



SAR EVALUATION REPORT

Applicant Name:

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

Date of Testing:

06/12/14 - 07/07/14

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

Document Serial No.:

OY1406101202.A3L

FCC ID:

A3LSMT807P

APPLICANT:

SAMSUNG ELECTRONICS, CO. LTD.

DUT Type:

Portable Tablet

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-T807P

Equipment Class	Band & Mode	Tx Frequency	SAR
			1 gm Body (W/kg)
PCB	CDMA BC10 (§90S)	817.90 - 823.10 MHz	0.83
PCB	CDMA BC0 (§22H)	824.70 - 848.31 MHz	0.93
PCB	PCS CDMA	1851.25 - 1908.75 MHz	1.03
PCB	LTE Band 26	814.7 - 848.3 MHz	0.25
PCB	LTE Band 25 (PCS)	1851.5 - 1913.5 MHz	0.72
PCB	LTE Band 41	2498.5 - 2687.5 MHz	0.44
DTS	2.4 GHz WLAN	2412 - 2462 MHz	0.59
DTS	Bluetooth LE	2402 - 2480 MHz	N/A
DTS	5.8 GHz WLAN	5745 - 5825 MHz	0.78
NII	5.2 GHz WLAN	5180 - 5240 MHz	0.58
NII	5.3 GHz WLAN	5260 - 5320 MHz	0.55
NII	5.5 GHz WLAN	5500 - 5700 MHz	0.64
DSS	Bluetooth	2402 - 2480 MHz	< 0.1
Simultaneous SAR per KDB 690783 D01v01r02:			1.57

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
CDMA BC10 (§90S)	Data	817.90 - 823.10 MHz
CDMA BC0 (§22H)	Data	824.70 - 848.31 MHz
PCS CDMA	Data	1851.25 - 1908.75 MHz
LTE Band 26	Data	814.7 - 848.3 MHz
LTE Band 25 (PCS)	Data	1851.5 - 1913.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
2.4 GHz WLAN	Data	2412 - 2462 MHz
Bluetooth LE	Data	2402 - 2480 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 proximity sensor for SAR compliance. The proximity sensor is activated when used in close proximity to the user's body. The proximity sensor triggers power reduction for all data modes and is only applicable for tablet operations. There is no power reduction mechanism for WIFI/BT modes for SAR purposes. There are no body-worn accessories for this device. 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.

1.3.1 Maximum Power:

Mode / Band		Modulated Average (dBm)
CDMA BC10 (§90S)	Maximum	25.0
	Nominal	24.5
CDMA BC0 (§22H)	Maximum	25.0
	Nominal	24.5
PCS CDMA	Maximum	25.0
	Nominal	24.5

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Mode / Band		Modulated Average (dBm)
LTE Band 26	Maximum	23.5
	Nominal	23.0
LTE Band 25 (PCS)	Maximum	23.5
	Nominal	23.0
LTE Band 41	Maximum	23.5
	Nominal	23.0

Mode / Band		Modulated Average (dBm)
IEEE 802.11b (2.4 GHz) Ant 1 and Ant 2	Maximum	14.5
	Nominal	14.0
IEEE 802.11g (2.4 GHz) Ant 1 and Ant 2	Maximum	12.5
	Nominal	12.0
IEEE 802.11n (2.4 GHz) Ant 1 and Ant 2	Maximum	12.5
	Nominal	12.0
IEEE 802.11n (2.4 GHz) MIMO	Maximum	17.5
	Nominal	17.0
IEEE 802.11a (5 GHz) Ant 1 and Ant 2	Maximum	9.5
	Nominal	9.0
IEEE 802.11n (5 GHz) Ant 1 and Ant 2	Maximum	9.5
	Nominal	9.0
IEEE 802.11n (5 GHz) MIMO	Maximum	12.0
	Nominal	11.5
IEEE 802.11ac (5 GHz) Ant 1 and Ant 2	Maximum	9.5
	Nominal	9.0
IEEE 802.11ac (5 GHz) MIMO	Maximum	12.0
	Nominal	11.5
Bluetooth	Maximum	11.5
	Nominal	11.0
Bluetooth LE	Maximum	9.0
	Nominal	8.5

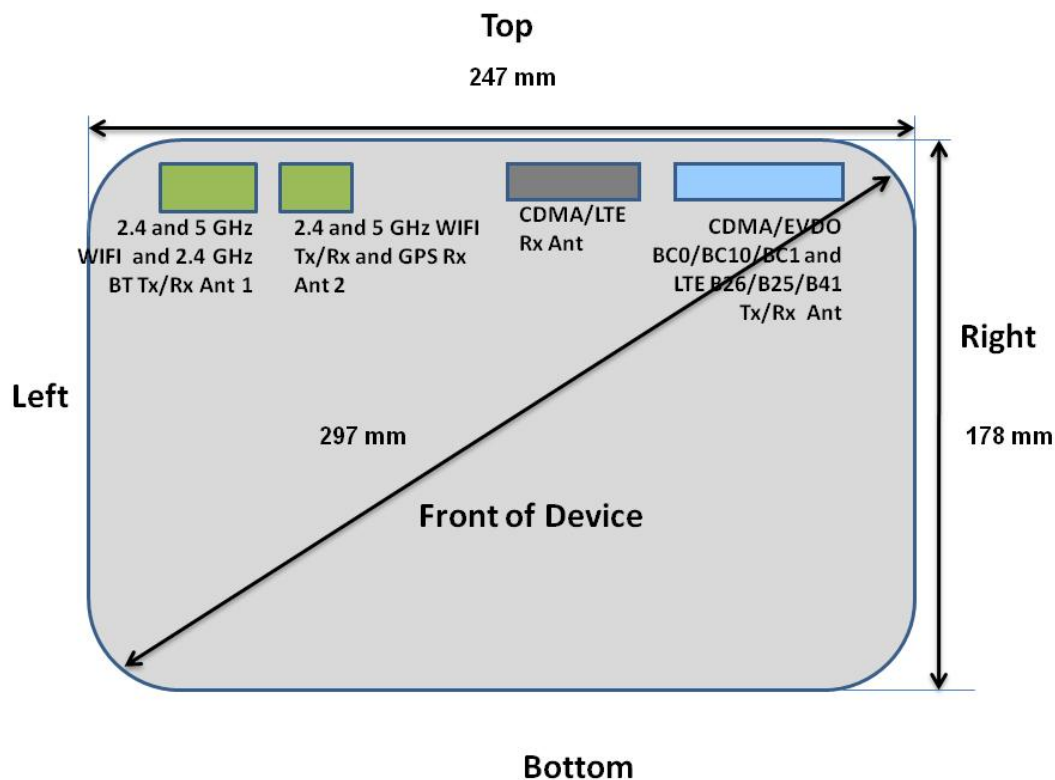
1.3.2 Reduced Power -Body at 0 mm:

Mode / Band		Modulated Average (dBm)
CDMA BC10 (§90S)	Maximum	18.0
	Nominal	17.5
CDMA BC0 (§22H)	Maximum	18.0
	Nominal	17.5
PCS CDMA	Maximum	13.0
	Nominal	12.5

Mode / Band		Modulated Average (dBm)
LTE Band 26	Maximum	16.5
	Nominal	16.0
LTE Band 25 (PCS)	Maximum	12.0
	Nominal	11.5
LTE Band 41	Maximum	12.2
	Nominal	11.7

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1.4 DUT Antenna Locations



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

Figure 1-1
DUT Antenna Locations

Table 1-1
Mobile Sides for SAR Testing

Mode	Back	Top	Bottom	Right	Left
EVDO BC10 (\$90S)	Yes	Yes	No	Yes	No
EVDO BC0 (\$22H)	Yes	Yes	No	Yes	No
PCS EVDO	Yes	Yes	No	Yes	No
LTE Band 26	Yes	Yes	No	Yes	No
LTE Band 25 (PCS)	Yes	Yes	No	Yes	No
LTE Band 41	Yes	Yes	No	Yes	No
2.4 GHz WLAN	Yes	Yes	No	No	Yes
5 GHz WLAN	Yes	Yes	No	No	Yes
Bluetooth	Yes	Yes	No	No	Yes

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. This device supports MIMO Tx for WLAN 802.11n/ac. Each WLAN antenna can transmit independently or together when operating with MIMO.

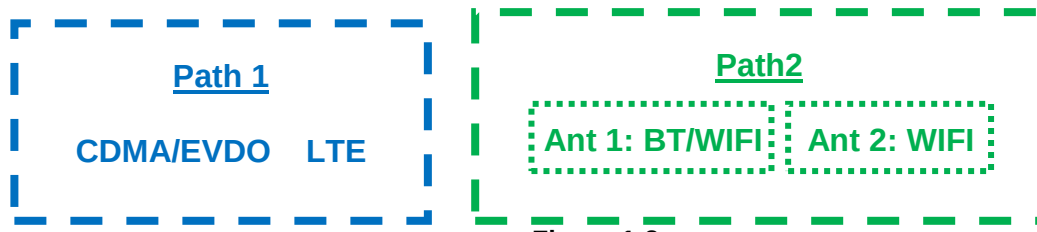


Figure 1-2
Simultaneous Transmission Paths

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	Body
1	LTE + 2.4 GHz WI-FI	Yes
2	LTE + 5 GHz WI-FI	Yes
3	LTE + 2.4 GHz Bluetooth	Yes
4	CDMA/EVDO data + 2.4 GHz WI-FI	Yes
5	CDMA/EVDO data + 5 GHz WI-FI	Yes
6	CDMA/EVDO data + 2.4 GHz Bluetooth	Yes

Notes:

1. CDMA/EVDO and LTE share the same antenna path and cannot transmit simultaneously.
2. This device supports 2x2 MIMO Tx for WLAN 802.11n/ac. Each WLAN antenna can transmit independently or together when operating with MIMO.

1.6 SAR Test Exclusions Applied

(A) WIFI/BT

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

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

Based on the maximum conducted power of Bluetooth LE (rounded to the nearest mW) and the antenna to user separation distance, Bluetooth LE SAR was not required; $[(8/5) * \sqrt{2.48}] = 2.5 < 3.0$.
Per KDB Publication 447498 D01v05, the maximum power of the channel was rounded to the nearest

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mW before calculation. To ensure worst case SAR is excluded the high channel frequency was used in the calculation.

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)

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

- FCC KDB Publication 941225 D01v02 & D05v02r03
- FCC KDB Publication 248227 D01v01r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v05r02 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r03 & D02v01r01 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r01 (Tablet SAR Consideration)
- April 2013 TCB workshop notes (802.11ac)

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.

Mode	Max Power Serial Number	Reduced Power Serial Number
CDMA BC10 (§90S)	FCC #1	FCC #4
CDMA BC0 (§22H)	FCC #1	FCC #4
PCS CDMA	FCC #1	FCC #4
LTE Band 26	FCC #2	FCC #3
LTE Band 25 (PCS)	FCC #2	FCC #8
LTE Band 41	FCC #2	FCC #8
2.4 GHz WLAN	FCC #7	-
5 GHz WLAN	FCC #7	-
Bluetooth	FCC #7	-

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LTE INFORMATION

LTE Information					
FCC ID	A3LSMT807P				
Form Factor	Portable Tablet				
Frequency Range of each LTE transmission band	LTE Band 26 (814.7 - 848.3 MHz)				
	LTE Band 25 (PCS) (1851.5 - 1913.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
Channel Bandwidths	LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 25 (PCS): 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 26: 1.4 MHz	814.7 (26697)	N/A	831.5 (26865)	N/A	848.3 (27033)
LTE Band 26: 3 MHz	815.5 (26705)		831.5 (26865)		847.5 (27025)
LTE Band 26: 5 MHz	816.5 (26715)		831.5 (26865)		846.5 (27015)
LTE Band 26: 10 MHz	819 (26740)		831.5 (26865)		844 (26990)
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)		1913.5 (26675)
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)		1912.5 (26665)
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)		1910 (26640)
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)		1907.5 (26615)
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)		1905 (26590)
LTE Band 41: 5 MHz	2498.5 (39675)	2545.75 (40148)	2593 (40620)	2646.25 (41093)	2687.5 (41565)
LTE Band 41: 10 MHz	2501 (39700)	2547 (40160)	2593 (40620)	2639 (41080)	2685 (41540)
LTE Band 41: 15 MHz	2503.5 (39725)	2548.25 (40173)	2593 (40620)	2637.75 (41068)	2682.5 (41515)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2636.5 (41055)	2636.5 (41055)	2680 (41490)
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/m^3)
- E = Total RMS electric field strength (V/m)

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

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DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

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

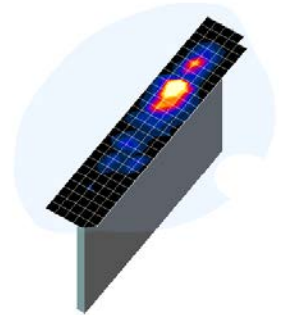


Figure 4-1
Sample SAR Area Scan

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

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{area}, \Delta y_{area}$)	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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5 SAR TESTING PROCEDURES

5.1 SAR Testing for Tablet per KDB Publication 616217 D04

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

5.2 Additional Test Positions due to Proximity Sensor Considerations

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

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

FCC KDB 616217 D04 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional exposure conditions. Since the proximity sensor activation distance for the back side of the device is 22 mm, a conservative distance of 21 mm was tested for SAR on the back side at maximum power. Since the proximity sensor activation distance for the top edge of the device is 20 mm, a conservative distance of 19 mm was tested for SAR on the top 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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6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

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

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

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

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

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7 FCC MEASUREMENT PROCEDURES

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

7.1 Measured and Reported SAR

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

7.2 Procedures Used to Establish RF Signal for SAR

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

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

7.3 SAR Measurement Conditions for CDMA2000

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

7.3.1 Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by "SAR Measurement Procedures for 3G Devices" v02, October 2007. Maximum output power is verified on the High, Middle and Low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. SO55 tests were measured with power control bits in the "All Up" condition.

1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
2. Under RC1, C.S0011 Table 4.4.5.2-1, Table 7-1 parameters were applied.
3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH₀ and demodulation of RC 3,4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH₀ data rate.
4. Under RC3, C.S0011 Table 4.4.5.2-2, Table 7-2 was applied.

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Table 7-1
Parameters for Max. Power for RC1

Parameter	Units	Value
I_{or}	dBm/1.23 MHz	-104
$\frac{Pilot E_c}{I_{or}}$	dB	-7
$\frac{Traffic E_c}{I_{or}}$	dB	-7.4

Table 7-2
Parameters for Max. Power for RC3

Parameter	Units	Value
I_{or}	dBm/1.23 MHz	-86
$\frac{Pilot E_c}{I_{or}}$	dB	-7
$\frac{Traffic E_c}{I_{or}}$	dB	-7.4

5. FCHs were configured at full rate for maximum SAR with “All Up” power control bits.

7.3.2 Body SAR Measurements for EVDO Data Devices

Body SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0 per KDB Publication 941225 D01 procedures for “1x Ev-Do data Devices”. SAR for Subtype 2 Physical layer configurations is not required for Rev. A when the maximum average output of each RF channels is less than that measured in Subtype 0/1 Physical layer configurations. Otherwise, SAR is measured on the maximum output channel for Rev. A using the exposure configuration that results in the highest SAR for the RF channels in Rev. 0. The AT is tested with a Reverse Data Channel rate of 153.6 kbps in Subtype 0/1 Physical Layer configurations; and a Reverse Data Channel payload size of 4096 bits and Termination Target of 16 slots in Subtype 2 Physical Layer configurations.

SAR is not required for 1x RTT for Ev-Do devices that also support 1x RTT voice and/or data operations, when the maximum average output of each channel is less than 1/4 dB higher than that measured in Subtype 0/1 Physical Layer configurations for Rev. 0. Otherwise, CDMA “Body-SAR Measurement” procedures for “CDMA 2000 1x Handsets” were applied.

7.4 SAR Measurement Conditions for LTE

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

7.4.1 Spectrum Plots for RB Configurations

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

7.4.2 MPR

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

7.4.3 A-MPR

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

7.4.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r01:

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- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

7.4.5 TDD

LTE TDD testing procedures were performed using guidance from FCC KDB 941225 D05v02r03 and the SAR test guidance provided in April 2013 TCB workshop notes. TDD was tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225. SAR testing was performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

7.5 SAR Testing with 802.11 Transmitters

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

7.5.1 General Device Setup

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

7.5.2 Frequency Channel Configurations [24]

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

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For 5 GHz, the highest average RF output power channel across the default test channels at the lowest data rate was selected for SAR evaluation in 802.11a. When the adjacent channels are higher in power than the default channels, these "required channels" were considered instead of the default channels for SAR testing. 802.11n modes and higher data rates for 802.11a/n were evaluated only if the respective mode was higher than 0.25 dB or more than the 802.11a mode. 802.11ac SAR was evaluated for highest 802.11a configuration in each 5 GHz band and each exposure condition. 802.11ac modes were additionally evaluated for SAR if the output power for the respective mode was more than 0.25 dB higher than powers of 802.11a modes.

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

7.5.3 MIMO SAR considerations

Per KDB 248227, SAR for MIMO was measured with both transmitting simultaneously and was evaluated independently of SISO operation. For 2.4 and 5 GHz MIMO, 802.11n was evaluated.

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8 RF CONDUCTED POWERS

8.1 CDMA Conducted Powers

Table 8-1
Maximum CDMA Conducted Powers

Band	Channel	Rule Part	Frequency	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	FCH+SCH	FCH	(RTAP)	(RETAP)
Cellular	564	90S	820.1	24.44	24.39	24.45	24.42
Cellular	1013	22H	824.7	24.52	24.51	24.50	24.48
	384	22H	836.52	24.48	24.42	24.45	24.44
	777	22H	848.31	24.49	24.44	24.52	24.49
PCS	25	24E	1851.25	24.18	24.12	24.18	24.16
	600	24E	1880	24.42	24.46	24.47	24.42
	1175	24E	1908.75	24.32	24.30	24.31	24.28

Table 8-2
Reduced CDMA Conducted Powers

Band	Channel	Rule Part	Frequency	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	FCH+SCH	FCH	(RTAP)	(RETAP)
Cellular	564	90S	820.1	17.84	17.80	17.82	17.77
Cellular	1013	22H	824.7	17.74	17.72	17.73	17.67
	384	22H	836.52	17.55	17.51	17.53	17.47
	777	22H	848.31	17.62	17.64	17.59	17.55
PCS	25	24E	1851.25	12.48	12.47	12.53	12.52
	600	24E	1880	12.68	12.62	12.53	12.47
	1175	24E	1908.75	12.17	12.16	11.93	11.92

- For FCC Rule Part 90S, Per FCC KDB Publication 447498 D01v05 4.1.6, only one channel is required since the device operates within the transmission range of 817.90 – 823.10 MHz.
- Per KDB Publication 941225 D01v02, body SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0. If the average output power of Subtype 2 for Rev. A is less than the Rev. 0 power levels, then Rev. A SAR is not required. Otherwise, SAR is measured on the maximum output channel for Rev. A using the exposure configuration that results in the highest SAR for that RF channel in Rev. 0. SAR is not required for 1x RTT for Ev-Do hotspot devices when the maximum average output of each channel is less than 1/4 dB higher than that measured in Subtype 0/1 Physical Layer configurations for Rev. 0

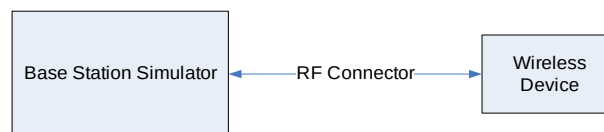


Figure 8-1
Power Measurement Setup

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8.2 LTE Conducted Powers

8.2.1

LTE Band 26 Maximum Power

Table 8-3
LTE Band 26 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	819	26740	10	QPSK	1	0	23.41	0	0
	819	26740	10	QPSK	1	25	23.29	0	0
	819	26740	10	QPSK	1	49	23.07	0	0
	819	26740	10	QPSK	25	0	22.28	0-1	1
	819	26740	10	QPSK	25	12	22.24	0-1	1
	819	26740	10	QPSK	25	25	22.15	0-1	1
	819	26740	10	QPSK	50	0	22.15	0-1	1
	819	26740	10	16QAM	1	0	22.41	0-1	1
	819	26740	10	16QAM	1	25	22.33	0-1	1
	819	26740	10	16QAM	1	49	22.10	0-1	1
	819	26740	10	16QAM	25	0	21.28	0-2	2
	819	26740	10	16QAM	25	12	21.21	0-2	2
	819	26740	10	16QAM	25	25	21.13	0-2	2
	819	26740	10	16QAM	50	0	21.15	0-2	2
Mid	831.5	26865	10	QPSK	1	0	23.00	0	0
	831.5	26865	10	QPSK	1	25	23.09	0	0
	831.5	26865	10	QPSK	1	49	23.22	0	0
	831.5	26865	10	QPSK	25	0	21.99	0-1	1
	831.5	26865	10	QPSK	25	12	22.00	0-1	1
	831.5	26865	10	QPSK	25	25	22.23	0-1	1
	831.5	26865	10	QPSK	50	0	22.02	0-1	1
	831.5	26865	10	16QAM	1	0	22.06	0-1	1
	831.5	26865	10	16QAM	1	25	22.10	0-1	1
	831.5	26865	10	16QAM	1	49	22.19	0-1	1
	831.5	26865	10	16QAM	25	0	21.02	0-2	2
	831.5	26865	10	16QAM	25	12	21.05	0-2	2
	831.5	26865	10	16QAM	25	25	21.19	0-2	2
	831.5	26865	10	16QAM	50	0	21.01	0-2	2
High	844	26990	10	QPSK	1	0	23.05	0	0
	844	26990	10	QPSK	1	25	23.14	0	0
	844	26990	10	QPSK	1	49	22.96	0	0
	844	26990	10	QPSK	25	0	22.02	0-1	1
	844	26990	10	QPSK	25	12	22.05	0-1	1
	844	26990	10	QPSK	25	25	21.96	0-1	1
	844	26990	10	QPSK	50	0	21.88	0-1	1
	844	26990	10	16QAM	1	0	21.99	0-1	1
	844	26990	10	16QAM	1	25	22.13	0-1	1
	844	26990	10	16QAM	1	49	21.92	0-1	1
	844	26990	10	16QAM	25	0	20.98	0-2	2
	844	26990	10	16QAM	25	12	21.02	0-2	2
	844	26990	10	16QAM	25	25	20.95	0-2	2
	844	26990	10	16QAM	50	0	20.85	0-2	2

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Table 8-4
LTE Band 26 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	816.5	26715	5	QPSK	1	0	23.49	0	0
	816.5	26715	5	QPSK	1	12	23.39	0	0
	816.5	26715	5	QPSK	1	24	23.34	0	0
	816.5	26715	5	QPSK	12	0	22.45	0-1	1
	816.5	26715	5	QPSK	12	6	22.43	0-1	1
	816.5	26715	5	QPSK	12	13	22.30	0-1	1
	816.5	26715	5	QPSK	25	0	22.26	0-1	1
	816.5	26715	5	16-QAM	1	0	22.50	0-1	1
	816.5	26715	5	16-QAM	1	12	22.43	0-1	1
	816.5	26715	5	16-QAM	1	24	22.42	0-1	1
	816.5	26715	5	16-QAM	12	0	21.49	0-2	2
	816.5	26715	5	16-QAM	12	6	21.50	0-2	2
Mid	816.5	26715	5	16-QAM	12	13	21.35	0-2	2
	816.5	26715	5	16-QAM	25	0	21.33	0-2	2
	831.5	26865	5	QPSK	1	0	23.09	0	0
	831.5	26865	5	QPSK	1	12	23.07	0	0
	831.5	26865	5	QPSK	1	24	23.17	0	0
	831.5	26865	5	QPSK	12	0	22.11	0-1	1
	831.5	26865	5	QPSK	12	6	22.12	0-1	1
	831.5	26865	5	QPSK	12	13	22.20	0-1	1
	831.5	26865	5	QPSK	25	0	22.07	0-1	1
	831.5	26865	5	16-QAM	1	0	22.11	0-1	1
	831.5	26865	5	16-QAM	1	12	22.16	0-1	1
	831.5	26865	5	16-QAM	1	24	22.23	0-1	1
High	831.5	26865	5	16-QAM	12	0	21.15	0-2	2
	831.5	26865	5	16-QAM	12	6	21.16	0-2	2
	831.5	26865	5	16-QAM	12	13	21.26	0-2	2
	831.5	26865	5	16-QAM	25	0	21.02	0-2	2
	846.5	27015	5	QPSK	1	0	23.06	0	0
	846.5	27015	5	QPSK	1	12	23.02	0	0
	846.5	27015	5	QPSK	1	24	22.94	0	0
	846.5	27015	5	QPSK	12	0	22.16	0-1	1
	846.5	27015	5	QPSK	12	6	22.08	0-1	1
	846.5	27015	5	QPSK	12	13	21.97	0-1	1
	846.5	27015	5	QPSK	25	0	21.96	0-1	1
	846.5	27015	5	16-QAM	1	0	22.05	0-1	1
	846.5	27015	5	16-QAM	1	12	22.13	0-1	1
	846.5	27015	5	16-QAM	1	24	21.96	0-1	1
	846.5	27015	5	16-QAM	12	0	21.14	0-2	2
	846.5	27015	5	16-QAM	12	6	21.08	0-2	2
	846.5	27015	5	16-QAM	12	13	21.06	0-2	2
	846.5	27015	5	16-QAM	25	0	20.94	0-2	2

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Table 8-5
LTE Band 26 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	815.5	26705	3	QPSK	1	0	23.50	0	0
	815.5	26705	3	QPSK	1	7	23.47	0	0
	815.5	26705	3	QPSK	1	14	23.44	0	0
	815.5	26705	3	QPSK	8	0	22.45	0-1	1
	815.5	26705	3	QPSK	8	4	22.50	0-1	1
	815.5	26705	3	QPSK	8	7	22.40	0-1	1
	815.5	26705	3	QPSK	15	0	22.39	0-1	1
	815.5	26705	3	16-QAM	1	0	22.48	0-1	1
	815.5	26705	3	16-QAM	1	7	22.39	0-1	1
	815.5	26705	3	16-QAM	1	14	22.42	0-1	1
	815.5	26705	3	16-QAM	8	0	21.44	0-2	2
	815.5	26705	3	16-QAM	8	4	21.46	0-2	2
	815.5	26705	3	16-QAM	8	7	21.36	0-2	2
	815.5	26705	3	16-QAM	15	0	21.48	0-2	2
Mid	831.5	26865	3	QPSK	1	0	23.16	0	0
	831.5	26865	3	QPSK	1	7	23.12	0	0
	831.5	26865	3	QPSK	1	14	23.25	0	0
	831.5	26865	3	QPSK	8	0	22.15	0-1	1
	831.5	26865	3	QPSK	8	4	22.17	0-1	1
	831.5	26865	3	QPSK	8	7	22.24	0-1	1
	831.5	26865	3	QPSK	15	0	22.11	0-1	1
	831.5	26865	3	16-QAM	1	0	22.17	0-1	1
	831.5	26865	3	16-QAM	1	7	22.13	0-1	1
	831.5	26865	3	16-QAM	1	14	22.24	0-1	1
	831.5	26865	3	16-QAM	8	0	21.06	0-2	2
	831.5	26865	3	16-QAM	8	4	21.12	0-2	2
	831.5	26865	3	16-QAM	8	7	21.12	0-2	2
	831.5	26865	3	16-QAM	15	0	21.12	0-2	2
High	847.5	27025	3	QPSK	1	0	23.14	0	0
	847.5	27025	3	QPSK	1	7	23.02	0	0
	847.5	27025	3	QPSK	1	14	22.92	0	0
	847.5	27025	3	QPSK	8	0	22.02	0-1	1
	847.5	27025	3	QPSK	8	4	22.00	0-1	1
	847.5	27025	3	QPSK	8	7	21.92	0-1	1
	847.5	27025	3	QPSK	15	0	21.98	0-1	1
	847.5	27025	3	16-QAM	1	0	22.05	0-1	1
	847.5	27025	3	16-QAM	1	7	22.02	0-1	1
	847.5	27025	3	16-QAM	1	14	21.90	0-1	1
	847.5	27025	3	16-QAM	8	0	20.98	0-2	2
	847.5	27025	3	16-QAM	8	4	20.93	0-2	2
	847.5	27025	3	16-QAM	8	7	20.86	0-2	2
	847.5	27025	3	16-QAM	15	0	21.01	0-2	2

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Table 8-6
LTE Band 26 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	814.7	26697	1.4	QPSK	1	0	23.49	0	0
	814.7	26697	1.4	QPSK	1	2	23.45	0	0
	814.7	26697	1.4	QPSK	1	5	23.42	0	0
	814.7	26697	1.4	QPSK	3	0	23.45	0	0
	814.7	26697	1.4	QPSK	3	2	23.50	0	0
	814.7	26697	1.4	QPSK	3	3	23.50	0	0
	814.7	26697	1.4	QPSK	6	0	22.47	0-1	1
	814.7	26697	1.4	16-QAM	1	0	22.50	0-1	1
	814.7	26697	1.4	16-QAM	1	2	22.47	0-1	1
	814.7	26697	1.4	16-QAM	1	5	22.45	0-1	1
	814.7	26697	1.4	16-QAM	3	0	22.46	0-1	1
	814.7	26697	1.4	16-QAM	3	2	22.50	0-1	1
Mid	831.5	26697	1.4	16-QAM	3	3	22.50	0-1	1
	814.7	26697	1.4	16-QAM	6	0	21.49	0-2	2
	831.5	26865	1.4	QPSK	1	0	23.12	0	0
	831.5	26865	1.4	QPSK	1	2	23.10	0	0
	831.5	26865	1.4	QPSK	1	5	23.20	0	0
	831.5	26865	1.4	QPSK	3	0	23.08	0	0
	831.5	26865	1.4	QPSK	3	2	23.07	0	0
	831.5	26865	1.4	QPSK	3	3	23.13	0	0
	831.5	26865	1.4	QPSK	6	0	22.18	0-1	1
	831.5	26865	1.4	16-QAM	1	0	22.17	0-1	1
	831.5	26865	1.4	16-QAM	1	2	22.18	0-1	1
	831.5	26865	1.4	16-QAM	1	5	22.29	0-1	1
High	831.5	26865	1.4	16-QAM	3	0	22.16	0-1	1
	831.5	26865	1.4	16-QAM	3	2	22.17	0-1	1
	831.5	26865	1.4	16-QAM	3	3	22.21	0-1	1
	831.5	26865	1.4	16-QAM	6	0	21.17	0-2	2
	848.3	27033	1.4	QPSK	1	0	23.00	0	0
	848.3	27033	1.4	QPSK	1	2	22.96	0	0
	848.3	27033	1.4	QPSK	1	5	22.95	0	0
	848.3	27033	1.4	QPSK	3	0	22.96	0	0
	848.3	27033	1.4	QPSK	3	2	22.99	0	0
	848.3	27033	1.4	QPSK	3	3	22.98	0	0
	848.3	27033	1.4	QPSK	6	0	21.99	0-1	1
	848.3	27033	1.4	16-QAM	1	0	21.99	0-1	1
	848.3	27033	1.4	16-QAM	1	2	21.95	0-1	1
	848.3	27033	1.4	16-QAM	1	5	21.97	0-1	1
	848.3	27033	1.4	16-QAM	3	0	21.96	0-1	1
	848.3	27033	1.4	16-QAM	3	2	21.98	0-1	1
	848.3	27033	1.4	16-QAM	3	3	22.03	0-1	1
	848.3	27033	1.4	16-QAM	6	0	21.03	0-2	2

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LTE Band 26 Reduced Power

Table 8-7

LTE Band 26 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	819	26740	10	QPSK	1	0	16.24	0	0
	819	26740	10	QPSK	1	25	16.09	0	0
	819	26740	10	QPSK	1	49	16.15	0	0
	819	26740	10	QPSK	25	0	16.03	0-1	0
	819	26740	10	QPSK	25	12	16.05	0-1	0
	819	26740	10	QPSK	25	25	16.06	0-1	0
	819	26740	10	QPSK	50	0	15.93	0-1	0
	819	26740	10	16QAM	1	0	16.26	0-1	0
	819	26740	10	16QAM	1	25	16.36	0-1	0
	819	26740	10	16QAM	1	49	16.42	0-1	0
	819	26740	10	16QAM	25	0	16.11	0-2	0
	819	26740	10	16QAM	25	12	15.95	0-2	0
	819	26740	10	16QAM	25	25	15.98	0-2	0
	819	26740	10	16QAM	50	0	15.95	0-2	0
Mid	831.5	26865	10	QPSK	1	0	16.21	0	0
	831.5	26865	10	QPSK	1	25	16.22	0	0
	831.5	26865	10	QPSK	1	49	16.40	0	0
	831.5	26865	10	QPSK	25	0	16.13	0-1	0
	831.5	26865	10	QPSK	25	12	16.18	0-1	0
	831.5	26865	10	QPSK	25	25	16.24	0-1	0
	831.5	26865	10	QPSK	50	0	16.17	0-1	0
	831.5	26865	10	16QAM	1	0	16.44	0-1	0
	831.5	26865	10	16QAM	1	25	16.34	0-1	0
	831.5	26865	10	16QAM	1	49	16.45	0-1	0
	831.5	26865	10	16QAM	25	0	16.15	0-2	0
	831.5	26865	10	16QAM	25	12	16.20	0-2	0
	831.5	26865	10	16QAM	25	25	16.23	0-2	0
	831.5	26865	10	16QAM	50	0	16.09	0-2	0
High	844	26990	10	QPSK	1	0	16.31	0	0
	844	26990	10	QPSK	1	25	16.48	0	0
	844	26990	10	QPSK	1	49	16.23	0	0
	844	26990	10	QPSK	25	0	16.47	0-1	0
	844	26990	10	QPSK	25	12	16.50	0-1	0
	844	26990	10	QPSK	25	25	16.35	0-1	0
	844	26990	10	QPSK	50	0	16.24	0-1	0
	844	26990	10	16QAM	1	0	16.49	0-1	0
	844	26990	10	16QAM	1	25	16.45	0-1	0
	844	26990	10	16QAM	1	49	16.43	0-1	0
	844	26990	10	16QAM	25	0	16.42	0-2	0
	844	26990	10	16QAM	25	12	16.50	0-2	0
	844	26990	10	16QAM	25	25	16.35	0-2	0
	844	26990	10	16QAM	50	0	16.29	0-2	0

