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SAR EVALUATION REPORT

Applicant Name:
Apple, Inc.
One Apple Park Way
Cupertino, CA 95014

Date of Testing:
12/16/2019 – 01/21/2020
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C1912170051-01-R2.BCG

FCC ID:	**BCGA2068**
APPLICANT:	**APPLE, INC.**

DUT Type:	Tablet Device
Application Type:	Certification
FCC Rule Part(s):	CFR §2.1093
Model:	A2068

Equipment Class	Band & Mode	Tx Frequency	SAR
			1g Body (W/kg)
PCB	GPRS/EDGE 850	824.20 - 848.80 MHz	1.11
PCB	GPRS/EDGE 1900	1850.20 - 1909.80 MHz	1.08
PCB	UMTS 850	826.40 - 846.60 MHz	1.17
PCB	UMTS 1750	1712.4 - 1752.6 MHz	1.10
PCB	UMTS 1900	1852.4 - 1907.6 MHz	1.16
PCB	LTE Band 71	665.5 - 695.5 MHz	1.07
PCB	LTE Band 12	699.7 - 715.3 MHz	1.13
PCB	LTE Band 17	706.5 - 713.5 MHz	N/A
PCB	LTE Band 13	779.5 - 784.5 MHz	1.14
PCB	LTE Band 14	790.5 - 795.5 MHz	1.11
PCB	LTE Band 26 (Cell)	814.7 - 848.3 MHz	1.04
PCB	LTE Band 5 (Cell)	824.7 - 848.3 MHz	1.01
PCB	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	1.09
PCB	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	1.07
PCB	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	1.19
PCB	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	1.13
PCB	LTE Band 30	2307.5 - 2312.5 MHz	1.13
PCB	LTE Band 7	2502.5 - 2567.5 MHz	1.17
PCB	LTE Band 41	2498.5 - 2687.5 MHz	1.18
CBE	LTE Band 48	3552.5 - 3697.5 MHz	1.19
DTS	2.4 GHz WLAN	2412 - 2472 MHz	1.16
NII	U-NII-1	5180 - 5240 MHz	N/A
NII	U-NII-2A	5260 - 5320 MHz	1.12
NII	U-NII-2C	5500 - 5720 MHz	1.18
NII	U-NII-3	5745 - 5825 MHz	1.18
DSS/DTS	Bluetooth	2402 - 2480 MHz	1.18
Simultaneous SAR per KDB 690783 D01v01r03:			1.59

Note: This revised Test Report (S/N: 1C1912170051-01-R2.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

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

Randy Ortanez
President

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

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GPRS/EDGE 850	Data	824.20 - 848.80 MHz
GPRS/EDGE 1900	Data	1850.20 - 1909.80 MHz
UMTS 850	Data	826.40 - 846.60 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz

1.2 Power Reduction for SAR

This device uses the manufacturer's proprietary motion detect mode to determine proximity to the user's body and set the licensed power level accordingly for SAR compliance. When being used in the hand or the body, the output power for licensed transmitters will always be reduced. Per FCC KDB Guidance, SAR testing was performed only using reduced output powers following the test positions in KDB Publication 616217.

This device additionally utilizes a power reduction mechanism for Bluetooth and WLAN operations. When WLAN/Bluetooth is operating simultaneously with certain combinations of 2G/3G/4G and 5 GHz WLAN antennas,

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the output power of is permanently reduced. SAR evaluations were additionally performed at the maximum allowed output power for these scenarios to evaluate simultaneous transmission compliance.

Detailed descriptions of the power reduction mechanisms are included in the operational description. The power reduction mechanisms were confirmed during the SAR Evaluation. Appendix G contains a summary of the verification results.

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 D01v06.

1.3.1 2G/3G/4G Output Power for Portable Use Conditions

A. Antenna 1

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8-PSK (dBm)	
		1 TX Slots	*2 TX Slots*	*1 TX Slots*	*2 TX Slots*
GPRS/EDGE 850	Maximum	**29.80**	**26.80**	**25.75**	**24.75**
	Nominal	**29.05**	**26.05**	**25.00**	**24.00**
Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	*3GPP HSDPA*	*3GPP HSUPA*	*3GPP DC-HSDPA*
UMTS Band 5 (850 MHz)	Maximum	**20.60**	**20.60**	**20.60**	**20.60**
	Nominal	**20.10**	**20.10**	**20.10**	**20.10**

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Mode / Band		Modulated Average (dBm)
LTE Band 71	Maximum	**20.00**
	Nominal	**19.50**
LTE Band 12	Maximum	**21.50**
	Nominal	**21.00**
LTE Band 17	Maximum	**21.50**
	Nominal	**21.00**
LTE Band 13	Maximum	**21.50**
	Nominal	**21.00**
LTE Band 14	Maximum	**21.50**
	Nominal	**21.00**
LTE Band 5 (Cell)	Maximum	**20.60**
	Nominal	**20.10**
LTE Band 5 (Cell) Intra-band ULCA	Maximum	**20.60**
	Nominal	**19.60**
LTE Band 26 (Cell)	Maximum	**20.60**
	Nominal	**20.10**
LTE Band 48	Maximum	**15.30**
	Nominal	**14.30**

B. Antenna 3

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8-PSK (dBm)	
		1 TX Slots	*2 TX Slots*	*1 TX Slots*	*2 TX Slots*
GPRS/EDGE 850	Maximum	**29.00**	**27.30**	**27.75**	**26.75**
	Nominal	**28.25**	**26.55**	**27.00**	**26.00**

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Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	*3GPP HSDPA*	*3GPP HSUPA*	*3GPP DC-HSDPA*
UMTS Band 5 (850 MHz)	Maximum	**20.30**	**20.30**	**20.30**	**20.30**
	Nominal	**19.80**	**19.80**	**19.80**	**19.80**

Mode / Band		Modulated Average (dBm)
LTE Band 71	Maximum	**22.00**
	Nominal	**21.50**
LTE Band 12	Maximum	**20.00**
	Nominal	**19.50**
LTE Band 17	Maximum	**20.00**
	Nominal	**19.50**
LTE Band 13	Maximum	**20.30**
	Nominal	**19.80**
LTE Band 14	Maximum	**20.30**
	Nominal	**19.80**
LTE Band 5 (Cell)	Maximum	**20.30**
	Nominal	**19.80**
LTE Band 5 (Cell) Intra-band ULCA	Maximum	**20.30**
	Nominal	**19.30**
LTE Band 26 (Cell)	Maximum	**20.30**
	Nominal	**19.80**
LTE Band 48	Maximum	**16.50**
	Nominal	**16.00**

C. Antenna 2A

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8-PSK (dBm)	
		1 TX Slots	*2 TX Slots*	*1 TX Slots*	*2 TX Slots*
GPRS/EDGE 1900	Maximum	**24.80**	**21.80**	**23.25**	**21.80**
	Nominal	**24.05**	**21.05**	**22.50**	**21.05**

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Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	*3GPP HSDPA*	*3GPP HSUPA*	*3GPP DC-HSDPA*
UMTS Band 4 (1750 MHz)	Maximum	**14.75**	**14.75**	**14.75**	**14.75**
	Nominal	**13.75**	**13.75**	**13.75**	**13.75**
UMTS Band 2 (1900 MHz)	Maximum	**15.10**	**15.10**	**15.10**	**15.10**
	Nominal	**14.10**	**14.10**	**14.10**	**14.10**

Mode / Band		Modulated Average (dBm)
LTE Band 4 (AWS)	Maximum	**14.75**
	Nominal	**13.75**
LTE Band 66 (AWS)	Maximum	**14.75**
	Nominal	**13.75**
LTE Band 25 (PCS)	Maximum	**15.10**
	Nominal	**14.10**
LTE Band 2 (PCS)	Maximum	**15.10**
	Nominal	**14.10**
LTE Band 30	Maximum	**13.00**
	Nominal	**12.00**
LTE Band 7	Maximum	**12.70**
	Nominal	**11.70**
LTE Band 7 Intra-band ULCA	Maximum	**12.70**
	Nominal	**11.70**
LTE Band 41 (PC3)	Maximum	**14.70**
	Nominal	**13.70**
LTE Band 41 PC3 Intra-band ULCA	Maximum	**14.70**
	Nominal	**13.70**
LTE Band 41 (PC2)	Maximum	**14.70**
	Nominal	**13.70**
LTE Band 41 (PC2) Intra-band ULCA	Maximum	**14.70**
	Nominal	**13.70**

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D. Antenna 2B

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8-PSK (dBm)	
		1 TX Slots	*2 TX Slots*	*1 TX Slots*	*2 TX Slots*
GPRS/EDGE 1900	Maximum	**23.50**	**20.50**	**23.25**	**20.50**
	Nominal	**22.75**	**19.75**	**22.50**	**19.75**
Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	*3GPP HSDPA*	*3GPP HSUPA*	*3GPP DC-HSDPA*
UMTS Band 4 (1750 MHz)	Maximum	**14.90**	**14.90**	**14.90**	**14.90**
	Nominal	**13.90**	**13.90**	**13.90**	**13.90**
UMTS Band 2 (1900 MHz)	Maximum	**14.10**	**14.10**	**14.10**	**14.10**
	Nominal	**13.10**	**13.10**	**13.10**	**13.10**

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Mode / Band		Modulated Average (dBm)
LTE Band 4 (AWS)	Maximum	**14.90**
	Nominal	**13.90**
LTE Band 66 (AWS)	Maximum	**14.90**
	Nominal	**13.90**
LTE Band 25 (PCS)	Maximum	**14.10**
	Nominal	**13.10**
LTE Band 2 (PCS)	Maximum	**14.10**
	Nominal	**13.10**
LTE Band 30	Maximum	**13.40**
	Nominal	**12.40**
LTE Band 7	Maximum	**12.30**
	Nominal	**11.30**
LTE Band 7 Intra-band ULCA	Maximum	**12.30**
	Nominal	**11.30**
LTE Band 41 (PC3)	Maximum	**14.20**
	Nominal	**13.20**
LTE Band 41 (PC3) Intra-band ULCA	Maximum	**14.20**
	Nominal	**13.20**
LTE Band 41 (PC2)	Maximum	**14.20**
	Nominal	**13.20**
LTE Band 41 (PC2) Intra-band ULCA	Maximum	**14.20**
	Nominal	**13.20**
LTE Band 48	Maximum	**15.30**
	Nominal	**14.30**

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E. Antenna 4A

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8-PSK (dBm)	
		1 TX Slots	*2 TX Slots*	*1 TX Slots*	*2 TX Slots*
GPRS/EDGE 1900	Maximum	**23.90**	**20.90**	**23.90**	**20.90**
	Nominal	**23.15**	**20.15**	**23.15**	**20.15**
Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	*3GPP HSDPA*	*3GPP HSUPA*	*3GPP DC-HSDPA*
UMTS Band 4 (1750 MHz)	Maximum	**14.50**	**14.50**	**14.50**	**14.50**
	Nominal	**13.50**	**13.50**	**13.50**	**13.50**
UMTS Band 2 (1900 MHz)	Maximum	**14.90**	**14.90**	**14.90**	**14.90**
	Nominal	**13.90**	**13.90**	**13.90**	**13.90**

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Mode / Band		Modulated Average (dBm)
LTE Band 4 (AWS)	Maximum	**14.50**
	Nominal	**13.50**
LTE Band 66 (AWS)	Maximum	**14.50**
	Nominal	**13.50**
LTE Band 25 (PCS)	Maximum	**14.90**
	Nominal	**13.90**
LTE Band 2 (PCS)	Maximum	**14.90**
	Nominal	**13.90**
LTE Band 30	Maximum	**13.20**
	Nominal	**12.20**
LTE Band 7	Maximum	**12.50**
	Nominal	**11.50**
LTE Band 7 Intra-band ULCA	Maximum	**12.50**
	Nominal	**11.50**
LTE Band 41 (PC3)	Maximum	**14.20**
	Nominal	**13.20**
LTE Band 41 (PC3) Intra-band ULCA	Maximum	**14.20**
	Nominal	**13.20**
LTE Band 41 (PC2)	Maximum	**14.20**
	Nominal	**13.20**
LTE Band 41 (PC2) Intra-band ULCA	Maximum	**14.20**
	Nominal	**13.20**

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F. Antenna 4B

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8-PSK (dBm)	
		1 TX Slots	*2 TX Slots*	*1 TX Slots*	*2 TX Slots*
GPRS/EDGE 1900	Maximum	**24.00**	**21.00**	**24.00**	**21.00**
	Nominal	**23.25**	**20.25**	**23.25**	**20.25**
Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	*3GPP HSDPA*	*3GPP HSUPA*	*3GPP DC-HSDPA*
UMTS Band 4 (1750 MHz)	Maximum	**14.50**	**14.50**	**14.50**	**14.50**
	Nominal	**13.50**	**13.50**	**13.50**	**13.50**
UMTS Band 2 (1900 MHz)	Maximum	**14.70**	**14.70**	**14.70**	**14.70**
	Nominal	**13.70**	**13.70**	**13.70**	**13.70**

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Mode / Band		Modulated Average (dBm)
LTE Band 4 (AWS)	Maximum	**14.50**
	Nominal	**13.50**
LTE Band 66 (AWS)	Maximum	**14.50**
	Nominal	**13.50**
LTE Band 25 (PCS)	Maximum	**14.70**
	Nominal	**13.70**
LTE Band 2 (PCS)	Maximum	**14.70**
	Nominal	**13.70**
LTE Band 30	Maximum	**13.70**
	Nominal	**12.70**
LTE Band 7	Maximum	**13.30**
	Nominal	**12.30**
LTE Band 7 Intra-band ULCA	Maximum	**13.30**
	Nominal	**12.30**
LTE Band 41 (PC3)	Maximum	**15.90**
	Nominal	**15.40**
LTE Band 41 (PC3) Intra-band ULCA	Maximum	**15.90**
	Nominal	**14.90**
LTE Band 41 (PC2)	Maximum	**15.90**
	Nominal	**15.40**
LTE Band 41 (PC2) Intra-band ULCA	Maximum	**15.90**
	Nominal	**14.90**
LTE Band 48	Maximum	**16.30**
	Nominal	**15.80**

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1.3.2 4G Powers – Inter-band ULCA Active

A. Antenna 1

LTE Band 12	Maximum	**18.50**
	Nominal	**18.00**
LTE Band 13	Maximum	**18.50**
	Nominal	**18.00**
LTE Band 14	Maximum	**18.50**
	Nominal	**18.00**
LTE Band 5 (Cell)	Maximum	**17.60**
	Nominal	**17.10**

B. Antenna 3

Mode / Band		Modulated Average (dBm)
LTE Band 12	Maximum	**17.00**
	Nominal	**16.50**
LTE Band 13	Maximum	**17.30**
	Nominal	**16.80**
LTE Band 14	Maximum	**17.30**
	Nominal	**16.80**
LTE Band 5 (Cell)	Maximum	**17.30**
	Nominal	**16.80**

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C. Antenna 2A

Mode / Band		Modulated Average (dBm)
LTE Band 4 (AWS)	Maximum	**11.75**
	Nominal	**10.75**
LTE Band 66 (AWS)	Maximum	**11.75**
	Nominal	**10.75**
LTE Band 2 (PCS)	Maximum	**12.10**
	Nominal	**11.10**
LTE Band 30	Maximum	**10.00**
	Nominal	**9.00**
LTE Band 7	Maximum	**9.70**
	Nominal	**8.70**

D. Antenna 2B

Mode / Band		Modulated Average (dBm)
LTE Band 4 (AWS)	Maximum	**11.90**
	Nominal	**10.90**
LTE Band 66 (AWS)	Maximum	**11.90**
	Nominal	**10.90**
LTE Band 2 (PCS)	Maximum	**11.10**
	Nominal	**10.10**
LTE Band 30	Maximum	**10.40**
	Nominal	**9.40**
LTE Band 7	Maximum	**9.30**
	Nominal	**8.30**

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E. Antenna 4A

Mode / Band		Modulated Average (dBm)
LTE Band 4 (AWS)	Maximum	**11.50**
	Nominal	**10.50**
LTE Band 66 (AWS)	Maximum	**11.50**
	Nominal	**10.50**
LTE Band 2 (PCS)	Maximum	**11.90**
	Nominal	**10.90**
LTE Band 30	Maximum	**10.20**
	Nominal	**9.20**
LTE Band 7	Maximum	**9.50**
	Nominal	**8.50**

F. Antenna 4B

Mode / Band		Modulated Average (dBm)
LTE Band 4 (AWS)	Maximum	**11.50**
	Nominal	**10.50**
LTE Band 66 (AWS)	Maximum	**11.50**
	Nominal	**10.50**
LTE Band 2 (PCS)	Maximum	**11.70**
	Nominal	**10.70**
LTE Band 30	Maximum	**10.70**
	Nominal	**9.70**
LTE Band 7	Maximum	**10.30**
	Nominal	**9.30**

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1.3.3 Unlicensed Maximum Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix G

A. Antenna 2A

Mode/Band		Modulated Average - Single Tx Chain (dBm) - Antenna 2a
Bluetooth BDR/LE	Maximum	**14.00**
	Nominal	**12.50**
Bluetooth EDR	Maximum	**11.00**
	Nominal	**9.50**
Bluetooth HDR	Maximum	**7.50**
	Nominal	**6.00**

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Antenna 2a		
Channel		1-11	12	13
IEEE 802.11b (2.4 GHz)	Maximum	**13.00**		
	Nominal	**11.50**		
IEEE 802.11g (2.4 GHz)	Maximum	**13.00**	**12.00**	**3.00**
	Nominal	**11.50**	**10.50**	**1.50**
IEEE 802.11n (2.4 GHz)	Maximum	**13.00**	**12.00**	**3.00**
	Nominal	**11.50**	**10.50**	**1.50**
IEEE 802.11ax SU (2.4 GHz)	Maximum	**13.00**	**11.00**	**N/A**
	Nominal	**11.50**	**9.50**	**N/A**

Mode/Band		Modulated Average - MIMO (dBm) - Antenna 2a
Bluetooth BDR/LE	Maximum	**14.00**
	Nominal	**12.50**
Bluetooth EDR	Maximum	**11.00**
	Nominal	**9.50**
Bluetooth HDR	Maximum	**7.50**
	Nominal	**6.00**

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers at indicated above.

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Mode / Band		Modulated Average - MIMO (dBm) - Antenna 2a			
		20 MHz Bandwidth			
Channel		1	2-11	12	13
IEEE 802.11g (2.4 GHz)	Maximum	**13.00**		**10.50**	**-0.50**
	Nominal	**11.50**		**9.00**	**-2.00**
IEEE 802.11n (2.4 GHz)	Maximum	**13.00**		**10.50**	**-0.50**
	Nominal	**11.50**		**9.00**	**-2.00**
IEEE 802.11ax SU (2.4 GHz)	Maximum	**10.00**	**13.00**	**8.00**	**N/A**
	Nominal	**8.50**	**11.50**	**6.50**	**N/A**

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers at indicated above.

B. Antenna 4A

Mode/Band		Modulated Average - Single Tx Chain (dBm) - Antenna 4a
Bluetooth BDR/LE	Maximum	**14.00**
	Nominal	**12.50**
Bluetooth EDR	Maximum	**13.50**
	Nominal	**12.00**
Bluetooth HDR	Maximum	**9.50**
	Nominal	**8.00**

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Antenna 4a		
Channel		1-11	12	13
IEEE 802.11b (2.4 GHz)	Maximum	**13.00**		
	Nominal	**11.50**		
IEEE 802.11g (2.4 GHz)	Maximum	**13.00**	**12.00**	**1.00**
	Nominal	**11.50**	**10.50**	**-0.50**
IEEE 802.11n (2.4 GHz)	Maximum	**13.00**	**12.00**	**1.00**
	Nominal	**11.50**	**10.50**	**-0.50**
IEEE 802.11ax SU (2.4 GHz)	Maximum	**13.00**	**11.00**	**N/A**
	Nominal	**11.50**	**9.50**	**N/A**

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Mode/Band		Modulated Average - MIMO (dBm) - Antenna 4a
Bluetooth BDR/LE	Maximum	**14.00**
	Nominal	**12.50**
Bluetooth EDR	Maximum	**13.50**
	Nominal	**12.00**
Bluetooth HDR	Maximum	**9.50**
	Nominal	**8.00**

Note: In MIMO operations, Antenna 4A transmits at maximum allowed powers at indicated above.

Mode / Band		Modulated Average - MIMO (dBm) - Antenna 4a			
		20 MHz Bandwidth			
Channel		1	2-11	12	13
IEEE 802.11g (2.4 GHz)	Maximum	**13.00**		**11.00**	**1.50**
	Nominal	**11.50**		**9.50**	**0.00**
IEEE 802.11n (2.4 GHz)	Maximum	**13.00**		**11.00**	**1.50**
	Nominal	**11.50**		**9.50**	**0.00**
IEEE 802.11ax SU (2.4 GHz)	Maximum	**12.00**	**13.00**	**10.00**	**N/A**
	Nominal	**10.50**	**11.50**	**8.50**	**N/A**

Note: In MIMO operations, Antenna 4A transmits at maximum allowed powers at indicated above.

C. 5GHz ANTlower

Mode / Band		Modulated Average - Single Tx Chain (dBm) - 5GHz ANTlower																					
		20 MHz Bandwidth								40 MHz Bandwidth									80 MHz Bandwidth				
Channel		36	40-48	52-60	100	104-136	140	144	149-165	38	46	54	62	102	110-126	134	142	151-159	42-58	106	122-138	155
IEEE 802.11a (5 GHz)	Maximum	**16.00**	**16.00**	**16.50**	**15.50**	**16.50**	**14.75**	**16.50**	**15.50**													
	Nominal	**14.50**	**14.50**	**15.00**	**14.00**	**15.00**	**13.25**	**15.00**	**14.00**													
IEEE 802.11n (5 GHz)	Maximum	**16.00**	**16.00**	**16.50**	**15.50**	**16.50**	**14.75**	**16.50**	**15.50**	**13.50**	**16.00**	**16.50**	**13.50**	**13.00**	**16.50**	**15.50**	**16.50**	**15.50**				
	Nominal	**14.50**	**14.50**	**15.00**	**14.00**	**15.00**	**13.25**	**15.00**	**14.00**	**12.00**	**14.50**	**15.00**	**12.00**	**11.50**	**15.00**	**14.00**	**15.00**	**14.00**				
IEEE 802.11ac (5 GHz)	Maximum	**16.00**	**16.00**	**16.50**	**15.50**	**16.50**	**14.75**	**16.50**	**15.50**	**13.50**	**16.00**	**16.50**	**13.50**	**13.00**	**16.50**	**15.50**	**16.50**	**15.50**	**12.00**	**12.50**	**16.50**	**15.50**
	Nominal	**14.50**	**14.50**	**15.00**	**14.00**	**15.00**	**13.25**	**15.00**	**14.00**	**12.00**	**14.50**	**15.00**	**12.00**	**11.50**	**15.00**	**14.00**	**15.00**	**14.00**	**10.50**	**11.00**	**15.00**	**14.00**
IEEE 802.11ax SU (5 GHz)	Maximum	**15.00**	**16.00**	**16.50**	**14.00**	**16.50**	**13.50**	**16.50**	**15.50**	**12.00**	**16.00**	**16.50**	**11.50**	**11.50**	**16.50**	**14.50**	**16.50**	**15.50**	**10.50**	**10.50**	**16.50**	**15.50**
	Nominal	**13.50**	**14.50**	**15.00**	**12.50**	**15.00**	**12.00**	**15.00**	**14.00**	**10.50**	**14.50**	**15.00**	**10.00**	**10.00**	**15.00**	**13.00**	**15.00**	**14.00**	**9.00**	**9.00**	**15.00**	**14.00**

Mode / Band		Modulated Average - MIMO (dBm) 2Tx, CDD - 5GHz ANTlower																						
		20 MHz Bandwidth									40 MHz Bandwidth										80 MHz Bandwidth				
Channel		36	40-48	52-60	64-100	104-132	136	140	144	149-165	38	46	54	62	102	110-126	134	142	151-159	42	58	106	122-138	155
IEEE 802.11a (5 GHz)	Maximum	**15.00**	**16.00**	**16.50**	**15.00**	**16.50**	**15.00**	**12.50**	**16.50**	**15.50**														
	Nominal	**13.50**	**14.50**	**15.00**	**13.50**	**15.00**	**13.50**	**11.00**	**15.00**	**14.00**														
IEEE 802.11n (5 GHz)	Maximum	**15.00**	**16.00**	**16.50**	**15.00**	**16.50**	**15.00**	**12.50**	**16.50**	**15.50**	**12.50**	**16.00**	**16.50**	**12.50**	**11.25**	**16.50**	**14.00**	**16.50**	**15.50**					
	Nominal	**13.50**	**14.50**	**15.00**	**13.50**	**15.00**	**13.50**	**11.00**	**15.00**	**14.00**	**11.00**	**14.50**	**15.00**	**11.00**	**9.75**	**15.00**	**12.50**	**15.00**	**14.00**					
IEEE 802.11ac (5 GHz)	Maximum	**15.00**	**16.00**	**16.50**	**15.00**	**16.50**	**15.00**	**12.50**	**16.50**	**15.50**	**12.50**	**16.00**	**16.50**	**12.50**	**11.25**	**16.50**	**14.00**	**16.50**	**15.50**	**11.00**	**10.50**	**10.00**	**16.50**	**15.50**
	Nominal	**13.50**	**14.50**	**15.00**	**13.50**	**15.00**	**13.50**	**11.00**	**15.00**	**14.00**	**11.00**	**14.50**	**15.00**	**11.00**	**9.75**	**15.00**	**12.50**	**15.00**	**14.00**	**9.50**	**9.00**	**8.50**	**15.00**	**14.00**
IEEE 802.11ax SU (5 GHz)	Maximum	**13.50**	**16.00**	**16.50**	**13.50**	**16.50**	**13.50**	**10.00**	**16.50**	**15.50**	**11.00**	**16.00**	**16.50**	**10.50**	**10.00**	**16.50**	**13.00**	**16.50**	**15.50**	**9.00**	**9.00**	**9.00**	**16.50**	**14.50**
	Nominal	**12.00**	**14.50**	**15.00**	**12.00**	**15.00**	**12.00**	**8.50**	**15.00**	**14.00**	**9.50**	**14.50**	**15.00**	**9.00**	**8.50**	**15.00**	**11.50**	**15.00**	**14.00**	**7.50**	**7.50**	**7.50**	**15.00**	**13.00**

Mode / Band		Modulated Average - MIMO (dBm) 2Tx, SDM - 5GHz ANTlower																						
		20 MHz Bandwidth									40 MHz Bandwidth										80 MHz Bandwidth				
Channel		36	40-48	52-60	64-100	104-132	136	140	144	149-165	38	46	54	62	102	110-126	134	142	151-159	42	58	106	122-138	155
IEEE 802.11n (5 GHz)	Maximum	**15.00**	**16.00**	**16.50**	**15.00**	**16.50**	**15.00**	**12.50**	**16.50**	**15.50**	**12.50**	**16.00**	**16.50**	**12.50**	**11.25**	**16.50**	**14.00**	**16.50**	**15.50**					
	Nominal	**13.50**	**14.50**	**15.00**	**13.50**	**15.00**	**13.50**	**11.00**	**15.00**	**14.00**	**11.00**	**14.50**	**15.00**	**11.00**	**9.75**	**15.00**	**12.50**	**15.00**	**14.00**					
IEEE 802.11ac (5 GHz)	Maximum	**15.00**	**16.00**	**16.50**	**15.00**	**16.50**	**15.00**	**12.50**	**16.50**	**15.50**	**12.50**	**16.00**	**16.50**	**12.50**	**11.25**	**16.50**	**14.00**	**16.50**	**15.50**	**11.00**	**10.50**	**10.00**	**16.50**	**15.50**
	Nominal	**13.50**	**14.50**	**15.00**	**13.50**	**15.00**	**13.50**	**11.00**	**15.00**	**14.00**	**11.00**	**14.50**	**15.00**	**11.00**	**9.75**	**15.00**	**12.50**	**15.00**	**14.00**	**9.50**	**9.00**	**8.50**	**15.00**	**14.00**
IEEE 802.11ax SU (5 GHz)	Maximum	**13.50**	**16.00**	**16.50**	**13.50**	**16.50**	**13.50**	**10.00**	**16.50**	**15.50**	**11.00**	**16.00**	**16.50**	**10.50**	**10.00**	**16.50**	**13.00**	**16.50**	**15.50**	**9.00**	**9.00**	**9.00**	**16.50**	**14.50**
	Nominal	**12.00**	**14.50**	**15.00**	**12.00**	**15.00**	**12.00**	**8.50**	**15.00**	**14.00**	**9.50**	**14.50**	**15.00**	**9.00**	**8.50**	**15.00**	**11.50**	**15.00**	**14.00**	**7.50**	**7.50**	**7.50**	**15.00**	**13.00**

Note: In MIMO operations, 5GHz ANTlower transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM

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D. 5GHz ANTupper

Mode / Band		Modulated Average - Single Tx Chain (dBm) - 5GHz ANTupper																					
		20 MHz Bandwidth									40 MHz Bandwidth									80 MHz Bandwidth			
Channel		36	40-48	52-60	64	100	104-136	140	144	149-165	38	46	54	62	102	110-126	134	142	151-159	42-58	106	122-138	155
IEEE 802.11a (5 GHz)	Maximum	16.00	16.00	16.25	16.25	15.00	15.00	14.75	15.00	15.50													
	Nominal	14.50	14.50	14.75	14.75	13.50	13.50	13.25	13.50	14.00													
IEEE 802.11n (5 GHz)	Maximum	16.00	16.00	16.25	16.25	15.00	15.00	14.75	15.00	15.50	13.50	16.00	16.25	13.50	13.00	15.00	15.00	15.00	15.50				
	Nominal	14.50	14.50	14.75	14.75	13.50	13.50	13.25	13.50	14.00	12.00	14.50	14.75	12.00	11.50	13.50	13.50	13.50	14.00				
IEEE 802.11ac (5 GHz)	Maximum	16.00	16.00	16.25	16.25	15.00	15.00	14.75	15.00	15.50	13.50	16.00	16.25	13.50	13.00	15.00	15.00	15.00	15.50	12.00	12.50	15.00	15.50
	Nominal	14.50	14.50	14.75	14.75	13.50	13.50	13.25	13.50	14.00	12.00	14.50	14.75	12.00	11.50	13.50	13.50	13.50	14.00	10.50	11.00	13.50	14.00
IEEE 802.11ax SU (5 GHz)	Maximum	15.00	16.00	16.25	14.50	14.00	15.00	13.50	15.00	15.50	12.00	16.00	16.25	11.50	11.50	15.00	14.50	15.00	15.50	10.50	10.50	15.00	15.50
	Nominal	13.50	14.50	14.75	13.00	12.50	13.50	12.00	13.50	14.00	10.50	14.50	14.75	10.00	10.00	13.50	13.00	13.50	14.00	9.00	9.00	13.50	14.00

Mode / Band		Modulated Average - MIMO (dBm) 2Tx, CDD - 5GHz ANTupper																						
		20 MHz Bandwidth									40 MHz Bandwidth									80 MHz Bandwidth				
Channel		36	40-48	52-60	64-100	104-132	136	140	144	149-165	38	46	54	62	102	110-126	134	142	151-159	42	58	106	122-138	155
IEEE 802.11a (5 GHz)	Maximum	15.00	16.00	16.25	15.00	15.00	15.00	12.50	15.00	15.50														
	Nominal	13.50	14.50	14.75	13.50	13.50	13.50	11.00	13.50	14.00														
IEEE 802.11n (5 GHz)	Maximum	15.00	16.00	16.25	15.00	15.00	15.00	12.50	15.00	15.50	12.50	16.00	16.25	12.50	11.25	15.00	14.00	15.00	15.50					
	Nominal	13.50	14.50	14.75	13.50	13.50	13.50	11.00	13.50	14.00	11.00	14.50	14.75	11.00	9.75	13.50	12.50	13.50	14.00					
IEEE 802.11ac (5 GHz)	Maximum	15.00	16.00	16.25	15.00	15.00	15.00	12.50	15.00	15.50	12.50	16.00	16.25	12.50	11.25	15.00	14.00	15.00	15.50	11.00	10.50	10.00	15.00	15.50
	Nominal	13.50	14.50	14.75	13.50	13.50	13.50	11.00	13.50	14.00	11.00	14.50	14.75	11.00	9.75	13.50	12.50	13.50	14.00	9.50	9.00	8.50	13.50	14.00
IEEE 802.11ax SU (5 GHz)	Maximum	13.50	16.00	16.25	13.50	15.00	13.50	10.00	15.00	15.50	11.00	16.00	16.25	10.50	10.00	15.00	13.00	15.00	15.50	9.00	9.00	9.00	15.00	14.50
	Nominal	12.00	14.50	14.75	12.00	13.50	12.00	8.50	13.50	14.00	9.50	14.50	14.75	9.00	8.50	13.50	11.50	13.50	14.00	7.50	7.50	7.50	13.50	13.00

Mode / Band		Modulated Average - MIMO (dBm) 2Tx, SDM - 5GHz ANTupper																						
		20 MHz Bandwidth									40 MHz Bandwidth									80 MHz Bandwidth				
Channel		36	40-48	52-60	64-100	104-132	136	140	144	149-165	38	46	54	62	102	110-126	134	142	151-159	42	58	106	122-138	155
IEEE 802.11n (5 GHz)	Maximum	15.00	16.00	16.25	15.00	15.00	15.00	12.50	15.00	15.50	12.50	16.00	16.25	12.50	11.25	15.00	14.00	15.00	15.50					
	Nominal	13.50	14.50	14.75	13.50	13.50	13.50	11.00	13.50	14.00	11.00	14.50	14.75	11.00	9.75	13.50	12.50	13.50	14.00					
IEEE 802.11ac (5 GHz)	Maximum	15.00	16.00	16.25	15.00	15.00	15.00	12.50	15.00	15.50	12.50	16.00	16.25	12.50	11.25	15.00	14.00	15.00	15.50	11.00	10.50	10.00	15.00	15.50
	Nominal	13.50	14.50	14.75	13.50	13.50	13.50	11.00	13.50	14.00	11.00	14.50	14.75	11.00	9.75	13.50	12.50	13.50	14.00	9.50	9.00	8.50	13.50	14.00
IEEE 802.11ax SU (5 GHz)	Maximum	13.50	16.00	16.25	13.50	15.00	13.50	10.00	15.00	15.50	11.00	16.00	16.25	10.50	10.00	15.00	13.00	15.00	15.50	9.00	9.00	9.00	15.00	14.50
	Nominal	12.00	14.50	14.75	12.00	13.50	12.00	8.50	13.50	14.00	9.50	14.50	14.75	9.00	8.50	13.50	11.50	13.50	14.00	7.50	7.50	7.50	13.50	13.00

Note: In MIMO operations, 5GHz ANTupper transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

1.3.4 Unlicensed Reduced Output Power

E. Antenna 2A

Below table is applicable in the following conditions:
-Simultaneous conditions with 5GHz WLAN

Mode/Band		Modulated Average (dBm) - Antenna 2a
Bluetooth BDR/LE Reduced	Maximum	11.00
	Nominal	9.50
Bluetooth EDR Reduced	Maximum	11.00
	Nominal	9.50
Bluetooth HDR Reduced	Maximum	7.50
	Nominal	6.00

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Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/2A/2B Active
-Simultaneous conditions with Licensed Bands Antenna 1/2A/2B Active and 5GHz WLAN
-Simultaneous conditions with Inter-band ULCA active
-Simultaneous conditions with Inter-band ULCA active and 5GHz WLAN

Mode/Band		Modulated Average (dBm) - Antenna 2a
Bluetooth BDR/LE Reduced	Maximum	**7.00**
	Nominal	**5.50**
Bluetooth EDR Reduced	Maximum	**7.00**
	Nominal	**5.50**
Bluetooth HDR Reduced	Maximum	**7.00**
	Nominal	**5.50**

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2A/2B
-Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average (dBm) - Antenna 2a	
	Channel	1-12	13
IEEE 802.11b (2.4 GHz)	Maximum	**6.00**	
	Nominal	**4.50**	
IEEE 802.11g (2.4 GHz)	Maximum	**6.00**	**3.0**
	Nominal	**4.50**	**1.5**
IEEE 802.11n (2.4 GHz)	Maximum	**6.00**	**3.0**
	Nominal	**4.50**	**1.5**
IEEE 802.11ax SU (2.4 GHz)	Maximum	**6.00**	**N/A**
	Nominal	**4.50**	**N/A**

Below table is applicable in the following conditions:
-Simultaneous conditions with 5GHz WLAN

Mode/Band		Modulated Average - MIMO (dBm) - Antenna 2a
Bluetooth BDR/LE Reduced	Maximum	**11.00**
	Nominal	**9.50**
Bluetooth EDR Reduced	Maximum	**11.00**
	Nominal	**9.50**
Bluetooth HDR Reduced	Maximum	**7.50**
	Nominal	**6.00**

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers at indicated above.

