31	0-1	0
	1754.3	20393	1.4	16-QAM	1	2	10.32	0-1	0
	1754.3	20393	1.4	16-QAM	1	5	10.34	0-1	0
	1754.3	20393	1.4	16-QAM	3	0	10.14	0-1	0
	1754.3	20393	1.4	16-QAM	3	2	10.14	0-1	0
	1754.3	20393	1.4	16-QAM	3	3	10.11	0-1	0
	1754.3	20393	1.4	16-QAM	6	0	10.07	0-2	0

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9.3.4

LTE Band 2 (PCS)

Table 9-31
Maximum LTE Band 2 (PCS) Conducted Powers - 20 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1860	18700	20	QPSK	1	0	22.75	0	0
	1860	18700	20	QPSK	1	50	22.24	0	0
	1860	18700	20	QPSK	1	99	22.00	0	0
	1860	18700	20	QPSK	50	0	21.67	0-1	1
	1860	18700	20	QPSK	50	25	21.43	0-1	1
	1860	18700	20	QPSK	50	50	21.32	0-1	1
	1860	18700	20	QPSK	100	0	21.57	0-1	1
	1860	18700	20	16QAM	1	0	21.41	0-1	1
	1860	18700	20	16QAM	1	50	21.06	0-1	1
	1860	18700	20	16QAM	1	99	21.07	0-1	1
	1860	18700	20	16QAM	50	0	20.71	0-2	2
	1860	18700	20	16QAM	50	25	20.41	0-2	2
	1860	18700	20	16QAM	50	50	20.32	0-2	2
	1860	18700	20	16QAM	100	0	20.47	0-2	2
Mid	1880.0	18900	20	QPSK	1	0	22.63	0	0
	1880.0	18900	20	QPSK	1	50	22.08	0	0
	1880.0	18900	20	QPSK	1	99	22.00	0	0
	1880.0	18900	20	QPSK	50	0	21.67	0-1	1
	1880.0	18900	20	QPSK	50	25	21.36	0-1	1
	1880.0	18900	20	QPSK	50	50	21.33	0-1	1
	1880.0	18900	20	QPSK	100	0	21.51	0-1	1
	1880.0	18900	20	16QAM	1	0	21.70	0-1	1
	1880.0	18900	20	16QAM	1	50	21.22	0-1	1
	1880.0	18900	20	16QAM	1	99	21.00	0-1	1
	1880.0	18900	20	16QAM	50	0	20.63	0-2	2
	1880.0	18900	20	16QAM	50	25	20.31	0-2	2
	1880.0	18900	20	16QAM	50	50	20.28	0-2	2
	1880.0	18900	20	16QAM	100	0	20.43	0-2	2
High	1900	19100	20	QPSK	1	0	22.77	0	0
	1900	19100	20	QPSK	1	50	22.23	0	0
	1900	19100	20	QPSK	1	99	22.38	0	0
	1900	19100	20	QPSK	50	0	21.68	0-1	1
	1900	19100	20	QPSK	50	25	21.49	0-1	1
	1900	19100	20	QPSK	50	50	21.49	0-1	1
	1900	19100	20	QPSK	100	0	21.62	0-1	1
	1900	19100	20	16QAM	1	0	21.97	0-1	1
	1900	19100	20	16QAM	1	50	21.10	0-1	1
	1900	19100	20	16QAM	1	99	21.49	0-1	1
	1900	19100	20	16QAM	50	0	20.73	0-2	2
	1900	19100	20	16QAM	50	25	20.51	0-2	2
	1900	19100	20	16QAM	50	50	20.60	0-2	2
	1900	19100	20	16QAM	100	0	20.66	0-2	2

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Table 9-32
Reduced LTE Band 2 (PCS) Conducted Powers - 20 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1860	18700	20	QPSK	1	0	10.42	0	0
	1860	18700	20	QPSK	1	50	9.92	0	0
	1860	18700	20	QPSK	1	99	9.56	0	0
	1860	18700	20	QPSK	50	0	10.40	0-1	0
	1860	18700	20	QPSK	50	25	10.07	0-1	0
	1860	18700	20	QPSK	50	50	9.96	0-1	0
	1860	18700	20	QPSK	100	0	10.17	0-1	0
	1860	18700	20	16QAM	1	0	10.44	0-1	0
	1860	18700	20	16QAM	1	50	10.09	0-1	0
	1860	18700	20	16QAM	1	99	9.84	0-1	0
	1860	18700	20	16QAM	50	0	10.32	0-2	0
	1860	18700	20	16QAM	50	25	9.98	0-2	0
	1860	18700	20	16QAM	50	50	9.90	0-2	0
Mid	1880.0	18900	20	QPSK	1	0	10.22	0	0
	1880.0	18900	20	QPSK	1	50	9.73	0	0
	1880.0	18900	20	QPSK	1	99	9.53	0	0
	1880.0	18900	20	QPSK	50	0	10.18	0-1	0
	1880.0	18900	20	QPSK	50	25	9.81	0-1	0
	1880.0	18900	20	QPSK	50	50	9.71	0-1	0
	1880.0	18900	20	QPSK	100	0	10.02	0-1	0
	1880.0	18900	20	16QAM	1	0	10.32	0-1	0
	1880.0	18900	20	16QAM	1	50	9.84	0-1	0
	1880.0	18900	20	16QAM	1	99	9.77	0-1	0
	1880.0	18900	20	16QAM	50	0	10.13	0-2	0
	1880.0	18900	20	16QAM	50	25	9.83	0-2	0
	1880.0	18900	20	16QAM	50	50	9.77	0-2	0
	1880.0	18900	20	16QAM	100	0	9.93	0-2	0
High	1900	19100	20	QPSK	1	0	10.44	0	0
	1900	19100	20	QPSK	1	50	9.92	0	0
	1900	19100	20	QPSK	1	99	9.84	0	0
	1900	19100	20	QPSK	50	0	10.35	0-1	0
	1900	19100	20	QPSK	50	25	10.10	0-1	0
	1900	19100	20	QPSK	50	50	10.15	0-1	0
	1900	19100	20	QPSK	100	0	10.24	0-1	0
	1900	19100	20	16QAM	1	0	10.43	0-1	0
	1900	19100	20	16QAM	1	50	10.14	0-1	0
	1900	19100	20	16QAM	1	99	9.93	0-1	0
	1900	19100	20	16QAM	50	0	10.18	0-2	0
	1900	19100	20	16QAM	50	25	9.92	0-2	0
	1900	19100	20	16QAM	50	50	9.95	0-2	0
	1900	19100	20	16QAM	100	0	10.07	0-2	0

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Table 9-33
Maximum LTE Band 2 (PCS) Conducted Powers - 15 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1857.5	18675	15	QPSK	1	0	22.82	0	0
	1857.5	18675	15	QPSK	1	36	22.40	0	0
	1857.5	18675	15	QPSK	1	74	22.37	0	0
	1857.5	18675	15	QPSK	36	0	21.77	0-1	1
	1857.5	18675	15	QPSK	36	18	21.56	0-1	1
	1857.5	18675	15	QPSK	36	37	21.57	0-1	1
	1857.5	18675	15	QPSK	75	0	21.68	0-1	1
	1857.5	18675	15	16QAM	1	0	22.00	0-1	1
	1857.5	18675	15	16QAM	1	36	21.53	0-1	1
	1857.5	18675	15	16QAM	1	74	21.49	0-1	1
	1857.5	18675	15	16QAM	36	0	20.82	0-2	2
	1857.5	18675	15	16QAM	36	18	20.56	0-2	2
Mid	1857.5	18675	15	16QAM	36	37	20.58	0-2	2
	1857.5	18675	15	16QAM	75	0	20.69	0-2	2
	1880.0	18900	15	QPSK	1	0	22.56	0	0
	1880.0	18900	15	QPSK	1	36	22.30	0	0
	1880.0	18900	15	QPSK	1	74	22.16	0	0
	1880.0	18900	15	QPSK	36	0	21.71	0-1	1
	1880.0	18900	15	QPSK	36	18	21.52	0-1	1
	1880.0	18900	15	QPSK	36	37	21.44	0-1	1
	1880.0	18900	15	QPSK	75	0	21.49	0-1	1
	1880.0	18900	15	16QAM	1	0	21.73	0-1	1
	1880.0	18900	15	16QAM	1	36	21.41	0-1	1
	1880.0	18900	15	16QAM	1	74	21.16	0-1	1
High	1880.0	18900	15	16QAM	36	0	20.73	0-2	2
	1880.0	18900	15	16QAM	36	18	20.49	0-2	2
	1880.0	18900	15	16QAM	36	37	20.45	0-2	2
	1880.0	18900	15	16QAM	75	0	20.55	0-2	2
	1902.5	19125	15	QPSK	1	0	22.72	0	0
	1902.5	19125	15	QPSK	1	36	22.50	0	0
	1902.5	19125	15	QPSK	1	74	22.38	0	0
	1902.5	19125	15	QPSK	36	0	21.77	0-1	1
	1902.5	19125	15	QPSK	36	18	21.56	0-1	1
	1902.5	19125	15	QPSK	36	37	21.54	0-1	1
	1902.5	19125	15	QPSK	75	0	21.63	0-1	1
	1902.5	19125	15	16QAM	1	0	21.99	0-1	1
	1902.5	19125	15	16QAM	1	36	21.93	0-1	1
	1902.5	19125	15	16QAM	1	74	21.73	0-1	1
	1902.5	19125	15	16QAM	36	0	20.75	0-2	2
	1902.5	19125	15	16QAM	36	18	20.61	0-2	2
	1902.5	19125	15	16QAM	36	37	20.57	0-2	2
	1902.5	19125	15	16QAM	75	0	20.66	0-2	2

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Table 9-34
Reduced LTE Band 2 (PCS) Conducted Powers - 15 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1852.5	18625	5	QPSK	1	0	9.82	0	0
	1852.5	18625	5	QPSK	1	12	9.77	0	0
	1852.5	18625	5	QPSK	1	24	9.71	0	0
	1852.5	18625	5	QPSK	12	0	9.77	0-1	0
	1852.5	18625	5	QPSK	12	6	9.78	0-1	0
	1852.5	18625	5	QPSK	12	13	9.74	0-1	0
	1852.5	18625	5	QPSK	25	0	9.77	0-1	0
	1852.5	18625	5	16-QAM	1	0	10.02	0-1	0
	1852.5	18625	5	16-QAM	1	12	10.03	0-1	0
	1852.5	18625	5	16-QAM	1	24	9.95	0-1	0
	1852.5	18625	5	16-QAM	12	0	9.72	0-2	0
	1852.5	18625	5	16-QAM	12	6	9.77	0-2	0
	1852.5	18625	5	16-QAM	12	13	9.71	0-2	0
Mid	1852.5	18625	5	16-QAM	25	0	9.75	0-2	0
	1880.0	18900	5	QPSK	1	0	9.65	0	0
	1880.0	18900	5	QPSK	1	12	9.54	0	0
	1880.0	18900	5	QPSK	1	24	9.51	0	0
	1880.0	18900	5	QPSK	12	0	9.58	0-1	0
	1880.0	18900	5	QPSK	12	6	9.53	0-1	0
	1880.0	18900	5	QPSK	12	13	9.50	0-1	0
	1880.0	18900	5	QPSK	25	0	9.55	0-1	0
	1880.0	18900	5	16-QAM	1	0	9.92	0-1	0
	1880.0	18900	5	16-QAM	1	12	9.79	0-1	0
	1880.0	18900	5	16-QAM	1	24	9.73	0-1	0
	1880.0	18900	5	16-QAM	12	0	9.55	0-2	0
	1880.0	18900	5	16-QAM	12	6	9.50	0-2	0
High	1880.0	18900	5	16-QAM	12	13	9.53	0-2	0
	1880.0	18900	5	16-QAM	25	0	9.56	0-2	0
	1907.5	19175	5	QPSK	1	0	9.89	0	0
	1907.5	19175	5	QPSK	1	12	9.73	0	0
	1907.5	19175	5	QPSK	1	24	9.61	0	0
	1907.5	19175	5	QPSK	12	0	9.76	0-1	0
	1907.5	19175	5	QPSK	12	6	9.60	0-1	0
	1907.5	19175	5	QPSK	12	13	9.64	0-1	0
	1907.5	19175	5	QPSK	25	0	9.71	0-1	0
	1907.5	19175	5	16-QAM	1	0	10.08	0-1	0
	1907.5	19175	5	16-QAM	1	12	9.93	0-1	0
	1907.5	19175	5	16-QAM	1	24	9.89	0-1	0
	1907.5	19175	5	16-QAM	12	0	9.83	0-2	0
	1907.5	19175	5	16-QAM	12	6	9.66	0-2	0
	1907.5	19175	5	16-QAM	12	13	9.64	0-2	0
	1907.5	19175	5	16-QAM	25	0	9.64	0-2	0

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Table 9-35
Maximum LTE Band 2 (PCS) Conducted Powers - 10 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1855	18650	10	QPSK	1	0	22.67	0	0
	1855	18650	10	QPSK	1	25	22.40	0	0
	1855	18650	10	QPSK	1	49	22.41	0	0
	1855	18650	10	QPSK	25	0	21.67	0-1	1
	1855	18650	10	QPSK	25	12	21.54	0-1	1
	1855	18650	10	QPSK	25	25	21.51	0-1	1
	1855	18650	10	QPSK	50	0	21.60	0-1	1
	1855	18650	10	16QAM	1	0	21.70	0-1	1
	1855	18650	10	16QAM	1	25	21.33	0-1	1
	1855	18650	10	16QAM	1	49	21.28	0-1	1
	1855	18650	10	16QAM	25	0	20.69	0-2	2
	1855	18650	10	16QAM	25	12	20.56	0-2	2
	1855	18650	10	16QAM	25	25	20.58	0-2	2
	1855	18650	10	16QAM	50	0	20.61	0-2	2
Mid	1880.0	18900	10	QPSK	1	0	22.67	0	0
	1880.0	18900	10	QPSK	1	25	22.35	0	0
	1880.0	18900	10	QPSK	1	49	22.36	0	0
	1880.0	18900	10	QPSK	25	0	21.65	0-1	1
	1880.0	18900	10	QPSK	25	12	21.51	0-1	1
	1880.0	18900	10	QPSK	25	25	21.45	0-1	1
	1880.0	18900	10	QPSK	50	0	21.55	0-1	1
	1880.0	18900	10	16QAM	1	0	21.72	0-1	1
	1880.0	18900	10	16QAM	1	25	21.29	0-1	1
	1880.0	18900	10	16QAM	1	49	21.52	0-1	1
	1880.0	18900	10	16QAM	25	0	20.67	0-2	2
	1880.0	18900	10	16QAM	25	12	20.45	0-2	2
	1880.0	18900	10	16QAM	25	25	20.46	0-2	2
	1880.0	18900	10	16QAM	50	0	20.55	0-2	2
High	1905	19150	10	QPSK	1	0	22.73	0	0
	1905	19150	10	QPSK	1	25	22.48	0	0
	1905	19150	10	QPSK	1	49	22.47	0	0
	1905	19150	10	QPSK	25	0	21.78	0-1	1
	1905	19150	10	QPSK	25	12	21.67	0-1	1
	1905	19150	10	QPSK	25	25	21.62	0-1	1
	1905	19150	10	QPSK	50	0	21.65	0-1	1
	1905	19150	10	16QAM	1	0	21.93	0-1	1
	1905	19150	10	16QAM	1	25	21.63	0-1	1
	1905	19150	10	16QAM	1	49	21.59	0-1	1
	1905	19150	10	16QAM	25	0	20.77	0-2	2
	1905	19150	10	16QAM	25	12	20.67	0-2	2
	1905	19150	10	16QAM	25	25	20.59	0-2	2
	1905	19150	10	16QAM	50	0	20.67	0-2	2

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Table 9-36
Reduced LTE Band 2 (PCS) Conducted Powers - 10 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1851.5	18615	3	QPSK	1	0	9.69	0	0
	1851.5	18615	3	QPSK	1	7	9.65	0	0
	1851.5	18615	3	QPSK	1	14	9.65	0	0
	1851.5	18615	3	QPSK	8	0	9.70	0-1	0
	1851.5	18615	3	QPSK	8	4	9.67	0-1	0
	1851.5	18615	3	QPSK	8	7	9.75	0-1	0
	1851.5	18615	3	QPSK	15	0	9.69	0-1	0
	1851.5	18615	3	16-QAM	1	0	9.86	0-1	0
	1851.5	18615	3	16-QAM	1	7	9.85	0-1	0
	1851.5	18615	3	16-QAM	1	14	9.88	0-1	0
	1851.5	18615	3	16-QAM	8	0	9.68	0-2	0
	1851.5	18615	3	16-QAM	8	4	9.64	0-2	0
	1851.5	18615	3	16-QAM	8	7	9.73	0-2	0
Mid	1880.0	18900	3	QPSK	1	0	9.62	0	0
	1880.0	18900	3	QPSK	1	7	9.58	0	0
	1880.0	18900	3	QPSK	1	14	9.50	0	0
	1880.0	18900	3	QPSK	8	0	9.53	0-1	0
	1880.0	18900	3	QPSK	8	4	9.50	0-1	0
	1880.0	18900	3	QPSK	8	7	9.51	0-1	0
	1880.0	18900	3	QPSK	15	0	9.53	0-1	0
	1880.0	18900	3	16-QAM	1	0	9.70	0-1	0
	1880.0	18900	3	16-QAM	1	7	9.72	0-1	0
	1880.0	18900	3	16-QAM	1	14	9.67	0-1	0
	1880.0	18900	3	16-QAM	8	0	9.52	0-2	0
	1880.0	18900	3	16-QAM	8	4	9.50	0-2	0
	1880.0	18900	3	16-QAM	8	7	9.50	0-2	0
	1880.0	18900	3	16-QAM	15	0	9.57	0-2	0
High	1908.5	19185	3	QPSK	1	0	9.71	0	0
	1908.5	19185	3	QPSK	1	7	9.68	0	0
	1908.5	19185	3	QPSK	1	14	9.63	0	0
	1908.5	19185	3	QPSK	8	0	9.74	0-1	0
	1908.5	19185	3	QPSK	8	4	9.70	0-1	0
	1908.5	19185	3	QPSK	8	7	9.72	0-1	0
	1908.5	19185	3	QPSK	15	0	9.73	0-1	0
	1908.5	19185	3	16-QAM	1	0	9.89	0-1	0
	1908.5	19185	3	16-QAM	1	7	9.91	0-1	0
	1908.5	19185	3	16-QAM	1	14	9.87	0-1	0
	1908.5	19185	3	16-QAM	8	0	9.72	0-2	0
	1908.5	19185	3	16-QAM	8	4	9.69	0-2	0
	1908.5	19185	3	16-QAM	8	7	9.68	0-2	0
	1908.5	19185	3	16-QAM	15	0	9.63	0-2	0

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Table 9-37
Maximum LTE Band 2 (PCS) Conducted Powers - 5 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1852.5	18625	5	QPSK	1	0	22.54	0	0
	1852.5	18625	5	QPSK	1	12	22.30	0	0
	1852.5	18625	5	QPSK	1	24	22.32	0	0
	1852.5	18625	5	QPSK	12	0	21.58	0-1	1
	1852.5	18625	5	QPSK	12	6	21.42	0-1	1
	1852.5	18625	5	QPSK	12	13	21.42	0-1	1
	1852.5	18625	5	QPSK	25	0	21.45	0-1	1
	1852.5	18625	5	16-QAM	1	0	21.75	0-1	1
	1852.5	18625	5	16-QAM	1	12	21.45	0-1	1
	1852.5	18625	5	16-QAM	1	24	21.52	0-1	1
	1852.5	18625	5	16-QAM	12	0	20.60	0-2	2
	1852.5	18625	5	16-QAM	12	6	20.52	0-2	2
	1852.5	18625	5	16-QAM	12	13	20.47	0-2	2
	1852.5	18625	5	16-QAM	25	0	20.55	0-2	2
Mid	1880.0	18900	5	QPSK	1	0	22.41	0	0
	1880.0	18900	5	QPSK	1	12	22.31	0	0
	1880.0	18900	5	QPSK	1	24	22.20	0	0
	1880.0	18900	5	QPSK	12	0	21.55	0-1	1
	1880.0	18900	5	QPSK	12	6	21.36	0-1	1
	1880.0	18900	5	QPSK	12	13	21.36	0-1	1
	1880.0	18900	5	QPSK	25	0	21.44	0-1	1
	1880.0	18900	5	16-QAM	1	0	21.45	0-1	1
	1880.0	18900	5	16-QAM	1	12	21.27	0-1	1
	1880.0	18900	5	16-QAM	1	24	21.22	0-1	1
	1880.0	18900	5	16-QAM	12	0	20.58	0-2	2
	1880.0	18900	5	16-QAM	12	6	20.42	0-2	2
	1880.0	18900	5	16-QAM	12	13	20.35	0-2	2
	1880.0	18900	5	16-QAM	25	0	20.41	0-2	2
High	1907.5	19175	5	QPSK	1	0	22.54	0	0
	1907.5	19175	5	QPSK	1	12	22.36	0	0
	1907.5	19175	5	QPSK	1	24	22.28	0	0
	1907.5	19175	5	QPSK	12	0	21.73	0-1	1
	1907.5	19175	5	QPSK	12	6	21.54	0-1	1
	1907.5	19175	5	QPSK	12	13	21.55	0-1	1
	1907.5	19175	5	QPSK	25	0	21.61	0-1	1
	1907.5	19175	5	16-QAM	1	0	21.89	0-1	1
	1907.5	19175	5	16-QAM	1	12	21.69	0-1	1
	1907.5	19175	5	16-QAM	1	24	21.55	0-1	1
	1907.5	19175	5	16-QAM	12	0	20.75	0-2	2
	1907.5	19175	5	16-QAM	12	6	20.57	0-2	2
	1907.5	19175	5	16-QAM	12	13	20.48	0-2	2
	1907.5	19175	5	16-QAM	25	0	20.61	0-2	2

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Table 9-38
Reduced LTE Band 2 (PCS) Conducted Powers - 5 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1850.7	18607	1.4	QPSK	1	0	9.69	0	0
	1850.7	18607	1.4	QPSK	1	2	9.71	0	0
	1850.7	18607	1.4	QPSK	1	5	9.68	0	0
	1850.7	18607	1.4	QPSK	3	0	9.75	0	0
	1850.7	18607	1.4	QPSK	3	2	9.72	0	0
	1850.7	18607	1.4	QPSK	3	3	9.72	0	0
	1850.7	18607	1.4	QPSK	6	0	9.71	0-1	0
	1850.7	18607	1.4	16-QAM	1	0	9.93	0-1	0
	1850.7	18607	1.4	16-QAM	1	2	9.92	0-1	0
	1850.7	18607	1.4	16-QAM	1	5	9.90	0-1	0
	1850.7	18607	1.4	16-QAM	3	0	9.80	0-1	0
	1850.7	18607	1.4	16-QAM	3	2	9.77	0-1	0
	1850.7	18607	1.4	16-QAM	3	3	9.76	0-1	0
	1850.7	18607	1.4	16-QAM	6	0	9.74	0-2	0
Mid	1880.0	18900	1.4	QPSK	1	0	9.54	0	0
	1880.0	18900	1.4	QPSK	1	2	9.56	0	0
	1880.0	18900	1.4	QPSK	1	5	9.53	0	0
	1880.0	18900	1.4	QPSK	3	0	9.57	0	0
	1880.0	18900	1.4	QPSK	3	2	9.57	0	0
	1880.0	18900	1.4	QPSK	3	3	9.55	0	0
	1880.0	18900	1.4	QPSK	6	0	9.54	0-1	0
	1880.0	18900	1.4	16-QAM	1	0	9.83	0-1	0
	1880.0	18900	1.4	16-QAM	1	2	9.78	0-1	0
	1880.0	18900	1.4	16-QAM	1	5	9.80	0-1	0
	1880.0	18900	1.4	16-QAM	3	0	9.63	0-1	0
	1880.0	18900	1.4	16-QAM	3	2	9.62	0-1	0
	1880.0	18900	1.4	16-QAM	3	3	9.64	0-1	0
	1880.0	18900	1.4	16-QAM	6	0	9.59	0-2	0
High	1909.3	19193	1.4	QPSK	1	0	9.75	0	0
	1909.3	19193	1.4	QPSK	1	2	9.74	0	0
	1909.3	19193	1.4	QPSK	1	5	9.72	0	0
	1909.3	19193	1.4	QPSK	3	0	9.78	0	0
	1909.3	19193	1.4	QPSK	3	2	9.77	0	0
	1909.3	19193	1.4	QPSK	3	3	9.76	0	0
	1909.3	19193	1.4	QPSK	6	0	9.77	0-1	0
	1909.3	19193	1.4	16-QAM	1	0	9.97	0-1	0
	1909.3	19193	1.4	16-QAM	1	2	9.95	0-1	0
	1909.3	19193	1.4	16-QAM	1	5	9.98	0-1	0
	1909.3	19193	1.4	16-QAM	3	0	9.84	0-1	0
	1909.3	19193	1.4	16-QAM	3	2	9.81	0-1	0
	1909.3	19193	1.4	16-QAM	3	3	9.85	0-1	0
	1909.3	19193	1.4	16-QAM	6	0	9.76	0-2	0