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Table 8-8
LTE Band 26 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	816.5	26715	5	QPSK	1	0	16.20	0	0
	816.5	26715	5	QPSK	1	12	16.17	0	0
	816.5	26715	5	QPSK	1	24	16.16	0	0
	816.5	26715	5	QPSK	12	0	16.35	0-1	0
	816.5	26715	5	QPSK	12	6	16.12	0-1	0
	816.5	26715	5	QPSK	12	13	16.09	0-1	0
	816.5	26715	5	QPSK	25	0	16.11	0-1	0
	816.5	26715	5	16-QAM	1	0	16.22	0-1	0
	816.5	26715	5	16-QAM	1	12	16.38	0-1	0
	816.5	26715	5	16-QAM	1	24	16.21	0-1	0
	816.5	26715	5	16-QAM	12	0	16.27	0-2	0
	816.5	26715	5	16-QAM	12	6	16.17	0-2	0
	816.5	26715	5	16-QAM	12	13	16.06	0-2	0
	816.5	26715	5	16-QAM	25	0	16.14	0-2	0
Mid	831.5	26865	5	QPSK	1	0	16.09	0	0
	831.5	26865	5	QPSK	1	12	16.21	0	0
	831.5	26865	5	QPSK	1	24	16.33	0	0
	831.5	26865	5	QPSK	12	0	16.24	0-1	0
	831.5	26865	5	QPSK	12	6	16.29	0-1	0
	831.5	26865	5	QPSK	12	13	16.23	0-1	0
	831.5	26865	5	QPSK	25	0	16.25	0-1	0
	831.5	26865	5	16-QAM	1	0	16.40	0-1	0
	831.5	26865	5	16-QAM	1	12	16.34	0-1	0
	831.5	26865	5	16-QAM	1	24	16.39	0-1	0
	831.5	26865	5	16-QAM	12	0	16.29	0-2	0
	831.5	26865	5	16-QAM	12	6	16.31	0-2	0
	831.5	26865	5	16-QAM	12	13	16.28	0-2	0
	831.5	26865	5	16-QAM	25	0	16.26	0-2	0
High	846.5	27015	5	QPSK	1	0	16.50	0	0
	846.5	27015	5	QPSK	1	12	16.44	0	0
	846.5	27015	5	QPSK	1	24	16.33	0	0
	846.5	27015	5	QPSK	12	0	16.47	0-1	0
	846.5	27015	5	QPSK	12	6	16.45	0-1	0
	846.5	27015	5	QPSK	12	13	16.37	0-1	0
	846.5	27015	5	QPSK	25	0	16.33	0-1	0
	846.5	27015	5	16-QAM	1	0	16.38	0-1	0
	846.5	27015	5	16-QAM	1	12	16.48	0-1	0
	846.5	27015	5	16-QAM	1	24	16.37	0-1	0
	846.5	27015	5	16-QAM	12	0	16.47	0-2	0
	846.5	27015	5	16-QAM	12	6	16.42	0-2	0
	846.5	27015	5	16-QAM	12	13	16.43	0-2	0
	846.5	27015	5	16-QAM	25	0	16.45	0-2	0

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Table 8-9
LTE Band 26 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	815.5	26705	3	QPSK	1	0	16.39	0	0
	815.5	26705	3	QPSK	1	7	16.22	0	0
	815.5	26705	3	QPSK	1	14	16.14	0	0
	815.5	26705	3	QPSK	8	0	16.37	0-1	0
	815.5	26705	3	QPSK	8	4	16.21	0-1	0
	815.5	26705	3	QPSK	8	7	16.13	0-1	0
	815.5	26705	3	QPSK	15	0	16.18	0-1	0
	815.5	26705	3	16-QAM	1	0	16.22	0-1	0
	815.5	26705	3	16-QAM	1	7	16.29	0-1	0
	815.5	26705	3	16-QAM	1	14	16.43	0-1	0
	815.5	26705	3	16-QAM	8	0	16.29	0-2	0
	815.5	26705	3	16-QAM	8	4	16.31	0-2	0
	815.5	26705	3	16-QAM	8	7	16.27	0-2	0
	815.5	26705	3	16-QAM	15	0	16.26	0-2	0
Mid	831.5	26865	3	QPSK	1	0	16.28	0	0
	831.5	26865	3	QPSK	1	7	16.25	0	0
	831.5	26865	3	QPSK	1	14	16.37	0	0
	831.5	26865	3	QPSK	8	0	16.26	0-1	0
	831.5	26865	3	QPSK	8	4	16.32	0-1	0
	831.5	26865	3	QPSK	8	7	16.23	0-1	0
	831.5	26865	3	QPSK	15	0	16.31	0-1	0
	831.5	26865	3	16-QAM	1	0	16.36	0-1	0
	831.5	26865	3	16-QAM	1	7	16.41	0-1	0
	831.5	26865	3	16-QAM	1	14	16.48	0-1	0
	831.5	26865	3	16-QAM	8	0	16.35	0-2	0
	831.5	26865	3	16-QAM	8	4	16.27	0-2	0
	831.5	26865	3	16-QAM	8	7	16.27	0-2	0
	831.5	26865	3	16-QAM	15	0	16.32	0-2	0
High	847.5	27025	3	QPSK	1	0	16.47	0	0
	847.5	27025	3	QPSK	1	7	16.46	0	0
	847.5	27025	3	QPSK	1	14	16.24	0	0
	847.5	27025	3	QPSK	8	0	16.41	0-1	0
	847.5	27025	3	QPSK	8	4	16.31	0-1	0
	847.5	27025	3	QPSK	8	7	16.28	0-1	0
	847.5	27025	3	QPSK	15	0	16.42	0-1	0
	847.5	27025	3	16-QAM	1	0	16.45	0-1	0
	847.5	27025	3	16-QAM	1	7	16.36	0-1	0
	847.5	27025	3	16-QAM	1	14	16.41	0-1	0
	847.5	27025	3	16-QAM	8	0	16.38	0-2	0
	847.5	27025	3	16-QAM	8	4	16.35	0-2	0
	847.5	27025	3	16-QAM	8	7	16.24	0-2	0
	847.5	27025	3	16-QAM	15	0	16.44	0-2	0

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Table 8-10
LTE Band 26 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	814.7	26697	1.4	QPSK	1	0	16.29	0	0
	814.7	26697	1.4	QPSK	1	2	16.46	0	0
	814.7	26697	1.4	QPSK	1	5	16.30	0	0
	814.7	26697	1.4	QPSK	3	0	16.40	0	0
	814.7	26697	1.4	QPSK	3	2	16.22	0	0
	814.7	26697	1.4	QPSK	3	3	16.41	0	0
	814.7	26697	1.4	QPSK	6	0	16.42	0-1	0
	814.7	26697	1.4	16-QAM	1	0	16.36	0-1	0
	814.7	26697	1.4	16-QAM	1	2	16.45	0-1	0
	814.7	26697	1.4	16-QAM	1	5	16.33	0-1	0
	814.7	26697	1.4	16-QAM	3	0	16.34	0-1	0
	814.7	26697	1.4	16-QAM	3	2	16.42	0-1	0
Mid	831.5	26697	1.4	16-QAM	3	3	16.38	0-1	0
	814.7	26697	1.4	16-QAM	6	0	16.29	0-2	0
	831.5	26865	1.4	QPSK	1	0	16.32	0	0
	831.5	26865	1.4	QPSK	1	2	16.36	0	0
	831.5	26865	1.4	QPSK	1	5	16.38	0	0
	831.5	26865	1.4	QPSK	3	0	16.32	0	0
	831.5	26865	1.4	QPSK	3	2	16.27	0	0
	831.5	26865	1.4	QPSK	3	3	16.39	0	0
	831.5	26865	1.4	QPSK	6	0	16.32	0-1	0
	831.5	26865	1.4	16-QAM	1	0	16.43	0-1	0
	831.5	26865	1.4	16-QAM	1	2	16.42	0-1	0
	831.5	26865	1.4	16-QAM	1	5	16.45	0-1	0
High	831.5	26865	1.4	16-QAM	3	0	16.33	0-1	0
	831.5	26865	1.4	16-QAM	3	2	16.35	0-1	0
	831.5	26865	1.4	16-QAM	3	3	16.39	0-1	0
	831.5	26865	1.4	16-QAM	6	0	16.22	0-2	0
	848.3	27033	1.4	QPSK	1	0	16.41	0	0
	848.3	27033	1.4	QPSK	1	2	16.36	0	0
	848.3	27033	1.4	QPSK	1	5	16.37	0	0
	848.3	27033	1.4	QPSK	3	0	16.45	0	0
	848.3	27033	1.4	QPSK	3	2	16.35	0	0
	848.3	27033	1.4	QPSK	3	3	16.42	0	0
	848.3	27033	1.4	QPSK	6	0	16.29	0-1	0
	848.3	27033	1.4	16-QAM	1	0	16.39	0-1	0
	848.3	27033	1.4	16-QAM	1	2	16.40	0-1	0
	848.3	27033	1.4	16-QAM	1	5	16.36	0-1	0
	848.3	27033	1.4	16-QAM	3	0	16.47	0-1	0
	848.3	27033	1.4	16-QAM	3	2	16.33	0-1	0
	848.3	27033	1.4	16-QAM	3	3	16.31	0-1	0
	848.3	27033	1.4	16-QAM	6	0	16.29	0-2	0

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LTE Band 25 (PCS) Maximum Power

Table 8-11

LTE Band 25 (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	26140	20	QPSK	1	0	23.47	0	0
	1860	26140	20	QPSK	1	50	23.35	0	0
	1860	26140	20	QPSK	1	99	23.22	0	0
	1860	26140	20	QPSK	50	0	22.15	0-1	1
	1860	26140	20	QPSK	50	25	22.12	0-1	1
	1860	26140	20	QPSK	50	50	22.15	0-1	1
	1860	26140	20	QPSK	100	0	22.13	0-1	1
	1860	26140	20	16QAM	1	0	22.21	0-1	1
	1860	26140	20	16QAM	1	50	22.47	0-1	1
	1860	26140	20	16QAM	1	99	22.44	0-1	1
	1860	26140	20	16QAM	50	0	21.26	0-2	2
	1860	26140	20	16QAM	50	25	21.16	0-2	2
	1860	26140	20	16QAM	50	50	21.10	0-2	2
	1860	26140	20	16QAM	100	0	21.14	0-2	2
Mid	1882.5	26365	20	QPSK	1	0	23.38	0	0
	1882.5	26365	20	QPSK	1	50	23.43	0	0
	1882.5	26365	20	QPSK	1	99	23.48	0	0
	1882.5	26365	20	QPSK	50	0	21.97	0-1	1
	1882.5	26365	20	QPSK	50	25	22.12	0-1	1
	1882.5	26365	20	QPSK	50	50	22.13	0-1	1
	1882.5	26365	20	QPSK	100	0	22.05	0-1	1
	1882.5	26365	20	16QAM	1	0	22.50	0-1	1
	1882.5	26365	20	16QAM	1	50	22.44	0-1	1
	1882.5	26365	20	16QAM	1	99	22.32	0-1	1
	1882.5	26365	20	16QAM	50	0	20.97	0-2	2
	1882.5	26365	20	16QAM	50	25	21.12	0-2	2
	1882.5	26365	20	16QAM	50	50	21.12	0-2	2
	1882.5	26365	20	16QAM	100	0	20.94	0-2	2
High	1905	26590	20	QPSK	1	0	23.35	0	0
	1905	26590	20	QPSK	1	50	23.45	0	0
	1905	26590	20	QPSK	1	99	23.04	0	0
	1905	26590	20	QPSK	50	0	22.24	0-1	1
	1905	26590	20	QPSK	50	25	22.33	0-1	1
	1905	26590	20	QPSK	50	50	22.18	0-1	1
	1905	26590	20	QPSK	100	0	22.19	0-1	1
	1905	26590	20	16QAM	1	0	22.48	0-1	1
	1905	26590	20	16QAM	1	50	22.38	0-1	1
	1905	26590	20	16QAM	1	99	22.47	0-1	1
	1905	26590	20	16QAM	50	0	21.29	0-2	2
	1905	26590	20	16QAM	50	25	21.24	0-2	2
	1905	26590	20	16QAM	50	50	21.10	0-2	2
	1905	26590	20	16QAM	100	0	21.13	0-2	2

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Table 8-12
LTE Band 25 (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	26115	15	QPSK	1	0	23.38	0	0
	1857.5	26115	15	QPSK	1	36	23.31	0	0
	1857.5	26115	15	QPSK	1	74	23.41	0	0
	1857.5	26115	15	QPSK	36	0	22.31	0-1	1
	1857.5	26115	15	QPSK	36	18	22.22	0-1	1
	1857.5	26115	15	QPSK	36	37	22.25	0-1	1
	1857.5	26115	15	QPSK	75	0	22.19	0-1	1
	1857.5	26115	15	16QAM	1	0	22.47	0-1	1
	1857.5	26115	15	16QAM	1	36	22.44	0-1	1
	1857.5	26115	15	16QAM	1	74	22.40	0-1	1
	1857.5	26115	15	16QAM	36	0	21.21	0-2	2
	1857.5	26115	15	16QAM	36	18	21.20	0-2	2
	1857.5	26115	15	16QAM	36	37	21.20	0-2	2
	1857.5	26115	15	16QAM	75	0	21.10	0-2	2
Mid	1882.5	26365	15	QPSK	1	0	23.03	0	0
	1882.5	26365	15	QPSK	1	36	23.45	0	0
	1882.5	26365	15	QPSK	1	74	23.49	0	0
	1882.5	26365	15	QPSK	36	0	22.15	0-1	1
	1882.5	26365	15	QPSK	36	18	22.21	0-1	1
	1882.5	26365	15	QPSK	36	37	22.20	0-1	1
	1882.5	26365	15	QPSK	75	0	22.11	0-1	1
	1882.5	26365	15	16QAM	1	0	22.46	0-1	1
	1882.5	26365	15	16QAM	1	36	22.45	0-1	1
	1882.5	26365	15	16QAM	1	74	22.47	0-1	1
	1882.5	26365	15	16QAM	36	0	20.97	0-2	2
	1882.5	26365	15	16QAM	36	18	21.05	0-2	2
	1882.5	26365	15	16QAM	36	37	21.07	0-2	2
	1882.5	26365	15	16QAM	75	0	21.03	0-2	2
High	1907.5	26615	15	QPSK	1	0	23.45	0	0
	1907.5	26615	15	QPSK	1	36	23.44	0	0
	1907.5	26615	15	QPSK	1	74	23.38	0	0
	1907.5	26615	15	QPSK	36	0	22.50	0-1	1
	1907.5	26615	15	QPSK	36	18	22.09	0-1	1
	1907.5	26615	15	QPSK	36	37	22.22	0-1	1
	1907.5	26615	15	QPSK	75	0	22.47	0-1	1
	1907.5	26615	15	16QAM	1	0	22.44	0-1	1
	1907.5	26615	15	16QAM	1	36	22.47	0-1	1
	1907.5	26615	15	16QAM	1	74	22.21	0-1	1
	1907.5	26615	15	16QAM	36	0	21.25	0-2	2
	1907.5	26615	15	16QAM	36	18	21.25	0-2	2
	1907.5	26615	15	16QAM	36	37	21.18	0-2	2
	1907.5	26615	15	16QAM	75	0	21.31	0-2	2

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Table 8-13
LTE Band 25 (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	26090	10	QPSK	1	0	22.92	0	0
	1855	26090	10	QPSK	1	25	22.87	0	0
	1855	26090	10	QPSK	1	49	22.80	0	0
	1855	26090	10	QPSK	25	0	21.92	0-1	1
	1855	26090	10	QPSK	25	12	21.88	0-1	1
	1855	26090	10	QPSK	25	25	21.81	0-1	1
	1855	26090	10	QPSK	50	0	21.75	0-1	1
	1855	26090	10	16QAM	1	0	21.92	0-1	1
	1855	26090	10	16QAM	1	25	21.85	0-1	1
	1855	26090	10	16QAM	1	49	21.76	0-1	1
	1855	26090	10	16QAM	25	0	20.93	0-2	2
	1855	26090	10	16QAM	25	12	20.83	0-2	2
	1855	26090	10	16QAM	25	25	20.70	0-2	2
	1855	26090	10	16QAM	50	0	20.69	0-2	2
Mid	1882.5	26365	10	QPSK	1	0	22.74	0	0
	1882.5	26365	10	QPSK	1	25	22.71	0	0
	1882.5	26365	10	QPSK	1	49	22.86	0	0
	1882.5	26365	10	QPSK	25	0	21.64	0-1	1
	1882.5	26365	10	QPSK	25	12	21.77	0-1	1
	1882.5	26365	10	QPSK	25	25	21.74	0-1	1
	1882.5	26365	10	QPSK	50	0	21.62	0-1	1
	1882.5	26365	10	16QAM	1	0	21.75	0-1	1
	1882.5	26365	10	16QAM	1	25	21.81	0-1	1
	1882.5	26365	10	16QAM	1	49	21.85	0-1	1
	1882.5	26365	10	16QAM	25	0	20.57	0-2	2
	1882.5	26365	10	16QAM	25	12	20.68	0-2	2
	1882.5	26365	10	16QAM	25	25	20.66	0-2	2
	1882.5	26365	10	16QAM	50	0	20.68	0-2	2
High	1910	26640	10	QPSK	1	0	23.08	0	0
	1910	26640	10	QPSK	1	25	22.99	0	0
	1910	26640	10	QPSK	1	49	22.95	0	0
	1910	26640	10	QPSK	25	0	22.09	0-1	1
	1910	26640	10	QPSK	25	12	22.01	0-1	1
	1910	26640	10	QPSK	25	25	21.87	0-1	1
	1910	26640	10	QPSK	50	0	21.86	0-1	1
	1910	26640	10	16QAM	1	0	22.04	0-1	1
	1910	26640	10	16QAM	1	25	22.08	0-1	1
	1910	26640	10	16QAM	1	49	21.96	0-1	1
	1910	26640	10	16QAM	25	0	21.13	0-2	2
	1910	26640	10	16QAM	25	12	21.03	0-2	2
	1910	26640	10	16QAM	25	25	20.93	0-2	2
	1910	26640	10	16QAM	50	0	20.87	0-2	2

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Table 8-14
LTE Band 25 (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	26065	5	QPSK	1	0	22.96	0	0
	1852.5	26065	5	QPSK	1	12	23.00	0	0
	1852.5	26065	5	QPSK	1	24	22.88	0	0
	1852.5	26065	5	QPSK	12	0	21.99	0-1	1
	1852.5	26065	5	QPSK	12	6	21.94	0-1	1
	1852.5	26065	5	QPSK	12	13	21.97	0-1	1
	1852.5	26065	5	QPSK	25	0	21.98	0-1	1
	1852.5	26065	5	16-QAM	1	0	21.97	0-1	1
	1852.5	26065	5	16-QAM	1	12	21.98	0-1	1
	1852.5	26065	5	16-QAM	1	24	21.90	0-1	1
	1852.5	26065	5	16-QAM	12	0	21.09	0-2	2
	1852.5	26065	5	16-QAM	12	6	21.05	0-2	2
	1852.5	26065	5	16-QAM	12	13	21.01	0-2	2
Mid	1852.5	26065	5	16-QAM	25	0	20.94	0-2	2
	1882.5	26365	5	QPSK	1	0	22.72	0	0
	1882.5	26365	5	QPSK	1	12	22.74	0	0
	1882.5	26365	5	QPSK	1	24	22.79	0	0
	1882.5	26365	5	QPSK	12	0	21.83	0-1	1
	1882.5	26365	5	QPSK	12	6	21.85	0-1	1
	1882.5	26365	5	QPSK	12	13	21.82	0-1	1
	1882.5	26365	5	QPSK	25	0	21.80	0-1	1
	1882.5	26365	5	16-QAM	1	0	21.82	0-1	1
	1882.5	26365	5	16-QAM	1	12	21.84	0-1	1
	1882.5	26365	5	16-QAM	1	24	21.82	0-1	1
	1882.5	26365	5	16-QAM	12	0	20.77	0-2	2
	1882.5	26365	5	16-QAM	12	6	20.81	0-2	2
High	1882.5	26365	5	16-QAM	12	13	20.80	0-2	2
	1882.5	26365	5	16-QAM	25	0	20.73	0-2	2
	1912.5	26665	5	QPSK	1	0	22.90	0	0
	1912.5	26665	5	QPSK	1	12	22.75	0	0
	1912.5	26665	5	QPSK	1	24	22.90	0	0
	1912.5	26665	5	QPSK	12	0	21.87	0-1	1
	1912.5	26665	5	QPSK	12	6	21.88	0-1	1
	1912.5	26665	5	QPSK	12	13	21.92	0-1	1
	1912.5	26665	5	QPSK	25	0	21.84	0-1	1
	1912.5	26665	5	16-QAM	1	0	21.96	0-1	1
	1912.5	26665	5	16-QAM	1	12	21.91	0-1	1
	1912.5	26665	5	16-QAM	1	24	21.94	0-1	1
	1912.5	26665	5	16-QAM	12	0	20.99	0-2	2
	1912.5	26665	5	16-QAM	12	6	20.98	0-2	2
	1912.5	26665	5	16-QAM	12	13	21.02	0-2	2
	1912.5	26665	5	16-QAM	25	0	20.85	0-2	2

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Table 8-15
LTE Band 25 (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	26055	3	QPSK	1	0	22.95	0	0
	1851.5	26055	3	QPSK	1	7	22.97	0	0
	1851.5	26055	3	QPSK	1	14	23.03	0	0
	1851.5	26055	3	QPSK	8	0	21.97	0-1	1
	1851.5	26055	3	QPSK	8	4	22.00	0-1	1
	1851.5	26055	3	QPSK	8	7	22.00	0-1	1
	1851.5	26055	3	QPSK	15	0	21.94	0-1	1
	1851.5	26055	3	16-QAM	1	0	21.97	0-1	1
	1851.5	26055	3	16-QAM	1	7	21.98	0-1	1
	1851.5	26055	3	16-QAM	1	14	22.02	0-1	1
	1851.5	26055	3	16-QAM	8	0	20.93	0-2	2
	1851.5	26055	3	16-QAM	8	4	20.93	0-2	2
	1851.5	26055	3	16-QAM	8	7	21.01	0-2	2
Mid	1851.5	26055	3	16-QAM	15	0	20.93	0-2	2
	1882.5	26365	3	QPSK	1	0	22.78	0	0
	1882.5	26365	3	QPSK	1	7	22.77	0	0
	1882.5	26365	3	QPSK	1	14	22.78	0	0
	1882.5	26365	3	QPSK	8	0	21.82	0-1	1
	1882.5	26365	3	QPSK	8	4	21.91	0-1	1
	1882.5	26365	3	QPSK	8	7	21.74	0-1	1
	1882.5	26365	3	QPSK	15	0	21.86	0-1	1
	1882.5	26365	3	16-QAM	1	0	21.82	0-1	1
	1882.5	26365	3	16-QAM	1	7	21.76	0-1	1
	1882.5	26365	3	16-QAM	1	14	21.81	0-1	1
	1882.5	26365	3	16-QAM	8	0	20.71	0-2	2
	1882.5	26365	3	16-QAM	8	4	20.84	0-2	2
High	1882.5	26365	3	16-QAM	8	7	20.73	0-2	2
	1882.5	26365	3	16-QAM	15	0	20.79	0-2	2
	1913.5	26675	3	QPSK	1	0	22.81	0	0
	1913.5	26675	3	QPSK	1	7	22.84	0	0
	1913.5	26675	3	QPSK	1	14	23.02	0	0
	1913.5	26675	3	QPSK	8	0	21.88	0-1	1
	1913.5	26675	3	QPSK	8	4	21.97	0-1	1
	1913.5	26675	3	QPSK	8	7	21.95	0-1	1
	1913.5	26675	3	QPSK	15	0	21.83	0-1	1
	1913.5	26675	3	16-QAM	1	0	21.82	0-1	1
	1913.5	26675	3	16-QAM	1	7	21.90	0-1	1
	1913.5	26675	3	16-QAM	1	14	22.05	0-1	1
	1913.5	26675	3	16-QAM	8	0	20.83	0-2	2
	1913.5	26675	3	16-QAM	8	4	20.91	0-2	2
	1913.5	26675	3	16-QAM	8	7	20.96	0-2	2
	1913.5	26675	3	16-QAM	15	0	20.89	0-2	2

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LTE Band 25 (PCS) Reduced Power

Table 8-16

LTE Band 25 (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	26140	20	QPSK	1	0	11.68	0	0
	1860	26140	20	QPSK	1	50	11.77	0	0
	1860	26140	20	QPSK	1	99	11.47	0	0
	1860	26140	20	QPSK	50	0	11.64	0-1	0
	1860	26140	20	QPSK	50	25	11.68	0-1	0
	1860	26140	20	QPSK	50	50	11.67	0-1	0
	1860	26140	20	QPSK	100	0	11.70	0-1	0
	1860	26140	20	16QAM	1	0	11.88	0-1	0
	1860	26140	20	16QAM	1	50	11.91	0-1	0
	1860	26140	20	16QAM	1	99	11.68	0-1	0
	1860	26140	20	16QAM	50	0	11.75	0-2	0
	1860	26140	20	16QAM	50	25	11.75	0-2	0
	1860	26140	20	16QAM	50	50	11.51	0-2	0
	1860	26140	20	16QAM	100	0	11.74	0-2	0
Mid	1882.5	26365	20	QPSK	1	0	11.74	0	0
	1882.5	26365	20	QPSK	1	50	11.85	0	0
	1882.5	26365	20	QPSK	1	99	11.70	0	0
	1882.5	26365	20	QPSK	50	0	11.52	0-1	0
	1882.5	26365	20	QPSK	50	25	11.61	0-1	0
	1882.5	26365	20	QPSK	50	50	11.55	0-1	0
	1882.5	26365	20	QPSK	100	0	11.46	0-1	0
	1882.5	26365	20	16QAM	1	0	11.85	0-1	0
	1882.5	26365	20	16QAM	1	50	11.64	0-1	0
	1882.5	26365	20	16QAM	1	99	11.88	0-1	0
	1882.5	26365	20	16QAM	50	0	11.46	0-2	0
	1882.5	26365	20	16QAM	50	25	11.52	0-2	0
	1882.5	26365	20	16QAM	50	50	11.60	0-2	0
	1882.5	26365	20	16QAM	100	0	11.53	0-2	0
High	1905	26590	20	QPSK	1	0	11.75	0	0
	1905	26590	20	QPSK	1	50	11.57	0	0
	1905	26590	20	QPSK	1	99	11.80	0	0
	1905	26590	20	QPSK	50	0	11.71	0-1	0
	1905	26590	20	QPSK	50	25	11.54	0-1	0
	1905	26590	20	QPSK	50	50	11.57	0-1	0
	1905	26590	20	QPSK	100	0	11.69	0-1	0
	1905	26590	20	16QAM	1	0	11.75	0-1	0
	1905	26590	20	16QAM	1	50	11.97	0-1	0
	1905	26590	20	16QAM	1	99	11.79	0-1	0
	1905	26590	20	16QAM	50	0	11.70	0-2	0
	1905	26590	20	16QAM	50	25	11.76	0-2	0
	1905	26590	20	16QAM	50	50	11.63	0-2	0
	1905	26590	20	16QAM	100	0	11.87	0-2	0

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Table 8-17
LTE Band 25 (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	26115	15	QPSK	1	0	11.23	0	0
	1857.5	26115	15	QPSK	1	36	11.25	0	0
	1857.5	26115	15	QPSK	1	74	11.25	0	0
	1857.5	26115	15	QPSK	36	0	11.08	0-1	0
	1857.5	26115	15	QPSK	36	18	11.20	0-1	0
	1857.5	26115	15	QPSK	36	37	11.31	0-1	0
	1857.5	26115	15	QPSK	75	0	11.26	0-1	0
	1857.5	26115	15	16QAM	1	0	11.56	0-1	0
	1857.5	26115	15	16QAM	1	36	11.42	0-1	0
	1857.5	26115	15	16QAM	1	74	11.23	0-1	0
	1857.5	26115	15	16QAM	36	0	11.24	0-2	0
	1857.5	26115	15	16QAM	36	18	11.33	0-2	0
	1857.5	26115	15	16QAM	36	37	11.00	0-2	0
Mid	1857.5	26115	15	16QAM	75	0	11.30	0-2	0
	1882.5	26365	15	QPSK	1	0	11.05	0	0
	1882.5	26365	15	QPSK	1	36	11.21	0	0
	1882.5	26365	15	QPSK	1	74	11.22	0	0
	1882.5	26365	15	QPSK	36	0	11.05	0-1	0
	1882.5	26365	15	QPSK	36	18	11.22	0-1	0
	1882.5	26365	15	QPSK	36	37	11.20	0-1	0
	1882.5	26365	15	QPSK	75	0	11.19	0-1	0
	1882.5	26365	15	16QAM	1	0	11.43	0-1	0
	1882.5	26365	15	16QAM	1	36	11.37	0-1	0
	1882.5	26365	15	16QAM	1	74	11.52	0-1	0
	1882.5	26365	15	16QAM	36	0	11.10	0-2	0
	1882.5	26365	15	16QAM	36	18	11.00	0-2	0
High	1882.5	26365	15	16QAM	36	37	11.21	0-2	0
	1882.5	26365	15	16QAM	75	0	11.05	0-2	0
	1907.5	26615	15	QPSK	1	0	11.25	0	0
	1907.5	26615	15	QPSK	1	36	11.30	0	0
	1907.5	26615	15	QPSK	1	74	11.06	0	0
	1907.5	26615	15	QPSK	36	0	11.27	0-1	0
	1907.5	26615	15	QPSK	36	18	11.48	0-1	0
	1907.5	26615	15	QPSK	36	37	11.51	0-1	0
	1907.5	26615	15	QPSK	75	0	11.36	0-1	0
	1907.5	26615	15	16QAM	1	0	11.41	0-1	0
	1907.5	26615	15	16QAM	1	36	11.84	0-1	0
	1907.5	26615	15	16QAM	1	74	11.09	0-1	0
	1907.5	26615	15	16QAM	36	0	11.34	0-2	0
	1907.5	26615	15	16QAM	36	18	11.56	0-2	0
	1907.5	26615	15	16QAM	36	37	11.22	0-2	0
	1907.5	26615	15	16QAM	75	0	11.29	0-2	0

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Table 8-18
LTE Band 25 (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	26090	10	QPSK	1	0	11.20	0	0
	1855	26090	10	QPSK	1	25	11.43	0	0
	1855	26090	10	QPSK	1	49	11.42	0	0
	1855	26090	10	QPSK	25	0	11.28	0-1	0
	1855	26090	10	QPSK	25	12	11.45	0-1	0
	1855	26090	10	QPSK	25	25	11.30	0-1	0
	1855	26090	10	QPSK	50	0	11.32	0-1	0
	1855	26090	10	16QAM	1	0	11.13	0-1	0
	1855	26090	10	16QAM	1	25	11.07	0-1	0
	1855	26090	10	16QAM	1	49	11.10	0-1	0
	1855	26090	10	16QAM	25	0	11.00	0-2	0
	1855	26090	10	16QAM	25	12	11.06	0-2	0
	1855	26090	10	16QAM	25	25	11.04	0-2	0
Mid	1882.5	26365	10	QPSK	1	0	11.31	0	0
	1882.5	26365	10	QPSK	1	25	11.46	0	0
	1882.5	26365	10	QPSK	1	49	11.66	0	0
	1882.5	26365	10	QPSK	25	0	11.74	0-1	0
	1882.5	26365	10	QPSK	25	12	11.79	0-1	0
	1882.5	26365	10	QPSK	25	25	11.66	0-1	0
	1882.5	26365	10	QPSK	50	0	11.74	0-1	0
	1882.5	26365	10	16QAM	1	0	11.27	0-1	0
	1882.5	26365	10	16QAM	1	25	11.16	0-1	0
	1882.5	26365	10	16QAM	1	49	11.22	0-1	0
	1882.5	26365	10	16QAM	25	0	11.19	0-2	0
	1882.5	26365	10	16QAM	25	12	11.12	0-2	0
	1882.5	26365	10	16QAM	25	25	11.09	0-2	0
	1882.5	26365	10	16QAM	50	0	11.26	0-2	0
High	1910	26640	10	QPSK	1	0	11.78	0	0
	1910	26640	10	QPSK	1	25	11.88	0	0
	1910	26640	10	QPSK	1	49	11.75	0	0
	1910	26640	10	QPSK	25	0	11.94	0-1	0
	1910	26640	10	QPSK	25	12	11.86	0-1	0
	1910	26640	10	QPSK	25	25	11.76	0-1	0
	1910	26640	10	QPSK	50	0	11.74	0-1	0
	1910	26640	10	16QAM	1	0	11.00	0-1	0
	1910	26640	10	16QAM	1	25	11.36	0-1	0
	1910	26640	10	16QAM	1	49	11.40	0-1	0
	1910	26640	10	16QAM	25	0	11.34	0-2	0
	1910	26640	10	16QAM	25	12	11.31	0-2	0
	1910	26640	10	16QAM	25	25	11.34	0-2	0
	1910	26640	10	16QAM	50	0	11.39	0-2	0