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Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/2A/2B Active
-Simultaneous conditions with Licensed Bands Antenna 1/2A/2B Active and 5GHz WLAN
-Simultaneous conditions with Inter-band ULCA active
-Simultaneous conditions with Inter-band ULCA active and 5GHz WLAN

Mode/Band		Modulated Average - MIMO (dBm) - Antenna 2a
Bluetooth BDR/LE Reduced	Maximum	**7.00**
	Nominal	**5.50**
Bluetooth EDR Reduced	Maximum	**7.00**
	Nominal	**5.50**
Bluetooth HDR Reduced	Maximum	**7.00**
	Nominal	**5.50**

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers at indicated above.

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2A/2B
-Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average - MIMO (dBm) - Antenna 2a	
		20 MHz Bandwidth	
	Channel	1-12	13
IEEE 802.11g (2.4 GHz)	Maximum	**6.00**	**-0.5**
	Nominal	**4.50**	**-2.0**
IEEE 802.11n (2.4 GHz)	Maximum	**6.00**	**-0.5**
	Nominal	**4.50**	**-2.0**
IEEE 802.11ax SU (2.4 GHz)	Maximum	**6.00**	**N/A**
	Nominal	**4.50**	**N/A**

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers at indicated above.

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F. Antenna 4A

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3/4A/4B Active
-Simultaneous conditions with Licensed Bands Antenna 3/4A/4B Active and 5GHz WLAN
-Simultaneous conditions with Inter-band ULCA active
-Simultaneous conditions with Inter-band ULCA active and 5GHz WLAN

Mode/Band		Modulated Average (dBm) - Antenna 4a
Bluetooth BDR/LE Reduced	Maximum	**7.00**
	Nominal	**5.50**
Bluetooth EDR Reduced	Maximum	**7.00**
	Nominal	**5.50**
Bluetooth HDR Reduced	Maximum	**7.00**
	Nominal	**5.50**

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4A/4B
-Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average (dBm) - Antenna 4a	
	Channel	1-12	13
IEEE 802.11b (2.4 GHz)	Maximum	**6.00**	
	Nominal	**4.50**	
IEEE 802.11g (2.4 GHz)	Maximum	**6.00**	**1.0**
	Nominal	**4.50**	**-0.5**
IEEE 802.11n (2.4 GHz)	Maximum	**6.00**	**1.0**
	Nominal	**4.50**	**-0.5**
IEEE 802.11ax SU (2.4 GHz)	Maximum	**6.00**	**N/A**
	Nominal	**4.50**	**N/A**

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Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3/4A/4B Active
-Simultaneous conditions with Licensed Bands Antenna 3/4A/4B Active and 5GHz WLAN
-Simultaneous conditions with Inter-band ULCA active
-Simultaneous conditions with Inter-band ULCA active and 5GHz WLAN

Mode/Band		Modulated Average - MIMO (dBm) - Antenna 4a
Bluetooth BDR/LE	Maximum	**7.00**
	Nominal	**5.50**
Bluetooth EDR	Maximum	**7.00**
	Nominal	**5.50**
Bluetooth HDR Reduced	Maximum	**7.00**
	Nominal	**5.50**

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4A/4B
-Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average - MIMO (dBm) - Antenna 4a	
		20 MHz Bandwidth	
	Channel	1-12	13
IEEE 802.11g (2.4 GHz)	Maximum	**6.00**	**1.5**
	Nominal	**4.50**	**0.0**
IEEE 802.11n (2.4 GHz)	Maximum	**6.00**	**1.5**
	Nominal	**4.50**	**0.0**
IEEE 802.11ax SU (2.4 GHz)	Maximum	**6.00**	**N/A**
	Nominal	**4.50**	**N/A**

Note: In MIMO operations, Antenna 4A transmits at maximum allowed powers at indicated above.

G. 5GHz ANTlower

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2A
-Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average - Single Tx Chain (dBm) - 5GHz ANTlower											
		20 MHz Bandwidth			40 MHz Bandwidth					80 MHz Bandwidth			
	Channel	36-48	52-144	149-165	38-46	54	62-102	110-142	151-159	42-58	106	122-138	155
IEEE 802.11a (5 GHz)	Maximum	**12.00**	**12.50**	**11.50**									
	Nominal	**10.50**	**11.00**	**10.00**									
IEEE 802.11n (5 GHz)	Maximum	**12.00**	**12.50**	**11.50**	**12.00**	**12.50**	**12.50**	**12.50**	**11.50**				
	Nominal	**10.50**	**11.00**	**10.00**	**10.50**	**11.00**	**11.00**	**11.00**	**10.00**				
IEEE 802.11ac (5 GHz)	Maximum	**12.00**	**12.50**	**11.50**	**12.00**	**12.50**	**12.50**	**12.50**	**11.50**	**12.00**	**12.50**	**12.50**	**11.50**
	Nominal	**10.50**	**11.00**	**10.00**	**10.50**	**11.00**	**11.00**	**11.00**	**10.00**	**10.50**	**11.00**	**11.00**	**10.00**
IEEE 802.11ax SU (5 GHz)	Maximum	**12.00**	**12.50**	**11.50**	**12.00**	**12.50**	**11.50**	**12.50**	**11.50**	**10.50**	**10.50**	**12.50**	**11.50**
	Nominal	**10.50**	**11.00**	**10.00**	**10.50**	**11.00**	**10.00**	**11.00**	**10.00**	**9.00**	**9.00**	**11.00**	**10.00**

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Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2A
-Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average - MIMO (dBm) 2Tx, CDD - 5GHz ANTlower																	
		20 MHz Bandwidth					40 MHz Bandwidth							80 MHz Bandwidth					
	Channel	36-48	52-136	140	144	149-165	38	46	54	62	102	110-142	151-159	42	58	106	122-138	155	
IEEE 802.11a (5 GHz)	Maximum	12.00	12.50	12.50	12.50	11.50													
	Nominal	10.50	11.00	11.00	11.00	10.00													
IEEE 802.11n (5 GHz)	Maximum	12.00	12.50	12.50	12.50	11.50	12.00	12.00	12.50	12.50	11.25	12.50	11.50						
	Nominal	10.50	11.00	11.00	11.00	10.00	10.50	10.50	11.00	11.00	9.75	11.00	10.00						
IEEE 802.11ac (5 GHz)	Maximum	12.00	12.50	12.50	12.50	11.50	12.00	12.00	12.50	12.50	11.25	12.50	11.50	11.00	10.50	10.00	12.50	11.50	
	Nominal	10.50	11.00	11.00	11.00	10.00	10.50	10.50	11.00	11.00	9.75	11.00	10.00	9.50	9.00	8.50	11.00	10.00	
IEEE 802.11ax SU (5 GHz)	Maximum	12.00	12.50	10.00	12.50	11.50	11.00	12.00	12.50	10.50	10.00	12.50	11.50	9.00	9.00	9.00	12.50	11.50	
	Nominal	10.50	11.00	8.50	11.00	10.00	9.50	10.50	11.00	9.00	8.50	11.00	10.00	7.50	7.50	7.50	11.00	10.00	

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2A
-Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average - MIMO (dBm) 2Tx, SDM - 5GHz ANTlower																	
		20 MHz Bandwidth					40 MHz Bandwidth							80 MHz Bandwidth					
	Channel	36-48	52-136	140	144	149-165	38	46	54	62	102	110-142	151-159	42	58	106	122-138	155	
IEEE 802.11n (5 GHz)	Maximum	12.00	12.50	12.50	12.50	11.50	12.00	12.00	12.50	12.50	11.25	12.50	11.50						
	Nominal	10.50	11.00	11.00	11.00	10.00	10.50	10.50	11.00	11.00	9.75	11.00	10.00						
IEEE 802.11ac (5 GHz)	Maximum	12.00	12.50	12.50	12.50	11.50	12.00	12.00	12.50	12.50	11.25	12.50	11.50	11.00	10.50	10.00	12.50	11.50	
	Nominal	10.50	11.00	11.00	11.00	10.00	10.50	10.50	11.00	11.00	9.75	11.00	10.00	9.50	9.00	8.50	11.00	10.00	
IEEE 802.11ax SU (5 GHz)	Maximum	12.00	12.50	10.00	12.50	11.50	11.00	12.00	12.50	10.50	10.00	12.50	11.50	9.00	9.00	9.00	12.50	11.50	
	Nominal	10.50	11.00	8.50	11.00	10.00	9.50	10.50	11.00	9.00	8.50	11.00	10.00	7.50	7.50	7.50	11.00	10.00	

Note: In MIMO operations, 5GHz ANTlower transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

H. 5GHz ANTupper

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3
-Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average - Single Tx Chain (dBm) - 5GHz ANTupper													
		20 MHz Bandwidth				40 MHz Bandwidth					80 MHz Bandwidth				
Channel		36-48	52-64	100-144	149-165	36-48	52-62	102-142	110-142	151-159	42	58	106-138	155	
IEEE 802.11a (5 GHz)	Maximum	11.00	11.25	10.00	10.50										
	Nominal	9.50	9.75	8.50	9.00										
IEEE 802.11n (5 GHz)	Maximum	11.00	11.25	10.00	10.50	11.00	11.25	10.00	12.50	10.50					
	Nominal	9.50	9.75	8.50	9.00	9.50	9.75	8.50	11.00	9.00					
IEEE 802.11ac (5 GHz)	Maximum	11.00	11.25	10.00	10.50	11.00	11.25	10.00	12.50	10.50	11.00	11.25	10.00	10.50	
	Nominal	9.50	9.75	8.50	9.00	9.50	9.75	8.50	11.00	9.00	9.50	9.75	8.50	9.00	
IEEE 802.11ax SU (5 GHz)	Maximum	11.00	11.25	10.00	10.50	11.00	11.25	10.00	12.50	10.50	10.50	10.50	10.00	10.50	
	Nominal	9.50	9.75	8.50	9.00	9.50	9.75	8.50	11.00	9.00	9.00	9.00	8.50	9.00	

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Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3
-Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average - MIMO (dBm) 2Tx, CDD - 5GHz ANTupper													
		20 MHz Bandwidth				40 MHz Bandwidth					80 MHz Bandwidth				
	Channel	36-48	52-64	100-144	149-165	38-46	54	62	102-142	151-159	42	58	106	122-138	155
IEEE 802.11a (5 GHz)	Maximum	11.00	11.25	10.00	10.50										
	Nominal	9.50	9.75	8.50	9.00										
IEEE 802.11n (5 GHz)	Maximum	11.00	11.25	10.00	10.50	11.00	11.25	11.25	10.00	10.50					
	Nominal	9.50	9.75	8.50	9.00	9.50	9.75	9.75	8.50	9.00					
IEEE 802.11ac (5 GHz)	Maximum	11.00	11.25	10.00	10.50	11.00	11.25	11.25	10.00	10.50	11.00	10.50	10.00	10.00	10.50
	Nominal	9.50	9.75	8.50	9.00	9.50	9.75	9.75	8.50	9.00	9.50	9.00	8.50	8.50	9.00
IEEE 802.11ax SU (5 GHz)	Maximum	11.00	11.25	10.00	10.50	11.00	11.25	10.50	10.00	10.50	9.00	9.00	9.00	10.00	10.50
	Nominal	9.50	9.75	8.50	9.00	9.50	9.75	9.00	8.50	9.00	7.50	7.50	7.50	8.50	9.00

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3
-Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average - MIMO (dBm) 2Tx, SDM - 5GHz ANTupper													
		20 MHz Bandwidth				40 MHz Bandwidth					80 MHz Bandwidth				
	Channel	36-48	52-64	100-144	149-165	38-46	54	62	102-142	151-159	42	58	106	122-138	155
IEEE 802.11n (5 GHz)	Maximum	11.00	11.25	10.00	10.50	11.00	11.25	11.25	10.00	10.50					
	Nominal	9.50	9.75	8.50	9.00	9.50	9.75	9.75	8.50	9.00					
IEEE 802.11ac (5 GHz)	Maximum	11.00	11.25	10.00	10.50	11.00	11.25	11.25	10.00	10.50	11.00	10.50	10.00	10.00	10.50
	Nominal	9.50	9.75	8.50	9.00	9.50	9.75	9.75	8.50	9.00	9.50	9.00	8.50	8.50	9.00
IEEE 802.11ax SU (5 GHz)	Maximum	11.00	11.25	10.00	10.50	11.00	11.25	10.50	10.00	10.50	9.00	9.00	9.00	10.00	10.50
	Nominal	9.50	9.75	8.50	9.00	9.50	9.75	9.00	8.50	9.00	7.50	7.50	7.50	8.50	9.00

Note: In MIMO operations, 5GHz ANTupper transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

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1.4 DUT Antenna Locations

The overall diagonal dimension of the device is > 200 mm. A diagram showing the location of the device antennas can be found in Appendix F. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

Table 1-1
Device Edges/Sides for SAR Testing

Device Sides/Edges for SAR Testing						
Mode	Back	Front	Top	Bottom	Right	Left
GPRS 850 Ant 1	Yes	No	No	Yes	No	Yes
UMTS 850 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 71 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 12 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 13 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 14 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 5 (Cell) Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 26 (Cell) Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 48 (Cell) Ant 1	Yes	No	No	Yes	No	Yes
GPRS 850 Ant 3	Yes	No	Yes	No	Yes	No
UMTS 850 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 71 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 12 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 13 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 14 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 5 (Cell) Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 26 (Cell) Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 48 (Cell) Ant 3	Yes	No	Yes	No	Yes	No
GPRS 1900 Ant 4A	Yes	No	Yes	No	No	Yes
UMTS 1750 Ant 4A	Yes	No	Yes	No	No	Yes
UMTS 1900 Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 4 (AWS) Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 66 (AWS) Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 2 (PCS) Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 25 (PCS) Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 30 Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 7 Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 41 Ant 4A	Yes	No	Yes	No	No	Yes
GPRS 1900 Ant 4B	Yes	No	Yes	No	No	Yes
UMTS 1750 Ant 4B	Yes	No	Yes	No	No	Yes
UMTS 1900 Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 4 (AWS) Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 66 (AWS) Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 2 (PCS) Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 25 (PCS) Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 30 Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 7 Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 41 Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 48 (Cell) Ant 4B	Yes	No	Yes	No	No	Yes
GPRS 1900 Ant 2A	Yes	No	No	Yes	Yes	No
UMTS 1750 Ant 2A	Yes	No	No	Yes	Yes	No
UMTS 1900 Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 4 (AWS) Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 66 (AWS) Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 2 (PCS) Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 25 (PCS) Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 30 Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 7 Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 41 Ant 2A	Yes	No	No	Yes	Yes	No
GPRS 1900 Ant 2B	Yes	No	No	Yes	Yes	No
UMTS 1750 Ant 2B	Yes	No	No	Yes	Yes	No
UMTS 1900 Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 4 (AWS) Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 66 (AWS) Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 2 (PCS) Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 25 (PCS) Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 30 Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 7 Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 41 Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 48 (Cell) Ant 2B	Yes	No	No	Yes	Yes	No
2.4 GHz WLAN Ant 4A	Yes	No	Yes	No	No	Yes
2.4 GHz WLAN Ant 2A	Yes	No	No	Yes	Yes	No
WLAN 5GHz ANTlower	Yes	No	No	Yes	Yes	No
WLAN 5GHz ANTupper	Yes	No	Yes	No	Yes	No
Bluetooth Ant 4A	Yes	No	Yes	No	No	Yes
Bluetooth Ant 2A	Yes	No	No	Yes	Yes	No

Note: Per FCC KDB Publication 616217 D04v01r01, particular edges were not required to be evaluated for SAR based on the SAR exclusion threshold in KDB 447498 D01V06. Additional edges may have been evaluated for simultaneous transmission analysis.

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1.5 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 4.3.2 procedures.

Table 1-2
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Body
1	Cellular Band + 2.4 GHz WI-FI	Yes
2	Cellular Band + 5 GHz WI-FI	Yes
3	Cellular Band + 2.4 GHz Bluetooth	Yes
4	Cellular Band+ 2.4 GHz WI-FI MIMO	Yes
5	Cellular Band + 5 GHz WI-FI MIMO	Yes
6	Cellular Band + 2.4 GHz Bluetooth MIMO (TxBF)	Yes
7	Cellular Band + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
8	Cellular Band + 2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz WI-FI	Yes
9	Cellular Band + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO	Yes
10	Cellular Band + 2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz WI-FI MIMO	Yes
11	2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
12	2.4 GHz Bluetooth MIIMO (TxBF) + 5 GHz WI-FI	Yes
13	2.4 GHz Bluetooth + 5 GHz WI-FI MIMO	Yes
14	2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz WI-FI MIMO	Yes

Table 1-3
Simultaneous Transmission Scenarios of Inter-band ULCA

No.	LTE Inter-Band ULCA Transmit Configuration	Body	Note
1	Cellular Ant 1 + Cellular Ant 2A	Yes	LTE Bands transmitting from Ant 1: LTE B5/12/13/14 LTE Bands transmitting from Ant 2A: LTE B2/4/7/66/30
2	Cellular Ant 1 + Cellular Ant 4A	Yes	LTE Bands transmitting from Ant 1: LTE B5/12/13/14 LTE Bands transmitting from Ant 4A: LTE B2/4/7/66/30
3	Cellular Ant 1 + Cellular Ant 4B	Yes	LTE Bands transmitting from Ant 1: LTE B5/12/13/14 LTE Bands transmitting from Ant 4B: LTE B2/4/7/66/30
4	Cellular Ant 3 + Cellular Ant 2A	Yes	LTE Bands transmitting from Ant 3: LTE B5/12/13/14 LTE Bands transmitting from Ant 2A: LTE B2/4/7/66/30
5	Cellular Ant 3 + Cellular Ant 2B	Yes	LTE Bands transmitting from Ant 3: LTE B5/12/13/14 LTE Bands transmitting from Ant 2B: LTE B2/4/7/66/30
6	Cellular Ant 3 + Cellular Ant 4A	Yes	LTE Bands transmitting from Ant 3: LTE B5/12/13/14 LTE Bands transmitting from Ant 4A: LTE B2/4/7/66/30

Note: The technical description includes all the possible Inter-band ULCA combinations.

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Table 1-4
Simultaneous Transmission Scenarios with Inter-band ULCA Active

No.	Capable Transmit Configuration	Body
1	LTE Inter-Band ULCA + 2.4 GHz WI-FI	Yes
2	LTE Inter-Band ULCA + 5 GHz WI-FI	Yes
3	LTE Inter-Band ULCA + 2.4 GHz Bluetooth	Yes
4	LTE Inter-Band ULCA+ 2.4 GHz WI-FI MIMO	Yes
5	LTE Inter-Band ULCA + 5 GHz WI-FI MIMO	Yes
6	LTE Inter-Band ULCA + 2.4 GHz Bluetooth MIMO (TxBF)	Yes
7	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
8	LTE Inter-Band ULCA + 2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz WI-FI	Yes
9	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO	Yes
10	LTE Inter-Band ULCA + 2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz WI-FI MIMO	Yes

Note: LTE inter-band ULCA can operate in any of the combinations in table 1-3.

1. There are no limitations in the above listed simultaneous transmission scenarios between cellular antennas and BT/WI-FI antennas.
2. 2.4 GHz WLAN, and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
3. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
4. This device supports VOWIFI.

1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

The WLAN/Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the identical mechanical structure to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report. WLAN/Bluetooth SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN/Bluetooth configurations.

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, channels 1, 6, and 11 were considered for SAR testing per FCC KDB 248227 D01V02r02

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) TDWR and Band gap channels are supported

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This device supports IEEE 802.11ax with the following features:

a) Up to 80 MHz Bandwidth only for 5 GHz
b) Up to 20 MHz Bandwidth only for 2.4 GHz
c) No aggregate channel configurations
d) 2 Tx antenna output
e) Up to 1024 QAM is supported
f) TDWR and Band gap channels are supported for 5 GHz
g) MU-MIMO UL Operations are not supported

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

(B) Licensed Transmitter(s)

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

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 D05v02r04.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive. The downlink carrier aggregation exclusion analysis can be found in Appendix F.

This device supports intra-band LTE Carrier Aggregation (CA) for LTE Band 41, LTE Band 5, and LTE Band 7 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive.

This device supports 64QAM on the uplink and 256QAM on the downlink for LTE Operations. Conducted powers for 64QAM uplink configurations were measured per Section 5.1 of FCC KDB Publication 941225 D05v02r05. SAR was not required for 64QAM since the highest maximum output power for 64 QAM is $\leq \frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is $\leq$ 1.45 W/kg, per Section 5.2.4 of FCC KDB Publication 941225 D05v02r05.

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 13.1).

This device supports LTE capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE Band falls completely within an LTE band with a larger transmission frequency range, both LTE bands have the same target power (or the band with the larger transmission frequency range

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has a higher target power), and both LTE bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device supports inter-band LTE Carrier Aggregation (CA) for LTE Bands 2/4/5/7/12/13/14/30/66 with two component carriers in the uplink. Additional SAR Measurements were performed for some positions at the maximum allowed output power in inter-band ULCA mode. All single uplink 1g SAR values for each band were < 0.8 W/kg and the algebraic summation of the 1g SAR inter-band ULCA values were < 1.45. Per Fall 2018 TCB Workshop notes, no additional measurements were required.

1.7 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02 (2G/3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Tablet)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- October 2018 TCB Workshop Notes (Inter-band Uplink Carrier Aggregation)

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. The serial numbers used for each test are indicated alongside the results in Section 10.

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2 LTE INFORMATION

LTE Information					
Form Factor	Tablet Device				
Frequency Range of each LTE transmission band	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 30 (2307.5 - 2312.5 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
	LTE Band 48 (3552.5 - 3697.5 MHz)				
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)		680.5 (133297)	695.5 (133447)	
LTE Band 71: 10 MHz	668 (133172)		680.5 (133297)	693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)		680.5 (133297)	690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)		680.5 (133297)	688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz	706.5 (23755)		710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)		710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	N/A		782 (23230)	N/A	
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	N/A		793 (23330)	N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)	844 (26990)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)	848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)	844 (20600)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)		1732.5 (20175)	1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)		1732.5 (20175)	1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)		1732.5 (20175)	1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)		1732.5 (20175)	1745 (20300)	
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)		1745 (132322)	1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)		1745 (132322)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)		1745 (132322)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)		1745 (132322)	1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)		1745 (132322)	1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)		1745 (132322)	1770 (132572)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)		1880 (18900)	1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)		1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)		1880 (18900)	1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)		1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)		1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)		1880 (18900)	1900 (19100)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)		1882.5 (26365)	1914.3 (26683)	
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 30: 5 MHz	2307.5 (27685)		2310 (27710)	2312.5 (27735)	
LTE Band 30: 10 MHz	N/A		2310 (27710)	N/A	
LTE Band 7: 5 MHz	2502.5 (20775)		2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (20800)		2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz	2507.5 (20825)		2535 (21100)	2562.5 (21375)	
LTE Band 7: 20 MHz	2510 (20850)		2535 (21100)	2560 (21350)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3690 (56640)
UE Category	DL UE Cat 19 (QPSK, 16QAM, 64QAM, 256QAM), UL UE Cat 13 (QPSK, 16QAM, 64QAM)				
Modulations Supported in UL	QPSK, 16QAM, 64QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3~6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 13. It supports carrier aggregation and downlink MIMO features as shown in Section 8 and Appendix F. All other uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC unless otherwise specified. The following LTE Release 13 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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3 INTRODUCTION

The FCC and Innovation, Science, and Economic Development 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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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

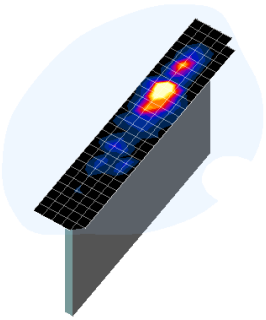


Figure 4-1
Sample SAR Area Scan

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 D01v01r04 (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 D01v01r04 (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.

Table 4-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

Frequency	Maximum Area Scan Resolution (mm) (Δx_{area}, Δy_{area})	Maximum Zoom Scan Resolution (mm) (Δx_{zoom}, Δy_{zoom})	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
			$\Delta z_{zoom}(n)$	$\Delta z_{zoom}(1)$*	$\Delta z_{zoom}(n>1)$*	
≤ 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 TEST CONFIGURATION POSITIONS

5.1 Device Holder

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

5.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, 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 D01v06 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.

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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 *General Population* (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT *Occupational* (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 for licensed transmitters are performed using a base station simulator under digital average power.

7.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, 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 D01v01r03.

7.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

7.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

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

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

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

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7.4.2 Body SAR Measurements

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

7.4.3 SAR Measurements with Rel 5 HSDPA

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

7.4.4 SAR Measurements with Rel 6 HSUPA

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

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

7.4.5 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

7.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

7.5.1 Spectrum Plots for RB Configurations

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

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7.5.2 MPR

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

7.5.3 A-MPR

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

7.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

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 ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.

According to FCC KDB 447498 D01v06, when the reported (scaled) SAR for LTE Band 41 is ≤ 0.6 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 the highest output power for that channel.

7.5.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is 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 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

7.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the

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downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

7.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

7.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

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

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

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

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

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

7.6.4 2.4 GHz SAR Test Requirements

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

1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

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2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

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

7.6.5 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

7.6.6 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

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

7.6.7 Subsequent Test Configuration Procedures

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

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7.6.8 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01v06 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is <1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

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8 RF CONDUCTED POWERS

8.1 GSM Conducted Powers

Table 8-1
Conducted Power Ant 1

Maximum Burst-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 850	128	29.58	**26.55**	25.57	24.69
	190	29.45	**26.39**	25.44	24.54
	251	29.38	**26.36**	25.38	24.50
Calculated Maximum Frame-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 850	128	20.55	**20.53**	16.54	18.67
	190	20.42	**20.37**	16.41	18.52
	251	20.35	**20.34**	16.35	18.48
GSM 850	**Frame Avg.Targets:**	20.02	**20.03**	15.97	17.98

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Table 8-2
Conducted Power Ant 3

Maximum Burst-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 850	128	28.63	**26.30**	27.40	26.30
	190	28.53	**26.29**	27.31	26.29
	251	28.52	**26.21**	27.22	26.22
Calculated Maximum Frame-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 850	128	19.60	**20.28**	18.37	20.28
	190	19.50	**20.27**	18.28	20.27
	251	19.49	**20.19**	18.19	20.20
GSM 850	**Frame Avg.Targets:**	19.22	**20.53**	17.97	19.98

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Table 8-3
Conducted Power Ant 2a

Maximum Burst-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 1900	512	24.10	**21.04**	22.51	20.90
	661	23.84	**20.87**	22.34	20.77
	810	24.07	**20.98**	22.46	20.87
Calculated Maximum Frame-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 1900	512	15.07	**15.02**	13.48	14.88
	661	14.81	**14.85**	13.31	14.75
	810	15.04	**14.96**	13.43	14.85
GSM 1900	**Frame Avg.Targets:**	15.02	**15.03**	13.47	15.03

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Table 8-4
Conducted Power Ant 2b

Maximum Burst-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 1900	512	22.96	**19.82**	22.78	19.81
	661	22.73	**19.56**	22.52	19.55
	810	22.95	**19.74**	22.70	19.74
Calculated Maximum Frame-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 1900	512	13.93	**13.80**	13.75	13.79
	661	13.70	**13.54**	13.49	13.53
	810	13.92	**13.72**	13.67	13.72
GSM 1900	**Frame Avg.Targets:**	13.72	**13.73**	13.47	13.73

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Table 8-5
Conducted Power Ant 4a

Maximum Burst-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 1900	512	23.72	**20.87**	23.87	20.72
	661	23.58	**20.73**	23.73	20.59
	810	23.75	**20.88**	23.88	20.74
Calculated Maximum Frame-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 1900	512	14.69	**14.85**	14.84	14.70
	661	14.55	**14.71**	14.70	14.57
	810	14.72	**14.86**	14.85	14.72
GSM 1900	**Frame Avg.Targets:**	14.12	**14.13**	14.12	14.13

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Table 8-6
Conducted Power Ant 4b

Maximum Burst-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 1900	512	22.80	**19.88**	22.90	19.82
	661	22.64	**19.64**	22.69	19.62
	810	22.53	**19.57**	22.62	19.51
Calculated Maximum Frame-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		*EDGE Data (8-PSK)*	
Band	**Channel**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**
GSM 1900	512	13.77	**13.86**	13.87	13.80
	661	13.61	**13.62**	13.66	13.60
	810	13.50	**13.55**	13.59	13.49
GSM 1900	**Frame Avg.Targets:**	14.22	**14.23**	14.22	14.23

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Note:

1. Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
2. GPRS/EDGE (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 - CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
3. EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8-PSK modulation do not have an impact on output power.

GSM Class: C
GPRS Multislot class: 10 (Max 2 Tx uplink slots)
EDGE Multislot class: 10 (Max 2 Tx uplink slots)
DTM Multislot Class: N/A



Figure 8-1
Power Measurement Setup

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8.2 UMTS Conducted Powers

Table 8-7
Conducted Power Ant 1

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	20.57	20.60	20.59	-
6	HSDPA	Subtest 1	20.56	20.59	20.54	0
6		Subtest 2	20.58	20.60	20.48	0
6		Subtest 3	20.59	20.59	20.52	0.5
6		Subtest 4	20.59	20.60	20.50	0.5
6	HSUPA	Subtest 1	20.56	20.58	20.49	0
6		Subtest 2	20.58	20.60	20.53	2
6		Subtest 3	20.59	20.58	20.50	1
6		Subtest 4	20.59	20.60	20.56	2
6		Subtest 5	20.54	20.58	20.44	0
8	DC-HSDPA	Subtest 1	20.59	20.60	20.54	0
8		Subtest 2	20.55	20.57	20.50	0
8		Subtest 3	20.56	20.60	20.49	0.5
8		Subtest 4	20.60	20.58	20.47	0.5

Table 8-8
Conducted Power Ant 3

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	20.07	20.15	20.03	-
6	HSDPA	Subtest 1	20.23	20.11	20.08	0
6		Subtest 2	20.21	20.09	20.05	0
6		Subtest 3	20.25	20.13	20.09	0.5
6		Subtest 4	20.26	20.13	20.09	0.5
6	HSUPA	Subtest 1	20.17	19.89	19.83	0
6		Subtest 2	20.22	20.10	20.06	2
6		Subtest 3	20.16	20.00	19.94	1
6		Subtest 4	20.24	20.15	20.10	2
6		Subtest 5	20.14	20.05	20.00	0
8	DC-HSDPA	Subtest 1	20.22	20.11	20.06	0
8		Subtest 2	20.21	20.10	20.06	0
8		Subtest 3	20.22	20.12	20.00	0.5
8		Subtest 4	20.22	20.08	20.03	0.5

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Table 8-9
Conducted Power Ant 2a

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	14.17	14.39	13.93	14.93	15.01	15.02	-
6	HSDPA	Subtest 1	14.14	14.21	13.97	14.92	15.02	15.03	0
6		Subtest 2	14.18	14.24	14.00	14.93	15.06	15.10	0
6		Subtest 3	14.23	14.27	14.01	15.02	15.10	15.10	0.5
6		Subtest 4	14.25	14.27	14.06	14.97	15.10	15.10	0.5
6	HSUPA	Subtest 1	14.15	14.01	13.81	14.85	14.83	14.93	0
6		Subtest 2	14.16	14.22	14.00	14.94	15.10	15.10	2
6		Subtest 3	13.60	14.09	13.89	14.76	14.95	14.96	1
6		Subtest 4	14.02	14.30	14.10	15.06	15.10	15.10	2
6		Subtest 5	14.13	14.23	13.98	14.88	15.05	15.07	0
8	DC-HSDPA	Subtest 1	14.15	14.24	13.93	14.86	15.00	15.05	0
8		Subtest 2	14.16	14.20	13.98	14.93	15.08	15.10	0
8		Subtest 3	14.17	14.23	14.00	15.00	15.10	15.10	0.5
8		Subtest 4	14.20	14.29	13.99	15.01	15.10	15.10	0.5

Table 8-10
Conducted Power Ant 2b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	14.47	14.49	14.27	13.80	13.81	14.09	-
6	HSDPA	Subtest 1	14.40	14.37	14.30	13.88	13.86	14.05	0
6		Subtest 2	14.47	14.38	14.36	13.94	13.97	14.10	0
6		Subtest 3	14.50	14.49	14.41	13.97	13.95	14.09	0.5
6		Subtest 4	14.50	14.50	14.38	14.05	14.06	14.10	0.5
6	HSUPA	Subtest 1	14.34	14.38	14.31	13.96	13.94	14.10	0
6		Subtest 2	14.41	14.34	14.40	14.04	14.02	14.09	2
6		Subtest 3	14.41	14.42	14.39	13.96	14.00	14.10	1
6		Subtest 4	14.46	14.46	14.45	14.05	14.09	14.08	2
6		Subtest 5	14.32	14.34	14.32	13.91	13.86	14.10	0
8	DC-HSDPA	Subtest 1	14.35	14.32	14.28	13.81	13.80	14.10	0
8		Subtest 2	14.41	14.29	14.30	13.88	13.94	14.10	0
8		Subtest 3	14.40	14.34	14.27	13.90	13.98	14.09	0.5
8		Subtest 4	14.38	14.27	14.26	13.91	13.91	14.10	0.5

Table 8-11
Conducted Power Ant 4a

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	14.33	14.29	14.02	14.73	14.58	14.82	-
6	HSDPA	Subtest 1	14.16	14.26	14.10	14.33	14.22	14.50	0
6		Subtest 2	14.22	14.29	13.96	14.35	14.31	14.60	0
6		Subtest 3	14.21	14.36	14.08	14.40	14.38	14.65	0.5
6		Subtest 4	14.26	14.35	14.09	14.44	14.36	14.64	0.5
6	HSUPA	Subtest 1	14.15	14.21	14.04	14.60	14.50	14.79	0
6		Subtest 2	14.13	14.23	13.99	14.36	14.81	14.90	2
6		Subtest 3	14.18	14.22	14.04	14.71	14.70	14.85	1
6		Subtest 4	14.20	14.30	14.06	14.81	14.73	14.90	2
6		Subtest 5	14.16	14.25	14.03	14.58	14.60	14.86	0
8	DC-HSDPA	Subtest 1	14.14	14.25	14.07	14.62	14.47	14.64	0
8		Subtest 2	14.18	14.27	14.04	14.56	14.54	14.82	0
8		Subtest 3	14.23	14.29	14.12	14.58	14.59	14.81	0.5
8		Subtest 4	14.17	14.28	14.10	14.60	14.54	14.80	0.5