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Table 9-39
Maximum LTE Band 2 (PCS) Conducted Powers - 3 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1851.5	18615	3	QPSK	1	0	22.27	0	0
	1851.5	18615	3	QPSK	1	7	22.30	0	0
	1851.5	18615	3	QPSK	1	14	22.23	0	0
	1851.5	18615	3	QPSK	8	0	21.42	0-1	1
	1851.5	18615	3	QPSK	8	4	21.41	0-1	1
	1851.5	18615	3	QPSK	8	7	21.44	0-1	1
	1851.5	18615	3	QPSK	15	0	21.45	0-1	1
	1851.5	18615	3	16-QAM	1	0	21.45	0-1	1
	1851.5	18615	3	16-QAM	1	7	21.43	0-1	1
	1851.5	18615	3	16-QAM	1	14	21.38	0-1	1
	1851.5	18615	3	16-QAM	8	0	20.41	0-2	2
	1851.5	18615	3	16-QAM	8	4	20.35	0-2	2
Mid	1851.5	18615	3	16-QAM	8	7	20.38	0-2	2
	1851.5	18615	3	16-QAM	15	0	20.45	0-2	2
	1880.0	18900	3	QPSK	1	0	22.26	0	0
	1880.0	18900	3	QPSK	1	7	22.23	0	0
	1880.0	18900	3	QPSK	1	14	22.22	0	0
	1880.0	18900	3	QPSK	8	0	21.42	0-1	1
	1880.0	18900	3	QPSK	8	4	21.31	0-1	1
	1880.0	18900	3	QPSK	8	7	21.35	0-1	1
	1880.0	18900	3	QPSK	15	0	21.35	0-1	1
	1880.0	18900	3	16-QAM	1	0	21.86	0-1	1
	1880.0	18900	3	16-QAM	1	7	21.82	0-1	1
	1880.0	18900	3	16-QAM	1	14	21.79	0-1	1
High	1880.0	18900	3	16-QAM	8	0	20.51	0-2	2
	1880.0	18900	3	16-QAM	8	4	20.44	0-2	2
	1880.0	18900	3	16-QAM	8	7	20.48	0-2	2
	1880.0	18900	3	16-QAM	15	0	20.41	0-2	2
	1908.5	19185	3	QPSK	1	0	22.44	0	0
	1908.5	19185	3	QPSK	1	7	22.40	0	0
	1908.5	19185	3	QPSK	1	14	22.38	0	0
	1908.5	19185	3	QPSK	8	0	21.61	0-1	1
	1908.5	19185	3	QPSK	8	4	21.52	0-1	1
	1908.5	19185	3	QPSK	8	7	21.51	0-1	1
	1908.5	19185	3	QPSK	15	0	21.58	0-1	1
	1908.5	19185	3	16-QAM	1	0	21.45	0-1	1
	1908.5	19185	3	16-QAM	1	7	21.52	0-1	1
	1908.5	19185	3	16-QAM	1	14	21.39	0-1	1
	1908.5	19185	3	16-QAM	8	0	20.67	0-2	2
	1908.5	19185	3	16-QAM	8	4	20.59	0-2	2
	1908.5	19185	3	16-QAM	8	7	20.58	0-2	2
	1908.5	19185	3	16-QAM	15	0	20.55	0-2	2

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Table 9-40
Reduced LTE Band 2 (PCS) Conducted Powers - 3 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1851.5	18615	3	QPSK	1	0	9.69	0	0
	1851.5	18615	3	QPSK	1	7	9.65	0	0
	1851.5	18615	3	QPSK	1	14	9.65	0	0
	1851.5	18615	3	QPSK	8	0	9.70	0-1	0
	1851.5	18615	3	QPSK	8	4	9.67	0-1	0
	1851.5	18615	3	QPSK	8	7	9.75	0-1	0
	1851.5	18615	3	QPSK	15	0	9.69	0-1	0
	1851.5	18615	3	16-QAM	1	0	9.86	0-1	0
	1851.5	18615	3	16-QAM	1	7	9.85	0-1	0
	1851.5	18615	3	16-QAM	1	14	9.88	0-1	0
	1851.5	18615	3	16-QAM	8	0	9.68	0-2	0
	1851.5	18615	3	16-QAM	8	4	9.64	0-2	0
Mid	1851.5	18615	3	16-QAM	8	7	9.73	0-2	0
	1851.5	18615	3	16-QAM	15	0	9.58	0-2	0
	1880.0	18900	3	QPSK	1	0	9.62	0	0
	1880.0	18900	3	QPSK	1	7	9.58	0	0
	1880.0	18900	3	QPSK	1	14	9.50	0	0
	1880.0	18900	3	QPSK	8	0	9.53	0-1	0
	1880.0	18900	3	QPSK	8	4	9.50	0-1	0
	1880.0	18900	3	QPSK	8	7	9.51	0-1	0
	1880.0	18900	3	QPSK	15	0	9.53	0-1	0
	1880.0	18900	3	16-QAM	1	0	9.70	0-1	0
	1880.0	18900	3	16-QAM	1	7	9.72	0-1	0
	1880.0	18900	3	16-QAM	1	14	9.67	0-1	0
High	1880.0	18900	3	16-QAM	8	0	9.52	0-2	0
	1880.0	18900	3	16-QAM	8	4	9.50	0-2	0
	1880.0	18900	3	16-QAM	8	7	9.50	0-2	0
	1880.0	18900	3	16-QAM	15	0	9.57	0-2	0
	1908.5	19185	3	QPSK	1	0	9.71	0	0
	1908.5	19185	3	QPSK	1	7	9.68	0	0
	1908.5	19185	3	QPSK	1	14	9.63	0	0
	1908.5	19185	3	QPSK	8	0	9.74	0-1	0
	1908.5	19185	3	QPSK	8	4	9.70	0-1	0
	1908.5	19185	3	QPSK	8	7	9.72	0-1	0
	1908.5	19185	3	QPSK	15	0	9.73	0-1	0
	1908.5	19185	3	16-QAM	1	0	9.89	0-1	0
	1908.5	19185	3	16-QAM	1	7	9.91	0-1	0
	1908.5	19185	3	16-QAM	1	14	9.87	0-1	0
	1908.5	19185	3	16-QAM	8	0	9.72	0-2	0
	1908.5	19185	3	16-QAM	8	4	9.69	0-2	0
	1908.5	19185	3	16-QAM	8	7	9.68	0-2	0
	1908.5	19185	3	16-QAM	15	0	9.63	0-2	0

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Table 9-41
Maximum LTE Band 2 (PCS) Conducted Powers -1.4 MHz Bandwidth

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1850.7	18607	1.4	QPSK	1	0	22.37	0	0
	1850.7	18607	1.4	QPSK	1	2	22.31	0	0
	1850.7	18607	1.4	QPSK	1	5	22.37	0	0
	1850.7	18607	1.4	QPSK	3	0	22.40	0	0
	1850.7	18607	1.4	QPSK	3	2	22.39	0	0
	1850.7	18607	1.4	QPSK	3	3	22.39	0	0
	1850.7	18607	1.4	QPSK	6	0	21.46	0-1	1
	1850.7	18607	1.4	16-QAM	1	0	21.81	0-1	1
	1850.7	18607	1.4	16-QAM	1	2	21.79	0-1	1
	1850.7	18607	1.4	16-QAM	1	5	21.82	0-1	1
	1850.7	18607	1.4	16-QAM	3	0	21.66	0-1	1
	1850.7	18607	1.4	16-QAM	3	2	21.64	0-1	1
	1850.7	18607	1.4	16-QAM	3	3	21.58	0-1	1
Mid	1850.7	18607	1.4	16-QAM	6	0	20.42	0-2	2
	1880.0	18900	1.4	QPSK	1	0	22.38	0	0
	1880.0	18900	1.4	QPSK	1	2	22.40	0	0
	1880.0	18900	1.4	QPSK	1	5	22.42	0	0
	1880.0	18900	1.4	QPSK	3	0	22.41	0	0
	1880.0	18900	1.4	QPSK	3	2	22.42	0	0
	1880.0	18900	1.4	QPSK	3	3	22.37	0	0
	1880.0	18900	1.4	QPSK	6	0	21.43	0-1	1
	1880.0	18900	1.4	16-QAM	1	0	21.53	0-1	1
	1880.0	18900	1.4	16-QAM	1	2	21.38	0-1	1
	1880.0	18900	1.4	16-QAM	1	5	21.38	0-1	1
	1880.0	18900	1.4	16-QAM	3	0	21.32	0-1	1
	1880.0	18900	1.4	16-QAM	3	2	21.33	0-1	1
	1880.0	18900	1.4	16-QAM	3	3	21.31	0-1	1
High	1880.0	18900	1.4	16-QAM	6	0	20.57	0-2	2
	1909.3	19193	1.4	QPSK	1	0	22.44	0	0
	1909.3	19193	1.4	QPSK	1	2	22.47	0	0
	1909.3	19193	1.4	QPSK	1	5	22.48	0	0
	1909.3	19193	1.4	QPSK	3	0	22.56	0	0
	1909.3	19193	1.4	QPSK	3	2	22.53	0	0
	1909.3	19193	1.4	QPSK	3	3	22.52	0	0
	1909.3	19193	1.4	QPSK	6	0	21.65	0-1	1
	1909.3	19193	1.4	16-QAM	1	0	21.63	0-1	1
	1909.3	19193	1.4	16-QAM	1	2	21.56	0-1	1
	1909.3	19193	1.4	16-QAM	1	5	21.61	0-1	1
	1909.3	19193	1.4	16-QAM	3	0	21.82	0-1	1
	1909.3	19193	1.4	16-QAM	3	2	21.76	0-1	1
	1909.3	19193	1.4	16-QAM	3	3	21.82	0-1	1
	1909.3	19193	1.4	16-QAM	6	0	20.87	0-2	2

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Table 9-42
Reduced LTE Band 2 (PCS) Conducted Powers -1.4 MHz Bandwidth
Representing Body at 0 mm

	Frequency [MHz]	Channel	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
Low	1850.7	18607	1.4	QPSK	1	0	9.69	0	0
	1850.7	18607	1.4	QPSK	1	2	9.71	0	0
	1850.7	18607	1.4	QPSK	1	5	9.68	0	0
	1850.7	18607	1.4	QPSK	3	0	9.75	0	0
	1850.7	18607	1.4	QPSK	3	2	9.72	0	0
	1850.7	18607	1.4	QPSK	3	3	9.72	0	0
	1850.7	18607	1.4	QPSK	6	0	9.71	0-1	0
	1850.7	18607	1.4	16-QAM	1	0	9.93	0-1	0
	1850.7	18607	1.4	16-QAM	1	2	9.92	0-1	0
	1850.7	18607	1.4	16-QAM	1	5	9.90	0-1	0
	1850.7	18607	1.4	16-QAM	3	0	9.80	0-1	0
	1850.7	18607	1.4	16-QAM	3	2	9.77	0-1	0
	1850.7	18607	1.4	16-QAM	3	3	9.76	0-1	0
	1850.7	18607	1.4	16-QAM	6	0	9.74	0-2	0
Mid	1880.0	18900	1.4	QPSK	1	0	9.54	0	0
	1880.0	18900	1.4	QPSK	1	2	9.56	0	0
	1880.0	18900	1.4	QPSK	1	5	9.53	0	0
	1880.0	18900	1.4	QPSK	3	0	9.57	0	0
	1880.0	18900	1.4	QPSK	3	2	9.57	0	0
	1880.0	18900	1.4	QPSK	3	3	9.55	0	0
	1880.0	18900	1.4	QPSK	6	0	9.54	0-1	0
	1880.0	18900	1.4	16-QAM	1	0	9.83	0-1	0
	1880.0	18900	1.4	16-QAM	1	2	9.78	0-1	0
	1880.0	18900	1.4	16-QAM	1	5	9.80	0-1	0
	1880.0	18900	1.4	16-QAM	3	0	9.63	0-1	0
	1880.0	18900	1.4	16-QAM	3	2	9.62	0-1	0
	1880.0	18900	1.4	16-QAM	3	3	9.64	0-1	0
	1880.0	18900	1.4	16-QAM	6	0	9.59	0-2	0
High	1909.3	19193	1.4	QPSK	1	0	9.75	0	0
	1909.3	19193	1.4	QPSK	1	2	9.74	0	0
	1909.3	19193	1.4	QPSK	1	5	9.72	0	0
	1909.3	19193	1.4	QPSK	3	0	9.78	0	0
	1909.3	19193	1.4	QPSK	3	2	9.77	0	0
	1909.3	19193	1.4	QPSK	3	3	9.76	0	0
	1909.3	19193	1.4	QPSK	6	0	9.77	0-1	0
	1909.3	19193	1.4	16-QAM	1	0	9.97	0-1	0
	1909.3	19193	1.4	16-QAM	1	2	9.95	0-1	0
	1909.3	19193	1.4	16-QAM	1	5	9.98	0-1	0
	1909.3	19193	1.4	16-QAM	3	0	9.84	0-1	0
	1909.3	19193	1.4	16-QAM	3	2	9.81	0-1	0
	1909.3	19193	1.4	16-QAM	3	3	9.85	0-1	0
	1909.3	19193	1.4	16-QAM	6	0	9.76	0-2	0

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9.4 WLAN Conducted Powers

Table 9-43
IEEE 802.11b Average RF Power

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

Table 9-44
IEEE 802.11g Average RF Power

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

Table 9-45
IEEE 802.11n Average RF Power

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

Table 9-46
MIMO IEEE 802.11n Average RF Power

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

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Table 9-47
IEEE 802.11a Average RF Power

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

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

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

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Table 9-48
IEEE 802.11n Average RF Power – 20 MHz Bandwidth

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

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

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Table 9-49
MIMO IEEE 802.11n Average RF Power – 20 MHz Bandwidth

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

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

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

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Table 9-50
IEEE 802.11n Average RF Power – 40 MHz Bandwidth

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

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

Table 9-51
MIMO IEEE 802.11n Average RF Power – 40 MHz Bandwidth

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

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

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Table 9-52
IEEE 802.11ac Average RF Power – 80 MHz Bandwidth

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

Table 9-53
MIMO IEEE 802.11ac Average RF Power – 80 MHz Bandwidth

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

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

- For SISO 2.4 GHz, highest average RF output power channel for the lowest data rate for IEEE 802.11b were selected for SAR evaluation. Other IEEE 802.11 modes (including 802.11g/n) were not investigated since the average output powers over all channels and data rates were not more than 0.25 dB higher than the tested channel in the lowest data rate of IEEE 802.11b mode.
- For MIMO 2.4 GHz, highest average RF output power channel for the lowest data rate for IEEE 802.11n was selected for SAR evaluation.
- 5 GHz WLAN were excluded per FCC KDB 447498 D01v05.
- When the maximum extrapolated peak SAR of the zoom scan for the maximum output channel is <1.6 W/kg and the reported 1g averaged SAR is <0.8 W/kg, SAR testing on other channels is not required. Otherwise, the other default (or corresponding required) test channels were additionally tested using the lowest data rate.
- The individual spectra for each 2x2 MIMO WIFI Antenna were summed mathematically in linear power units for the MIMO output power measurements.
- The bolded data rate and channel above were tested for SAR.

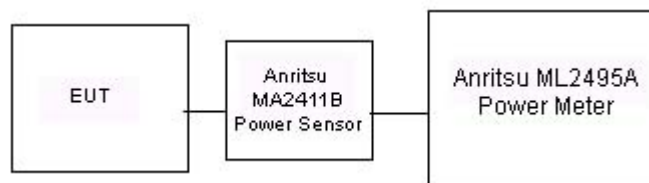


Figure 9-54
Power Measurement Setup for SISO Bandwidths < 50 MHz

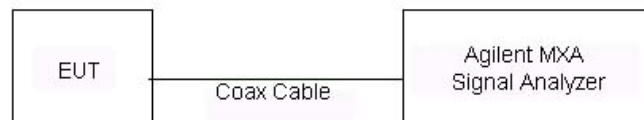


Figure 9-55
Power Measurement Setup for SISO Bandwidths > 50 MHz

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9.5 Bluetooth Conducted Powers

Table 9-56
Bluetooth RF Conducted Powers

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

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

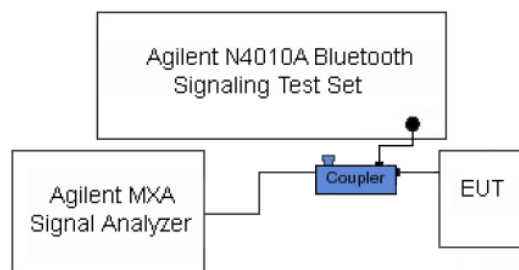


Figure 9-5
Power Measurement Setup

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10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
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
5/5/2014	740H	22.8	710	0.895	43.314	0.890	42.149	0.56%	2.76%
			725	0.908	43.118	0.891	42.071	1.91%	2.49%
			740	0.922	42.915	0.893	41.994	3.25%	2.19%
			755	0.935	42.695	0.894	41.916	4.59%	1.86%
5/14/2014	835H	20.3	820	0.927	43.270	0.899	41.578	3.30%	-1.00%
			835	0.943	43.064	0.900	41.500	4.74%	-1.20%
			850	0.957	42.894	0.916	41.500	4.05%	-1.33%
5/13/2014	1750H	22.2	1710	1.369	40.722	1.348	40.142	2.99%	-2.28%
			1750	1.413	40.514	1.371	40.079	4.33%	-2.52%
			1790	1.456	40.321	1.394	40.016	3.95%	-2.68%
4/30/2014	1900H	23.2	1850	1.383	39.955	1.400	40.000	3.41%	-2.79%
			1880	1.415	39.777	1.400	40.000	4.64%	-3.05%
			1910	1.447	39.690	1.400	40.000	4.05%	-3.21%
5/5/2014	2450H	21.9	2401	1.763	38.663	1.756	39.287	0.40%	-1.59%
			2450	1.818	38.487	1.800	39.200	1.00%	-1.82%
			2499	1.871	38.296	1.853	39.138	0.97%	-2.15%
5/6/2014	740B	22.7	710	0.944	55.251	0.960	55.687	-1.67%	-0.78%
			725	0.960	55.045	0.961	55.629	-0.10%	-1.05%
			740	0.972	54.935	0.963	55.570	0.93%	-1.14%
			755	0.986	54.765	0.964	55.512	2.28%	-1.35%
5/1/2014	835B	24.1	820	1.001	54.704	0.969	55.258	3.30%	-1.00%
			835	1.016	54.540	0.970	55.200	4.74%	-1.20%
			850	1.028	54.421	0.988	55.154	4.05%	-1.33%
5/7/2014	835B	22.7	820	0.998	53.996	0.969	55.258	2.99%	-2.28%
			835	1.012	53.811	0.970	55.200	4.33%	-2.52%
			850	1.027	53.676	0.988	55.154	3.95%	-2.68%
5/14/2014	1750B	23.1	1710	1.430	52.767	1.463	53.537	-2.26%	-1.44%
			1750	1.473	52.582	1.488	53.432	-1.01%	-1.59%
			1790	1.515	52.463	1.514	53.326	0.07%	-1.62%
4/30/2014	1900B	23.4	1850	1.460	53.358	1.520	53.300	-3.95%	0.11%
			1880	1.494	53.279	1.520	53.300	-1.71%	-0.04%
			1910	1.526	53.198	1.520	53.300	0.39%	-0.19%
5/14/2014	1900B	24.5	1850	1.483	52.804	1.520	53.300	-2.43%	-0.93%
			1880	1.517	52.708	1.520	53.300	-0.20%	-1.11%
			1910	1.551	52.643	1.520	53.300	2.04%	-1.23%
5/5/2014	2450B	23.1	2401	1.975	51.293	1.903	52.765	3.78%	-2.79%
			2450	2.045	51.139	1.950	52.700	4.87%	-2.96%
			2499	2.111	50.936	2.019	52.638	4.56%	-3.23%
5/8/2014	2450B	24.3	2401	1.895	51.717	1.903	52.765	-0.42%	-1.99%
			2450	1.960	51.563	1.950	52.700	0.51%	-2.16%
			2499	2.019	51.401	2.019	52.638	0.00%	-2.35%

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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10.2 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 10-2
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} (%)
K	750	HEAD	05/05/2014	24.1	22.8	0.100	1003	3287	0.811	8.370	8.110	-3.11%
I	835	HEAD	05/14/2014	22.0	21.8	0.100	4d119	3209	0.989	9.220	9.890	7.27%
G	1750	HEAD	05/13/2014	23.0	22.4	0.100	1051	3258	3.460	36.200	34.600	-4.42%
G	1900	HEAD	04/30/2014	24.5	23.1	0.100	5d149	3258	4.050	40.400	40.500	0.25%
H	2450	HEAD	05/05/2014	23.3	22.5	0.100	797	3589	5.080	51.800	50.800	-1.93%
K	750	BODY	05/06/2014	23.9	22.7	0.100	1003	3333	0.890	8.770	8.900	1.48%
D	835	BODY	05/01/2014	24.4	24.1	0.100	4d132	3022	0.992	9.310	9.920	6.55%
D	835	BODY	05/07/2014	24.1	22.7	0.100	4d119	3022	0.991	9.340	9.910	6.10%
J	1750	BODY	05/14/2014	21.5	23.1	0.100	1051	3332	3.890	37.400	38.900	4.01%
E	1900	BODY	04/30/2014	23.1	23.4	0.100	5d149	3914	4.340	40.500	43.400	7.16%
D	1900	BODY	05/14/2014	24.0	24.5	0.100	5d149	3022	4.070	40.500	40.700	0.49%
G	2450	BODY	05/05/2014	24.0	23.1	0.100	797	3258	5.090	49.400	50.900	3.04%
G	2450	BODY	05/08/2014	24.3	23.4	0.040	797	3258	2.050	49.400	51.250	3.74%

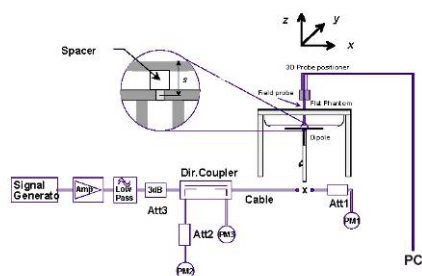


Figure 10-1
System Verification Setup Diagram



Figure 10-2
System Verification Setup Photo

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11 SAR DATA SUMMARY

11.1 Standalone Head SAR Data

Table 11-1
GSM 850 Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode/Band	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
836.60	190	GSM 850	GSM	33.0	32.89	0.04	Right	Cheek	30APR-5	1:8.3	0.033	1.026	0.034	
836.60	190	GSM 850	GSM	33.0	32.89	-0.11	Right	Tilt	30APR-5	1:8.3	0.048	1.026	0.049	A1
836.60	190	GSM 850	GSM	33.0	32.89	0.04	Left	Cheek	30APR-5	1:8.3	0.026	1.026	0.027	
836.60	190	GSM 850	GSM	33.0	32.89	0.01	Left	Tilt	30APR-5	1:8.3	0.041	1.026	0.042	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 11-2
UMTS 850 Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode/Band	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
836.60	4183	UMTS 850	RMC	23.0	22.51	0.07	Right	Cheek	30APR-5	1:1	0.031	1.119	0.035	
836.60	4183	UMTS 850	RMC	23.0	22.51	-0.05	Right	Tilt	30APR-5	1:1	0.036	1.119	0.040	A2
836.60	4183	UMTS 850	RMC	23.0	22.51	0.04	Left	Cheek	30APR-5	1:1	0.018	1.119	0.020	
836.60	4183	UMTS 850	RMC	23.0	22.51	-0.01	Left	Tilt	30APR-5	1:1	0.032	1.119	0.036	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 11-3
GSM 1900 Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode/Band	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
1880.00	661	GSM 1900	GSM	30.0	29.68	0.13	Right	Cheek	30APR-5	1:8.3	0.026	1.076	0.028	A3
1880.00	661	GSM 1900	GSM	30.0	29.68	0.15	Right	Tilt	30APR-5	1:8.3	0.014	1.076	0.015	
1880.00	661	GSM 1900	GSM	30.0	29.68	-0.14	Left	Cheek	30APR-5	1:8.3	0.016	1.076	0.017	
1880.00	661	GSM 1900	GSM	30.0	29.68	0.18	Left	Tilt	30APR-5	1:8.3	0.012	1.076	0.013	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram						

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Table 11-4
UMTS 1900 Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode/Band	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
1880.00	9400	UMTS 1900	RMC	23.0	22.77	0.13	Right	Cheek	30APR-5	1:1	0.021	1.054	0.022	
1880.00	9400	UMTS 1900	RMC	23.0	22.77	0.15	Right	Tilt	30APR-5	1:1	0.029	1.054	0.031	A4
1880.00	9400	UMTS 1900	RMC	23.0	22.77	-0.14	Left	Cheek	30APR-5	1:1	0.026	1.054	0.027	
1880.00	9400	UMTS 1900	RMC	23.0	22.77	0.18	Left	Tilt	30APR-5	1:1	0.011	1.054	0.012	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-5
LTE Band 17 Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
710.00	23790	Mid	LTE Band 17	10	22.5	22.11	0.12	0	Right	Cheek	QPSK	1	0	30APR-5	1:1	0.024	1.094	0.026	
710.00	23790	Mid	LTE Band 17	10	21.5	21.21	0.11	1	Right	Cheek	QPSK	25	0	30APR-5	1:1	0.018	1.069	0.019	
710.00	23790	Mid	LTE Band 17	10	22.5	22.11	0.16	0	Right	Tilt	QPSK	1	0	30APR-5	1:1	0.013	1.094	0.014	
710.00	23790	Mid	LTE Band 17	10	21.5	21.21	0.14	1	Right	Tilt	QPSK	25	0	30APR-5	1:1	0.010	1.069	0.011	
710.00	23790	Mid	LTE Band 17	10	22.5	22.11	0.16	0	Left	Cheek	QPSK	1	0	30APR-5	1:1	0.026	1.094	0.028	A5
710.00	23790	Mid	LTE Band 17	10	21.5	21.21	0.08	1	Left	Cheek	QPSK	25	0	30APR-5	1:1	0.019	1.069	0.020	
710.00	23790	Mid	LTE Band 17	10	22.5	22.11	0.16	0	Left	Tilt	QPSK	1	0	30APR-5	1:1	0.010	1.094	0.011	
710.00	23790	Mid	LTE Band 17	10	21.5	21.21	0.15	1	Left	Tilt	QPSK	25	0	30APR-5	1:1	0.008	1.069	0.009	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-6
LTE Band 5 (Cell) Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	22.32	0.18	0	Right	Cheek	QPSK	1	0	30APR-5	1:1	0.026	1.042	0.027	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.5	21.29	0.07	1	Right	Cheek	QPSK	25	0	30APR-5	1:1	0.023	1.050	0.024	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	22.32	0.05	0	Right	Tilt	QPSK	1	0	30APR-5	1:1	0.031	1.042	0.032	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.5	21.29	0.05	1	Right	Tilt	QPSK	25	0	30APR-5	1:1	0.030	1.050	0.032	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	22.32	0.13	0	Left	Cheek	QPSK	1	0	30APR-5	1:1	0.019	1.042	0.020	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.5	21.29	0.14	1	Left	Cheek	QPSK	25	0	30APR-5	1:1	0.014	1.050	0.015	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	22.32	0.14	0	Left	Tilt	QPSK	1	0	30APR-5	1:1	0.038	1.042	0.040	A6
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.5	21.29	0.02	1	Left	Tilt	QPSK	25	0	30APR-5	1:1	0.029	1.050	0.030	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head									
Spatial Peak										1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population										averaged over 1 gram									