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Table 8-19
LTE Band 25 (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	26065	5	QPSK	1	0	11.11	0	0
	1852.5	26065	5	QPSK	1	12	11.06	0	0
	1852.5	26065	5	QPSK	1	24	11.05	0	0
	1852.5	26065	5	QPSK	12	0	11.02	0-1	0
	1852.5	26065	5	QPSK	12	6	11.13	0-1	0
	1852.5	26065	5	QPSK	12	13	11.12	0-1	0
	1852.5	26065	5	QPSK	25	0	11.17	0-1	0
	1852.5	26065	5	16-QAM	1	0	11.15	0-1	0
	1852.5	26065	5	16-QAM	1	12	11.08	0-1	0
	1852.5	26065	5	16-QAM	1	24	11.02	0-1	0
	1852.5	26065	5	16-QAM	12	0	11.16	0-2	0
	1852.5	26065	5	16-QAM	12	6	11.15	0-2	0
	1852.5	26065	5	16-QAM	12	13	11.09	0-2	0
Mid	1882.5	26365	5	QPSK	1	0	11.26	0	0
	1882.5	26365	5	QPSK	1	12	11.18	0	0
	1882.5	26365	5	QPSK	1	24	11.02	0	0
	1882.5	26365	5	QPSK	12	0	11.16	0-1	0
	1882.5	26365	5	QPSK	12	6	11.13	0-1	0
	1882.5	26365	5	QPSK	12	13	11.16	0-1	0
	1882.5	26365	5	QPSK	25	0	11.10	0-1	0
	1882.5	26365	5	16-QAM	1	0	11.13	0-1	0
	1882.5	26365	5	16-QAM	1	12	11.08	0-1	0
	1882.5	26365	5	16-QAM	1	24	11.03	0-1	0
	1882.5	26365	5	16-QAM	12	0	11.10	0-2	0
	1882.5	26365	5	16-QAM	12	6	11.02	0-2	0
	1882.5	26365	5	16-QAM	12	13	11.14	0-2	0
	1882.5	26365	5	16-QAM	25	0	11.09	0-2	0
High	1912.5	26665	5	QPSK	1	0	11.27	0	0
	1912.5	26665	5	QPSK	1	12	11.17	0	0
	1912.5	26665	5	QPSK	1	24	11.20	0	0
	1912.5	26665	5	QPSK	12	0	11.16	0-1	0
	1912.5	26665	5	QPSK	12	6	11.47	0-1	0
	1912.5	26665	5	QPSK	12	13	11.27	0-1	0
	1912.5	26665	5	QPSK	25	0	11.39	0-1	0
	1912.5	26665	5	16-QAM	1	0	11.38	0-1	0
	1912.5	26665	5	16-QAM	1	12	11.42	0-1	0
	1912.5	26665	5	16-QAM	1	24	11.21	0-1	0
	1912.5	26665	5	16-QAM	12	0	11.28	0-2	0
	1912.5	26665	5	16-QAM	12	6	11.40	0-2	0
	1912.5	26665	5	16-QAM	12	13	11.27	0-2	0
	1912.5	26665	5	16-QAM	25	0	11.22	0-2	0

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Table 8-20
LTE Band 25 (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	26055	3	QPSK	1	0	11.01	0	0
	1851.5	26055	3	QPSK	1	7	11.00	0	0
	1851.5	26055	3	QPSK	1	14	11.05	0	0
	1851.5	26055	3	QPSK	8	0	11.03	0-1	0
	1851.5	26055	3	QPSK	8	4	11.10	0-1	0
	1851.5	26055	3	QPSK	8	7	11.15	0-1	0
	1851.5	26055	3	QPSK	15	0	11.12	0-1	0
	1851.5	26055	3	16-QAM	1	0	11.01	0-1	0
	1851.5	26055	3	16-QAM	1	7	11.10	0-1	0
	1851.5	26055	3	16-QAM	1	14	11.08	0-1	0
	1851.5	26055	3	16-QAM	8	0	11.03	0-2	0
	1851.5	26055	3	16-QAM	8	4	11.01	0-2	0
	1851.5	26055	3	16-QAM	8	7	11.03	0-2	0
	1851.5	26055	3	16-QAM	15	0	11.21	0-2	0
Mid	1882.5	26365	3	QPSK	1	0	11.34	0	0
	1882.5	26365	3	QPSK	1	7	11.00	0	0
	1882.5	26365	3	QPSK	1	14	11.03	0	0
	1882.5	26365	3	QPSK	8	0	11.02	0-1	0
	1882.5	26365	3	QPSK	8	4	11.10	0-1	0
	1882.5	26365	3	QPSK	8	7	11.16	0-1	0
	1882.5	26365	3	QPSK	15	0	11.01	0-1	0
	1882.5	26365	3	16-QAM	1	0	11.23	0-1	0
	1882.5	26365	3	16-QAM	1	7	11.13	0-1	0
	1882.5	26365	3	16-QAM	1	14	11.05	0-1	0
	1882.5	26365	3	16-QAM	8	0	11.02	0-2	0
	1882.5	26365	3	16-QAM	8	4	11.03	0-2	0
	1882.5	26365	3	16-QAM	8	7	11.06	0-2	0
	1882.5	26365	3	16-QAM	15	0	11.13	0-2	0
High	1913.5	26675	3	QPSK	1	0	11.25	0	0
	1913.5	26675	3	QPSK	1	7	11.12	0	0
	1913.5	26675	3	QPSK	1	14	11.13	0	0
	1913.5	26675	3	QPSK	8	0	11.29	0-1	0
	1913.5	26675	3	QPSK	8	4	11.28	0-1	0
	1913.5	26675	3	QPSK	8	7	11.17	0-1	0
	1913.5	26675	3	QPSK	15	0	11.26	0-1	0
	1913.5	26675	3	16-QAM	1	0	11.25	0-1	0
	1913.5	26675	3	16-QAM	1	7	11.34	0-1	0
	1913.5	26675	3	16-QAM	1	14	11.15	0-1	0
	1913.5	26675	3	16-QAM	8	0	11.22	0-2	0
	1913.5	26675	3	16-QAM	8	4	11.13	0-2	0
	1913.5	26675	3	16-QAM	8	7	11.18	0-2	0
	1913.5	26675	3	16-QAM	15	0	11.28	0-2	0

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LTE Band 41 Maximum Power

Table 8-21
LTE Band 41 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	2506	39750	20	QPSK	1	0	23.36	0	0
	2506	39750	20	QPSK	1	49	23.31	0	0
	2506	39750	20	QPSK	1	99	23.34	0	0
	2506	39750	20	QPSK	50	0	22.20	0-1	1
	2506	39750	20	QPSK	50	25	22.12	0-1	1
	2506	39750	20	QPSK	50	50	22.17	0-1	1
	2506	39750	20	QPSK	100	0	22.15	0-1	1
	2506	39750	20	16QAM	1	0	22.36	0-1	1
	2506	39750	20	16QAM	1	49	22.29	0-1	1
	2506	39750	20	16QAM	1	99	22.27	0-1	1
	2506	39750	20	16QAM	50	0	21.25	0-2	2
	2506	39750	20	16QAM	50	25	21.20	0-2	2
	2506	39750	20	16QAM	50	50	21.18	0-2	2
	2506	39750	20	16QAM	100	0	21.17	0-2	2
Low Mid	2549.5	40185	20	QPSK	1	0	23.06	0	0
	2549.5	40185	20	QPSK	1	49	23.05	0	0
	2549.5	40185	20	QPSK	1	99	22.98	0	0
	2549.5	40185	20	QPSK	50	0	21.90	0-1	1
	2549.5	40185	20	QPSK	50	25	21.84	0-1	1
	2549.5	40185	20	QPSK	50	50	21.81	0-1	1
	2549.5	40185	20	QPSK	100	0	21.84	0-1	1
	2549.5	40185	20	16-QAM	1	0	22.23	0-1	1
	2549.5	40185	20	16-QAM	1	49	22.25	0-1	1
	2549.5	40185	20	16-QAM	1	99	22.28	0-1	1
	2549.5	40185	20	16-QAM	50	0	20.83	0-2	2
	2549.5	40185	20	16-QAM	50	25	20.80	0-2	2
	2549.5	40185	20	16-QAM	50	50	20.82	0-2	2
	2549.5	40185	20	16-QAM	100	0	20.85	0-2	2
Mid	2593	40620	20	QPSK	1	0	23.29	0	0
	2593	40620	20	QPSK	1	49	23.20	0	0
	2593	40620	20	QPSK	1	99	23.26	0	0
	2593	40620	20	QPSK	50	0	22.11	0-1	1
	2593	40620	20	QPSK	50	25	22.07	0-1	1
	2593	40620	20	QPSK	50	50	22.06	0-1	1
	2593	40620	20	QPSK	100	0	22.10	0-1	1
	2593	40620	20	16-QAM	1	0	22.43	0-1	1
	2593	40620	20	16-QAM	1	49	22.44	0-1	1
	2593	40620	20	16-QAM	1	99	22.47	0-1	1
	2593	40620	20	16-QAM	50	0	21.03	0-2	2
	2593	40620	20	16-QAM	50	25	21.02	0-2	2
	2593	40620	20	16-QAM	50	50	21.03	0-2	2
	2593	40620	20	16-QAM	100	0	21.04	0-2	2
Mid High	2636.5	41055	20	QPSK	1	0	23.44	0	0
	2636.5	41055	20	QPSK	1	49	23.39	0	0
	2636.5	41055	20	QPSK	1	99	23.35	0	0
	2636.5	41055	20	QPSK	50	0	22.19	0-1	1
	2636.5	41055	20	QPSK	50	25	22.10	0-1	1
	2636.5	41055	20	QPSK	50	50	22.08	0-1	1
	2636.5	41055	20	QPSK	100	0	22.16	0-1	1
	2636.5	41055	20	16-QAM	1	0	22.49	0-1	1
	2636.5	41055	20	16-QAM	1	49	22.46	0-1	1
	2636.5	41055	20	16-QAM	1	99	22.50	0-1	1
	2636.5	41055	20	16-QAM	50	0	21.35	0-2	2
	2636.5	41055	20	16-QAM	50	25	21.14	0-2	2
	2636.5	41055	20	16-QAM	50	50	21.05	0-2	2
	2636.5	41055	20	16-QAM	100	0	21.07	0-2	2
High	2680	41490	20	QPSK	1	0	23.50	0	0
	2680	41490	20	QPSK	1	49	23.48	0	0
	2680	41490	20	QPSK	1	99	23.46	0	0
	2680	41490	20	QPSK	50	0	22.21	0-1	1
	2680	41490	20	QPSK	50	25	22.13	0-1	1
	2680	41490	20	QPSK	50	50	22.12	0-1	1
	2680	41490	20	QPSK	100	0	22.13	0-1	1
	2680	41490	20	16-QAM	1	0	22.17	0-1	1
	2680	41490	20	16-QAM	1	49	22.16	0-1	1
	2680	41490	20	16-QAM	1	99	22.13	0-1	1
	2680	41490	20	16-QAM	50	0	21.10	0-2	2
	2680	41490	20	16-QAM	50	25	21.03	0-2	2
	2680	41490	20	16-QAM	50	50	21.02	0-2	2
	2680	41490	20	16-QAM	100	0	21.01	0-2	2

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Table 8-22
LTE Band 41 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	2503.5	39725	15	QPSK	1	0	23.38	0	0
	2503.5	39725	15	QPSK	1	36	23.42	0	0
	2503.5	39725	15	QPSK	1	74	23.41	0	0
	2503.5	39725	15	QPSK	36	0	22.36	0-1	1
	2503.5	39725	15	QPSK	36	18	22.30	0-1	1
	2503.5	39725	15	QPSK	36	37	22.29	0-1	1
	2503.5	39725	15	QPSK	75	0	22.22	0-1	1
	2503.5	39725	15	16QAM	1	0	22.49	0-1	1
	2503.5	39725	15	16QAM	1	36	22.45	0-1	1
	2503.5	39725	15	16QAM	1	74	22.43	0-1	1
	2503.5	39725	15	16QAM	36	0	21.35	0-2	2
	2503.5	39725	15	16QAM	36	18	21.28	0-2	2
Low Mid	2503.5	39725	15	16QAM	36	37	21.32	0-2	2
	2503.5	39725	15	16QAM	75	0	21.21	0-2	2
	2548.25	40173	15	QPSK	1	0	23.10	0	0
	2548.25	40173	15	QPSK	1	36	23.06	0	0
	2548.25	40173	15	QPSK	1	74	23.03	0	0
	2548.25	40173	15	QPSK	36	0	22.01	0-1	1
	2548.25	40173	15	QPSK	36	18	21.93	0-1	1
	2548.25	40173	15	QPSK	36	37	21.96	0-1	1
	2548.25	40173	15	QPSK	75	0	21.92	0-1	1
	2548.25	40173	15	16-QAM	1	0	22.13	0-1	1
	2548.25	40173	15	16-QAM	1	36	22.09	0-1	1
	2548.25	40173	15	16-QAM	1	74	22.06	0-1	1
Mid	2548.25	40173	15	16-QAM	36	0	21.02	0-2	2
	2548.25	40173	15	16-QAM	36	18	20.93	0-2	2
	2548.25	40173	15	16-QAM	36	37	20.92	0-2	2
	2548.25	40173	15	16-QAM	75	0	20.89	0-2	2
	2593	40620	15	QPSK	1	0	23.20	0	0
	2593	40620	15	QPSK	1	36	23.25	0	0
	2593	40620	15	QPSK	1	74	23.34	0	0
	2593	40620	15	QPSK	36	0	22.18	0-1	1
	2593	40620	15	QPSK	36	18	22.16	0-1	1
	2593	40620	15	QPSK	36	37	22.13	0-1	1
	2593	40620	15	QPSK	75	0	22.12	0-1	1
	2593	40620	15	16-QAM	1	0	22.45	0-1	1
Mid High	2593	40620	15	16-QAM	1	36	22.49	0-1	1
	2593	40620	15	16-QAM	1	74	22.50	0-1	1
	2593	40620	15	16-QAM	36	0	21.16	0-2	2
	2593	40620	15	16-QAM	36	18	21.14	0-2	2
	2593	40620	15	16-QAM	36	37	21.12	0-2	2
	2593	40620	15	16-QAM	75	0	21.15	0-2	2
	2637.75	41068	15	QPSK	1	0	23.42	0	0
	2637.75	41068	15	QPSK	1	36	23.30	0	0
	2637.75	41068	15	QPSK	1	74	23.22	0	0
	2637.75	41068	15	QPSK	36	0	22.28	0-1	1
	2637.75	41068	15	QPSK	36	18	22.19	0-1	1
	2637.75	41068	15	QPSK	36	37	22.13	0-1	1
High	2637.75	41068	15	QPSK	75	0	22.14	0-1	1
	2637.75	41068	15	16-QAM	1	0	22.47	0-1	1
	2637.75	41068	15	16-QAM	1	36	22.38	0-1	1
	2637.75	41068	15	16-QAM	1	74	22.30	0-1	1
	2637.75	41068	15	16-QAM	36	0	21.21	0-2	2
	2637.75	41068	15	16-QAM	36	18	21.13	0-2	2
	2637.75	41068	15	16-QAM	36	37	21.09	0-2	2
	2637.75	41068	15	16-QAM	75	0	21.04	0-2	2
	2682.5	41515	15	QPSK	1	0	23.37	0	0
	2682.5	41515	15	QPSK	1	36	23.34	0	0
	2682.5	41515	15	QPSK	1	74	23.25	0	0
	2682.5	41515	15	QPSK	36	0	22.25	0-1	1
	2682.5	41515	15	QPSK	36	18	22.22	0-1	1
	2682.5	41515	15	QPSK	36	37	22.19	0-1	1
	2682.5	41515	15	QPSK	75	0	22.17	0-1	1
	2682.5	41515	15	16-QAM	1	0	22.41	0-1	1
	2682.5	41515	15	16-QAM	1	36	22.36	0-1	1
	2682.5	41515	15	16-QAM	1	74	22.34	0-1	1
	2682.5	41515	15	16-QAM	36	0	21.15	0-2	2
	2682.5	41515	15	16-QAM	36	18	21.18	0-2	2
	2682.5	41515	15	16-QAM	36	37	21.16	0-2	2
	2682.5	41515	15	16-QAM	75	0	21.08	0-2	2

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Table 8-23
LTE Band 41 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	2501	39700	10	QPSK	1	0	23.43	0	0
	2501	39700	10	QPSK	1	25	23.41	0	0
	2501	39700	10	QPSK	1	49	23.42	0	0
	2501	39700	10	QPSK	25	0	22.46	0-1	1
	2501	39700	10	QPSK	25	12	22.41	0-1	1
	2501	39700	10	QPSK	25	25	22.43	0-1	1
	2501	39700	10	QPSK	50	0	22.37	0-1	1
	2501	39700	10	16QAM	1	0	22.49	0-1	1
	2501	39700	10	16QAM	1	25	22.46	0-1	1
	2501	39700	10	16QAM	1	49	22.47	0-1	1
	2501	39700	10	16QAM	25	0	21.30	0-2	2
	2501	39700	10	16QAM	25	12	21.29	0-2	2
	2501	39700	10	16QAM	25	25	21.30	0-2	2
	2501	39700	10	16QAM	50	0	21.32	0-2	2
	2547	40160	10	QPSK	1	0	23.08	0	0
Low Mid	2547	40160	10	QPSK	1	25	23.09	0	0
	2547	40160	10	QPSK	1	49	23.06	0	0
	2547	40160	10	QPSK	25	0	22.10	0-1	1
	2547	40160	10	QPSK	25	12	22.03	0-1	1
	2547	40160	10	QPSK	25	25	22.08	0-1	1
	2547	40160	10	QPSK	50	0	21.96	0-1	1
	2547	40160	10	16-QAM	1	0	22.21	0-1	1
	2547	40160	10	16-QAM	1	25	22.15	0-1	1
	2547	40160	10	16-QAM	1	49	22.11	0-1	1
	2547	40160	10	16-QAM	25	0	20.96	0-2	2
	2547	40160	10	16-QAM	25	12	20.94	0-2	2
	2547	40160	10	16-QAM	25	25	20.97	0-2	2
	2547	40160	10	16-QAM	50	0	20.99	0-2	2
	2593	40620	10	QPSK	1	0	23.29	0	0
	2593	40620	10	QPSK	1	25	23.25	0	0
Mid	2593	40620	10	QPSK	1	49	23.22	0	0
	2593	40620	10	QPSK	25	0	22.35	0-1	1
	2593	40620	10	QPSK	25	12	22.31	0-1	1
	2593	40620	10	QPSK	25	25	22.30	0-1	1
	2593	40620	10	QPSK	50	0	22.24	0-1	1
	2593	40620	10	16-QAM	1	0	22.36	0-1	1
	2593	40620	10	16-QAM	1	25	22.38	0-1	1
	2593	40620	10	16-QAM	1	49	22.36	0-1	1
	2593	40620	10	16-QAM	25	0	21.14	0-2	2
	2593	40620	10	16-QAM	25	12	21.13	0-2	2
	2593	40620	10	16-QAM	25	25	21.11	0-2	2
	2593	40620	10	16-QAM	50	0	21.17	0-2	2
	2639	41080	10	QPSK	1	0	23.36	0	0
	2639	41080	10	QPSK	1	25	23.34	0	0
	2639	41080	10	QPSK	1	49	23.32	0	0
Mid High	2639	41080	10	QPSK	25	0	22.35	0-1	1
	2639	41080	10	QPSK	25	12	22.30	0-1	1
	2639	41080	10	QPSK	25	25	22.28	0-1	1
	2639	41080	10	QPSK	50	0	22.22	0-1	1
	2639	41080	10	16-QAM	1	0	22.50	0-1	1
	2639	41080	10	16-QAM	1	25	22.49	0-1	1
	2639	41080	10	16-QAM	1	49	22.45	0-1	1
	2639	41080	10	16-QAM	25	0	21.24	0-2	2
	2639	41080	10	16-QAM	25	12	21.21	0-2	2
	2639	41080	10	16-QAM	25	25	21.20	0-2	2
	2639	41080	10	16-QAM	50	0	21.22	0-2	2
	2685	41540	10	QPSK	1	0	23.35	0	0
	2685	41540	10	QPSK	1	25	23.32	0	0
	2685	41540	10	QPSK	1	49	23.33	0	0
	2685	41540	10	QPSK	25	0	22.29	0-1	1
High	2685	41540	10	QPSK	25	12	22.31	0-1	1
	2685	41540	10	QPSK	25	25	22.33	0-1	1
	2685	41540	10	QPSK	50	0	22.23	0-1	1
	2685	41540	10	16-QAM	1	0	22.41	0-1	1
	2685	41540	10	16-QAM	1	25	22.40	0-1	1
	2685	41540	10	16-QAM	1	49	22.39	0-1	1
	2685	41540	10	16-QAM	25	0	21.15	0-2	2
	2685	41540	10	16-QAM	25	12	21.14	0-2	2
	2685	41540	10	16-QAM	25	25	21.12	0-2	2
	2685	41540	10	16-QAM	50	0	21.18	0-2	2

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Table 8-24
LTE Band 41 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	2498.5	39675	5	QPSK	1	0	23.13	0	0
	2498.5	39675	5	QPSK	1	12	23.10	0	0
	2498.5	39675	5	QPSK	1	24	23.14	0	0
	2498.5	39675	5	QPSK	12	0	22.12	0-1	1
	2498.5	39675	5	QPSK	12	6	22.17	0-1	1
	2498.5	39675	5	QPSK	12	13	22.05	0-1	1
	2498.5	39675	5	QPSK	25	0	22.09	0-1	1
	2498.5	39675	5	16-QAM	1	0	21.99	0-1	1
	2498.5	39675	5	16-QAM	1	12	22.03	0-1	1
	2498.5	39675	5	16-QAM	1	24	21.96	0-1	1
	2498.5	39675	5	16-QAM	12	0	21.34	0-2	2
	2498.5	39675	5	16-QAM	12	6	21.35	0-2	2
	2498.5	39675	5	16-QAM	12	13	21.38	0-2	2
	2498.5	39675	5	16-QAM	25	0	21.10	0-2	2
	2545.75	40148	5	QPSK	1	0	22.91	0	0
	2545.75	40148	5	QPSK	1	12	22.83	0	0
Low Mid	2545.75	40148	5	QPSK	1	24	22.88	0	0
	2545.75	40148	5	QPSK	12	0	21.84	0-1	1
	2545.75	40148	5	QPSK	12	6	21.82	0-1	1
	2545.75	40148	5	QPSK	12	13	21.89	0-1	1
	2545.75	40148	5	QPSK	25	0	21.72	0-1	1
	2545.75	40148	5	16-QAM	1	0	22.33	0-1	1
	2545.75	40148	5	16-QAM	1	12	22.35	0-1	1
	2545.75	40148	5	16-QAM	1	24	22.31	0-1	1
	2545.75	40148	5	16-QAM	12	0	20.99	0-2	2
	2545.75	40148	5	16-QAM	12	6	21.03	0-2	2
	2545.75	40148	5	16-QAM	12	13	21.04	0-2	2
	2545.75	40148	5	16-QAM	25	0	20.90	0-2	2
Mid	2593	40620	5	QPSK	1	0	23.07	0	0
	2593	40620	5	QPSK	1	12	23.00	0	0
	2593	40620	5	QPSK	1	24	22.95	0	0
	2593	40620	5	QPSK	12	0	22.11	0-1	1
	2593	40620	5	QPSK	12	6	22.03	0-1	1
	2593	40620	5	QPSK	12	13	22.02	0-1	1
	2593	40620	5	QPSK	25	0	21.93	0-1	1
	2593	40620	5	16-QAM	1	0	22.50	0-1	1
	2593	40620	5	16-QAM	1	12	22.46	0-1	1
	2593	40620	5	16-QAM	1	24	22.43	0-1	1
	2593	40620	5	16-QAM	12	0	21.14	0-2	2
	2593	40620	5	16-QAM	12	6	21.11	0-2	2
	2593	40620	5	16-QAM	12	13	21.12	0-2	2
	2593	40620	5	16-QAM	25	0	21.00	0-2	2
	2640.25	41093	5	QPSK	1	0	22.94	0	0
	2640.25	41093	5	QPSK	1	12	22.91	0	0
Mid High	2640.25	41093	5	QPSK	1	24	22.89	0	0
	2640.25	41093	5	QPSK	12	0	22.05	0-1	1
	2640.25	41093	5	QPSK	12	6	22.00	0-1	1
	2640.25	41093	5	QPSK	12	13	22.02	0-1	1
	2640.25	41093	5	QPSK	25	0	21.93	0-1	1
	2640.25	41093	5	16-QAM	1	0	21.92	0-1	1
	2640.25	41093	5	16-QAM	1	12	21.83	0-1	1
	2640.25	41093	5	16-QAM	1	24	21.88	0-1	1
	2640.25	41093	5	16-QAM	12	0	21.18	0-2	2
	2640.25	41093	5	16-QAM	12	6	21.21	0-2	2
	2640.25	41093	5	16-QAM	12	13	21.15	0-2	2
	2640.25	41093	5	16-QAM	25	0	20.92	0-2	2
High	2687.5	41565	5	QPSK	1	0	23.13	0	0
	2687.5	41565	5	QPSK	1	12	23.05	0	0
	2687.5	41565	5	QPSK	1	24	23.03	0	0
	2687.5	41565	5	QPSK	12	0	22.09	0-1	1
	2687.5	41565	5	QPSK	12	6	22.11	0-1	1
	2687.5	41565	5	QPSK	12	13	22.00	0-1	1
	2687.5	41565	5	QPSK	25	0	21.92	0-1	1
	2687.5	41565	5	16-QAM	1	0	22.50	0-1	1
	2687.5	41565	5	16-QAM	1	12	22.49	0-1	1
	2687.5	41565	5	16-QAM	1	24	22.46	0-1	1
	2687.5	41565	5	16-QAM	12	0	21.14	0-2	2
	2687.5	41565	5	16-QAM	12	6	21.18	0-2	2
	2687.5	41565	5	16-QAM	12	13	21.16	0-2	2
	2687.5	41565	5	16-QAM	25	0	20.95	0-2	2

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LTE Band 41 Reduced Power

Table 8-25
LTE Band 41 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	2506	39750	20	QPSK	1	0	11.59	0	0
	2506	39750	20	QPSK	1	49	11.77	0	0
	2506	39750	20	QPSK	1	99	11.25	0	0
	2506	39750	20	QPSK	50	0	11.51	0-1	0
	2506	39750	20	QPSK	50	25	11.59	0-1	0
	2506	39750	20	QPSK	50	50	11.33	0-1	0
	2506	39750	20	QPSK	100	0	11.39	0-1	0
	2506	39750	20	16QAM	1	0	11.25	0-1	0
	2506	39750	20	16QAM	1	49	11.76	0-1	0
	2506	39750	20	16QAM	1	99	11.61	0-1	0
	2506	39750	20	16QAM	50	0	11.29	0-2	0
	2506	39750	20	16QAM	50	25	11.28	0-2	0
	2506	39750	20	16QAM	50	50	11.22	0-2	0
	2506	39750	20	16QAM	100	0	11.21	0-2	0
Low Mid	2549.5	40185	20	QPSK	1	0	11.32	0	0
	2549.5	40185	20	QPSK	1	49	11.81	0	0
	2549.5	40185	20	QPSK	1	99	11.20	0	0
	2549.5	40185	20	QPSK	50	0	11.50	0-1	0
	2549.5	40185	20	QPSK	50	25	11.73	0-1	0
	2549.5	40185	20	QPSK	50	50	11.61	0-1	0
	2549.5	40185	20	QPSK	100	0	11.56	0-1	0
	2549.5	40185	20	16-QAM	1	0	11.56	0-1	0
	2549.5	40185	20	16-QAM	1	49	12.05	0-1	0
	2549.5	40185	20	16-QAM	1	99	11.35	0-1	0
	2549.5	40185	20	16-QAM	50	0	11.36	0-2	0
	2549.5	40185	20	16-QAM	50	25	11.52	0-2	0
	2549.5	40185	20	16-QAM	50	50	11.38	0-2	0
	2549.5	40185	20	16-QAM	100	0	11.36	0-2	0
Mid	2593	40620	20	QPSK	1	0	11.21	0	0
	2593	40620	20	QPSK	1	49	11.63	0	0
	2593	40620	20	QPSK	1	99	11.20	0	0
	2593	40620	20	QPSK	50	0	11.26	0-1	0
	2593	40620	20	QPSK	50	25	11.47	0-1	0
	2593	40620	20	QPSK	50	50	11.24	0-1	0
	2593	40620	20	QPSK	100	0	11.25	0-1	0
	2593	40620	20	16-QAM	1	0	11.40	0-1	0
	2593	40620	20	16-QAM	1	49	11.80	0-1	0
	2593	40620	20	16-QAM	1	99	11.43	0-1	0
	2593	40620	20	16-QAM	50	0	11.42	0-2	0
	2593	40620	20	16-QAM	50	25	11.61	0-2	0
	2593	40620	20	16-QAM	50	50	11.24	0-2	0
	2593	40620	20	16-QAM	100	0	11.30	0-2	0
Mid High	2636.5	41055	20	QPSK	1	0	11.81	0	0
	2636.5	41055	20	QPSK	1	49	12.15	0	0
	2636.5	41055	20	QPSK	1	99	11.89	0	0
	2636.5	41055	20	QPSK	50	0	11.99	0-1	0
	2636.5	41055	20	QPSK	50	25	12.05	0-1	0
	2636.5	41055	20	QPSK	50	50	11.98	0-1	0
	2636.5	41055	20	QPSK	100	0	11.96	0-1	0
	2636.5	41055	20	16-QAM	1	0	11.88	0-1	0
	2636.5	41055	20	16-QAM	1	49	12.19	0-1	0
	2636.5	41055	20	16-QAM	1	99	12.04	0-1	0
	2636.5	41055	20	16-QAM	50	0	11.93	0-2	0
	2636.5	41055	20	16-QAM	50	25	12.00	0-2	0
	2636.5	41055	20	16-QAM	50	50	12.14	0-2	0
	2636.5	41055	20	16-QAM	100	0	11.97	0-2	0
High	2680	41490	20	QPSK	1	0	11.40	0	0
	2680	41490	20	QPSK	1	49	11.96	0	0
	2680	41490	20	QPSK	1	99	11.97	0	0
	2680	41490	20	QPSK	50	0	11.74	0-1	0
	2680	41490	20	QPSK	50	25	11.80	0-1	0
	2680	41490	20	QPSK	50	50	11.75	0-1	0
	2680	41490	20	QPSK	100	0	11.73	0-1	0
	2680	41490	20	16-QAM	1	0	11.93	0-1	0
	2680	41490	20	16-QAM	1	49	12.04	0-1	0
	2680	41490	20	16-QAM	1	99	12.01	0-1	0
	2680	41490	20	16-QAM	50	0	11.62	0-2	0
	2680	41490	20	16-QAM	50	25	11.70	0-2	0
	2680	41490	20	16-QAM	50	50	11.81	0-2	0
	2680	41490	20	16-QAM	100	0	11.77	0-2	0

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Table 8-26
LTE Band 41 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	2503.5	39725	15	QPSK	1	0	11.24	0	0
	2503.5	39725	15	QPSK	1	36	11.73	0	0
	2503.5	39725	15	QPSK	1	74	11.50	0	0
	2503.5	39725	15	QPSK	36	0	12.10	0-1	0
	2503.5	39725	15	QPSK	36	18	11.94	0-1	0
	2503.5	39725	15	QPSK	36	37	11.90	0-1	0
	2503.5	39725	15	QPSK	75	0	11.99	0-1	0
	2503.5	39725	15	16QAM	1	0	11.37	0-1	0
	2503.5	39725	15	16QAM	1	36	11.39	0-1	0
	2503.5	39725	15	16QAM	1	74	11.65	0-1	0
	2503.5	39725	15	16QAM	36	0	11.34	0-2	0
	2503.5	39725	15	16QAM	36	18	11.37	0-2	0
	2503.5	39725	15	16QAM	36	37	11.43	0-2	0
	2503.5	39725	15	16QAM	75	0	11.42	0-2	0
	2548.25	40173	15	QPSK	1	0	11.84	0	0
Low Mid	2548.25	40173	15	QPSK	1	36	11.87	0	0
	2548.25	40173	15	QPSK	1	74	11.67	0	0
	2548.25	40173	15	QPSK	36	0	11.78	0-1	0
	2548.25	40173	15	QPSK	36	18	11.85	0-1	0
	2548.25	40173	15	QPSK	36	37	11.83	0-1	0
	2548.25	40173	15	QPSK	75	0	11.84	0-1	0
	2548.25	40173	15	16-QAM	1	0	11.77	0-1	0
	2548.25	40173	15	16-QAM	1	36	11.84	0-1	0
	2548.25	40173	15	16-QAM	1	74	11.72	0-1	0
	2548.25	40173	15	16-QAM	36	0	11.74	0-2	0
	2548.25	40173	15	16-QAM	36	18	11.76	0-2	0
	2548.25	40173	15	16-QAM	36	37	11.71	0-2	0
	2548.25	40173	15	16-QAM	75	0	11.70	0-2	0
	2593	40620	15	QPSK	1	0	11.60	0	0
	2593	40620	15	QPSK	1	36	11.63	0	0
Mid	2593	40620	15	QPSK	1	74	11.54	0	0
	2593	40620	15	QPSK	36	0	11.71	0-1	0
	2593	40620	15	QPSK	36	18	11.73	0-1	0
	2593	40620	15	QPSK	36	37	11.71	0-1	0
	2593	40620	15	QPSK	75	0	11.67	0-1	0
	2593	40620	15	16-QAM	1	0	11.41	0-1	0
	2593	40620	15	16-QAM	1	36	11.61	0-1	0
	2593	40620	15	16-QAM	1	74	11.45	0-1	0
	2593	40620	15	16-QAM	36	0	11.73	0-2	0
	2593	40620	15	16-QAM	36	18	11.78	0-2	0
	2593	40620	15	16-QAM	36	37	11.59	0-2	0
	2593	40620	15	16-QAM	75	0	11.51	0-2	0
	2637.75	41068	15	QPSK	1	0	12.03	0	0
	2637.75	41068	15	QPSK	1	36	12.19	0	0
	2637.75	41068	15	QPSK	1	74	12.01	0	0
Mid High	2637.75	41068	15	QPSK	36	0	12.13	0-1	0
	2637.75	41068	15	QPSK	36	18	12.20	0-1	0
	2637.75	41068	15	QPSK	36	37	12.19	0-1	0
	2637.75	41068	15	QPSK	75	0	12.18	0-1	0
	2637.75	41068	15	16-QAM	1	0	11.99	0-1	0
	2637.75	41068	15	16-QAM	1	36	12.20	0-1	0
	2637.75	41068	15	16-QAM	1	74	11.90	0-1	0
	2637.75	41068	15	16-QAM	36	0	12.14	0-2	0
	2637.75	41068	15	16-QAM	36	18	12.16	0-2	0
	2637.75	41068	15	16-QAM	36	37	12.17	0-2	0
	2637.75	41068	15	16-QAM	75	0	12.19	0-2	0
	2682.5	41515	15	QPSK	1	0	11.98	0	0
	2682.5	41515	15	QPSK	1	36	11.94	0	0
	2682.5	41515	15	QPSK	1	74	11.90	0	0
	2682.5	41515	15	QPSK	36	0	11.81	0-1	0
High	2682.5	41515	15	QPSK	36	18	12.02	0-1	0
	2682.5	41515	15	QPSK	36	37	11.92	0-1	0
	2682.5	41515	15	QPSK	75	0	12.04	0-1	0
	2682.5	41515	15	16-QAM	1	0	12.03	0-1	0
	2682.5	41515	15	16-QAM	1	36	11.93	0-1	0
	2682.5	41515	15	16-QAM	1	74	11.89	0-1	0
	2682.5	41515	15	16-QAM	36	0	11.98	0-2	0
	2682.5	41515	15	16-QAM	36	18	11.84	0-2	0
	2682.5	41515	15	16-QAM	36	37	11.97	0-2	0
	2682.5	41515	15	16-QAM	75	0	11.92	0-2	0