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Table 8-12
Conducted Power Ant 4b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	14.04	14.00	13.85	13.96	13.93	13.82	-
6	HSDPA	Subtest 1	14.07	13.92	13.82	13.91	13.90	13.81	0
6		Subtest 2	14.02	13.85	13.77	13.99	13.96	13.85	0
6		Subtest 3	14.10	13.98	13.97	14.00	13.99	13.84	0.5
6		Subtest 4	14.10	13.99	13.91	13.99	14.00	13.84	0.5
6	HSUPA	Subtest 1	13.94	13.79	13.85	13.86	13.86	13.71	0
6		Subtest 2	14.06	13.83	13.97	14.00	13.99	13.89	2
6		Subtest 3	14.01	13.91	13.96	13.97	13.95	13.87	1
6		Subtest 4	13.87	13.90	13.96	14.00	14.00	13.92	2
6		Subtest 5	14.03	13.85	13.79	13.90	13.91	13.79	0
8	DC-HSDPA	Subtest 1	13.91	13.74	13.79	13.93	13.93	13.74	0
8		Subtest 2	13.92	13.81	13.85	14.00	13.99	13.83	0
8		Subtest 3	14.00	13.85	13.86	13.92	13.94	13.86	0.5
8		Subtest 4	14.03	13.82	13.83	14.00	13.99	13.86	0.5

DC-HSDPA considerations

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



Figure 8-2
Power Measurement Setup

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8.3 LTE Conducted Powers

8.3.1 LTE Band 71

Table 8-13
LTE Band 71 Conducted Powers Ant 1 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.51	0	0
	1	50	19.56		0
	1	99	**19.80**		0
	50	0	19.53	0-1	0
	50	25	**19.62**		0
	50	50	19.56		0
	100	0	19.60		0
16QAM	1	0	19.47	0-1	0
	1	50	19.52		0
	1	99	19.66		0
	50	0	19.05	0-2	0
	50	25	19.13		0
	50	50	19.10		0
	100	0	19.11		0
64QAM	1	0	19.37	0-2	0
	1	50	19.22		0
	1	99	19.75		0
	50	0	19.06	0-3	0
	50	25	19.15		0
	50	50	19.09		0
	100	0	19.14		0

Note: LTE Band 71 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-14
LTE Band 71 Conducted Powers Ant 1 - 15 MHz Bandwidth

LTE Band 71 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.67	0	0
	1	36	19.57		0
	1	74	19.59		0
	36	0	19.61	0-1	0
	36	18	19.62		0
	36	37	19.63		0
	75	0	19.65		0
16QAM	1	0	19.48	0-1	0
	1	36	19.36		0
	1	74	19.18		0
	36	0	19.11	0-2	0
	36	18	19.12		0
	36	37	19.16		0
	75	0	19.12		0
64QAM	1	0	19.47	0-2	0
	1	36	19.36		0
	1	74	19.35		0
	36	0	19.11	0-3	0
	36	18	19.13		0
	36	37	19.12		0
	75	0	19.11		0

Note: LTE Band 71 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-15
LTE Band 71 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 71 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 133172 (668.0 MHz)	Mid Channel 133297 (680.5 MHz)	High Channel 133422 (693.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.80	19.62	19.74	0	0
	1	25	19.67	19.52	19.48		0
	1	49	19.46	19.64	19.54		0
	25	0	19.78	19.57	19.47	0-1	0
	25	12	19.68	19.57	19.50		0
	25	25	19.53	19.64	19.58		0
	50	0	19.68	19.60	19.60		0
16QAM	1	0	19.52	19.39	19.59	0-1	0
	1	25	19.41	19.32	19.09		0
	1	49	19.32	19.31	19.34		0
	25	0	19.29	19.10	19.01	0-2	0
	25	12	19.22	19.08	19.00		0
	25	25	19.03	19.16	19.09		0
	50	0	19.19	19.12	19.12		0
64QAM	1	0	19.57	19.38	19.35	0-2	0
	1	25	19.45	19.24	19.20		0
	1	49	19.21	19.46	19.41		0
	25	0	19.29	19.09	19.05	0-3	0
	25	12	19.18	19.08	19.06		0
	25	25	19.05	19.14	19.09		0
	50	0	19.16	19.10	19.12		0

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Table 8-16
LTE Band 71 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 71 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 133147 (665.5 MHz)	Mid Channel 133297 (680.5 MHz)	High Channel 133447 (695.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.78	19.77	19.65	0	0
	1	12	19.72	19.76	19.74		0
	1	24	19.68	19.80	19.80		0
	12	0	19.80	19.65	19.67	0-1	0
	12	6	19.78	19.63	19.66		0
	12	13	19.77	19.68	19.71		0
	25	0	19.78	19.61	19.69		0
16QAM	1	0	19.67	19.45	19.33	0-1	0
	1	12	19.36	19.51	19.51		0
	1	24	19.33	19.61	19.53		0
	12	0	19.38	19.27	19.19	0-2	0
	12	6	19.35	19.21	19.24		0
	12	13	19.37	19.20	19.35		0
	25	0	19.33	19.18	19.27		0
64QAM	1	0	19.48	19.48	19.47	0-2	0
	1	12	19.39	19.38	19.53		0
	1	24	19.47	19.61	19.57		0
	12	0	19.47	19.29	19.18	0-3	0
	12	6	19.41	19.30	19.24		0
	12	13	19.37	19.31	19.36		0
	25	0	19.36	19.21	19.24		0

Table 8-17
LTE Band 71 Conducted Powers Ant 3 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	**21.84**	0	0
	1	50	21.53		0
	1	99	21.66		0
	50	0	21.59	0-1	0
	50	25	21.59		0
	50	50	**21.68**		0
	100	0	21.56		0
16QAM	1	0	21.80	0-1	0
	1	50	21.72		0
	1	99	21.81		0
	50	0	21.39	0-2	0
	50	25	21.40		0
	50	50	21.71		0
	100	0	21.47		0
64QAM	1	0	21.80	0-2	0
	1	50	21.82		0
	1	99	21.83		0
	50	0	21.37	0-3	0
	50	25	21.35		0
	50	50	21.64		0
	100	0	21.47		0

Note: LTE Band 71 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-18
LTE Band 71 Conducted Powers Ant 3 - 15 MHz Bandwidth

LTE Band 71 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	21.76	0	0
	1	36	21.71		0
	1	74	21.68		0
	36	0	21.51	0-1	0
	36	18	21.63		0
	36	37	21.67		0
	75	0	21.65		0
16QAM	1	0	21.74	0-1	0
	1	36	21.73		0
	1	74	21.85		0
	36	0	21.24	0-2	0
	36	18	21.53		0
	36	37	21.52		0
	75	0	21.52		0
64QAM	1	0	21.78	0-2	0
	1	36	21.77		0
	1	74	21.74		0
	36	0	21.28	0-3	0
	36	18	21.55		0
	36	37	21.54		0
	75	0	21.48		0

Note: LTE Band 71 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-19
LTE Band 71 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 71 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 133172 (668.0 MHz)	Mid Channel 133297 (680.5 MHz)	High Channel 133422 (693.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	21.55	21.64	21.40	0	0
	1	25	21.28	21.59	21.12		0
	1	49	21.47	21.58	21.41		0
	25	0	21.34	21.35	21.16	0-1	0
	25	12	21.30	21.48	21.21		0
	25	25	21.46	21.54	21.36		0
	50	0	21.39	21.51	21.24		0
16QAM	1	0	21.90	21.79	21.82	0-1	0
	1	25	21.71	21.68	21.54		0
	1	49	21.89	21.75	21.83		0
	25	0	21.38	21.36	21.19	0-2	0
	25	12	21.36	21.48	21.21		0
	25	25	21.47	21.51	21.35		0
	50	0	21.41	21.49	21.23		0
64QAM	1	0	21.91	21.89	21.83	0-2	0
	1	25	21.73	21.82	21.54		0
	1	49	21.80	21.95	21.94		0
	25	0	21.38	21.34	21.23	0-3	0
	25	12	21.32	21.47	21.24		0
	25	25	21.47	21.52	21.38		0
	50	0	21.39	21.48	21.27		0

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Table 8-20
LTE Band 71 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 71 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 133147 (665.5 MHz)	Mid Channel 133297 (680.5 MHz)	High Channel 133447 (695.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	21.43	21.52	21.44	0	0
	1	12	21.29	21.47	21.42		0
	1	24	21.20	21.54	21.51		0
	12	0	21.57	21.49	21.38	0-1	0
	12	6	21.42	21.54	21.45		0
	12	13	21.30	21.61	21.53		0
	25	0	21.41	21.57	21.46		0
16QAM	1	0	21.90	21.89	21.94	0-1	0
	1	12	21.78	21.82	21.71		0
	1	24	21.63	21.91	21.87		0
	12	0	21.57	21.51	21.39	0-2	0
	12	6	21.45	21.58	21.45		0
	12	13	21.37	21.66	21.55		0
	25	0	21.42	21.50	21.45		0
64QAM	1	0	21.80	21.86	21.80	0-2	0
	1	12	21.71	21.79	21.69		0
	1	24	21.49	21.85	21.78		0
	12	0	21.52	21.48	21.39	0-3	0
	12	6	21.38	21.49	21.50		0
	12	13	21.39	21.62	21.57		0
	25	0	21.42	21.49	21.45		0

8.3.2 LTE Band 12

Table 8-21
LTE Band 12 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	**21.49**	0	0
	1	25	21.38		0
	1	49	21.31		0
	25	0	**21.35**	0-1	0
	25	12	21.34		0
	25	25	21.33		0
	50	0	21.30		0
16QAM	1	0	21.35	0-1	0
	1	25	21.25		0
	1	49	21.15		0
	25	0	21.18	0-2	0
	25	12	21.13		0
	25	25	21.09		0
	50	0	21.15		0
64QAM	1	0	21.33	0-2	0
	1	25	21.30		0
	1	49	21.26		0
	25	0	21.16	0-3	0
	25	12	21.16		0
	25	25	21.13		0
	50	0	21.19		0

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-22
LTE Band 12 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23035 (701.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23155 (713.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	21.02	21.16	21.17	0	0
	1	12	21.01	21.17	21.20		0
	1	24	20.91	21.18	21.25		0
	12	0	21.09	21.09	21.08	0-1	0
	12	6	21.11	21.09	21.09		0
	12	13	21.07	21.09	21.15		0
	25	0	21.13	21.12	21.12		0
16QAM	1	0	21.23	21.21	21.21	0-1	0
	1	12	21.21	21.24	21.21		0
	1	24	21.24	21.27	21.30		0
	12	0	21.16	21.16	21.06	0-2	0
	12	6	21.20	21.13	21.13		0
	12	13	21.16	21.13	21.14		0
	25	0	21.20	21.17	21.11		0
64QAM	1	0	21.14	21.09	21.10	0-2	0
	1	12	21.27	21.22	20.99		0
	1	24	20.97	21.16	21.08		0
	12	0	20.90	20.92	20.83	0-3	0
	12	6	20.85	20.90	20.91		0
	12	13	20.87	20.92	20.90		0
	25	0	20.87	20.91	20.91		0

Table 8-23
LTE Band 12 Conducted Powers Ant 1 - 3 MHz Bandwidth

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23025 (700.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23165 (714.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	21.06	21.19	21.00	0	0
	1	7	21.13	21.24	21.10		0
	1	14	21.09	21.20	21.01		0
	8	0	21.10	21.15	21.13	0-1	0
	8	4	21.12	21.14	21.19		0
	8	7	21.17	21.15	21.14		0
	15	0	21.15	21.15	21.16		0
16QAM	1	0	21.25	21.24	21.31	0-1	0
	1	7	21.22	21.23	21.31		0
	1	14	21.24	21.29	21.29		0
	8	0	21.16	21.16	21.06	0-2	0
	8	4	21.20	21.13	21.13		0
	8	7	21.16	21.13	21.14		0
	15	0	21.20	21.17	21.11		0
64QAM	1	0	21.12	21.15	21.19	0-2	0
	1	7	21.08	21.25	21.23		0
	1	14	21.19	21.09	21.28		0
	8	0	20.94	20.95	20.96	0-3	0
	8	4	20.99	20.99	21.06		0
	8	7	21.02	20.94	20.95		0
	15	0	20.98	20.99	21.03		0

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Table 8-24
LTE Band 12 Conducted Powers Ant 1 - 1.4 MHz Bandwidth

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23017 (699.7 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23173 (715.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	21.12	21.10	21.09	0	0
	1	2	21.09	21.12	21.22		0
	1	5	21.16	21.02	21.12		0
	3	0	21.14	21.16	21.09		0
	3	2	21.12	21.07	21.01		0
	3	3	21.12	21.06	21.02		0
	6	0	21.13	21.07	21.06	0-1	0
16QAM	1	0	21.25	21.27	21.24	0-1	0
	1	2	21.29	21.30	21.16		0
	1	5	21.30	21.30	21.15		0
	3	0	21.25	21.29	21.22		0
	3	2	21.26	21.26	21.25		0
	3	3	21.28	21.25	21.29		0
	6	0	21.25	21.22	21.29	0-2	0
64QAM	1	0	21.20	21.23	21.26	0-2	0
	1	2	21.20	21.18	21.26		0
	1	5	21.22	21.15	21.39		0
	3	0	21.06	21.12	21.15		0
	3	2	21.06	21.03	21.09		0
	3	3	21.11	21.12	21.15		0
	6	0	21.00	21.07	21.06	0-3	0

Table 8-25
LTE Band 12 Conducted Powers Ant 1 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**18.21**	0	0
	1	25	18.10		0
	1	49	18.04		0
	25	0	18.11	0-1	0
	25	12	**18.20**		0
	25	25	18.15		0
	50	0	18.17		0
16QAM	1	0	18.35	0-1	0
	1	25	18.34		0
	1	49	18.23		0
	25	0	17.94	0-2	0
	25	12	18.02		0
	25	25	17.95		0
	50	0	18.01		0
64QAM	1	0	18.38	0-2	0
	1	25	18.29		0
	1	49	18.23		0
	25	0	17.99	0-3	0
	25	12	17.98		0
	25	25	17.94		0
	50	0	18.03		0

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-26
LTE Band 12 Conducted Powers Ant 1 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23035 (701.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23155 (713.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.90	17.78	17.81	0	0
	1	12	17.94	17.88	17.91		0
	1	24	17.88	17.86	18.02		0
	12	0	17.96	17.89	17.95	0-1	0
	12	6	18.03	17.94	17.99		0
	12	13	17.98	17.90	17.94		0
	25	0	18.00	17.95	17.97		0
16QAM	1	0	18.31	18.28	18.27	0-1	0
	1	12	18.38	18.35	18.39		0
	1	24	18.35	18.19	18.50		0
	12	0	18.08	17.99	18.00	0-2	0
	12	6	18.04	17.98	18.02		0
	12	13	18.03	17.95	18.05		0
	25	0	18.06	18.01	18.00		0
64QAM	1	0	18.30	18.33	18.27	0-2	0
	1	12	18.34	18.15	18.35		0
	1	24	18.26	18.37	18.49		0
	12	0	17.98	17.87	18.04	0-3	0
	12	6	18.04	18.00	18.03		0
	12	13	18.01	17.93	18.03		0
	25	0	18.10	18.00	18.02		0

Table 8-27
LTE Band 12 Conducted Powers Ant 1 - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23025 (700.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23165 (714.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	18.00	17.86	17.99	0	0
	1	7	18.07	17.98	18.04		0
	1	14	18.05	17.88	18.00		0
	8	0	17.99	17.98	18.06	0-1	0
	8	4	18.02	18.06	18.05		0
	8	7	18.10	18.07	18.16		0
	15	0	18.04	18.06	18.10		0
16QAM	1	0	18.33	18.22	18.50	0-1	0
	1	7	18.48	18.26	18.42		0
	1	14	18.48	18.49	18.49		0
	8	0	18.00	18.03	18.13	0-2	0
	8	4	18.03	18.01	18.11		0
	8	7	18.26	18.18	18.22		0
	15	0	18.13	18.15	18.05		0
64QAM	1	0	18.47	18.20	18.48	0-2	0
	1	7	18.48	18.43	18.39		0
	1	14	18.46	18.49	18.39		0
	8	0	17.99	18.00	18.07	0-3	0
	8	4	18.18	18.12	18.09		0
	8	7	18.25	18.05	18.16		0
	15	0	18.14	18.14	18.16		0

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Table 8-28
LTE Band 12 Conducted Powers Ant 1 - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23017 (699.7 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23173 (715.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.95	17.85	17.92	0	0
	1	2	18.02	17.97	17.97		0
	1	5	18.00	17.87	17.93		0
	3	0	17.94	17.97	17.99		0
	3	2	17.97	18.05	17.98		0
	3	3	18.05	18.06	18.09		0
	6	0	17.99	18.05	18.03	0-1	0
16QAM	1	0	18.28	18.21	18.47	0-1	0
	1	2	18.43	18.25	18.35		0
	1	5	18.43	18.48	18.48		0
	3	0	17.97	18.02	17.95		0
	3	2	18.00	17.97	18.00		0
	3	3	18.23	18.14	17.96		0
	6	0	18.10	18.11	18.02	0-2	0
64QAM	1	0	18.49	18.13	18.01	0-2	0
	1	2	18.50	18.36	18.12		0
	1	5	18.43	18.47	18.06		0
	3	0	17.96	17.93	18.49		0
	3	2	18.15	18.05	18.38		0
	3	3	18.22	17.98	18.50		0
	6	0	18.11	18.07	18.09	0-3	0

Table 8-29
LTE Band 12 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.66	0	0
	1	25	19.51		0
	1	49	**19.71**		0
	25	0	19.53	0-1	0
	25	12	19.54		0
	25	25	**19.64**		0
	50	0	19.61		0
16QAM	1	0	19.77	0-1	0
	1	25	19.60		0
	1	49	19.80		0
	25	0	19.33	0-2	0
	25	12	19.31		0
	25	25	19.41		0
	50	0	19.37		0
64QAM	1	0	19.65	0-2	0
	1	25	19.54		0
	1	49	19.57		0
	25	0	19.52	0-3	0
	25	12	19.60		0
	25	25	19.58		0
	50	0	19.59		0

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-30
LTE Band 12 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23035 (701.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23155 (713.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.66	19.43	19.57	0	0
	1	12	19.77	19.52	19.66		0
	1	24	19.70	19.61	19.60		0
	12	0	19.68	19.48	19.78	0-1	0
	12	6	19.74	19.52	19.77		0
	12	13	19.75	19.63	19.73		0
	25	0	19.77	19.60	19.79		0
16QAM	1	0	19.78	19.67	19.62	0-1	0
	1	12	19.80	19.60	19.80		0
	1	24	19.69	19.67	19.66		0
	12	0	19.69	19.41	19.75	0-2	0
	12	6	19.63	19.43	19.79		0
	12	13	19.65	19.58	19.64		0
	25	0	19.68	19.55	19.75		0
64QAM	1	0	19.68	19.57	19.60	0-2	0
	1	12	19.76	19.80	19.65		0
	1	24	19.73	19.80	19.80		0
	12	0	19.58	19.44	19.70	0-3	0
	12	6	19.70	19.48	19.73		0
	12	13	19.59	19.58	19.69		0
	25	0	19.64	19.51	19.77		0

Table 8-31
LTE Band 12 Conducted Powers Ant 3 - 3 MHz Bandwidth

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23025 (700.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23165 (714.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.55	19.42	19.75	0	0
	1	7	19.69	19.58	19.74		0
	1	14	19.69	19.58	19.64		0
	8	0	19.70	19.55	19.80	0-1	0
	8	4	19.75	19.66	19.72		0
	8	7	19.80	19.71	19.73		0
	15	0	19.78	19.69	19.73		0
16QAM	1	0	19.80	19.50	19.79	0-1	0
	1	7	19.80	19.61	19.77		0
	1	14	19.65	19.54	19.74		0
	8	0	19.68	19.47	19.78	0-2	0
	8	4	19.68	19.46	19.71		0
	8	7	19.72	19.60	19.74		0
	15	0	19.67	19.53	19.73		0
64QAM	1	0	19.72	19.43	19.80	0-2	0
	1	7	19.76	19.62	19.80		0
	1	14	19.64	19.53	19.75		0
	8	0	19.67	19.46	19.79	0-3	0
	8	4	19.65	19.45	19.66		0
	8	7	19.80	19.64	19.71		0
	15	0	19.69	19.52	19.77		0

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Table 8-32
LTE Band 12 Conducted Powers Ant 3 - 1.4 MHz Bandwidth

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23017 (699.7 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23173 (715.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.69	19.56	19.74	0	0
	1	2	19.78	19.52	19.72		0
	1	5	19.80	19.58	19.71		0
	3	0	19.68	19.61	19.80		0
	3	2	19.70	19.63	19.77		0
	3	3	19.71	19.64	19.76		0
	6	0	19.70	19.62	19.79	0-1	0
16QAM	1	0	19.74	19.65	19.80	0-1	0
	1	2	19.80	19.61	19.80		0
	1	5	19.80	19.61	19.70		0
	3	0	19.77	19.64	19.72		0
	3	2	19.58	19.66	19.79		0
	3	3	19.80	19.61	19.80		0
	6	0	19.71	19.58	19.77	0-2	0
64QAM	1	0	19.77	19.54	19.76	0-2	0
	1	2	19.71	19.69	19.74		0
	1	5	19.80	19.53	19.79		0
	3	0	19.79	19.64	19.75		0
	3	2	19.57	19.60	19.78		0
	3	3	19.69	19.64	19.78		0
	6	0	19.76	19.55	19.66	0-3	0

Table 8-33
LTE Band 12 Conducted Powers Ant 3 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**16.65**	0	0
	1	25	16.42		0
	1	49	16.49		0
	25	0	**16.63**	0-1	0
	25	12	16.51		0
	25	25	16.49		0
	50	0	16.53		0
16QAM	1	0	16.75	0-1	0
	1	25	16.51		0
	1	49	16.45		0
	25	0	16.42	0-2	0
	25	12	16.33		0
	25	25	16.30		0
	50	0	16.31		0
64QAM	1	0	16.77	0-2	0
	1	25	16.46		0
	1	49	16.48		0
	25	0	16.43	0-3	0
	25	12	16.35		0
	25	25	16.34		0
	50	0	16.34		0

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-34
LTE Band 12 Conducted Powers Ant 3 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23035 (701.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23155 (713.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	16.66	16.62	16.63	0	0
	1	12	16.69	16.58	16.71		0
	1	24	16.65	16.47	16.78		0
	12	0	16.81	16.70	16.70	0-1	0
	12	6	16.77	16.61	16.70		0
	12	13	16.71	16.57	16.82		0
	25	0	16.77	16.60	16.75		0
16QAM	1	0	16.91	17.00	16.98	0-1	0
	1	12	16.96	16.88	16.98		0
	1	24	16.98	16.85	16.99		0
	12	0	16.85	16.76	16.76	0-2	0
	12	6	16.83	16.65	16.76		0
	12	13	16.79	16.63	16.86		0
	25	0	16.81	16.63	16.75		0
64QAM	1	0	16.98	16.88	16.91	0-2	0
	1	12	17.00	16.95	17.00		0
	1	24	16.90	16.71	16.93		0
	12	0	16.87	16.76	16.69	0-3	0
	12	6	16.87	16.64	16.71		0
	12	13	16.76	16.58	16.87		0
	25	0	16.83	16.67	16.75		0

Table 8-35
LTE Band 12 Conducted Powers Ant 3 - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23025 (700.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23165 (714.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	16.61	16.55	16.56	0	0
	1	7	16.64	16.51	16.64		0
	1	14	16.60	16.40	16.71		0
	8	0	16.76	16.63	16.63	0-1	0
	8	4	16.72	16.54	16.63		0
	8	7	16.66	16.50	16.75		0
	15	0	16.72	16.53	16.68		0
16QAM	1	0	16.86	17.00	16.91	0-1	0
	1	7	16.91	16.81	16.96		0
	1	14	16.93	16.78	17.00		0
	8	0	16.77	16.69	16.69	0-2	0
	8	4	16.75	16.57	16.69		0
	8	7	16.71	16.55	16.79		0
	15	0	16.73	16.55	16.70		0
64QAM	1	0	16.90	16.80	16.86	0-2	0
	1	7	16.98	16.87	16.95		0
	1	14	16.82	16.63	16.88		0
	8	0	16.79	16.68	16.64	0-3	0
	8	4	16.79	16.56	16.66		0
	8	7	16.68	16.50	16.82		0
	15	0	16.75	16.59	16.70		0

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Table 8-36
LTE Band 12 Conducted Powers Ant 3 - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23017 (699.7 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23173 (715.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	16.58	16.51	16.52	0	0
	1	2	16.61	16.47	16.60		0
	1	5	16.57	16.36	16.67		0
	3	0	16.73	16.59	16.59		0
	3	2	16.69	16.50	16.59		0
	3	3	16.63	16.46	16.71		0
	6	0	16.69	16.49	16.64	0-1	0
16QAM	1	0	16.83	16.97	16.87	0-1	0
	1	2	16.88	16.77	16.92		0
	1	5	16.90	16.74	17.00		0
	3	0	16.71	16.65	16.66		0
	3	2	16.69	16.53	16.66		0
	3	3	16.65	16.51	16.76		0
	6	0	16.67	16.51	16.67	0-2	0
64QAM	1	0	16.84	16.77	16.83	0-2	0
	1	2	16.92	16.84	16.92		0
	1	5	16.76	16.60	16.85		0
	3	0	16.73	16.65	16.61		0
	3	2	16.73	16.53	16.63		0
	3	3	16.62	16.47	16.79		0
	6	0	16.69	16.56	16.67	0-3	0

8.3.3 LTE Band 13

Table 8-37
LTE Band 13 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	**21.26**	0	0
	1	25	20.82		0
	1	49	20.80		0
	25	0	**20.95**	0-1	0
	25	12	20.91		0
	25	25	20.86		0
	50	0	20.94		0
16QAM	1	0	21.27	0-1	0
	1	25	20.79		0
	1	49	20.66		0
	25	0	20.81	0-2	0
	25	12	20.73		0
	25	25	20.65		0
	50	0	20.77		0
64QAM	1	0	21.30	0-2	0
	1	25	20.92		0
	1	49	20.86		0
	25	0	20.79	0-3	0
	25	12	20.73		0
	25	25	20.64		0
	50	0	20.78		0

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Table 8-38
LTE Band 13 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	21.08	0	0
	1	12	21.04		0
	1	24	21.07		0
	12	0	20.92	0-1	0
	12	6	20.94		0
	12	13	20.98		0
	25	0	20.97		0
16QAM	1	0	21.20	0-1	0
	1	12	21.18		0
	1	24	21.10		0
	12	0	20.98	0-2	0
	12	6	21.00		0
	12	13	20.97		0
	25	0	20.95		0
64QAM	1	0	20.88	0-2	0
	1	12	20.78		0
	1	24	21.01		0
	12	0	20.68	0-3	0
	12	6	20.77		0
	12	13	20.76		0
	25	0	20.74		0

Note: LTE Band 13 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-39
LTE Band 13 Conducted Powers Ant 1 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**18.19**	0	0
	1	25	17.98		0
	1	49	17.78		0
	25	0	18.06	0-1	0
	25	12	**18.11**		0
	25	25	18.00		0
	50	0	18.10		0
16QAM	1	0	18.45	0-1	0
	1	25	18.34		0
	1	49	18.20		0
	25	0	18.04	0-2	0
	25	12	18.12		0
	25	25	18.06		0
	50	0	18.17		0
64QAM	1	0	18.40	0-2	0
	1	25	18.38		0
	1	49	18.26		0
	25	0	18.09	0-3	0
	25	12	18.17		0
	25	25	18.10		0
	50	0	18.22		0

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Table 8-40
LTE Band 13 Conducted Powers Ant 1 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	18.04	0	0
	1	12	18.05		0
	1	24	17.98		0
	12	0	18.04	0-1	0
	12	6	18.12		0
	12	13	18.14		0
	25	0	18.14		0
16QAM	1	0	18.36	0-1	0
	1	12	18.36		0
	1	24	18.34		0
	12	0	18.13	0-2	0
	12	6	18.18		0
	12	13	18.18		0
	25	0	18.21		0
64QAM	1	0	18.35	0-2	0
	1	12	18.38		0
	1	24	18.33		0
	12	0	18.14	0-3	0
	12	6	18.16		0
	12	13	18.20		0
	25	0	18.22		0

Note: LTE Band 13 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-41
LTE Band 13 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**19.77**	0	0
	1	25	19.75		0
	1	49	19.70		0
	25	0	19.72	0-1	0
	25	12	**19.80**		0
	25	25	19.71		0
	50	0	19.76		0
16QAM	1	0	19.61	0-1	0
	1	25	19.58		0
	1	49	19.33		0
	25	0	19.44	0-2	0
	25	12	19.36		0
	25	25	19.45		0
	50	0	19.39		0
64QAM	1	0	19.80	0-2	0
	1	25	19.70		0
	1	49	19.39		0
	25	0	19.35	0-3	0
	25	12	19.33		0
	25	25	19.38		0
	50	0	19.38		0

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Table 8-42
LTE Band 13 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.77	0	0
	1	12	19.90		0
	1	24	19.85		0
	12	0	19.82	0-1	0
	12	6	19.88		0
	12	13	19.87		0
	25	0	19.90		0
16QAM	1	0	19.56	0-1	0
	1	12	19.88		0
	1	24	19.80		0
	12	0	19.53	0-2	0
	12	6	19.62		0
	12	13	19.66		0
	25	0	19.63		0
64QAM	1	0	19.67	0-2	0
	1	12	19.81		0
	1	24	19.75		0
	12	0	19.53	0-3	0
	12	6	19.62		0
	12	13	19.63		0
	25	0	19.67		0

Note: LTE Band 13 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-43
LTE Band 13 Conducted Powers Ant 3 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**16.62**	0	0
	1	25	16.50		0
	1	49	16.32		0
	25	0	16.44	0-1	0
	25	12	**16.60**		0
	25	25	16.55		0
	50	0	16.59		0
16QAM	1	0	16.90	0-1	0
	1	25	16.87		0
	1	49	16.69		0
	25	0	16.49	0-2	0
	25	12	16.67		0
	25	25	16.56		0
	50	0	16.65		0
64QAM	1	0	16.82	0-2	0
	1	25	16.87		0
	1	49	16.70		0
	25	0	16.46	0-3	0
	25	12	16.65		0
	25	25	16.61		0
	50	0	16.65		0

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Table 8-44
LTE Band 13 Conducted Powers Ant 3 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	16.31	0	0
	1	12	16.47		0
	1	24	16.51		0
	12	0	16.52	0-1	0
	12	6	16.54		0
	12	13	16.59		0
	25	0	16.60		0
16QAM	1	0	16.49	0-1	0
	1	12	16.65		0
	1	24	16.90		0
	12	0	16.54	0-2	0
	12	6	16.64		0
	12	13	16.65		0
	25	0	16.62		0
64QAM	1	0	16.66	0-2	0
	1	12	16.84		0
	1	24	16.63		0
	12	0	16.55	0-3	0
	12	6	16.62		0
	12	13	16.63		0
	25	0	16.63		0

Note: LTE Band 13 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

8.3.4 LTE Band 14

Table 8-45
LTE Band 14 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	20.96	0	0
	1	25	21.02		0
	1	49	**21.20**		0
	25	0	20.82	0-1	0
	25	12	20.88		0
	25	25	**20.99**		0
	50	0	20.92		0
16QAM	1	0	20.95	0-1	0
	1	25	20.99		0
	1	49	21.13		0
	25	0	20.61	0-2	0
	25	12	20.66		0
	25	25	20.79		0
	50	0	20.73		0
64QAM	1	0	20.91	0-2	0
	1	25	20.89		0
	1	49	21.06		0
	25	0	20.66	0-3	0
	25	12	20.65		0
	25	25	20.79		0
	50	0	20.76		0

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Table 8-46
LTE Band 14 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	20.97	0	0
	1	12	21.03		0
	1	24	21.04		0
	12	0	20.92	0-1	0
	12	6	20.92		0
	12	13	21.03		0
	25	0	20.99		0
16QAM	1	0	20.90	0-1	0
	1	12	20.90		0
	1	24	20.98		0
	12	0	20.74	0-2	0
	12	6	20.78		0
	12	13	20.87		0
	25	0	20.81		0
64QAM	1	0	20.73	0-2	0
	1	12	21.01		0
	1	24	20.95		0
	12	0	20.75	0-3	0
	12	6	20.77		0
	12	13	20.85		0
	25	0	20.83		0

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-47
LTE Band 14 Conducted Powers Ant 1 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**18.20**	0	0
	1	25	18.07		0
	1	49	18.14		0
	25	0	18.23	0-1	0
	25	12	18.17		0
	25	25	**18.28**		0
	50	0	18.19		0
16QAM	1	0	18.21	0-1	0
	1	25	18.13		0
	1	49	18.23		0
	25	0	18.03	0-2	0
	25	12	18.00		0
	25	25	18.08		0
	50	0	17.99		0
64QAM	1	0	18.24	0-2	0
	1	25	18.11		0
	1	49	18.21		0
	25	0	18.01	0-3	0
	25	12	17.98		0
	25	25	18.10		0
	50	0	18.02		0

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Table 8-48
LTE Band 14 Conducted Powers Ant 1 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	17.84	0	0
	1	12	17.78		0
	1	24	17.94		0
	12	0	18.00	0-1	0
	12	6	17.89		0
	12	13	18.00		0
	25	0	17.97		0
16QAM	1	0	18.20	0-1	0
	1	12	18.00		0
	1	24	18.34		0
	12	0	18.10	0-2	0
	12	6	17.97		0
	12	13	18.08		0
	25	0	18.01		0
64QAM	1	0	18.28	0-2	0
	1	12	17.94		0
	1	24	18.35		0
	12	0	18.08	0-3	0
	12	6	18.02		0
	12	13	18.03		0
	25	0	17.99		0

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-49
LTE Band 14 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.72	0	0
	1	25	19.63		0
	1	49	**19.87**		0
	25	0	19.70	0-1	0
	25	12	19.83		0
	25	25	**19.89**		0
	50	0	19.77		0
16QAM	1	0	19.83	0-1	0
	1	25	19.77		0
	1	49	19.90		0
	25	0	19.53	0-2	0
	25	12	19.63		0
	25	25	19.66		0
	50	0	19.57		0
64QAM	1	0	19.67	0-2	0
	1	25	19.56		0
	1	49	19.61		0
	25	0	19.39	0-3	0
	25	12	19.32		0
	25	25	19.47		0
	50	0	19.37		0

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Table 8-50
LTE Band 14 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.73	0	0
	1	12	19.74		0
	1	24	19.87		0
	12	0	19.86	0-1	0
	12	6	19.83		0
	12	13	19.90		0
	25	0	19.84		0
16QAM	1	0	19.74	0-1	0
	1	12	19.90		0
	1	24	19.90		0
	12	0	19.57	0-2	0
	12	6	19.56		0
	12	13	19.57		0
	25	0	19.51		0
64QAM	1	0	19.58	0-2	0
	1	12	19.72		0
	1	24	19.90		0
	12	0	19.53	0-3	0
	12	6	19.54		0
	12	13	19.58		0
	25	0	19.48		0

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-51
LTE Band 14 Conducted Powers Ant 3 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**16.71**	0	0
	1	25	16.51		0
	1	49	16.69		0
	25	0	16.65	0-1	0
	25	12	16.62		0
	25	25	**16.68**		0
	50	0	16.63		0
16QAM	1	0	16.71	0-1	0
	1	25	16.61		0
	1	49	16.80		0
	25	0	16.43	0-2	0
	25	12	16.44		0
	25	25	16.40		0
	50	0	16.41		0
64QAM	1	0	16.75	0-2	0
	1	25	16.56		0
	1	49	16.77		0
	25	0	16.42	0-3	0
	25	12	16.41		0
	25	25	16.46		0
	50	0	16.44		0