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Table 11-7
LTE Band 4 (AWS) Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	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	23.0	23.00	-0.17	0	Right	Cheek	QPSK	1	0	30APR-5	1:1	0.158	1.000	0.158	A7
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.0	21.93	-0.03	1	Right	Cheek	QPSK	50	0	30APR-5	1:1	0.121	1.016	0.123	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	23.00	0.19	0	Right	Tilt	QPSK	1	0	30APR-5	1:1	0.088	1.000	0.088	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.0	21.93	0.07	1	Right	Tilt	QPSK	50	0	30APR-5	1:1	0.071	1.016	0.072	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	23.00	-0.13	0	Left	Cheek	QPSK	1	0	30APR-5	1:1	0.096	1.000	0.096	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.0	21.93	-0.17	1	Left	Cheek	QPSK	50	0	30APR-5	1:1	0.064	1.016	0.065	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	23.00	0.01	0	Left	Tilt	QPSK	1	0	30APR-5	1:1	0.091	1.000	0.091	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.0	21.93	-0.12	1	Left	Tilt	QPSK	50	0	30APR-5	1:1	0.062	1.016	0.063	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-8
LTE Band 2 (PCS) Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1900.00	19100	High	LTE Band 2 (PCS)	20	23.0	22.77	0.14	0	Right	Cheek	QPSK	1	0	30APR-5	1:1	0.041	1.054	0.043	A8
1900.00	19100	High	LTE Band 2 (PCS)	20	22.0	21.68	-0.04	1	Right	Cheek	QPSK	50	0	30APR-5	1:1	0.034	1.076	0.037	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.0	22.77	-0.20	0	Right	Tilt	QPSK	1	0	30APR-5	1:1	0.021	1.054	0.022	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.0	21.68	-0.08	1	Right	Tilt	QPSK	50	0	30APR-5	1:1	0.017	1.076	0.018	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.0	22.77	0.06	0	Left	Cheek	QPSK	1	0	30APR-5	1:1	0.037	1.054	0.039	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.0	21.68	0.08	1	Left	Cheek	QPSK	50	0	30APR-5	1:1	0.028	1.076	0.030	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.0	22.77	-0.01	0	Left	Tilt	QPSK	1	0	30APR-5	1:1	0.021	1.054	0.022	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.0	21.68	-0.05	1	Left	Tilt	QPSK	50	0	30APR-5	1:1	0.018	1.076	0.019	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-9
DTS Head SAR – Antenna 1 WLAN SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Data Rate (Mbps)	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
2437	6	IEEE 802.11b	DSSS	12.5	12.13	-0.05	Right	Cheek	30APR-2	1	1:1	0.046	1.089	0.050	
2437	6	IEEE 802.11b	DSSS	12.5	12.13	0.20	Right	Tilt	30APR-2	1	1:1	0.068	1.089	0.074	
2437	6	IEEE 802.11b	DSSS	12.5	12.13	0.08	Left	Cheek	30APR-2	1	1:1	0.197	1.089	0.215	
2437	6	IEEE 802.11b	DSSS	12.5	12.13	0.09	Left	Tilt	30APR-2	1	1:1	0.201	1.089	0.219	A9
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 11-10
DTS Head SAR – Antenna 2 WLAN SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Data Rate (Mbps)	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	0.16	Right	Cheek	30APR-2	1	1:1	0.033	1.035	0.034	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	0.04	Right	Tilt	30APR-2	1	1:1	0.023	1.035	0.024	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	0.12	Left	Cheek	30APR-2	1	1:1	0.109	1.035	0.113	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	0.04	Left	Tilt	30APR-2	1	1:1	0.085	1.035	0.088	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-11
DTS Head SAR – MIMO WLAN SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Data Rate (Mbps)	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	0.04	Right	Cheek	30APR-2	13	1:1	0.020	1.009	0.020	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	0.08	Right	Tilt	30APR-2	13	1:1	0.018	1.009	0.018	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	-0.03	Left	Cheek	30APR-2	13	1:1	0.107	1.009	0.108	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	0.13	Left	Tilt	30APR-2	13	1:1	0.104	1.009	0.105	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

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11.2 Standalone Body SAR Data

Table 11-12
GPRS/UMTS Body SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Number	# of GPRS Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
836.60	190	GSM 850	GPRS	28.5	28.15	0.02	15 mm	30APR-5	3	1:2.76	back	0.330	1.084	0.358	
836.60	190	GSM 850	GPRS	20.5	20.32	-0.14	0 mm	30APR-1	3	1:2.76	back	0.359	1.042	0.374	A10
836.60	190	GSM 850	GPRS	28.5	28.15	-0.01	10 mm	30APR-5	3	1:2.76	bottom	0.295	1.084	0.320	
836.60	190	GSM 850	GPRS	20.5	20.32	-0.07	0 mm	30APR-1	3	1:2.76	bottom	0.108	1.042	0.113	
836.60	190	GSM 850	GPRS	28.5	28.15	0.05	4 mm	30APR-5	3	1:2.76	right	0.265	1.084	0.287	
836.60	190	GSM 850	GPRS	20.5	20.32	-0.07	0 mm	30APR-1	3	1:2.76	right	0.073	1.042	0.076	
836.60	190	GSM 850	GPRS	28.5	28.15	0.01	0 mm	30APR-5	3	1:2.76	left	0.100	1.084	0.108	
1880.00	661	GSM 1900	GPRS	25.5	25.47	-0.02	15 mm	30APR-5	3	1:2.76	back	0.270	1.007	0.272	
1880.00	661	GSM 1900	GPRS	13.0	12.90	0.20	0 mm	30APR-1	3	1:2.76	back	0.339	1.023	0.347	A11
1880.00	661	GSM 1900	GPRS	25.5	25.47	0.10	10 mm	30APR-5	3	1:2.76	bottom	0.308	1.007	0.310	
1880.00	661	GSM 1900	GPRS	13.0	12.90	-0.10	0 mm	30APR-1	3	1:2.76	bottom	0.155	1.023	0.159	
1880.00	661	GSM 1900	GPRS	25.5	25.47	-0.10	4 mm	30APR-5	3	1:2.76	right	0.130	1.007	0.131	
1880.00	661	GSM 1900	GPRS	13.0	12.90	0.13	0 mm	30APR-1	3	1:2.76	right	0.008	1.023	0.008	
1880.00	661	GSM 1900	GPRS	25.5	25.47	0.02	0 mm	30APR-5	3	1:2.76	left	0.077	1.007	0.078	
836.60	4183	UMTS 850	RMC	23.0	22.51	0.02	15 mm	30APR-5	N/A	1:1	back	0.355	1.119	0.397	
836.60	4183	UMTS 850	RMC	15.5	15.13	-0.20	0 mm	30APR-2	N/A	1:1	back	0.444	1.089	0.484	A12
836.60	4183	UMTS 850	RMC	23.0	22.51	0.00	10 mm	30APR-5	N/A	1:1	bottom	0.261	1.119	0.292	
836.60	4183	UMTS 850	RMC	15.5	15.13	0.01	0 mm	30APR-2	N/A	1:1	bottom	0.154	1.089	0.168	
836.60	4183	UMTS 850	RMC	23.0	22.51	-0.02	4 mm	30APR-5	N/A	1:1	right	0.198	1.119	0.222	
836.60	4183	UMTS 850	RMC	15.5	15.13	-0.01	0 mm	30APR-2	N/A	1:1	right	0.077	1.089	0.084	
836.60	4183	UMTS 850	RMC	23.0	22.51	-0.05	0 mm	30APR-5	N/A	1:1	left	0.036	1.119	0.040	
1880.00	9400	UMTS 1900	RMC	23.0	22.77	0.04	15 mm	30APR-5	N/A	1:1	back	0.527	1.054	0.555	
1880.00	9400	UMTS 1900	RMC	11.0	10.71	-0.21	0 mm	30APR-2	N/A	1:1	back	0.570	1.069	0.609	A13
1880.00	9400	UMTS 1900	RMC	23.0	22.77	-0.01	10 mm	30APR-5	N/A	1:1	bottom	0.480	1.054	0.506	
1880.00	9400	UMTS 1900	RMC	11.0	10.71	0.02	0 mm	30APR-2	N/A	1:1	bottom	0.199	1.069	0.213	
1880.00	9400	UMTS 1900	RMC	23.0	22.77	0.02	4 mm	30APR-5	N/A	1:1	right	0.088	1.054	0.093	
1880.00	9400	UMTS 1900	RMC	11.0	10.71	0.12	0 mm	30APR-2	N/A	1:1	right	0.019	1.069	0.020	
1880.00	9400	UMTS 1900	RMC	23.0	22.77	0.07	0 mm	30APR-5	N/A	1:1	left	0.138	1.054	0.145	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 11-13
LTE Band 17 Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
710.00	23790	Mid	LTE Band 17	10	22.5	22.11	0.04	0	30APR-5	QPSK	1	0	15 mm	back	1:1	0.136	1.094	0.149	
710.00	23790	Mid	LTE Band 17	10	21.5	21.21	0.07	1	30APR-5	QPSK	25	0	15 mm	back	1:1	0.111	1.069	0.119	
710.00	23790	Mid	LTE Band 17	10	22.5	22.11	0.06	0	30APR-5	QPSK	1	0	10 mm	bottom	1:1	0.116	1.094	0.127	
710.00	23790	Mid	LTE Band 17	10	21.5	21.21	0.08	1	30APR-5	QPSK	25	0	10 mm	bottom	1:1	0.096	1.069	0.103	
710.00	23790	Mid	LTE Band 17	10	22.5	22.11	0.14	0	30APR-5	QPSK	1	0	4 mm	right	1:1	0.095	1.094	0.104	
710.00	23790	Mid	LTE Band 17	10	21.5	21.21	0.04	1	30APR-5	QPSK	25	0	4 mm	right	1:1	0.078	1.069	0.083	
710.00	23790	Mid	LTE Band 17	10	22.5	22.11	-0.13	0	30APR-5	QPSK	1	0	0 mm	left	1:1	0.047	1.094	0.051	
710.00	23790	Mid	LTE Band 17	10	21.5	21.21	0.05	1	30APR-5	QPSK	25	0	0 mm	left	1:1	0.033	1.069	0.035	
710.00	23790	Mid	LTE Band 17	10	14.5	14.50	-0.07	0	30APR-2	QPSK	1	0	0 mm	back	1:1	0.382	1.000	0.382	A14
710.00	23790	Mid	LTE Band 17	10	14.5	14.49	-0.08	0	30APR-2	QPSK	25	0	0 mm	back	1:1	0.380	1.002	0.381	
710.00	23790	Mid	LTE Band 17	10	14.5	14.50	0.16	0	30APR-2	QPSK	1	0	0 mm	bottom	1:1	0.184	1.000	0.184	
710.00	23790	Mid	LTE Band 17	10	14.5	14.49	-0.03	0	30APR-2	QPSK	25	0	0 mm	bottom	1:1	0.186	1.002	0.186	
710.00	23790	Mid	LTE Band 17	10	14.5	14.50	0.01	0	30APR-2	QPSK	1	0	0 mm	right	1:1	0.059	1.000	0.059	
710.00	23790	Mid	LTE Band 17	10	14.5	14.49	0.06	0	30APR-2	QPSK	25	0	0 mm	right	1:1	0.059	1.002	0.059	
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 11-14
LTE Band 5 (Cell) Body SAR

MEASUREMENT RESULTS																			
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
																(W/kg)		(W/kg)	
MHz	Ch.																		
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	22.32	0.04	0	30APR-5	QPSK	1	0	15 mm	back	1:1	0.307	1.042	0.320	A15
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.5	21.29	-0.02	1	30APR-5	QPSK	25	0	15 mm	back	1:1	0.243	1.050	0.255	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	22.32	0.10	0	30APR-5	QPSK	1	0	10 mm	bottom	1:1	0.225	1.042	0.234	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.5	21.29	0.17	1	30APR-5	QPSK	25	0	10 mm	bottom	1:1	0.206	1.050	0.216	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	22.32	-0.13	0	30APR-5	QPSK	1	0	4 mm	right	1:1	0.119	1.042	0.124	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.5	21.29	-0.19	1	30APR-5	QPSK	25	0	4 mm	right	1:1	0.143	1.050	0.150	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.5	22.32	0.04	0	30APR-5	QPSK	1	0	0 mm	left	1:1	0.031	1.042	0.032	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.5	21.29	0.17	1	30APR-5	QPSK	25	0	0 mm	left	1:1	0.032	1.050	0.034	
836.50	20525	Mid	LTE Band 5 (Cell)	10	10.5	9.95	0.14	0	30APR-1	QPSK	1	0	0 mm	back	1:1	0.095	1.135	0.108	
836.50	20525	Mid	LTE Band 5 (Cell)	10	10.5	10.00	-0.01	0	30APR-1	QPSK	25	0	0 mm	back	1:1	0.096	1.122	0.108	
836.50	20525	Mid	LTE Band 5 (Cell)	10	10.5	9.95	0.08	0	30APR-1	QPSK	1	0	0 mm	bottom	1:1	0.029	1.135	0.033	
836.50	20525	Mid	LTE Band 5 (Cell)	10	10.5	10.00	0.04	0	30APR-1	QPSK	25	0	0 mm	bottom	1:1	0.030	1.122	0.034	
836.50	20525	Mid	LTE Band 5 (Cell)	10	10.5	9.95	0.02	0	30APR-1	QPSK	1	0	0 mm	right	1:1	0.021	1.135	0.024	
836.50	20525	Mid	LTE Band 5 (Cell)	10	10.5	10.00	0.03	0	30APR-1	QPSK	25	0	0 mm	right	1:1	0.021	1.122	0.024	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																			
Spatial Peak								Body											
Uncontrolled Exposure/General Population								1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-15
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	23.0	23.00	-0.03	0	30APR-5	QPSK	1	0	15 mm	back	1:1	0.550	1.000	0.550	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.0	21.93	-0.11	1	30APR-5	QPSK	50	0	15 mm	back	1:1	0.441	1.016	0.448	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	23.00	-0.12	0	30APR-5	QPSK	1	0	10 mm	bottom	1:1	0.436	1.000	0.436	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.0	21.93	-0.08	1	30APR-5	QPSK	50	0	10 mm	bottom	1:1	0.353	1.016	0.359	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	23.00	-0.08	0	30APR-5	QPSK	1	0	4 mm	right	1:1	0.630	1.000	0.630	A16
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.0	21.93	-0.11	1	30APR-5	QPSK	50	0	4 mm	right	1:1	0.462	1.016	0.469	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	23.00	0.13	0	30APR-5	QPSK	1	0	0 mm	left	1:1	0.043	1.000	0.043	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.0	21.93	0.10	1	30APR-5	QPSK	50	0	0 mm	left	1:1	0.033	1.016	0.034	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	10.5	10.40	0.04	0	30APR-2	QPSK	1	0	0 mm	back	1:1	0.442	1.023	0.452	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	10.5	10.34	0.01	0	30APR-2	QPSK	50	0	0 mm	back	1:1	0.440	1.038	0.457	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	10.5	10.40	0.01	0	30APR-2	QPSK	1	0	0 mm	bottom	1:1	0.182	1.023	0.186	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	10.5	10.34	-0.02	0	30APR-2	QPSK	50	0	0 mm	bottom	1:1	0.183	1.038	0.190	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	10.5	10.40	0.04	0	30APR-2	QPSK	1	0	0 mm	right	1:1	0.092	1.023	0.094	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	10.5	10.34	0.03	0	30APR-2	QPSK	50	0	0 mm	right	1:1	0.089	1.038	0.092	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																			

Table 11-16
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 Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1900.00	19100	High	LTE Band 2 (PCS)	20	23.0	22.77	-0.18	0	30APR-5	QPSK	1	0	15 mm	back	1:1	0.433	1.054	0.456	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.0	21.68	-0.06	1	30APR-5	QPSK	50	0	15 mm	back	1:1	0.345	1.076	0.371	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.0	22.77	-0.01	0	30APR-5	QPSK	1	0	10 mm	bottom	1:1	0.538	1.054	0.567	A17
1900.00	19100	High	LTE Band 2 (PCS)	20	22.0	21.68	-0.10	1	30APR-5	QPSK	50	0	10 mm	bottom	1:1	0.408	1.076	0.439	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.0	22.77	-0.01	0	30APR-5	QPSK	1	0	4 mm	right	1:1	0.249	1.054	0.262	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.0	21.68	-0.10	1	30APR-5	QPSK	50	0	4 mm	right	1:1	0.198	1.076	0.213	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.0	22.77	0.14	0	30APR-5	QPSK	1	0	0 mm	left	1:1	0.134	1.054	0.141	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.0	21.68	-0.04	1	30APR-5	QPSK	50	0	0 mm	left	1:1	0.107	1.076	0.115	
1900.00	19100	High	LTE Band 2 (PCS)	20	10.5	10.44	-0.09	0	30APR-2	QPSK	1	0	0 mm	back	1:1	0.508	1.014	0.515	
1860.00	18700	Low	LTE Band 2 (PCS)	20	10.5	10.40	-0.09	0	30APR-2	QPSK	50	0	0 mm	back	1:1	0.498	1.023	0.509	
1900.00	19100	High	LTE Band 2 (PCS)	20	10.5	10.44	-0.02	0	30APR-2	QPSK	1	0	0 mm	bottom	1:1	0.253	1.014	0.257	
1860.00	18700	Low	LTE Band 2 (PCS)	20	10.5	10.40	-0.05	0	30APR-2	QPSK	50	0	0 mm	bottom	1:1	0.231	1.023	0.236	
1900.00	19100	High	LTE Band 2 (PCS)	20	10.5	10.44	-0.09	0	30APR-2	QPSK	1	0	0 mm	right	1:1	0.016	1.014	0.016	
1860.00	18700	Low	LTE Band 2 (PCS)	20	10.5	10.40	0.12	0	30APR-2	QPSK	50	0	0 mm	right	1:1	0.030	1.023	0.031	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-17
DTS Body SAR – Antenna 1 WLAN 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)	
2412	1	IEEE 802.11b	DSSS	12.5	11.85	-0.10	0 mm	30APR-2	1	back	1:1	0.659	1.161	0.765	
2437	6	IEEE 802.11b	DSSS	12.5	12.13	-0.04	0 mm	30APR-2	1	back	1:1	0.736	1.089	0.802	
2462	11	IEEE 802.11b	DSSS	12.5	11.79	0.07	0 mm	30APR-2	1	back	1:1	0.552	1.178	0.650	
2412	1	IEEE 802.11b	DSSS	12.5	11.85	0.03	0 mm	30APR-2	1	top	1:1	0.608	1.161	0.706	
2437	6	IEEE 802.11b	DSSS	12.5	12.13	-0.01	0 mm	30APR-2	1	top	1:1	0.636	1.089	0.693	
2462	11	IEEE 802.11b	DSSS	12.5	11.79	0.02	0 mm	30APR-2	1	top	1:1	0.411	1.178	0.484	
2437	6	IEEE 802.11b	DSSS	12.5	12.13	0.13	0 mm	30APR-2	1	right	1:1	0.022	1.089	0.024	
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 11-18
DTS Body SAR – Antenna 2 WLAN 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)	
2412	1	IEEE 802.11b	DSSS	12.5	11.88	0.06	0 mm	30APR-2	1	back	1:1	0.760	1.153	0.876	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	0.07	0 mm	30APR-2	1	back	1:1	0.914	1.035	0.946	A18
2462	11	IEEE 802.11b	DSSS	12.5	11.30	0.07	0 mm	30APR-2	1	back	1:1	0.565	1.318	0.745	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	0.04	0 mm	30APR-2	1	top	1:1	0.122	1.035	0.126	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	-0.05	0 mm	30APR-2	1	right	1:1	0.316	1.035	0.327	
2437	6	IEEE 802.11b	DSSS	12.5	12.35	0.15	0 mm	30APR-2	1	back	1:1	0.857	1.035	0.887	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram								

Blue entry represents variability measurement

Table 11-19
DTS Body SAR – MIMO WLAN 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)	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	-0.13	0 mm	30APR-2	13	back	1:1	0.354	1.009	0.357	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	-0.07	0 mm	30APR-2	13	top	1:1	0.271	1.009	0.273	
2437	6	IEEE 802.11n	OFDM	10.5	10.46	0.04	0 mm	30APR-2	13	right	1:1	0.111	1.009	0.112	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 11-20
Bluetooth Body SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
2441	39	Bluetooth	FHSS	10.5	9.61	-0.06	0 mm	30APR-2	1	back	1:1	0.124	1.227	0.152	A19
2441	39	Bluetooth	FHSS	10.5	9.61	0.05	0 mm	30APR-2	1	top	1:1	0.088	1.227	0.108	
2441	39	Bluetooth	FHSS	10.5	9.61	0.18	0 mm	30APR-2	1	right	1:1	0.006	1.227	0.007	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram								

11.3 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2003, FCC KDB 616217 and FCC KDB Publication 447498 D01v05.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v05.
6. Per FCC KDB 865664 D01 v01, variability SAR tests were performed when the measured SAR results for a frequency band were greater than 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 13 for variability analysis.
7. Per FCC KDB 616217 D04 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D01v05 was applied to determine SAR test exclusion for adjacent edge configurations. Bottom and right and left edges SAR tests were required for the main antenna (GSM/GPRS/EDGE 850/1900, UMTS B2 & B5, and LTE B2, B4, B5, B17). Top and right edges SAR tests were required for the WLAN/BT antennas.
8. Head SAR testing was required for this tablet because it has a speaker/receiver and microphone positioning that allows for a held-to-ear configuration usage. Head SAR tests for main antenna were performed at max power levels for all modes.

GSM Test Notes:

1. Justification for reduced test configurations per KDB Publication 941225 D03v01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for body SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
2. Per FCC KDB Publication 447498 D01v05, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

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UMTS Notes:

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

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r01. The general test procedures used for testing can be found in Section 8.4.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
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).

WLAN Notes:

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

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12 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

12.1 Introduction

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

12.2 Simultaneous Transmission Procedures

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

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

Table 12-1
Estimated SAR

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

Note:

1. Held-to ear configurations are not applicable to Bluetooth operations and therefore were not considered for simultaneous transmission.
2. Per KDB Publication 447498 D01v05, the maximum power of the channel was rounded to the nearest mW before calculation.
3. When the test separation distance was > 50 mm, an estimated SAR of 0.4 W/kg was used to determine simultaneous transmission SAR exclusion, for configurations excluded per FCC KDB Publication 447498 D01v05. When the test separation distance was < 50 mm, an estimated SAR was determined per FCC KDB Publication 447498 D01v05.
4. (*) - Per FCC KDB 447498, when the test separation distance is <5 mm, a distance of 5 mm is applied to determine estimated SAR.