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Table 8-27
LTE Band 41 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	2501	39700	10	QPSK	1	0	12.19	0	0
	2501	39700	10	QPSK	1	25	12.16	0	0
	2501	39700	10	QPSK	1	49	11.98	0	0
	2501	39700	10	QPSK	25	0	12.12	0-1	0
	2501	39700	10	QPSK	25	12	12.07	0-1	0
	2501	39700	10	QPSK	25	25	12.03	0-1	0
	2501	39700	10	QPSK	50	0	12.05	0-1	0
	2501	39700	10	16QAM	1	0	11.34	0-1	0
	2501	39700	10	16QAM	1	25	11.56	0-1	0
	2501	39700	10	16QAM	1	49	11.66	0-1	0
	2501	39700	10	16QAM	25	0	11.38	0-2	0
	2501	39700	10	16QAM	25	12	11.40	0-2	0
	2501	39700	10	16QAM	25	25	11.55	0-2	0
	2501	39700	10	16QAM	50	0	11.52	0-2	0
Low Mid	2547	40160	10	QPSK	1	0	11.87	0	0
	2547	40160	10	QPSK	1	25	11.93	0	0
	2547	40160	10	QPSK	1	49	11.74	0	0
	2547	40160	10	QPSK	25	0	11.94	0-1	0
	2547	40160	10	QPSK	25	12	11.87	0-1	0
	2547	40160	10	QPSK	25	25	11.88	0-1	0
	2547	40160	10	QPSK	50	0	11.87	0-1	0
	2547	40160	10	16-QAM	1	0	11.83	0-1	0
	2547	40160	10	16-QAM	1	25	11.93	0-1	0
	2547	40160	10	16-QAM	1	49	11.70	0-1	0
	2547	40160	10	16-QAM	25	0	11.77	0-2	0
	2547	40160	10	16-QAM	25	12	11.76	0-2	0
	2547	40160	10	16-QAM	25	25	11.77	0-2	0
	2547	40160	10	16-QAM	50	0	11.78	0-2	0
Mid	2593	40620	10	QPSK	1	0	11.48	0	0
	2593	40620	10	QPSK	1	25	11.71	0	0
	2593	40620	10	QPSK	1	49	11.42	0	0
	2593	40620	10	QPSK	25	0	11.65	0-1	0
	2593	40620	10	QPSK	25	12	11.67	0-1	0
	2593	40620	10	QPSK	25	25	11.72	0-1	0
	2593	40620	10	QPSK	50	0	11.70	0-1	0
	2593	40620	10	16-QAM	1	0	11.65	0-1	0
	2593	40620	10	16-QAM	1	25	12.11	0-1	0
	2593	40620	10	16-QAM	1	49	11.69	0-1	0
	2593	40620	10	16-QAM	25	0	11.58	0-2	0
	2593	40620	10	16-QAM	25	12	11.60	0-2	0
	2593	40620	10	16-QAM	25	25	11.61	0-2	0
	2593	40620	10	16-QAM	50	0	11.60	0-2	0
Mid High	2639	41080	10	QPSK	1	0	12.14	0	0
	2639	41080	10	QPSK	1	25	12.20	0	0
	2639	41080	10	QPSK	1	49	12.09	0	0
	2639	41080	10	QPSK	25	0	12.19	0-1	0
	2639	41080	10	QPSK	25	12	12.20	0-1	0
	2639	41080	10	QPSK	25	25	12.18	0-1	0
	2639	41080	10	QPSK	50	0	12.16	0-1	0
	2639	41080	10	16-QAM	1	0	12.13	0-1	0
	2639	41080	10	16-QAM	1	25	12.15	0-1	0
	2639	41080	10	16-QAM	1	49	12.10	0-1	0
	2639	41080	10	16-QAM	25	0	12.13	0-2	0
	2639	41080	10	16-QAM	25	12	12.18	0-2	0
	2639	41080	10	16-QAM	25	25	12.12	0-2	0
	2639	41080	10	16-QAM	50	0	12.17	0-2	0
High	2685	41540	10	QPSK	1	0	11.95	0	0
	2685	41540	10	QPSK	1	25	11.88	0	0
	2685	41540	10	QPSK	1	49	11.90	0	0
	2685	41540	10	QPSK	25	0	11.98	0-1	0
	2685	41540	10	QPSK	25	12	11.90	0-1	0
	2685	41540	10	QPSK	25	25	11.97	0-1	0
	2685	41540	10	QPSK	50	0	12.03	0-1	0
	2685	41540	10	16-QAM	1	0	12.01	0-1	0
	2685	41540	10	16-QAM	1	25	11.91	0-1	0
	2685	41540	10	16-QAM	1	49	11.87	0-1	0
	2685	41540	10	16-QAM	25	0	11.84	0-2	0
	2685	41540	10	16-QAM	25	12	11.80	0-2	0
	2685	41540	10	16-QAM	25	25	11.83	0-2	0
	2685	41540	10	16-QAM	50	0	11.96	0-2	0

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Table 8-28
LTE Band 41 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	2498.5	39675	5	QPSK	1	0	12.20	0	0
	2498.5	39675	5	QPSK	1	12	12.18	0	0
	2498.5	39675	5	QPSK	1	24	12.19	0	0
	2498.5	39675	5	QPSK	12	0	12.13	0-1	0
	2498.5	39675	5	QPSK	12	6	12.18	0-1	0
	2498.5	39675	5	QPSK	12	13	12.08	0-1	0
	2498.5	39675	5	QPSK	25	0	12.11	0-1	0
	2498.5	39675	5	16-QAM	1	0	12.10	0-1	0
	2498.5	39675	5	16-QAM	1	12	11.90	0-1	0
	2498.5	39675	5	16-QAM	1	24	11.95	0-1	0
	2498.5	39675	5	16-QAM	12	0	11.76	0-2	0
	2498.5	39675	5	16-QAM	12	6	11.70	0-2	0
	2498.5	39675	5	16-QAM	12	13	11.48	0-2	0
	2498.5	39675	5	16-QAM	25	0	11.43	0-2	0
	2545.75	40148	5	QPSK	1	0	11.73	0	0
	2545.75	40148	5	QPSK	1	12	11.67	0	0
Low Mid	2545.75	40148	5	QPSK	1	24	11.80	0	0
	2545.75	40148	5	QPSK	12	0	11.82	0-1	0
	2545.75	40148	5	QPSK	12	6	11.63	0-1	0
	2545.75	40148	5	QPSK	12	13	11.71	0-1	0
	2545.75	40148	5	QPSK	25	0	11.76	0-1	0
	2545.75	40148	5	16-QAM	1	0	12.16	0-1	0
	2545.75	40148	5	16-QAM	1	12	12.14	0-1	0
	2545.75	40148	5	16-QAM	1	24	12.12	0-1	0
	2545.75	40148	5	16-QAM	12	0	11.80	0-2	0
	2545.75	40148	5	16-QAM	12	6	11.71	0-2	0
	2545.75	40148	5	16-QAM	12	13	11.77	0-2	0
	2545.75	40148	5	16-QAM	25	0	11.69	0-2	0
Mid	2593	40620	5	QPSK	1	0	11.47	0	0
	2593	40620	5	QPSK	1	12	11.37	0	0
	2593	40620	5	QPSK	1	24	11.40	0	0
	2593	40620	5	QPSK	12	0	11.48	0-1	0
	2593	40620	5	QPSK	12	6	11.50	0-1	0
	2593	40620	5	QPSK	12	13	11.42	0-1	0
	2593	40620	5	QPSK	25	0	11.46	0-1	0
	2593	40620	5	16-QAM	1	0	11.91	0-1	0
	2593	40620	5	16-QAM	1	12	11.87	0-1	0
	2593	40620	5	16-QAM	1	24	11.75	0-1	0
	2593	40620	5	16-QAM	12	0	11.60	0-2	0
	2593	40620	5	16-QAM	12	6	11.59	0-2	0
	2593	40620	5	16-QAM	12	13	11.63	0-2	0
	2593	40620	5	16-QAM	25	0	11.60	0-2	0
	2640.25	41093	5	QPSK	1	0	12.20	0	0
	2640.25	41093	5	QPSK	1	12	12.15	0	0
Mid High	2640.25	41093	5	QPSK	1	24	12.06	0	0
	2640.25	41093	5	QPSK	12	0	12.13	0-1	0
	2640.25	41093	5	QPSK	12	6	12.17	0-1	0
	2640.25	41093	5	QPSK	12	13	12.07	0-1	0
	2640.25	41093	5	QPSK	25	0	12.11	0-1	0
	2640.25	41093	5	16-QAM	1	0	12.19	0-1	0
	2640.25	41093	5	16-QAM	1	12	12.13	0-1	0
	2640.25	41093	5	16-QAM	1	24	12.07	0-1	0
	2640.25	41093	5	16-QAM	12	0	12.20	0-2	0
	2640.25	41093	5	16-QAM	12	6	12.14	0-2	0
	2640.25	41093	5	16-QAM	12	13	12.15	0-2	0
	2640.25	41093	5	16-QAM	25	0	11.99	0-2	0
High	2687.5	41565	5	QPSK	1	0	11.93	0	0
	2687.5	41565	5	QPSK	1	12	11.71	0	0
	2687.5	41565	5	QPSK	1	24	12.00	0	0
	2687.5	41565	5	QPSK	12	0	11.81	0-1	0
	2687.5	41565	5	QPSK	12	6	11.94	0-1	0
	2687.5	41565	5	QPSK	12	13	11.87	0-1	0
	2687.5	41565	5	QPSK	25	0	11.99	0-1	0
	2687.5	41565	5	16-QAM	1	0	12.18	0-1	0
	2687.5	41565	5	16-QAM	1	12	12.20	0-1	0
	2687.5	41565	5	16-QAM	1	24	12.19	0-1	0
	2687.5	41565	5	16-QAM	12	0	11.78	0-2	0
	2687.5	41565	5	16-QAM	12	6	11.88	0-2	0
	2687.5	41565	5	16-QAM	12	13	11.92	0-2	0
	2687.5	41565	5	16-QAM	25	0	11.84	0-2	0

8.3 WLAN Conducted Powers

Table 8-29
Antenna 1 IEEE 802.11b Average RF Power

Mode	Freq [MHz]	Channel	802.11b (2.4 GHz) Conducted Power [dBm]			
			Data Rate [Mbps]			
			1	2	5.5	11
802.11b	2412	1*	13.75	13.92	14.01	14.02
802.11b	2437	6*	13.60	13.80	13.78	13.81
802.11b	2462	11*	13.80	14.04	14.00	13.99

Table 8-30
Antenna 1 IEEE 802.11g Average RF Power

Mode	Freq [MHz]	Channel	802.11g (2.4 GHz) Conducted Power [dBm]							
			Data Rate [Mbps]							
			6	9	12	18	24	36	48	54
802.11g	2412	1	12.21	12.19	12.11	12.15	12.48	12.36	12.49	12.39
802.11g	2437	6	12.01	12.06	11.94	11.96	12.27	12.15	12.37	12.23
802.11g	2462	11	12.38	12.38	12.34	12.31	12.48	12.45	11.90	12.47

Table 8-31
Antenna 1 IEEE 802.11n Average RF Power

Mode	Freq [MHz]	Channel	802.11n (2.4 GHz) Conducted Power [dBm]							
			Data Rate [Mbps]							
			6.5	13	20	26	39	52	58	65
802.11n	2412	1	12.02	12.12	12.14	12.42	12.19	12.40	12.39	12.37
802.11n	2437	6	12.05	11.92	11.90	12.17	12.07	12.22	12.16	12.21
802.11n	2462	11	12.27	12.25	12.30	12.43	12.48	12.48	11.64	11.70

Table 8-32
Antenna 1 IEEE 802.11a Average RF Power

Mode	Freq [MHz]	Channel	802.11a (5GHz) Conducted Power [dBm]							
			Data Rate [Mbps]							
			6	9	12	18	24	36	48	54
802.11a	5180	36*	9.32	8.49	9.34	8.46	8.83	8.63	8.96	8.74
802.11a	5200	40	9.24	8.48	9.27	9.23	8.63	8.58	8.87	8.57
802.11a	5220	44	9.34	8.45	9.25	9.33	8.60	8.58	8.86	8.54
802.11a	5240	48*	9.23	9.17	9.20	9.12	9.34	9.32	8.65	9.33
802.11a	5260	52*	9.16	9.07	9.09	9.10	9.32	9.24	8.45	9.23
802.11a	5280	56	8.93	8.92	8.96	8.96	9.26	9.07	9.26	9.20
802.11a	5300	60	8.85	8.92	8.78	8.86	9.10	8.88	9.18	8.95
802.11a	5320	64*	8.88	8.96	8.99	8.82	9.08	9.01	9.19	8.88
802.11a	5500	100	8.52	8.57	8.54	8.43	8.83	8.69	8.96	8.73
802.11a	5520	104*	8.43	8.57	8.52	8.41	8.68	8.58	8.96	8.67
802.11a	5540	108	8.42	8.58	8.44	8.45	8.55	8.68	8.69	8.53
802.11a	5560	112	8.43	8.50	8.36	8.46	8.63	8.46	8.73	8.72
802.11a	5580	116*	8.25	8.30	8.23	8.25	8.56	8.46	8.70	8.68
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	9.33	8.84	8.86	8.70	9.03	9.02	9.11	9.00
802.11a	5680	136*	8.66	8.61	8.78	8.59	8.75	8.69	9.04	8.71
802.11a	5700	140	8.53	8.50	8.57	8.31	8.84	8.67	9.02	8.70
802.11a	5745	149*	9.25	9.17	9.03	9.07	9.38	9.20	9.29	9.47
802.11a	5765	153	9.14	8.99	8.84	9.00	9.21	9.04	9.16	9.34
802.11a	5785	157*	9.21	9.11	9.07	9.00	9.37	9.16	9.25	9.46
802.11a	5805	161	9.18	9.12	8.93	8.98	9.32	9.10	9.24	9.39
802.11a	5825	165*	9.24	9.13	9.09	9.06	9.33	9.22	9.35	9.34

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.

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

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Table 8-33
Antenna 1 IEEE 802.11n Average RF Power – 20 MHz Bandwidth

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
802.11n	5180	36	9.00	9.12	9.13	9.29	9.38	9.30	9.40	9.28
802.11n	5200	40	9.07	9.18	9.25	9.37	9.47	9.38	9.42	9.34
802.11n	5220	44	9.11	9.25	9.25	9.36	9.34	9.41	9.34	9.48
802.11n	5240	48	9.17	9.28	9.26	9.43	9.39	9.47	9.30	9.47
802.11n	5260	52	8.93	8.96	9.11	9.27	9.21	9.17	9.30	9.13
802.11n	5280	56	9.09	9.12	9.34	9.37	9.37	9.31	9.30	9.28
802.11n	5300	60	8.94	8.99	9.12	9.27	9.25	9.10	9.29	9.16
802.11n	5320	64	8.74	8.71	8.99	9.04	8.95	9.00	9.07	8.96
802.11n	5500	100	9.23	9.23	8.87	8.64	8.52	8.52	8.59	8.49
802.11n	5520	104	9.25	9.20	8.77	8.77	8.57	8.50	8.66	8.51
802.11n	5540	108	9.06	9.13	9.13	8.44	8.31	8.30	8.40	8.17
802.11n	5560	112	9.01	8.99	9.02	8.42	8.22	8.20	8.33	8.27
802.11n	5580	116	9.22	9.20	8.77	8.51	8.38	8.41	8.49	8.40
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	8.85	8.83	8.85	8.25	8.03	8.12	8.17	8.06
802.11n	5680	136	9.00	9.03	9.03	8.35	8.18	8.21	8.25	8.26
802.11n	5700	140	8.95	8.99	8.90	8.32	8.12	8.11	8.19	8.14
802.11n	5745	149	9.10	9.04	9.10	9.26	9.33	9.23	9.35	9.33
802.11n	5765	153	8.98	8.92	9.04	9.16	9.25	9.10	9.14	9.22
802.11n	5785	157	8.94	8.81	9.00	9.14	9.15	9.05	9.22	9.17
802.11n	5805	161	9.10	9.10	9.11	9.21	9.26	9.19	9.30	9.28
802.11n	5825	165	8.94	8.88	8.97	9.12	9.17	9.03	9.18	9.16

Table 8-34
Antenna 1 IEEE 802.11n Average RF Power – 40 MHz Bandwidth

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
802.11n	5190	38	9.34	9.22	9.49	9.32	9.43	9.31	9.26	9.25
802.11n	5230	46	9.40	9.25	9.30	9.27	9.25	9.31	9.39	9.39
802.11n	5270	54	9.40	9.31	9.31	9.28	9.32	9.28	9.38	9.37
802.11n	5310	62	9.31	9.35	9.34	9.25	9.26	9.36	9.27	9.31
802.11n	5510	102	9.46	9.34	9.43	9.01	8.99	9.00	9.03	9.22
802.11n	5550	110	9.36	9.29	9.39	8.57	8.59	8.63	8.61	8.87
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	9.22	9.21	9.14	8.50	8.48	8.50	8.57	8.68
802.11n	5755	151	8.51	8.62	8.58	8.81	7.83	7.80	7.97	7.81
802.11n	5795	159	8.56	8.64	8.66	8.84	7.86	7.88	8.01	7.87

Table 8-35
Antenna 1 IEEE 802.11ac Average RF Power – 80 MHz Bandwidth

Mode	Freq	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
802.11ac	5210	42	8.89	8.98	9.02	9.01	8.88	9.01	9.00	9.11	9.13	9.12
802.11ac	5290	58	8.80	8.77	8.75	8.77	8.75	8.74	8.75	8.80	8.89	8.90
802.11ac	5530	106	9.11	8.77	8.34	8.32	8.30	8.31	8.77	8.78	9.10	9.09
802.11ac	5775	155	8.96	8.93	9.17	9.15	9.15	9.14	9.19	9.20	9.15	9.14

Table 8-36
Antenna 2 IEEE 802.11b Average RF Power

Mode	Freq [MHz]	Channel	802.11b (2.4 GHz) Conducted Power [dBm]			
			Data Rate [Mbps]			
			1	2	5.5	11
802.11b	2412	1*	14.22	14.35	14.46	14.42
802.11b	2437	6*	13.75	13.87	13.83	13.80
802.11b	2462	11*	14.06	14.35	14.27	14.24

Table 8-37
Antenna 2 IEEE 802.11g Average RF Power

Mode	Freq	Channel	802.11g (2.4 GHz) Conducted Power [dBm]							
	[MHz]		Data Rate [Mbps]							
			6	9	12	18	24	36	48	54
802.11g	2412	1	12.14	12.25	12.13	12.14	12.47	12.23	12.30	12.49
802.11g	2437	6	12.01	12.04	11.78	11.83	12.21	12.07	12.28	12.12
802.11g	2462	11	12.45	12.49	12.31	12.35	11.83	12.42	12.46	12.03

Table 8-38
Antenna 2 IEEE 802.11n Average RF Power

Mode	Freq [MHz]	Channel	802.11n (2.4 GHz) Conducted Power [dBm]							
			Data Rate [Mbps]							
			6.5	13	20	26	39	52	58	65
802.11n	2412	1	12.26	12.21	12.17	12.37	12.37	12.35	12.33	12.36
802.11n	2437	6	11.99	11.99	11.98	12.14	12.24	12.06	12.19	12.14
802.11n	2462	11	12.42	12.44	12.39	11.75	11.78	11.65	12.49	12.43

Table 8-39
Antenna 2 IEEE 802.11a Average RF Power

Mode	Freq [MHz]	Channel	802.11a (5GHz) Conducted Power [dBm]							
			Data Rate [Mbps]							
			6	9	12	18	24	36	48	54
802.11a	5180	36*	8.83	8.79	8.70	8.67	8.97	8.68	8.93	9.06
802.11a	5200	40	8.89	8.95	8.76	8.71	9.07	8.96	8.85	9.16
802.11a	5220	44	8.98	8.96	8.86	8.92	9.30	8.92	9.06	9.23
802.11a	5240	48*	9.09	9.14	9.00	8.96	9.27	8.95	9.20	9.05
802.11a	5260	52*	9.01	8.92	9.00	8.78	9.13	8.91	9.00	9.25
802.11a	5280	56	9.13	9.19	9.02	8.84	9.32	9.09	9.18	9.32
802.11a	5300	60	9.04	9.10	8.82	8.94	9.08	9.21	9.16	9.06
802.11a	5320	64*	9.10	9.07	8.98	9.05	9.28	9.08	9.25	9.13
802.11a	5500	100	8.95	9.16	9.00	8.84	9.28	9.02	9.23	9.33
802.11a	5520	104*	9.20	9.15	8.94	8.97	9.14	8.97	9.17	9.21
802.11a	5540	108	8.99	8.93	9.03	8.97	9.24	9.01	9.10	9.22
802.11a	5560	112	8.97	9.04	8.90	8.86	9.21	8.88	9.20	9.19
802.11a	5580	116*	8.95	8.99	8.80	8.72	9.05	8.91	9.17	9.15
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	8.81	8.90	8.82	8.68	9.06	8.88	8.90	9.16
802.11a	5680	136*	8.80	8.89	8.67	8.66	9.06	8.84	8.93	9.12
802.11a	5700	140	8.83	8.80	8.68	8.67	9.08	8.82	8.84	9.06
802.11a	5745	149*	8.87	8.82	8.78	8.73	9.11	8.86	9.08	9.06
802.11a	5765	153	8.85	8.90	8.65	8.58	8.95	8.84	9.05	9.02
802.11a	5785	157*	8.92	8.97	8.78	8.82	9.10	8.91	8.89	9.07
802.11a	5805	161	8.71	8.75	8.79	8.60	9.07	8.89	8.85	9.08
802.11a	5825	165*	8.72	8.81	8.64	8.67	8.93	8.89	8.88	9.08

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

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

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Table 8-40
Antenna 2 IEEE 802.11n Average RF Power – 20 MHz Bandwidth

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
802.11n	5180	36	8.94	8.82	8.98	9.05	9.16	9.04	9.20	9.21
802.11n	5200	40	9.05	9.05	9.11	9.21	9.25	9.06	9.23	9.27
802.11n	5220	44	9.02	9.16	9.21	9.24	9.27	9.18	9.23	9.24
802.11n	5240	48	9.23	9.24	9.17	9.28	9.22	9.19	9.20	9.20
802.11n	5260	52	8.95	8.95	8.96	9.16	9.13	8.73	8.64	8.71
802.11n	5280	56	9.04	8.90	9.06	9.13	9.26	8.67	8.69	8.73
802.11n	5300	60	9.10	9.08	9.12	9.36	9.27	8.74	8.74	8.74
802.11n	5320	64	9.19	9.08	9.19	9.29	9.28	8.67	8.72	8.69
802.11n	5500	100	9.33	9.31	9.29	9.24	9.26	8.64	8.62	8.64
802.11n	5520	104	9.39	9.20	9.21	9.23	9.28	8.66	8.59	8.69
802.11n	5540	108	9.33	9.20	9.31	9.24	9.23	8.59	8.61	8.64
802.11n	5560	112	9.40	9.28	9.23	9.23	9.21	8.73	8.65	8.69
802.11n	5580	116	9.18	9.28	9.24	9.20	9.33	8.59	8.57	8.67
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	9.25	9.24	9.15	9.28	9.21	8.62	8.67	8.66
802.11n	5680	136	9.07	9.20	9.20	9.24	9.23	8.76	8.64	8.62
802.11n	5700	140	9.06	8.98	9.16	9.22	9.25	8.62	8.69	8.68
802.11n	5745	149	8.82	8.69	8.78	8.86	8.94	8.96	9.04	9.03
802.11n	5765	153	8.88	8.69	8.75	8.86	8.80	9.08	9.07	9.04
802.11n	5785	157	8.81	8.68	8.62	8.98	8.90	9.06	9.01	9.03
802.11n	5805	161	8.79	8.74	8.71	8.91	9.07	9.06	8.97	8.78
802.11n	5825	165	8.76	8.62	8.65	9.02	8.90	8.99	9.04	9.05

Table 8-41
Antenna 2 IEEE 802.11n Average RF Power – 40 MHz Bandwidth

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
802.11n	5190	38	9.19	9.28	9.27	9.23	9.24	9.24	9.21	9.20
802.11n	5230	46	9.25	9.22	9.23	9.33	9.32	9.27	9.21	9.28
802.11n	5270	54	9.23	9.15	9.11	9.21	9.23	9.08	9.14	9.15
802.11n	5310	62	9.34	8.88	9.05	9.17	9.18	9.22	9.09	9.12
802.11n	5510	102	9.20	8.78	9.14	9.20	9.22	9.22	9.20	9.18
802.11n	5550	110	9.28	9.04	9.06	9.13	9.07	9.07	9.11	9.14
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	9.27	9.27	9.27	9.34	9.32	9.30	9.35	9.32
802.11n	5755	151	9.11	9.02	9.04	9.01	9.05	9.03	9.10	9.05
802.11n	5795	159	9.15	9.12	9.06	9.06	9.07	9.13	9.01	9.13

Table 8-42
Antenna 2 IEEE 802.11ac Average RF Power – 80 MHz Bandwidth

Mode	Freq	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
802.11ac	5210	42	8.51	8.21	8.25	8.51	8.55	8.63	8.60	8.66	8.67	8.68
802.11ac	5290	58	8.62	8.22	8.23	8.53	8.64	8.56	8.56	8.62	8.84	8.86
802.11ac	5530	106	8.68	8.45	8.51	8.74	8.86	8.76	8.82	8.74	8.71	8.72
802.11ac	5775	155	8.58	8.43	8.35	8.63	8.80	8.82	8.80	8.68	8.69	8.70

Table 8-43
MIMO IEEE 802.11n Average RF Power

Mode	Freq	Channel	802.11n (2.4 GHz)
			Conducted Power [dBm]
	[MHz]		Data Rate [Mbps]
			13
802.11n	2412	1	16.58
802.11n	2437	6	17.08
802.11n	2462	11	16.51

Table 8-44
MIMO IEEE 802.11n Average RF Power – 20 MHz Bandwidth

Mode	Freq	Channel	20MHz BW 802.11n (5GHz)
			Conducted Power [dBm]
	[MHz]		Data Rate [Mbps]
			13
802.11n	5180	36	10.92
802.11n	5200	40	11.07
802.11n	5220	44	11.05
802.11n	5240	48	10.99
802.11n	5260	52	10.84
802.11n	5280	56	10.93
802.11n	5300	60	10.85
802.11n	5320	64	10.83
802.11n	5500	100	10.85
802.11n	5520	104	10.89
802.11n	5540	108	10.93
802.11n	5560	112	10.77
802.11n	5580	116	10.86
802.11n	5600	120	N/A
802.11n	5620	124	N/A
802.11n	5640	128	N/A
802.11n	5660	132	10.87
802.11n	5680	136	10.67
802.11n	5700	140	10.78
802.11n	5745	149	10.92
802.11n	5765	153	10.94
802.11n	5785	157	10.95
802.11n	5805	161	10.89
802.11n	5825	165	11.09

Table 8-45
MIMO IEEE 802.11n Average RF Power – 40 MHz Bandwidth

Mode	Freq	Channel	40MHz BW 802.11n (5GHz)
			Conducted Power [dBm]
	[MHz]		Data Rate [Mbps]
			27
802.11n	5190	38	10.73
802.11n	5230	46	10.94
802.11n	5270	54	10.91
802.11n	5310	62	10.87
802.11n	5510	102	10.84
802.11n	5550	110	10.66
802.11n	5590	118	N/A
802.11n	5630	126	N/A
802.11n	5670	134	11.07
802.11n	5755	151	10.76
802.11n	5795	159	10.82

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Table 8-46
MIMO IEEE 802.11ac Average RF Power – 80 MHz Bandwidth

Mode	Freq	Channel	80MHz BW 802.11ac (5GHz)
			Conducted Power [dBm]
			Data Rate [Mbps]
			58.5
802.11ac	5210	42	11.24
802.11ac	5290	58	11.12
802.11ac	5530	106	11.06
802.11ac	5775	155	10.90

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.
- For SISO 5 GHz, highest average RF output power channel for the lowest data rate for IEEE 802.11a were selected for SAR evaluation. Other IEEE 802.11 modes (including 802.11n 20 and 40 MHz Bandwidth) 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 802.11a mode.
- Per April 2013 TCB Workshop notes, full SAR tests for SISO IEEE 802.11ac configurations were not required because the average output power was not more than 0.25 dB higher than IEEE 802.11a mode. IEEE 802.11ac was evaluated for the highest IEEE 802.11a position in each 5 GHz band and exposure condition.
- For MIMO 5 GHz, highest average RF output power channel for the lowest data rate for IEEE 802.11n was selected for SAR evaluation.
- 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.