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Table 8-52
LTE Band 14 Conducted Powers Ant 3 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	16.44	0	0
	1	12	16.46		0
	1	24	16.57		0
	12	0	16.61	0-1	0
	12	6	16.60		0
	12	13	16.61		0
	25	0	16.64		0
16QAM	1	0	16.77	0-1	0
	1	12	16.79		0
	1	24	16.99		0
	12	0	16.65	0-2	0
	12	6	16.71		0
	12	13	16.70		0
	25	0	16.69		0
64QAM	1	0	16.61	0-2	0
	1	12	16.85		0
	1	24	16.74		0
	12	0	16.70	0-3	0
	12	6	16.64		0
	12	13	16.67		0
	25	0	16.69		0

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

8.3.5 LTE Band 26

Table 8-53
LTE Band 26 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**20.55**	20.31	20.49	0	0
	1	25	20.35	20.26	20.39		0
	1	49	20.49	20.33	20.45		0
	25	0	20.32	20.36	**20.49**	0-1	0
	25	12	20.26	20.33	20.35		0
	25	25	20.32	20.30	20.29		0
	50	0	20.36	20.34	20.29		0
16QAM	1	0	20.41	20.57	20.48	0-1	0
	1	25	20.29	20.38	20.29		0
	1	49	20.35	20.46	20.37		0
	25	0	20.15	20.15	20.20	0-2	0
	25	12	20.11	20.10	20.09		0
	25	25	20.13	20.09	20.02		0
	50	0	20.10	20.08	20.13		0
64QAM	1	0	20.35	20.39	20.47	0-2	0
	1	25	20.30	20.40	20.34		0
	1	49	20.40	20.20	20.36		0
	25	0	20.11	20.16	20.19	0-3	0
	25	12	20.09	20.18	20.10		0
	25	25	20.14	20.09	20.04		0
	50	0	20.09	20.14	20.05		0

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Table 8-54
LTE Band 26 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 26 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26715 (816.5 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27015 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.53	20.46	20.52	0	0
	1	12	20.38	20.39	20.42		0
	1	24	20.46	20.44	20.52		0
	12	0	20.48	20.53	20.51	0-1	0
	12	6	20.45	20.48	20.44		0
	12	13	20.50	20.44	20.38		0
	25	0	20.48	20.44	20.44		0
16QAM	1	0	20.15	20.44	20.47	0-1	0
	1	12	20.13	20.24	20.41		0
	1	24	20.11	20.20	20.42		0
	12	0	20.02	20.10	20.09	0-2	0
	12	6	20.00	20.05	19.94		0
	12	13	20.06	20.04	19.89		0
	25	0	20.03	20.04	20.01		0
64QAM	1	0	20.36	20.23	20.56	0-2	0
	1	12	20.14	20.38	20.29		0
	1	24	20.39	20.43	20.38		0
	12	0	20.01	20.12	20.09	0-3	0
	12	6	19.98	20.05	19.95		0
	12	13	20.06	19.99	19.91		0
	25	0	20.01	20.04	19.97		0

Table 8-55
LTE Band 26 Conducted Powers Ant 1 - 3 MHz Bandwidth

LTE Band 26 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26705 (815.5 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27025 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.51	20.33	20.28	0	0
	1	7	20.40	20.37	20.46		0
	1	14	20.32	20.29	20.43		0
	8	0	20.54	20.46	20.43	0-1	0
	8	4	20.45	20.43	20.54		0
	8	7	20.44	20.43	20.56		0
	15	0	20.48	20.47	20.56		0
16QAM	1	0	20.54	20.22	20.31	0-1	0
	1	7	20.50	20.29	20.25		0
	1	14	20.49	20.10	20.22		0
	8	0	20.12	20.11	20.04	0-2	0
	8	4	20.06	20.11	19.92		0
	8	7	19.93	20.09	20.11		0
	15	0	20.04	20.09	20.04		0
64QAM	1	0	20.56	20.17	20.19	0-2	0
	1	7	20.25	20.27	20.28		0
	1	14	20.23	20.41	20.41		0
	8	0	20.08	20.12	20.00	0-3	0
	8	4	20.12	20.09	19.94		0
	8	7	19.96	20.07	20.13		0
	15	0	20.07	20.06	20.01		0

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Table 8-56
LTE Band 26 Conducted Powers Ant 1 - 1.4 MHz Bandwidth

LTE Band 26 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26697 (814.7 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27033 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.48	20.29	20.54	0	0
	1	2	20.37	20.28	20.56		0
	1	5	20.32	20.28	20.56		0
	3	0	20.48	20.36	20.48		0
	3	2	20.47	20.37	20.47		0
	3	3	20.47	20.33	20.48		0
	6	0	20.45	20.37	20.47	0-1	0
16QAM	1	0	20.49	20.47	20.55	0-1	0
	1	2	20.54	20.50	20.55		0
	1	5	20.46	20.49	20.54		0
	3	0	20.45	20.41	20.46		0
	3	2	20.50	20.39	20.48		0
	3	3	20.46	20.43	20.35		0
	6	0	20.42	20.40	20.40	0-2	0
64QAM	1	0	20.55	20.31	20.50	0-2	0
	1	2	20.42	20.43	20.48		0
	1	5	20.41	20.44	20.51		0
	3	0	20.34	20.42	20.52		0
	3	2	20.31	20.41	20.56		0
	3	3	20.40	20.39	20.52		0
	6	0	20.44	20.29	20.41	0-3	0

Table 8-57
LTE Band 26 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.27	20.23	20.27	0	0
	1	25	20.18	20.18	20.20		0
	1	49	**20.29**	20.23	20.23		0
	25	0	20.17	20.27	20.28	0-1	0
	25	12	20.22	20.23	20.23		0
	25	25	**20.30**	20.22	20.22		0
	50	0	20.26	20.25	20.24		0
16QAM	1	0	20.27	20.28	20.30	0-1	0
	1	25	20.24	20.26	20.29		0
	1	49	20.30	20.30	20.27		0
	25	0	19.97	20.03	20.05	0-2	0
	25	12	19.99	19.99	20.02		0
	25	25	20.10	19.96	19.98		0
	50	0	20.01	20.02	20.02		0
64QAM	1	0	20.25	20.30	20.16	0-2	0
	1	25	20.03	20.30	20.21		0
	1	49	20.15	20.18	20.15		0
	25	0	19.75	19.90	19.80	0-3	0
	25	12	19.70	19.90	19.96		0
	25	25	19.77	19.85	19.80		0
	50	0	19.73	19.92	19.95		0

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Table 8-58
LTE Band 26 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 26 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26715 (816.5 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27015 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.06	20.24	20.11	0	0
	1	12	19.92	20.16	20.11		0
	1	24	20.00	20.20	20.19		0
	12	0	20.10	20.17	20.09	0-1	0
	12	6	20.08	20.14	20.10		0
	12	13	20.15	20.13	20.09		0
	25	0	20.06	20.14	20.13		0
16QAM	1	0	20.11	20.20	20.20	0-1	0
	1	12	20.12	20.12	19.87		0
	1	24	20.11	20.23	20.26		0
	12	0	19.92	20.00	19.94	0-2	0
	12	6	20.03	20.01	19.98		0
	12	13	20.07	20.07	19.95		0
	25	0	19.97	20.08	19.93		0
64QAM	1	0	20.19	20.17	20.15	0-2	0
	1	12	20.08	20.17	19.89		0
	1	24	20.05	20.06	20.02		0
	12	0	20.04	20.03	19.99	0-3	0
	12	6	19.94	20.03	19.89		0
	12	13	19.90	19.98	19.87		0
	25	0	19.95	20.01	19.95		0

Table 8-59
LTE Band 26 Conducted Powers Ant 3 - 3 MHz Bandwidth

LTE Band 26 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26705 (815.5 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27025 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.22	20.13	20.15	0	0
	1	7	20.17	20.16	20.15		0
	1	14	20.09	20.10	20.15		0
	8	0	20.30	20.25	20.26	0-1	0
	8	4	20.20	20.23	20.23		0
	8	7	20.19	20.21	20.30		0
	15	0	20.23	20.25	20.24		0
16QAM	1	0	20.22	20.03	20.11	0-1	0
	1	7	20.12	20.07	20.13		0
	1	14	20.08	20.11	20.29		0
	8	0	20.17	20.14	20.02	0-2	0
	8	4	20.01	20.15	20.02		0
	8	7	20.07	20.03	20.09		0
	15	0	20.10	20.04	19.95		0
64QAM	1	0	20.15	19.98	20.11	0-2	0
	1	7	20.27	20.14	20.21		0
	1	14	20.13	20.02	20.28		0
	8	0	20.06	20.17	20.05	0-3	0
	8	4	20.01	20.11	19.98		0
	8	7	20.06	20.08	20.10		0
	15	0	20.06	20.06	20.10		0

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Table 8-60
LTE Band 26 Conducted Powers Ant 3 - 1.4 MHz Bandwidth

LTE Band 26 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26697 (814.7 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27033 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.25	20.17	20.21	0	0
	1	2	20.22	20.16	20.25		0
	1	5	20.15	20.18	20.28		0
	3	0	20.30	20.22	20.28		0
	3	2	20.28	20.22	20.29		0
	3	3	20.29	20.20	20.29		0
	6	0	20.29	20.22	20.28	0-1	0
16QAM	1	0	20.30	20.20	20.08	0-1	0
	1	2	20.24	20.12	20.30		0
	1	5	20.19	20.17	20.30		0
	3	0	20.27	20.17	20.19		0
	3	2	20.21	20.14	20.27		0
	3	3	20.10	20.17	20.19		0
	6	0	20.17	20.10	20.08	0-2	0
64QAM	1	0	20.26	20.26	20.20	0-2	0
	1	2	20.17	20.14	20.30		0
	1	5	20.19	20.14	20.18		0
	3	0	20.17	20.18	20.15		0
	3	2	20.15	20.18	20.24		0
	3	3	20.12	20.14	20.23		0
	6	0	20.17	20.07	20.16	0-3	0

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8.3.6 LTE Band 5

Table 8-61
LTE Band 5 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**20.47**	0	0
	1	25	20.40		0
	1	49	20.45		0
	25	0	20.36	0-1	0
	25	12	20.38		0
	25	25	**20.49**		0
	50	0	20.46		0
16QAM	1	0	20.40	0-1	0
	1	25	20.48		0
	1	49	20.43		0
	25	0	20.15	0-2	0
	25	12	20.13		0
	25	25	20.27		0
	50	0	20.21		0
64QAM	1	0	20.33	0-2	0
	1	25	20.41		0
	1	49	20.41		0
	25	0	19.92	0-3	0
	25	12	19.90		0
	25	25	19.91		0
	50	0	19.99		0

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

Table 8-62
LTE Band 5 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20425 (826.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20625 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.35	20.43	20.45	0	0
	1	12	20.33	20.40	20.43		0
	1	24	20.34	20.45	20.44		0
	12	0	20.38	20.42	20.37	0-1	0
	12	6	20.38	20.38	20.32		0
	12	13	20.39	20.43	20.46		0
	25	0	20.40	20.46	20.39		0
16QAM	1	0	20.38	20.37	20.39	0-1	0
	1	12	20.46	20.41	20.44		0
	1	24	20.42	20.58	20.59		0
	12	0	20.16	20.21	20.14	0-2	0
	12	6	20.15	20.15	20.07		0
	12	13	20.21	20.27	20.21		0
	25	0	20.15	20.25	20.09		0
64QAM	1	0	20.55	20.29	20.16	0-2	0
	1	12	20.31	20.48	20.45		0
	1	24	20.46	20.43	20.45		0
	12	0	20.09	20.22	20.14	0-3	0
	12	6	20.10	20.19	20.06		0
	12	13	20.13	20.22	20.21		0
	25	0	20.16	20.21	20.13		0

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Table 8-63
LTE Band 5 Conducted Powers Ant 1 - 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20415 (825.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20635 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.36	20.42	20.23	0	0
	1	7	20.43	20.45	20.41		0
	1	14	20.42	20.43	20.37		0
	8	0	20.45	20.46	20.40	0-1	0
	8	4	20.41	20.42	20.44		0
	8	7	20.42	20.41	20.43		0
	15	0	20.43	20.40	20.45		0
16QAM	1	0	20.40	20.44	20.31	0-1	0
	1	7	20.30	20.47	20.32		0
	1	14	20.26	20.45	20.37		0
	8	0	20.29	20.33	20.25	0-2	0
	8	4	20.20	20.34	20.26		0
	8	7	20.22	20.37	20.37		0
	15	0	20.22	20.31	20.29		0
64QAM	1	0	20.47	20.38	20.30	0-2	0
	1	7	20.38	20.47	20.44		0
	1	14	20.43	20.39	20.32		0
	8	0	20.31	20.19	20.26	0-3	0
	8	4	20.21	20.28	20.29		0
	8	7	20.29	20.34	20.36		0
	15	0	20.23	20.31	20.34		0

Table 8-64
LTE Band 5 Conducted Powers Ant 1 - 1.4 MHz Bandwidth

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20407 (824.7 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20643 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.45	20.47	20.43	0	0
	1	2	20.46	20.45	20.44		0
	1	5	20.58	20.46	20.40		0
	3	0	20.45	20.47	20.41		0
	3	2	20.45	20.41	20.47		0
	3	3	20.47	20.41	20.42		0
	6	0	20.46	20.40	20.40	0-1	0
16QAM	1	0	20.43	20.37	20.44	0-1	0
	1	2	20.46	20.44	20.45		0
	1	5	20.40	20.45	20.46		0
	3	0	20.38	20.41	20.44		0
	3	2	20.37	20.46	20.46		0
	3	3	20.41	20.45	20.47		0
	6	0	20.32	20.35	20.34	0-2	0
64QAM	1	0	20.43	20.42	20.46	0-2	0
	1	2	20.46	20.46	20.46		0
	1	5	20.40	20.45	20.45		0
	3	0	20.42	20.35	20.40		0
	3	2	20.43	20.36	20.37		0
	3	3	20.42	20.33	20.31		0
	6	0	20.32	20.38	20.31	0-3	0

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Table 8-65
LTE Band 5 Conducted Powers Ant 1 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	17.22	0	0
	1	25	17.25		0
	1	49	**17.32**		0
	25	0	17.25	0-1	0
	25	12	17.27		0
	25	25	**17.42**		0
	50	0	17.31		0
16QAM	1	0	17.52	0-1	0
	1	25	17.59		0
	1	49	17.58		0
	25	0	17.29	0-2	0
	25	12	17.30		0
	25	25	17.41		0
	50	0	17.40		0
64QAM	1	0	17.57	0-2	0
	1	25	17.48		0
	1	49	17.57		0
	25	0	17.30	0-3	0
	25	12	17.34		0
	25	25	17.46		0
	50	0	17.37		0

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

Table 8-66
LTE Band 5 Conducted Powers Ant 1 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20425 (826.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20625 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.26	17.05	17.24	0	0
	1	12	17.22	17.12	17.12		0
	1	24	17.25	17.24	17.25		0
	12	0	17.27	17.18	17.29	0-1	0
	12	6	17.27	17.23	17.20		0
	12	13	17.30	17.32	17.24		0
	25	0	17.30	17.30	17.21		0
16QAM	1	0	17.50	17.55	17.36	0-1	0
	1	12	17.57	17.50	17.28		0
	1	24	17.51	17.60	17.35		0
	12	0	17.33	17.16	17.38	0-2	0
	12	6	17.30	17.28	17.18		0
	12	13	17.33	17.34	17.26		0
	25	0	17.34	17.33	17.24		0
64QAM	1	0	17.57	17.37	17.55	0-2	0
	1	12	17.49	17.37	17.24		0
	1	24	17.59	17.57	17.40		0
	12	0	17.34	17.24	17.39	0-3	0
	12	6	17.39	17.26	17.18		0
	12	13	17.34	17.38	17.29		0
	25	0	17.36	17.34	17.22		0

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Table 8-67
LTE Band 5 Conducted Powers Ant 1 - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20415 (825.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20635 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.23	17.13	17.31	0	0
	1	7	17.19	17.20	17.19		0
	1	14	17.22	17.32	17.32		0
	8	0	17.24	17.26	17.36	0-1	0
	8	4	17.24	17.31	17.27		0
	8	7	17.27	17.40	17.31		0
	15	0	17.27	17.38	17.20		0
16QAM	1	0	17.47	17.60	17.35	0-1	0
	1	7	17.54	17.49	17.27		0
	1	14	17.53	17.60	17.34		0
	8	0	17.35	17.15	17.37	0-2	0
	8	4	17.32	17.27	17.17		0
	8	7	17.35	17.33	17.25		0
	15	0	17.36	17.36	17.29		0
64QAM	1	0	17.59	17.40	17.60	0-2	0
	1	7	17.45	17.40	17.29		0
	1	14	17.55	17.60	17.45		0
	8	0	17.30	17.27	17.44	0-3	0
	8	4	17.35	17.29	17.23		0
	8	7	17.30	17.41	17.34		0
	15	0	17.32	17.37	17.27		0

Table 8-68
LTE Band 5 Conducted Powers Ant 1 - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20407 (824.7 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20643 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.17	17.18	17.28	0	0
	1	2	17.13	17.25	17.16		0
	1	5	17.16	17.37	17.29		0
	3	0	17.18	17.31	17.33		0
	3	2	17.18	17.36	17.24		0
	3	3	17.21	17.45	17.28		0
	6	0	17.21	17.43	17.17	0-1	0
16QAM	1	0	17.41	17.60	17.60	0-1	0
	1	2	17.48	17.54	17.48		0
	1	5	17.45	17.60	17.59		0
	3	0	17.27	17.06	17.00		0
	3	2	17.24	17.18	17.12		0
	3	3	17.27	17.24	17.18		0
	6	0	17.28	17.27	17.21	0-2	0
64QAM	1	0	17.51	17.31	17.25	0-2	0
	1	2	17.37	17.31	17.25		0
	1	5	17.52	17.51	17.45		0
	3	0	17.27	17.18	17.12		0
	3	2	17.32	17.20	17.14		0
	3	3	17.27	17.32	17.26		0
	6	0	17.29	17.28	17.22	0-3	0

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Table 8-69
LTE Band 5 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**20.19**	0	0
	1	25	20.17		0
	1	49	20.18		0
	25	0	20.20	0-1	0
	25	12	20.25		0
	25	25	**20.28**		0
	50	0	20.18		0
16QAM	1	0	20.19	0-1	0
	1	25	20.22		0
	1	49	19.60		0
	25	0	19.98	0-2	0
	25	12	20.02		0
	25	25	20.10		0
	50	0	20.04		0
64QAM	1	0	20.24	0-2	0
	1	25	20.16		0
	1	49	20.09		0
	25	0	19.90	0-3	0
	25	12	19.80		0
	25	25	19.86		0
	50	0	19.83		0

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

Table 8-70
LTE Band 5 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20425 (826.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20625 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.30	20.14	20.08	0	0
	1	12	20.23	20.16	20.06		0
	1	24	20.26	20.22	20.13		0
	12	0	20.20	20.24	20.16	0-1	0
	12	6	20.19	20.26	20.19		0
	12	13	20.21	20.25	20.17		0
	25	0	20.23	20.26	20.22		0
16QAM	1	0	20.30	19.97	20.21	0-1	0
	1	12	20.14	20.12	20.12		0
	1	24	20.24	20.04	20.20		0
	12	0	20.09	20.09	20.00	0-2	0
	12	6	20.00	20.12	19.97		0
	12	13	20.07	19.99	19.94		0
	25	0	20.09	20.07	19.94		0
64QAM	1	0	20.23	19.93	20.17	0-2	0
	1	12	20.27	20.18	20.10		0
	1	24	20.10	20.05	20.14		0
	12	0	20.06	20.06	20.01	0-3	0
	12	6	20.02	19.97	19.96		0
	12	13	20.11	20.07	19.93		0
	25	0	20.08	19.96	19.95		0

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Table 8-71
LTE Band 5 Conducted Powers Ant 3 - 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20415 (825.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20635 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.24	20.22	20.15	0	0
	1	7	20.23	20.24	20.13		0
	1	14	20.19	20.20	20.16		0
	8	0	20.30	20.30	20.24	0-1	0
	8	4	20.26	20.30	20.20		0
	8	7	20.25	20.29	20.26		0
	15	0	20.24	20.28	20.22		0
16QAM	1	0	20.23	20.00	20.15	0-1	0
	1	7	20.16	20.23	20.11		0
	1	14	20.26	20.01	20.24		0
	8	0	20.26	20.20	20.01	0-2	0
	8	4	20.21	20.12	20.00		0
	8	7	20.19	20.15	20.14		0
	15	0	20.16	20.14	20.03		0
64QAM	1	0	20.30	20.00	20.10	0-2	0
	1	7	20.27	20.25	20.16		0
	1	14	20.22	20.17	20.13		0
	8	0	20.15	20.18	19.97	0-3	0
	8	4	20.10	20.10	20.02		0
	8	7	20.22	20.09	20.09		0
	15	0	20.13	20.16	20.03		0

Table 8-72
LTE Band 5 Conducted Powers Ant 3 - 1.4 MHz Bandwidth

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20407 (824.7 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20643 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.29	20.18	20.11	0	0
	1	2	20.30	20.15	20.16		0
	1	5	20.29	20.18	20.19		0
	3	0	20.30	20.27	20.26		0
	3	2	20.29	20.27	20.25		0
	3	3	20.29	20.29	20.25		0
	6	0	20.30	20.27	20.25	0-1	0
16QAM	1	0	20.21	20.25	20.21	0-1	0
	1	2	20.23	20.18	20.19		0
	1	5	20.20	20.05	20.30		0
	3	0	20.21	20.12	20.19		0
	3	2	20.12	20.22	20.07		0
	3	3	20.30	20.15	20.17		0
	6	0	20.15	20.09	20.24	0-2	0
64QAM	1	0	20.29	20.13	20.20	0-2	0
	1	2	20.29	20.10	20.30		0
	1	5	20.24	20.16	20.21		0
	3	0	20.15	20.20	20.27		0
	3	2	20.27	20.15	20.20		0
	3	3	20.28	20.14	20.12		0
	6	0	20.19	20.14	20.24	0-3	0

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Table 8-73
LTE Band 5 Conducted Powers Ant 3 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**17.29**	0	0
	1	25	17.15		0
	1	49	17.12		0
	25	0	17.19	0-1	0
	25	12	**17.23**		0
	25	25	17.18		0
	50	0	17.22		0
16QAM	1	0	17.25	0-1	0
	1	25	17.16		0
	1	49	17.23		0
	25	0	17.00	0-2	0
	25	12	16.97		0
	25	25	16.99		0
	50	0	16.94		0
64QAM	1	0	17.21	0-2	0
	1	25	17.16		0
	1	49	17.23		0
	25	0	16.98	0-3	0
	25	12	16.97		0
	25	25	16.98		0
	50	0	16.98		0

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

Table 8-74
LTE Band 5 Conducted Powers Ant 3 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20425 (826.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20625 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	16.97	16.84	16.97	0	0
	1	12	16.98	16.79	16.96		0
	1	24	17.04	16.80	16.92		0
	12	0	17.04	16.98	17.03	0-1	0
	12	6	17.04	16.93	17.02		0
	12	13	17.08	16.88	16.97		0
	25	0	17.08	16.94	17.05		0
16QAM	1	0	17.26	17.27	17.15	0-1	0
	1	12	17.20	17.21	17.28		0
	1	24	17.30	17.30	17.17		0
	12	0	17.09	17.01	17.07	0-2	0
	12	6	17.08	16.96	17.02		0
	12	13	17.11	16.93	16.97		0
	25	0	17.10	16.97	17.06		0
64QAM	1	0	17.26	17.27	17.30	0-2	0
	1	12	17.26	17.20	17.22		0
	1	24	17.30	17.20	17.03		0
	12	0	17.08	17.02	17.06	0-3	0
	12	6	17.12	16.99	17.03		0
	12	13	17.15	16.95	17.00		0
	25	0	17.16	17.00	17.05		0

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Table 8-75
LTE Band 5 Conducted Powers Ant 3 - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20415 (825.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20635 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	16.92	16.78	16.88	0	0
	1	7	16.93	16.73	16.87		0
	1	14	16.99	16.74	16.83		0
	8	0	16.99	16.92	16.94	0-1	0
	8	4	16.99	16.87	16.93		0
	8	7	17.03	16.82	16.88		0
	15	0	17.03	16.88	16.96		0
16QAM	1	0	17.21	17.21	17.06	0-1	0
	1	7	17.15	17.30	17.19		0
	1	14	17.27	17.26	17.08		0
	8	0	17.04	17.22	16.98	0-2	0
	8	4	17.03	17.17	16.93		0
	8	7	17.08	17.14	16.88		0
	15	0	17.07	17.18	17.04		0
64QAM	1	0	17.23	17.27	17.29	0-2	0
	1	7	17.23	17.29	17.20		0
	1	14	17.28	17.30	17.01		0
	8	0	17.05	17.23	17.04	0-3	0
	8	4	17.09	17.20	17.01		0
	8	7	17.12	17.16	16.98		0
	15	0	17.13	17.21	17.03		0

Table 8-76
LTE Band 5 Conducted Powers Ant 3 - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20407 (824.7 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20643 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	16.90	16.74	16.85	0	0
	1	2	16.91	16.69	16.84		0
	1	5	16.97	16.70	16.80		0
	3	0	16.97	16.88	16.91		0
	3	2	16.97	16.83	16.90		0
	3	3	17.01	16.78	16.85		0
	6	0	17.01	16.84	16.93	0-1	0
16QAM	1	0	17.19	17.17	17.03	0-1	0
	1	2	17.13	17.28	17.16		0
	1	5	17.25	17.22	17.05		0
	3	0	17.02	17.18	16.95		0
	3	2	17.01	17.13	16.94		0
	3	3	17.06	17.10	16.89		0
	6	0	17.05	17.12	17.05	0-2	0
64QAM	1	0	17.21	17.29	17.26	0-2	0
	1	2	17.21	17.25	17.21		0
	1	5	17.30	17.24	17.02		0
	3	0	17.03	17.17	17.05		0
	3	2	17.07	17.14	17.02		0
	3	3	17.10	17.10	16.99		0
	6	0	17.11	17.15	17.04	0-3	0

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8.3.7 LTE Band 4

Table 8-77
LTE Band 4 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	14.17	0	0
	1	50	**14.36**		0
	1	99	13.97		0
	50	0	**14.41**	0-1	0
	50	25	14.30		0
	50	50	14.09		0
	100	0	14.29		0
16QAM	1	0	14.22	0-1	0
	1	50	14.33		0
	1	99	14.33		0
	50	0	14.18	0-2	0
	50	25	14.06		0
	50	50	13.90		0
	100	0	14.08		0
64QAM	1	0	14.30	0-2	0
	1	50	14.43		0
	1	99	14.22		0
	50	0	14.20	0-3	0
	50	25	14.14		0
	50	50	13.92		0
	100	0	14.09		0

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

Table 8-78
LTE Band 4 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.87	14.27	13.99	0	0
	1	36	13.85	14.42	13.90		0
	1	74	13.85	14.21	13.82		0
	36	0	13.86	14.38	13.93	0-1	0
	36	18	13.94	14.34	14.02		0
	36	37	13.98	14.23	13.96		0
	75	0	13.93	14.30	13.98		0
16QAM	1	0	13.85	14.13	14.02	0-1	0
	1	36	14.06	14.39	13.78		0
	1	74	13.98	14.14	13.85		0
	36	0	13.75	14.17	13.83	0-2	0
	36	18	13.80	14.15	13.81		0
	36	37	13.81	14.06	13.76		0
	75	0	13.75	14.10	13.78		0
64QAM	1	0	13.98	13.85	13.89	0-2	0
	1	36	13.89	14.15	13.87		0
	1	74	13.88	14.17	13.80		0
	36	0	13.82	14.17	13.78	0-3	0
	36	18	13.78	14.16	13.83		0
	36	37	13.82	14.04	13.79		0
	75	0	13.84	14.09	13.78		0

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Table 8-79
LTE Band 4 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.92	14.27	13.79	0	0
	1	25	13.75	14.19	13.77		0
	1	49	13.92	14.16	13.82		0
	25	0	13.94	14.35	13.93	0-1	0
	25	12	13.84	14.28	13.88		0
	25	25	13.92	14.21	13.91		0
	50	0	13.86	14.29	13.88		0
16QAM	1	0	14.02	14.45	13.83	0-1	0
	1	25	13.83	14.44	13.84		0
	1	49	13.83	14.26	14.08		0
	25	0	13.81	14.25	13.80	0-2	0
	25	12	13.76	14.15	13.79		0
	25	25	13.78	14.08	13.76		0
	50	0	13.77	14.16	13.80		0
64QAM	1	0	13.94	14.34	13.79	0-2	0
	1	25	13.79	14.29	13.88		0
	1	49	13.88	14.23	13.80		0
	25	0	13.79	14.22	13.76	0-3	0
	25	12	13.78	14.15	13.84		0
	25	25	13.75	14.08	13.80		0
	50	0	13.76	14.15	13.80		0

Table 8-80
LTE Band 4 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.02	14.32	13.86	0	0
	1	12	13.90	14.22	13.84		0
	1	24	13.83	14.14	13.86		0
	12	0	13.91	14.29	13.94	0-1	0
	12	6	13.87	14.27	13.96		0
	12	13	13.81	14.20	13.96		0
	25	0	13.92	14.29	13.92		0
16QAM	1	0	13.94	14.28	13.76	0-1	0
	1	12	13.93	14.11	13.80		0
	1	24	13.82	14.05	13.90		0
	12	0	13.81	14.07	13.80	0-2	0
	12	6	13.75	14.04	13.77		0
	12	13	13.83	13.91	13.79		0
	25	0	13.76	14.02	13.82		0
64QAM	1	0	13.84	14.34	13.83	0-2	0
	1	12	13.83	14.08	13.80		0
	1	24	13.77	14.07	13.94		0
	12	0	13.76	13.98	13.77	0-3	0
	12	6	13.76	13.95	13.83		0
	12	13	13.83	13.86	13.80		0
	25	0	13.81	13.99	13.77		0

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Table 8-81
LTE Band 4 Conducted Powers Ant 2a - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.92	14.08	13.79	0	0
	1	7	13.88	14.11	13.84		0
	1	14	13.81	13.97	13.80		0
	8	0	13.93	14.19	13.93	0-1	0
	8	4	13.92	14.15	13.92		0
	8	7	13.91	14.10	13.92		0
	15	0	13.95	14.20	13.95		0
16QAM	1	0	13.93	14.04	13.93	0-1	0
	1	7	14.01	14.12	14.05		0
	1	14	13.88	14.03	13.84		0
	8	0	13.80	14.07	13.80	0-2	0
	8	4	13.77	14.07	13.79		0
	8	7	13.76	14.02	13.78		0
	15	0	13.77	14.06	13.78		0
64QAM	1	0	13.84	14.11	13.83	0-2	0
	1	7	13.76	14.19	13.83		0
	1	14	13.80	14.03	13.83		0
	8	0	13.82	14.02	13.80	0-3	0
	8	4	13.77	14.05	13.77		0
	8	7	13.77	14.05	13.77		0
	15	0	13.79	14.04	13.76		0

Table 8-82
LTE Band 4 Conducted Powers Ant 2a - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.02	14.17	14.00	0	0
	1	2	13.91	14.12	13.95		0
	1	5	13.88	14.16	14.01		0
	3	0	13.99	14.20	13.88		0
	3	2	13.91	14.17	13.90		0
	3	3	13.92	14.17	13.92		0
	6	0	13.91	14.18	13.90	0-1	0
16QAM	1	0	13.97	14.19	13.90	0-1	0
	1	2	13.95	14.28	13.93		0
	1	5	13.88	14.24	13.96		0
	3	0	13.89	14.05	13.76		0
	3	2	13.91	14.11	13.86		0
	3	3	13.85	14.13	13.78		0
	6	0	13.76	14.09	13.85	0-2	0
64QAM	1	0	13.96	14.22	13.91	0-2	0
	1	2	13.92	14.06	14.13		0
	1	5	13.97	14.23	13.76		0
	3	0	13.93	14.08	13.97		0
	3	2	13.85	14.04	13.95		0
	3	3	13.75	14.15	13.96		0
	6	0	13.79	14.15	13.76	0-3	0

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Table 8-83
LTE Band 4 Conducted Powers Ant 2a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	11.00	0	0
	1	50	**11.25**		0
	1	99	11.06		0
	50	0	**11.45**	0-1	0
	50	25	11.42		0
	50	50	11.39		0
	100	0	11.24		0
16QAM	1	0	11.20	0-1	0
	1	50	11.30		0
	1	99	11.20		0
	50	0	10.95	0-2	0
	50	25	10.92		0
	50	50	10.87		0
	100	0	10.87		0
64QAM	1	0	10.99	0-2	0
	1	50	11.27		0
	1	99	11.16		0
	50	0	10.94	0-3	0
	50	25	10.90		0
	50	50	10.86		0
	100	0	10.88		0

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

Table 8-84
LTE Band 4 Conducted Powers Ant 2a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.06	11.31	11.13	0	0
	1	36	11.19	11.32	11.12		0
	1	74	11.30	11.01	11.06		0
	36	0	11.19	11.52	11.23	0-1	0
	36	18	11.27	11.46	11.25		0
	36	37	11.28	11.34	11.25		0
	75	0	11.23	11.42	11.20		0
16QAM	1	0	11.36	11.60	11.37	0-1	0
	1	36	11.55	11.63	11.60		0
	1	74	11.70	11.24	11.46		0
	36	0	11.22	11.35	11.26	0-2	0
	36	18	11.29	11.28	11.29		0
	36	37	11.29	11.33	11.28		0
	75	0	11.25	11.22	11.24		0
64QAM	1	0	11.44	11.45	11.31	0-2	0
	1	36	11.60	11.56	11.56		0
	1	74	11.49	11.40	11.53		0
	36	0	11.21	11.34	11.25	0-3	0
	36	18	11.30	11.28	11.28		0
	36	37	11.32	11.17	11.26		0
	75	0	11.26	11.23	11.25		0

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Table 8-85
LTE Band 4 Conducted Powers Ant 2a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.22	11.49	11.20	0	0
	1	25	11.21	11.41	11.22		0
	1	49	11.31	11.26	11.20		0
	25	0	11.20	11.63	11.23	0-1	0
	25	12	11.20	11.51	11.27		0
	25	25	11.25	11.48	11.28		0
	50	0	11.21	11.52	11.27		0
16QAM	1	0	11.62	11.52	11.62	0-1	0
	1	25	11.45	11.66	11.59		0
	1	49	11.70	11.53	11.56		0
	25	0	11.22	11.43	11.25	0-2	0
	25	12	11.18	11.32	11.27		0
	25	25	11.26	11.33	11.30		0
	50	0	11.24	11.25	11.29		0
64QAM	1	0	11.69	11.32	11.59	0-2	0
	1	25	11.71	11.71	11.67		0
	1	49	11.47	11.36	11.72		0
	25	0	11.20	11.38	11.26	0-3	0
	25	12	11.23	11.31	11.29		0
	25	25	11.24	11.29	11.30		0
	50	0	11.22	11.25	11.29		0

Table 8-86
LTE Band 4 Conducted Powers Ant 2a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.06	11.43	11.51	0	0
	1	12	11.06	11.42	11.61		0
	1	24	11.08	11.43	11.37		0
	12	0	11.15	11.48	11.48	0-1	0
	12	6	11.19	11.44	11.56		0
	12	13	11.18	11.47	11.59		0
	25	0	11.09	11.70	11.51		0
16QAM	1	0	11.25	11.64	11.48	0-1	0
	1	12	11.32	11.75	11.71		0
	1	24	11.24	11.54	11.69		0
	12	0	11.11	11.31	11.64	0-2	0
	12	6	11.16	11.28	11.66		0
	12	13	11.09	11.34	11.51		0
	25	0	11.17	11.28	11.52		0
64QAM	1	0	11.10	11.47	11.47	0-2	0
	1	12	11.27	11.57	11.61		0
	1	24	11.10	11.55	11.69		0
	12	0	11.14	11.43	11.67	0-3	0
	12	6	11.12	11.31	11.52		0
	12	13	11.14	11.29	11.63		0
	25	0	11.52	11.22	11.38		0