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12.3 Head SAR Simultaneous Transmission Analysis

Table 12-2
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant. 1 (Held to Ear)

Simult Tx	Configuration	GSM 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GSM 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.034	0.050	0.084	Head SAR	Right Cheek	0.028	0.050	0.078
	Right Tilt	0.049	0.074	0.123		Right Tilt	0.015	0.074	0.089
	Left Cheek	0.027	0.215	0.242		Left Cheek	0.017	0.215	0.232
	Left Tilt	0.042	0.219	0.261		Left Tilt	0.013	0.219	0.232
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.035	0.050	0.085	Head SAR	Right Cheek	0.022	0.050	0.072
	Right Tilt	0.040	0.074	0.114		Right Tilt	0.031	0.074	0.105
	Left Cheek	0.020	0.215	0.235		Left Cheek	0.027	0.215	0.242
	Left Tilt	0.036	0.219	0.255		Left Tilt	0.012	0.219	0.231
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.026	0.050	0.076	Head SAR	Right Cheek	0.027	0.050	0.077
	Right Tilt	0.014	0.074	0.088		Right Tilt	0.032	0.074	0.106
	Left Cheek	0.028	0.215	0.243		Left Cheek	0.020	0.215	0.235
	Left Tilt	0.011	0.219	0.230		Left Tilt	0.040	0.219	0.259
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.158	0.050	0.208	Head SAR	Right Cheek	0.043	0.050	0.093
	Right Tilt	0.088	0.074	0.162		Right Tilt	0.022	0.074	0.096
	Left Cheek	0.096	0.215	0.311		Left Cheek	0.039	0.215	0.254
	Left Tilt	0.091	0.219	0.310		Left Tilt	0.022	0.219	0.241

Table 12-3
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant. 2 (Held to Ear)

Simult Tx	Configuration	GSM 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GSM 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.034	0.034	0.068	Head SAR	Right Cheek	0.028	0.034	0.062
	Right Tilt	0.049	0.024	0.073		Right Tilt	0.015	0.024	0.039
	Left Cheek	0.027	0.113	0.140		Left Cheek	0.017	0.113	0.130
	Left Tilt	0.042	0.088	0.130		Left Tilt	0.013	0.088	0.101
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.035	0.034	0.069	Head SAR	Right Cheek	0.022	0.034	0.056
	Right Tilt	0.040	0.024	0.064		Right Tilt	0.031	0.024	0.055
	Left Cheek	0.020	0.113	0.133		Left Cheek	0.027	0.113	0.140
	Left Tilt	0.036	0.088	0.124		Left Tilt	0.012	0.088	0.100
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.026	0.034	0.060	Head SAR	Right Cheek	0.027	0.034	0.061
	Right Tilt	0.014	0.024	0.038		Right Tilt	0.032	0.024	0.056
	Left Cheek	0.028	0.113	0.141		Left Cheek	0.020	0.113	0.133
	Left Tilt	0.011	0.088	0.099		Left Tilt	0.040	0.088	0.128

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Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.158	0.034	0.192	Head SAR	Right Cheek	0.043	0.034	0.077
	Right Tilt	0.088	0.024	0.112		Right Tilt	0.022	0.024	0.046
	Left Cheek	0.096	0.113	0.209		Left Cheek	0.039	0.113	0.152
	Left Tilt	0.091	0.088	0.179		Left Tilt	0.022	0.088	0.110

Table 12-4
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO (Held to Ear)

Simult Tx	Configuration	GSM 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GSM 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.034	0.020	0.054	Head SAR	Right Cheek	0.028	0.020	0.048
	Right Tilt	0.049	0.018	0.067		Right Tilt	0.015	0.018	0.033
	Left Cheek	0.027	0.108	0.135		Left Cheek	0.017	0.108	0.125
	Left Tilt	0.042	0.105	0.147		Left Tilt	0.013	0.105	0.118
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.035	0.020	0.055	Head SAR	Right Cheek	0.022	0.020	0.042
	Right Tilt	0.040	0.018	0.058		Right Tilt	0.031	0.018	0.049
	Left Cheek	0.020	0.108	0.128		Left Cheek	0.027	0.108	0.135
	Left Tilt	0.036	0.105	0.141		Left Tilt	0.012	0.105	0.117
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.026	0.020	0.046	Head SAR	Right Cheek	0.027	0.020	0.047
	Right Tilt	0.014	0.018	0.032		Right Tilt	0.032	0.018	0.050
	Left Cheek	0.028	0.108	0.136		Left Cheek	0.020	0.108	0.128
	Left Tilt	0.011	0.105	0.116		Left Tilt	0.040	0.105	0.145
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.158	0.020	0.178	Head SAR	Right Cheek	0.043	0.020	0.063
	Right Tilt	0.088	0.018	0.106		Right Tilt	0.022	0.018	0.040
	Left Cheek	0.096	0.108	0.204		Left Cheek	0.039	0.108	0.147
	Left Tilt	0.091	0.105	0.196		Left Tilt	0.022	0.105	0.127

Table 12-5
Simultaneous Transmission Scenario with 5 GHz WLAN Ant. 1, 2 and MIMO (Held to Ear)

Simult Tx	Configuration	GSM 850 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GSM 1900 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.034	0.386	0.420	Head SAR	Right Cheek	0.028	0.386	0.414
	Right Tilt	0.049	0.386	0.435		Right Tilt	0.015	0.386	0.401
	Left Cheek	0.027	0.386	0.413		Left Cheek	0.017	0.386	0.403
	Left Tilt	0.042	0.386	0.428		Left Tilt	0.013	0.386	0.399
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Head SAR	Right Cheek	0.035	0.386	0.421	Head SAR	Right Cheek	0.022	0.386	0.408
	Right Tilt	0.040	0.386	0.426		Right Tilt	0.031	0.386	0.417
	Left Cheek	0.020	0.386	0.406		Left Cheek	0.027	0.386	0.413
	Left Tilt	0.036	0.386	0.422		Left Tilt	0.012	0.386	0.398

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12.4 Body Simultaneous Transmission Analysis

Table 12-6
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant. 1 (Body at 0.0 cm)

Simult Tx	Configuration	GPRS 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.374	0.802	1.176	Body SAR	Back	0.347	0.802	1.149
	Top	0.400	0.706	1.106		Top	0.400	0.706	1.106
	Bottom	0.113	0.400	0.513		Bottom	0.159	0.400	0.559
	Right	0.076	0.024	0.100		Right	0.008	0.024	0.032
	Left	0.108	0.400	0.508		Left	0.078	0.400	0.478
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.484	0.802	1.286	Body SAR	Back	0.609	0.802	1.411
	Top	0.400	0.706	1.106		Top	0.400	0.706	1.106
	Bottom	0.168	0.400	0.568		Bottom	0.213	0.400	0.613
	Right	0.084	0.024	0.108		Right	0.020	0.024	0.044
	Left	0.040	0.400	0.440		Left	0.145	0.400	0.545
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.382	0.802	1.184	Body SAR	Back	0.108	0.802	0.910
	Top	0.400	0.706	1.106		Top	0.400	0.706	1.106
	Bottom	0.186	0.400	0.586		Bottom	0.034	0.400	0.434
	Right	0.059	0.024	0.083		Right	0.024	0.024	0.048
	Left	0.051	0.400	0.451		Left	0.034	0.400	0.434
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.457	0.802	1.259	Body SAR	Back	0.515	0.802	1.317
	Top	0.400	0.706	1.106		Top	0.400	0.706	1.106
	Bottom	0.190	0.400	0.590		Bottom	0.257	0.400	0.657
	Right	0.094	0.024	0.118		Right	0.031	0.024	0.055
	Left	0.043	0.400	0.443		Left	0.141	0.400	0.541

Table 12-7
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant. 2 (Body at 0.0 cm)

Simult Tx	Configuration	GPRS 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.374	0.946	1.320	Body SAR	Back	0.347	0.946	1.293
	Top	0.400	0.126	0.526		Top	0.400	0.126	0.526
	Bottom	0.113	0.400	0.513		Bottom	0.159	0.400	0.559
	Right	0.076	0.327	0.403		Right	0.008	0.327	0.335
	Left	0.108	0.400	0.508		Left	0.078	0.400	0.478
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.484	0.946	1.430	Body SAR	Back	0.609	0.946	1.555
	Top	0.400	0.126	0.526		Top	0.400	0.126	0.526
	Bottom	0.168	0.400	0.568		Bottom	0.213	0.400	0.613
	Right	0.084	0.327	0.411		Right	0.020	0.327	0.347
	Left	0.040	0.400	0.440		Left	0.145	0.400	0.545

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Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.382	0.946	1.328	Body SAR	Back	0.108	0.946	1.054
	Top	0.400	0.126	0.526		Top	0.400	0.126	0.526
	Bottom	0.186	0.400	0.586		Bottom	0.034	0.400	0.434
	Right	0.059	0.327	0.386		Right	0.024	0.327	0.351
	Left	0.051	0.400	0.451		Left	0.034	0.400	0.434
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.457	0.946	1.403	Body SAR	Back	0.515	0.946	1.461
	Top	0.400	0.126	0.526		Top	0.400	0.126	0.526
	Bottom	0.190	0.400	0.590		Bottom	0.257	0.400	0.657
	Right	0.094	0.327	0.421		Right	0.031	0.327	0.358
	Left	0.043	0.400	0.443		Left	0.141	0.400	0.541

Table 12-8
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO (Body at 0.0 cm)

Simult Tx	Configuration	GPRS 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.374	0.357	0.731	Body SAR	Back	0.347	0.357	0.704
	Top	0.400	0.273	0.673		Top	0.400	0.273	0.673
	Bottom	0.113	0.400	0.513		Bottom	0.159	0.400	0.559
	Right	0.076	0.112	0.188		Right	0.008	0.112	0.120
	Left	0.108	0.400	0.508		Left	0.078	0.400	0.478
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.484	0.357	0.841	Body SAR	Back	0.609	0.357	0.966
	Top	0.400	0.273	0.673		Top	0.400	0.273	0.673
	Bottom	0.168	0.400	0.568		Bottom	0.213	0.400	0.613
	Right	0.084	0.112	0.196		Right	0.020	0.112	0.132
	Left	0.040	0.400	0.440		Left	0.145	0.400	0.545
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.382	0.357	0.739	Body SAR	Back	0.108	0.357	0.465
	Top	0.400	0.273	0.673		Top	0.400	0.273	0.673
	Bottom	0.186	0.400	0.586		Bottom	0.034	0.400	0.434
	Right	0.059	0.112	0.171		Right	0.024	0.112	0.136
	Left	0.051	0.400	0.451		Left	0.034	0.400	0.434
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.457	0.357	0.814	Body SAR	Back	0.515	0.357	0.872
	Top	0.400	0.273	0.673		Top	0.400	0.273	0.673
	Bottom	0.190	0.400	0.590		Bottom	0.257	0.400	0.657
	Right	0.094	0.112	0.206		Right	0.031	0.112	0.143
	Left	0.043	0.400	0.443		Left	0.141	0.400	0.541

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Table 12-9
Simultaneous Transmission Scenario with 5 GHz WLAN Ant. 1 (Body at 0.0 cm)

Simult Tx	Configuration	GPRS 850 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.374	0.386	0.760	Body SAR	Back	0.347	0.386	0.733
	Top	0.400	0.386	0.786		Top	0.400	0.386	0.786
	Bottom	0.113	0.400	0.513		Bottom	0.159	0.400	0.559
	Right	0.076	0.114	0.190		Right	0.008	0.114	0.122
	Left	0.108	0.400	0.508		Left	0.078	0.400	0.478
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.484	0.386	0.870	Body SAR	Back	0.609	0.386	0.995
	Top	0.400	0.386	0.786		Top	0.400	0.386	0.786
	Bottom	0.168	0.400	0.568		Bottom	0.213	0.400	0.613
	Right	0.084	0.114	0.198		Right	0.020	0.114	0.134
	Left	0.040	0.400	0.440		Left	0.145	0.400	0.545
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.382	0.386	0.768	Body SAR	Back	0.108	0.386	0.494
	Top	0.400	0.386	0.786		Top	0.400	0.386	0.786
	Bottom	0.186	0.400	0.586		Bottom	0.034	0.400	0.434
	Right	0.059	0.114	0.173		Right	0.024	0.114	0.138
	Left	0.051	0.400	0.451		Left	0.034	0.400	0.434
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.457	0.386	0.843	Body SAR	Back	0.515	0.386	0.901
	Top	0.400	0.386	0.786		Top	0.400	0.386	0.786
	Bottom	0.190	0.400	0.590		Bottom	0.257	0.400	0.657
	Right	0.094	0.114	0.208		Right	0.031	0.114	0.145
	Left	0.043	0.400	0.443		Left	0.141	0.400	0.541

Table 12-10
Simultaneous Transmission Scenario with 5 GHz WLAN Ant. 2 (Body at 0.0 cm)

Simult Tx	Configuration	GPRS 850 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.374	0.386	0.760	Body SAR	Back	0.347	0.386	0.733
	Top	0.400	0.149	0.549		Top	0.400	0.149	0.549
	Bottom	0.113	0.400	0.513		Bottom	0.159	0.400	0.559
	Right	0.076	0.386	0.462		Right	0.008	0.386	0.394
	Left	0.108	0.400	0.508		Left	0.078	0.400	0.478
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.484	0.386	0.870	Body SAR	Back	0.609	0.386	0.995
	Top	0.400	0.149	0.549		Top	0.400	0.149	0.549
	Bottom	0.168	0.400	0.568		Bottom	0.213	0.400	0.613
	Right	0.084	0.386	0.470		Right	0.020	0.386	0.406
	Left	0.040	0.400	0.440		Left	0.145	0.400	0.545
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.382	0.386	0.768	Body SAR	Back	0.108	0.386	0.494
	Top	0.400	0.149	0.549		Top	0.400	0.149	0.549
	Bottom	0.186	0.400	0.586		Bottom	0.034	0.400	0.434
	Right	0.059	0.386	0.445		Right	0.024	0.386	0.410
	Left	0.051	0.400	0.451		Left	0.034	0.400	0.434

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Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.457	0.386	0.843	Body SAR	Back	0.515	0.386	0.901
	Top	0.400	0.149	0.549		Top	0.400	0.149	0.549
	Bottom	0.190	0.400	0.590		Bottom	0.257	0.400	0.657
	Right	0.094	0.386	0.480		Right	0.031	0.386	0.417
	Left	0.043	0.400	0.443		Left	0.141	0.400	0.541

Table 12-11
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Body at 0.0 cm)

Simult Tx	Configuration	GPRS 850 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.374	0.386	0.760	Body SAR	Back	0.347	0.386	0.733
	Top	0.400	0.386	0.786		Top	0.400	0.386	0.786
	Bottom	0.113	0.400	0.513		Bottom	0.159	0.400	0.559
	Right	0.076	0.386	0.462		Right	0.008	0.386	0.394
	Left	0.108	0.400	0.508		Left	0.078	0.400	0.478
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.484	0.386	0.870	Body SAR	Back	0.609	0.386	0.995
	Top	0.400	0.386	0.786		Top	0.400	0.386	0.786
	Bottom	0.168	0.400	0.568		Bottom	0.213	0.400	0.613
	Right	0.084	0.386	0.470		Right	0.020	0.386	0.406
	Left	0.040	0.400	0.440		Left	0.145	0.400	0.545
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.382	0.386	0.768	Body SAR	Back	0.108	0.386	0.494
	Top	0.400	0.386	0.786		Top	0.400	0.386	0.786
	Bottom	0.186	0.400	0.586		Bottom	0.034	0.400	0.434
	Right	0.059	0.386	0.445		Right	0.024	0.386	0.410
	Left	0.051	0.400	0.451		Left	0.034	0.400	0.434
Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.457	0.386	0.843	Body SAR	Back	0.515	0.386	0.901
	Top	0.400	0.386	0.786		Top	0.400	0.386	0.786
	Bottom	0.190	0.400	0.590		Bottom	0.257	0.400	0.657
	Right	0.094	0.386	0.480		Right	0.031	0.386	0.417
	Left	0.043	0.400	0.443		Left	0.141	0.400	0.541

Table 12-12
Simultaneous Transmission Scenario with Bluetooth (Body at 0.0 cm)

Simult Tx	Configuration	GPRS 850 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.374	0.208	0.582	Body SAR	Back	0.347	0.208	0.555
	Top	0.400	0.208	0.608		Top	0.400	0.208	0.608
	Bottom	0.113	0.400	0.513		Bottom	0.159	0.400	0.559
	Right	0.076	0.061	0.137		Right	0.008	0.061	0.069
	Left	0.108	0.400	0.508		Left	0.078	0.400	0.478

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Simult Tx	Configuration	UMTS 850 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.484	0.208	0.692	Body SAR	Back	0.609	0.208	0.817
	Top	0.400	0.208	0.608		Top	0.400	0.208	0.608
	Bottom	0.168	0.400	0.568		Bottom	0.213	0.400	0.613
	Right	0.084	0.061	0.145		Right	0.020	0.061	0.081
	Left	0.040	0.400	0.440		Left	0.145	0.400	0.545
Simult Tx	Configuration	LTE Band 17 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.382	0.208	0.590	Body SAR	Back	0.108	0.208	0.316
	Top	0.400	0.208	0.608		Top	0.400	0.208	0.608
	Bottom	0.186	0.400	0.586		Bottom	0.034	0.400	0.434
	Right	0.059	0.061	0.120		Right	0.024	0.061	0.085
	Left	0.051	0.400	0.451		Left	0.034	0.400	0.434
Simult Tx	Configuration	LTE Band 4 (AWS) 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)
Body SAR	Back	0.457	0.208	0.665	Body SAR	Back	0.515	0.208	0.723
	Top	0.400	0.208	0.608		Top	0.400	0.208	0.608
	Bottom	0.190	0.400	0.590		Bottom	0.257	0.400	0.657
	Right	0.094	0.061	0.155		Right	0.031	0.061	0.092
	Left	0.043	0.400	0.443		Left	0.141	0.400	0.541

Note: Estimated Bluetooth LE SAR result for back, top and right edge was used in the above table to determine simultaneous transmission SAR test exclusion since it was more conservative than Bluetooth reported SAR.

Table 12-13
Simultaneous Transmission Scenario (2.4 GHz Ant. 1 Body Back side at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Back Side	GSM 850	0.358	<0.802	<1.160
Back Side	GSM 1900	0.272	<0.802	<1.074
Back Side	UMTS 850	0.397	<0.802	<1.199
Back Side	UMTS 1900	0.555	<0.802	<1.357
Back Side	LTE Band 17	0.149	<0.802	<0.951
Back Side	LTE Band 5 (Cell)	0.320	<0.802	<1.122
Back Side	LTE Band 4 (AWS)	0.550	<0.802	<1.352
Back Side	LTE Band 2 (PCS)	0.456	<0.802	<1.258

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Table 12-14
Simultaneous Transmission Scenario (2.4 GHz Ant. 2 Body Back side at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Back Side	GSM 850	0.358	<0.946	<1.304
Back Side	GSM 1900	0.272	<0.946	<1.218
Back Side	UMTS 850	0.397	<0.946	<1.343
Back Side	UMTS 1900	0.555	<0.946	<1.501
Back Side	LTE Band 17	0.149	<0.946	<1.095
Back Side	LTE Band 5 (Cell)	0.320	<0.946	<1.266
Back Side	LTE Band 4 (AWS)	0.550	<0.946	<1.496
Back Side	LTE Band 2 (PCS)	0.456	<0.946	<1.402

Table 12-15
Simultaneous Transmission Scenario (2.4 GHz MIMO Body Back side at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Back Side	GSM 850	0.358	<0.357	<0.715
Back Side	GSM 1900	0.272	<0.357	<0.629
Back Side	UMTS 850	0.397	<0.357	<0.754
Back Side	UMTS 1900	0.555	<0.357	<0.912
Back Side	LTE Band 17	0.149	<0.357	<0.506
Back Side	LTE Band 5 (Cell)	0.320	<0.357	<0.677
Back Side	LTE Band 4 (AWS)	0.550	<0.357	<0.907
Back Side	LTE Band 2 (PCS)	0.456	<0.357	<0.813

Table 12-16
Simultaneous Transmission Scenario (5 GHz Ant.1, 2, and MIMO Body Back side at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Back Side	GSM 850	0.358	<0.386	<0.744
Back Side	GSM 1900	0.272	<0.386	<0.658
Back Side	UMTS 850	0.397	<0.386	<0.783
Back Side	UMTS 1900	0.555	<0.386	<0.941
Back Side	LTE Band 17	0.149	<0.386	<0.535
Back Side	LTE Band 5 (Cell)	0.320	<0.386	<0.706
Back Side	LTE Band 4 (AWS)	0.550	<0.386	<0.936
Back Side	LTE Band 2 (PCS)	0.456	<0.386	<0.842

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Table 12-17
Simultaneous Transmission Scenario (Bluetooth Body Back side at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
Back Side	GSM 850	0.358	<0.208	<0.566
Back Side	GSM 1900	0.272	<0.208	<0.48
Back Side	UMTS 850	0.397	<0.208	<0.605
Back Side	UMTS 1900	0.555	<0.208	<0.763
Back Side	LTE Band 17	0.149	<0.208	<0.357
Back Side	LTE Band 5 (Cell)	0.320	<0.208	<0.528
Back Side	LTE Band 4 (AWS)	0.550	<0.208	<0.758
Back Side	LTE Band 2 (PCS)	0.456	<0.208	<0.664

Note: Estimated Bluetooth LE SAR result for back was used in the above table to determine simultaneous transmission SAR test exclusion since it was more conservative then Bluetooth reported SAR.

Table 12-18
Simultaneous Transmission Scenario (2.4 GHz Ant.1, 2, and MIMO Body Bottom Edge at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Bottom Edge	GSM 850	0.320	0.400	0.720
Bottom Edge	GSM 1900	0.310	0.400	0.710
Bottom Edge	UMTS 850	0.292	0.400	0.692
Bottom Edge	UMTS 1900	0.506	0.400	0.906
Bottom Edge	LTE Band 17	0.127	0.400	0.527
Bottom Edge	LTE Band 5 (Cell)	0.234	0.400	0.634
Bottom Edge	LTE Band 4 (AWS)	0.436	0.400	0.836
Bottom Edge	LTE Band 2 (PCS)	0.567	0.400	0.967

Table 12-19
Simultaneous Transmission Scenario (5 GHz Ant.1, 2, and MIMO Body Bottom Edge at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Bottom Edge	GSM 850	0.320	0.400	0.720
Bottom Edge	GSM 1900	0.310	0.400	0.710
Bottom Edge	UMTS 850	0.292	0.400	0.692
Bottom Edge	UMTS 1900	0.506	0.400	0.906
Bottom Edge	LTE Band 17	0.127	0.400	0.527
Bottom Edge	LTE Band 5 (Cell)	0.234	0.400	0.634
Bottom Edge	LTE Band 4 (AWS)	0.436	0.400	0.836
Bottom Edge	LTE Band 2 (PCS)	0.567	0.400	0.967

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Table 12-20
Simultaneous Transmission Scenario (Bluetooth Body Bottom Edge at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
Bottom Edge	GSM 850	0.320	0.400	0.720
Bottom Edge	GSM 1900	0.310	0.400	0.710
Bottom Edge	UMTS 850	0.292	0.400	0.692
Bottom Edge	UMTS 1900	0.506	0.400	0.906
Bottom Edge	LTE Band 17	0.127	0.400	0.527
Bottom Edge	LTE Band 5 (Cell)	0.234	0.400	0.634
Bottom Edge	LTE Band 4 (AWS)	0.436	0.400	0.836
Bottom Edge	LTE Band 2 (PCS)	0.567	0.400	0.967

Table 12-21
Simultaneous Transmission Scenario (2.4 GHz Ant.1 Body Right Edge at 0.4 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Right Edge	GSM 850	0.287	<0.024	<0.311
Right Edge	GSM 1900	0.131	<0.024	<0.155
Right Edge	UMTS 850	0.222	<0.024	<0.246
Right Edge	UMTS 1900	0.093	<0.024	<0.117
Right Edge	LTE Band 17	0.104	<0.024	<0.128
Right Edge	LTE Band 5 (Cell)	0.150	<0.024	<0.174
Right Edge	LTE Band 4 (AWS)	0.630	<0.024	<0.654
Right Edge	LTE Band 2 (PCS)	0.262	<0.024	<0.286

Table 12-22
Simultaneous Transmission Scenario (2.4 GHz Ant.2 Body Right Edge at 0.4 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Right Edge	GSM 850	0.287	<0.327	<0.614
Right Edge	GSM 1900	0.131	<0.327	<0.458
Right Edge	UMTS 850	0.222	<0.327	<0.549
Right Edge	UMTS 1900	0.093	<0.327	<0.420
Right Edge	LTE Band 17	0.104	<0.327	<0.431
Right Edge	LTE Band 5 (Cell)	0.150	<0.327	<0.477
Right Edge	LTE Band 4 (AWS)	0.630	<0.327	<0.957
Right Edge	LTE Band 2 (PCS)	0.262	<0.327	<0.589

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Table 12-23
Simultaneous Transmission Scenario (2.4 GHz MIMO Body Right Edge at 0.4 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Right Edge	GSM 850	0.287	<0.112	<0.399
Right Edge	GSM 1900	0.131	<0.112	<0.243
Right Edge	UMTS 850	0.222	<0.112	<0.334
Right Edge	UMTS 1900	0.093	<0.112	<0.205
Right Edge	LTE Band 17	0.104	<0.112	<0.216
Right Edge	LTE Band 5 (Cell)	0.150	<0.112	<0.262
Right Edge	LTE Band 4 (AWS)	0.630	<0.112	<0.742
Right Edge	LTE Band 2 (PCS)	0.262	<0.112	<0.374

Table 12-24
Simultaneous Transmission Scenario (5 GHz Ant.1 Body Right Edge at 0.4 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Right Edge	GSM 850	0.287	<0.114	<0.401
Right Edge	GSM 1900	0.131	<0.114	<0.245
Right Edge	UMTS 850	0.222	<0.114	<0.336
Right Edge	UMTS 1900	0.093	<0.114	<0.207
Right Edge	LTE Band 17	0.104	<0.114	<0.218
Right Edge	LTE Band 5 (Cell)	0.150	<0.114	<0.264
Right Edge	LTE Band 4 (AWS)	0.630	<0.114	<0.744
Right Edge	LTE Band 2 (PCS)	0.262	<0.114	<0.376

Table 12-25
Simultaneous Transmission Scenario (5 GHz Ant.2 and MIMO Body Right Edge at 0.4 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
Right Edge	GSM 850	0.287	<0.386	<0.673
Right Edge	GSM 1900	0.131	<0.386	<0.517
Right Edge	UMTS 850	0.222	<0.386	<0.608
Right Edge	UMTS 1900	0.093	<0.386	<0.479
Right Edge	LTE Band 17	0.104	<0.386	<0.490
Right Edge	LTE Band 5 (Cell)	0.150	<0.386	<0.536
Right Edge	LTE Band 4 (AWS)	0.630	<0.386	<1.016
Right Edge	LTE Band 2 (PCS)	0.262	<0.386	<0.648

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Table 12-26
Simultaneous Transmission Scenario (Bluetooth Body Right Edge at 0.4 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
Right Edge	GSM 850	0.287	<0.061	<0.348
Right Edge	GSM 1900	0.131	<0.061	<0.192
Right Edge	UMTS 850	0.222	<0.061	<0.283
Right Edge	UMTS 1900	0.093	<0.061	<0.154
Right Edge	LTE Band 17	0.104	<0.061	<0.165
Right Edge	LTE Band 5 (Cell)	0.150	<0.061	<0.211
Right Edge	LTE Band 4 (AWS)	0.630	<0.061	<0.691
Right Edge	LTE Band 2 (PCS)	0.262	<0.061	<0.323

Note: Estimated Bluetooth LE SAR result for right edge was used in the above table to determine simultaneous transmission SAR test exclusion since it was more conservative than Bluetooth reported SAR.

Notes:

1. For SAR summations for body (back side at 15mm and right edge at 4mm), WLAN values for 0.0 mm were used since the 0.0 mm test distance for WLAN SAR values were more conservative. "<" denotes that the 0.0 mm WLAN SAR values were used for summation purposes.
2. Estimated Bluetooth LE SAR result for back, top, and right edge was used to determine simultaneous transmission SAR test exclusion because estimated Bluetooth LE SAR was more conservative than measured Bluetooth SAR.
3. For SAR summations for body bottom edge 10 mm, estimated WLAN and Bluetooth SAR values of 0.4 W/kg was used to determine simultaneous transmission SAR exclusion, for configurations excluded per FCC KDB Publication 447498 D01v05, since the antenna separation distance is greater than 50mm.
4. 5 GHz WLAN was excluded per FCC KDB 447498 D01v05 (See section 1.6). Therefore, estimated 5 GHz SAR values in table 12-1 were used for summation purposes.