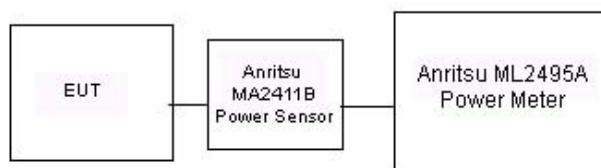


Figure 8-2
Power Measurement Setup for Bandwidths < 50 MHz

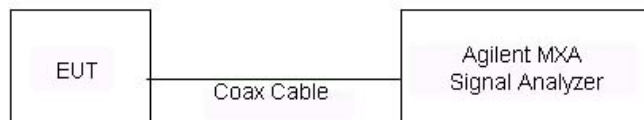


Figure 8-3
Power Measurement Setup for Bandwidths > 50 MHz

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8.4 Bluetooth Conducted Powers

Table 9-24
Bluetooth RF Conducted Powers

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	7.92	6.187
2441	1.0	39	11.16	13.063
2480	1.0	78	11.35	13.661
2402	2.0	0	4.75	2.983
2441	2.0	39	8.46	7.013
2480	2.0	78	7.49	5.612
2402	3.0	0	4.81	3.028
2441	3.0	39	8.50	7.088
2480	3.0	78	7.54	5.672

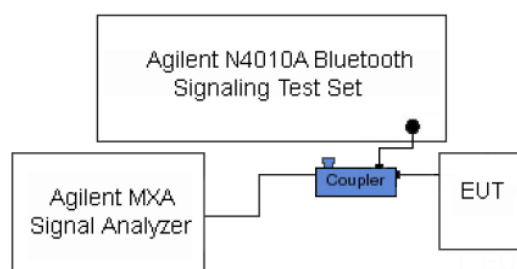


Figure 8-4
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (C°)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
6/16/2014	835B	22.7	815	0.975	53.914	0.968	55.278	0.68%	-2.47%
			820	0.979	53.825	0.969	55.258	1.03%	-2.59%
			835	0.994	53.720	0.970	55.200	2.47%	-2.68%
			850	1.009	53.540	0.988	55.154	2.13%	-2.93%
6/12/2014	1900B	24.0	1850	1.445	51.657	1.520	53.300	-4.93%	-3.08%
			1880	1.476	51.517	1.520	53.300	-2.89%	-3.35%
			1910	1.510	51.440	1.520	53.300	-0.66%	-3.49%
7/7/2014	1900B	21.9	1850	1.482	52.864	1.520	53.300	-2.50%	-0.82%
			1880	1.517	52.721	1.520	53.300	-0.20%	-1.09%
			1910	1.555	52.618	1.520	53.300	2.30%	-1.28%
6/16/2014	2450B	22.8	2600	2.231	51.504	2.163	52.509	3.14%	-1.91%
			2650	2.302	51.214	2.234	52.445	3.04%	-2.35%
			2700	2.377	51.022	2.305	52.382	3.12%	-2.60%
6/24/2014	2450B	21.4	2401	1.884	51.852	1.903	52.765	-1.00%	-1.73%
			2450	1.949	51.693	1.950	52.700	-0.05%	-1.91%
			2499	2.011	51.517	2.019	52.638	-0.40%	-2.13%
06/23/2014	5200B-5800B	23.0	5180	5.477	47.362	5.276	49.041	3.81%	-3.42%
			5200	5.500	47.385	5.299	49.014	3.79%	-3.32%
			5220	5.514	47.317	5.323	48.987	3.59%	-3.41%
			5240	5.537	47.264	5.346	48.960	3.57%	-3.46%
			5260	5.557	47.241	5.369	48.933	3.50%	-3.46%
			5280	5.604	47.152	5.393	48.906	3.91%	-3.59%
			5300	5.620	47.117	5.416	48.879	3.77%	-3.60%
			5320	5.654	47.153	5.439	48.851	3.95%	-3.48%
			5500	5.873	46.816	5.650	48.607	3.95%	-3.68%
			5520	5.904	46.788	5.673	48.580	4.07%	-3.69%
			5540	5.938	46.757	5.696	48.553	4.25%	-3.70%
			5560	5.964	46.725	5.720	48.526	4.27%	-3.71%
			5580	5.996	46.729	5.743	48.499	4.41%	-3.65%
			5600	6.009	46.678	5.766	48.471	4.21%	-3.70%
			5660	6.100	46.557	5.837	48.390	4.51%	-3.79%
			5700	6.150	46.543	5.883	48.336	4.54%	-3.71%
			5745	6.202	46.392	5.936	48.275	4.48%	-3.90%
			5765	6.234	46.367	5.959	48.248	4.61%	-3.90%
			5785	6.270	46.342	5.982	48.220	4.81%	-3.89%
			5800	6.287	46.323	6.000	48.200	4.78%	-3.89%
			5825	6.310	46.300	6.029	48.166	4.66%	-3.87%

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

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9.2 Test System Verification

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

Table 9-2
System Verification Results

System Verification TARGET & MEASURED												
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date:	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Dipole SN	Probe SN	Measured SAR _{1g} (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)
J	835	BODY	06/16/2014	22.3	22.3	0.100	4d119	3332	0.997	9.340	9.970	6.75%
B	1900	BODY	06/12/2014	24.5	24.0	0.100	5d148	3288	4.030	39.300	40.300	2.54%
B	1900	BODY	07/07/2014	22.4	22.1	0.100	5d148	3288	3.990	39.300	39.900	1.53%
C	2450	BODY	06/24/2014	20.9	21.4	0.100	719	3213	5.360	51.700	53.600	3.68%
H	2600	BODY	06/16/2014	23.2	22.9	0.100	1004	3319	6.060	56.700	60.600	6.88%
A	5200	BODY	06/23/2014	22.5	23.0	0.100	1007	3920	7.350	72.600	73.500	1.24%
A	5300	BODY	06/23/2014	22.6	23.0	0.100	1007	3920	7.220	74.700	72.200	-3.35%
A	5500	BODY	06/23/2014	22.6	23.0	0.100	1007	3920	7.530	75.900	75.300	-0.79%
A	5600	BODY	06/23/2014	22.6	23.0	0.100	1007	3920	7.840	77.300	78.400	1.42%
A	5800	BODY	06/23/2014	22.6	22.9	0.100	1007	3920	7.060	72.900	70.600	-3.16%

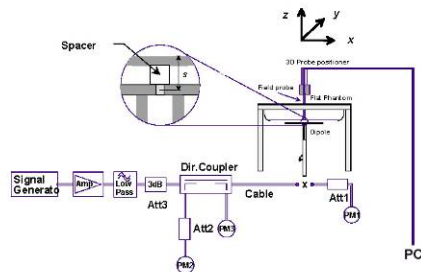


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 Standalone Body SAR Data

Table 10-1
CDMA Body SAR Data

MEASUREMENT RESULTS														
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	25.0	24.45	0.16	21 mm	FCC #1	1:1	back	0.060	1.135	0.068	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	25.0	24.45	-0.08	19 mm	FCC #1	1:1	top	0.029	1.135	0.033	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	18.0	17.82	-0.06	0 mm	FCC #4	1:1	back	0.798	1.042	0.832	A1
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	18.0	17.82	-0.08	0 mm	FCC #4	1:1	top	0.453	1.042	0.472	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	25.0	24.45	0.09	0 mm	FCC #1	1:1	right	0.143	1.135	0.162	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	25.0	24.45	0.00	21 mm	FCC #1	1:1	back	0.071	1.135	0.081	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	25.0	24.45	0.21	19 mm	FCC #1	1:1	top	0.081	1.135	0.092	
824.70	1013	CDMA BC0 (\$22H)	EVDO Rev. 0	18.0	17.73	0.10	0 mm	FCC #4	1:1	back	0.827	1.064	0.880	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	18.0	17.53	-0.08	0 mm	FCC #4	1:1	back	0.789	1.114	0.879	
848.31	777	CDMA BC0 (\$22H)	EVDO Rev. 0	18.0	17.59	-0.06	0 mm	FCC #4	1:1	back	0.844	1.099	0.928	A2
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	18.0	17.53	-0.16	0 mm	FCC #4	1:1	top	0.389	1.114	0.433	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	25.0	24.45	0.09	0 mm	FCC #1	1:1	right	0.117	1.135	0.133	
848.31	777	CDMA BC0 (\$22H)	EVDO Rev. 0	18.0	17.59	-0.12	0 mm	FCC #4	1:1	back	0.792	1.099	0.870	
1880.00	600	PCS CDMA	EVDO Rev. 0	25.0	24.47	0.12	21 mm	FCC #1	1:1	back	0.250	1.130	0.283	
1880.00	600	PCS CDMA	EVDO Rev. 0	25.0	24.47	0.13	19 mm	FCC #1	1:1	top	0.312	1.130	0.353	
1851.25	25	PCS CDMA	EVDO Rev. 0	13.0	12.53	0.02	0 mm	FCC #4	1:1	back	0.783	1.114	0.872	
1880.00	600	PCS CDMA	EVDO Rev. 0	13.0	12.53	0.12	0 mm	FCC #4	1:1	back	0.830	1.114	0.925	A3
1908.75	1175	PCS CDMA	EVDO Rev. 0	13.0	11.93	-0.14	0 mm	FCC #4	1:1	back	0.803	1.279	1.027	
1851.25	25	PCS CDMA	EVDO Rev. 0	13.0	12.53	-0.04	0 mm	FCC #4	1:1	top	0.530	1.114	0.590	
1880.00	600	PCS CDMA	EVDO Rev. 0	25.0	24.47	0.10	0 mm	FCC #1	1:1	right	0.067	1.130	0.076	
1880.00	600	PCS CDMA	EVDO Rev. 0	13.0	12.53	0.01	0 mm	FCC #4	1:1	back	0.810	1.114	0.902	
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 entries represent variability data.

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Table 10-2
LTE Band 26 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)		
844.00	26990	High	LTE Band 26	10	16.5	16.48	0.03	0	FCC #3	QPSK	1	25	0 mm	back	1:1	0.065	1.005	0.065	
844.00	26990	High	LTE Band 26	10	16.5	16.50	-0.03	0	FCC #3	QPSK	25	12	0 mm	back	1:1	0.069	1.000	0.069	
844.00	26990	High	LTE Band 26	10	16.5	16.48	0.20	0	FCC #3	QPSK	1	25	0 mm	top	1:1	0.031	1.005	0.031	
844.00	26990	High	LTE Band 26	10	16.5	16.50	0.08	0	FCC #3	QPSK	25	12	0 mm	top	1:1	0.033	1.000	0.033	
819.00	26740	Low	LTE Band 26	10	23.5	23.41	0.01	0	FCC #2	QPSK	1	0	0 mm	right	1:1	0.246	1.021	0.251	A4
819.00	26740	Low	LTE Band 26	10	22.5	22.28	0.00	1	FCC #2	QPSK	25	0	0 mm	right	1:1	0.179	1.052	0.188	
819.00	26740	Low	LTE Band 26	10	23.5	23.41	0.02	0	FCC #2	QPSK	1	0	21 mm	back	1:1	0.083	1.021	0.085	
819.00	26740	Low	LTE Band 26	10	22.5	22.28	0.09	1	FCC #2	QPSK	25	0	21 mm	back	1:1	0.065	1.052	0.068	
819.00	26740	Low	LTE Band 26	10	23.5	23.41	0.06	0	FCC #2	QPSK	1	0	19 mm	top	1:1	0.051	1.021	0.052	
819.00	26740	Low	LTE Band 26	10	22.5	22.28	0.06	1	FCC #2	QPSK	25	0	19 mm	top	1:1	0.043	1.052	0.045	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-3
LTE Band 25 (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)		
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.0	11.85	0.05	0	FCC #8	QPSK	1	50	0 mm	back	1:1	0.386	1.035	0.400	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.0	11.71	0.14	0	FCC #8	QPSK	50	0	0 mm	back	1:1	0.484	1.069	0.517	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.0	11.85	0.06	0	FCC #8	QPSK	1	50	0 mm	top	1:1	0.302	1.035	0.313	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.0	11.71	0.16	0	FCC #8	QPSK	50	0	0 mm	top	1:1	0.270	1.069	0.289	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.5	23.48	0.04	0	FCC #2	QPSK	1	99	0 mm	right	1:1	0.115	1.005	0.116	
1905.00	26590	High	LTE Band 25 (PCS)	20	22.5	22.33	0.11	1	FCC #2	QPSK	50	25	0 mm	right	1:1	0.101	1.040	0.105	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.5	23.48	-0.03	0	FCC #2	QPSK	1	99	21 mm	back	1:1	0.717	1.005	0.721	A5
1905.00	26590	High	LTE Band 25 (PCS)	20	22.5	22.33	0.00	1	FCC #2	QPSK	50	25	21 mm	back	1:1	0.476	1.040	0.495	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.5	23.48	0.00	0	FCC #2	QPSK	1	99	19 mm	top	1:1	0.504	1.005	0.507	
1905.00	26590	High	LTE Band 25 (PCS)	20	22.5	22.33	0.06	1	FCC #2	QPSK	50	25	19 mm	top	1:1	0.426	1.040	0.443	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body											
Spatial Peak								1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 1 gram											

Table 10-4
LTE Band 41 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)		
2636.50	41055	Mid-High	LTE Band 41	20	12.2	12.15	-0.20	0	FCC #8	QPSK	1	49	0 mm	back	1:1.58	0.424	1.012	0.429	A6
2636.50	41055	Mid-High	LTE Band 41	20	12.2	12.05	0.11	0	FCC #8	QPSK	50	25	0 mm	back	1:1.58	0.422	1.035	0.437	
2636.50	41055	Mid-High	LTE Band 41	20	12.2	12.15	0.09	0	FCC #8	QPSK	1	49	0 mm	top	1:1.58	0.259	1.012	0.262	
2636.50	41055	Mid-High	LTE Band 41	20	12.2	12.05	0.09	0	FCC #8	QPSK	50	25	0 mm	top	1:1.58	0.258	1.035	0.267	
2680.00	41490	High	LTE Band 41	20	23.5	23.50	0.00	0	FCC #2	QPSK	1	0	0 mm	right	1:1.58	0.404	1.000	0.404	
2680.00	41490	High	LTE Band 41	20	22.5	22.21	-0.01	1	FCC #2	QPSK	50	0	0 mm	right	1:1.58	0.307	1.069	0.328	
2680.00	41490	High	LTE Band 41	20	23.5	23.50	0.02	0	FCC #2	QPSK	1	0	21 mm	back	1:1.58	0.240	1.000	0.240	
2680.00	41490	High	LTE Band 41	20	22.5	22.21	0.00	1	FCC #2	QPSK	50	0	21 mm	back	1:1.58	0.182	1.069	0.195	
2680.00	41490	High	LTE Band 41	20	23.5	23.50	0.02	0	FCC #2	QPSK	1	0	19 mm	top	1:1.58	0.355	1.000	0.355	
2680.00	41490	High	LTE Band 41	20	22.5	22.21	0.02	1	FCC #2	QPSK	50	0	19 mm	top	1:1.58	0.267	1.069	0.285	
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 10-5
Antenna 1 DTS Body SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Num ber	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	14.5	13.75	-0.20	0 mm	FCC #7	1	back	1:1	0.409	1.189	0.486	
2437	6	IEEE 802.11b	DSSS	14.5	13.60	0.02	0 mm	FCC #7	1	back	1:1	0.390	1.230	0.480	
2462	11	IEEE 802.11b	DSSS	14.5	13.80	-0.01	0 mm	FCC #7	1	back	1:1	0.498	1.175	0.585	
2462	11	IEEE 802.11b	DSSS	14.5	13.80	0.06	0 mm	FCC #7	1	top	1:1	0.161	1.175	0.189	
2462	11	IEEE 802.11b	DSSS	14.5	13.80	0.21	0 mm	FCC #7	1	left	1:1	0.025	1.175	0.029	
5745	149	IEEE 802.11a	OFDM	9.5	9.25	0.05	0 mm	FCC #7	6	back	1:1	0.680	1.059	0.720	
5785	157	IEEE 802.11a	OFDM	9.5	9.21	0.00	0 mm	FCC #7	6	back	1:1	0.708	1.069	0.757	
5825	165	IEEE 802.11a	OFDM	9.5	9.24	0.03	0 mm	FCC #7	6	back	1:1	0.733	1.062	0.778	A8
5775	155	IEEE 802.11ac	OFDM	9.5	8.96	-0.01	0 mm	FCC #7	29.3	back	1:1	0.535	1.132	0.606	
5745	149	IEEE 802.11a	OFDM	9.5	9.25	0.13	0 mm	FCC #7	6	top	1:1	0.035	1.059	0.037	
5745	149	IEEE 802.11a	OFDM	9.5	9.25	0.14	0 mm	FCC #7	6	left	1:1	0.024	1.059	0.025	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 10-6
Antenna 1 NII 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)	
5180	36	IEEE 802.11a	OFDM	9.5	9.32	0.16	0 mm	FCC #7	6	back	1:1	0.252	1.042	0.263	
5220	44	IEEE 802.11a	OFDM	9.5	9.34	0.05	0 mm	FCC #7	6	back	1:1	0.236	1.038	0.245	
5210	42	IEEE 802.11ac	OFDM	9.5	8.89	0.13	0 mm	FCC #7	29.3	back	1:1	0.181	1.151	0.208	
5220	44	IEEE 802.11a	OFDM	9.5	9.34	-0.20	0 mm	FCC #7	6	top	1:1	0.037	1.038	0.038	
5220	44	IEEE 802.11a	OFDM	9.5	9.34	-0.16	0 mm	FCC #7	6	left	1:1	0.022	1.038	0.023	
5260	52	IEEE 802.11a	OFDM	9.5	9.16	-0.03	0 mm	FCC #7	6	back	1:1	0.242	1.081	0.262	
5320	64	IEEE 802.11a	OFDM	9.5	8.88	0.02	0 mm	FCC #7	6	back	1:1	0.267	1.153	0.308	
5290	58	IEEE 802.11ac	OFDM	9.5	8.80	0.06	0 mm	FCC #7	29.3	back	1:1	0.215	1.175	0.253	
5260	52	IEEE 802.11a	OFDM	9.5	9.16	0.11	0 mm	FCC #7	6	top	1:1	0.035	1.081	0.038	
5260	52	IEEE 802.11a	OFDM	9.5	9.16	-0.20	0 mm	FCC #7	6	left	1:1	0.022	1.081	0.024	
5500	100	IEEE 802.11a	OFDM	9.5	8.52	0.10	0 mm	FCC #7	6	back	1:1	0.353	1.253	0.442	
5560	112	IEEE 802.11a	OFDM	9.5	8.43	0.14	0 mm	FCC #7	6	back	1:1	0.444	1.279	0.568	
5660	132	IEEE 802.11a	OFDM	9.5	9.33	0.13	0 mm	FCC #7	6	back	1:1	0.595	1.040	0.619	A9
5530	106	IEEE 802.11ac	OFDM	9.5	9.11	0.07	0 mm	FCC #7	29.3	back	1:1	0.291	1.094	0.318	
5660	132	IEEE 802.11a	OFDM	9.5	9.33	0.09	0 mm	FCC #7	6	top	1:1	0.043	1.040	0.045	
5660	132	IEEE 802.11a	OFDM	9.5	9.33	-0.02	0 mm	FCC #7	6	left	1:1	0.026	1.040	0.027	
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 10-7
Antenna 2 DTS 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)	
2412	1	IEEE 802.11b	DSSS	14.5	14.22	0.00	0 mm	FCC #7	1	back	1:1	0.397	1.067	0.424	
2412	1	IEEE 802.11b	DSSS	14.5	14.22	0.04	0 mm	FCC #7	1	top	1:1	0.124	1.067	0.132	
2412	1	IEEE 802.11b	DSSS	14.5	14.22	-0.13	0 mm	FCC #7	1	left	1:1	0.003	1.067	0.003	
5745	149	IEEE 802.11a	OFDM	9.5	8.87	0.09	0 mm	FCC #7	6	back	1:1	0.429	1.156	0.496	
5785	157	IEEE 802.11a	OFDM	9.5	8.92	0.15	0 mm	FCC #7	6	back	1:1	0.479	1.143	0.547	
5825	165	IEEE 802.11a	OFDM	9.5	8.72	0.00	0 mm	FCC #7	6	back	1:1	0.486	1.197	0.582	
5775	155	IEEE 802.11ac	OFDM	9.5	8.58	-0.09	0 mm	FCC #7	29.3	back	1:1	0.470	1.236	0.581	
5785	157	IEEE 802.11a	OFDM	9.5	8.92	0.10	0 mm	FCC #7	6	top	1:1	0.102	1.143	0.117	
5785	157	IEEE 802.11a	OFDM	9.5	8.92	0.13	0 mm	FCC #7	6	left	1:1	0.021	1.143	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 10-8
Antenna 2 NII 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)	
5200	40	IEEE 802.11a	OFDM	9.5	8.89	-0.17	0 mm	FCC #7	6	back	1:1	0.486	1.151	0.559	
5240	48	IEEE 802.11a	OFDM	9.5	9.09	-0.03	0 mm	FCC #7	6	back	1:1	0.443	1.099	0.487	
5210	42	IEEE 802.11ac	OFDM	9.5	8.51	-0.02	0 mm	FCC #7	29.3	back	1:1	0.462	1.256	0.580	
5240	48	IEEE 802.11a	OFDM	9.5	9.09	-0.02	0 mm	FCC #7	6	top	1:1	0.143	1.099	0.157	
5240	48	IEEE 802.11a	OFDM	9.5	9.09	0.16	0 mm	FCC #7	6	left	1:1	0.022	1.099	0.024	
5280	56	IEEE 802.11a	OFDM	9.5	9.13	0.02	0 mm	FCC #7	6	back	1:1	0.442	1.089	0.481	
5320	64	IEEE 802.11a	OFDM	9.5	9.10	0.13	0 mm	FCC #7	6	back	1:1	0.478	1.096	0.524	
5290	58	IEEE 802.11ac	OFDM	9.5	8.62	0.02	0 mm	FCC #7	29.3	back	1:1	0.446	1.225	0.546	
5280	56	IEEE 802.11a	OFDM	9.5	9.13	0.17	0 mm	FCC #7	6	top	1:1	0.149	1.089	0.162	
5280	56	IEEE 802.11a	OFDM	9.5	9.13	0.14	0 mm	FCC #7	6	left	1:1	0.019	1.089	0.021	
5520	104	IEEE 802.11a	OFDM	9.5	9.20	0.15	0 mm	FCC #7	6	back	1:1	0.444	1.072	0.476	
5560	112	IEEE 802.11a	OFDM	9.5	8.97	0.04	0 mm	FCC #7	6	back	1:1	0.458	1.130	0.518	
5700	140	IEEE 802.11a	OFDM	9.5	8.83	0.03	0 mm	FCC #7	6	back	1:1	0.547	1.167	0.638	
5530	106	IEEE 802.11ac	OFDM	9.5	8.68	-0.04	0 mm	FCC #7	29.3	back	1:1	0.468	1.208	0.565	
5520	104	IEEE 802.11a	OFDM	9.5	9.20	-0.18	0 mm	FCC #7	6	top	1:1	0.120	1.072	0.129	
5520	104	IEEE 802.11a	OFDM	9.5	9.20	0.15	0 mm	FCC #7	6	left	1:1	0.021	1.072	0.023	
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 10-9
MIMO DTS Body SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Num ber	Data Rate (Mbps)	Side	Duty Cycle	SAR (1g)	Scaling Factor	Scaled SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
2412	1	IEEE 802.11n	OFDM	17.5	16.58	-0.15	0 mm	FCC #7	13	back	1:1	0.420	1.236	0.519	
2437	6	IEEE 802.11n	OFDM	17.5	17.08	0.01	0 mm	FCC #7	13	back	1:1	0.538	1.102	0.593	A7
2462	11	IEEE 802.11n	OFDM	17.5	16.51	0.09	0 mm	FCC #7	13	back	1:1	0.467	1.256	0.587	
2437	6	IEEE 802.11n	OFDM	17.5	17.08	0.02	0 mm	FCC #7	13	top	1:1	0.210	1.102	0.231	
2437	6	IEEE 802.11n	OFDM	17.5	17.08	-0.09	0 mm	FCC #7	13	left	1:1	0.036	1.102	0.040	
5765	153	IEEE 802.11n	OFDM	12.0	10.94	0.07	0 mm	FCC #7	13	back	1:1	0.392	1.276	0.500	
5785	157	IEEE 802.11n	OFDM	12.0	10.95	0.05	0 mm	FCC #7	13	back	1:1	0.421	1.274	0.536	
5825	165	IEEE 802.11n	OFDM	12.0	11.09	0.02	0 mm	FCC #7	13	back	1:1	0.412	1.233	0.508	
5825	165	IEEE 802.11n	OFDM	12.0	11.09	-0.12	0 mm	FCC #7	13	top	1:1	0.098	1.233	0.121	
5825	165	IEEE 802.11n	OFDM	12.0	11.09	0.19	0 mm	FCC #7	13	left	1:1	0.026	1.233	0.032	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 10-10
MIMO NII 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)	
5200	40	IEEE 802.11n	OFDM	12.0	11.07	0.04	0 mm	FCC #7	13	back	1:1	0.190	1.239	0.235	
5200	40	IEEE 802.11n	OFDM	12.0	11.07	0.07	0 mm	FCC #7	13	top	1:1	0.147	1.239	0.182	
5200	40	IEEE 802.11n	OFDM	12.0	11.07	-0.08	0 mm	FCC #7	13	left	1:1	0.029	1.239	0.036	
5280	56	IEEE 802.11n	OFDM	12.0	10.93	0.01	0 mm	FCC #7	13	back	1:1	0.189	1.279	0.242	
5280	56	IEEE 802.11n	OFDM	12.0	10.93	0.17	0 mm	FCC #7	13	top	1:1	0.126	1.279	0.161	
5280	56	IEEE 802.11n	OFDM	12.0	10.93	0.18	0 mm	FCC #7	13	left	1:1	0.027	1.279	0.035	
5540	108	IEEE 802.11n	OFDM	12.0	10.93	0.16	0 mm	FCC #7	13	back	1:1	0.296	1.279	0.379	
5580	116	IEEE 802.11n	OFDM	12.0	10.86	0.12	0 mm	FCC #7	13	back	1:1	0.302	1.300	0.393	
5660	132	IEEE 802.11n	OFDM	12.0	10.87	0.16	0 mm	FCC #7	13	back	1:1	0.398	1.297	0.516	
5540	108	IEEE 802.11n	OFDM	12.0	10.93	0.14	0 mm	FCC #7	13	top	1:1	0.127	1.279	0.162	
5540	108	IEEE 802.11n	OFDM	12.0	10.93	-0.17	0 mm	FCC #7	13	left	1:1	0.028	1.279	0.036	
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 10-11
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)	
2480	78	Bluetooth	FHSS	11.5	11.35	-0.16	0 mm	FCC #7	1	back	1:1	0.001	1.035	0.001	A10
2480	78	Bluetooth	FHSS	11.5	11.35	0.17	0 mm	FCC #7	1	top	1:1	0.000	1.035	0.000	
2480	78	Bluetooth	FHSS	11.5	11.35	0.00	0 mm	FCC #7	1	left	1:1	0.000	1.035	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram								

10.2 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r01, 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 12 for variability analysis.
7. Per FCC KDB 616217 D04 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR exclusion threshold in FCC KDB 447498 D01v05 was applied to determine SAR test exclusion for adjacent edge configurations. Top edge and right edge SAR tests were required for the main antenna. Left edge and top edge SAR tests were required for the WLAN/BT antenna.

CDMA Notes:

1. CDMA Body SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0 according to KDB 941225 D01 procedures for data devices. Since the average output power of Subtype 2 for Rev. A is less than the Rev. 0 power levels, EVDO Rev. A SAR is not required. SAR is not required for 1x RTT for Ev-Do hotspot devices when the maximum average output of each channel is less than 1/4 dB higher than that measured in Subtype 0/1 Physical Layer configurations for Rev. 0.
2. Per FCC KDB Publication 447498 D01v05, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r01. The general test procedures used for testing can be found in Section 7.4.4.

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2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D01v05r01, when the reported (scaled) for LTE Band 41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per FCC KDB 941225 D05v02r03 and using the guidance provided in April 2013 TCB workshop notes. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.

WLAN Notes:

1. Justification for reduced test configurations for WIFI channels per KDB Publication 248227 D01v01r02 and October 2012 FCC/TCB Meeting Notes for 2.4 GHz WIFI: Highest average RF output power channel for the lowest data rate was selected for SAR evaluation in 802.11b. Other SISO 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 SISO IEEE 802.11b mode.
2. Justification for reduced test configurations for WIFI channels per KDB Publication 248227 D01v01r02 and October 2012 FCC/TCB Meeting Notes for 5 GHz WIFI: Highest average RF output power channel for the lowest data rate was selected for SAR evaluation in 802.11a. Other SISO IEEE 802.11 modes (including 802.11n) 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 SISO IEEE 802.11a mode.
3. Per KDB 248227, SAR for MIMO was measured with both transmitting simultaneously and was evaluated in dependently of SISO operation. For 2.4 GHz MIMO, 802.11n was evaluated. For 5 GHz MIMO, 802.11n was evaluated.
4. Per April 2013 TCB Workshop notes, full SAR tests for SISO IEEE 802.11ac configurations were not required because the average output power was not more than 0.25 dB higher than IEEE 802.11a mode. IEEE 802.11ac was evaluated for the highest IEEE 802.11a position in each 5 GHz band and exposure condition.
5. WIFI transmission was verified using an uncalibrated spectrum analyzer.
6. When the maximum extrapolated peak SAR of the zoom scan for the maximum output channel is >1.6 W/kg or the reported 1g averaged SAR is >0.8 W/kg, SAR testing on other default channels was required.
7. There is no proximity sensor power reduction mechanism applied for WIFI/BT modes.

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11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

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

11.2 Simultaneous Transmission Procedures

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

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

Table 11-1
Estimated SAR

Mode	Frequency	Maximum Allowed Power	Separation Distance (Body)	Estimated SAR (Body)
	[MHz]	[dBm]	[mm]	[W/kg]
Bluetooth LE	2480	9.00	5	0.336
Bluetooth LE	2480	9.00	19	0.088
Bluetooth LE	2480	9.00	21	0.080

Note:

1. Per FCC KDB 447498, when the test separation distance is < 5 mm, a distance of 5 mm is applied to determine estimated SAR.
2. Per KDB Publication 447498 D01v05, the maximum power of the channel was rounded to the nearest mW before calculation.
3. High channel frequency was used for calculation to ensure worst case SAR.
4. 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.

11.3 Body SAR Simultaneous Transmission Analysis

Table 11-2
Simultaneous Transmission Scenario (2.4 GHz Body at 0.0 cm)

Simult Tx	Configuration	EVDO BC10 (\$90S) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	EVDO BC0 (\$22H) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.832	0.585	1.417	N/A	Body SAR	Back	0.928	0.585	1.513	N/A
	Top	0.472	0.189	0.661	N/A		Top	0.433	0.189	0.622	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.162	0.400	0.562	N/A		Right	0.133	0.400	0.533	N/A
	Left	0.400	0.029	0.429	N/A		Left	0.400	0.029	0.429	N/A

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Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 26 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	1.027	0.585	See Note 1	0.01	Body SAR	Back	0.069	0.585	0.654	N/A
	Top	0.590	0.189	0.779	N/A		Top	0.033	0.189	0.222	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.076	0.400	0.476	N/A		Right	0.251	0.400	0.651	N/A
	Left	0.400	0.029	0.429	N/A		Left	0.400	0.029	0.429	N/A
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.517	0.585	1.102	N/A	Body SAR	Back	0.437	0.585	1.022	N/A
	Top	0.313	0.189	0.502	N/A		Top	0.267	0.189	0.456	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.116	0.400	0.516	N/A		Right	0.404	0.400	0.804	N/A
	Left	0.400	0.029	0.429	N/A		Left	0.400	0.029	0.429	N/A

Simult Tx	Configuration	EVDO BC10 (\$90S) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	EVDO BC0 (\$22H) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.832	0.424	1.256	N/A	Body SAR	Back	0.928	0.424	1.352	N/A
	Top	0.472	0.132	0.604	N/A		Top	0.433	0.132	0.565	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.162	0.400	0.562	N/A		Right	0.133	0.400	0.533	N/A
	Left	0.400	0.003	0.403	N/A		Left	0.400	0.003	0.403	N/A
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 26 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	1.027	0.424	1.451	N/A	Body SAR	Back	0.069	0.424	0.493	N/A
	Top	0.590	0.132	0.722	N/A		Top	0.033	0.132	0.165	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.076	0.400	0.476	N/A		Right	0.251	0.400	0.651	N/A
	Left	0.400	0.003	0.403	N/A		Left	0.400	0.003	0.403	N/A
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.517	0.424	0.941	N/A	Body SAR	Back	0.437	0.424	0.861	N/A
	Top	0.313	0.132	0.445	N/A		Top	0.267	0.132	0.399	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.116	0.400	0.516	N/A		Right	0.404	0.400	0.804	N/A
	Left	0.400	0.003	0.403	N/A		Left	0.400	0.003	0.403	N/A

Simult Tx	Configuration	EVDO BC10 (\$90S) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	EVDO BC0 (\$22H) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.832	0.593	1.425	N/A	Body SAR	Back	0.928	0.593	1.521	N/A
	Top	0.472	0.231	0.703	N/A		Top	0.433	0.231	0.664	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.162	0.400	0.562	N/A		Right	0.133	0.400	0.533	N/A
	Left	0.400	0.040	0.440	N/A		Left	0.400	0.040	0.440	N/A
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 26 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	1.027	0.593	See Note 1	0.02	Body SAR	Back	0.069	0.593	0.662	N/A
	Top	0.590	0.231	0.821	N/A		Top	0.033	0.231	0.264	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.076	0.400	0.476	N/A		Right	0.251	0.400	0.651	N/A
	Left	0.400	0.040	0.440	N/A		Left	0.400	0.040	0.440	N/A

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Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.517	0.593	1.110	N/A	Body SAR	Back	0.437	0.593	1.030	N/A
	Top	0.313	0.231	0.544	N/A		Top	0.267	0.231	0.498	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.116	0.400	0.516	N/A		Right	0.404	0.400	0.804	N/A
	Left	0.400	0.040	0.440	N/A		Left	0.400	0.040	0.440	N/A

Table 11-3
Simultaneous Transmission Scenario (5 GHz Body at 0.0 cm)

Simult Tx	Configuration	EVDO BC10 (\$90S) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	EVDO BC0 (\$22H) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.832	0.778	See Note 1	0.01	Body SAR	Back	0.928	0.778	See Note 1	0.01
	Top	0.472	0.045	0.517	N/A		Top	0.433	0.045	0.478	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.162	0.400	0.562	N/A		Right	0.133	0.400	0.533	N/A
	Left	0.400	0.027	0.427	N/A		Left	0.400	0.027	0.427	N/A
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 26 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	1.027	0.778	See Note 1	0.02	Body SAR	Back	0.069	0.778	0.847	N/A
	Top	0.590	0.045	0.635	N/A		Top	0.033	0.045	0.078	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.076	0.400	0.476	N/A		Right	0.251	0.400	0.651	N/A
	Left	0.400	0.027	0.427	N/A		Left	0.400	0.027	0.427	N/A
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.517	0.778	1.295	N/A	Body SAR	Back	0.437	0.778	1.215	N/A
	Top	0.313	0.045	0.358	N/A		Top	0.267	0.045	0.312	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.116	0.400	0.516	N/A		Right	0.404	0.400	0.804	N/A
	Left	0.400	0.027	0.427	N/A		Left	0.400	0.027	0.427	N/A
Simult Tx	Configuration	EVDO BC10 (\$90S) SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	EVDO BC0 (\$22H) SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.832	0.638	1.470	N/A	Body SAR	Back	0.928	0.638	1.566	N/A
	Top	0.472	0.162	0.634	N/A		Top	0.433	0.162	0.595	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.162	0.400	0.562	N/A		Right	0.133	0.400	0.533	N/A
	Left	0.400	0.024	0.424	N/A		Left	0.400	0.024	0.424	N/A
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 26 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	1.027	0.638	See Note 1	0.02	Body SAR	Back	0.069	0.638	0.707	N/A
	Top	0.590	0.162	0.752	N/A		Top	0.033	0.162	0.195	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.076	0.400	0.476	N/A		Right	0.251	0.400	0.651	N/A
	Left	0.400	0.024	0.424	N/A		Left	0.400	0.024	0.424	N/A
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.517	0.638	1.155	N/A	Body SAR	Back	0.437	0.638	1.075	N/A
	Top	0.313	0.162	0.475	N/A		Top	0.267	0.162	0.429	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.116	0.400	0.516	N/A		Right	0.404	0.400	0.804	N/A
	Left	0.400	0.024	0.424	N/A		Left	0.400	0.024	0.424	N/A