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Table 8-87
LTE Band 4 Conducted Powers Ant 2a - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.06	11.31	11.13	0	0
	1	7	11.19	11.32	11.12		0
	1	14	11.30	11.01	11.06		0
	8	0	11.19	11.52	11.23	0-1	0
	8	4	11.27	11.46	11.25		0
	8	7	11.28	11.34	11.25		0
	15	0	11.23	11.42	11.20		0
16QAM	1	0	11.36	11.60	11.37	0-1	0
	1	7	11.55	11.63	11.60		0
	1	14	11.70	11.24	11.46		0
	8	0	11.22	11.35	11.26	0-2	0
	8	4	11.29	11.28	11.29		0
	8	7	11.29	11.33	11.28		0
	15	0	11.25	11.22	11.24		0
64QAM	1	0	11.44	11.35	11.31	0-2	0
	1	7	11.60	11.56	11.56		0
	1	14	11.49	11.40	11.63		0
	8	0	11.21	11.34	11.25	0-3	0
	8	4	11.30	11.38	11.28		0
	8	7	11.32	11.27	11.26		0
	15	0	11.26	11.23	11.25		0

Table 8-88
LTE Band 4 Conducted Powers Ant 2a - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.22	11.49	11.20	0	0
	1	2	11.21	11.41	11.22		0
	1	5	11.31	11.26	11.20		0
	3	0	11.20	11.63	11.23		0
	3	2	11.20	11.51	11.27		0
	3	3	11.25	11.48	11.28		0
	6	0	11.21	11.52	11.27	0-1	0
16QAM	1	0	11.62	11.50	11.62	0-1	0
	1	2	11.45	11.66	11.59		0
	1	5	11.70	11.53	11.56		0
	3	0	11.22	11.43	11.25		0
	3	2	11.18	11.32	11.27		0
	3	3	11.26	11.33	11.30		0
	6	0	11.24	11.28	11.29	0-2	0
64QAM	1	0	11.69	11.43	11.59	0-2	0
	1	2	11.71	11.71	11.67		0
	1	5	11.47	11.46	11.72		0
	3	0	11.20	11.38	11.26		0
	3	2	11.23	11.31	11.29		0
	3	3	11.24	11.29	11.30		0
	6	0	11.22	11.34	11.29	0-3	0

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Table 8-89
LTE Band 4 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	13.98	0	0
	1	50	**14.30**		0
	1	99	14.15		0
	50	0	**14.31**	0-1	0
	50	25	14.30		0
	50	50	14.17		0
	100	0	14.29		0
16QAM	1	0	14.30	0-1	0
	1	50	14.47		0
	1	99	14.35		0
	50	0	14.55	0-2	0
	50	25	14.50		0
	50	50	14.24		0
	100	0	14.32		0
64QAM	1	0	14.37	0-2	0
	1	50	14.52		0
	1	99	14.31		0
	50	0	14.52	0-3	0
	50	25	14.50		0
	50	50	14.41		0
	100	0	14.45		0

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

Table 8-90
LTE Band 4 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.91	14.33	14.18	0	0
	1	36	13.94	14.55	13.93		0
	1	74	13.96	14.25	13.94		0
	36	0	13.95	14.48	13.98	0-1	0
	36	18	14.02	14.46	14.02		0
	36	37	14.05	14.32	13.94		0
	75	0	13.99	14.44	13.98		0
16QAM	1	0	14.30	14.51	14.57	0-1	0
	1	36	14.23	14.53	14.38		0
	1	74	14.20	14.41	14.18		0
	36	0	13.92	14.56	14.08	0-2	0
	36	18	14.08	14.51	14.10		0
	36	37	14.11	14.35	14.04		0
	75	0	14.05	14.46	14.08		0
64QAM	1	0	14.27	14.32	14.43	0-2	0
	1	36	14.25	14.54	14.22		0
	1	74	14.19	14.34	14.04		0
	36	0	13.93	14.52	14.08	0-3	0
	36	18	14.08	14.48	14.17		0
	36	37	14.09	14.34	14.08		0
	75	0	14.06	14.45	14.06		0

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Table 8-91
LTE Band 4 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.05	14.43	13.98	0	0
	1	25	13.91	14.35	13.96		0
	1	49	14.03	14.12	13.93		0
	25	0	14.01	14.50	14.12	0-1	0
	25	12	13.99	14.41	14.07		0
	25	25	14.04	14.31	13.96		0
	50	0	13.99	14.41	14.06		0
16QAM	1	0	14.35	14.48	14.28	0-1	0
	1	25	14.20	14.37	14.31		0
	1	49	14.31	14.34	14.02		0
	25	0	13.95	14.44	14.06	0-2	0
	25	12	13.92	14.37	14.00		0
	25	25	13.99	14.25	13.95		0
	50	0	13.97	14.37	14.04		0
64QAM	1	0	14.25	14.50	14.11	0-2	0
	1	25	14.09	14.56	14.12		0
	1	49	14.24	14.47	14.16		0
	25	0	13.94	14.47	14.06	0-3	0
	25	12	13.94	14.39	14.04		0
	25	25	14.02	14.28	13.96		0
	50	0	13.98	14.37	14.05		0

Table 8-92
LTE Band 4 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.04	14.36	14.02	0	0
	1	12	13.95	14.29	13.90		0
	1	24	13.98	14.26	13.90		0
	12	0	14.03	14.36	13.93	0-1	0
	12	6	13.95	14.35	14.04		0
	12	13	13.97	14.31	14.02		0
	25	0	13.94	14.36	14.05		0
16QAM	1	0	14.12	14.51	14.21	0-1	0
	1	12	14.14	14.55	14.07		0
	1	24	14.01	14.47	14.12		0
	12	0	14.16	14.39	14.04	0-2	0
	12	6	14.00	14.40	13.90		0
	12	13	13.95	14.38	13.95		0
	25	0	14.01	14.40	13.92		0
64QAM	1	0	14.27	14.51	14.19	0-2	0
	1	12	14.11	14.37	13.96		0
	1	24	13.90	14.44	14.13		0
	12	0	14.07	14.36	14.03	0-3	0
	12	6	14.00	14.36	13.91		0
	12	13	13.97	14.28	13.90		0
	25	0	14.06	14.38	13.90		0

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Table 8-93
LTE Band 4 Conducted Powers Ant 2b - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.97	14.23	13.93	0	0
	1	7	13.94	14.30	13.98		0
	1	14	13.91	14.18	13.92		0
	8	0	14.09	14.34	14.08	0-1	0
	8	4	13.98	14.33	14.05		0
	8	7	14.00	14.31	14.05		0
	15	0	14.02	14.36	14.08		0
16QAM	1	0	14.30	14.40	14.06	0-1	0
	1	7	14.32	14.35	13.91		0
	1	14	14.18	14.44	14.06		0
	8	0	14.08	14.37	13.93	0-2	0
	8	4	14.01	14.37	13.92		0
	8	7	13.95	14.38	13.96		0
	15	0	13.97	14.38	13.95		0
64QAM	1	0	14.22	14.53	14.04	0-2	0
	1	7	14.21	14.52	14.01		0
	1	14	14.05	14.40	13.97		0
	8	0	14.08	14.35	13.94	0-3	0
	8	4	13.97	14.36	13.92		0
	8	7	13.98	14.39	13.90		0
	15	0	13.99	14.38	13.92		0

Table 8-94
LTE Band 4 Conducted Powers Ant 2b - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.98	14.28	13.92	0	0
	1	2	13.96	14.27	13.90		0
	1	5	13.97	14.29	13.92		0
	3	0	14.04	14.32	14.00		0
	3	2	14.05	14.32	13.96		0
	3	3	14.04	14.30	13.96		0
	6	0	14.03	14.32	13.97	0-1	0
16QAM	1	0	14.25	14.54	14.08	0-1	0
	1	2	14.23	14.41	13.92		0
	1	5	14.09	14.55	14.05		0
	3	0	14.08	14.47	13.93		0
	3	2	14.10	14.44	13.93		0
	3	3	14.11	14.43	13.91		0
	6	0	14.08	14.40	13.95	0-2	0
64QAM	1	0	14.14	14.54	13.93	0-2	0
	1	2	14.21	14.56	13.97		0
	1	5	14.23	14.51	14.13		0
	3	0	14.05	14.42	14.10		0
	3	2	14.08	14.48	14.10		0
	3	3	14.13	14.40	14.05		0
	6	0	14.06	14.42	13.92	0-3	0

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Table 8-95
LTE Band 4 Conducted Powers Ant 2b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	11.22	0	0
	1	50	**11.41**		0
	1	99	11.06		0
	50	0	**11.54**	0-1	0
	50	25	11.36		0
	50	50	11.25		0
	100	0	11.33		0
16QAM	1	0	11.34	0-1	0
	1	50	11.47		0
	1	99	11.13		0
	50	0	11.29	0-2	0
	50	25	11.11		0
	50	50	11.00		0
	100	0	11.07		0
64QAM	1	0	11.13	0-2	0
	1	50	11.24		0
	1	99	10.99		0
	50	0	11.30	0-3	0
	50	25	11.09		0
	50	50	11.01		0
	100	0	11.07		0

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

Table 8-96
LTE Band 4 Conducted Powers Ant 2b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.91	10.98	11.07	0	0
	1	36	10.92	11.13	10.92		0
	1	74	10.95	10.99	10.95		0
	36	0	11.09	11.36	10.96	0-1	0
	36	18	11.09	11.23	10.97		0
	36	37	10.95	11.17	10.97		0
	75	0	11.06	11.19	10.90		0
16QAM	1	0	11.22	11.38	11.40	0-1	0
	1	36	11.19	11.57	11.22		0
	1	74	11.08	11.32	11.24		0
	36	0	11.11	11.36	10.99	0-2	0
	36	18	11.10	11.22	10.96		0
	36	37	10.98	11.17	10.96		0
	75	0	11.08	11.21	10.91		0
64QAM	1	0	11.10	11.29	11.44	0-2	0
	1	36	11.35	11.35	11.28		0
	1	74	11.15	11.60	11.04		0
	36	0	11.09	11.40	10.95	0-3	0
	36	18	11.14	11.28	10.97		0
	36	37	11.04	11.21	10.97		0
	75	0	11.09	11.22	10.90		0

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Table 8-97
LTE Band 4 Conducted Powers Ant 2b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.03	11.21	10.91	0	0
	1	25	11.07	11.04	10.93		0
	1	49	11.00	10.97	10.95		0
	25	0	10.99	11.30	10.95	0-1	0
	25	12	11.04	11.17	10.98		0
	25	25	11.02	11.15	11.03		0
	50	0	11.06	11.16	10.99		0
16QAM	1	0	11.42	11.40	11.43	0-1	0
	1	25	11.47	11.67	11.51		0
	1	49	11.32	11.46	11.52		0
	25	0	10.99	11.30	11.00	0-2	0
	25	12	11.04	11.15	10.99		0
	25	25	11.04	11.13	11.05		0
	50	0	11.08	11.17	10.99		0
64QAM	1	0	11.45	11.58	11.37	0-2	0
	1	25	11.48	11.69	11.42		0
	1	49	11.37	11.14	11.42		0
	25	0	10.98	11.31	10.99	0-3	0
	25	12	11.09	11.19	11.03		0
	25	25	11.05	11.14	11.06		0
	50	0	11.08	11.20	10.99		0

Table 8-98
LTE Band 4 Conducted Powers Ant 2b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.92	11.16	10.91	0	0
	1	12	10.95	11.06	10.92		0
	1	24	11.02	10.98	10.92		0
	12	0	10.96	11.26	11.00	0-1	0
	12	6	10.95	11.18	11.00		0
	12	13	11.01	11.12	10.99		0
	25	0	10.98	11.17	11.00		0
16QAM	1	0	11.06	11.54	11.01	0-1	0
	1	12	11.11	11.39	11.02		0
	1	24	11.26	11.48	11.21		0
	12	0	11.02	11.33	11.02	0-2	0
	12	6	10.99	11.27	11.09		0
	12	13	11.05	11.21	11.04		0
	25	0	10.97	11.23	11.06		0
64QAM	1	0	11.07	11.44	11.22	0-2	0
	1	12	11.17	11.37	11.27		0
	1	24	11.24	11.41	11.25		0
	12	0	11.00	11.31	11.02	0-3	0
	12	6	11.03	11.25	11.04		0
	12	13	11.07	11.23	11.05		0
	25	0	10.90	11.24	10.98		0

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Table 8-99
LTE Band 4 Conducted Powers Ant 2b - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.91	11.12	10.95	0	0
	1	7	10.98	11.02	10.94		0
	1	14	10.90	10.94	10.91		0
	8	0	10.95	11.22	11.02	0-1	0
	8	4	10.93	11.14	11.02		0
	8	7	10.99	11.08	11.01		0
	15	0	10.97	11.13	11.02		0
16QAM	1	0	10.94	11.50	10.99	0-1	0
	1	7	10.99	11.34	11.00		0
	1	14	11.14	11.43	11.19		0
	8	0	10.92	11.28	11.00	0-2	0
	8	4	10.94	11.22	11.07		0
	8	7	10.92	11.16	11.02		0
	15	0	10.99	11.18	11.04		0
64QAM	1	0	10.94	11.39	11.20	0-2	0
	1	7	11.04	11.31	11.25		0
	1	14	11.11	11.35	11.23		0
	8	0	10.94	11.25	11.00	0-3	0
	8	4	10.90	11.19	11.02		0
	8	7	10.94	11.17	11.03		0
	15	0	10.91	11.18	10.96		0

Table 8-100
LTE Band 4 Conducted Powers Ant 2b - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.91	11.02	10.91	0	0
	1	2	10.92	10.92	10.92		0
	1	5	10.98	10.94	10.94		0
	3	0	10.90	11.12	11.00		0
	3	2	10.91	11.04	11.00		0
	3	3	10.97	10.98	10.99		0
	6	0	10.94	11.03	11.00	0-1	0
16QAM	1	0	10.92	11.42	10.97	0-1	0
	1	2	10.97	11.26	10.98		0
	1	5	11.16	11.35	11.17		0
	3	0	10.91	11.20	10.94		0
	3	2	10.98	11.14	11.01		0
	3	3	10.94	11.08	10.96		0
	6	0	10.96	11.10	10.98	0-2	0
64QAM	1	0	10.96	11.31	11.14	0-2	0
	1	2	11.06	11.23	11.19		0
	1	5	11.13	11.27	11.17		0
	3	0	10.95	11.22	10.94		0
	3	2	10.92	11.16	10.96		0
	3	3	10.96	11.14	10.97		0
	6	0	10.96	11.15	10.90	0-3	0

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Table 8-101
LTE Band 4 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	14.28	0	0
	1	50	**14.37**		0
	1	99	14.15		0
	50	0	14.45	0-1	0
	50	25	**14.47**		0
	50	50	14.39		0
	100	0	14.36		0
16QAM	1	0	14.31	0-1	0
	1	50	14.32		0
	1	99	14.33		0
	50	0	14.18	0-2	0
	50	25	14.17		0
	50	50	14.16		0
	100	0	14.18		0
64QAM	1	0	14.45	0-2	0
	1	50	14.41		0
	1	99	14.27		0
	50	0	14.16	0-3	0
	50	25	14.15		0
	50	50	14.12		0
	100	0	14.14		0

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

Table 8-102
LTE Band 4 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.93	14.00	13.91	0	0
	1	36	14.00	14.06	13.82		0
	1	74	13.89	14.00	13.84		0
	36	0	14.00	14.15	13.91	0-1	0
	36	18	14.11	14.16	13.94		0
	36	37	14.08	14.10	13.93		0
	75	0	14.08	14.12	13.88		0
16QAM	1	0	14.00	13.89	14.06	0-1	0
	1	36	14.13	14.11	14.09		0
	1	74	13.81	13.90	13.92		0
	36	0	13.78	13.84	13.79	0-2	0
	36	18	13.88	13.91	13.84		0
	36	37	13.84	13.85	13.79		0
	75	0	13.83	13.83	13.77		0
64QAM	1	0	13.87	14.01	14.00	0-2	0
	1	36	14.00	14.11	14.07		0
	1	74	13.87	14.10	13.86		0
	36	0	13.78	13.88	13.62	0-3	0
	36	18	13.81	13.91	13.66		0
	36	37	13.81	13.91	13.69		0
	75	0	13.75	13.84	13.57		0

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Table 8-103
LTE Band 4 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.96	14.02	13.86	0	0
	1	25	13.84	13.95	13.85		0
	1	49	13.97	13.90	13.90		0
	25	0	14.02	14.07	13.93	0-1	0
	25	12	13.92	14.05	13.93		0
	25	25	14.01	14.05	13.98		0
	50	0	13.91	14.05	13.93		0
16QAM	1	0	13.89	13.91	14.00	0-1	0
	1	25	13.75	13.95	13.95		0
	1	49	13.81	14.06	13.96		0
	25	0	13.74	13.81	13.78	0-2	0
	25	12	13.66	13.81	13.82		0
	25	25	13.73	13.84	13.85		0
	50	0	13.65	13.86	13.77		0
64QAM	1	0	13.88	14.06	14.20	0-2	0
	1	25	13.81	13.99	14.48		0
	1	49	14.10	14.10	14.20		0
	25	0	13.75	13.87	13.76	0-3	0
	25	12	13.74	13.83	13.78		0
	25	25	13.74	13.83	13.87		0
	50	0	13.72	13.85	13.78		0

Table 8-104
LTE Band 4 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.75	13.91	13.71	0	0
	1	12	13.67	13.88	13.77		0
	1	24	13.74	13.87	13.89		0
	12	0	13.93	14.00	13.92	0-1	0
	12	6	13.93	14.02	13.98		0
	12	13	13.85	13.99	14.01		0
	25	0	13.93	14.00	14.00		0
16QAM	1	0	14.03	13.93	13.92	0-1	0
	1	12	13.79	13.92	14.04		0
	1	24	13.81	13.89	14.00		0
	12	0	13.73	13.80	13.77	0-2	0
	12	6	13.72	13.71	13.87		0
	12	13	13.65	13.74	13.83		0
	25	0	13.69	13.74	13.85		0
64QAM	1	0	13.82	14.11	13.85	0-2	0
	1	12	13.77	13.90	13.91		0
	1	24	13.63	13.82	13.80		0
	12	0	13.69	13.78	13.71	0-3	0
	12	6	13.72	13.78	13.80		0
	12	13	13.63	13.70	13.77		0
	25	0	13.63	13.80	13.79		0

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Table 8-105
LTE Band 4 Conducted Powers Ant 4a - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.78	13.85	13.86	0	0
	1	7	13.82	13.92	13.90		0
	1	14	13.76	13.85	13.84		0
	8	0	13.89	14.00	13.99	0-1	0
	8	4	13.90	14.00	13.97		0
	8	7	13.90	14.01	13.97		0
	15	0	13.92	14.01	14.01		0
16QAM	1	0	14.02	13.94	13.87	0-1	0
	1	7	13.76	13.91	13.99		0
	1	14	14.03	13.88	13.97		0
	8	0	13.78	13.85	13.84	0-2	0
	8	4	13.76	13.82	13.84		0
	8	7	13.78	13.85	13.79		0
	15	0	13.78	13.84	13.83		0
64QAM	1	0	14.05	14.07	13.87	0-2	0
	1	7	14.01	13.94	13.92		0
	1	14	13.97	13.90	13.99		0
	8	0	13.78	13.78	13.77	0-3	0
	8	4	13.77	13.76	13.77		0
	8	7	13.76	13.78	13.77		0
	15	0	13.77	13.83	13.84		0

Table 8-106
LTE Band 4 Conducted Powers Ant 4a - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.91	14.06	14.01	0	0
	1	2	14.03	14.06	13.99		0
	1	5	14.05	14.05	14.02		0
	3	0	14.06	14.01	13.93		0
	3	2	13.98	14.02	13.93		0
	3	3	13.98	14.02	13.95		0
	6	0	13.93	14.04	13.95	0-1	0
16QAM	1	0	13.75	14.00	13.94	0-1	0
	1	2	13.76	13.92	13.85		0
	1	5	13.83	14.10	13.97		0
	3	0	13.83	13.93	13.90		0
	3	2	13.76	13.84	13.84		0
	3	3	13.70	13.91	13.86		0
	6	0	13.70	13.90	13.83	0-2	0
64QAM	1	0	13.96	13.90	14.09	0-2	0
	1	2	13.98	14.03	13.91		0
	1	5	13.92	13.91	14.07		0
	3	0	13.93	13.95	13.91		0
	3	2	13.87	14.00	13.93		0
	3	3	13.89	14.00	13.98		0
	6	0	13.70	13.71	13.88	0-3	0

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Table 8-107
LTE Band 4 Conducted Powers Ant 4a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	11.35	0	0
	1	50	**11.48**		0
	1	99	11.34		0
	50	0	11.38	0-1	0
	50	25	**11.39**		0
	50	50	11.38		0
	100	0	11.38		0
16QAM	1	0	11.24	0-1	0
	1	50	11.32		0
	1	99	11.12		0
	50	0	11.01	0-2	0
	50	25	11.12		0
	50	50	11.06		0
	100	0	11.10		0
64QAM	1	0	10.92	0-2	0
	1	50	11.07		0
	1	99	11.05		0
	50	0	11.13	0-3	0
	50	25	11.11		0
	50	50	11.09		0
	100	0	11.01		0

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

Table 8-108
LTE Band 4 Conducted Powers Ant 4a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.75	10.87	10.85	0	0
	1	36	10.91	11.01	10.84		0
	1	74	10.82	10.79	10.78		0
	36	0	11.03	11.14	10.90	0-1	0
	36	18	11.06	11.16	10.95		0
	36	37	11.02	11.07	10.92		0
	75	0	11.03	11.14	10.96		0
16QAM	1	0	11.12	10.98	11.17	0-1	0
	1	36	11.17	11.50	11.25		0
	1	74	11.16	11.28	11.20		0
	36	0	10.93	11.15	10.93	0-2	0
	36	18	11.06	11.20	10.96		0
	36	37	11.05	11.09	10.94		0
	75	0	11.02	11.16	10.98		0
64QAM	1	0	11.06	11.39	11.01	0-2	0
	1	36	11.39	11.42	11.26		0
	1	74	11.11	11.20	11.15		0
	36	0	11.02	11.16	11.02	0-3	0
	36	18	11.04	11.18	11.04		0
	36	37	11.04	11.09	11.09		0
	75	0	11.00	11.15	11.05		0

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Table 8-109
LTE Band 4 Conducted Powers Ant 4a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.78	11.06	10.97	0	0
	1	25	10.87	10.98	11.05		0
	1	49	10.82	10.85	11.07		0
	25	0	10.82	11.14	11.03	0-1	0
	25	12	10.82	11.10	11.08		0
	25	25	10.80	11.08	11.07		0
	50	0	10.81	11.10	11.07		0
16QAM	1	0	11.17	11.48	11.13	0-1	0
	1	25	11.33	11.44	11.35		0
	1	49	11.22	11.42	11.45		0
	25	0	10.83	11.16	11.04	0-2	0
	25	12	10.80	11.07	11.10		0
	25	25	10.84	11.08	11.09		0
	50	0	10.83	11.10	11.10		0
64QAM	1	0	10.98	11.32	11.20	0-2	0
	1	25	10.97	11.46	11.29		0
	1	49	11.04	11.34	11.38		0
	25	0	10.87	11.19	11.03	0-3	0
	25	12	10.86	11.17	10.96		0
	25	25	10.85	11.11	10.92		0
	50	0	10.95	11.05	11.04		0

Table 8-110
LTE Band 4 Conducted Powers Ant 4a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.77	10.98	10.94	0	0
	1	12	10.86	10.92	10.92		0
	1	24	10.84	10.95	10.94		0
	12	0	10.80	11.06	11.02	0-1	0
	12	6	10.85	11.06	10.98		0
	12	13	10.84	11.08	10.96		0
	25	0	10.87	11.08	11.00		0
16QAM	1	0	10.92	11.45	11.12	0-1	0
	1	12	11.02	11.23	11.13		0
	1	24	11.09	11.35	11.11		0
	12	0	10.82	11.08	11.04	0-2	0
	12	6	10.91	11.12	11.04		0
	12	13	10.88	11.13	11.08		0
	25	0	10.93	11.11	11.00		0
64QAM	1	0	11.11	11.37	11.25	0-2	0
	1	12	11.31	11.46	11.43		0
	1	24	11.21	11.15	11.45		0
	12	0	10.77	11.10	11.03	0-3	0
	12	6	10.84	11.07	11.04		0
	12	13	10.88	11.08	11.05		0
	25	0	10.87	11.17	10.95		0

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Table 8-111
LTE Band 4 Conducted Powers Ant 4a - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.66	10.99	10.98	0	0
	1	7	10.70	11.01	11.00		0
	1	14	10.81	10.96	10.96		0
	8	0	10.77	11.03	11.02	0-1	0
	8	4	10.75	11.02	11.00		0
	8	7	10.79	11.03	11.01		0
	15	0	10.78	11.03	11.02		0
16QAM	1	0	10.98	11.22	11.30	0-1	0
	1	7	10.96	11.24	11.33		0
	1	14	10.97	11.20	11.25		0
	8	0	10.97	11.00	11.07	0-2	0
	8	4	10.99	11.02	11.04		0
	8	7	10.97	11.04	11.05		0
	15	0	11.01	11.02	11.04		0
64QAM	1	0	10.74	11.17	11.20	0-2	0
	1	7	10.85	11.20	11.23		0
	1	14	10.90	11.17	11.17		0
	8	0	10.70	11.05	11.07	0-3	0
	8	4	10.68	11.04	11.06		0
	8	7	10.73	11.05	11.07		0
	15	0	10.73	11.04	11.06		0

Table 8-112
LTE Band 4 Conducted Powers Ant 4a - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.65	11.01	11.01	0	0
	1	2	10.63	10.99	10.99		0
	1	5	10.66	11.00	11.03		0
	3	0	10.67	11.00	11.01		0
	3	2	10.69	11.01	11.01		0
	3	3	10.70	11.02	11.01		0
	6	0	10.70	11.02	11.03	0-1	0
16QAM	1	0	10.97	11.34	11.34	0-1	0
	1	2	10.96	11.27	11.36		0
	1	5	10.94	11.31	11.37		0
	3	0	10.75	11.07	11.15		0
	3	2	10.78	11.07	11.15		0
	3	3	10.78	11.06	11.15		0
	6	0	10.77	11.05	11.10	0-2	0
64QAM	1	0	10.89	11.23	11.19	0-2	0
	1	2	10.84	11.20	11.18		0
	1	5	10.87	11.24	11.23		0
	3	0	10.82	11.13	11.10		0
	3	2	10.82	11.11	11.12		0
	3	3	10.81	11.14	11.14		0
	6	0	10.77	11.07	11.05	0-3	0

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Table 8-113
LTE Band 4 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	13.59	0	0
	1	50	13.58		0
	1	99	**13.73**		0
	50	0	**14.01**	0-1	0
	50	25	13.89		0
	50	50	13.82		0
	100	0	13.72		0
16QAM	1	0	13.74	0-1	0
	1	50	13.82		0
	1	99	13.93		0
	50	0	13.78	0-2	0
	50	25	13.81		0
	50	50	13.74		0
	100	0	13.78		0
64QAM	1	0	13.81	0-2	0
	1	50	13.89		0
	1	99	13.84		0
	50	0	13.62	0-3	0
	50	25	13.61		0
	50	50	13.50		0
	100	0	13.59		0

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

Table 8-114
LTE Band 4 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.85	13.81	13.64	0	0
	1	36	13.83	13.89	13.74		0
	1	74	13.50	13.73	13.72		0
	36	0	14.00	13.82	13.86	0-1	0
	36	18	13.91	13.83	13.86		0
	36	37	13.74	13.72	13.80		0
	75	0	13.88	13.80	13.83		0
16QAM	1	0	14.01	13.59	13.63	0-1	0
	1	36	13.79	13.73	13.82		0
	1	74	13.58	13.52	13.71		0
	36	0	13.73	13.50	13.58	0-2	0
	36	18	13.62	13.50	13.62		0
	36	37	13.53	13.54	13.61		0
	75	0	13.60	13.53	13.60		0
64QAM	1	0	13.98	13.53	13.53	0-2	0
	1	36	13.81	13.62	13.76		0
	1	74	13.55	13.50	13.72		0
	36	0	13.73	13.62	13.65	0-3	0
	36	18	13.68	13.62	13.68		0
	36	37	13.56	13.54	13.62		0
	75	0	13.59	13.54	13.60		0

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Table 8-115
LTE Band 4 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.99	13.82	13.92	0	0
	1	25	13.89	13.76	13.86		0
	1	49	13.82	13.68	13.90		0
	25	0	14.00	13.86	13.97	0-1	0
	25	12	13.97	13.85	13.96		0
	25	25	13.90	13.84	13.99		0
	50	0	13.98	13.84	13.94		0
16QAM	1	0	13.72	13.81	13.77	0-1	0
	1	25	13.99	13.51	13.84		0
	1	49	13.65	13.61	13.84		0
	25	0	13.68	13.58	13.55	0-2	0
	25	12	13.60	13.54	13.54		0
	25	25	13.53	13.57	13.59		0
	50	0	13.61	13.56	13.52		0
64QAM	1	0	13.92	13.82	13.78	0-2	0
	1	25	13.68	13.65	13.62		0
	1	49	13.72	13.54	13.67		0
	25	0	13.69	13.59	13.58	0-3	0
	25	12	13.59	13.57	13.58		0
	25	25	13.52	13.52	13.57		0
	50	0	13.59	13.55	13.59		0

Table 8-116
LTE Band 4 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.90	13.59	13.70	0	0
	1	12	13.86	13.58	13.76		0
	1	24	13.77	13.59	13.83		0
	12	0	13.99	13.63	13.76	0-1	0
	12	6	14.00	13.58	13.86		0
	12	13	13.90	13.62	13.84		0
	25	0	14.02	13.65	13.86		0
16QAM	1	0	13.99	13.57	13.70	0-1	0
	1	12	13.79	13.54	13.74		0
	1	24	13.81	13.59	13.65		0
	12	0	13.68	13.54	13.56	0-2	0
	12	6	13.74	13.59	13.58		0
	12	13	13.61	13.50	13.56		0
	25	0	13.72	13.50	13.59		0
64QAM	1	0	13.81	13.62	13.70	0-2	0
	1	12	13.64	13.58	13.54		0
	1	24	13.82	13.75	13.59		0
	12	0	13.71	13.50	13.53	0-3	0
	12	6	13.71	13.55	13.55		0
	12	13	13.67	13.56	13.59		0
	25	0	13.69	13.57	13.55		0

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Table 8-117
LTE Band 4 Conducted Powers Ant 4b - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.77	13.59	13.72	0	0
	1	7	13.86	13.64	13.77		0
	1	14	13.79	13.59	13.72		0
	8	0	13.90	13.68	13.86	0-1	0
	8	4	13.92	13.68	13.86		0
	8	7	13.91	13.69	13.85		0
	15	0	13.94	13.72	13.87		0
16QAM	1	0	13.73	13.65	13.68	0-1	0
	1	7	13.98	13.57	13.62		0
	1	14	13.80	13.51	13.75		0
	8	0	13.73	13.56	13.59	0-2	0
	8	4	13.76	13.51	13.53		0
	8	7	13.71	13.52	13.60		0
	15	0	13.72	13.52	13.55		0
64QAM	1	0	13.71	13.54	13.61	0-2	0
	1	7	13.93	13.56	13.81		0
	1	14	13.74	13.55	13.61		0
	8	0	13.78	13.54	13.58	0-3	0
	8	4	13.75	13.58	13.59		0
	8	7	13.76	13.53	13.59		0
	15	0	13.73	13.55	13.56		0

Table 8-118
LTE Band 4 Conducted Powers Ant 4b - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.86	13.68	13.76	0	0
	1	2	13.83	13.67	13.75		0
	1	5	13.86	13.71	13.78		0
	3	0	13.92	13.71	13.80		0
	3	2	13.96	13.71	13.82		0
	3	3	13.94	13.72	13.81		0
	6	0	13.93	13.75	13.84	0-1	0
16QAM	1	0	13.86	13.56	13.73	0-1	0
	1	2	13.80	13.62	13.71		0
	1	5	13.92	13.54	13.71		0
	3	0	13.71	13.50	13.64		0
	3	2	13.73	13.51	13.72		0
	3	3	13.71	13.52	13.70		0
	6	0	13.67	13.51	13.71	0-2	0
64QAM	1	0	13.72	13.60	13.78	0-2	0
	1	2	13.74	13.53	13.63		0
	1	5	13.86	13.56	13.90		0
	3	0	13.73	13.56	13.79		0
	3	2	13.63	13.50	13.86		0
	3	3	13.61	13.52	13.84		0
	6	0	13.61	13.52	13.63	0-3	0

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Table 8-119
LTE Band 4 Conducted Powers Ant 4b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	11.05	0	0
	1	50	**11.21**		0
	1	99	11.15		0
	50	0	11.33	0-1	0
	50	25	**11.37**		0
	50	50	11.27		0
	100	0	11.20		0
16QAM	1	0	11.40	0-1	0
	1	50	11.39		0
	1	99	11.42		0
	50	0	11.24	0-2	0
	50	25	11.28		0
	50	50	11.19		0
	100	0	11.24		0
64QAM	1	0	11.36	0-2	0
	1	50	11.33		0
	1	99	11.45		0
	50	0	11.22	0-3	0
	50	25	11.25		0
	50	50	11.19		0
	100	0	11.17		0

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

Table 8-120
LTE Band 4 Conducted Powers Ant 4b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.89	11.17	11.12	0	0
	1	36	10.92	11.33	11.18		0
	1	74	10.73	10.97	11.14		0
	36	0	11.10	11.28	11.23	0-1	0
	36	18	11.09	11.33	11.23		0
	36	37	10.96	11.19	11.15		0
	75	0	11.06	11.28	11.20		0
16QAM	1	0	11.15	11.31	11.43	0-1	0
	1	36	11.34	11.48	11.50		0
	1	74	11.03	11.47	11.49		0
	36	0	11.10	11.33	11.25	0-2	0
	36	18	11.10	11.40	11.23		0
	36	37	11.00	11.24	11.15		0
	75	0	11.07	11.26	11.20		0
64QAM	1	0	11.31	11.45	11.48	0-2	0
	1	36	11.29	11.43	11.40		0
	1	74	11.20	11.43	11.42		0
	36	0	11.22	11.37	11.08	0-3	0
	36	18	11.19	11.35	11.12		0
	36	37	10.95	11.21	11.09		0
	75	0	11.15	11.32	11.10		0

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Table 8-121
LTE Band 4 Conducted Powers Ant 4b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.12	11.17	11.13	0	0
	1	25	11.10	11.15	10.95		0
	1	49	11.07	11.11	11.16		0
	25	0	11.11	11.14	11.00	0-1	0
	25	12	11.03	11.16	11.01		0
	25	25	11.04	11.16	11.17		0
	50	0	11.04	11.15	11.02		0
16QAM	1	0	11.29	11.46	11.38	0-1	0
	1	25	11.32	11.47	11.47		0
	1	49	11.37	11.50	11.49		0
	25	0	11.16	11.20	11.03	0-2	0
	25	12	11.11	11.18	11.01		0
	25	25	11.12	11.22	11.16		0
	50	0	11.08	11.21	11.01		0
64QAM	1	0	11.29	11.49	11.34	0-2	0
	1	25	11.24	11.42	11.33		0
	1	49	11.36	11.46	11.46		0
	25	0	11.17	11.04	10.98	0-3	0
	25	12	11.10	10.99	11.01		0
	25	25	11.12	11.03	11.16		0
	50	0	11.06	11.00	11.05		0