12.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results 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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13 SAR MEASUREMENT VARIABILITY

13.1 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 13-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Antenna #	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)	
2450	2437	6	IEEE 802.11b	Antenna 2	DSSS	1	back	0 mm	0.914	0.857	1.07	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram							

13.2 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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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Gigatronics	80701A	(0.05-18GHz) Power Sensor	10/30/2013	Annual	10/30/2014	1833460
Agilent	E8257D	(250kHz-20GHz) Signal Generator	4/15/2014	Annual	4/15/2015	MY45470194
Agilent	8753E	(30kHz-6GHz) Network Analyzer	7/23/2013	Annual	7/23/2014	US3790350
Agilent	8648D	(9kHz-4GHz) Signal Generator	4/15/2014	Annual	4/15/2015	3629U00687
SPEAG	D1750V2	1750 MHz SAR Dipole	4/10/2014	Annual	4/10/2015	1051
SPEAG	D1900V2	1900 MHz SAR Dipole	7/22/2013	Annual	7/22/2014	5d149
SPEAG	D2450V2	2450 MHz SAR Dipole	1/21/2014	Annual	1/21/2015	797
SPEAG	D750V3	750 MHz Dipole	1/20/2014	Annual	1/20/2015	1003
SPEAG	D835V2	835 MHz SAR Dipole	4/7/2014	Annual	4/7/2015	4d119
SPEAG	D835V2	835 MHz SAR Dipole	1/22/2014	Annual	1/22/2015	4d132
Rohde & Schwarz	CMU200	Base Station Simulator	9/23/2013	Annual	9/23/2014	109892
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/21/2013	Annual	8/21/2014	1322
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/18/2013	Annual	11/18/2014	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/19/2013	Annual	11/19/2014	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/19/2013	Annual	11/19/2014	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/26/2014	Annual	2/26/2015	665
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/22/2014	Annual	1/22/2015	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/17/2014	Annual	3/17/2015	1334
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/13/2013	Annual	11/13/2014	1091
Agilent	E4438C	ESG Vector Signal Generator	4/25/2014	Annual	4/25/2015	MY42082385
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/18/2013	Annual	8/18/2014	1009
Anritsu	MA2481A	Power Sensor	10/30/2013	Annual	10/30/2014	5605
Anritsu	MA2411B	Pulse Power Sensor	3/25/2014	Annual	3/25/2015	1207470
Anritsu	MT8820C	Radio Communication Analyzer	6/28/2013	Annual	6/28/2014	6201240328
Tektronix	RSA6114A	Real Time Spectrum Analyzer	4/16/2014	Annual	4/16/2015	8010177
SPEAG	ES3DV2	SAR Probe	8/22/2013	Annual	8/22/2014	3022
SPEAG	EX3DV4	SAR Probe	10/23/2013	Annual	10/23/2014	3914
SPEAG	ES3DV3	SAR Probe	11/20/2013	Annual	11/20/2014	3287
SPEAG	ES3DV3	SAR Probe	11/22/2013	Annual	11/22/2014	3333
SPEAG	ES3DV3	SAR Probe	11/25/2013	Annual	11/25/2014	3332
SPEAG	EX3DV4	SAR Probe	1/29/2014	Annual	1/29/2015	3589
SPEAG	ES3DV3	SAR Probe	2/25/2014	Annual	2/25/2015	3258
SPEAG	ES3DV3	SAR Probe	3/19/2014	Annual	3/19/2015	3209
Rohde & Schwarz	SME06	Signal Generator	10/30/2013	Annual	10/30/2014	832026
Rohde & Schwarz	NRVS	Single Channel Power Meter	10/31/2013	Annual	10/31/2014	835360/0079
Agilent	8753ES	S-Parameter Network Analyzer	10/29/2013	Annual	10/29/2014	US39170122
Gigatronics	8651A	Universal Power Meter	10/30/2013	Annual	10/30/2014	8650319
Anritsu	MA24106A	USB Power Sensor	1/3/2014	Annual	1/3/2015	1344557
Mitutoyo	CD-6"CSX	Digital Caliper	5/8/2014	Biennial	5/8/2016	13264165
Fisher Scientific	15-077-960	Digital Thermometer	12/4/2013	Biennial	12/4/2015	130764558
Rohde & Schwarz	NRVD	Dual Channel Power Meter	10/12/2012	Biennial	10/12/2014	101695
Control Company	61220-416	Long-Stem Thermometer	4/29/2014	Biennial	4/29/2016	111331323
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	10/4/2013	Biennial	10/4/2015	103962
Rohde & Schwarz	NRV-232	Peak Power Sensor	10/12/2012	Biennial	10/12/2014	836019/013
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
Control Company	36934-158	Wall-Mounted Thermometer	4/29/2014	Biennial	4/29/2016	122014488
Agilent	E5515C	Wireless Communications Test Set	10/18/2012	Biennial	10/18/2014	GB43193563
Agilent	N9020A	MXA Signal Analyzer	10/29/2013	Annual	10/29/2014	US46470561
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	CBT	N/A	CBT	3051A00187
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433978
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
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
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
COMTECH	AR85729-5/5759B	Solid State Amplifier	CBT	N/A	CBT	M3W1A00-1002
Agilent	85047A	S-Parameter Test Set	N/A	N/A	N/A	2904A00579

Note: 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.

Each equipment item was used solely within its respective calibration period.

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15 MEASUREMENT UNCERTAINTIES

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

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

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16 CONCLUSION

16.1 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: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-5

Communication System: UID 0, GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: 835 Head Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.944 \text{ S/m}$; $\epsilon_r = 43.046$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 05-14-2014; Ambient Temp: 22.0°C; Tissue Temp: 21.8°C

Probe: ES3DV3 - SN3209; ConvF(6.23, 6.23, 6.23); Calibrated: 3/19/2014;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 3/17/2014

Phantom: SAM front; Type: QD000P40CD; Serial: TP:1759

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

Mode: GSM 850, Right Head, Tilt, Mid.ch

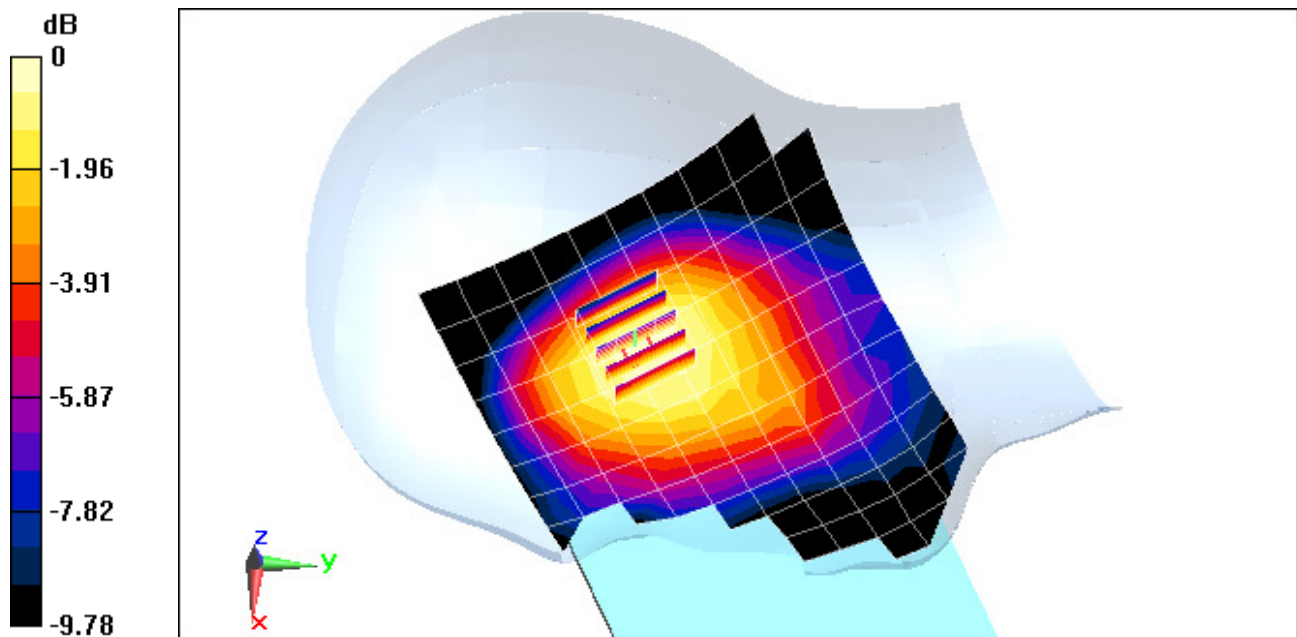
Area Scan (11x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Reference Value = 7.331 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.0620 W/kg

SAR(1 g) = 0.048 W/kg



0 dB = 0.0508 W/kg = -12.94 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-5

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

Medium: 835 Head Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.944 \text{ S/m}$; $\epsilon_r = 43.046$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 05-14-2014; Ambient Temp: 22.0°C; Tissue Temp: 21.8°C

Probe: ES3DV3 - SN3209; ConvF(6.23, 6.23, 6.23); Calibrated: 3/19/2014;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 3/17/2014

Phantom: SAM front; Type: QD000P40CD; Serial: TP:1759

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

Mode: UMTS 850, Right Head, Tilt, Mid.ch

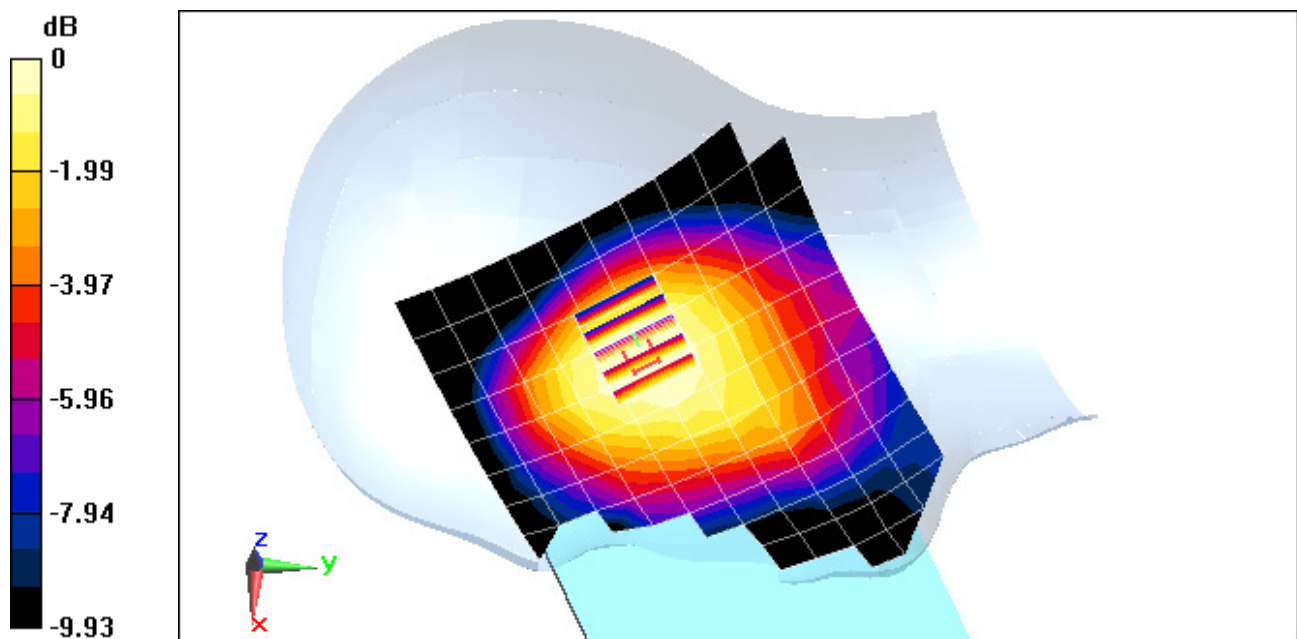
Area Scan (11x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Reference Value = 6.377 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.0450 W/kg

SAR(1 g) = 0.036 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-5

Communication System: UID 0, GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: 1900 Head Medium parameters used:

$$f = 1880 \text{ MHz}; \sigma = 1.415 \text{ S/m}; \epsilon_r = 39.777; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Right Section

Test Date: 04-30-2014; Ambient Temp: 24.5°C; Tissue Temp: 23.1°C

Probe: ES3DV3 - SN3258; ConvF(5.04, 5.04, 5.04); Calibrated: 2/25/2014;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

Phantom: SAM Front; Type: SAM; Serial: 1686

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

Mode: GSM 1900, Right Head, Cheek, Mid.ch

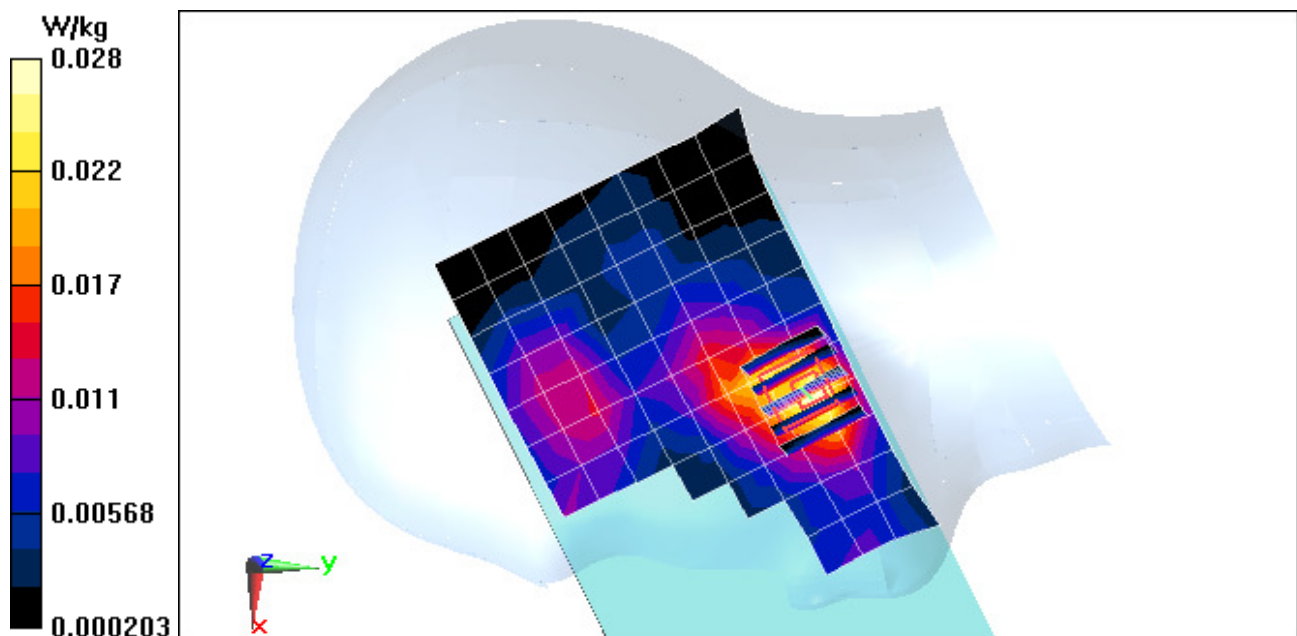
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 4.411 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.0360 W/kg

SAR(1 g) = 0.026 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-5

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

Medium: 1900 Head Medium parameters used:

$$f = 1880 \text{ MHz}; \sigma = 1.415 \text{ S/m}; \epsilon_r = 39.777; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Right Section

Test Date: 04-30-2014; Ambient Temp: 24.5°C; Tissue Temp: 23.1°C

Probe: ES3DV3 - SN3258; ConvF(5.04, 5.04, 5.04); Calibrated: 2/25/2014;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

Phantom: SAM Front; Type: SAM; Serial: 1686

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

Mode: UMTS 1900, Right Head, Tilt, Mid.ch

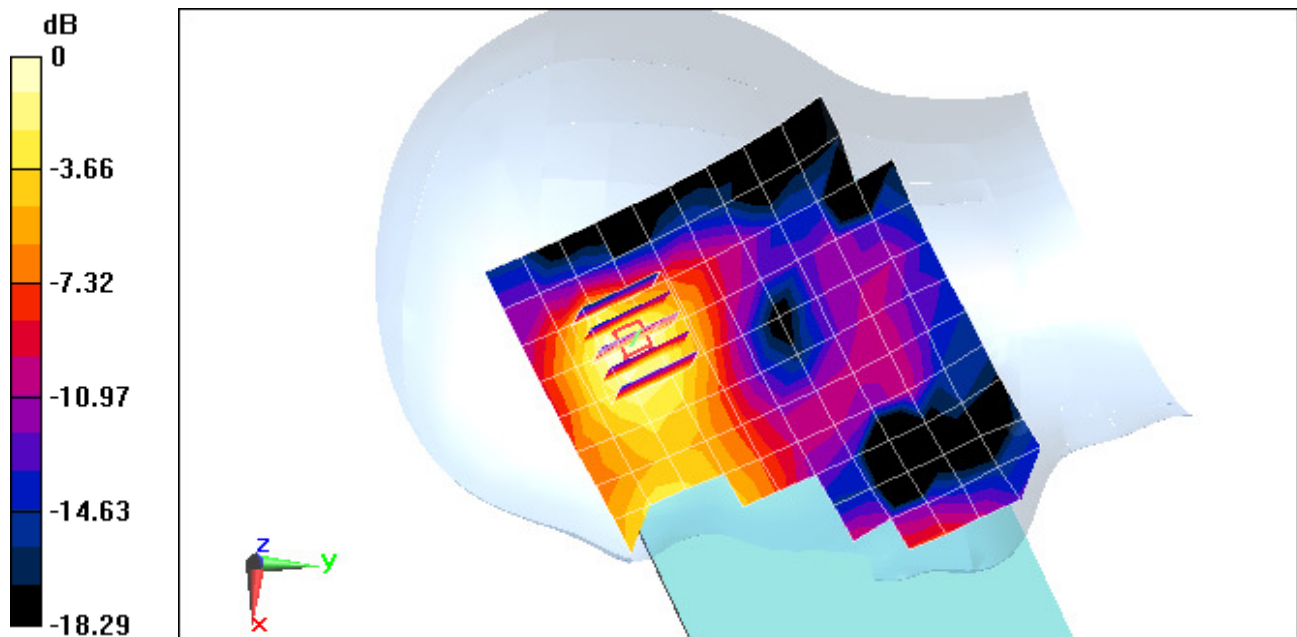
Area Scan (11x15x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 4.873 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.0470 W/kg

SAR(1 g) = 0.029 W/kg



0 dB = 0.0321 W/kg = -14.93 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-5

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

Medium: 740 Head Medium parameters used:

$$f = 710 \text{ MHz}; \sigma = 0.895 \text{ S/m}; \epsilon_r = 43.314; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Left Section

Test Date: 05-05-2014; Ambient Temp: 24.1°C; Tissue Temp: 22.8°C

Probe: ES3DV3 - SN3287; ConvF(6.52, 6.52, 6.52); Calibrated: 11/20/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 11/19/2013

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

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

**Mode: LTE Band 17, Left Head, Cheek, Mid.ch,
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset**

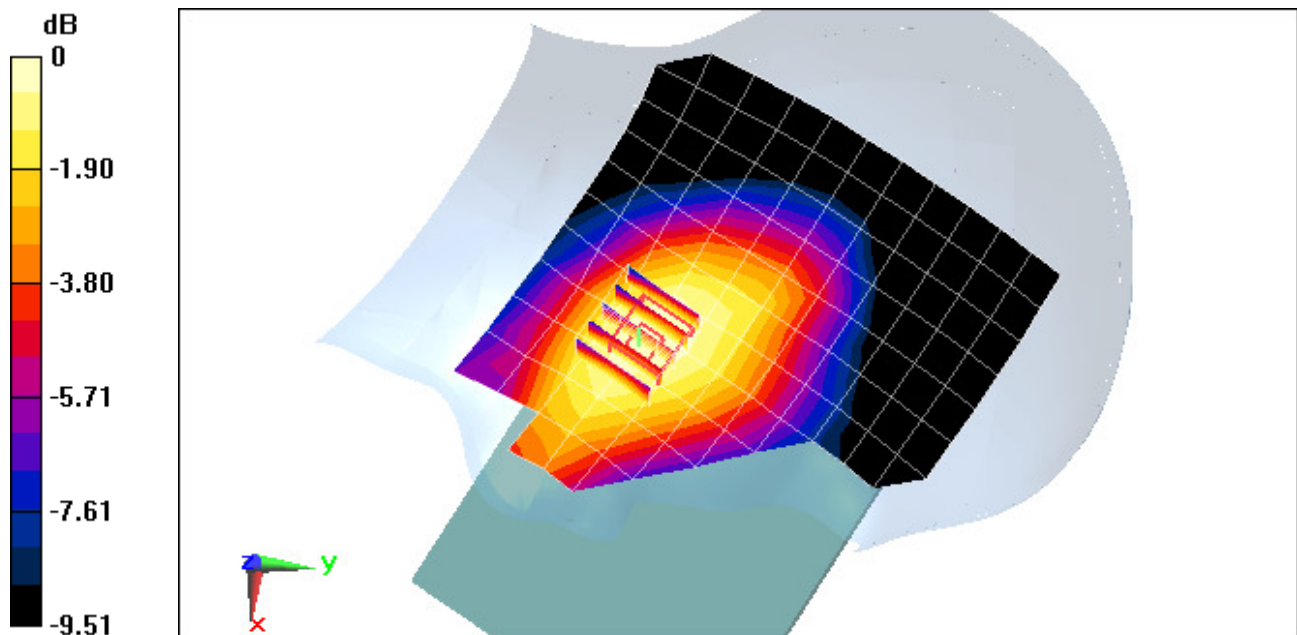
Area Scan (12x14x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 5.653 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0300 W/kg

SAR(1 g) = 0.026 W/kg



0 dB = 0.0269 W/kg = -15.70 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-5

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

Medium: 835 Head Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.944 \text{ S/m}$; $\epsilon_r = 43.047$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 05-14-2014; Ambient Temp: 22.0°C; Tissue Temp: 21.8°C

Probe: ES3DV3 - SN3209; ConvF(6.23, 6.23, 6.23); Calibrated: 3/19/2014;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 3/17/2014

Phantom: SAM front; Type: QD000P40CD; Serial: TP:1759

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

**Mode: LTE Band 5 (Cell), Left Head, Tilt, Mid.ch,
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset**

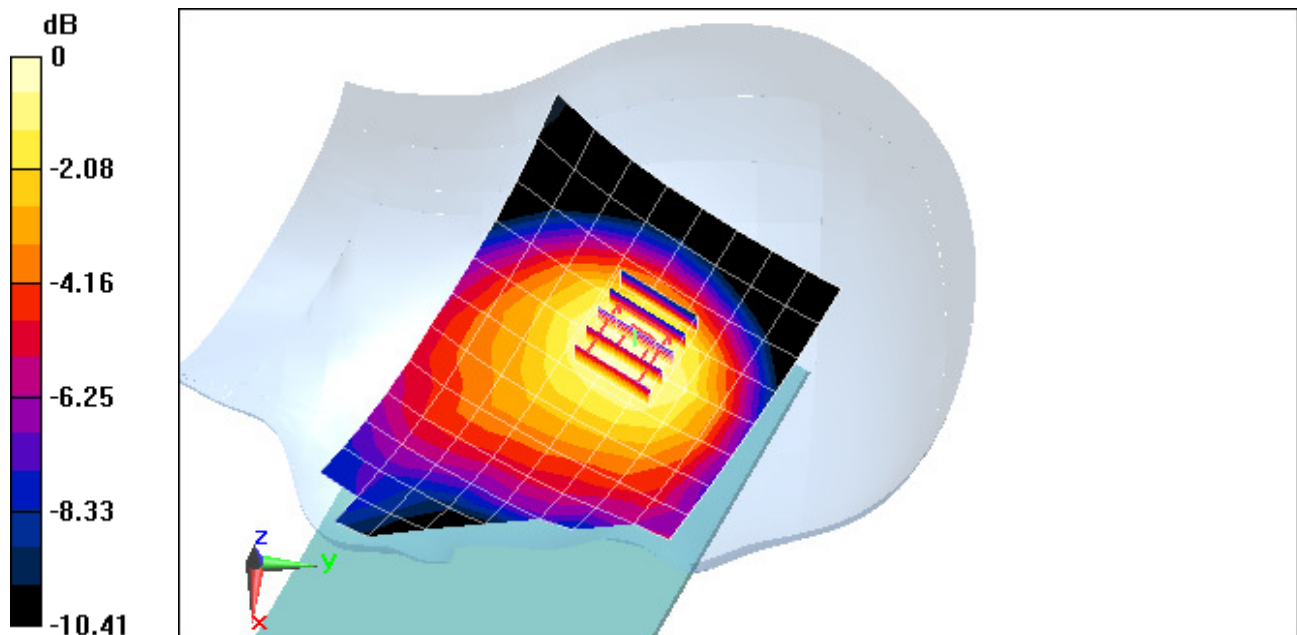
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 6.968 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0510 W/kg

SAR(1 g) = 0.038 W/kg



0 dB = 0.0407 W/kg = -13.90 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-5

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

Medium: 1750 Head Medium parameters used (interpolated):

$f = 1732.5 \text{ MHz}$; $\sigma = 1.394 \text{ S/m}$; $\epsilon_r = 40.605$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 05-13-2014; Ambient Temp: 23.0°C; Tissue Temp: 22.4°C

Probe: ES3DV3 - SN3258; ConvF(5.19, 5.19, 5.19); Calibrated: 2/25/2014;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

Phantom: SAM Front; Type: SAM; Serial: 1686

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

**Mode: LTE Band 4 (AWS), Right Head, Cheek, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

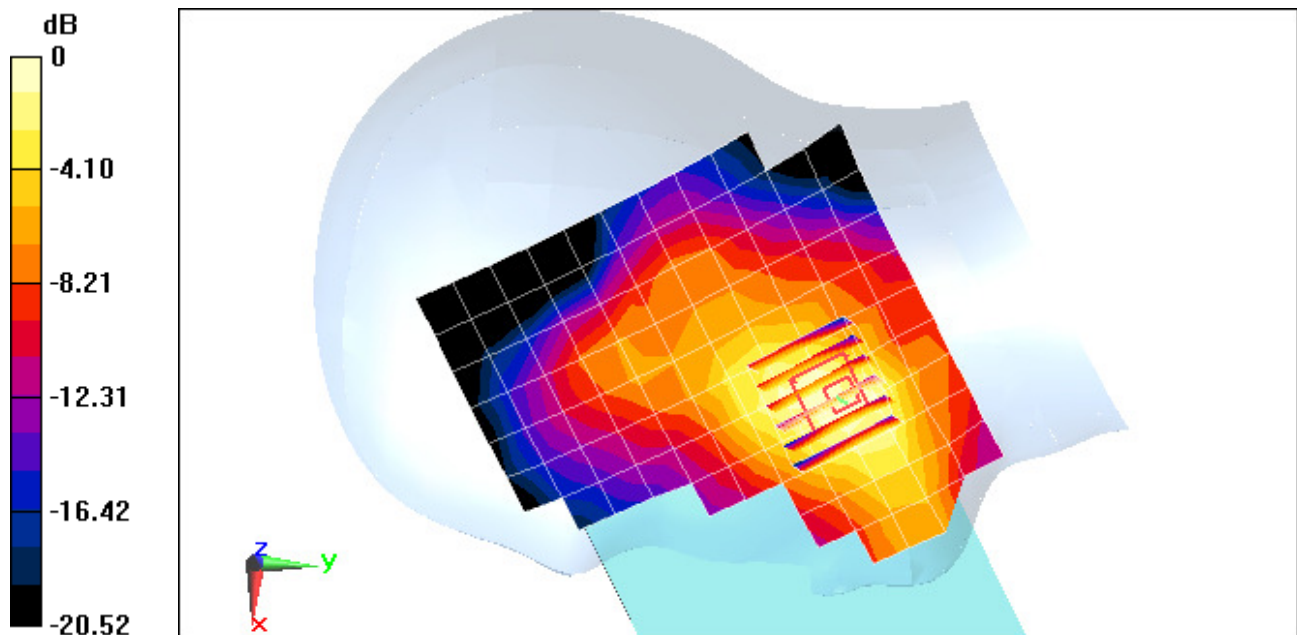
Area Scan (12x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 11.374 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.207 W/kg