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Simult Tx	Configuration	EVDO BC10 (\$90S) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	EVDO BC0 (\$22H) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.832	0.536	1.368	N/A	Body SAR	Back	0.928	0.536	1.464	N/A
	Top	0.472	0.182	0.654	N/A		Top	0.433	0.182	0.615	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.162	0.400	0.562	N/A		Right	0.133	0.400	0.533	N/A
	Left	0.400	0.036	0.436	N/A		Left	0.400	0.036	0.436	N/A
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 26 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	1.027	0.536	1.563	N/A	Body SAR	Back	0.069	0.536	0.605	N/A
	Top	0.590	0.182	0.772	N/A		Top	0.033	0.182	0.215	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.076	0.400	0.476	N/A		Right	0.251	0.400	0.651	N/A
	Left	0.400	0.036	0.436	N/A		Left	0.400	0.036	0.436	N/A
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
Body SAR	Back	0.517	0.536	1.053	N/A	Body SAR	Back	0.437	0.536	0.973	N/A
	Top	0.313	0.182	0.495	N/A		Top	0.267	0.182	0.449	N/A
	Bottom	0.400	0.400	0.800	N/A		Bottom	0.400	0.400	0.800	N/A
	Right	0.116	0.400	0.516	N/A		Right	0.404	0.400	0.804	N/A
	Left	0.400	0.036	0.436	N/A		Left	0.400	0.036	0.436	N/A

Table 11-4
Simultaneous Transmission Scenario (Bluetooth Body at 0.0 cm)

Simult Tx	Configuration	EVDO BC10 (\$90S) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	EVDO BC0 (\$22H) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.832	0.336	1.168	Body SAR	Back	0.928	0.336	1.264
	Top	0.472	0.336	0.808		Top	0.433	0.336	0.769
	Bottom	0.400	0.400	0.800		Bottom	0.400	0.400	0.800
	Right	0.162	0.400	0.562		Right	0.133	0.400	0.533
	Left	0.400	0.336	0.736		Left	0.400	0.336	0.736
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 26 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	1.027	0.336	1.363	Body SAR	Back	0.069	0.336	0.405
	Top	0.590	0.336	0.926		Top	0.033	0.336	0.369
	Bottom	0.400	0.400	0.800		Bottom	0.400	0.400	0.800
	Right	0.076	0.400	0.476		Right	0.251	0.400	0.651
	Left	0.400	0.336	0.736		Left	0.400	0.336	0.736
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	0.517	0.336	0.853	Body SAR	Back	0.437	0.336	0.773
	Top	0.313	0.336	0.649		Top	0.267	0.336	0.603
	Bottom	0.400	0.400	0.800		Bottom	0.400	0.400	0.800
	Right	0.116	0.400	0.516		Right	0.404	0.400	0.804
	Left	0.400	0.336	0.736		Left	0.400	0.336	0.736

Table 11-5
Simultaneous Transmission Scenario (2.4 GHz Body at 2.1 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
Back Side	CDMA BC10 (\$90S)	0.068	< 0.585	< 0.653	Back Side	CDMA BC10 (\$90S)	0.068	< 0.424	< 0.492
Back Side	CDMA BC0 (\$22H)	0.081	< 0.585	< 0.666	Back Side	CDMA BC0 (\$22H)	0.081	< 0.424	< 0.505
Back Side	PCS CDMA	0.283	< 0.585	< 0.868	Back Side	PCS CDMA	0.283	< 0.424	< 0.707
Back Side	LTE Band 26	0.085	< 0.585	< 0.67	Back Side	LTE Band 26	0.085	< 0.424	< 0.509
Back Side	LTE Band 25 (PCS)	0.721	< 0.585	< 1.306	Back Side	LTE Band 25 (PCS)	0.721	< 0.424	< 1.145
Back Side	LTE Band 41	0.240	< 0.585	< 0.825	Back Side	LTE Band 41	0.240	< 0.424	< 0.664

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
Back Side	CDMA BC10 (\$90S)	0.068	< 0.593	< 0.661
Back Side	CDMA BC0 (\$22H)	0.081	< 0.593	< 0.674
Back Side	PCS CDMA	0.283	< 0.593	< 0.876
Back Side	LTE Band 26	0.085	< 0.593	< 0.678
Back Side	LTE Band 25 (PCS)	0.721	< 0.593	< 1.314
Back Side	LTE Band 41	0.240	< 0.593	< 0.833

Table 11-6
Simultaneous Transmission Scenario (5 GHz Body at 2.1 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
Back Side	CDMA BC10 (\$90S)	0.068	< 0.778	< 0.846	Back Side	CDMA BC10 (\$90S)	0.068	< 0.638	< 0.706
Back Side	CDMA BC0 (\$22H)	0.081	< 0.778	< 0.859	Back Side	CDMA BC0 (\$22H)	0.081	< 0.638	< 0.719
Back Side	PCS CDMA	0.283	< 0.778	< 1.061	Back Side	PCS CDMA	0.283	< 0.638	< 0.921
Back Side	LTE Band 26	0.085	< 0.778	< 0.863	Back Side	LTE Band 26	0.085	< 0.638	< 0.723
Back Side	LTE Band 25 (PCS)	0.721	< 0.778	< 1.499	Back Side	LTE Band 25 (PCS)	0.721	< 0.638	< 1.359
Back Side	LTE Band 41	0.240	< 0.778	< 1.018	Back Side	LTE Band 41	0.240	< 0.638	< 0.878

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
Back Side	CDMA BC10 (\$90S)	0.068	< 0.536	< 0.604
Back Side	CDMA BC0 (\$22H)	0.081	< 0.536	< 0.617
Back Side	PCS CDMA	0.283	< 0.536	< 0.819
Back Side	LTE Band 26	0.085	< 0.536	< 0.621
Back Side	LTE Band 25 (PCS)	0.721	< 0.536	< 1.257
Back Side	LTE Band 41	0.240	< 0.536	< 0.776

Table 11-7
Simultaneous Transmission Scenario (Bluetooth Body at 2.1 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
Back Side	CDMA BC10 (\$90S)	0.068	0.080	0.148
Back Side	CDMA BC0 (\$22H)	0.081	0.080	0.161
Back Side	PCS CDMA	0.283	0.080	0.363
Back Side	LTE Band 26	0.085	0.080	0.165
Back Side	LTE Band 25 (PCS)	0.721	0.080	0.801
Back Side	LTE Band 41	0.240	0.080	0.320

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Table 11-8
Simultaneous Transmission Scenario (2.4 GHz Body at 1.9 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
Top Edge	CDMA BC10 (\$90S)	0.033	< 0.189	< 0.222	Top Edge	CDMA BC10 (\$90S)	0.033	< 0.132	< 0.165
Top Edge	CDMA BC0 (\$22H)	0.092	< 0.189	< 0.281	Top Edge	CDMA BC0 (\$22H)	0.092	< 0.132	< 0.224
Top Edge	PCS CDMA	0.353	< 0.189	< 0.542	Top Edge	PCS CDMA	0.353	< 0.132	< 0.485
Top Edge	LTE Band 26	0.052	< 0.189	< 0.241	Top Edge	LTE Band 26	0.052	< 0.132	< 0.184
Top Edge	LTE Band 25 (PCS)	0.507	< 0.189	< 0.696	Top Edge	LTE Band 25 (PCS)	0.507	< 0.132	< 0.639
Top Edge	LTE Band 41	0.355	< 0.189	< 0.544	Top Edge	LTE Band 41	0.355	< 0.132	< 0.487

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
Top Edge	CDMA BC10 (\$90S)	0.033	< 0.231	< 0.264
Top Edge	CDMA BC0 (\$22H)	0.092	< 0.231	< 0.323
Top Edge	PCS CDMA	0.353	< 0.231	< 0.584
Top Edge	LTE Band 26	0.052	< 0.231	< 0.283
Top Edge	LTE Band 25 (PCS)	0.507	< 0.231	< 0.738
Top Edge	LTE Band 41	0.355	< 0.231	< 0.586

Table 11-9
Simultaneous Transmission Scenario (5 GHz Body at 1.9 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
Top Edge	CDMA BC10 (\$90S)	0.033	< 0.045	< 0.078	Top Edge	CDMA BC10 (\$90S)	0.033	< 0.162	< 0.195
Top Edge	CDMA BC0 (\$22H)	0.092	< 0.045	< 0.137	Top Edge	CDMA BC0 (\$22H)	0.092	< 0.162	< 0.254
Top Edge	PCS CDMA	0.353	< 0.045	< 0.398	Top Edge	PCS CDMA	0.353	< 0.162	< 0.515
Top Edge	LTE Band 26	0.052	< 0.045	< 0.097	Top Edge	LTE Band 26	0.052	< 0.162	< 0.214
Top Edge	LTE Band 25 (PCS)	0.507	< 0.045	< 0.552	Top Edge	LTE Band 25 (PCS)	0.507	< 0.162	< 0.669
Top Edge	LTE Band 41	0.355	< 0.045	< 0.4	Top Edge	LTE Band 41	0.355	< 0.162	< 0.517

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
Top Edge	CDMA BC10 (\$90S)	0.033	< 0.182	< 0.215
Top Edge	CDMA BC0 (\$22H)	0.092	< 0.182	< 0.274
Top Edge	PCS CDMA	0.353	< 0.182	< 0.535
Top Edge	LTE Band 26	0.052	< 0.182	< 0.234
Top Edge	LTE Band 25 (PCS)	0.507	< 0.182	< 0.689
Top Edge	LTE Band 41	0.355	< 0.182	< 0.537

Table 11-10
Simultaneous Transmission Scenario (Bluetooth Body at 1.9 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
Top Edge	CDMA BC10 (\$90S)	0.033	0.088	0.121
Top Edge	CDMA BC0 (\$22H)	0.092	0.088	0.180
Top Edge	PCS CDMA	0.353	0.088	0.441
Top Edge	LTE Band 26	0.052	0.088	0.140
Top Edge	LTE Band 25 (PCS)	0.507	0.088	0.595
Top Edge	LTE Band 41	0.355	0.088	0.443

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not higher than 0.04 per FCC KDB 447498 D01v05. See Section 11.4 for detailed SPLS ratio analysis.
2. 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 configuration excluded per FCC KDB

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- 447498 D01v05. Therefore, an estimated SAR of 0.4 W/kg for 2.4 GHz WLAN, 5 GHz WLAN, and Bluetooth was used to evaluate the simultaneous sums.
- For body SAR summations for back side at 2.1 cm, and top at 1.9 cm 2.4 GHz WLAN and 5 GHz WLAN SAR values for 0.0 cm were used since the 0.0 cm test distance for 2.4 GHz WLAN, Bluetooth, and 5 GHz WLAN were more conservative. "<" denotes that the 0.0 cm 2.4 GHz WLAN and 5 GHz WLAN SAR values were used for summation purposes.
 - The worst case 5 GHz WLAN reported SAR for each configuration was used for SAR summation, regardless of whether the WLAN channel has WIFI direct capability. Therefore, the summations above represent the absolute worst cases for simultaneous transmission with 5 GHz WLAN.
 - Estimated Bluetooth LE SAR results were used in the above tables to determine simultaneous transmission SAR test exclusion since they were more conservative than the reported Bluetooth SAR values.

11.4 SPLSR Evaluation and Analysis

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

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

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

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

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

Mode/Band	x (mm)	y (mm)
802.11b ANT 1	-31.20	-71.80
PCS EVDO	-12.01	65.99

Figure 11-1
Peak SAR Locations

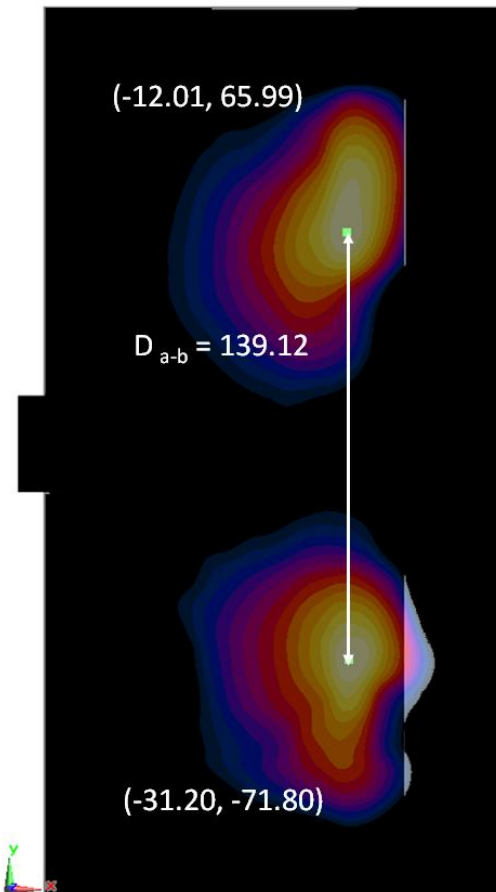


Table 11-12
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
802.11b ANT 1	PCS EVDO	0.585	1.027	1.612	139.12	0.01

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The sum of the standalone SAR values was above 1.6 W/kg for the Body back side configuration at a separation distance of 0 mm with PCS EVDO antenna operating at limited output power with 2.4 GHz WLAN MIMO.

Table 11-13
Peak SAR Locations for Body Back Side at 0 mm

Mode/Band	x (mm)	y (mm)
802.11n MIMO 2.4 GHz	-35.88	-60.58
PCS EVDO	-12.01	65.99

Figure 11-2
Peak SAR Locations

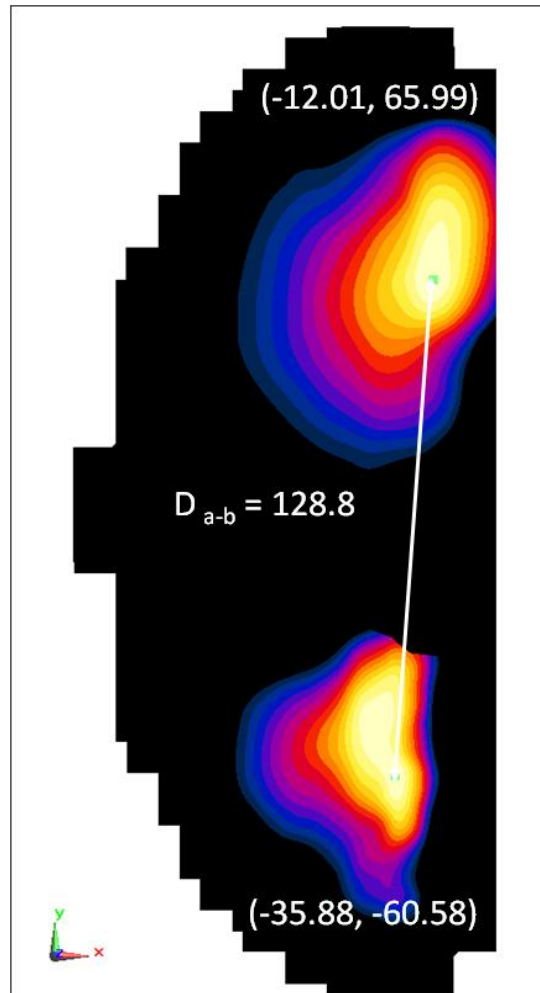


Table 11-14
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
802.11n MIMO 2.4 GHz	PCS EVDO	0.593	1.027	1.62	128.8	0.02

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The sum of the standalone SAR values was above 1.6 W/kg for the Body back side configuration at a separation distance of 0 mm with Cell BC10 EVDO antenna operating at limited output power with 5 GHz WLAN Ant 1.

Table 11-15
Peak SAR Locations for Body Back Side at 0 mm

Mode/Band	x (mm)	y (mm)
802.11a Ant 1	-25.04	-72.99
EVDO BC10 (§90S)	-24.00	76.50

Figure 11-3
Peak SAR Locations

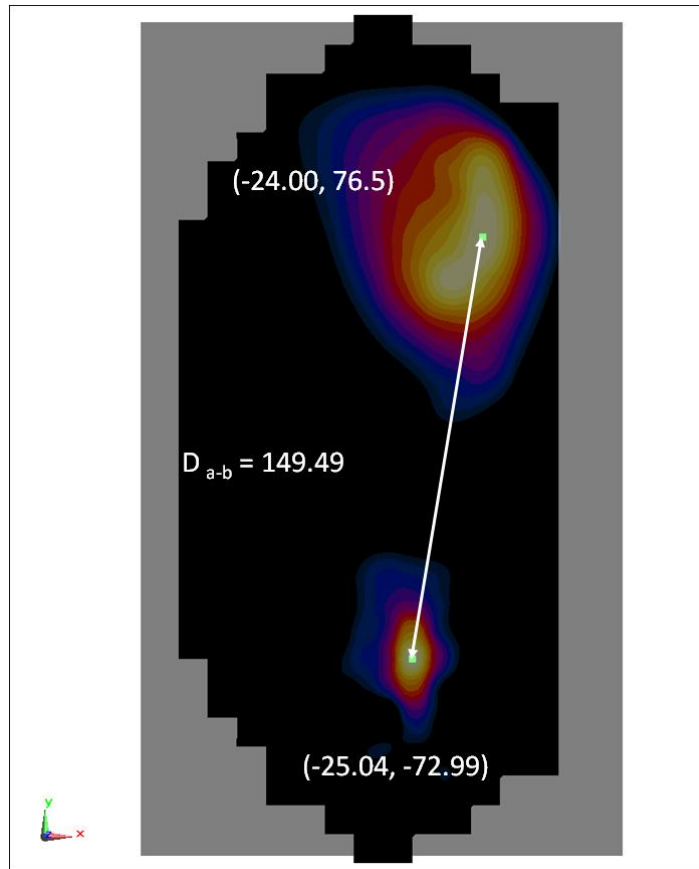


Table 11-16
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
802.11a Ant 1	EVDO BC10 (§90S)	0.778	0.832	1.61	149.49	0.01

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The sum of the standalone SAR values was above 1.6 W/kg for the Body back side configuration at a separation distance of 0 mm with Cell BC0 EVDO antenna operating at limited output power with 5 GHz WLAN Ant 1.

Table 11-17
Peak SAR Locations for Body Back Side at 0 mm

Mode/Band	x (mm)	y (mm)
802.11a Ant 1	-25.04	-72.99
EVDO BC0 (\$22H)	-24.00	84.50

Figure 11-4
Peak SAR Locations

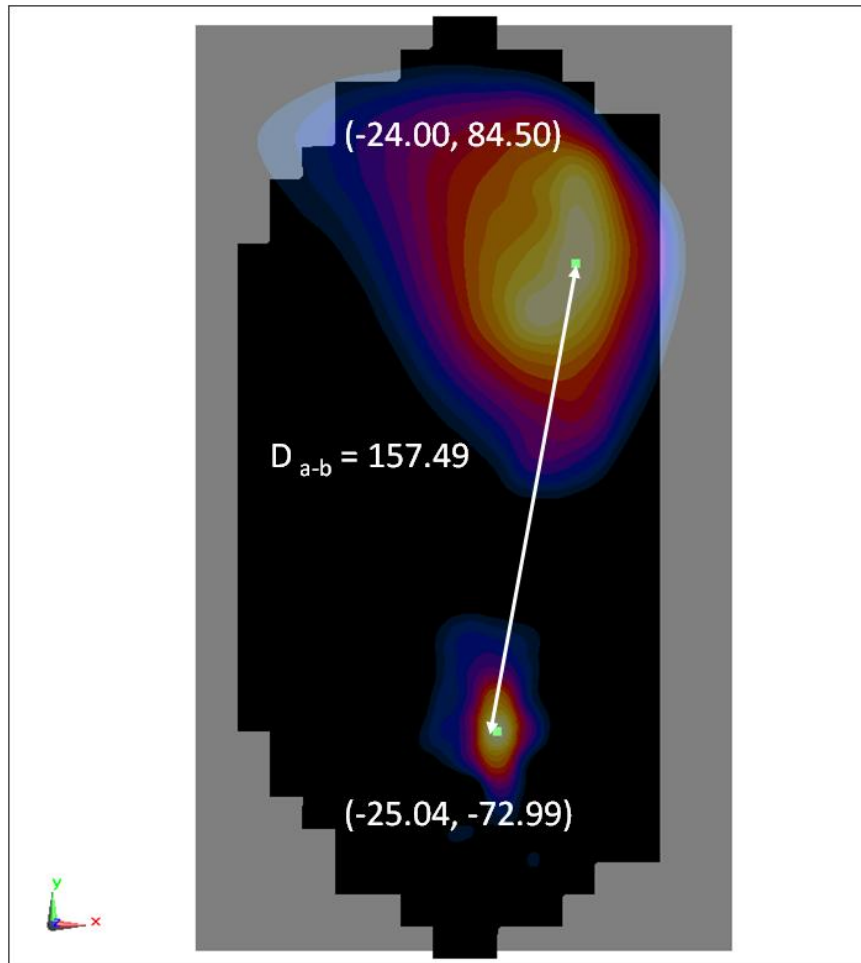


Table 11-18
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
802.11a Ant 1	EVDO BC0 (\$22H)	0.778	0.928	1.706	157.49	0.01

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The sum of the standalone SAR values was above 1.6 W/kg for the Body back side configuration at a separation distance of 0 mm with PCS EVDO antenna operating at limited output power with 5 GHz WLAN Ant 1.

Table 11-19
Peak SAR Locations for Body Back Side at 0 mm

Mode/Band	x (mm)	y (mm)
802.11a Ant 1	-25.04	-72.99
PCS EVDO	-12.01	65.99

Figure 11-5
Peak SAR Locations

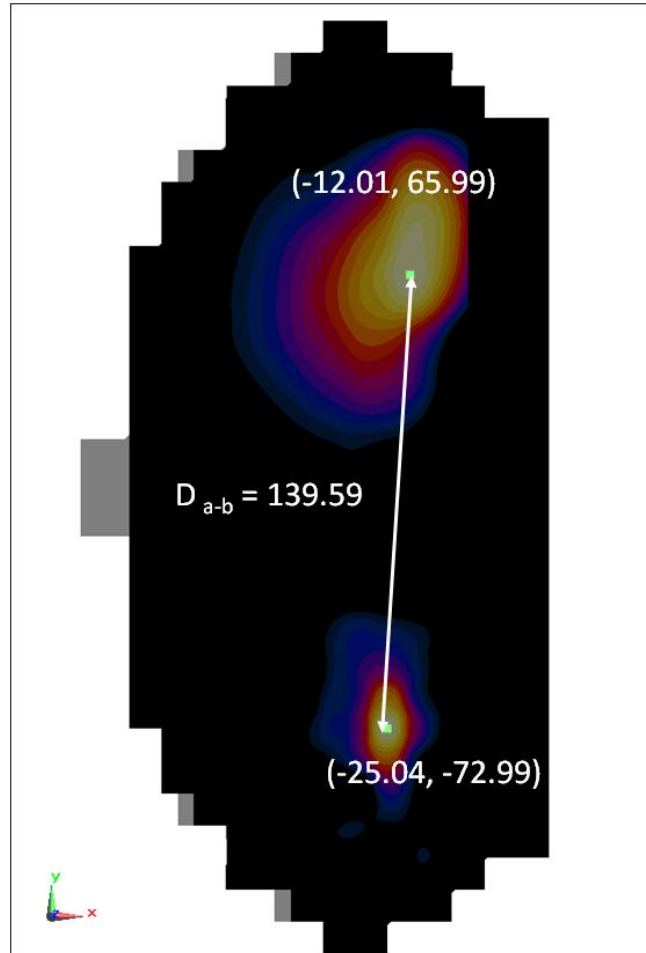


Table 11-20
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
802.11a Ant 1	PCS EVDO	0.778	1.027	1.805	139.59	0.02

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The sum of the standalone SAR values was above 1.6 W/kg for the Body back side configuration at a separation distance of 0 mm with PCS EVDO antenna operating at limited output power with 5 GHz WLAN Ant 2.

Table 11-21
Peak SAR Locations for Body Back Side at 0 mm

Mode/Band	x (mm)	y (mm)
802.11a ANT 2	-24.03	-42.99
PCS EVDO	-12.01	65.99

Figure 11-6
Peak SAR Locations

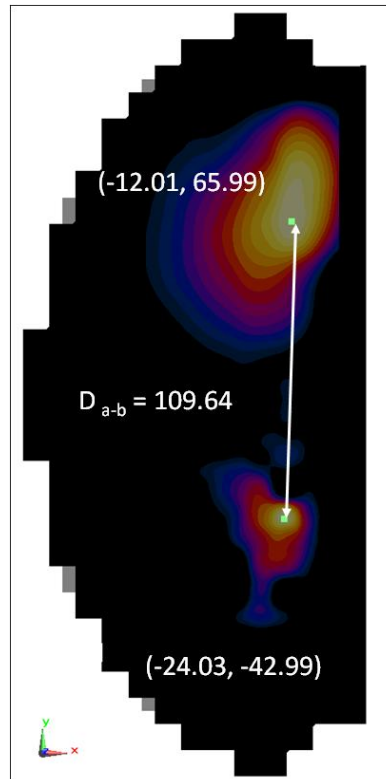


Table 11-22
SAR Sum to Peak Location Separation Ratio Calculation

Antenna Pair		Standalone 1g SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	(a+b) ^{1.5} /D _{a-b}
802.11a ANT 2	PCS EVDO	0.638	1.027	1.665	109.64	0.02

11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR and SPLSR 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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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

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

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

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

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.					(W/kg)	(W/kg)		(W/kg)		(W/kg)	
835	848.31	777	CDMA BC0 (S22H)	EVDO Rev. 0	back	0 mm	0.844	0.792	1.07	N/A	N/A	N/A	N/A
1900	1880.00	600	PCS CDMA	EVDO Rev. 0	back	0 mm	0.830	0.810	1.02	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body							
Spatial Peak						1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population						averaged over 1 gram							

12.2 Measurement Uncertainty

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

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13 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	N/A	N/A	N/A	3051A00187
Agilent	8648D	(9kHz-4GHz) Signal Generator	4/15/2014	Annual	4/15/2015	3629J00687
Agilent	8753E	(30kHz-6GHz) Network Analyzer	7/23/2013	Annual	7/23/2014	US37390350
Agilent	8753ES	S-Parameter Network Analyzer	5/22/2014	Annual	5/22/2015	US39170118
Agilent	8753ES	S-Parameter Network Analyzer	10/29/2013	Annual	10/29/2014	US39170122
Agilent	E4438C	ESG Vector Signal Generator	4/25/2014	Annual	4/25/2015	MY42082385
Agilent	E4438C	ESG Vector Signal Generator	3/31/2014	Annual	3/31/2015	MY42082659
Agilent	E5515C	Wireless Communications Test Set	3/28/2014	Annual	3/28/2015	GB42230325
Agilent	E5515C	Wireless Communications Test Set	3/28/2014	Annual	3/28/2015	GB44400860
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB44450273
Agilent	E8257D	(250kHz-20GHz) Signal Generator	4/15/2014	Annual	4/15/2015	MY45470194
Agilent	N5182A	MXG Vector Signal Generator	4/15/2014	Annual	4/15/2015	MY47420651
Agilent	N5182A	MXG Vector Signal Generator	4/15/2014	Annual	4/15/2015	MY47420800
Agilent	N9020A	MXA Signal Analyzer	10/29/2013	Annual	10/29/2014	US46470561
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433971
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433972
Anritsu	MA24106A	USB Power Sensor	1/3/2014	Annual	1/3/2015	1349501
Anritsu	MA24106A	USB Power Sensor	1/3/2014	Annual	1/3/2015	1349503
Anritsu	MA24106A	USB Power Sensor	1/3/2014	Annual	1/3/2015	1349509
Anritsu	MA24106A	USB Power Sensor	1/3/2014	Annual	1/3/2015	1349514
Anritsu	MA2411B	Pulse Power Sensor	11/14/2013	Annual	11/14/2014	1126066
Anritsu	MA2411B	Pulse Power Sensor	3/25/2014	Annual	3/25/2015	1207470
Anritsu	MA2411B	Pulse Power Sensor	2/3/2014	Annual	2/3/2015	1339018
Anritsu	ML2469A	Power Meter	3/14/2014	Annual	3/14/2015	1306009
Anritsu	ML2495A	Power Meter	10/31/2013	Annual	10/31/2014	1039008
Anritsu	MT8820C	Radio Communication Analyzer	12/12/2013	Annual	12/12/2014	6200901190
COMTech	AR85729-5	Solid State Amplifier	CBT	N/A	CBT	M155A00-009
Control Company	4052	Long Stem Thermometer	9/27/2013	Biennial	9/27/2015	130567447
Control Company	36934-158	Wall-Mounted Thermometer	4/29/2014	Biennial	4/29/2016	122014488
Control Company	61220-416	Long-Stem Thermometer	4/29/2014	Biennial	4/29/2016	111331323
Fisher Scientific	15-077-960	Digital Thermometer	11/6/2012	Biennial	11/6/2014	122640025
Fisher Scientific	15-078J	Long Stem Thermometer	10/30/2012	Biennial	10/30/2014	122626059
Fisher Scientific	S97611	Thermometer	4/12/2013	Biennial	4/12/2015	130219304
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mitutoyo	CD-6"CSX	Digital Caliper	5/8/2014	Biennial	5/8/2016	13264162
Mitutoyo	CD-6"CSX	Digital Caliper	5/8/2014	Biennial	5/8/2016	13264165
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMU200	Base Station Simulator	6/6/2014	Annual	6/6/2015	109892
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	10/18/2013	Annual	10/18/2014	100976
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	6/3/2014	Annual	6/3/2015	108843
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	2/20/2014	Annual	2/20/2015	128633
Seekonk	NC-100	Torque Wrench	3/18/2014	Biennial	3/18/2016	22313
Seekonk	NC-100	Torque Wrench 5/16", 8" lbs	3/18/2014	Biennial	3/18/2016	N/A
SPEAG	D1900V2	1900 MHz SAR Dipole	2/27/2014	Annual	2/27/2015	5d148
SPEAG	D2450V2	2450 MHz SAR Dipole	8/23/2013	Annual	8/23/2014	719
SPEAG	D2600V2	2600 MHz SAR Dipole	4/8/2014	Annual	4/8/2015	1004
SPEAG	D5GHzV2	5 GHz SAR Dipole	9/23/2013	Annual	9/23/2014	1007
SPEAG	D835V2	835 MHz SAR Dipole	4/7/2014	Annual	4/7/2015	4d119
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/12/2013	Annual	12/12/2014	649
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/17/2013	Annual	9/17/2014	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/17/2014	Annual	3/17/2015	1364
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/11/2014	Annual	4/11/2015	1368
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/18/2013	Annual	11/18/2014	1407
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/6/2014	Annual	5/6/2015	1070
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/13/2013	Annual	11/13/2014	1091
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/18/2013	Annual	8/18/2014	1008
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/18/2013	Annual	8/18/2014	1009
SPEAG	ES3DV3	SAR Probe	4/11/2014	Annual	4/11/2015	3213
SPEAG	ES3DV3	SAR Probe	9/23/2013	Annual	9/23/2014	3288
SPEAG	ES3DV3	SAR Probe	4/17/2014	Annual	4/17/2015	3319
SPEAG	ES3DV3	SAR Probe	11/25/2013	Annual	11/25/2014	3332
SPEAG	EX3DV4	SAR Probe	12/18/2013	Annual	12/18/2014	3920
VWR	23226-658	Long Stem Thermometer	6/27/2012	Biennial	6/27/2014	122363923
VWR	36934-158	Wall-Mounted Thermometer	4/29/2014	Biennial	4/29/2016	111859323

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.

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14 MEASUREMENT UNCERTAINTIES

Applicable for frequencies less than 3000 MHz.