Table 8-122
LTE Band 4 Conducted Powers Ant 4b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.09	11.22	11.02	0	0
	1	12	11.20	11.16	11.09		0
	1	24	11.18	11.12	11.09		0
	12	0	11.20	11.21	11.10	0-1	0
	12	6	11.19	11.20	11.19		0
	12	13	11.18	11.18	11.15		0
	25	0	11.25	11.19	11.20		0
16QAM	1	0	11.43	11.50	11.34	0-1	0
	1	12	11.38	11.43	11.38		0
	1	24	11.45	11.48	11.48		0
	12	0	11.22	11.21	11.10	0-2	0
	12	6	11.30	11.17	11.22		0
	12	13	11.13	11.24	11.22		0
	25	0	11.19	11.11	11.19		0
64QAM	1	0	11.41	11.46	11.14	0-2	0
	1	12	11.41	11.47	11.42		0
	1	24	11.42	11.47	11.13		0
	12	0	11.17	11.20	11.11	0-3	0
	12	6	11.24	11.19	11.23		0
	12	13	11.12	11.21	11.21		0
	25	0	11.22	11.11	11.20		0

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Table 8-123
LTE Band 4 Conducted Powers Ant 4b - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.09	11.15	11.07	0	0
	1	7	11.07	11.13	10.89		0
	1	14	11.04	11.09	11.10		0
	8	0	11.08	11.12	10.94	0-1	0
	8	4	11.00	11.14	10.95		0
	8	7	11.01	11.14	11.11		0
	15	0	11.01	11.13	10.96		0
16QAM	1	0	11.26	11.44	11.32	0-1	0
	1	7	11.29	11.45	11.40		0
	1	14	11.34	11.48	11.47		0
	8	0	11.13	11.19	10.96	0-2	0
	8	4	11.08	11.17	10.94		0
	8	7	11.07	11.21	11.09		0
	15	0	11.03	11.00	10.94		0
64QAM	1	0	11.24	11.48	11.27	0-2	0
	1	7	11.19	11.41	11.26		0
	1	14	11.31	11.45	11.49		0
	8	0	11.12	11.03	10.91	0-3	0
	8	4	11.05	10.98	10.94		0
	8	7	11.07	11.02	11.09		0
	15	0	11.01	10.99	10.98		0

Table 8-124
LTE Band 4 Conducted Powers Ant 4b - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.07	11.23	10.96	0	0
	1	2	11.18	11.17	11.03		0
	1	5	11.16	11.13	11.03		0
	3	0	11.18	11.22	11.04		0
	3	2	11.17	11.21	11.13		0
	3	3	11.16	11.19	11.09		0
	6	0	11.23	11.15	11.14	0-1	0
16QAM	1	0	11.41	11.48	11.28	0-1	0
	1	2	11.36	11.49	11.32		0
	1	5	11.43	11.34	11.42		0
	3	0	11.19	11.17	11.04		0
	3	2	11.27	11.13	11.16		0
	3	3	11.10	11.20	11.17		0
	6	0	11.16	11.07	11.14	0-2	0
64QAM	1	0	11.38	11.42	11.09	0-2	0
	1	2	11.38	11.43	11.37		0
	1	5	11.39	11.43	11.08		0
	3	0	11.14	11.17	11.06		0
	3	2	11.21	11.16	11.18		0
	3	3	11.09	11.18	11.16		0
	6	0	11.19	11.08	11.15	0-3	0

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8.3.8 LTE Band 66

Table 8-125
LTE Band 66 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.00	14.35	14.03	0	0
	1	50	14.12	14.13	14.00		0
	1	99	**14.36**	14.09	14.15		0
	50	0	14.29	14.10	13.84	0-1	0
	50	25	14.28	14.09	13.83		0
	50	50	**14.35**	14.17	13.85		0
	100	0	14.24	14.08	13.90		0
16QAM	1	0	14.05	14.35	13.93	0-1	0
	1	50	14.14	14.23	13.88		0
	1	99	14.31	14.21	13.89		0
	50	0	14.02	13.91	13.89	0-2	0
	50	25	14.00	13.93	13.85		0
	50	50	14.08	13.97	13.87		0
	100	0	13.98	13.91	13.81		0
64QAM	1	0	14.35	14.33	14.04	0-2	0
	1	50	14.40	14.17	14.00		0
	1	99	14.50	14.04	14.08		0
	50	0	14.03	13.90	13.91	0-3	0
	50	25	13.97	13.91	13.86		0
	50	50	14.05	13.92	13.87		0
	100	0	13.94	13.88	13.81		0

Table 8-126
LTE Band 66 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.03	14.38	13.81	0	0
	1	36	14.04	14.14	13.87		0
	1	74	14.02	14.03	13.75		0
	36	0	14.02	14.20	13.84	0-1	0
	36	18	14.11	14.07	13.96		0
	36	37	14.14	14.07	13.83		0
	75	0	14.08	14.04	13.92		0
16QAM	1	0	14.18	14.49	14.21	0-1	0
	1	36	14.28	14.25	14.17		0
	1	74	14.31	14.16	13.98		0
	36	0	14.00	14.22	13.89	0-2	0
	36	18	14.04	14.06	14.02		0
	36	37	14.12	13.99	13.88		0
	75	0	14.05	14.03	13.99		0
64QAM	1	0	14.21	14.34	14.10	0-2	0
	1	36	14.15	14.23	14.21		0
	1	74	14.15	14.07	13.90		0
	36	0	13.99	14.20	13.93	0-3	0
	36	18	14.07	14.07	14.05		0
	36	37	14.13	14.01	13.90		0
	75	0	14.03	14.02	13.98		0

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Table 8-127
LTE Band 66 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.11	14.24	13.78	0	0
	1	25	13.95	13.96	13.78		0
	1	49	14.12	13.99	13.75		0
	25	0	14.12	14.17	14.00	0-1	0
	25	12	14.03	14.04	13.88		0
	25	25	14.08	14.08	13.78		0
	50	0	14.04	14.04	13.87		0
16QAM	1	0	14.37	14.48	14.05	0-1	0
	1	25	14.17	14.10	13.99		0
	1	49	14.34	14.18	13.88		0
	25	0	14.06	14.13	13.97	0-2	0
	25	12	13.99	14.03	13.83		0
	25	25	14.06	14.07	13.75		0
	50	0	13.99	14.01	13.83		0
64QAM	1	0	14.22	14.43	13.90	0-2	0
	1	25	14.16	14.11	14.18		0
	1	49	14.21	14.03	13.89		0
	25	0	14.09	14.11	13.99	0-3	0
	25	12	13.96	14.05	13.85		0
	25	25	14.05	14.07	13.78		0
	50	0	13.98	14.03	13.84		0

Table 8-128
LTE Band 66 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.24	14.06	13.75	0	0
	1	12	14.12	13.94	13.86		0
	1	24	14.09	14.01	13.78		0
	12	0	14.13	14.01	13.85	0-1	0
	12	6	14.12	14.00	13.75		0
	12	13	14.04	13.97	13.75		0
	25	0	14.14	14.00	13.76		0
16QAM	1	0	14.50	14.19	14.04	0-1	0
	1	12	14.26	14.11	13.94		0
	1	24	14.38	14.13	14.04		0
	12	0	14.15	14.01	13.91	0-2	0
	12	6	14.16	14.02	13.75		0
	12	13	14.04	13.99	13.77		0
	25	0	14.10	13.97	13.80		0
64QAM	1	0	14.31	14.17	13.95	0-2	0
	1	12	14.11	14.07	14.13		0
	1	24	14.13	14.00	13.91		0
	12	0	14.15	14.02	13.89	0-3	0
	12	6	14.06	14.02	13.75		0
	12	13	14.00	13.93	13.79		0
	25	0	14.04	13.94	13.75		0

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Table 8-129
LTE Band 66 Conducted Powers Ant 2a - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.06	13.91	13.80	0	0
	1	7	14.08	13.96	13.87		0
	1	14	13.97	13.88	13.87		0
	8	0	14.08	13.99	13.75	0-1	0
	8	4	14.05	14.00	13.75		0
	8	7	14.04	13.98	13.82		0
	15	0	14.06	14.03	13.75		0
16QAM	1	0	14.20	14.09	13.81	0-1	0
	1	7	14.25	14.07	13.76		0
	1	14	14.11	14.01	13.76		0
	8	0	14.06	14.02	13.78	0-2	0
	8	4	14.08	13.97	13.75		0
	8	7	14.09	13.98	13.82		0
	15	0	14.08	13.98	13.75		0
64QAM	1	0	14.24	14.08	13.84	0-2	0
	1	7	14.12	14.02	13.84		0
	1	14	14.09	14.06	13.77		0
	8	0	14.10	14.01	13.76	0-3	0
	8	4	14.06	13.98	13.78		0
	8	7	14.09	13.96	13.84		0
	15	0	14.06	13.97	13.75		0

Table 8-130
LTE Band 66 Conducted Powers Ant 2a - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.16	14.07	13.76	0	0
	1	2	14.04	14.04	13.75		0
	1	5	14.05	14.08	13.75		0
	3	0	14.20	13.99	13.80		0
	3	2	14.12	13.98	13.80		0
	3	3	14.09	13.99	13.81		0
	6	0	14.11	14.00	13.81	0-1	0
16QAM	1	0	14.21	14.07	13.87	0-1	0
	1	2	14.32	14.02	14.06		0
	1	5	14.26	14.00	14.09		0
	3	0	14.27	14.06	13.96		0
	3	2	14.18	14.08	13.82		0
	3	3	14.16	14.04	13.84		0
	6	0	14.15	14.00	13.82	0-2	0
64QAM	1	0	14.31	13.86	14.00	0-2	0
	1	2	14.29	14.03	13.91		0
	1	5	14.28	14.12	13.94		0
	3	0	14.22	14.02	13.76		0
	3	2	14.04	14.02	13.77		0
	3	3	14.20	14.00	13.84		0
	6	0	14.08	14.02	13.75	0-3	0

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Table 8-131
LTE Band 66 Conducted Powers Ant 2a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.11	**11.50**	11.36	0	0
	1	50	11.17	11.28	11.17		0
	1	99	11.35	11.31	11.22		0
	50	0	11.26	11.29	11.22	0-1	0
	50	25	11.31	11.22	11.18		0
	50	50	**11.42**	11.27	11.15		0
	100	0	11.32	11.19	11.18		0
16QAM	1	0	11.31	11.33	11.04	0-1	0
	1	50	11.45	11.12	10.91		0
	1	99	11.50	11.20	11.11		0
	50	0	11.08	11.15	11.00	0-2	0
	50	25	11.12	11.08	10.91		0
	50	50	11.19	11.08	10.86		0
	100	0	11.12	11.05	10.89		0
64QAM	1	0	11.06	11.42	11.20	0-2	0
	1	50	11.20	11.29	10.88		0
	1	99	11.47	11.38	11.12		0
	50	0	11.15	11.16	10.98	0-3	0
	50	25	11.08	11.05	10.90		0
	50	50	11.15	11.02	10.85		0
	100	0	11.12	11.00	10.87		0

Table 8-132
LTE Band 66 Conducted Powers Ant 2a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.09	11.09	10.95	0	0
	1	36	11.26	11.05	10.84		0
	1	74	11.34	11.03	10.97		0
	36	0	11.23	11.27	11.07	0-1	0
	36	18	11.30	11.21	10.99		0
	36	37	11.31	11.19	11.03		0
	75	0	11.26	11.18	10.95		0
16QAM	1	0	11.39	11.44	11.37	0-1	0
	1	36	11.64	11.35	11.20		0
	1	74	11.61	11.34	11.06		0
	36	0	11.26	11.31	11.11	0-2	0
	36	18	11.34	11.25	11.01		0
	36	37	11.36	11.18	11.06		0
	75	0	11.29	11.19	10.98		0
64QAM	1	0	11.37	11.45	11.49	0-2	0
	1	36	11.52	11.32	10.84		0
	1	74	11.70	11.46	11.30		0
	36	0	11.25	11.29	11.11	0-3	0
	36	18	11.30	11.22	11.00		0
	36	37	11.35	11.22	11.06		0
	75	0	11.29	11.20	10.97		0

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Table 8-133
LTE Band 66 Conducted Powers Ant 2a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.23	11.22	11.01	0	0
	1	25	11.23	11.07	10.99		0
	1	49	11.33	11.04	11.13		0
	25	0	11.22	11.31	10.99	0-1	0
	25	12	11.21	11.20	11.07		0
	25	25	11.26	11.21	11.12		0
	50	0	11.23	11.20	11.09		0
16QAM	1	0	11.25	11.65	11.28	0-1	0
	1	25	11.27	11.53	11.26		0
	1	49	11.44	11.45	11.38		0
	25	0	11.24	11.34	10.96	0-2	0
	25	12	11.27	11.22	11.06		0
	25	25	11.30	11.25	11.13		0
	50	0	11.24	11.24	11.13		0
64QAM	1	0	11.26	11.36	11.45	0-2	0
	1	25	11.33	11.27	11.31		0
	1	49	11.53	11.22	11.52		0
	25	0	11.25	11.34	10.99	0-3	0
	25	12	11.25	11.24	11.06		0
	25	25	11.31	11.23	11.09		0
	50	0	11.26	11.23	11.09		0

Table 8-134
LTE Band 66 Conducted Powers Ant 2a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.10	11.07	10.93	0	0
	1	12	11.05	10.93	10.98		0
	1	24	11.06	11.00	11.00		0
	12	0	11.05	11.10	10.98	0-1	0
	12	6	11.07	11.08	11.09		0
	12	13	11.07	11.06	11.07		0
	25	0	11.09	11.10	11.10		0
16QAM	1	0	11.15	11.42	11.18	0-1	0
	1	12	11.26	11.25	11.29		0
	1	24	11.25	11.32	11.31		0
	12	0	11.12	11.04	11.02	0-2	0
	12	6	11.11	11.13	11.13		0
	12	13	11.13	11.15	11.15		0
	25	0	11.14	11.14	11.14		0
64QAM	1	0	11.18	11.41	10.87	0-2	0
	1	12	11.24	11.46	11.02		0
	1	24	11.24	11.44	11.26		0
	12	0	11.13	11.08	10.96	0-3	0
	12	6	11.05	11.10	11.01		0
	12	13	11.07	11.12	11.04		0
	25	0	11.07	11.09	11.06		0

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Table 8-135
LTE Band 66 Conducted Powers Ant 2a - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.05	11.05	10.87	0	0
	1	7	11.00	10.91	10.92		0
	1	14	11.01	10.98	10.94		0
	8	0	11.00	11.08	10.92	0-1	0
	8	4	11.02	11.06	11.03		0
	8	7	11.02	11.04	11.01		0
	15	0	11.04	11.08	11.04		0
16QAM	1	0	11.10	11.40	11.12	0-1	0
	1	7	11.21	11.23	11.23		0
	1	14	11.19	11.28	11.25		0
	8	0	11.06	11.00	10.96	0-2	0
	8	4	11.05	11.09	11.07		0
	8	7	11.07	11.11	11.10		0
	15	0	11.08	11.10	11.09		0
64QAM	1	0	11.12	11.37	10.82	0-2	0
	1	7	11.18	11.42	10.97		0
	1	14	11.18	11.43	11.21		0
	8	0	11.07	11.07	10.91	0-3	0
	8	4	11.01	11.09	10.96		0
	8	7	11.03	11.11	10.99		0
	15	0	11.03	11.08	11.01		0

Table 8-136
LTE Band 66 Conducted Powers Ant 2a - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.22	11.19	10.96	0	0
	1	2	11.22	11.04	10.94		0
	1	5	11.32	11.01	11.08		0
	3	0	11.21	11.28	10.94		0
	3	2	11.20	11.17	11.02		0
	3	3	11.25	11.18	11.07		0
	6	0	11.22	11.17	11.04	0-1	0
16QAM	1	0	11.24	11.60	11.23	0-1	0
	1	2	11.26	11.48	11.21		0
	1	5	11.41	11.40	11.32		0
	3	0	11.21	11.29	10.90		0
	3	2	11.24	11.17	11.00		0
	3	3	11.27	11.20	11.07		0
	6	0	11.21	11.19	11.07	0-2	0
64QAM	1	0	11.23	11.31	11.39	0-2	0
	1	2	11.31	11.22	11.35		0
	1	5	11.51	11.16	11.46		0
	3	0	11.23	11.28	10.93		0
	3	2	11.23	11.18	11.00		0
	3	3	11.29	11.17	11.03		0
	6	0	11.24	11.17	11.03	0-3	0

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Table 8-137
LTE Band 66 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.16	14.18	14.16	0	0
	1	50	14.20	13.90	13.93		0
	1	99	**14.44**	13.90	13.90		0
	50	0	**14.20**	14.19	13.93	0-1	0
	50	25	14.19	14.05	13.91		0
	50	50	14.15	14.01	13.92		0
	100	0	14.17	14.00	13.90		0
16QAM	1	0	14.24	14.49	14.33	0-1	0
	1	50	14.21	14.25	14.25		0
	1	99	14.47	14.25	14.14		0
	50	0	14.19	14.26	14.00	0-2	0
	50	25	14.17	14.14	13.94		0
	50	50	14.12	14.07	13.95		0
	100	0	14.15	14.05	13.91		0
64QAM	1	0	14.36	14.55	14.28	0-2	0
	1	50	14.53	14.33	14.40		0
	1	99	14.60	14.38	14.09		0
	50	0	14.30	14.14	13.96	0-3	0
	50	25	14.28	14.01	13.90		0
	50	50	14.23	14.04	13.96		0
	100	0	14.24	14.00	13.90		0

Table 8-138
LTE Band 66 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.16	14.41	13.92	0	0
	1	36	14.18	14.30	13.90		0
	1	74	14.15	14.14	13.90		0
	36	0	14.10	14.26	14.00	0-1	0
	36	18	14.27	14.20	13.99		0
	36	37	14.27	14.17	13.90		0
	75	0	14.24	14.18	13.95		0
16QAM	1	0	14.36	14.58	14.33	0-1	0
	1	36	14.46	14.43	14.13		0
	1	74	14.50	14.44	13.99		0
	36	0	14.12	14.31	14.05	0-2	0
	36	18	14.28	14.25	14.01		0
	36	37	14.31	14.21	13.91		0
	75	0	14.27	14.18	13.97		0
64QAM	1	0	14.56	14.27	14.19	0-2	0
	1	36	14.47	14.29	14.16		0
	1	74	14.36	14.41	13.95		0
	36	0	14.11	14.29	14.06	0-3	0
	36	18	14.30	14.27	14.06		0
	36	37	14.32	14.22	13.94		0
	75	0	14.25	14.19	13.99		0

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Table 8-139
LTE Band 66 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.18	14.29	13.90	0	0
	1	25	14.05	14.06	13.96		0
	1	49	14.18	14.06	13.92		0
	25	0	14.14	14.25	14.04	0-1	0
	25	12	14.12	14.15	13.93		0
	25	25	14.20	14.15	13.91		0
	50	0	14.14	14.15	13.94		0
16QAM	1	0	14.48	14.50	14.20	0-1	0
	1	25	14.31	14.26	14.10		0
	1	49	14.53	14.33	14.10		0
	25	0	14.17	14.27	13.98	0-2	0
	25	12	14.14	14.17	13.96		0
	25	25	14.24	14.17	13.92		0
	50	0	14.12	14.17	13.94		0
64QAM	1	0	14.51	14.55	14.10	0-2	0
	1	25	14.31	14.31	13.94		0
	1	49	14.52	14.40	13.96		0
	25	0	14.17	14.26	13.99	0-3	0
	25	12	14.14	14.22	13.99		0
	25	25	14.22	14.18	13.91		0
	50	0	14.15	14.21	13.97		0

Table 8-140
LTE Band 66 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.17	14.20	13.95	0	0
	1	12	14.06	14.10	13.90		0
	1	24	13.92	14.12	13.92		0
	12	0	14.24	14.11	13.93	0-1	0
	12	6	14.15	14.08	13.97		0
	12	13	14.06	14.06	13.91		0
	25	0	14.17	14.12	13.90		0
16QAM	1	0	14.44	14.39	14.14	0-1	0
	1	12	14.36	14.53	14.02		0
	1	24	14.25	14.42	13.97		0
	12	0	14.32	14.22	14.02	0-2	0
	12	6	14.17	14.13	13.92		0
	12	13	14.11	14.17	14.00		0
	25	0	14.17	14.16	13.90		0
64QAM	1	0	14.50	14.38	14.00	0-2	0
	1	12	14.21	14.31	13.93		0
	1	24	14.30	14.29	13.95		0
	12	0	14.26	14.18	13.92	0-3	0
	12	6	14.15	14.14	13.93		0
	12	13	14.03	14.11	13.95		0
	25	0	14.18	14.13	13.92		0

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Table 8-141
LTE Band 66 Conducted Powers Ant 2b - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.13	14.01	13.90	0	0
	1	7	14.11	14.07	13.98		0
	1	14	14.05	13.97	13.98		0
	8	0	14.24	14.14	13.95	0-1	0
	8	4	14.16	14.10	13.97		0
	8	7	14.16	14.10	13.99		0
	15	0	14.19	14.15	13.99		0
16QAM	1	0	14.51	14.28	14.07	0-1	0
	1	7	14.40	14.29	14.04		0
	1	14	14.34	14.14	14.07		0
	8	0	14.29	14.21	13.98	0-2	0
	8	4	14.21	14.16	13.95		0
	8	7	14.24	14.19	13.93		0
	15	0	14.21	14.17	13.95		0
64QAM	1	0	14.39	14.18	13.98	0-2	0
	1	7	14.43	14.35	14.02		0
	1	14	14.32	14.26	13.99		0
	8	0	14.31	14.22	13.90	0-3	0
	8	4	14.20	14.19	13.91		0
	8	7	14.28	14.16	13.94		0
	15	0	14.23	14.17	13.91		0

Table 8-142
LTE Band 66 Conducted Powers Ant 2b - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.18	14.58	14.02	0	0
	1	2	14.17	14.07	14.00		0
	1	5	14.17	14.07	14.09		0
	3	0	14.24	14.12	13.96		0
	3	2	14.23	14.11	13.92		0
	3	3	14.26	14.13	13.99		0
	6	0	14.24	14.13	13.95	0-1	0
16QAM	1	0	14.44	14.28	14.11	0-1	0
	1	2	14.46	14.20	14.13		0
	1	5	14.52	14.33	14.21		0
	3	0	14.42	14.28	14.03		0
	3	2	14.34	14.27	14.03		0
	3	3	14.41	14.30	14.14		0
	6	0	14.32	14.25	14.11	0-2	0
64QAM	1	0	14.50	14.40	14.20	0-2	0
	1	2	14.49	14.34	14.03		0
	1	5	14.53	14.36	14.22		0
	3	0	14.37	14.35	14.21		0
	3	2	14.30	14.32	14.19		0
	3	3	14.24	14.22	14.23		0
	6	0	14.30	14.21	13.95	0-3	0

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Table 8-143
LTE Band 66 Conducted Powers Ant 2b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.16	11.54	11.13	0	0
	1	50	11.29	11.40	10.95		0
	1	99	**11.58**	11.52	11.06		0
	50	0	11.32	11.41	11.17	0-1	0
	50	25	11.40	11.38	11.12		0
	50	50	**11.46**	11.45	11.15		0
	100	0	11.45	11.43	11.15		0
16QAM	1	0	11.58	11.82	11.55	0-1	0
	1	50	11.78	11.52	11.40		0
	1	99	11.89	11.53	11.30		0
	50	0	11.65	11.67	11.36	0-2	0
	50	25	11.59	11.46	11.32		0
	50	50	11.59	11.52	11.29		0
	100	0	11.60	11.44	11.29		0
64QAM	1	0	11.49	11.78	11.61	0-2	0
	1	50	11.51	11.80	11.44		0
	1	99	11.75	11.57	11.30		0
	50	0	11.66	11.71	11.39	0-3	0
	50	25	11.64	11.48	11.31		0
	50	50	11.61	11.53	11.25		0
	100	0	11.60	11.41	11.28		0

Table 8-144
LTE Band 66 Conducted Powers Ant 2b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.31	11.45	11.09	0	0
	1	36	11.38	11.23	11.18		0
	1	74	11.21	11.21	10.98		0
	36	0	11.54	11.48	11.17	0-1	0
	36	18	11.47	11.38	11.24		0
	36	37	11.35	11.37	11.16		0
	75	0	11.47	11.33	11.20		0
16QAM	1	0	11.59	11.87	11.42	0-1	0
	1	36	11.60	11.81	11.50		0
	1	74	11.49	11.38	11.42		0
	36	0	11.59	11.50	11.17	0-2	0
	36	18	11.53	11.37	11.26		0
	36	37	11.40	11.39	11.18		0
	75	0	11.52	11.33	11.21		0
64QAM	1	0	11.66	11.89	11.40	0-2	0
	1	36	11.67	11.32	11.61		0
	1	74	11.56	11.50	11.33		0
	36	0	11.57	11.50	11.13	0-3	0
	36	18	11.54	11.40	11.28		0
	36	37	11.44	11.38	11.18		0
	75	0	11.53	11.34	11.19		0

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Table 8-145
LTE Band 66 Conducted Powers Ant 2b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.49	11.46	11.19	0	0
	1	25	11.58	11.23	11.08		0
	1	49	11.52	11.27	11.01		0
	25	0	11.45	11.49	11.18	0-1	0
	25	12	11.56	11.35	11.14		0
	25	25	11.51	11.38	11.08		0
	50	0	11.57	11.36	11.15		0
16QAM	1	0	11.88	11.88	11.49	0-1	0
	1	25	11.89	11.37	11.37		0
	1	49	11.86	11.55	11.29		0
	25	0	11.49	11.51	11.20	0-2	0
	25	12	11.60	11.36	11.17		0
	25	25	11.50	11.42	11.11		0
	50	0	11.58	11.39	11.19		0
64QAM	1	0	11.70	11.87	11.56	0-2	0
	1	25	11.89	11.42	11.45		0
	1	49	11.63	11.79	11.36		0
	25	0	11.46	11.53	11.23	0-3	0
	25	12	11.54	11.38	11.16		0
	25	25	11.56	11.41	11.09		0
	50	0	11.61	11.37	11.15		0

Table 8-146
LTE Band 66 Conducted Powers Ant 2b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.38	11.27	11.04	0	0
	1	12	11.33	11.18	10.93		0
	1	24	11.47	11.23	10.95		0
	12	0	11.38	11.38	11.12	0-1	0
	12	6	11.41	11.36	11.02		0
	12	13	11.46	11.29	11.03		0
	25	0	11.40	11.36	11.05		0
16QAM	1	0	11.50	11.74	11.40	0-1	0
	1	12	11.52	11.52	11.24		0
	1	24	11.67	11.65	11.25		0
	12	0	11.44	11.41	11.12	0-2	0
	12	6	11.40	11.35	11.12		0
	12	13	11.51	11.35	11.02		0
	25	0	11.42	11.35	11.04		0
64QAM	1	0	11.50	11.87	11.38	0-2	0
	1	12	11.54	11.56	10.95		0
	1	24	11.65	11.61	11.28		0
	12	0	11.41	11.33	11.11	0-3	0
	12	6	11.40	11.31	10.99		0
	12	13	11.52	11.29	10.97		0
	25	0	11.46	11.41	11.04		0

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Table 8-147
LTE Band 66 Conducted Powers Ant 2b - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.33	11.22	10.99	0	0
	1	7	11.28	11.13	10.91		0
	1	14	11.30	11.16	10.98		0
	8	0	11.44	11.31	11.05	0-1	0
	8	4	11.35	11.29	10.95		0
	8	7	11.38	11.22	10.96		0
	15	0	11.43	11.29	10.98		0
16QAM	1	0	11.37	11.67	11.33	0-1	0
	1	7	11.46	11.45	11.17		0
	1	14	11.61	11.58	11.18		0
	8	0	11.38	11.34	11.05	0-2	0
	8	4	11.34	11.28	11.09		0
	8	7	11.45	11.28	10.99		0
	15	0	11.36	11.28	11.01		0
64QAM	1	0	11.44	11.80	11.35	0-2	0
	1	7	11.48	11.49	10.92		0
	1	14	11.59	11.54	11.25		0
	8	0	11.35	11.26	11.08	0-3	0
	8	4	11.34	11.24	10.96		0
	8	7	11.46	11.22	10.94		0
	15	0	11.40	11.34	11.01		0

Table 8-148
LTE Band 66 Conducted Powers Ant 2b - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.46	11.41	11.14	0	0
	1	2	11.55	11.18	11.03		0
	1	5	11.49	11.22	10.96		0
	3	0	11.42	11.44	11.13		0
	3	2	11.53	11.30	11.09		0
	3	3	11.43	11.33	11.03		0
	6	0	11.49	11.31	11.10	0-1	0
16QAM	1	0	11.80	11.87	11.43	0-1	0
	1	2	11.88	11.32	11.31		0
	1	5	11.78	11.50	11.23		0
	3	0	11.41	11.46	11.14		0
	3	2	11.52	11.31	11.11		0
	3	3	11.42	11.38	11.05		0
	6	0	11.50	11.35	11.13	0-2	0
64QAM	1	0	11.69	11.83	11.50	0-2	0
	1	2	11.87	11.38	11.39		0
	1	5	11.62	11.75	11.29		0
	3	0	11.45	11.49	11.16		0
	3	2	11.53	11.34	11.09		0
	3	3	11.55	11.37	11.02		0
	6	0	11.60	11.33	11.08	0-3	0

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Table 8-149
LTE Band 66 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.07	**14.20**	14.11	0	0
	1	50	14.09	14.01	13.92		0
	1	99	13.94	13.98	13.87		0
	50	0	14.20	**14.23**	14.03	0-1	0
	50	25	14.22	14.09	13.90		0
	50	50	14.09	14.10	13.90		0
	100	0	14.19	14.05	13.95		0
16QAM	1	0	14.32	14.44	14.41	0-1	0
	1	50	14.49	14.34	14.18		0
	1	99	14.28	14.30	14.29		0
	50	0	14.49	14.20	14.39	0-2	0
	50	25	14.38	14.07	13.88		0
	50	50	14.26	14.04	13.95		0
	100	0	14.16	14.02	13.88		0
64QAM	1	0	14.36	14.28	14.48	0-2	0
	1	50	14.36	14.09	14.28		0
	1	99	14.39	14.29	14.28		0
	50	0	14.03	14.13	14.02	0-3	0
	50	25	14.13	14.00	13.88		0
	50	50	13.99	14.01	13.87		0
	100	0	14.08	13.97	13.84		0

Table 8-150
LTE Band 66 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.35	14.33	14.04	0	0
	1	36	14.34	14.19	13.97		0
	1	74	14.26	14.15	13.86		0
	36	0	14.23	14.31	14.03	0-1	0
	36	18	14.31	14.24	14.06		0
	36	37	14.26	14.21	14.06		0
	75	0	14.29	14.22	14.06		0
16QAM	1	0	14.13	14.35	14.19	0-1	0
	1	36	14.24	14.17	14.10		0
	1	74	14.10	14.13	13.94		0
	36	0	13.99	14.06	13.91	0-2	0
	36	18	14.04	14.01	13.97		0
	36	37	14.02	13.97	13.92		0
	75	0	14.02	13.97	13.91		0
64QAM	1	0	14.25	14.30	14.06	0-2	0
	1	36	14.30	14.36	13.98		0
	1	74	14.07	14.01	13.91		0
	36	0	13.98	14.02	13.80	0-3	0
	36	18	14.06	14.01	13.88		0
	36	37	14.05	13.96	13.86		0
	75	0	13.98	13.94	13.78		0

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Table 8-151
LTE Band 66 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.25	14.24	13.95	0	0
	1	25	14.23	14.18	14.01		0
	1	49	14.24	14.19	14.06		0
	25	0	14.25	14.24	14.12	0-1	0
	25	12	14.24	14.26	14.11		0
	25	25	14.25	14.26	14.13		0
	50	0	14.26	14.26	14.13		0
16QAM	1	0	14.25	14.24	14.01	0-1	0
	1	25	14.15	14.05	13.98		0
	1	49	14.26	14.27	13.97		0
	25	0	14.11	13.99	13.92	0-2	0
	25	12	14.06	13.90	13.87		0
	25	25	14.10	13.92	13.89		0
	50	0	14.07	13.91	13.94		0
64QAM	1	0	14.26	14.25	14.01	0-2	0
	1	25	14.25	14.26	14.07		0
	1	49	14.24	14.21	14.15		0
	25	0	14.16	14.01	13.93	0-3	0
	25	12	14.11	14.01	13.95		0
	25	25	14.14	13.99	13.99		0
	50	0	14.05	13.94	14.00		0

Table 8-152
LTE Band 66 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.22	14.21	14.03	0	0
	1	12	14.11	14.14	13.99		0
	1	24	14.10	14.20	14.00		0
	12	0	14.23	14.17	14.16	0-1	0
	12	6	14.20	14.16	14.17		0
	12	13	14.16	14.16	14.17		0
	25	0	14.21	14.17	14.18		0
16QAM	1	0	14.26	14.17	14.09	0-1	0
	1	12	14.19	14.06	14.06		0
	1	24	14.27	14.17	14.12		0
	12	0	14.11	14.03	13.83	0-2	0
	12	6	14.10	14.03	13.80		0
	12	13	14.05	14.00	13.86		0
	25	0	14.06	14.02	13.91		0
64QAM	1	0	14.17	14.26	13.94	0-2	0
	1	12	14.22	14.14	14.02		0
	1	24	13.86	14.12	14.11		0
	12	0	13.97	14.03	13.80	0-3	0
	12	6	13.97	14.03	13.85		0
	12	13	13.86	14.10	13.89		0
	25	0	14.01	14.04	13.88		0

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Table 8-153
LTE Band 66 Conducted Powers Ant 4a - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.24	13.96	13.93	0	0
	1	7	14.22	14.05	13.99		0
	1	14	14.15	14.00	13.93		0
	8	0	14.24	14.07	14.08	0-1	0
	8	4	14.24	14.07	14.06		0
	8	7	14.23	14.07	14.06		0
	15	0	14.24	14.09	14.10		0
16QAM	1	0	14.19	14.07	13.88	0-1	0
	1	7	14.24	14.11	13.97		0
	1	14	14.19	14.01	13.89		0
	8	0	14.01	13.96	13.82	0-2	0
	8	4	14.11	13.96	13.86		0
	8	7	14.08	13.96	13.87		0
	15	0	14.08	13.94	13.87		0
64QAM	1	0	14.24	14.01	14.14	0-2	0
	1	7	14.23	14.20	14.11		0
	1	14	14.24	14.14	14.11		0
	8	0	14.03	13.96	13.83	0-3	0
	8	4	14.04	13.97	13.88		0
	8	7	14.03	13.98	13.90		0
	15	0	14.07	14.04	13.91		0

Table 8-154
LTE Band 66 Conducted Powers Ant 4a - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.24	14.21	14.21	0	0
	1	2	14.23	14.19	14.20		0
	1	5	14.22	14.20	14.20		0
	3	0	14.23	14.09	14.14		0
	3	2	14.22	14.10	14.16		0
	3	3	14.23	14.09	14.13		0
	6	0	14.22	14.10	14.14	0-1	0
16QAM	1	0	14.20	14.09	14.20	0-1	0
	1	2	13.99	13.92	14.03		0
	1	5	14.13	13.92	14.05		0
	3	0	14.18	14.03	14.13		0
	3	2	14.03	13.90	13.93		0
	3	3	14.01	13.99	13.95		0
	6	0	14.01	13.94	13.97	0-2	0
64QAM	1	0	14.08	14.14	14.14	0-2	0
	1	2	14.16	14.02	14.06		0
	1	5	14.14	14.18	14.14		0
	3	0	14.18	14.25	14.09		0
	3	2	14.16	13.97	14.16		0
	3	3	14.15	13.96	14.08		0
	6	0	13.98	13.89	13.88	0-3	0