SAR(1 g) = 0.158 W/kg



0 dB = 0.166 W/kg = -7.80 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-5

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

Medium: 1900 Head Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.436 \text{ S/m}$; $\epsilon_r = 39.719$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 04-30-2014; Ambient Temp: 24.5°C; Tissue Temp: 23.1°C

Probe: ES3DV3 - SN3258; ConvF(5.04, 5.04, 5.04); Calibrated: 2/25/2014;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

Phantom: SAM Front; Type: SAM; Serial: 1686

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

**Mode: LTE Band 2 (PCS), Right Head, Cheek, High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

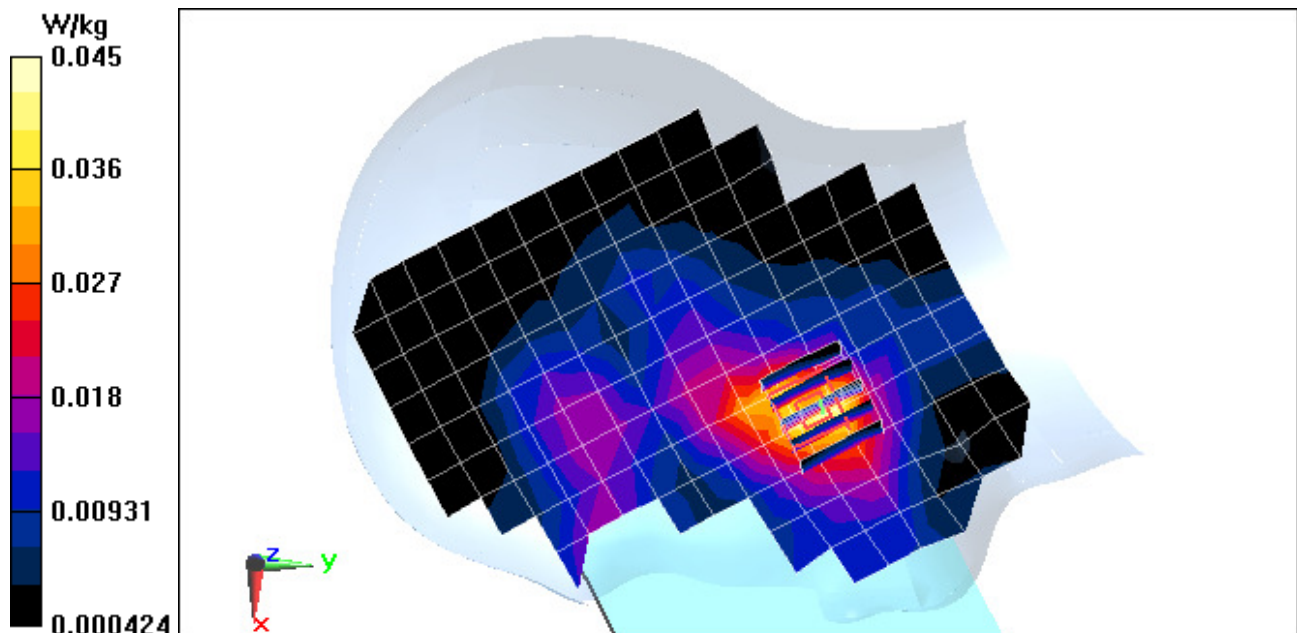
Area Scan (15x20x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 5.621 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0580 W/kg

SAR(1 g) = 0.041 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-2

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

Medium: 2450 Head Medium parameters used (interpolated):

$f = 2437 \text{ MHz}$; $\sigma = 1.803 \text{ S/m}$; $\epsilon_r = 38.534$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 05-05-2014; Ambient Temp: 23.3°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN3589; ConvF(6.45, 6.45, 6.45); Calibrated: 1/29/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 1/22/2014

Phantom: SAM; Type: QD000P40CD; Serial: TP:1758

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

Mode: IEEE 802.11b, Ant.1, Left Head, Tilt, Ch 06, 1 Mbps

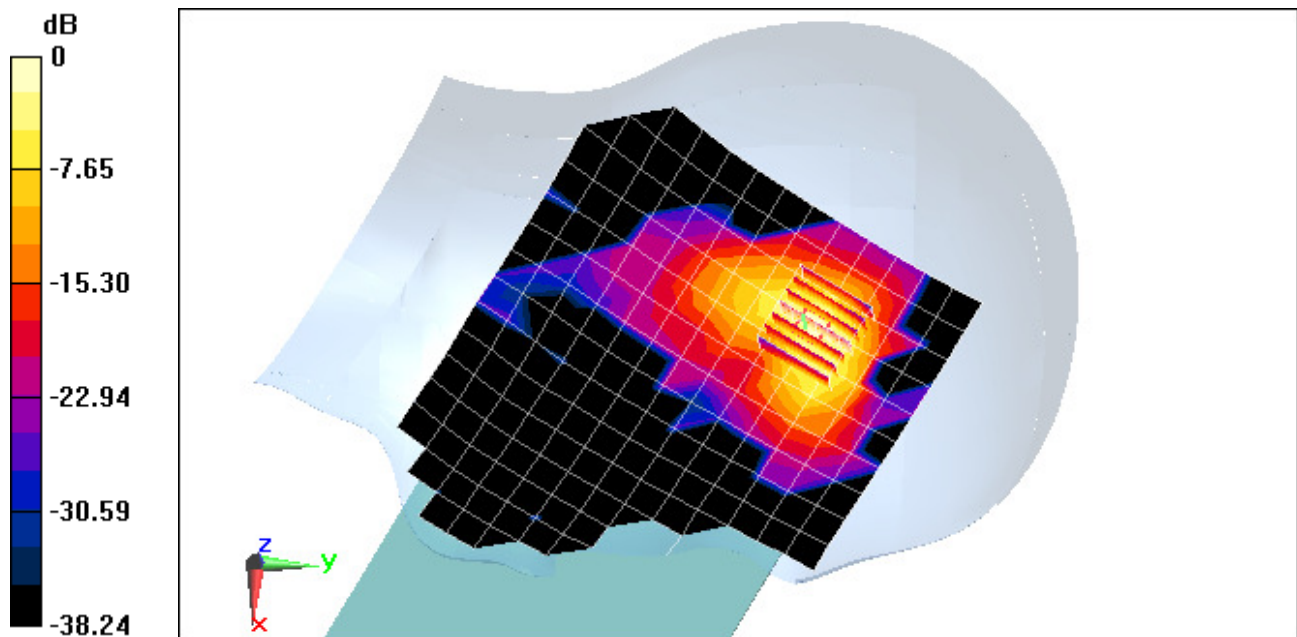
Area Scan (14x21x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 11.103 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.201 W/kg



0 dB = 0.270 W/kg = -5.69 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-1

Communication System: UID 0, GSM GPRS; 3 Tx slots; Frequency: 836.6 MHz; Duty Cycle: 1:2.76

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 1.014 \text{ S/m}$; $\epsilon_r = 53.797$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 05-07-2014; Ambient Temp: 24.1°C; Tissue Temp: 22.7°C

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

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

Mode: GPRS 850, Body SAR, Back side, Mid.ch, 3 Tx Slots

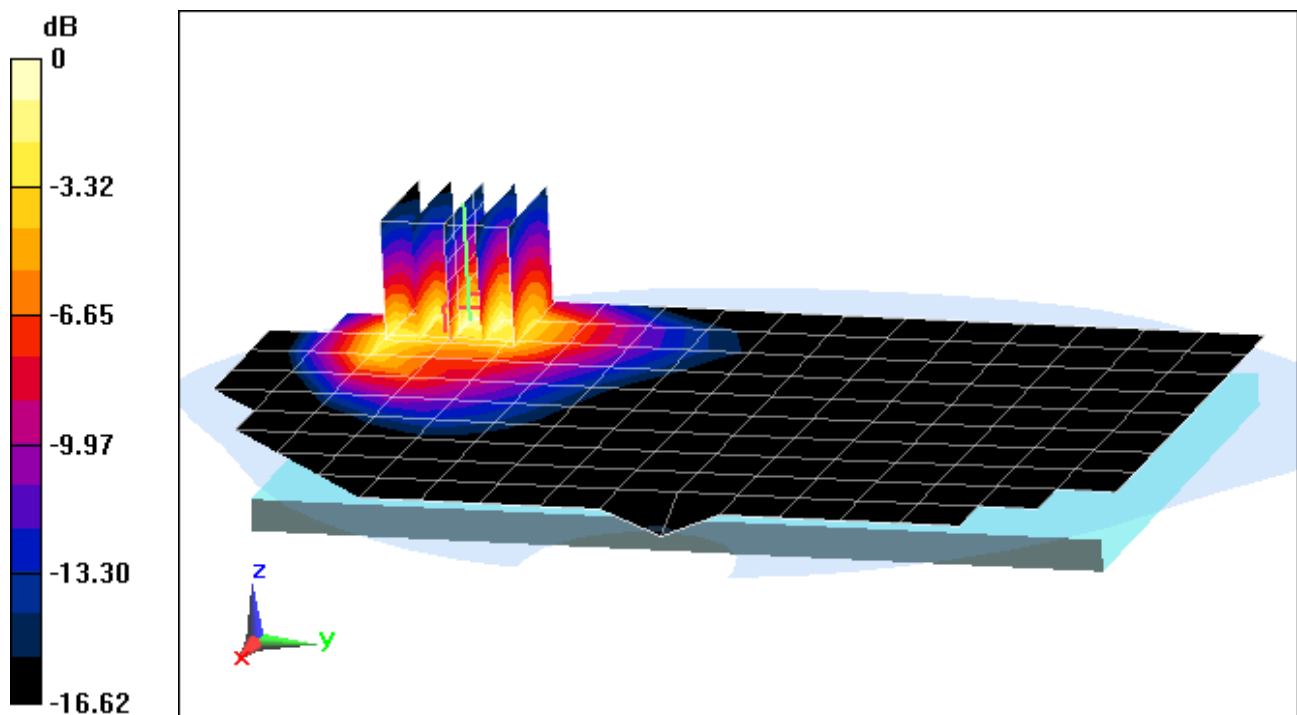
Area Scan (11x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 18.464 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.359 W/kg



0 dB = 0.386 W/kg = -4.13 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-1

Communication System: UID 0, GSM GPRS; 3 Tx slots; Frequency: 1880 MHz; Duty Cycle: 1:2.76

Medium: 1900 Body Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.517 \text{ S/m}$; $\epsilon_r = 52.708$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 05-14-2014; Ambient Temp: 24.0°C; Tissue Temp: 24.5°C

Probe: ES3DV2 - SN3022; ConvF(4.49, 4.49, 4.49); Calibrated: 8/22/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

Mode: GPRS 1900, Body SAR, Back side, Mid.ch, 3 Tx Slots

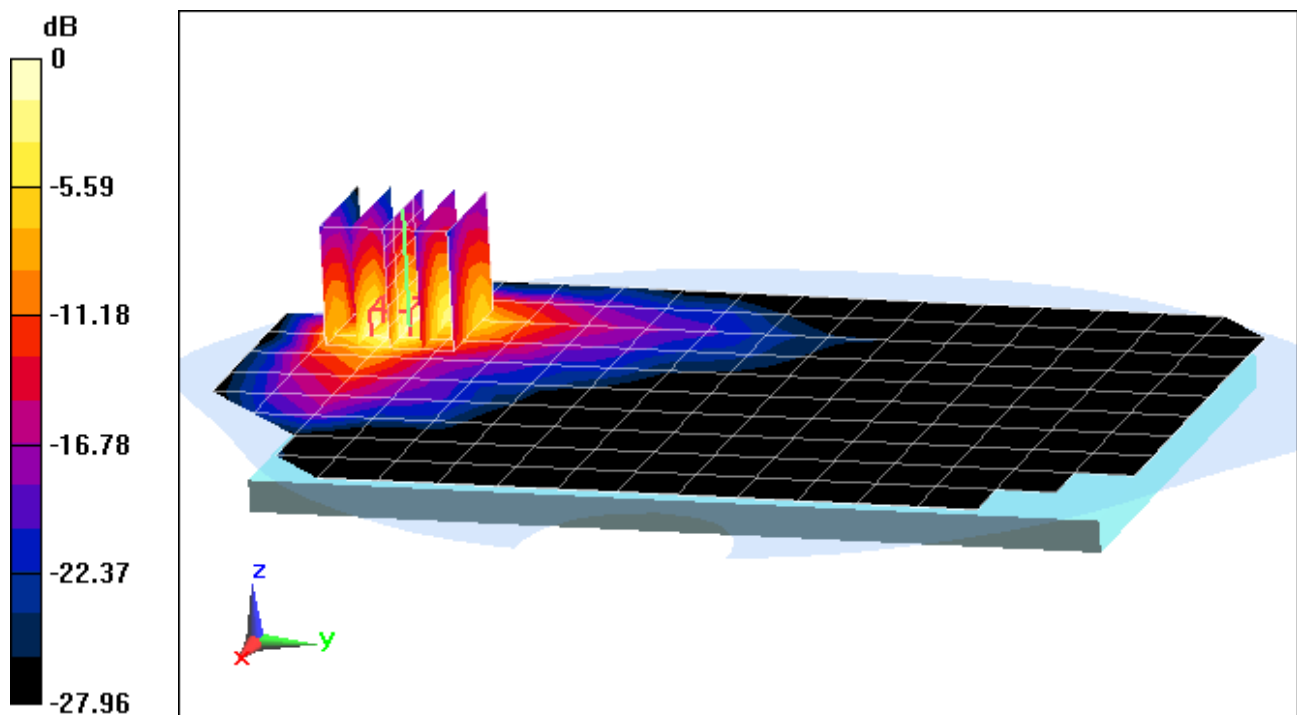
Area Scan (11x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 13.592 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.339 W/kg



0 dB = 0.407 W/kg = -3.90 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-2

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

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 1.014 \text{ S/m}$; $\epsilon_r = 53.797$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 05-07-2014; Ambient Temp: 24.1°C; Tissue Temp: 22.7°C

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

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

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

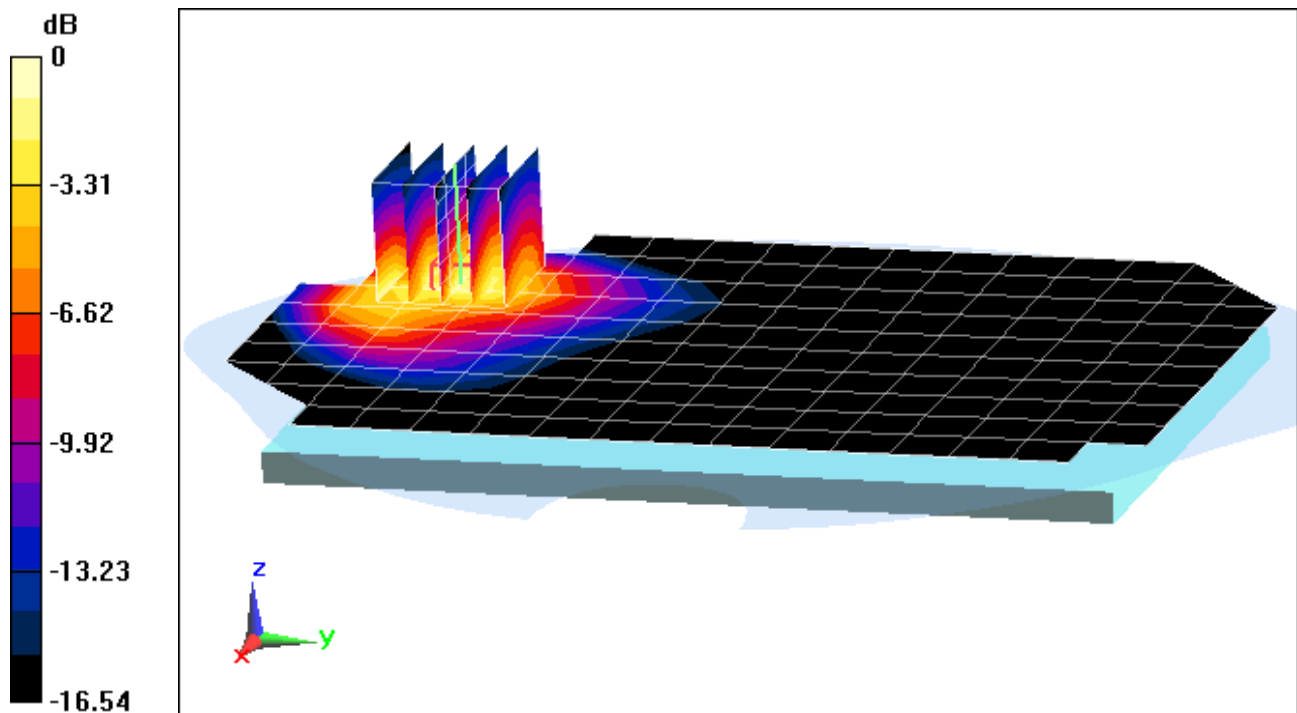
Area Scan (11x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 15.666 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.915 W/kg

SAR(1 g) = 0.444 W/kg



0 dB = 0.517 W/kg = -2.87 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-2

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

Medium: 1900 Body Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.517 \text{ S/m}$; $\epsilon_r = 52.708$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 05-14-2014; Ambient Temp: 24.0°C; Tissue Temp: 24.5°C

Probe: ES3DV2 - SN3022; ConvF(4.49, 4.49, 4.49); Calibrated: 8/22/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

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

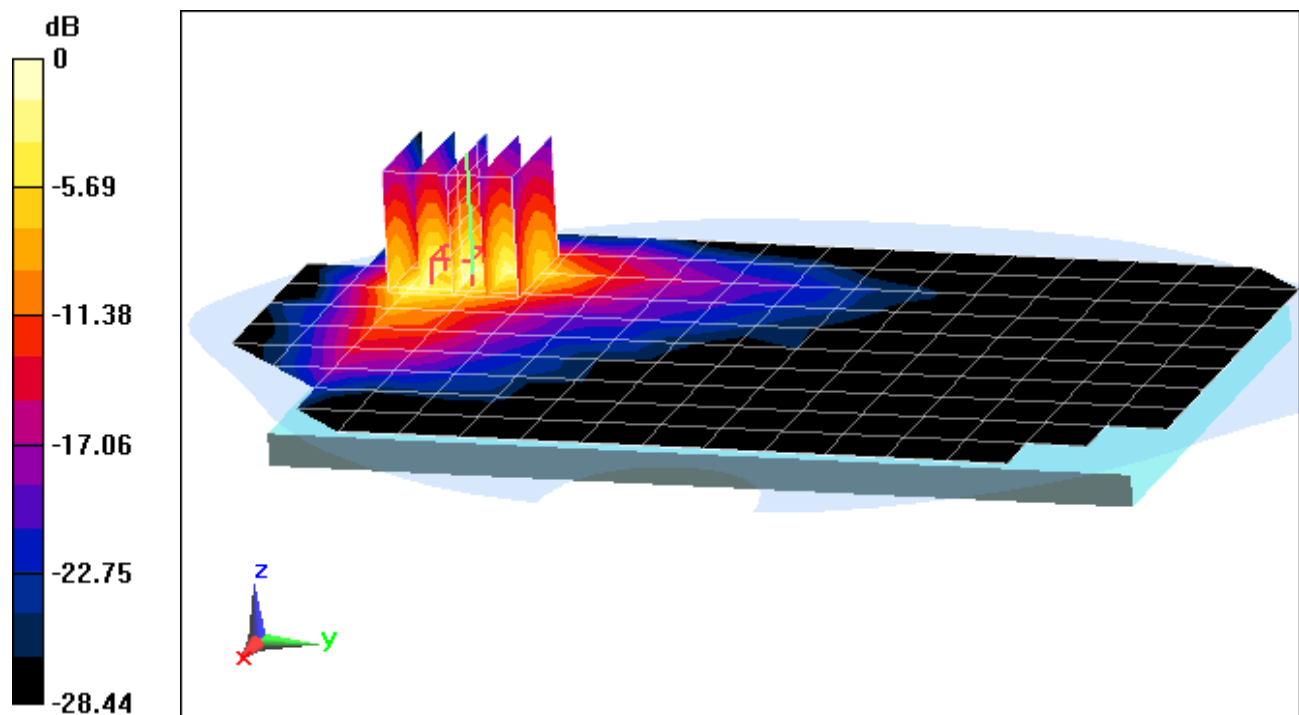
Area Scan (11x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 18.024 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.570 W/kg



0 dB = 0.659 W/kg = -1.81 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-2

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

Medium: 750 Body Medium parameters used:

$f = 710 \text{ MHz}$; $\sigma = 0.944 \text{ S/m}$; $\epsilon_r = 55.251$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 05-06-2014; Ambient Temp: 23.9°C; Tissue Temp: 22.7°C

Probe: ES3DV3 - SN3333; ConvF(6.11, 6.11, 6.11); Calibrated: 11/22/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 11/19/2013

Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1229

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

**Mode: LTE Band 17, Body SAR, Back Side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

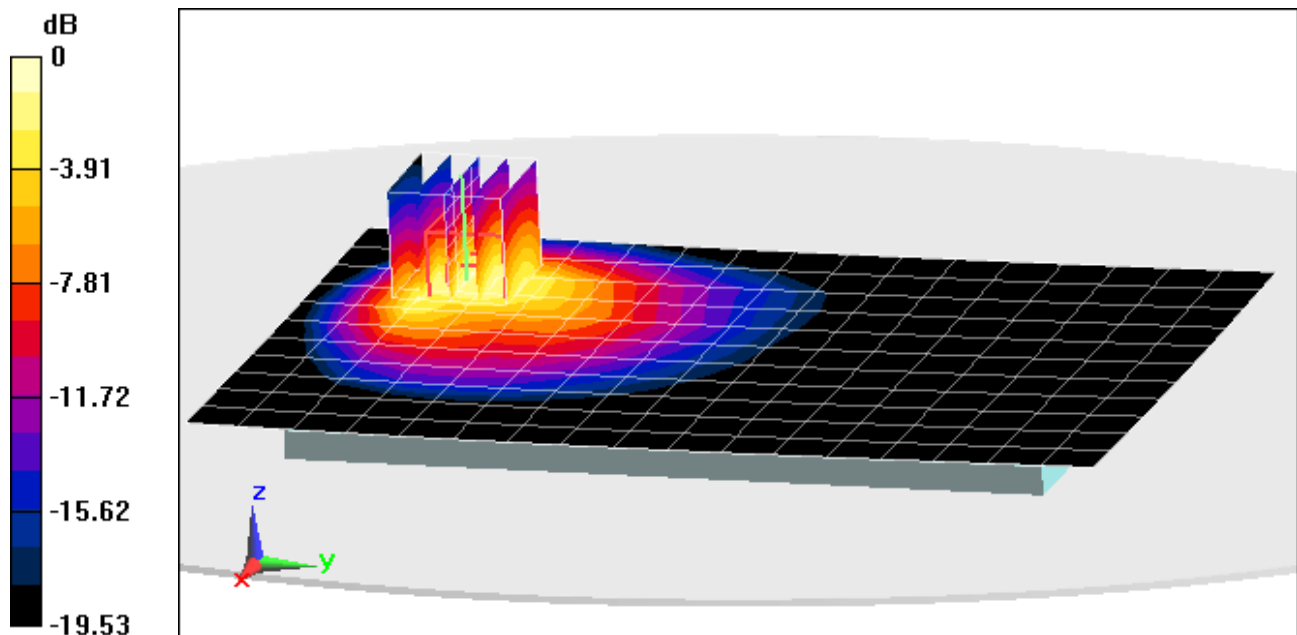
Area Scan (12x18x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 19.282 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.382 W/kg



0 dB = 0.418 W/kg = -3.79 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-5

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

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 1.017 \text{ S/m}$; $\epsilon_r = 54.528$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 05-01-2014; Ambient Temp: 24.4°C; Tissue Temp: 24.1°C