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

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

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Applicable for frequencies up to 6 GHz.

a	b	c	d	e= f(d,k)	f	g	h = c x 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	6.55	N	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	1.0	1.0	1.3	1.3	∞
Boundary 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	12.4	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.7	24.0

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

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15 CONCLUSION

15.1 Measurement Conclusion

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

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

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APPENDIX A: SAR TEST DATA

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT807P; Type: Portable Tablet; Serial: FCC#4

Communication System: UID 0, CDMA (0); Frequency: 820.1 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 820.1 \text{ MHz}$; $\sigma = 0.979 \text{ S/m}$; $\epsilon_r = 53.824$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-16-2014; Ambient Temp: 22.3°C; Tissue Temp: 22.3°C

Probe: ES3DV3 - SN3332; ConvF(6.08, 6.08, 6.08); Calibrated: 11/25/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

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

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7164)

Mode: Cell. EVDO (\$90S), Body SAR, Back side, Mid.ch

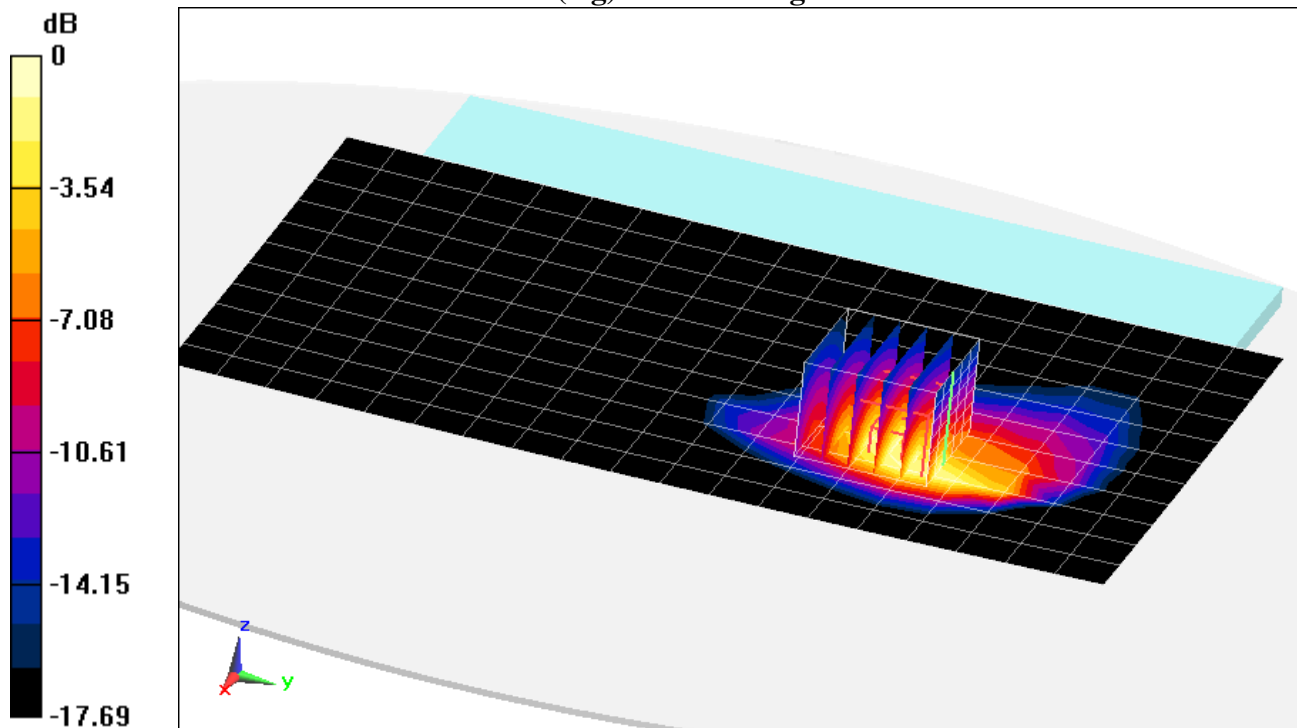
Area Scan (12x20x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Reference Value = 27.36 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.798 W/kg



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

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT807P; Type: Portable Tablet; Serial: FCC#4

Communication System: UID 0, CDMA (0); Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 848.31 \text{ MHz}$; $\sigma = 1.007 \text{ S/m}$; $\epsilon_r = 53.56$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-16-2014; Ambient Temp: 22.3°C; Tissue Temp: 22.3°C

Probe: ES3DV3 - SN3332; ConvF(6.08, 6.08, 6.08); Calibrated: 11/25/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

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

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7164)

Mode: Cell. EVDO (§22H), Body SAR, Back side, High.ch

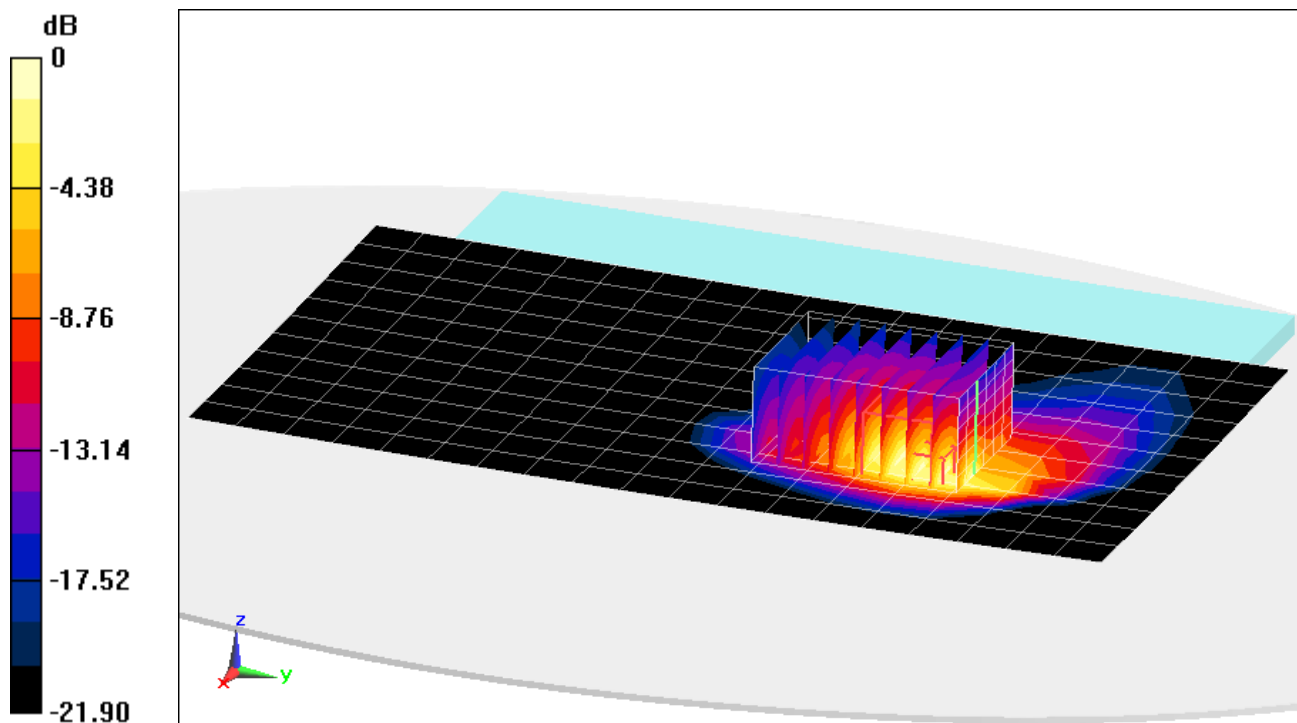
Area Scan (12x20x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x9x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.734 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 0.844 W/kg



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

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT807P; Type: Portable Tablet; Serial: FCC#4

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

Medium: 1900 Body Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.476 \text{ S/m}$; $\epsilon_r = 51.517$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; space: 0.0 cm

Test Date: 06-12-2014; Ambient Temp: 24.5°C; Tissue Temp: 24.0°C

Probe: ES3DV3 - SN3288; ConvF(4.82, 4.82, 4.82); Calibrated: 9/23/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

Mode: PCS EVDO, Body SAR, Back side, Mid.ch

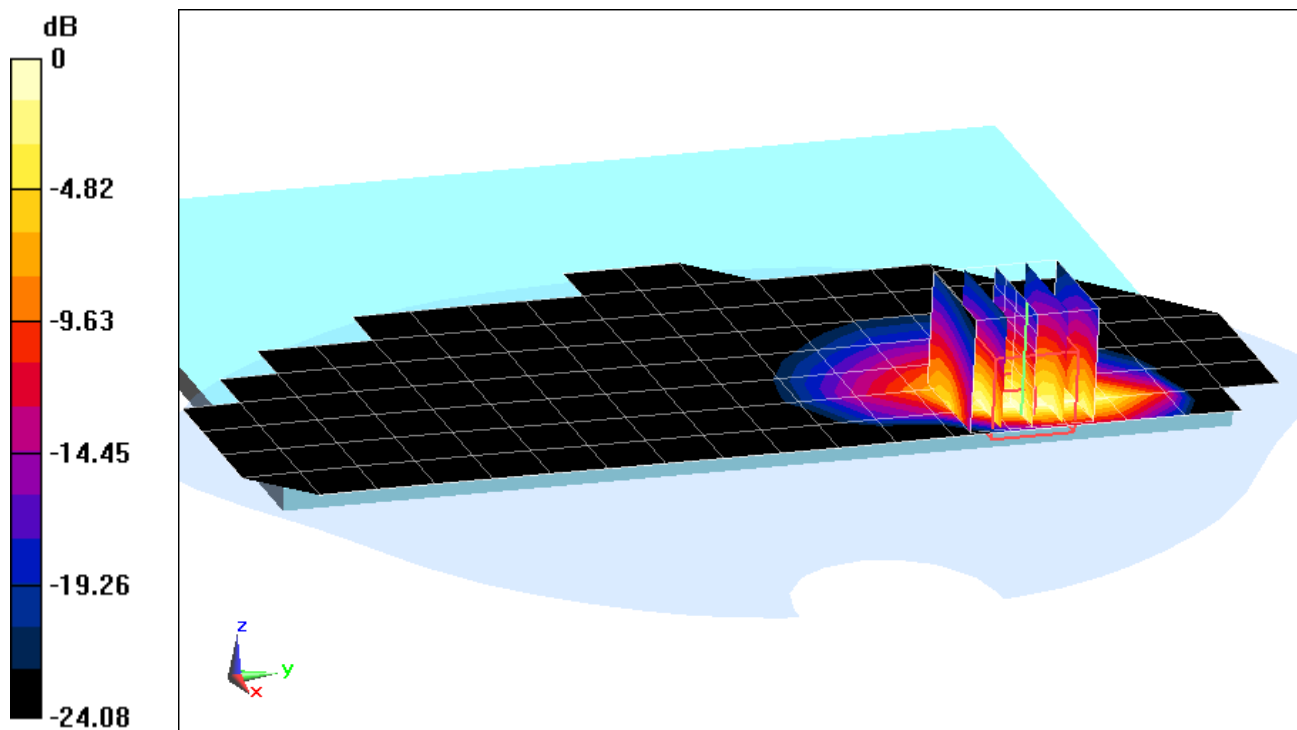
Area Scan (13x19x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 21.466 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 0.830 W/kg



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

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT807P; Type: Portable Tablet; Serial: FCC#2

Communication System: UID 0, LTE Band 26 (0); Frequency: 819 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 819 \text{ MHz}$; $\sigma = 0.978 \text{ S/m}$; $\epsilon_r = 53.835$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 mm

Test Date: 06-16-2014; Ambient Temp: 22.3°C; Tissue Temp: 22.3°C

Probe: ES3DV3 - SN3332; ConvF(6.08, 6.08, 6.08); Calibrated: 11/25/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

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

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7164)

Mode: LTE Band 26, Body SAR, Right Edge, Low.ch

10 MHz Bandwidth, QPSK, 1 RB, 0 Offset

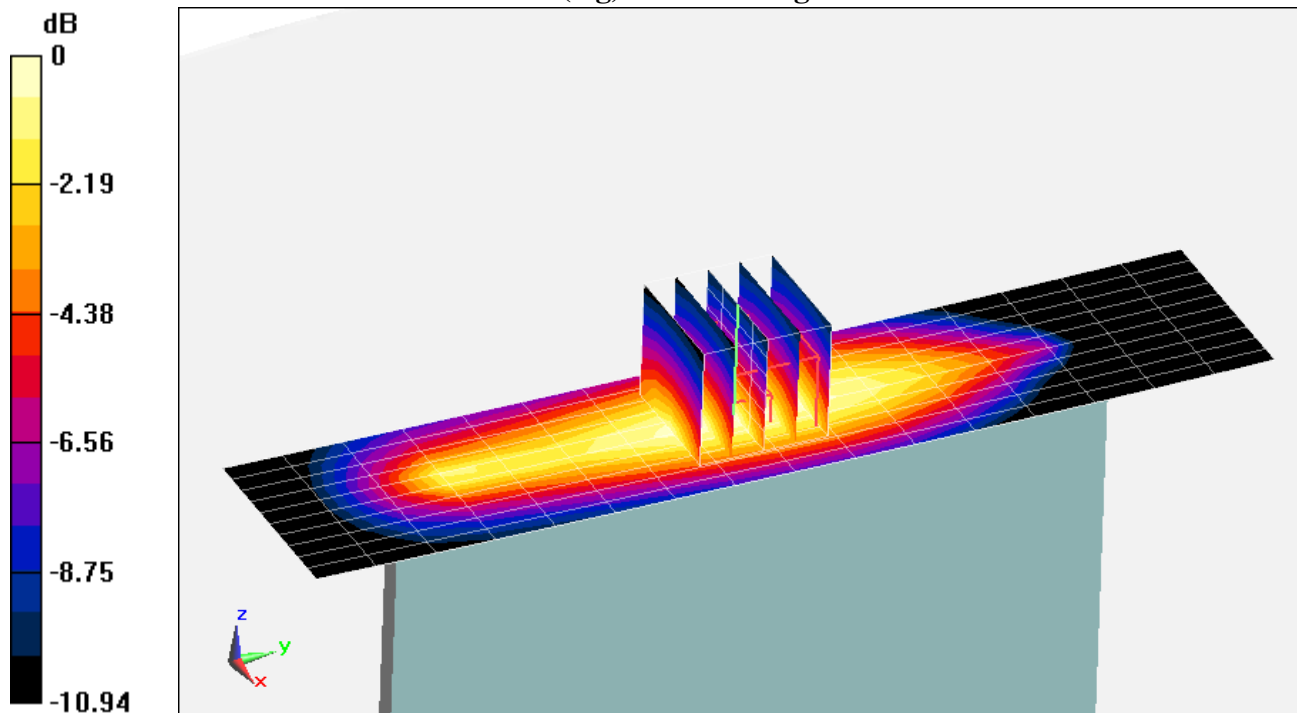
Area Scan (11x17x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

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

Reference Value = 16.915 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.416 W/kg

SAR(1 g) = 0.246 W/kg



0 dB = 0.305 W/kg = -5.16 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT807P; Type: Portable Tablet; Serial: FCC#2

Communication System: UID 0, LTE BAND 25; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1882.5 \text{ MHz}$; $\sigma = 1.52 \text{ S/m}$; $\epsilon_r = 52.712$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 21 mm

Test Date: 07-07-2014; Ambient Temp: 22.4°C; Tissue Temp: 22.1°C

Probe: ES3DV3 - SN3288; ConvF(4.82, 4.82, 4.82); Calibrated: 9/23/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

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

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

Mode: LTE Band 25 (PCS), Body SAR, Back side, Mid.ch
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset

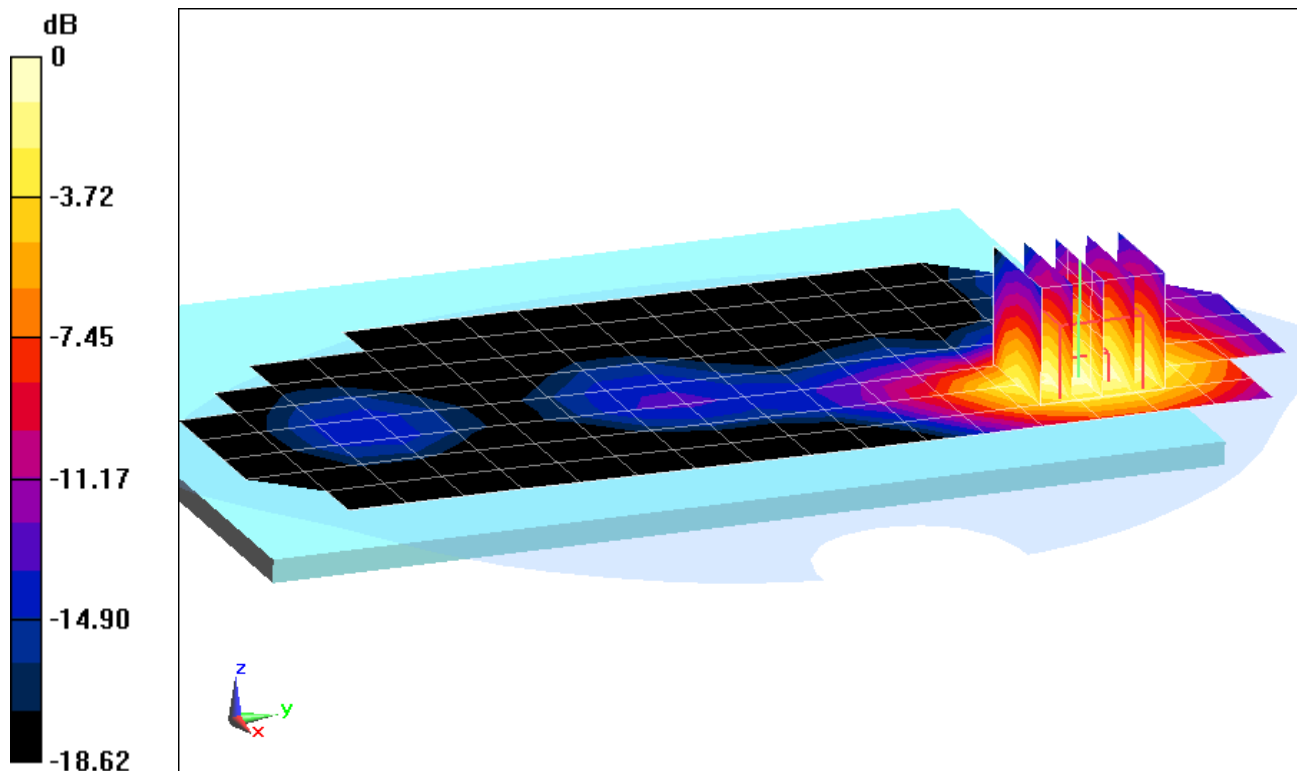
Area Scan (9x21x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 22.61 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.717 W/kg



0 dB = 0.857 W/kg = -0.67 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT807P; Type: Portable Tablet; Serial: FCC#8

Communication System: UID 0, LTE Band 41 (0); Frequency: 2636.5 MHz; Duty Cycle: 1:1.58

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2636.5 \text{ MHz}$; $\sigma = 2.283 \text{ S/m}$; $\epsilon_r = 51.292$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-16-2014; Ambient Temp: 23.2°C; Tissue Temp: 22.9°C

Probe: ES3DV3 - SN3319; ConvF(4.05, 4.05, 4.05); Calibrated: 4/17/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 4/11/2014

Phantom: ELI left; Type: QDOVA002AA; Serial: TP:1202

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7164)

Mode: LTE Band 41, Body SAR, Back side, Mid-High.ch
20 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset

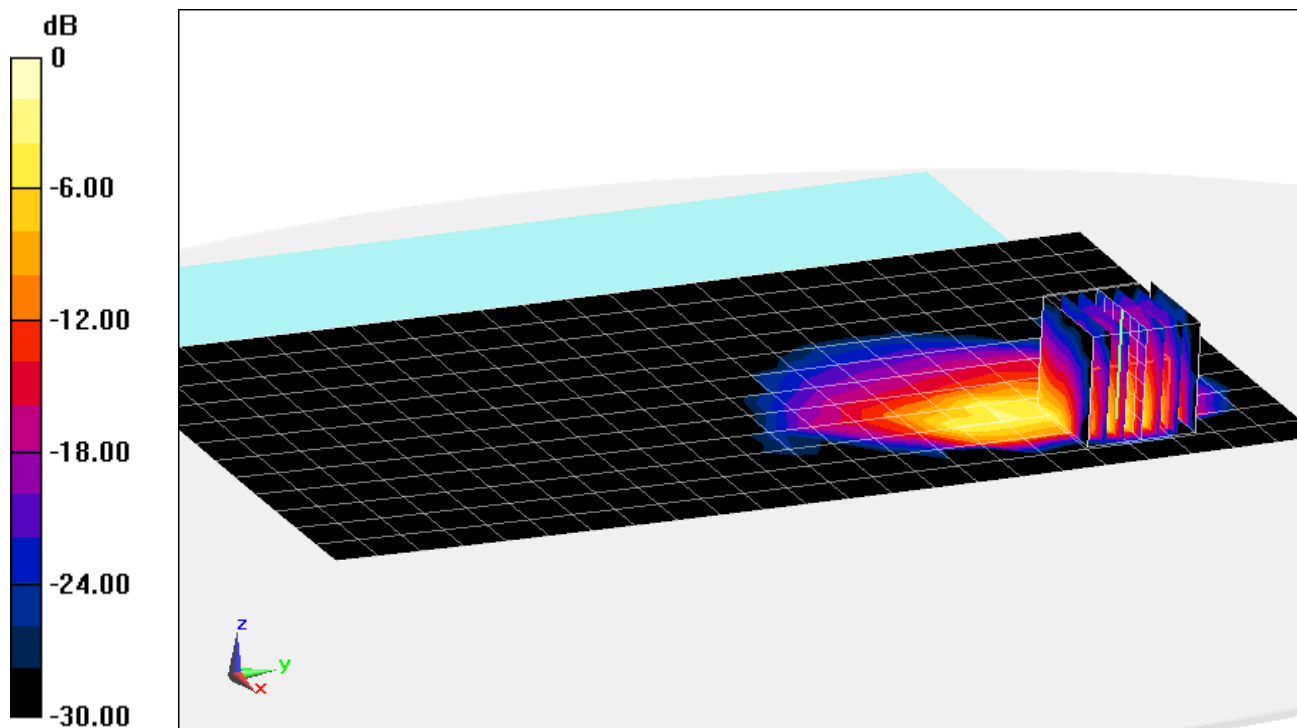
Area Scan (13x24x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 15.282 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.424 W/kg



0 dB = 0.603 W/kg = -2.20 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT807P; Type: Portable Tablet; Serial: FCC #7

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

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2437 \text{ MHz}$; $\sigma = 1.932 \text{ S/m}$; $\epsilon_r = 51.735$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-24-2014; Ambient Temp: 20.9°C; Tissue Temp: 21.4°C

Probe: ES3DV3 - SN3213; ConvF(4.26, 4.26, 4.26); Calibrated: 4/11/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

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

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

Mode: IEEE 802.11n, Body SAR, Ch 06, 1 Mbps, Back Side, MIMO

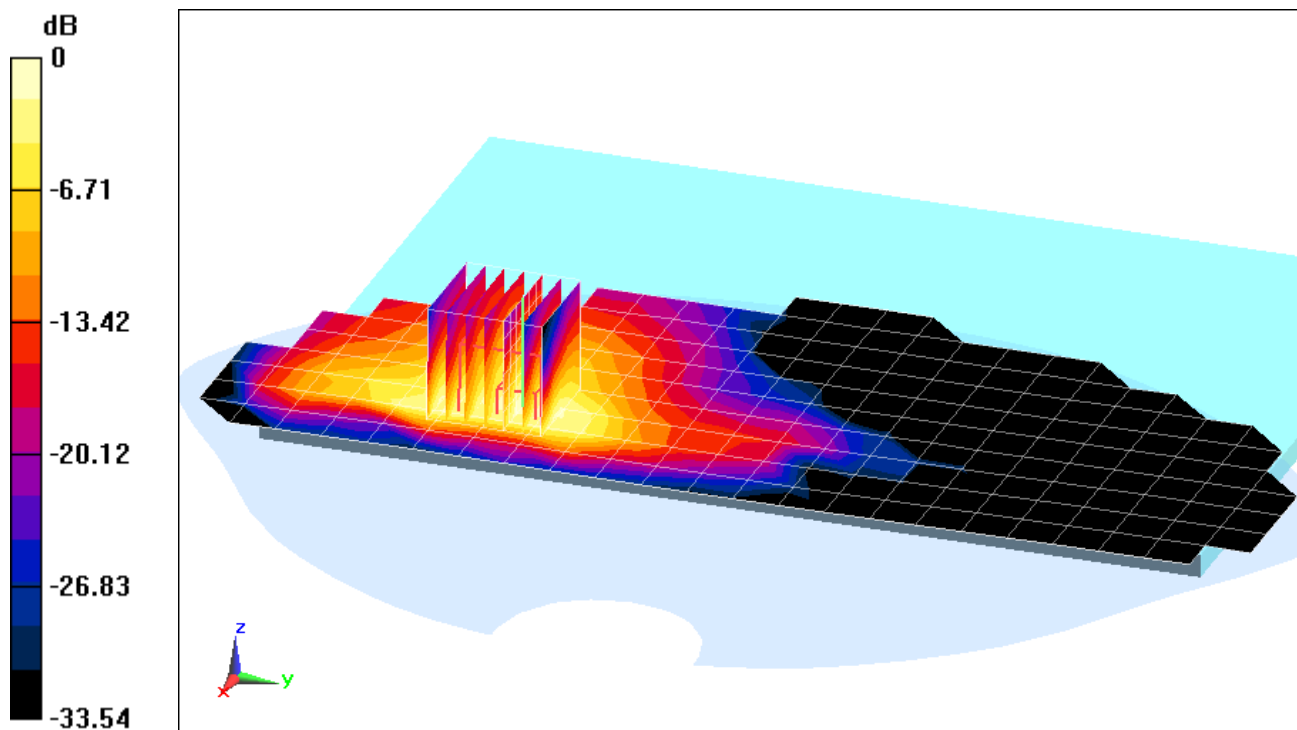
Area Scan (11x24x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 16.619 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.538 W/kg



0 dB = 0.705 W/kg = -1.52 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT807P; Type: Portable Tablet; Serial: FCC #7

Communication System: UID 0, IEEE 802.11a 5.2-5.8 GHz Band; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used:

$f = 5825 \text{ MHz}$; $\sigma = 6.31 \text{ S/m}$; $\epsilon_r = 46.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-23-2014; Ambient Temp: 22.6°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN3920; ConvF(4, 4, 4); Calibrated: 12/18/2013;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 12/12/2013

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1357

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

Mode: IEEE 802.11a, 5.8 GHz, Body SAR, Ch 165, 6 Mbps, Back Side, Ant 1

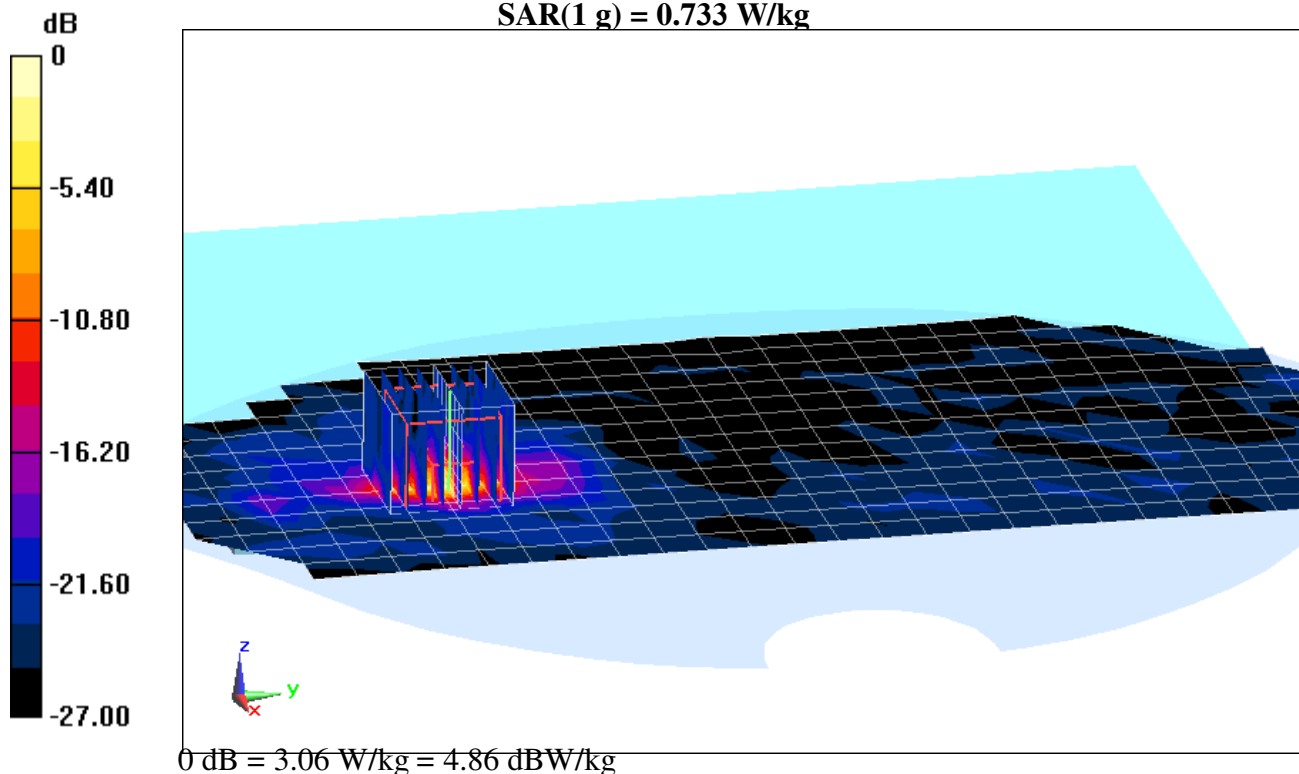
Area Scan (14x30x1): Measurement grid: dx=10mm, dy=10mm

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

Reference Value = 13.219 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 6.08 W/kg

SAR(1 g) = 0.733 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT807P; Type: Portable Tablet; Serial: FCC #7

Communication System: UID 0, IEEE 802.11a 5.2-5.8 GHz Band; Frequency: 5660 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used:

$f = 5660 \text{ MHz}$; $\sigma = 6.1 \text{ S/m}$; $\epsilon_r = 46.557$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-23-2014; Ambient Temp: 22.6°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN3920; ConvF(3.62, 3.62, 3.62); Calibrated: 12/18/2013;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 12/12/2013

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1357

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

Mode: IEEE 802.11a, 5.5 GHz, Body SAR, Ch 132, 6 Mbps, Back Side, Ant 1

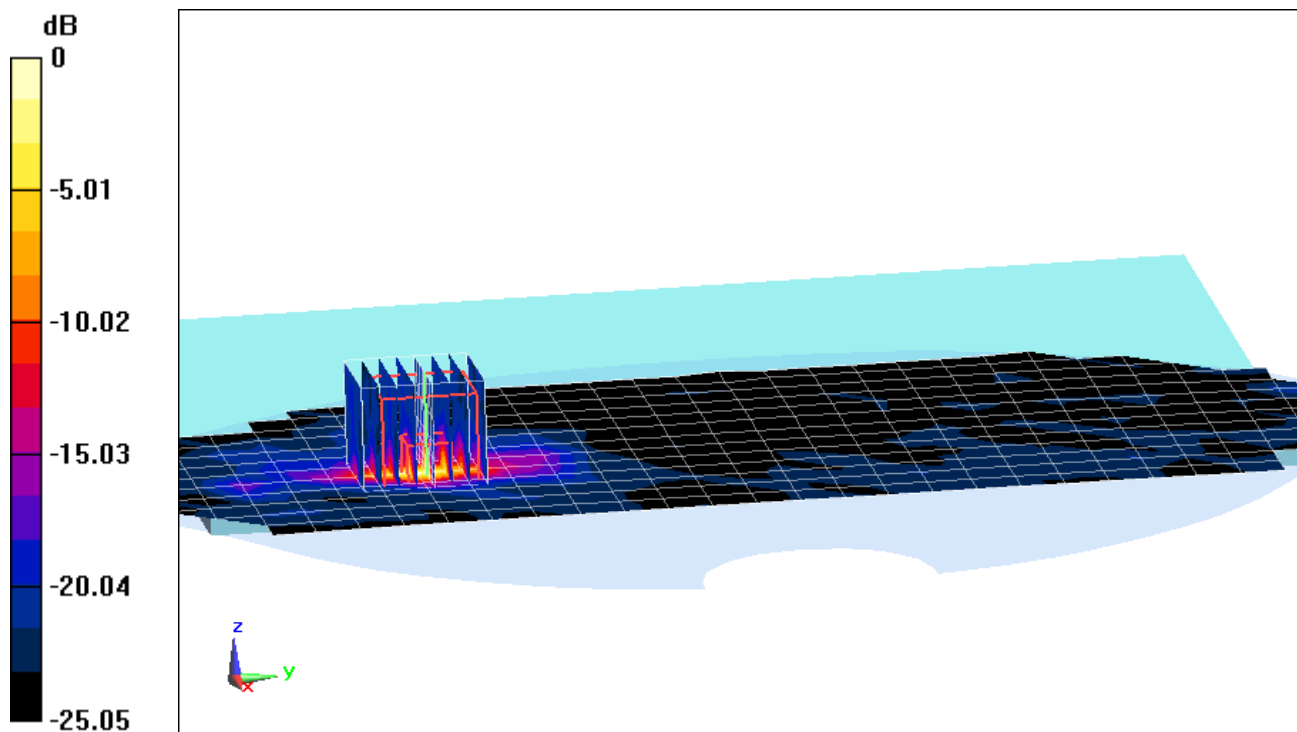
Area Scan (14x30x1): Measurement grid: dx=10mm, dy=10mm

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

Reference Value = 11.581 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 4.59 W/kg

SAR(1 g) = 0.595 W/kg



0 dB = 2.37 W/kg = 3.75 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMT807P; Type: Portable Tablet; Serial: FCC #7

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2480 \text{ MHz}$; $\sigma = 1.987 \text{ S/m}$; $\epsilon_r = 51.585$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-24-2014; Ambient Temp: 20.9°C; Tissue Temp: 21.4°C

Probe: ES3DV3 - SN3213; ConvF(4.26, 4.26, 4.26); Calibrated: 4/11/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

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

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

Mode: Bluetooth, Body SAR, Ch 78, 1 Mbps, Back Side

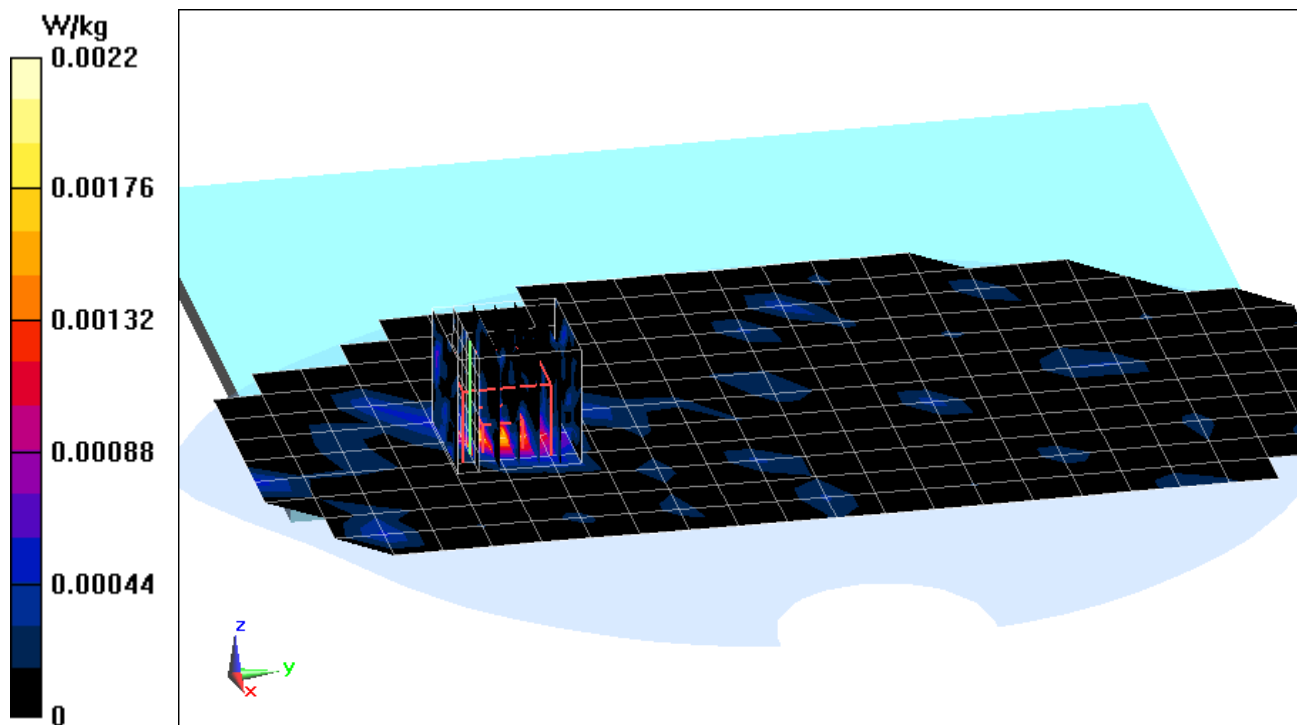
Area Scan (13x23x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 0.884 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.00800 W/kg

SAR(1 g) = 0.00132 W/kg



APPENDIX B: SYSTEM VERIFICATION

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:

$f = 835 \text{ MHz}$; $\sigma = 0.994 \text{ S/m}$; $\epsilon_r = 53.72$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06-16-2014; Ambient Temp: 22.3°C; Tissue Temp: 22.3°C

Probe: ES3DV3 - SN3332; ConvF(6.08, 6.08, 6.08); Calibrated: 11/25/2013;

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

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

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7164)

835 MHz System Verification

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

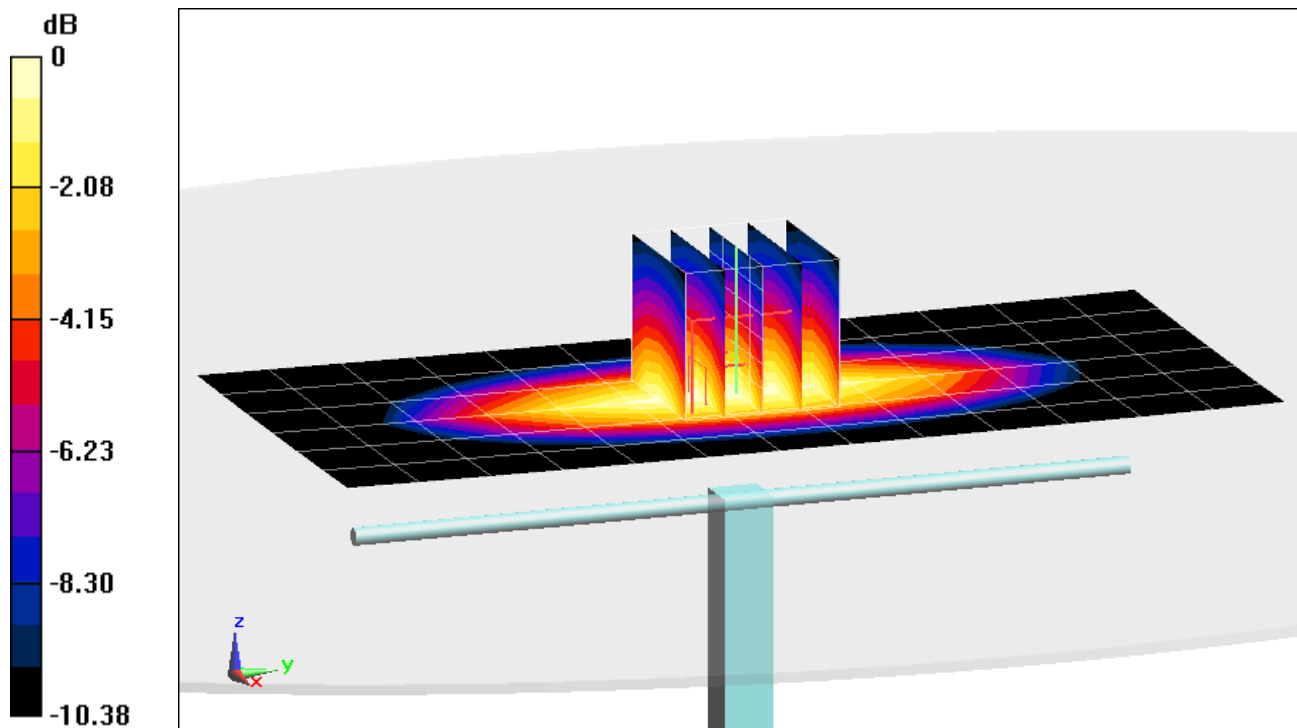
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Input Power = 20 dBm (100 mW)

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.997 W/kg

Deviation = 6.75%



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

PCTEST ENGINEERING LABORATORY, INC.