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Table 8-155
LTE Band 66 Conducted Powers Ant 4a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.12	11.29	11.28	0	0
	1	50	11.34	11.07	11.29		0
	1	99	**11.50**	11.16	11.24		0
	50	0	11.22	11.18	11.20	0-1	0
	50	25	**11.26**	11.11	11.17		0
	50	50	11.14	11.14	11.14		0
	100	0	11.12	11.13	11.16		0
16QAM	1	0	11.18	11.45	11.50	0-1	0
	1	50	11.39	11.32	11.35		0
	1	99	11.17	11.30	11.14		0
	50	0	11.02	11.28	11.08	0-2	0
	50	25	11.13	11.16	10.97		0
	50	50	10.94	11.22	11.00		0
	100	0	11.13	11.14	10.97		0
64QAM	1	0	11.04	11.49	11.30	0-2	0
	1	50	11.31	11.43	11.32		0
	1	99	11.03	11.49	11.24		0
	50	0	11.02	11.30	11.08	0-3	0
	50	25	11.14	11.19	11.01		0
	50	50	10.96	11.25	11.00		0
	100	0	11.14	11.12	10.96		0

Table 8-156
LTE Band 66 Conducted Powers Ant 4a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.04	11.07	11.05	0	0
	1	36	11.15	11.00	10.99		0
	1	74	11.09	10.93	10.77		0
	36	0	10.93	11.12	11.05	0-1	0
	36	18	11.03	11.10	11.03		0
	36	37	11.05	11.05	10.93		0
	75	0	11.03	11.04	11.01		0
16QAM	1	0	11.15	11.36	11.27	0-1	0
	1	36	11.19	11.27	11.23		0
	1	74	11.12	11.27	10.81		0
	36	0	10.92	11.15	11.08	0-2	0
	36	18	11.06	11.14	11.10		0
	36	37	11.05	11.05	11.00		0
	75	0	11.05	11.10	11.05		0
64QAM	1	0	11.22	11.20	11.30	0-2	0
	1	36	11.14	11.26	11.21		0
	1	74	11.29	11.23	10.86		0
	36	0	10.95	11.18	11.07	0-3	0
	36	18	11.05	11.10	11.06		0
	36	37	11.06	11.07	11.02		0
	75	0	11.03	11.07	11.03		0

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Table 8-157
LTE Band 66 Conducted Powers Ant 4a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.89	11.09	11.01	0	0
	1	25	10.78	10.87	10.92		0
	1	49	10.93	10.83	10.86		0
	25	0	10.95	11.12	11.03	0-1	0
	25	12	10.89	10.98	10.97		0
	25	25	10.95	10.92	10.97		0
	50	0	10.89	10.96	10.98		0
16QAM	1	0	10.94	11.35	11.06	0-1	0
	1	25	10.92	11.08	11.08		0
	1	49	11.07	10.95	11.09		0
	25	0	10.97	11.10	11.01	0-2	0
	25	12	10.87	10.96	11.02		0
	25	25	10.96	10.95	11.01		0
	50	0	10.91	11.02	11.02		0
64QAM	1	0	10.96	11.32	11.08	0-2	0
	1	25	10.84	11.04	11.13		0
	1	49	11.12	10.92	11.09		0
	25	0	10.95	11.11	11.05	0-3	0
	25	12	10.90	10.97	11.02		0
	25	25	10.93	10.94	11.01		0
	50	0	10.92	10.99	11.02		0

Table 8-158
LTE Band 66 Conducted Powers Ant 4a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.12	11.06	10.79	0	0
	1	12	11.03	10.97	10.74		0
	1	24	10.84	10.93	10.75		0
	12	0	10.99	10.88	10.88	0-1	0
	12	6	10.99	10.89	10.83		0
	12	13	10.91	10.88	10.84		0
	25	0	11.01	10.88	10.87		0
16QAM	1	0	11.26	11.21	11.11	0-1	0
	1	12	11.14	11.12	10.93		0
	1	24	11.14	10.99	10.83		0
	12	0	11.02	10.95	10.89	0-2	0
	12	6	11.01	10.97	10.89		0
	12	13	10.93	10.96	10.85		0
	25	0	11.10	10.91	10.87		0
64QAM	1	0	11.20	11.11	10.96	0-2	0
	1	12	11.14	11.09	10.96		0
	1	24	11.14	11.04	11.04		0
	12	0	11.07	10.92	10.85	0-3	0
	12	6	11.11	10.97	10.86		0
	12	13	11.09	10.93	10.86		0
	25	0	11.18	10.92	10.90		0

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Table 8-159
LTE Band 66 Conducted Powers Ant 4a - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.91	10.81	10.88	0	0
	1	7	10.87	10.89	10.90		0
	1	14	10.83	10.78	10.84		0
	8	0	10.96	10.96	10.98	0-1	0
	8	4	10.95	10.98	10.97		0
	8	7	10.97	10.96	10.99		0
	15	0	10.96	10.95	10.97		0
16QAM	1	0	11.00	10.96	10.88	0-1	0
	1	7	11.06	11.23	10.97		0
	1	14	11.00	11.04	10.98		0
	8	0	11.01	10.99	11.02	0-2	0
	8	4	11.04	11.03	10.98		0
	8	7	11.01	10.96	11.01		0
	15	0	10.98	10.94	11.01		0
64QAM	1	0	11.07	11.03	11.12	0-2	0
	1	7	11.10	11.15	11.05		0
	1	14	10.98	11.07	10.94		0
	8	0	10.98	11.01	11.05	0-3	0
	8	4	10.99	11.07	11.01		0
	8	7	10.99	11.05	11.04		0
	15	0	10.97	10.92	11.03		0

Table 8-160
LTE Band 66 Conducted Powers Ant 4a - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.07	11.00	10.70	0	0
	1	2	10.98	10.91	10.65		0
	1	5	10.79	10.87	10.66		0
	3	0	10.94	10.82	10.79		0
	3	2	10.94	10.83	10.74		0
	3	3	10.86	10.82	10.75		0
	6	0	10.96	10.82	10.78	0-1	0
16QAM	1	0	11.21	11.14	11.02	0-1	0
	1	2	11.09	11.05	10.84		0
	1	5	11.09	10.92	10.74		0
	3	0	11.01	10.88	10.82		0
	3	2	11.00	10.90	10.82		0
	3	3	10.92	10.89	10.78		0
	6	0	11.09	10.84	10.80	0-2	0
64QAM	1	0	11.19	11.04	10.89	0-2	0
	1	2	11.13	11.02	10.89		0
	1	5	11.13	10.97	10.97		0
	3	0	11.06	10.85	10.78		0
	3	2	11.10	10.90	10.79		0
	3	3	11.08	10.90	10.79		0
	6	0	11.17	10.91	10.83	0-3	0

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Table 8-161
LTE Band 66 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**14.05**	14.02	13.63	0	0
	1	50	13.74	13.72	13.52		0
	1	99	13.99	13.97	13.83		0
	50	0	**13.80**	13.79	13.50	0-1	0
	50	25	13.67	13.65	13.54		0
	50	50	13.71	13.69	13.70		0
	100	0	13.71	13.70	13.57		0
16QAM	1	0	14.01	13.56	13.50	0-1	0
	1	50	13.56	13.65	13.53		0
	1	99	13.83	13.69	13.82		0
	50	0	13.57	13.60	13.51	0-2	0
	50	25	13.55	13.65	13.58		0
	50	50	13.53	13.63	13.70		0
	100	0	13.54	13.56	13.59		0
64QAM	1	0	13.96	13.75	13.62	0-2	0
	1	50	13.65	13.80	13.53		0
	1	99	13.68	13.82	13.78		0
	50	0	13.59	13.61	13.52	0-3	0
	50	25	13.55	13.69	13.52		0
	50	50	13.50	13.67	13.63		0
	100	0	13.51	13.66	13.60		0

Table 8-162
LTE Band 66 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.92	13.86	13.62	0	0
	1	36	13.87	13.99	13.87		0
	1	74	13.58	13.97	13.86		0
	36	0	13.79	13.69	13.61	0-1	0
	36	18	13.75	13.78	13.78		0
	36	37	13.59	13.77	13.77		0
	75	0	13.73	13.78	13.75		0
16QAM	1	0	14.03	13.69	13.58	0-1	0
	1	36	13.95	13.96	13.78		0
	1	74	13.65	13.74	13.89		0
	36	0	13.74	13.55	13.62	0-2	0
	36	18	13.63	13.69	13.64		0
	36	37	13.64	13.63	13.65		0
	75	0	13.60	13.64	13.62		0
64QAM	1	0	13.93	13.55	13.54	0-2	0
	1	36	13.62	13.63	13.66		0
	1	74	13.51	13.57	13.71		0
	36	0	13.64	13.52	13.56	0-3	0
	36	18	13.62	13.52	13.59		0
	36	37	13.54	13.63	13.61		0
	75	0	13.58	13.60	13.50		0

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Table 8-163
LTE Band 66 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.00	13.84	13.78	0	0
	1	25	13.85	13.92	13.90		0
	1	49	13.75	13.90	14.00		0
	25	0	13.81	13.74	13.76	0-1	0
	25	12	13.72	13.80	13.80		0
	25	25	13.70	13.80	13.82		0
	50	0	13.75	13.81	13.81		0
16QAM	1	0	13.92	13.60	13.70	0-1	0
	1	25	13.97	13.92	13.86		0
	1	49	13.78	13.80	13.79		0
	25	0	13.82	13.51	13.71	0-2	0
	25	12	13.65	13.62	13.71		0
	25	25	13.58	13.61	13.71		0
	50	0	13.69	13.67	13.68		0
64QAM	1	0	13.86	13.53	13.68	0-2	0
	1	25	13.85	13.55	13.63		0
	1	49	13.65	13.62	13.60		0
	25	0	13.70	13.50	13.51	0-3	0
	25	12	13.57	13.54	13.52		0
	25	25	13.52	13.52	13.51		0
	50	0	13.60	13.55	13.56		0

Table 8-164
LTE Band 66 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.98	13.65	14.00	0	0
	1	12	14.01	13.69	13.99		0
	1	24	13.92	13.72	14.02		0
	12	0	13.80	13.66	13.76	0-1	0
	12	6	13.78	13.66	13.76		0
	12	13	13.75	13.67	13.74		0
	25	0	13.81	13.68	13.80		0
16QAM	1	0	13.83	13.56	13.96	0-1	0
	1	12	14.00	13.68	13.94		0
	1	24	13.74	13.68	13.98		0
	12	0	13.64	13.62	13.68	0-2	0
	12	6	13.66	13.56	13.72		0
	12	13	13.62	13.64	13.73		0
	25	0	13.64	13.66	13.71		0
64QAM	1	0	13.88	13.58	13.70	0-2	0
	1	12	13.70	13.75	13.75		0
	1	24	13.55	13.68	13.84		0
	12	0	13.72	13.53	13.57	0-3	0
	12	6	13.70	13.53	13.60		0
	12	13	13.61	13.51	13.59		0
	25	0	13.68	13.52	13.62		0

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Table 8-165
LTE Band 66 Conducted Powers Ant 4b - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.84	13.73	13.83	0	0
	1	7	13.89	13.78	13.90		0
	1	14	13.86	13.71	13.81		0
	8	0	13.76	13.65	13.76	0-1	0
	8	4	13.79	13.66	13.76		0
	8	7	13.80	13.64	13.76		0
	15	0	13.78	13.66	13.77		0
16QAM	1	0	13.94	13.73	13.81	0-1	0
	1	7	13.77	13.82	14.01		0
	1	14	13.91	13.73	13.80		0
	8	0	13.69	13.64	13.70	0-2	0
	8	4	13.75	13.70	13.76		0
	8	7	13.73	13.63	13.75		0
	15	0	13.71	13.70	13.74		0
64QAM	1	0	13.59	13.59	13.69	0-2	0
	1	7	13.83	13.82	13.65		0
	1	14	13.74	13.69	13.78		0
	8	0	13.63	13.60	13.54	0-3	0
	8	4	13.62	13.55	13.56		0
	8	7	13.61	13.60	13.57		0
	15	0	13.60	13.58	13.55		0

Table 8-166
LTE Band 66 Conducted Powers Ant 4b - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.89	13.77	13.70	0	0
	1	2	13.86	13.75	13.76		0
	1	5	13.89	13.79	13.79		0
	3	0	13.76	13.64	13.70		0
	3	2	13.78	13.63	13.71		0
	3	3	13.76	13.63	13.72		0
	6	0	13.77	13.64	13.68	0-1	0
16QAM	1	0	13.81	13.89	13.85	0-1	0
	1	2	14.01	13.78	13.77		0
	1	5	13.87	13.91	13.87		0
	3	0	13.79	13.77	13.73		0
	3	2	13.86	13.69	13.68		0
	3	3	13.80	13.75	13.68		0
	6	0	13.77	13.70	13.68	0-2	0
64QAM	1	0	13.85	13.67	13.89	0-2	0
	1	2	13.97	13.70	13.76		0
	1	5	13.83	13.73	13.80		0
	3	0	13.78	13.59	13.89		0
	3	2	13.71	13.64	13.87		0
	3	3	13.74	13.62	13.86		0
	6	0	13.70	13.60	13.66	0-3	0

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Table 8-167
LTE Band 66 Conducted Powers Ant 4b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.09	11.39	11.01	0	0
	1	50	11.11	**11.43**	11.00		0
	1	99	11.26	11.35	11.11		0
	50	0	11.19	11.26	11.06	0-1	0
	50	25	11.15	**11.32**	11.02		0
	50	50	11.11	11.31	11.16		0
	100	0	11.10	11.30	10.93		0
16QAM	1	0	11.44	11.39	11.08	0-1	0
	1	50	11.44	11.29	11.15		0
	1	99	11.35	11.14	11.33		0
	50	0	11.35	11.03	11.03	0-2	0
	50	25	11.16	11.14	11.13		0
	50	50	10.98	11.05	11.24		0
	100	0	11.09	11.09	11.09		0
64QAM	1	0	11.41	11.31	11.14	0-2	0
	1	50	11.42	11.22	11.25		0
	1	99	11.30	11.25	11.37		0
	50	0	11.37	11.03	11.07	0-3	0
	50	25	11.11	11.09	11.13		0
	50	50	11.03	11.07	11.23		0
	100	0	11.08	11.20	10.95		0

Table 8-168
LTE Band 66 Conducted Powers Ant 4b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.00	10.90	10.93	0	0
	1	36	11.08	10.97	10.99		0
	1	74	10.70	10.83	10.85		0
	36	0	11.31	11.07	10.94	0-1	0
	36	18	11.23	11.12	11.02		0
	36	37	11.02	11.02	10.96		0
	75	0	11.18	11.09	11.01		0
16QAM	1	0	11.43	11.49	11.27	0-1	0
	1	36	11.47	11.20	11.47		0
	1	74	11.29	11.25	11.28		0
	36	0	11.33	11.27	10.99	0-2	0
	36	18	11.26	11.27	11.04		0
	36	37	11.04	11.18	10.99		0
	75	0	11.16	11.22	11.03		0
64QAM	1	0	11.37	11.48	11.28	0-2	0
	1	36	11.48	11.40	11.49		0
	1	74	11.23	11.46	11.29		0
	36	0	11.21	11.09	11.16	0-3	0
	36	18	11.20	11.12	11.23		0
	36	37	11.07	11.07	11.17		0
	75	0	11.15	11.11	11.21		0

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Table 8-169
LTE Band 66 Conducted Powers Ant 4b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.11	11.14	11.06	0	0
	1	25	11.09	11.04	10.89		0
	1	49	11.06	10.91	10.91		0
	25	0	11.09	11.15	10.91	0-1	0
	25	12	11.04	11.17	10.90		0
	25	25	11.05	11.11	10.91		0
	50	0	11.04	11.17	10.92		0
16QAM	1	0	11.35	11.49	11.17	0-1	0
	1	25	11.37	11.39	11.25		0
	1	49	11.42	11.41	11.37		0
	25	0	11.14	11.20	11.14	0-2	0
	25	12	11.08	11.15	11.11		0
	25	25	11.13	11.09	11.11		0
	50	0	11.08	11.14	11.13		0
64QAM	1	0	11.27	11.47	11.48	0-2	0
	1	25	11.34	11.21	11.42		0
	1	49	11.41	11.19	11.28		0
	25	0	11.15	11.21	10.92	0-3	0
	25	12	11.08	11.20	10.90		0
	25	25	11.09	11.15	10.92		0
	50	0	11.03	11.18	10.90		0

Table 8-170
LTE Band 66 Conducted Powers Ant 4b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.14	11.02	11.05	0	0
	1	12	11.14	10.96	11.11		0
	1	24	11.13	10.99	11.12		0
	12	0	11.14	11.09	11.15	0-1	0
	12	6	11.15	11.06	11.12		0
	12	13	11.11	11.08	11.13		0
	25	0	11.19	11.10	11.17		0
16QAM	1	0	11.42	11.30	11.44	0-1	0
	1	12	11.48	11.25	11.45		0
	1	24	11.43	11.39	11.45		0
	12	0	11.20	11.21	11.18	0-2	0
	12	6	11.27	11.20	11.19		0
	12	13	11.22	11.24	11.16		0
	25	0	11.21	11.19	11.23		0
64QAM	1	0	11.30	11.44	11.26	0-2	0
	1	12	11.40	11.44	11.48		0
	1	24	11.43	11.35	11.30		0
	12	0	11.14	11.20	11.21	0-3	0
	12	6	11.20	11.13	11.19		0
	12	13	11.16	11.13	11.09		0
	25	0	11.22	11.12	11.08		0

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Table 8-171
LTE Band 66 Conducted Powers Ant 4b - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.06	11.11	11.05	0	0
	1	7	11.04	11.01	10.88		0
	1	14	11.01	10.88	10.90		0
	8	0	11.04	11.12	10.90	0-1	0
	8	4	10.99	11.14	10.89		0
	8	7	11.00	11.08	10.90		0
	15	0	10.99	11.14	10.91		0
16QAM	1	0	11.30	11.46	11.16	0-1	0
	1	7	11.32	11.44	11.24		0
	1	14	11.37	11.46	11.36		0
	8	0	11.09	11.15	11.10	0-2	0
	8	4	11.03	11.10	11.07		0
	8	7	11.11	11.04	11.07		0
	15	0	11.06	11.09	11.09		0
64QAM	1	0	11.25	11.32	11.44	0-2	0
	1	7	11.32	11.16	11.48		0
	1	14	11.39	11.14	11.24		0
	8	0	11.13	11.16	10.88	0-3	0
	8	4	11.06	11.15	10.86		0
	8	7	11.07	11.10	10.88		0
	15	0	11.01	11.13	10.86		0

Table 8-172
LTE Band 66 Conducted Powers Ant 4b - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.11	11.01	10.98	0	0
	1	2	11.11	10.95	11.04		0
	1	5	11.10	10.98	11.05		0
	3	0	11.11	11.08	11.08		0
	3	2	11.12	11.05	11.05		0
	3	3	11.08	11.07	11.06		0
	6	0	11.16	11.09	11.10	0-1	0
16QAM	1	0	11.39	11.29	11.47	0-1	0
	1	2	11.45	11.24	11.48		0
	1	5	11.40	11.38	11.38		0
	3	0	11.16	11.20	11.14		0
	3	2	11.23	11.19	11.15		0
	3	3	11.18	11.18	11.12		0
	6	0	11.17	11.13	11.19	0-2	0
64QAM	1	0	11.26	11.38	11.22	0-2	0
	1	2	11.36	11.38	11.44		0
	1	5	11.39	11.29	11.26		0
	3	0	11.10	11.14	11.17		0
	3	2	11.16	11.07	11.15		0
	3	3	11.12	11.07	11.05		0
	6	0	11.18	11.06	11.04	0-3	0

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8.3.9 LTE Band 2

Table 8-173
LTE Band 2 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.93	14.96	14.85	0	0
	1	50	15.04	**15.08**	14.93		0
	1	99	14.85	14.93	14.94		0
	50	0	15.08	**15.10**	14.84	0-1	0
	50	25	15.09	15.08	14.97		0
	50	50	15.05	15.09	15.06		0
	100	0	15.05	15.07	14.98		0
16QAM	1	0	15.04	14.95	14.88	0-1	0
	1	50	15.10	15.10	14.99		0
	1	99	15.03	15.01	14.93		0
	50	0	14.59	14.64	14.51	0-2	0
	50	25	14.67	14.67	14.48		0
	50	50	14.61	14.65	14.52		0
	100	0	14.65	14.60	14.53		0
64QAM	1	0	14.95	14.94	14.77	0-2	0
	1	50	14.98	15.10	14.86		0
	1	99	14.83	14.97	14.95		0
	50	0	14.56	14.63	14.43	0-3	0
	50	25	14.67	14.66	14.54		0
	50	50	14.53	14.67	14.53		0
	100	0	14.66	14.61	14.54		0

Table 8-174
LTE Band 2 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.72	14.87	14.72	0	0
	1	36	15.01	15.08	14.82		0
	1	74	14.79	14.98	14.67		0
	36	0	14.83	14.94	14.83	0-1	0
	36	18	15.06	15.04	14.90		0
	36	37	15.02	15.01	14.90		0
	75	0	15.05	14.98	14.89		0
16QAM	1	0	14.90	14.90	14.97	0-1	0
	1	36	15.07	15.10	15.00		0
	1	74	14.98	14.96	14.85		0
	36	0	14.67	14.78	14.67	0-2	0
	36	18	14.90	14.87	14.75		0
	36	37	14.85	14.81	14.76		0
	75	0	14.89	14.76	14.72		0
64QAM	1	0	15.07	14.66	14.83	0-2	0
	1	36	15.04	14.98	15.02		0
	1	74	14.88	15.05	14.78		0
	36	0	14.67	14.81	14.74	0-3	0
	36	18	14.89	14.88	14.78		0
	36	37	14.83	14.81	14.81		0
	75	0	14.86	14.76	14.73		0

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Table 8-175
LTE Band 2 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.80	14.85	14.86	0	0
	1	25	14.91	14.88	14.89		0
	1	49	15.07	15.01	14.89		0
	25	0	14.82	14.96	14.92	0-1	0
	25	12	14.93	14.99	14.97		0
	25	25	15.09	14.98	14.96		0
	50	0	14.95	14.94	14.99		0
16QAM	1	0	15.02	14.98	15.02	0-1	0
	1	25	14.96	14.98	15.01		0
	1	49	15.10	15.04	15.03		0
	25	0	14.65	14.84	14.79	0-2	0
	25	12	14.77	14.89	14.87		0
	25	25	14.87	14.86	14.78		0
	50	0	14.72	14.81	14.83		0
64QAM	1	0	15.10	14.81	14.97	0-2	0
	1	25	15.04	14.90	15.03		0
	1	49	15.08	14.99	15.07		0
	25	0	14.68	14.95	14.84	0-3	0
	25	12	14.74	14.93	14.81		0
	25	25	14.88	14.88	14.81		0
	50	0	14.76	14.81	14.83		0

Table 8-176
LTE Band 2 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.86	14.93	14.78	0	0
	1	12	14.91	14.88	14.75		0
	1	24	15.03	14.92	14.76		0
	12	0	14.80	14.92	14.87	0-1	0
	12	6	14.81	14.93	14.84		0
	12	13	14.84	14.90	14.80		0
	25	0	14.80	14.88	14.87		0
16QAM	1	0	15.01	15.06	14.91	0-1	0
	1	12	15.03	14.89	14.96		0
	1	24	14.99	14.96	14.97		0
	12	0	14.73	14.89	14.72	0-2	0
	12	6	14.76	14.88	14.68		0
	12	13	14.76	14.78	14.67		0
	25	0	14.69	14.81	14.76		0
64QAM	1	0	14.72	15.09	14.91	0-2	0
	1	12	14.79	15.06	14.97		0
	1	24	15.06	15.01	14.80		0
	12	0	14.74	14.85	14.76	0-3	0
	12	6	14.73	14.86	14.71		0
	12	13	14.82	14.70	14.71		0
	25	0	14.71	14.78	14.71		0

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Table 8-177
LTE Band 2 Conducted Powers Ant 2a - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.68	14.82	14.64	0	0
	1	7	14.81	14.83	14.61		0
	1	14	14.74	14.77	14.61		0
	8	0	14.78	14.88	14.77	0-1	0
	8	4	14.78	14.82	14.70		0
	8	7	14.77	14.83	14.68		0
	15	0	14.79	14.84	14.73		0
16QAM	1	0	14.91	15.04	14.85	0-1	0
	1	7	15.01	14.96	14.74		0
	1	14	14.75	14.67	14.86		0
	8	0	14.67	14.77	14.68	0-2	0
	8	4	14.71	14.65	14.63		0
	8	7	14.67	14.67	14.60		0
	15	0	14.65	14.65	14.60		0
64QAM	1	0	14.96	14.93	14.84	0-2	0
	1	7	15.03	14.76	14.86		0
	1	14	14.98	14.87	14.90		0
	8	0	14.67	14.80	14.68	0-3	0
	8	4	14.66	14.69	14.64		0
	8	7	14.68	14.69	14.55		0
	15	0	14.62	14.62	14.64		0

Table 8-178
LTE Band 2 Conducted Powers Ant 2a - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.87	15.04	15.00	0	0
	1	2	14.93	15.02	14.97		0
	1	5	14.97	14.98	15.08		0
	3	0	14.86	15.01	14.89		0
	3	2	14.93	14.97	14.91		0
	3	3	14.95	14.96	14.97		0
	6	0	14.93	14.96	14.89	0-1	0
16QAM	1	0	15.07	15.06	14.86	0-1	0
	1	2	15.06	14.90	14.82		0
	1	5	15.08	14.89	14.79		0
	3	0	14.79	14.90	14.72		0
	3	2	14.81	14.83	14.66		0
	3	3	14.88	14.81	14.75		0
	6	0	14.78	14.81	14.65	0-2	0
64QAM	1	0	15.01	15.06	14.84	0-2	0
	1	2	15.02	15.06	14.73		0
	1	5	15.05	14.88	14.83		0
	3	0	14.75	14.91	14.85		0
	3	2	14.74	14.82	14.87		0
	3	3	14.76	14.85	14.96		0
	6	0	14.73	14.78	14.60	0-3	0

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Table 8-179
LTE Band 2 Conducted Powers Ant 2a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.46	11.59	11.41	0	0
	1	50	11.54	**11.76**	11.73		0
	1	99	11.32	11.60	11.73		0
	50	0	11.70	11.63	11.47	0-1	0
	50	25	11.74	11.76	11.71		0
	50	50	11.52	**11.80**	11.68		0
	100	0	11.53	11.75	11.69		0
16QAM	1	0	11.94	11.69	11.45	0-1	0
	1	50	11.98	11.72	11.80		0
	1	99	11.80	11.70	11.67		0
	50	0	11.75	11.63	11.48	0-2	0
	50	25	11.81	11.74	11.65		0
	50	50	11.57	11.78	11.66		0
	100	0	11.78	11.73	11.69		0
64QAM	1	0	11.89	11.68	11.76	0-2	0
	1	50	11.92	11.67	11.94		0
	1	99	11.49	11.47	12.05		0
	50	0	11.73	11.61	11.49	0-3	0
	50	25	11.76	11.67	11.71		0
	50	50	11.54	11.74	11.68		0
	100	0	11.78	11.69	11.73		0

Table 8-180
LTE Band 2 Conducted Powers Ant 2a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.74	11.57	11.45	0	0
	1	36	11.69	11.66	11.68		0
	1	74	11.51	11.63	11.41		0
	36	0	11.62	11.78	11.61	0-1	0
	36	18	11.65	11.75	11.73		0
	36	37	11.61	11.74	11.69		0
	75	0	11.64	11.67	11.69		0
16QAM	1	0	11.67	11.77	11.77	0-1	0
	1	36	11.64	11.96	11.99		0
	1	74	11.37	11.82	11.82		0
	36	0	11.64	11.84	11.63	0-2	0
	36	18	11.67	11.80	11.75		0
	36	37	11.63	11.77	11.69		0
	75	0	11.65	11.69	11.69		0
64QAM	1	0	11.87	11.84	11.62	0-2	0
	1	36	11.82	11.97	11.85		0
	1	74	11.54	11.93	11.53		0
	36	0	11.65	11.83	11.62	0-3	0
	36	18	11.65	11.78	11.74		0
	36	37	11.60	11.76	11.67		0
	75	0	11.63	11.70	11.66		0

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Table 8-181
LTE Band 2 Conducted Powers Ant 2a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.84	11.76	11.54	0	0
	1	25	11.77	11.60	11.62		0
	1	49	11.74	11.71	11.60		0
	25	0	11.61	11.78	11.62	0-1	0
	25	12	11.62	11.68	11.66		0
	25	25	11.69	11.68	11.67		0
	50	0	11.64	11.64	11.64		0
16QAM	1	0	11.78	11.90	11.81	0-1	0
	1	25	11.62	11.74	11.94		0
	1	49	11.77	11.84	11.83		0
	25	0	11.65	11.74	11.62	0-2	0
	25	12	11.64	11.71	11.64		0
	25	25	11.73	11.67	11.64		0
	50	0	11.63	11.68	11.64		0
64QAM	1	0	11.93	11.89	11.68	0-2	0
	1	25	11.68	11.89	11.74		0
	1	49	11.90	11.91	11.57		0
	25	0	11.66	11.76	11.63	0-3	0
	25	12	11.64	11.74	11.61		0
	25	25	11.73	11.71	11.62		0
	50	0	11.66	11.66	11.67		0

Table 8-182
LTE Band 2 Conducted Powers Ant 2a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.68	11.67	11.73	0	0
	1	12	11.69	11.54	11.67		0
	1	24	11.69	11.62	11.58		0
	12	0	11.65	11.61	11.59	0-1	0
	12	6	11.63	11.64	11.55		0
	12	13	11.68	11.62	11.39		0
	25	0	11.65	11.63	11.56		0
16QAM	1	0	11.78	11.73	11.90	0-1	0
	1	12	11.82	11.62	11.74		0
	1	24	11.90	11.77	11.72		0
	12	0	11.71	11.69	11.62	0-2	0
	12	6	11.67	11.70	11.59		0
	12	13	11.74	11.67	11.44		0
	25	0	11.66	11.66	11.54		0
64QAM	1	0	11.70	12.06	11.90	0-2	0
	1	12	11.79	11.96	11.85		0
	1	24	11.73	11.88	11.90		0
	12	0	11.64	11.68	11.64	0-3	0
	12	6	11.62	11.70	11.60		0
	12	13	11.68	11.70	11.46		0
	25	0	11.61	11.66	11.58		0

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Table 8-183
LTE Band 2 Conducted Powers Ant 2a - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.62	11.51	11.50	0	0
	1	7	11.74	11.52	11.37		0
	1	14	11.64	11.55	11.43		0
	8	0	11.62	11.62	11.59	0-1	0
	8	4	11.61	11.58	11.47		0
	8	7	11.61	11.59	11.58		0
	15	0	11.61	11.60	11.48		0
16QAM	1	0	11.56	11.69	11.87	0-1	0
	1	7	11.77	11.75	11.73		0
	1	14	11.65	11.70	11.80		0
	8	0	11.64	11.64	11.61	0-2	0
	8	4	11.65	11.62	11.45		0
	8	7	11.66	11.64	11.58		0
	15	0	11.62	11.62	11.52		0
64QAM	1	0	11.78	11.83	11.64	0-2	0
	1	7	11.75	11.73	11.56		0
	1	14	11.72	11.90	11.68		0
	8	0	11.66	11.68	11.60	0-3	0
	8	4	11.66	11.63	11.50		0
	8	7	11.66	11.66	11.61		0
	15	0	11.62	11.61	11.53		0

Table 8-184
LTE Band 2 Conducted Powers Ant 2a - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.65	11.65	11.67	0	0
	1	2	11.66	11.52	11.61		0
	1	5	11.66	11.60	11.52		0
	3	0	11.62	11.59	11.53		0
	3	2	11.60	11.62	11.49		0
	3	3	11.65	11.60	11.33		0
	6	0	11.62	11.61	11.50	0-1	0
16QAM	1	0	11.75	11.71	11.84	0-1	0
	1	2	11.79	11.60	11.70		0
	1	5	11.87	11.73	11.68		0
	3	0	11.68	11.65	11.58		0
	3	2	11.62	11.66	11.55		0
	3	3	11.69	11.63	11.40		0
	6	0	11.61	11.62	11.50	0-2	0
64QAM	1	0	11.65	12.02	11.86	0-2	0
	1	2	11.74	11.92	11.81		0
	1	5	11.68	11.94	11.86		0
	3	0	11.59	11.64	11.60		0
	3	2	11.57	11.66	11.56		0
	3	3	11.63	11.66	11.42		0
	6	0	11.56	11.62	11.54	0-3	0

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Table 8-185
LTE Band 2 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.08	13.93	13.73	0	0
	1	50	**14.10**	13.95	13.83		0
	1	99	13.92	13.97	14.00		0
	50	0	14.07	13.90	13.85	0-1	0
	50	25	**14.09**	14.00	14.01		0
	50	50	13.90	13.92	14.07		0
	100	0	14.08	13.96	14.03		0
16QAM	1	0	13.85	14.00	13.70	0-1	0
	1	50	14.00	14.01	13.80		0
	1	99	13.79	14.09	13.99		0
	50	0	13.88	13.71	13.61	0-2	0
	50	25	13.95	13.76	13.73		0
	50	50	13.75	13.76	13.79		0
	100	0	13.93	13.77	13.77		0
64QAM	1	0	13.86	13.82	14.05	0-2	0
	1	50	13.98	13.88	14.10		0
	1	99	13.70	13.93	14.10		0
	50	0	13.61	13.55	13.50	0-3	0
	50	25	13.63	13.61	13.66		0
	50	50	13.51	13.62	13.73		0
	100	0	13.65	13.61	13.71		0

Table 8-186
LTE Band 2 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.73	13.86	13.75	0	0
	1	36	13.90	13.91	13.91		0
	1	74	13.62	13.92	13.91		0
	36	0	13.80	13.75	13.96	0-1	0
	36	18	13.94	13.82	14.00		0
	36	37	13.90	13.85	13.98		0
	75	0	13.95	13.87	13.98		0
16QAM	1	0	13.79	13.91	13.98	0-1	0
	1	36	13.82	14.02	14.08		0
	1	74	13.63	14.02	14.02		0
	36	0	13.52	13.60	13.78	0-2	0
	36	18	13.70	13.66	13.89		0
	36	37	13.63	13.69	13.80		0
	75	0	13.68	13.68	13.87		0
64QAM	1	0	13.75	13.90	13.83	0-2	0
	1	36	13.89	13.72	14.06		0
	1	74	13.62	14.01	13.99		0
	36	0	13.55	13.59	13.85	0-3	0
	36	18	13.67	13.73	13.96		0
	36	37	13.66	13.69	13.85		0
	75	0	13.65	13.73	13.85		0

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Table 8-187
LTE Band 2 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.76	13.80	13.91	0	0
	1	25	13.79	13.87	13.83		0
	1	49	13.96	13.94	14.01		0
	25	0	13.76	13.81	13.94	0-1	0
	25	12	13.85	13.86	13.97		0
	25	25	13.97	13.98	14.01		0
	50	0	13.85	13.93	13.95		0
16QAM	1	0	13.97	13.84	13.98	0-1	0
	1	25	14.03	13.86	13.92		0
	1	49	14.06	13.78	14.03		0
	25	0	13.54	13.58	13.79	0-2	0
	25	12	13.66	13.59	13.74		0
	25	25	13.72	13.66	13.82		0
	50	0	13.71	13.69	13.76		0
64QAM	1	0	13.77	13.55	13.93	0-2	0
	1	25	13.91	13.57	13.87		0
	1	49	14.06	13.69	13.99		0
	25	0	13.55	13.58	13.81	0-3	0
	25	12	13.68	13.58	13.82		0
	25	25	13.69	13.66	13.86		0
	50	0	13.64	13.65	13.81		0