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

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

**Mode: LTE Band 5 (Cell.), Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

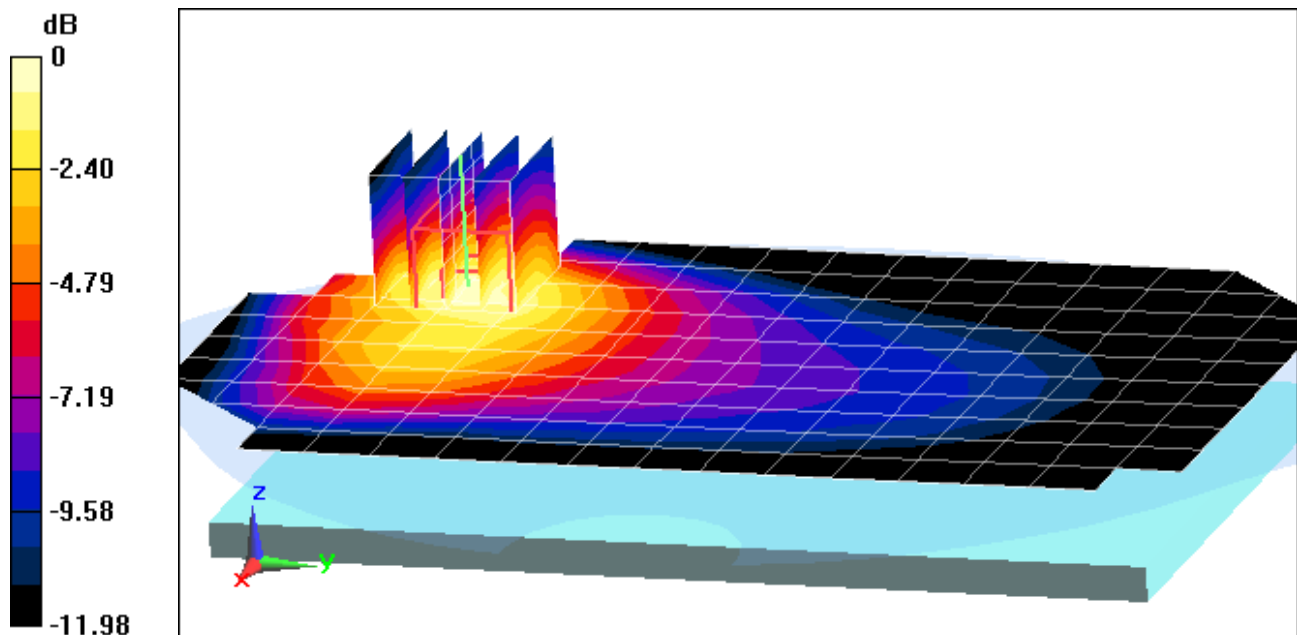
Area Scan (11x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 18.308 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.453 W/kg

SAR(1 g) = 0.307 W/kg



0 dB = 0.330 W/kg = -4.81 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-5

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

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1732.5 \text{ MHz}$; $\sigma = 1.454 \text{ S/m}$; $\epsilon_r = 52.663$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.4 cm

Test Date: 05-14-2014; Ambient Temp: 21.5°C; Tissue Temp: 23.1°C

Probe: ES3DV3 - SN3332; ConvF(4.93, 4.93, 4.93); Calibrated: 11/25/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

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

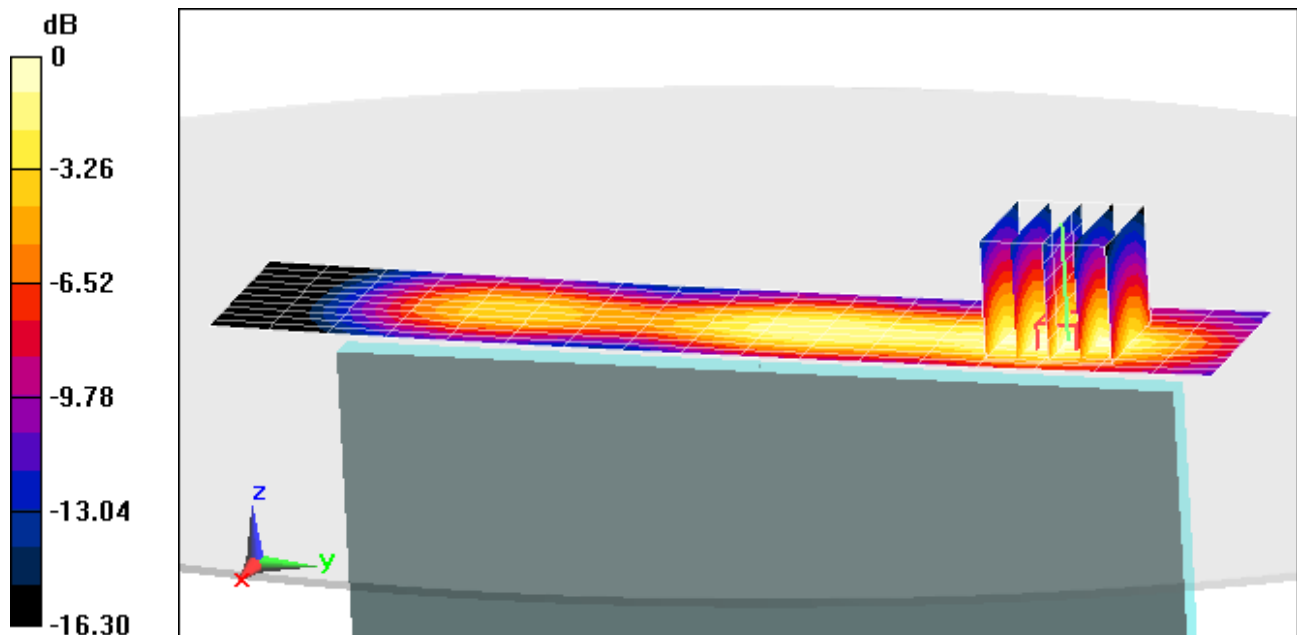
Area Scan (11x18x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 22.601 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.630 W/kg



0 dB = 0.706 W/kg = -1.51 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-5

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

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.515 \text{ S/m}$; $\epsilon_r = 53.225$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 04-30-2014; Ambient Temp: 23.1°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN3914; ConvF(7.51, 7.51, 7.51); Calibrated: 10/23/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 11/19/2013

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

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

**Mode: LTE Band 2 (PCS), Body SAR, Bottom Edge, High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

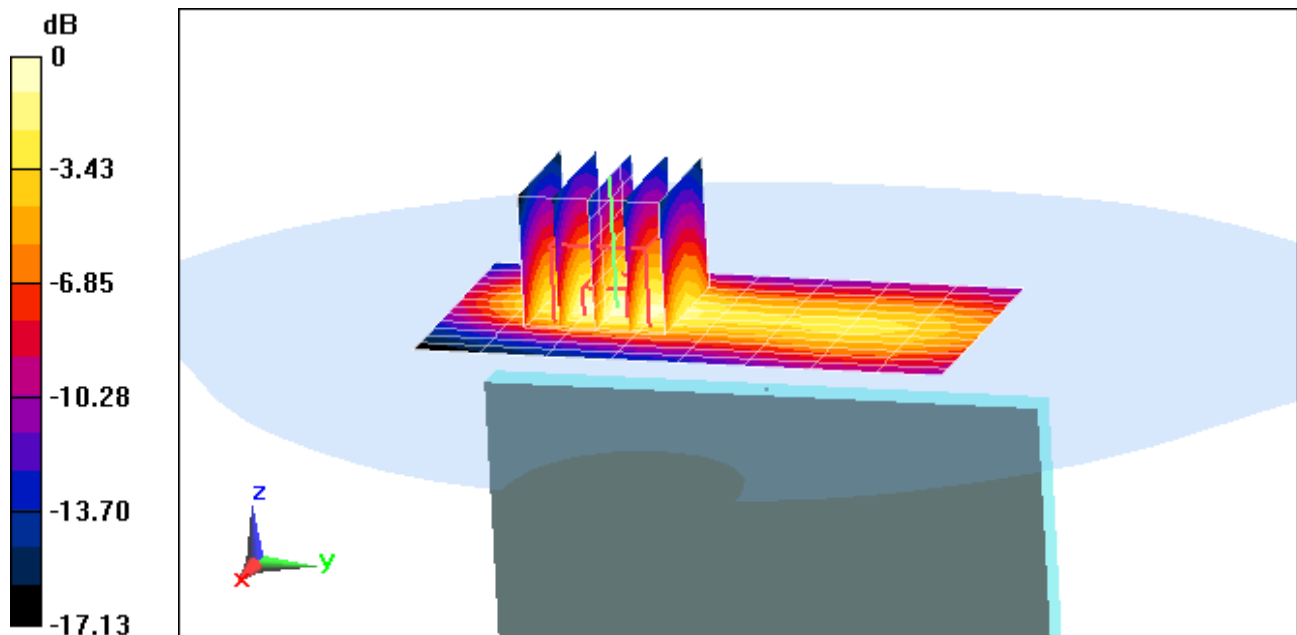
Area Scan (13x9x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 19.963 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.903 W/kg

SAR(1 g) = 0.538 W/kg



0 dB = 0.602 W/kg = -2.20 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-2

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

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2437 \text{ MHz}$; $\sigma = 2.026 \text{ S/m}$; $\epsilon_r = 51.18$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 05-05-2014; Ambient Temp: 24.0°C; Tissue Temp: 23.1°C

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

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

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

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

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

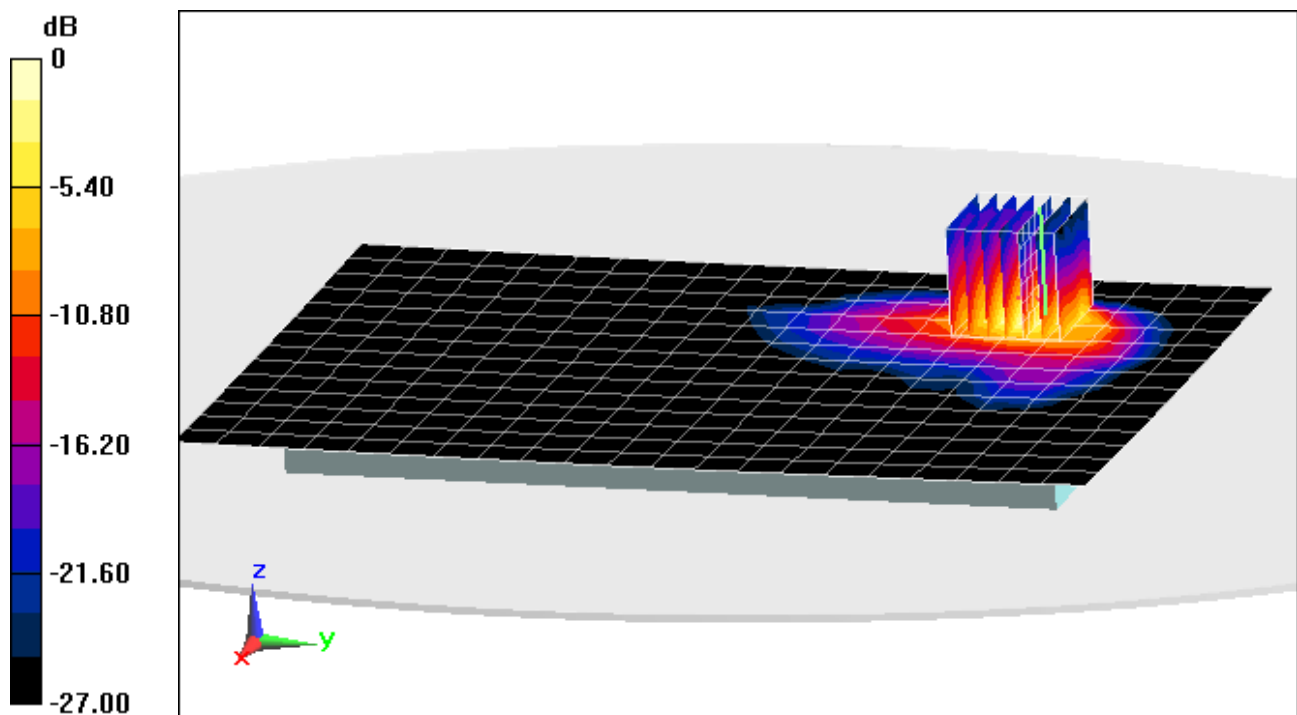
Area Scan (15x22x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 21.498 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.02 W/kg

SAR(1 g) = 0.914 W/kg



0 dB = 1.36 W/kg = 1.34 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT705M; Type: Portable Tablet; Serial: 30APR-2

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

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2441 \text{ MHz}$; $\sigma = 1.948 \text{ S/m}$; $\epsilon_r = 51.591$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 05-08-2014; Ambient Temp: 24.3°C; Tissue Temp: 23.4°C

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

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

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

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

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

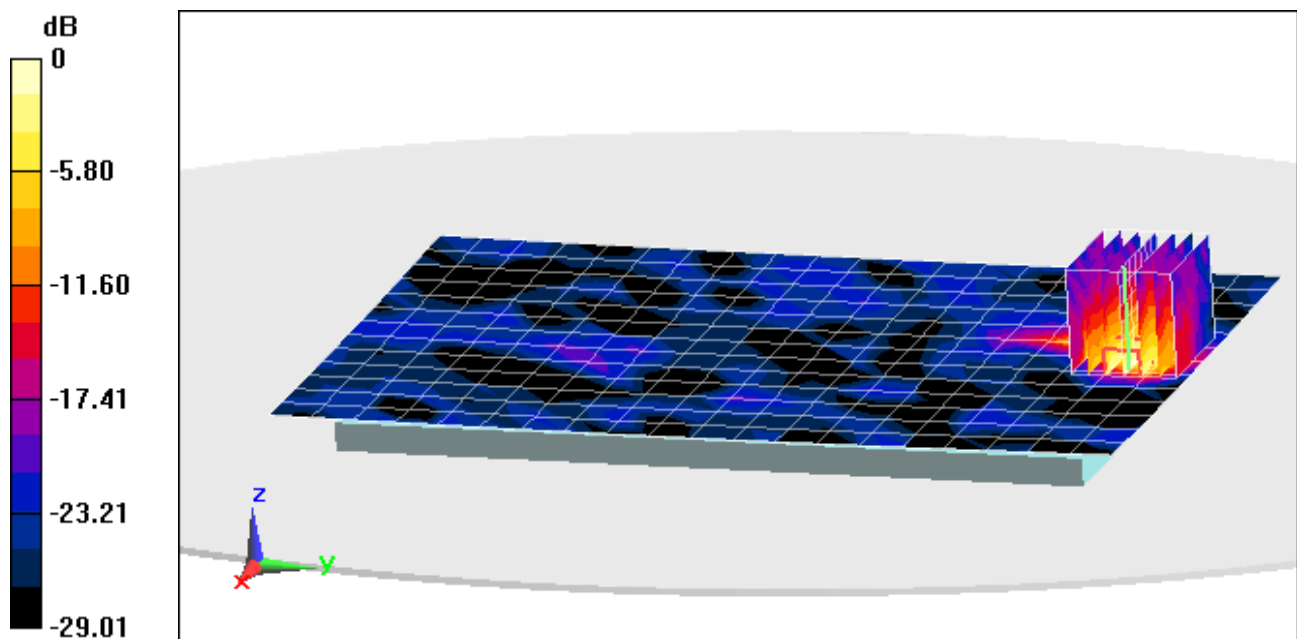
Area Scan (14x21x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 4.472 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.360 W/kg

SAR(1 g) = 0.124 W/kg



0 dB = 0.181 W/kg = -7.42 dBW/kg

APPENDIX B: SYSTEM VERIFICATION

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003

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

Medium: 740 Head Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 0.931 \text{ S/m}$; $\epsilon_r = 42.768$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 05-05-2014; Ambient Temp: 24.1°C; Tissue Temp: 22.8°C

Probe: ES3DV3 - SN3287; ConvF(6.52, 6.52, 6.52); Calibrated: 11/20/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 11/19/2013

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

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

750 MHz System Verification

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

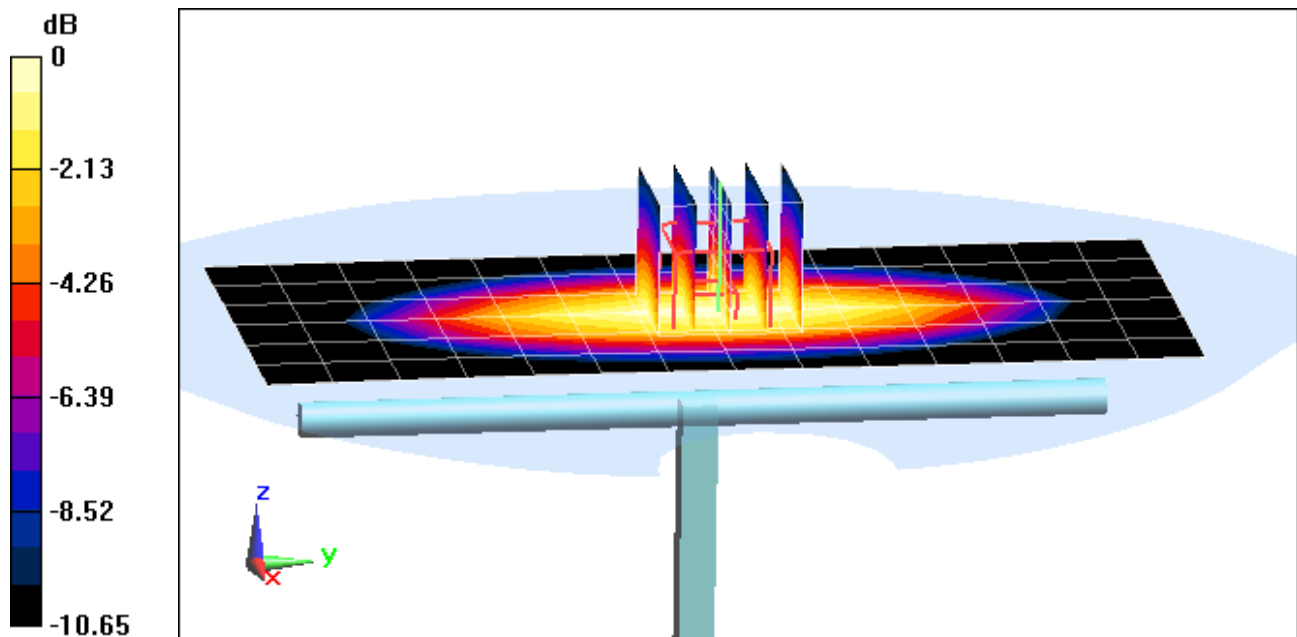
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Input Power: 20 dBm (100 mW)

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.811 W/kg

Deviation: -3.11%



PCTEST ENGINEERING LABORATORY, INC.

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

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

Medium: 835 Head Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.943 \text{ S/m}$; $\epsilon_r = 43.064$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 05-14-2014; Ambient Temp: 22.0°C; Tissue Temp: 21.8°C

Probe: ES3DV3 - SN3209; ConvF(6.23, 6.23, 6.23); Calibrated: 3/19/2014;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 3/17/2014

Phantom: SAM front; Type: QD000P40CD; Serial: TP:1759

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

835 MHz System Verification

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

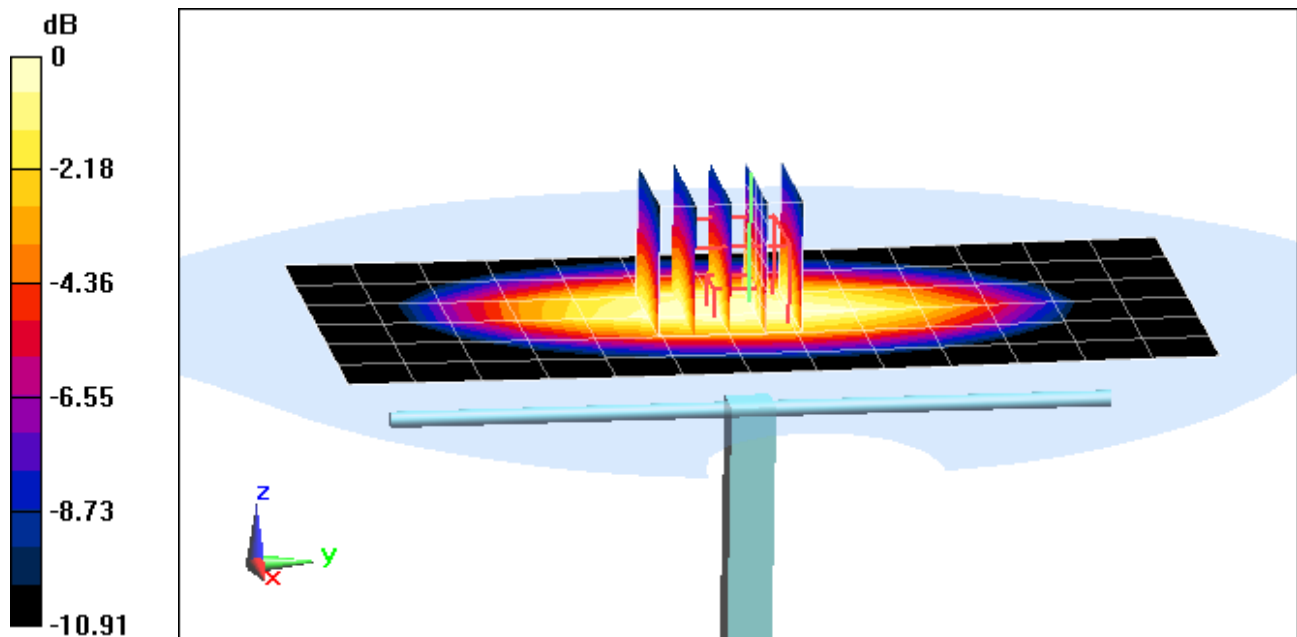
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power: 20 dBm (100 mW)

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.989 W/kg

Deviation: 7.27%



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

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1750 MHz; Type: D1750V3; Serial: 1051

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

Medium: 1750 Head Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.413 \text{ S/m}$; $\epsilon_r = 40.514$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 05-13-2014; Ambient Temp: 23.0°C; Tissue Temp: 22.4°C

Probe: ES3DV3 - SN3258; ConvF(5.19, 5.19, 5.19); Calibrated: 2/25/2014;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

Phantom: SAM Front; Type: SAM; Serial: 1686

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

1750 MHz System Verification

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

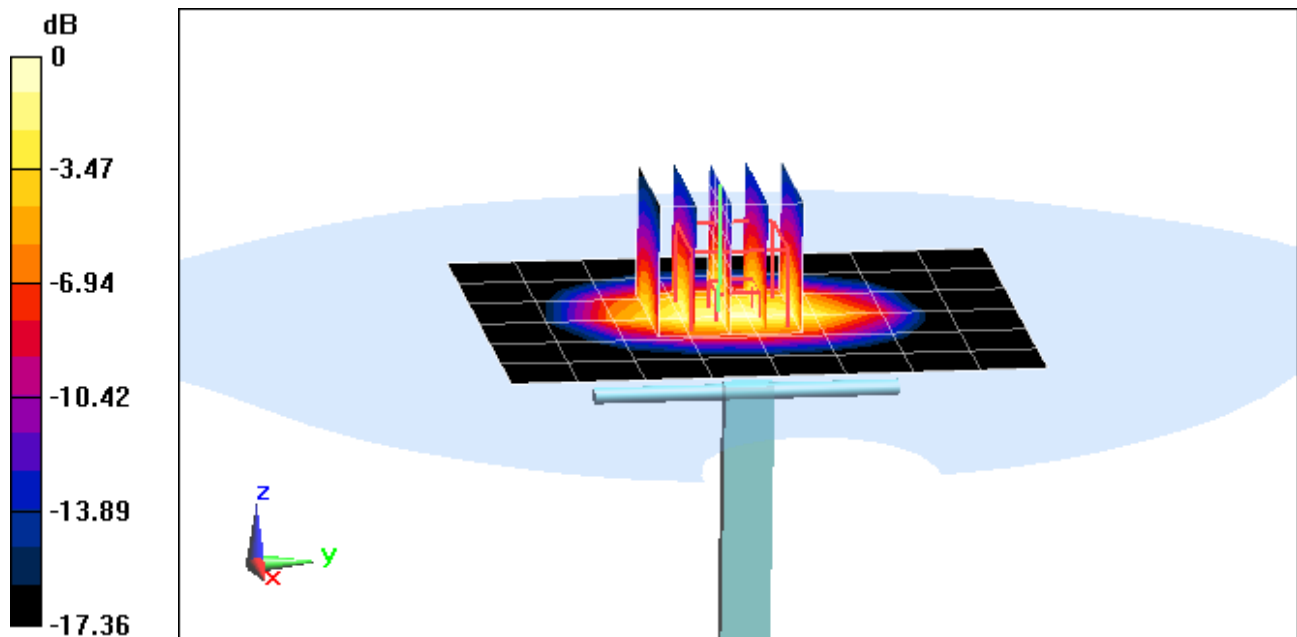
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power: 20 dBm (100 mW)

Peak SAR (extrapolated) = 6.39 W/kg

SAR(1 g) = 3.46 W/kg

Deviation: -4.42%



0 dB = 3.82 W/kg = 5.82 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

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

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

Medium: 1900 Head Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.436 \text{ S/m}$; $\epsilon_r = 39.719$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 04-30-2014; Ambient Temp: 24.5°C; Tissue Temp: 23.1°C

Probe: ES3DV3 - SN3258; ConvF(5.04, 5.04, 5.04); Calibrated: 2/25/2014;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

Phantom: SAM Front; Type: SAM; Serial: 1686

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

1900 MHz System Verification

Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

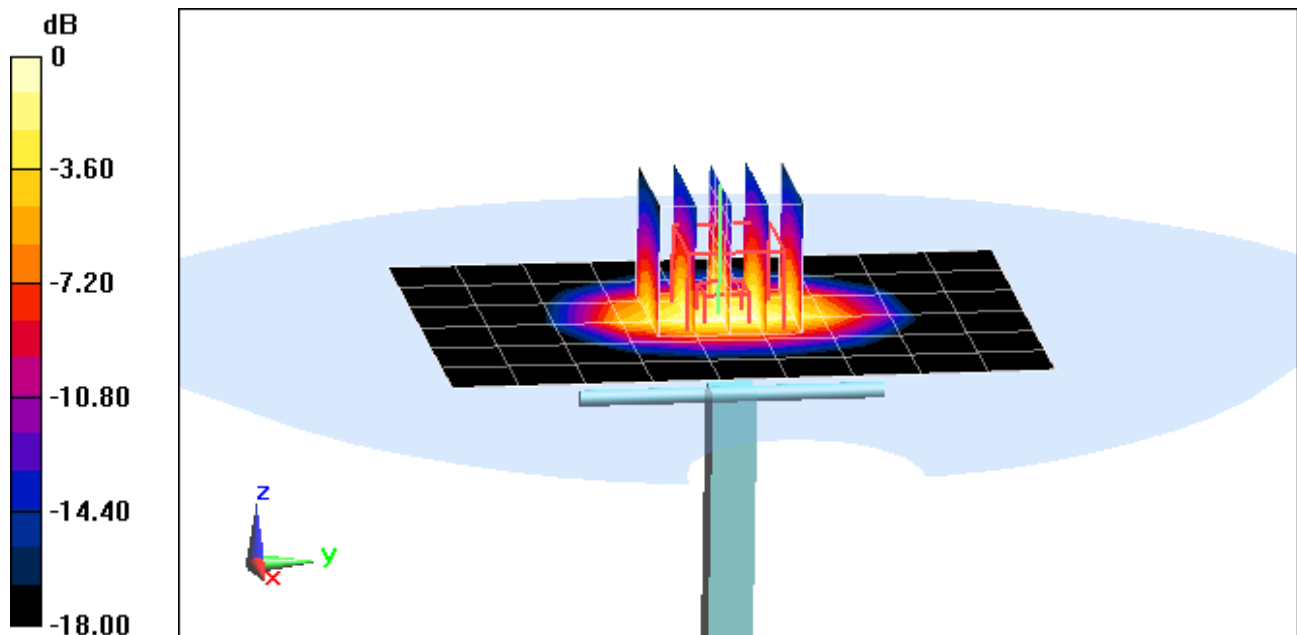
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power: 20 dBm (100 mW)