DUT: SAR Dipole 1900 MHz; Type: D1900V2; Serial: 5d148

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

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.499 \text{ S/m}$; $\epsilon_r = 51.466$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-12-2014; Ambient Temp: 24.5°C; Tissue Temp: 24.0°C

Probe: ES3DV3 - SN3288; ConvF(4.82, 4.82, 4.82); Calibrated: 9/23/2013;

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

1900MHz System Verification

Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

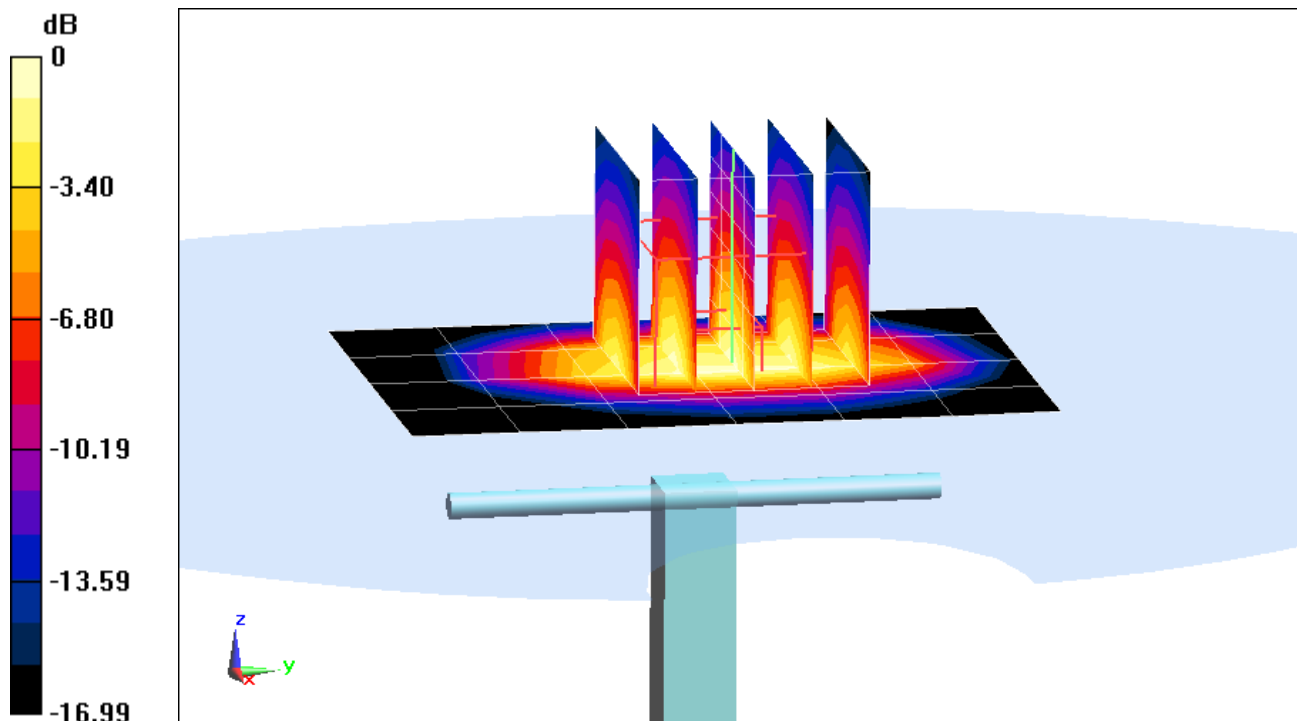
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power = 20 dBm (100 mW)

Peak SAR (extrapolated) = 7.14 W/kg

SAR(1 g) = 4.03 W/kg

Deviation 2.54%



0 dB = 4.49 W/kg = 6.52 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

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

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.949 \text{ S/m}$; $\epsilon_r = 51.693$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-24-2014; Ambient Temp: 20.9°C; Tissue Temp: 21.4°C

Probe: ES3DV3 - SN3213; ConvF(4.26, 4.26, 4.26); Calibrated: 4/11/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

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

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

2450MHz System Verification

Area Scan (6x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

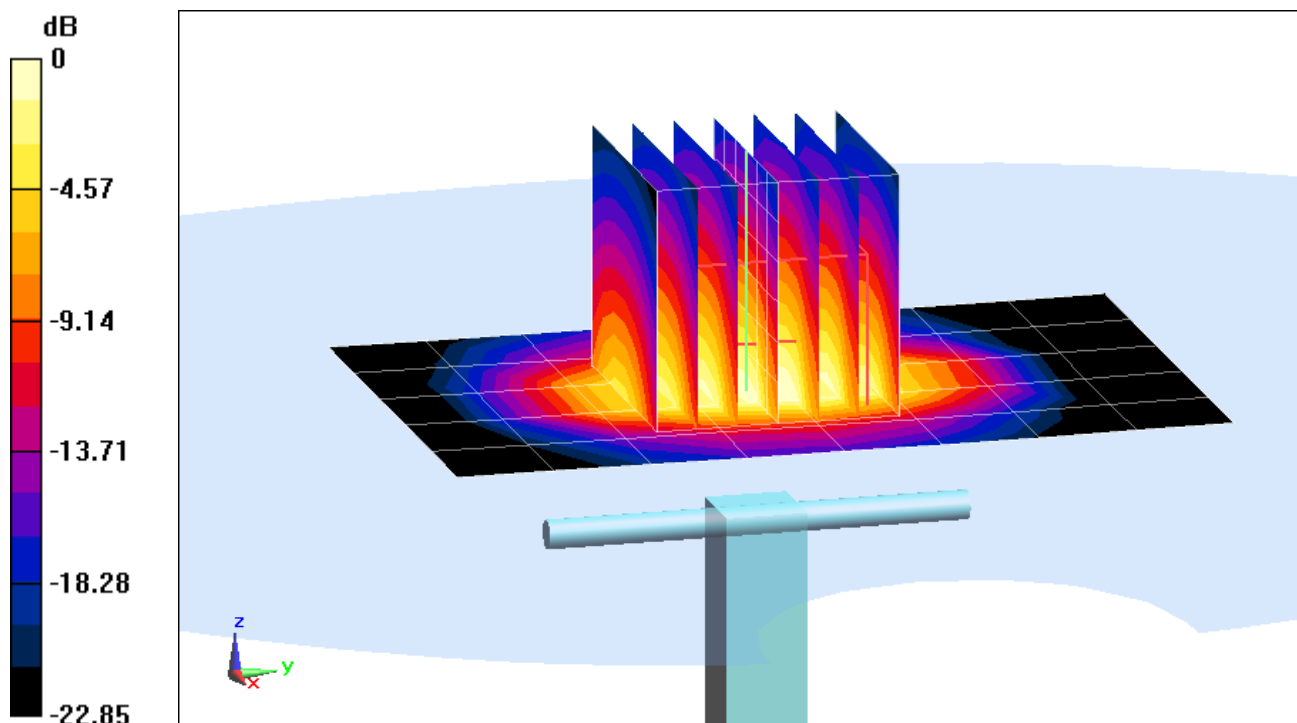
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Input Power = 20 dBm (100 mW)

Peak SAR (extrapolated) = 11.3 W/kg

SAR(1 g) = 5.36 W/kg

Deviation = 3.68%



0 dB = 6.85 W/kg = 8.36 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1004

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2600 \text{ MHz}$; $\sigma = 2.231 \text{ S/m}$; $\epsilon_r = 51.504$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-16-2014; Ambient Temp: 23.2°C; Tissue Temp: 22.9°C

Probe: ES3DV3 - SN3319; ConvF(4.05, 4.05, 4.05); Calibrated: 4/17/2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 4/11/2014

Phantom: ELI left; Type: QDOVA002AA; Serial: TP:1202

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7164)

2600 MHz System Verification

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

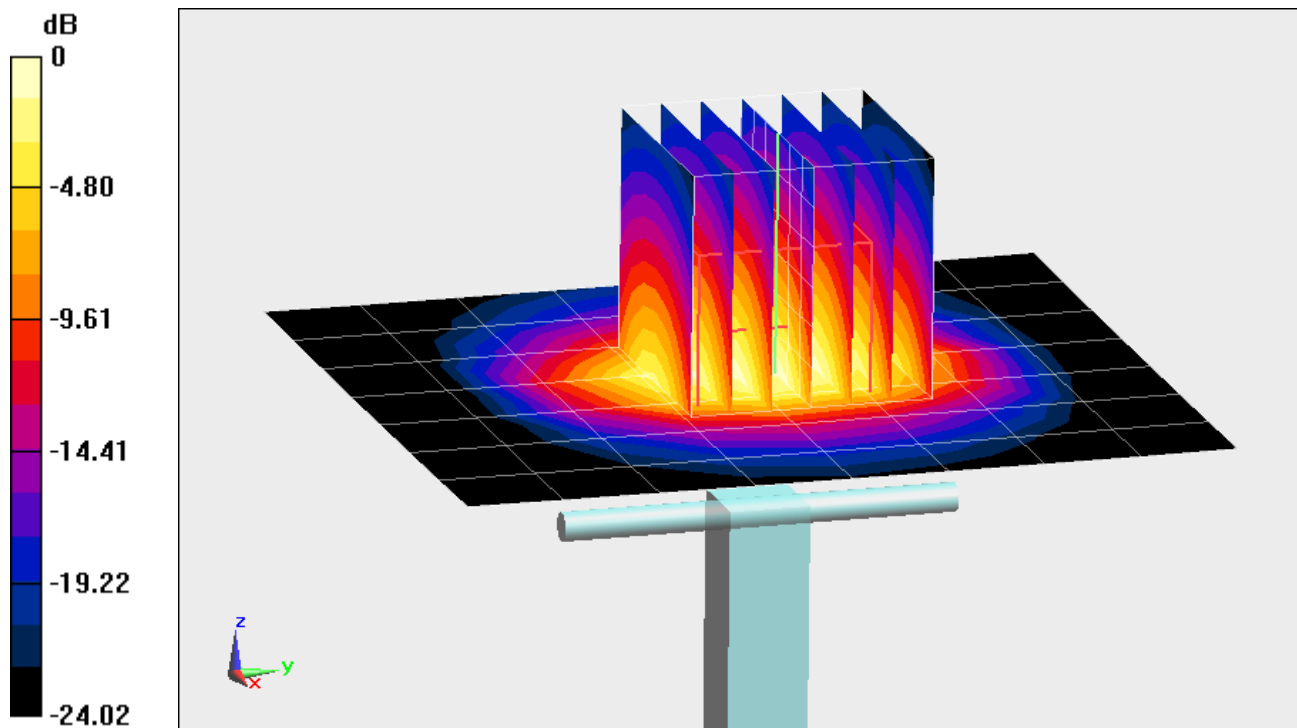
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Input Power = 20 dBm (100 mW)

Peak SAR (extrapolated) = 13.5 W/kg

SAR(1 g) = 6.06 W/kg

Deviation = 6.88%



0 dB = 8.07 W/kg = 9.07 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5200 MHz; Type: D5GHzV2; Serial: 1007

Communication System: UID 0, CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used:

$f = 5200 \text{ MHz}$; $\sigma = 5.5 \text{ S/m}$; $\epsilon_r = 47.385$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-23-2014; Ambient Temp: 22.5°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN3920; ConvF(4.23, 4.23, 4.23); Calibrated: 12/18/2013;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 12/12/2013

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1357

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

5200MHz System Verification

Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm

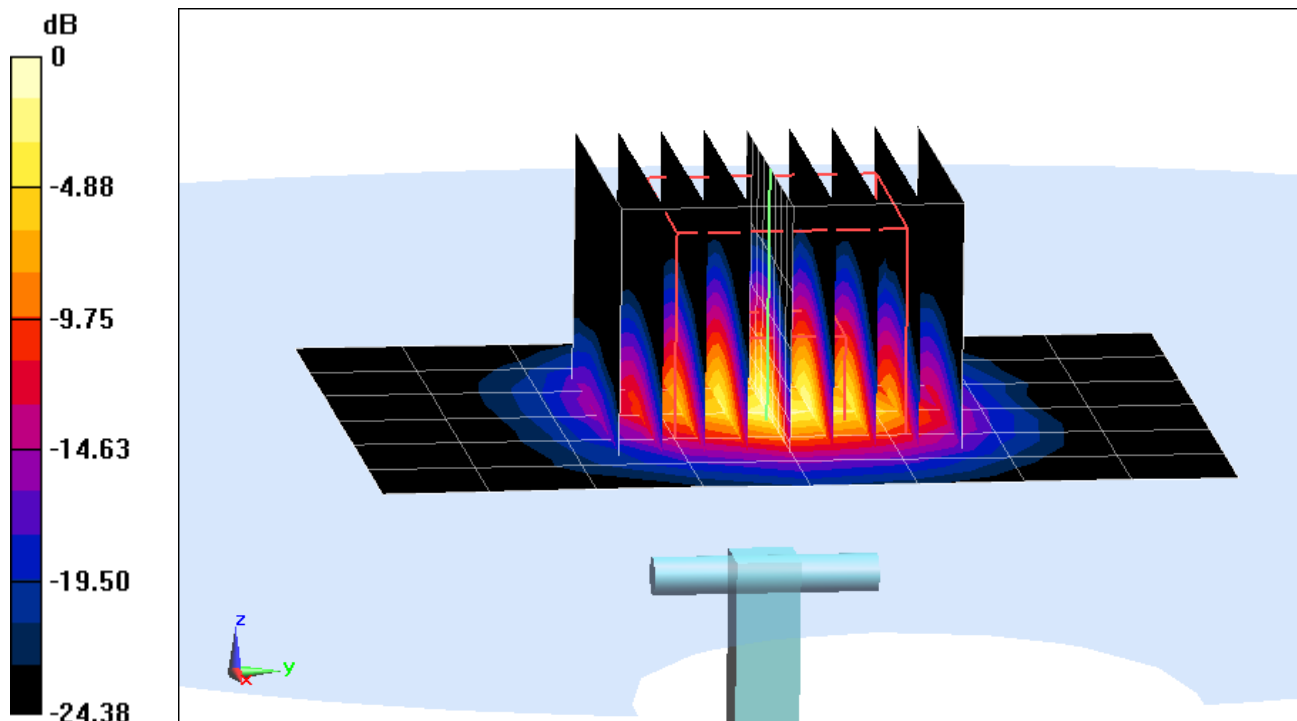
Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Input Power = 20 dBm (100 mW)

Peak SAR (extrapolated) = 32.5 W/kg

SAR(1 g) = 7.35 W/kg

Deviation = 1.24%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5300 MHz; Type: D5GHzV2; Serial: 1007

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

Medium: 5 GHz Body Medium parameters used:

$f = 5300 \text{ MHz}$; $\sigma = 5.62 \text{ S/m}$; $\epsilon_r = 47.117$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-23-2014; Ambient Temp: 22.6°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN3920; ConvF(4.11, 4.11, 4.11); Calibrated: 12/18/2013;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 12/12/2013

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1357

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

5300MHz System Verification

Area Scan (7x9x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

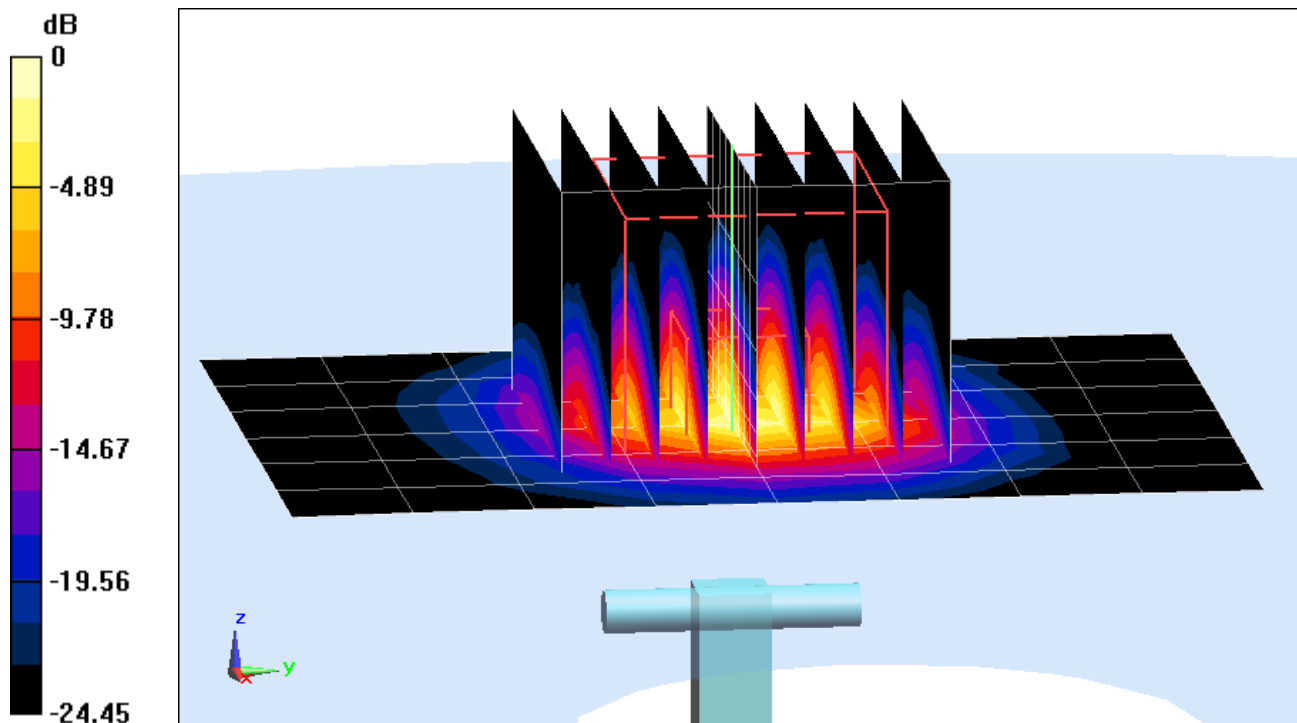
Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Input Power = 20 dBm (100 mW)

Peak SAR (extrapolated) = 33.0 W/kg

SAR(1 g) = 7.22 W/kg

Deviation -3.35%



0 dB = 18.1 W/kg = 12.58 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5500 MHz; Type: D5GHzV2; Serial: 1007

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

Medium: 5 GHz Body Medium parameters used:

$f = 5500 \text{ MHz}$; $\sigma = 5.873 \text{ S/m}$; $\epsilon_r = 46.816$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-23-2014; Ambient Temp: 22.6°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN3920; ConvF(3.8, 3.8, 3.8); Calibrated: 12/18/2013;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 12/12/2013

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1357

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

5500MHz System Verification

Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm

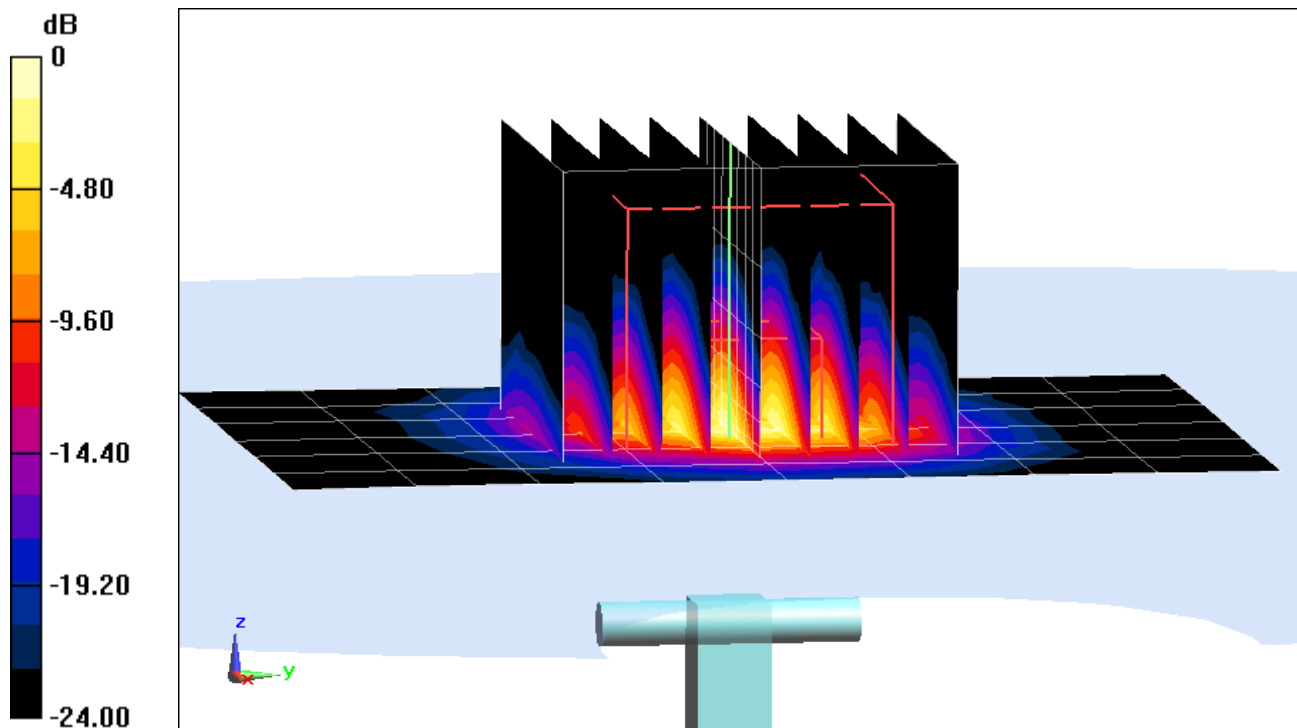
Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Input Power = 20 dBm (100 mW)

Peak SAR (extrapolated) = 34.9 W/kg

SAR(1 g) = 7.53 W/kg

Deviation = -0.79%



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

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: 1007

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

Medium: 5 GHz Body Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 6.009 \text{ S/m}$; $\epsilon_r = 46.678$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-23-2014; Ambient Temp: 22.6°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN3920; ConvF(3.62, 3.62, 3.62); Calibrated: 12/18/2013;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 12/12/2013

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1357

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

5600MHz System Verification

Area Scan (7x9x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

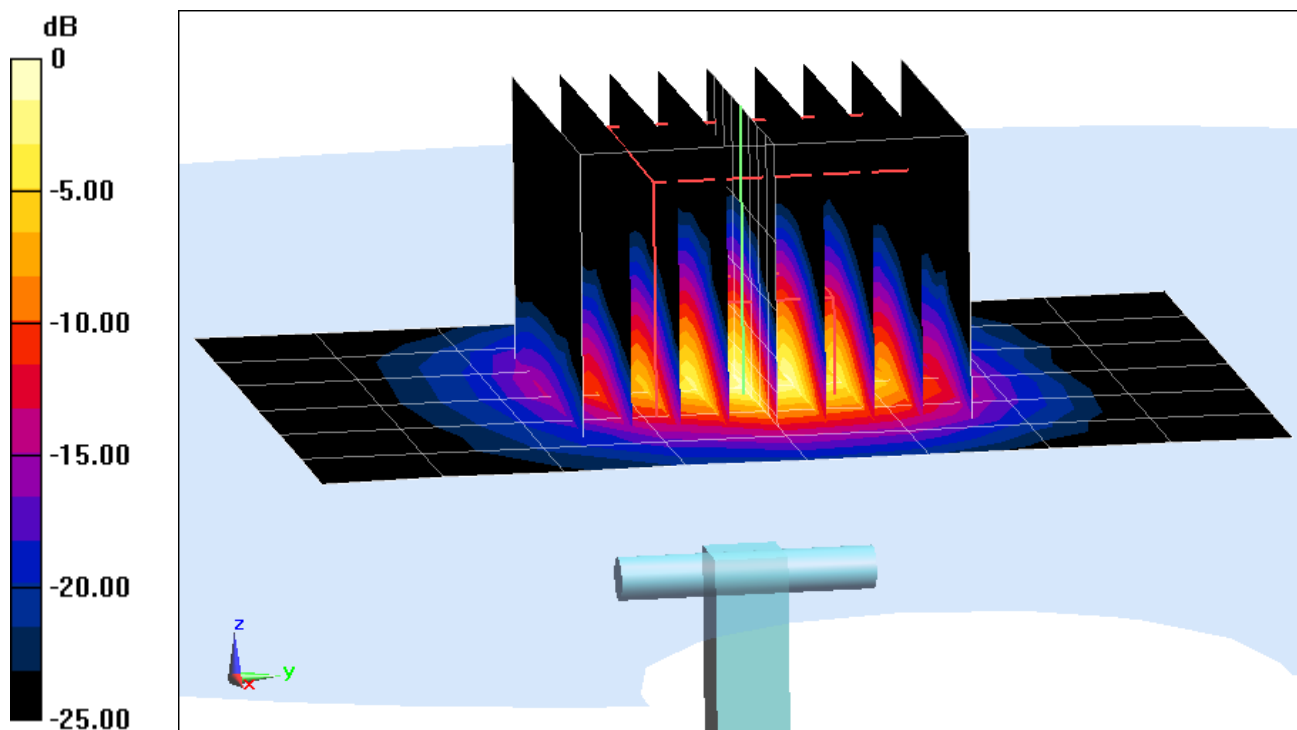
Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Input Power = 20 dBm (100 mW)

Peak SAR (extrapolated) = 36.2 W/kg

SAR(1 g) = 7.84 W/kg

Deviation = 1.42%



0 dB = 20.0 W/kg = 13.01 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5800 MHz; Type: D5GHzV2; Serial: 1007

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

Medium: 5 GHz Body Medium parameters used:

$f = 5800 \text{ MHz}$; $\sigma = 6.287 \text{ S/m}$; $\epsilon_r = 46.323$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-23-2014; Ambient Temp: 22.6°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN3920; ConvF(4, 4, 4); Calibrated: 12/18/2013;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 12/12/2013

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1357

Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.10 (7164)

5800MHz System Verification

Area Scan (7x9x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

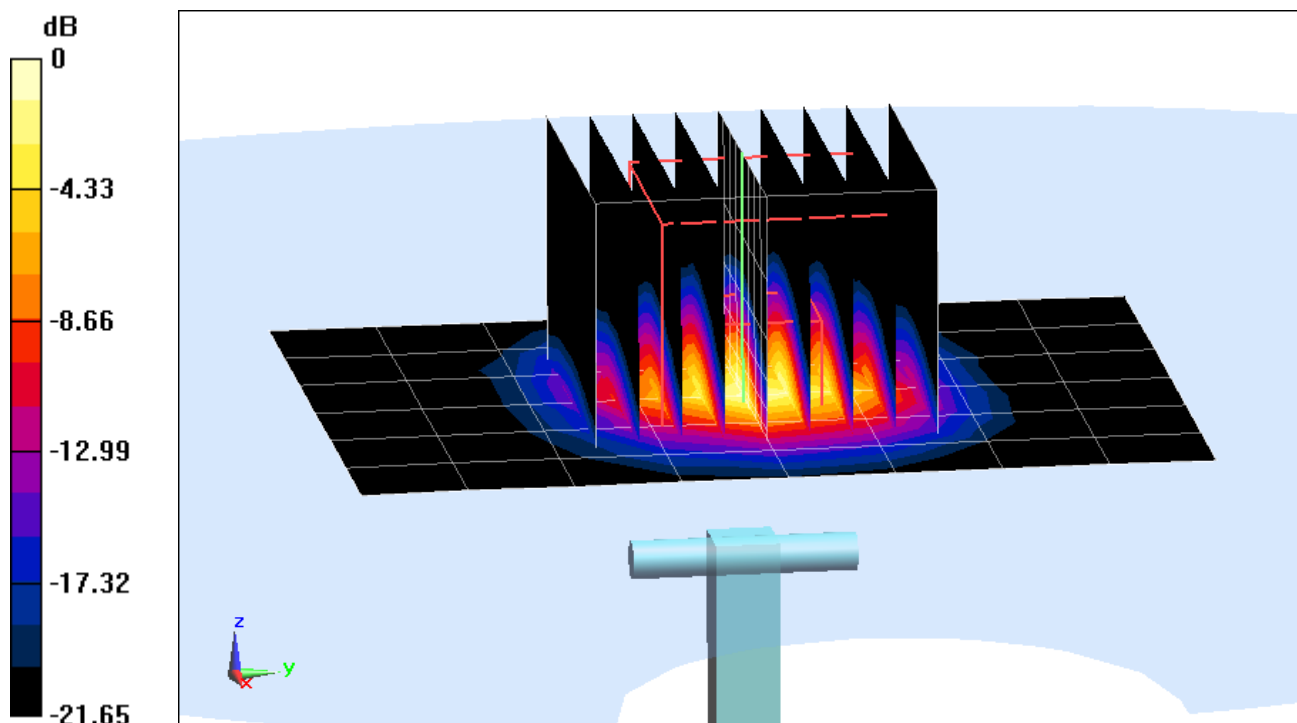
Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Input Power = 20 dB (100 mW)

Peak SAR (extrapolated) = 34.2 W/kg

SAR(1 g) = 7.06 W/kg

Deviation = -3.16%



0 dB = 18.1 W/kg = 12.58 dBW/kg