Peak SAR (extrapolated) = 7.51 W/kg

SAR(1 g) = 4.05 W/kg

Deviation: 0.25%



0 dB = 4.54 W/kg = 6.57 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

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

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

Medium: 2450 Head Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.818 \text{ S/m}$; $\epsilon_r = 38.487$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 05-05-2014; Ambient Temp: 23.3°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN3589; ConvF(6.45, 6.45, 6.45); Calibrated: 1/29/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 1/22/2014

Phantom: SAM; Type: QD000P40CD; Serial: TP:1758

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

2450 MHz System Verification

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

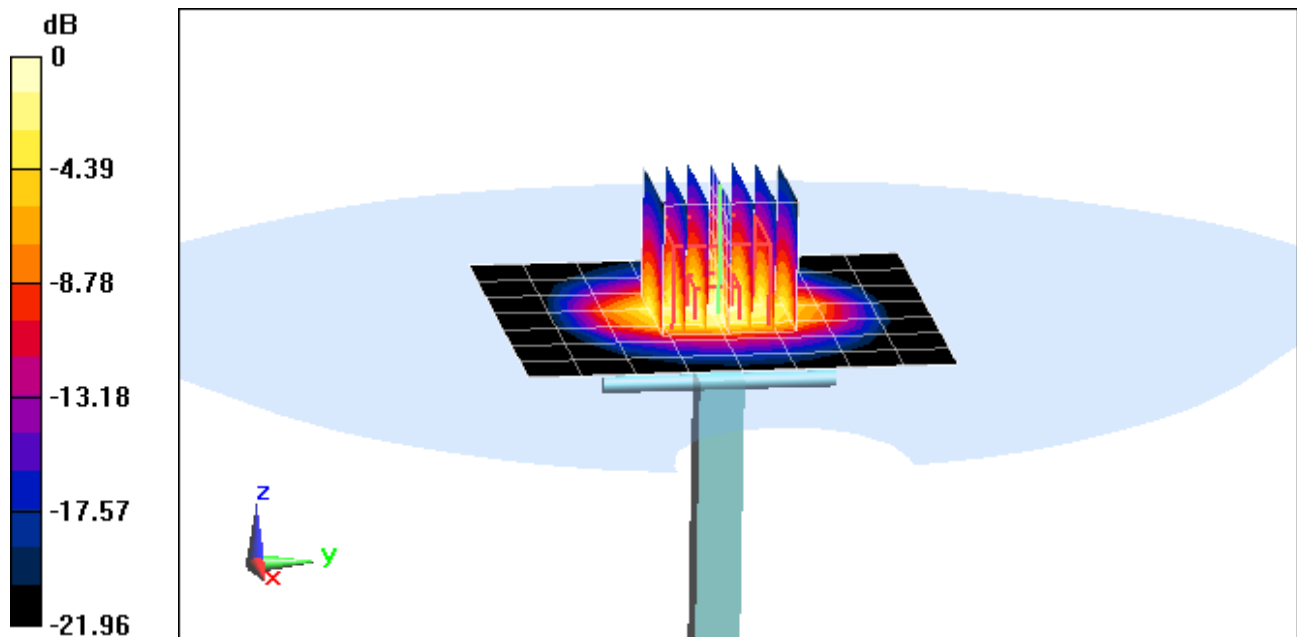
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Input Power: 20 dBm (100 mW)

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 5.08 W/kg

Deviation: -1.93%



0 dB = 6.60 W/kg = 8.20 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003

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

Medium: 750 Body Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 0.981 \text{ S/m}$; $\epsilon_r = 54.822$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 05-06-2014; Ambient Temp: 23.9°C; Tissue Temp: 22.7°C

Probe: ES3DV3 - SN3333; ConvF(6.11, 6.11, 6.11); Calibrated: 11/22/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 11/19/2013

Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1229

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

750 MHz System Verification

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

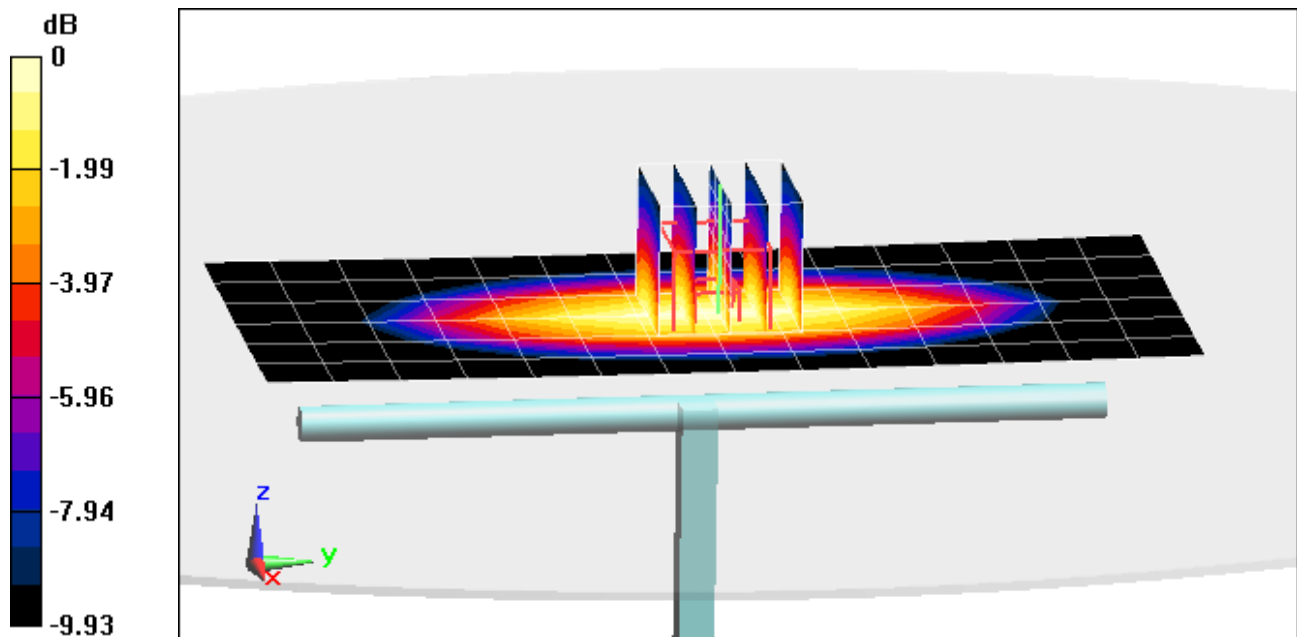
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power: 20 dBm (100 mW)

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.890 W/kg

Deviation: 1.48%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d132

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

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 1.016 \text{ S/m}$; $\epsilon_r = 54.54$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 05-01-2014; Ambient Temp: 24.4°C; Tissue Temp: 24.1°C

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

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

835 MHz System Verification

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

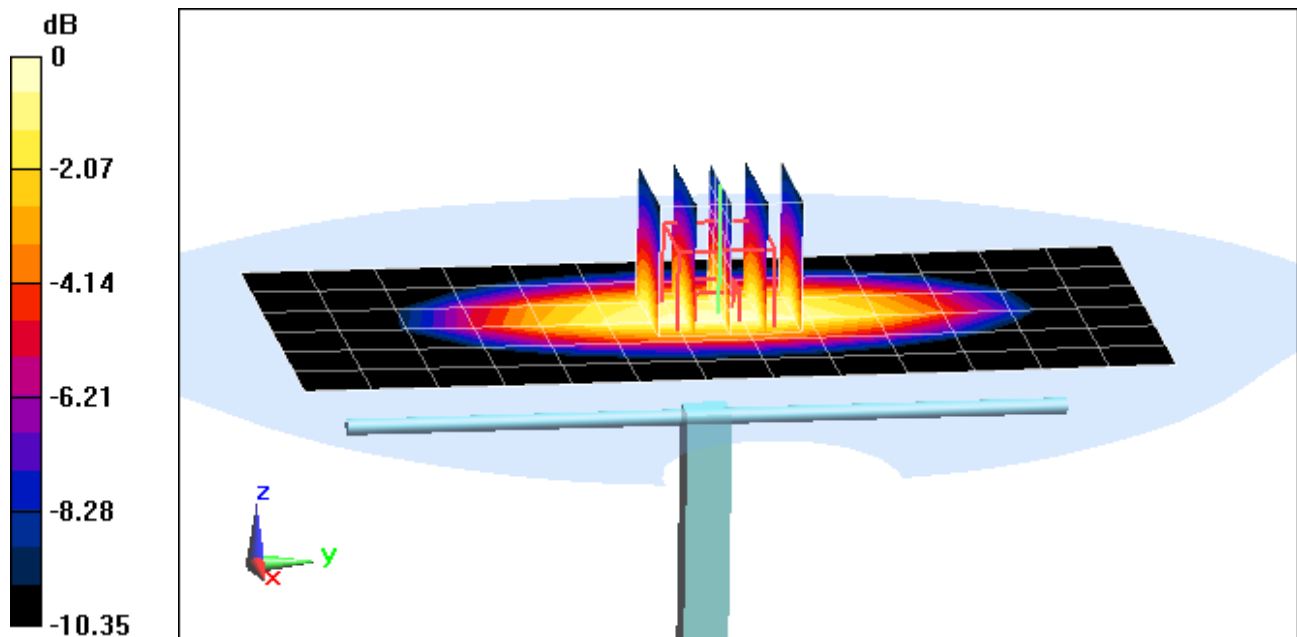
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Input Power: 20 dBm (100 mW)

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.992 W/kg

Deviation: 6.55%



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

PCTEST ENGINEERING LABORATORY, INC.

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

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

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 1.012 \text{ S/m}$; $\epsilon_r = 53.811$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 05-07-2014; Ambient Temp: 24.1°C; Tissue Temp: 22.7°C

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

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

835 MHz System Verification

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

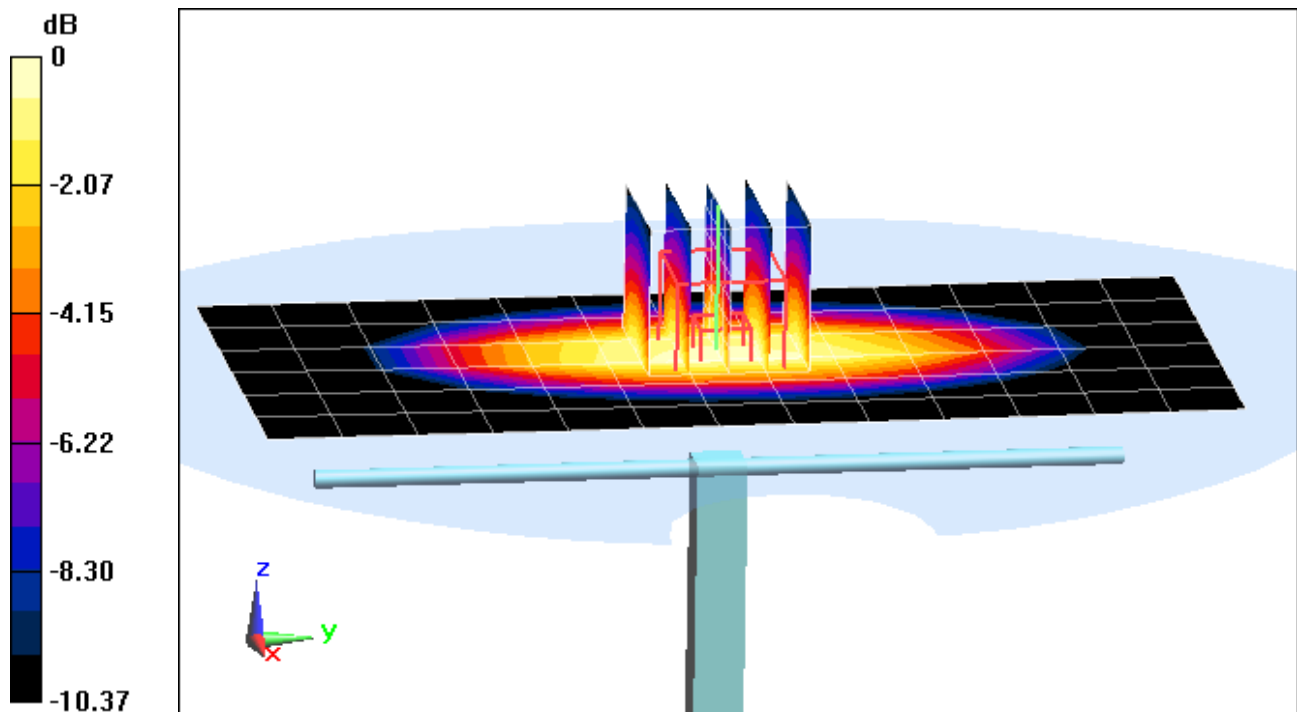
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Input Power: 20 dBm (100 mW)

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.991 W/kg

Deviation: 6.10%



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

PCTEST ENGINEERING LABORATORY, INC.

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

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

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.473 \text{ S/m}$; $\epsilon_r = 52.582$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 05-14-2014; Ambient Temp: 21.5°C; Tissue Temp: 23.1°C

Probe: ES3DV3 - SN3332; ConvF(4.93, 4.93, 4.93); Calibrated: 11/25/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

1750 MHz System Verification

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

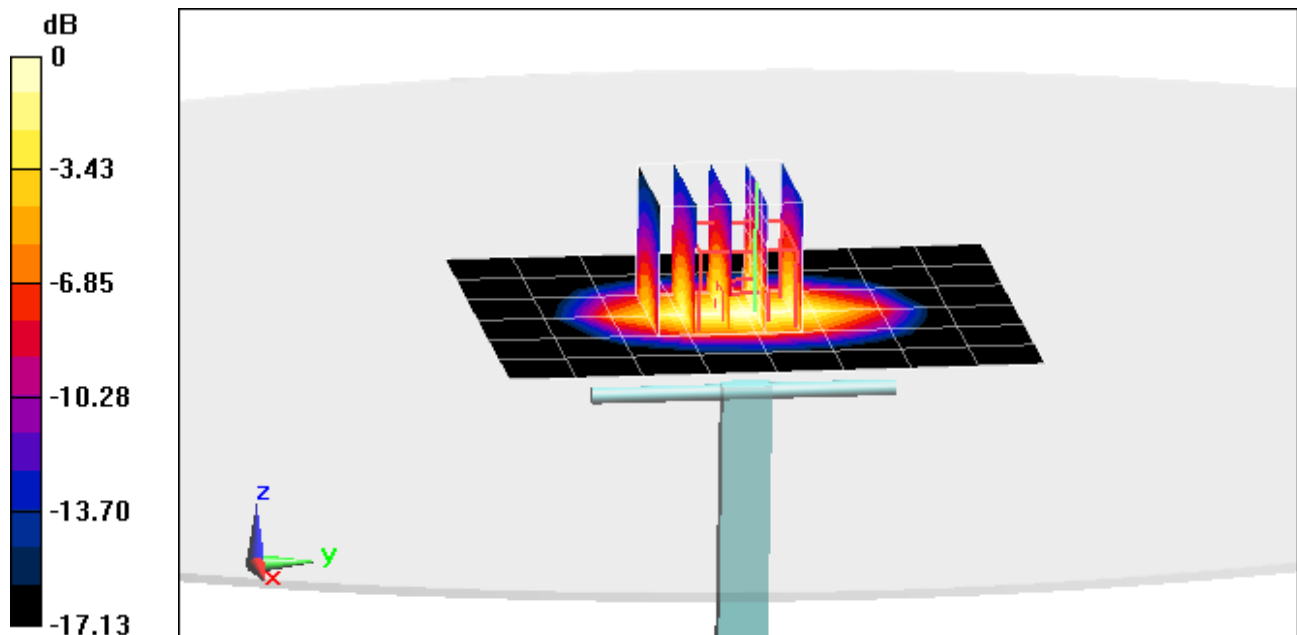
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power: 20 dBm (100 mW)

Peak SAR (extrapolated) = 6.82 W/kg

SAR(1 g) = 3.89 W/kg

Deviation: 4.01%



0 dB = 4.32 W/kg = 6.35 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

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

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

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.515 \text{ S/m}$; $\epsilon_r = 53.225$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 04-30-2014; Ambient Temp: 23.1°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN3914; ConvF(7.51, 7.51, 7.51); Calibrated: 10/23/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 11/19/2013

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

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

1900 MHz System Verification

Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

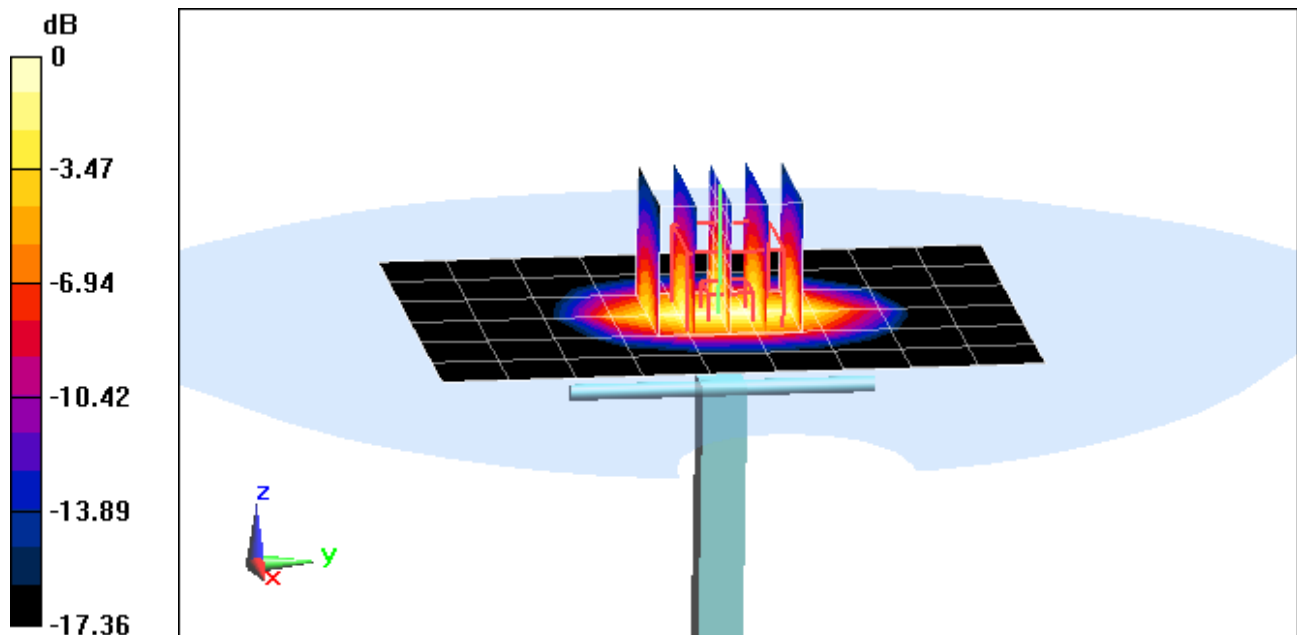
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power: 20 dBm (100 mW)

Peak SAR (extrapolated) = 7.85 W/kg

SAR(1 g) = 4.34 W/kg

Deviation: 7.16%



0 dB = 4.86 W/kg = 6.87 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

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

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

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.54 \text{ S/m}$; $\epsilon_r = 52.665$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 05-14-2014; Ambient Temp: 24.0°C; Tissue Temp: 24.5°C

Probe: ES3DV2 - SN3022; ConvF(4.49, 4.49, 4.49); Calibrated: 8/22/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

1900 MHz System Verification

Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

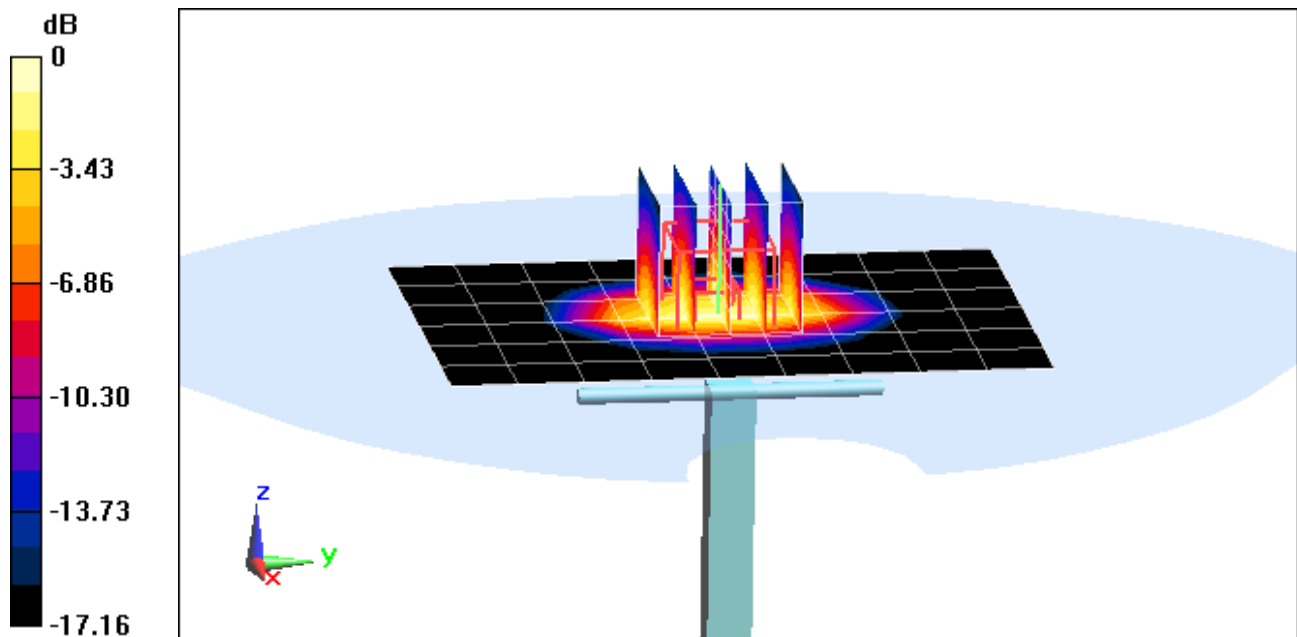
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power: 20 dBm (100 mW)

Peak SAR (extrapolated) = 7.30 W/kg

SAR(1 g) = 4.07 W/kg

Deviation: 0.49%



0 dB = 4.58 W/kg = 6.61 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

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

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.96 \text{ S/m}$; $\epsilon_r = 51.563$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 05-08-2014; Ambient Temp: 24.3°C; Tissue Temp: 23.4°C

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

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

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

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

2450 MHz System Verification

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

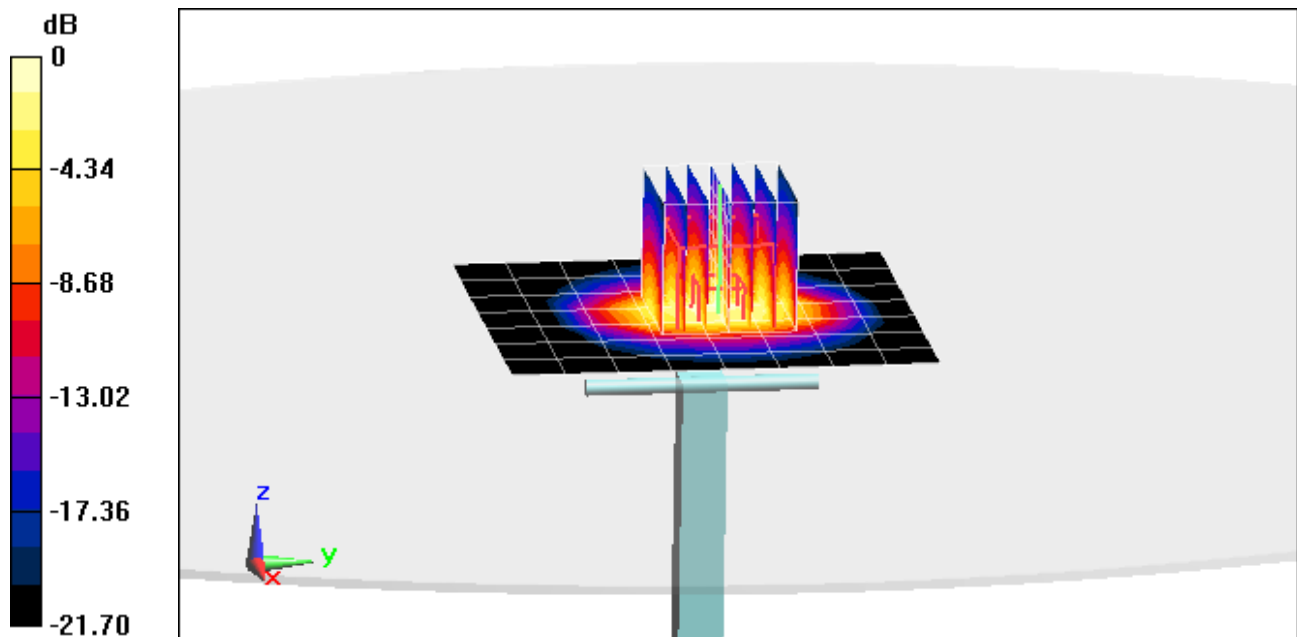
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Input Power: 16 dBm (40 mW)

Peak SAR (extrapolated) = 4.29 W/kg

SAR(1 g) = 2.05 W/kg

Deviation: 3.74%



0 dB = 2.68 W/kg = 4.28 dBW/kg