Table 8-188
LTE Band 2 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.72	13.78	13.81	0	0
	1	12	13.77	13.88	13.83		0
	1	24	13.87	13.94	13.96		0
	12	0	13.69	13.80	13.92	0-1	0
	12	6	13.67	13.79	13.95		0
	12	13	13.74	13.88	14.00		0
	25	0	13.69	13.87	13.97		0
16QAM	1	0	13.65	13.74	13.96	0-1	0
	1	12	13.68	13.98	13.91		0
	1	24	14.01	13.96	14.05		0
	12	0	13.51	13.64	13.74	0-2	0
	12	6	13.48	13.65	13.77		0
	12	13	13.59	13.73	13.80		0
	25	0	13.46	13.69	13.76		0
64QAM	1	0	13.41	13.77	13.94	0-2	0
	1	12	13.75	13.87	13.86		0
	1	24	13.85	13.95	14.04		0
	12	0	13.49	13.68	13.71	0-3	0
	12	6	13.47	13.62	13.79		0
	12	13	13.52	13.71	13.79		0
	25	0	13.46	13.69	13.69		0

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Table 8-189
LTE Band 2 Conducted Powers Ant 2b - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.51	13.60	13.81	0	0
	1	7	13.62	13.74	13.85		0
	1	14	13.58	13.70	13.85		0
	8	0	13.59	13.68	13.89	0-1	0
	8	4	13.58	13.73	13.93		0
	8	7	13.59	13.73	13.92		0
	15	0	13.61	13.74	13.96		0
16QAM	1	0	13.53	13.64	13.77	0-1	0
	1	7	13.81	13.62	13.94		0
	1	14	13.69	13.67	13.87		0
	8	0	13.50	13.48	13.71	0-2	0
	8	4	13.49	13.52	13.68		0
	8	7	13.47	13.59	13.74		0
	15	0	13.50	13.54	13.74		0
64QAM	1	0	13.58	13.52	13.96	0-2	0
	1	7	13.66	13.81	13.80		0
	1	14	13.59	13.64	13.91		0
	8	0	13.45	13.54	13.73	0-3	0
	8	4	13.43	13.53	13.73		0
	8	7	13.47	13.54	13.70		0
	15	0	13.44	13.53	13.76		0

Table 8-190
LTE Band 2 Conducted Powers Ant 2b - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.68	13.67	14.00	0	0
	1	2	13.74	13.63	13.97		0
	1	5	13.76	13.77	14.10		0
	3	0	13.61	13.66	13.88		0
	3	2	13.69	13.72	13.90		0
	3	3	13.68	13.74	13.97		0
	6	0	13.68	13.73	13.88	0-1	0
16QAM	1	0	13.59	13.71	14.04	0-1	0
	1	2	13.62	13.76	14.05		0
	1	5	13.73	13.87	14.00		0
	3	0	13.56	13.53	13.80		0
	3	2	13.60	13.75	13.79		0
	3	3	13.67	13.76	13.85		0
	6	0	13.53	13.72	13.71	0-2	0
64QAM	1	0	13.79	13.68	13.92	0-2	0
	1	2	13.70	13.79	13.93		0
	1	5	13.75	13.90	14.06		0
	3	0	13.56	13.83	13.80		0
	3	2	13.65	13.96	13.76		0
	3	3	13.63	13.95	13.88		0
	6	0	13.56	13.67	13.69	0-3	0

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Table 8-191
LTE Band 2 Conducted Powers Ant 2b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.87	10.84	10.72	0	0
	1	50	10.89	10.83	11.06		0
	1	99	10.70	10.76	**11.07**		0
	50	0	10.82	10.83	10.95	0-1	0
	50	25	10.91	10.86	**11.10**		0
	50	50	10.73	10.90	11.07		0
	100	0	10.93	10.88	11.06		0
16QAM	1	0	10.66	10.93	10.84	0-1	0
	1	50	10.84	11.00	11.10		0
	1	99	10.61	10.94	11.09		0
	50	0	10.62	10.63	10.73	0-2	0
	50	25	10.73	10.67	10.89		0
	50	50	10.56	10.69	10.82		0
	100	0	10.76	10.67	10.87		0
64QAM	1	0	10.69	10.68	10.91	0-2	0
	1	50	10.75	10.72	11.10		0
	1	99	10.63	10.71	11.09		0
	50	0	10.59	10.61	10.71	0-3	0
	50	25	10.72	10.65	10.88		0
	50	50	10.55	10.67	10.81		0
	100	0	10.76	10.66	10.94		0

Table 8-192
LTE Band 2 Conducted Powers Ant 2b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.69	10.70	10.94	0	0
	1	36	10.88	10.80	11.08		0
	1	74	10.65	10.87	11.07		0
	36	0	10.88	10.81	11.01	0-1	0
	36	18	11.08	10.93	11.09		0
	36	37	11.03	10.94	11.05		0
	75	0	11.07	10.93	11.02		0
16QAM	1	0	10.81	10.75	11.03	0-1	0
	1	36	10.89	10.98	11.09		0
	1	74	10.67	10.78	11.08		0
	36	0	10.58	10.56	10.68	0-2	0
	36	18	10.75	10.66	10.75		0
	36	37	10.78	10.68	10.68		0
	75	0	10.79	10.63	10.73		0
64QAM	1	0	10.75	11.00	11.09	0-2	0
	1	36	11.03	10.70	11.05		0
	1	74	10.69	10.95	11.10		0
	36	0	10.60	10.54	10.67	0-3	0
	36	18	10.82	10.61	10.71		0
	36	37	10.75	10.67	10.68		0
	75	0	10.79	10.63	10.71		0

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Table 8-193
LTE Band 2 Conducted Powers Ant 2b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.81	10.48	10.84	0	0
	1	25	10.85	10.46	10.83		0
	1	49	10.89	10.51	11.06		0
	25	0	10.72	10.52	10.87	0-1	0
	25	12	10.81	10.52	10.89		0
	25	25	10.89	10.60	11.00		0
	50	0	10.81	10.60	10.90		0
16QAM	1	0	11.05	11.09	11.07	0-1	0
	1	25	11.04	11.05	11.05		0
	1	49	11.09	11.09	11.05		0
	25	0	10.76	10.52	10.88	0-2	0
	25	12	10.81	10.54	10.94		0
	25	25	10.93	10.65	11.03		0
	50	0	10.82	10.58	10.88		0
64QAM	1	0	11.04	11.08	11.01	0-2	0
	1	25	11.09	10.99	11.03		0
	1	49	11.06	11.08	11.07		0
	25	0	10.74	10.52	10.89	0-3	0
	25	12	10.82	10.56	10.90		0
	25	25	10.92	10.63	11.01		0
	50	0	10.83	10.63	10.88		0

Table 8-194
LTE Band 2 Conducted Powers Ant 2b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.74	10.60	11.03	0	0
	1	12	10.74	10.59	11.01		0
	1	24	10.81	10.66	11.03		0
	12	0	10.79	10.65	11.04	0-1	0
	12	6	10.74	10.71	11.02		0
	12	13	10.74	10.75	11.01		0
	25	0	10.75	10.76	11.10		0
16QAM	1	0	10.78	10.77	10.86	0-1	0
	1	12	10.82	10.83	10.85		0
	1	24	10.84	10.80	11.09		0
	12	0	10.58	10.60	10.80	0-2	0
	12	6	10.55	10.53	10.82		0
	12	13	10.55	10.60	10.79		0
	25	0	10.51	10.58	10.87		0
64QAM	1	0	10.88	10.80	11.08	0-2	0
	1	12	10.90	10.79	10.92		0
	1	24	10.76	10.75	11.08		0
	12	0	10.63	10.54	10.84	0-3	0
	12	6	10.59	10.53	10.94		0
	12	13	10.54	10.63	10.85		0
	25	0	10.55	10.59	10.92		0

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Table 8-195
LTE Band 2 Conducted Powers Ant 2b - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.69	10.55	10.98	0	0
	1	7	10.69	10.54	10.96		0
	1	14	10.76	10.61	10.98		0
	8	0	10.74	10.60	10.99	0-1	0
	8	4	10.69	10.66	10.97		0
	8	7	10.69	10.70	10.96		0
	15	0	10.70	10.71	11.06		0
16QAM	1	0	10.71	10.73	10.84	0-1	0
	1	7	10.75	10.79	10.83		0
	1	14	10.77	10.76	11.07		0
	8	0	10.51	10.56	10.78	0-2	0
	8	4	10.48	10.49	10.80		0
	8	7	10.48	10.56	10.77		0
	15	0	10.44	10.54	10.85		0
64QAM	1	0	10.81	10.76	11.06	0-2	0
	1	7	10.83	10.75	10.90		0
	1	14	10.69	10.71	11.06		0
	8	0	10.56	10.50	10.82	0-3	0
	8	4	10.55	10.49	10.90		0
	8	7	10.50	10.59	10.81		0
	15	0	10.51	10.55	10.88		0

Table 8-196
LTE Band 2 Conducted Powers Ant 2b - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.66	10.54	10.93	0	0
	1	2	10.66	10.53	10.91		0
	1	5	10.73	10.60	10.93		0
	3	0	10.71	10.59	10.94		0
	3	2	10.66	10.65	10.92		0
	3	3	10.66	10.69	10.91		0
	6	0	10.67	10.70	11.01	0-1	0
16QAM	1	0	10.68	10.72	10.79	0-1	0
	1	2	10.72	10.78	10.93		0
	1	5	10.53	10.75	10.92		0
	3	0	10.46	10.52	11.02		0
	3	2	10.53	10.45	10.80		0
	3	3	10.51	10.52	10.79		0
	6	0	10.76	10.50	11.03	0-2	0
64QAM	1	0	10.97	10.72	10.74	0-2	0
	1	2	10.95	10.71	10.76		0
	1	5	10.94	10.67	10.73		0
	3	0	11.04	10.46	10.81		0
	3	2	10.82	10.45	11.08		0
	3	3	10.81	10.55	10.86		0
	6	0	11.05	10.51	11.02	0-3	0

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Table 8-197
LTE Band 2 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.63	14.55	14.61	0	0
	1	50	14.61	14.47	14.88		0
	1	99	14.60	14.55	**14.89**		0
	50	0	14.77	14.54	14.79	0-1	0
	50	25	14.74	14.51	14.82		0
	50	50	14.70	14.45	**14.85**		0
	100	0	14.71	14.47	14.74		0
16QAM	1	0	14.69	14.47	14.44	0-1	0
	1	50	14.57	14.37	14.69		0
	1	99	14.56	14.42	14.79		0
	50	0	14.52	14.31	14.51	0-2	0
	50	25	14.47	14.21	14.58		0
	50	50	14.42	14.20	14.60		0
	100	0	14.43	14.18	14.60		0
64QAM	1	0	14.86	14.60	14.79	0-2	0
	1	50	14.64	14.53	14.90		0
	1	99	14.79	14.69	14.88		0
	50	0	14.20	14.12	14.47	0-3	0
	50	25	14.26	14.06	14.51		0
	50	50	14.27	14.06	14.38		0
	100	0	14.25	14.09	14.48		0

Table 8-198
LTE Band 2 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.37	14.63	14.79	0	0
	1	36	14.26	14.70	14.87		0
	1	74	14.28	14.61	14.71		0
	36	0	14.26	14.59	14.83	0-1	0
	36	18	14.34	14.59	14.80		0
	36	37	14.34	14.51	14.73		0
	75	0	14.32	14.49	14.74		0
16QAM	1	0	14.45	14.58	14.63	0-1	0
	1	36	14.31	14.77	14.86		0
	1	74	14.18	14.48	14.68		0
	36	0	14.07	14.47	14.71	0-2	0
	36	18	14.14	14.53	14.76		0
	36	37	14.16	14.39	14.64		0
	75	0	14.11	14.36	14.65		0
64QAM	1	0	14.20	14.33	14.60	0-2	0
	1	36	14.22	14.36	14.54		0
	1	74	14.14	14.16	14.65		0
	36	0	14.04	14.11	14.42	0-3	0
	36	18	14.08	14.18	14.37		0
	36	37	14.05	14.08	14.31		0
	75	0	14.03	14.05	14.29		0

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Table 8-199
LTE Band 2 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.58	14.61	14.78	0	0
	1	25	14.31	14.53	14.55		0
	1	49	14.36	14.56	14.77		0
	25	0	14.51	14.67	14.78	0-1	0
	25	12	14.39	14.69	14.66		0
	25	25	14.42	14.54	14.76		0
	50	0	14.39	14.57	14.69		0
16QAM	1	0	14.59	14.49	14.72	0-1	0
	1	25	14.24	14.44	14.58		0
	1	49	14.19	14.36	14.71		0
	25	0	14.17	14.38	14.59	0-2	0
	25	12	14.15	14.34	14.51		0
	25	25	14.15	14.25	14.58		0
	50	0	14.16	14.29	14.52		0
64QAM	1	0	14.27	14.05	14.76	0-2	0
	1	25	13.94	14.03	14.49		0
	1	49	14.07	14.03	14.77		0
	25	0	13.98	13.95	14.38	0-3	0
	25	12	13.91	14.04	14.25		0
	25	25	13.95	13.94	14.26		0
	50	0	13.94	13.95	14.26		0

Table 8-200
LTE Band 2 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.63	14.44	14.55	0	0
	1	12	14.44	14.37	14.59		0
	1	24	14.44	14.28	14.70		0
	12	0	14.46	14.49	14.74	0-1	0
	12	6	14.32	14.48	14.68		0
	12	13	14.27	14.35	14.76		0
	25	0	14.31	14.43	14.73		0
16QAM	1	0	14.53	14.69	14.46	0-1	0
	1	12	14.37	14.61	14.57		0
	1	24	14.24	14.41	14.70		0
	12	0	14.23	14.40	14.48	0-2	0
	12	6	14.16	14.39	14.53		0
	12	13	14.04	14.31	14.63		0
	25	0	14.13	14.34	14.50		0
64QAM	1	0	14.20	14.13	14.67	0-2	0
	1	12	14.05	14.10	14.76		0
	1	24	14.12	13.98	14.70		0
	12	0	14.05	14.11	14.47	0-3	0
	12	6	14.01	14.05	14.47		0
	12	13	14.00	13.95	14.55		0
	25	0	14.02	13.96	14.39		0

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Table 8-201
LTE Band 2 Conducted Powers Ant 4a - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.48	14.47	14.65	0	0
	1	7	14.46	14.49	14.81		0
	1	14	14.34	14.37	14.68		0
	8	0	14.51	14.60	14.75	0-1	0
	8	4	14.48	14.52	14.79		0
	8	7	14.47	14.55	14.80		0
	15	0	14.42	14.48	14.78		0
16QAM	1	0	14.44	14.27	14.67	0-1	0
	1	7	14.40	14.34	14.76		0
	1	14	14.32	14.19	14.75		0
	8	0	14.35	14.31	14.61	0-2	0
	8	4	14.24	14.29	14.65		0
	8	7	14.29	14.25	14.63		0
	15	0	14.27	14.21	14.67		0
64QAM	1	0	14.22	14.09	14.55	0-2	0
	1	7	14.01	14.05	14.68		0
	1	14	14.07	14.00	14.66		0
	8	0	14.04	14.05	14.38	0-3	0
	8	4	13.95	14.00	14.34		0
	8	7	14.04	14.00	14.42		0
	15	0	13.99	13.95	14.36		0

Table 8-202
LTE Band 2 Conducted Powers Ant 4a - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.61	14.44	14.85	0	0
	1	2	14.51	14.43	14.80		0
	1	5	14.55	14.42	14.78		0
	3	0	14.64	14.49	14.71		0
	3	2	14.58	14.46	14.72		0
	3	3	14.55	14.45	14.85		0
	6	0	14.56	14.46	14.70	0-1	0
16QAM	1	0	14.65	14.37	14.86	0-1	0
	1	2	14.51	14.44	14.85		0
	1	5	14.39	14.48	14.72		0
	3	0	14.55	14.42	14.71		0
	3	2	14.35	14.40	14.61		0
	3	3	14.38	14.47	14.64		0
	6	0	14.32	14.31	14.56	0-2	0
64QAM	1	0	14.15	14.11	14.41	0-2	0
	1	2	14.25	14.29	14.42		0
	1	5	14.06	14.14	14.48		0
	3	0	14.17	14.06	14.35		0
	3	2	14.04	14.05	14.38		0
	3	3	14.09	13.99	14.37		0
	6	0	13.99	13.93	14.31	0-3	0

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Table 8-203
LTE Band 2 Conducted Powers Ant 4a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.34	11.44	11.76	0	0
	1	50	11.28	11.35	**11.82**		0
	1	99	11.35	11.36	11.56		0
	50	0	11.15	11.36	**11.72**	0-1	0
	50	25	11.33	11.28	11.70		0
	50	50	11.38	11.26	11.55		0
	100	0	11.22	11.27	11.64		0
16QAM	1	0	11.51	11.20	11.72	0-1	0
	1	50	11.21	11.00	11.89		0
	1	99	11.10	10.95	11.85		0
	50	0	11.05	11.07	11.41	0-2	0
	50	25	11.01	11.01	11.51		0
	50	50	11.00	10.94	11.33		0
	100	0	11.02	10.95	11.45		0
64QAM	1	0	11.60	11.30	11.25	0-2	0
	1	50	11.42	11.20	11.47		0
	1	99	11.42	11.33	11.78		0
	50	0	11.05	11.08	11.31	0-3	0
	50	25	11.03	10.92	11.41		0
	50	50	11.01	10.92	11.42		0
	100	0	11.01	10.92	11.40		0

Table 8-204
LTE Band 2 Conducted Powers Ant 4a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.48	11.15	11.31	0	0
	1	36	11.38	11.20	11.52		0
	1	74	11.32	11.16	11.63		0
	36	0	11.18	11.27	11.53	0-1	0
	36	18	11.17	11.17	11.59		0
	36	37	11.06	11.07	11.47		0
	75	0	11.12	11.13	11.50		0
16QAM	1	0	11.65	11.40	11.41	0-1	0
	1	36	11.26	11.29	11.68		0
	1	74	11.24	11.18	11.64		0
	36	0	11.08	11.24	11.60	0-2	0
	36	18	11.11	11.26	11.53		0
	36	37	11.07	11.07	11.49		0
	75	0	11.12	11.14	11.52		0
64QAM	1	0	11.54	11.46	11.70	0-2	0
	1	36	11.05	11.30	11.79		0
	1	74	11.26	11.03	11.81		0
	36	0	11.09	11.28	11.58	0-3	0
	36	18	11.15	11.24	11.56		0
	36	37	11.06	11.09	11.51		0
	75	0	11.13	11.14	11.53		0

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Table 8-205
LTE Band 2 Conducted Powers Ant 4a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.39	11.32	11.65	0	0
	1	25	11.05	11.13	11.60		0
	1	49	10.99	11.07	11.71		0
	25	0	11.33	11.34	11.70	0-1	0
	25	12	11.11	11.28	11.64		0
	25	25	11.15	11.29	11.67		0
	50	0	11.13	11.22	11.63		0
16QAM	1	0	11.17	11.23	11.71	0-1	0
	1	25	11.26	11.14	11.43		0
	1	49	11.25	11.13	11.54		0
	25	0	11.02	11.08	11.39	0-2	0
	25	12	10.99	11.12	11.27		0
	25	25	11.00	10.96	11.31		0
	50	0	10.98	11.04	11.26		0
64QAM	1	0	11.30	11.35	11.70	0-2	0
	1	25	11.18	11.12	11.53		0
	1	49	11.20	11.30	11.49		0
	25	0	11.07	11.11	11.44	0-3	0
	25	12	11.03	11.10	11.29		0
	25	25	11.04	10.97	11.26		0
	50	0	11.02	11.08	11.26		0

Table 8-206
LTE Band 2 Conducted Powers Ant 4a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.43	11.15	11.44	0	0
	1	12	11.25	11.04	11.29		0
	1	24	11.17	11.02	11.38		0
	12	0	11.33	11.12	11.44	0-1	0
	12	6	11.22	11.12	11.39		0
	12	13	11.13	11.07	11.44		0
	25	0	11.19	11.14	11.42		0
16QAM	1	0	11.67	11.31	11.51	0-1	0
	1	12	11.30	11.18	11.44		0
	1	24	11.26	11.18	11.71		0
	12	0	11.28	11.13	11.39	0-2	0
	12	6	11.23	11.15	11.43		0
	12	13	11.12	11.16	11.50		0
	25	0	11.17	11.15	11.40		0
64QAM	1	0	11.50	11.54	11.64	0-2	0
	1	12	11.38	11.35	11.64		0
	1	24	11.17	11.17	11.68		0
	12	0	11.42	11.16	11.39	0-3	0
	12	6	11.27	11.19	11.39		0
	12	13	11.11	11.11	11.42		0
	25	0	11.25	11.14	11.38		0

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Table 8-207
LTE Band 2 Conducted Powers Ant 4a - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.29	11.18	11.25	0	0
	1	7	11.24	11.17	11.34		0
	1	14	11.09	11.09	11.37		0
	8	0	11.29	11.26	11.34	0-1	0
	8	4	11.23	11.18	11.43		0
	8	7	11.26	11.22	11.46		0
	15	0	11.26	11.22	11.42		0
16QAM	1	0	11.46	11.34	11.39	0-1	0
	1	7	11.53	11.24	11.55		0
	1	14	11.37	11.25	11.40		0
	8	0	11.30	11.38	11.35	0-2	0
	8	4	11.27	11.21	11.41		0
	8	7	11.32	11.22	11.46		0
	15	0	11.29	11.24	11.39		0
64QAM	1	0	11.56	11.41	11.60	0-2	0
	1	7	11.55	11.35	11.84		0
	1	14	11.37	11.33	11.80		0
	8	0	11.35	11.36	11.41	0-3	0
	8	4	11.24	11.23	11.47		0
	8	7	11.23	11.19	11.53		0
	15	0	11.24	11.11	11.48		0

Table 8-208
LTE Band 2 Conducted Powers Ant 4a - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.48	11.22	11.54	0	0
	1	2	11.37	11.17	11.47		0
	1	5	11.40	11.12	11.49		0
	3	0	11.28	11.25	11.53		0
	3	2	11.20	11.19	11.52		0
	3	3	11.23	11.16	11.55		0
	6	0	11.17	11.18	11.52	0-1	0
16QAM	1	0	11.56	11.37	11.73	0-1	0
	1	2	11.26	11.39	11.69		0
	1	5	11.39	11.41	11.71		0
	3	0	11.29	11.33	11.64		0
	3	2	11.38	11.17	11.57		0
	3	3	11.30	11.28	11.58		0
	6	0	11.24	11.24	11.58	0-2	0
64QAM	1	0	11.47	11.42	11.71	0-2	0
	1	2	11.47	11.34	11.89		0
	1	5	11.48	11.37	11.71		0
	3	0	11.28	11.39	11.60		0
	3	2	11.23	11.23	11.56		0
	3	3	11.38	11.26	11.57		0
	6	0	11.25	11.23	11.52	0-3	0

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Table 8-209
LTE Band 2 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**13.91**	13.77	13.70	0	0
	1	50	13.84	13.75	13.71		0
	1	99	13.70	13.73	13.82		0
	50	0	**13.86**	13.83	13.76	0-1	0
	50	25	13.85	13.74	13.79		0
	50	50	13.77	13.75	13.81		0
	100	0	13.83	13.75	13.76		0
16QAM	1	0	13.90	13.90	13.78	0-1	0
	1	50	13.90	13.89	13.82		0
	1	99	13.89	13.82	13.90		0
	50	0	13.89	13.70	13.70	0-2	0
	50	25	13.86	13.70	13.71		0
	50	50	13.72	13.75	13.72		0
	100	0	13.85	13.73	13.74		0
64QAM	1	0	13.90	13.87	13.75	0-2	0
	1	50	13.90	13.82	13.71		0
	1	99	13.87	13.78	13.75		0
	50	0	13.74	13.72	13.70	0-3	0
	50	25	13.72	13.75	13.70		0
	50	50	13.71	13.73	13.71		0
	100	0	13.70	13.72	13.71		0

Table 8-210
LTE Band 2 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.73	13.93	13.74	0	0
	1	36	13.86	13.95	13.73		0
	1	74	13.72	13.77	13.70		0
	36	0	13.76	13.82	13.70	0-1	0
	36	18	13.92	13.86	13.85		0
	36	37	13.77	13.78	13.81		0
	75	0	13.87	13.81	13.82		0
16QAM	1	0	14.08	14.03	13.90	0-1	0
	1	36	14.08	14.05	14.09		0
	1	74	13.76	13.84	13.78		0
	36	0	14.04	13.86	13.72	0-2	0
	36	18	14.01	13.94	13.76		0
	36	37	13.97	13.79	13.80		0
	75	0	13.90	13.87	13.74		0
64QAM	1	0	14.08	14.03	13.90	0-2	0
	1	36	14.08	14.00	13.96		0
	1	74	13.76	13.84	13.78		0
	36	0	14.04	13.86	13.72	0-3	0
	36	18	14.01	13.94	13.76		0
	36	37	13.97	13.79	13.80		0
	75	0	13.98	13.87	13.74		0

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Table 8-211
LTE Band 2 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.75	13.75	13.71	0	0
	1	25	13.81	13.83	13.80		0
	1	49	13.84	13.81	13.70		0
	25	0	13.90	13.77	13.84	0-1	0
	25	12	14.00	13.77	13.71		0
	25	25	14.09	13.76	13.72		0
	50	0	13.88	13.78	13.71		0
16QAM	1	0	13.88	13.80	13.95	0-1	0
	1	25	13.89	13.80	13.93		0
	1	49	13.89	13.88	13.99		0
	25	0	13.81	13.71	13.90	0-2	0
	25	12	13.82	13.72	13.85		0
	25	25	13.89	13.70	13.88		0
	50	0	13.85	13.73	13.79		0
64QAM	1	0	13.96	13.95	13.97	0-2	0
	1	25	13.99	13.95	13.99		0
	1	49	13.97	13.98	13.98		0
	25	0	13.96	13.91	13.77	0-3	0
	25	12	13.91	14.00	13.80		0
	25	25	13.93	13.93	13.82		0
	50	0	13.95	13.93	13.83		0

Table 8-212
LTE Band 2 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.84	13.89	13.71	0	0
	1	12	13.76	13.90	13.70		0
	1	24	13.74	13.89	13.72		0
	12	0	13.78	13.89	13.76	0-1	0
	12	6	13.71	13.90	13.72		0
	12	13	13.74	13.89	13.77		0
	25	0	13.75	13.93	13.72		0
16QAM	1	0	14.00	13.99	13.99	0-1	0
	1	12	14.00	13.90	14.00		0
	1	24	14.00	13.93	14.00		0
	12	0	13.85	13.83	13.88	0-2	0
	12	6	13.83	13.86	13.90		0
	12	13	13.92	13.81	13.87		0
	25	0	13.84	13.82	13.88		0
64QAM	1	0	14.00	13.99	14.00	0-2	0
	1	12	14.00	13.90	14.00		0
	1	24	13.99	14.09	14.01		0
	12	0	13.85	13.83	13.88	0-3	0
	12	6	13.83	13.86	13.90		0
	12	13	13.92	13.81	13.87		0
	25	0	13.84	13.82	13.88		0

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Table 8-213
LTE Band 2 Conducted Powers Ant 4b - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.75	13.86	13.75	0	0
	1	7	13.74	13.89	13.73		0
	1	14	13.84	13.84	13.70		0
	8	0	13.76	13.74	13.86	0-1	0
	8	4	13.73	13.75	13.83		0
	8	7	13.75	13.75	13.80		0
	15	0	13.75	13.76	13.84		0
16QAM	1	0	13.84	14.01	14.04	0-1	0
	1	7	14.06	14.05	13.93		0
	1	14	14.04	13.93	14.02		0
	8	0	13.91	13.84	13.81	0-2	0
	8	4	13.95	13.84	13.80		0
	8	7	13.92	13.85	13.76		0
	15	0	13.90	13.82	13.80		0
64QAM	1	0	13.84	14.01	14.04	0-2	0
	1	7	14.06	14.05	13.93		0
	1	14	14.04	13.93	14.02		0
	8	0	13.91	13.84	13.81	0-3	0
	8	4	13.95	13.84	13.80		0
	8	7	13.92	13.85	13.76		0
	15	0	13.90	13.82	13.80		0

Table 8-214
LTE Band 2 Conducted Powers Ant 4b - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.79	13.71	13.82	0	0
	1	2	13.82	13.70	13.78		0
	1	5	13.84	13.74	13.82		0
	3	0	13.81	13.75	13.84		0
	3	2	13.86	13.77	13.84		0
	3	3	13.89	13.78	13.85		0
	6	0	13.85	13.77	13.84	0-1	0
16QAM	1	0	13.94	14.05	14.05	0-1	0
	1	2	13.96	14.03	13.98		0
	1	5	14.05	14.05	13.96		0
	3	0	13.99	13.83	13.86		0
	3	2	13.94	13.87	13.90		0
	3	3	14.02	14.02	13.85		0
	6	0	13.92	13.92	13.84	0-2	0
64QAM	1	0	13.94	14.05	14.05	0-2	0
	1	2	13.96	14.05	13.98		0
	1	5	14.05	14.07	14.05		0
	3	0	13.99	13.83	13.86		0
	3	2	13.94	13.87	13.90		0
	3	3	14.02	14.02	13.85		0
	6	0	13.92	13.92	13.84	0-3	0

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Table 8-215
LTE Band 2 Conducted Powers Ant 4b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.09	11.27	11.01	0	0
	1	50	11.16	11.30	11.23		0
	1	99	11.13	11.25	**11.31**		0
	50	0	11.22	11.24	11.18	0-1	0
	50	25	11.26	11.24	11.24		0
	50	50	11.27	11.25	**11.32**		0
	100	0	11.29	11.23	11.13		0
16QAM	1	0	11.39	11.00	11.49	0-1	0
	1	50	11.29	11.18	11.56		0
	1	99	11.15	11.31	11.55		0
	50	0	11.28	11.14	11.19	0-2	0
	50	25	11.25	11.14	11.21		0
	50	50	11.20	11.28	11.24		0
	100	0	11.24	11.23	11.21		0
64QAM	1	0	11.45	10.95	11.32	0-2	0
	1	50	11.38	11.18	11.34		0
	1	99	11.06	10.90	11.21		0
	50	0	11.24	11.26	11.08	0-3	0
	50	25	11.20	11.19	11.13		0
	50	50	10.93	11.01	11.13		0
	100	0	11.16	11.15	11.07		0

Table 8-216
LTE Band 2 Conducted Powers Ant 4b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.99	10.79	10.96	0	0
	1	36	11.08	11.01	11.00		0
	1	74	10.71	11.00	11.06		0
	36	0	11.06	10.96	10.87	0-1	0
	36	18	11.21	11.10	11.04		0
	36	37	11.06	11.11	11.10		0
	75	0	11.22	11.08	11.03		0
16QAM	1	0	11.25	11.00	11.14	0-1	0
	1	36	11.48	11.51	11.56		0
	1	74	10.94	11.69	11.34		0
	36	0	11.10	10.95	10.88	0-2	0
	36	18	11.30	11.13	11.14		0
	36	37	11.09	11.14	11.07		0
	75	0	11.24	11.11	11.10		0
64QAM	1	0	11.27	11.40	11.32	0-2	0
	1	36	11.44	11.43	11.56		0
	1	74	10.74	11.31	11.53		0
	36	0	11.16	11.07	11.07	0-3	0
	36	18	11.23	11.14	11.12		0
	36	37	10.96	11.18	11.06		0
	75	0	11.23	11.11	11.08		0

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Table 8-217
LTE Band 2 Conducted Powers Ant 4b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.26	10.90	11.09	0	0
	1	25	11.33	11.00	10.95		0
	1	49	11.27	10.92	10.77		0
	25	0	11.16	11.13	11.04	0-1	0
	25	12	11.16	11.08	10.98		0
	25	25	11.27	11.05	10.94		0
	50	0	11.29	11.12	11.01		0
16QAM	1	0	11.58	11.38	11.52	0-1	0
	1	25	11.69	11.57	11.49		0
	1	49	11.57	11.53	11.14		0
	25	0	11.17	11.16	10.96	0-2	0
	25	12	11.15	11.11	10.99		0
	25	25	11.30	11.05	11.01		0
	50	0	11.32	11.16	10.96		0
64QAM	1	0	11.59	11.40	11.38	0-2	0
	1	25	11.62	11.46	11.33		0
	1	49	11.47	11.13	11.35		0
	25	0	11.17	11.05	11.04	0-3	0
	25	12	11.15	11.06	10.97		0
	25	25	11.33	11.06	10.89		0
	50	0	11.32	11.06	11.01		0

Table 8-218
LTE Band 2 Conducted Powers Ant 4b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.16	10.91	11.01	0	0
	1	12	11.16	10.96	10.97		0
	1	24	11.12	10.91	10.87		0
	12	0	11.15	11.01	11.01	0-1	0
	12	6	11.11	11.03	10.93		0
	12	13	11.12	11.09	10.97		0
	25	0	11.11	11.05	10.97		0
16QAM	1	0	11.37	11.36	11.40	0-1	0
	1	12	11.34	11.36	11.33		0
	1	24	11.33	11.42	10.90		0
	12	0	11.17	11.06	11.04	0-2	0
	12	6	11.13	11.04	11.02		0
	12	13	11.14	11.11	11.06		0
	25	0	11.02	11.07	11.04		0
64QAM	1	0	11.34	11.35	11.18	0-2	0
	1	12	11.33	11.42	11.26		0
	1	24	11.37	11.39	10.87		0
	12	0	11.27	11.06	11.00	0-3	0
	12	6	11.19	11.14	11.06		0
	12	13	11.13	11.19	11.05		0
	25	0	11.09	11.14	11.01		0

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Table 8-219
LTE Band 2 Conducted Powers Ant 4b - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.23	10.86	11.03	0	0
	1	7	11.30	10.96	10.89		0
	1	14	11.24	10.88	10.71		0
	8	0	11.13	11.09	10.98	0-1	0
	8	4	11.13	11.04	10.92		0
	8	7	11.24	11.01	10.88		0
	15	0	11.26	11.08	10.95		0
16QAM	1	0	11.55	11.34	11.46	0-1	0
	1	7	11.69	11.53	11.43		0
	1	14	11.55	11.49	11.08		0
	8	0	11.15	11.11	10.90	0-2	0
	8	4	11.13	11.06	10.96		0
	8	7	11.28	11.00	10.98		0
	15	0	11.30	11.11	10.93		0
64QAM	1	0	11.57	11.35	11.35	0-2	0
	1	7	11.60	11.41	11.30		0
	1	14	11.55	11.08	11.32		0
	8	0	11.15	11.00	11.01	0-3	0
	8	4	11.13	11.01	10.94		0
	8	7	11.31	11.01	10.86		0
	15	0	11.30	11.01	10.98		0

Table 8-220
LTE Band 2 Conducted Powers Ant 4b - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.15	10.89	10.95	0	0
	1	2	11.15	10.94	10.91		0
	1	5	11.11	10.89	10.81		0
	3	0	11.14	10.99	10.95		0
	3	2	11.10	11.01	10.87		0
	3	3	11.11	11.07	10.91		0
	6	0	11.10	11.03	10.91	0-1	0
16QAM	1	0	11.36	11.34	11.34	0-1	0
	1	2	11.33	11.34	11.27		0
	1	5	11.32	11.41	10.84		0
	3	0	11.14	11.05	10.98		0
	3	2	11.10	11.03	10.97		0
	3	3	11.11	11.10	11.01		0
	6	0	10.99	11.06	10.99	0-2	0
64QAM	1	0	11.31	11.34	11.13	0-2	0
	1	2	11.30	11.41	11.21		0
	1	5	11.34	11.38	10.82		0
	3	0	11.24	11.05	10.95		0
	3	2	11.16	11.13	11.01		0
	3	3	11.10	11.18	11.00		0
	6	0	11.06	11.13	10.96	0-3	0

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8.3.10 LTE Band 25

Table 8-221
LTE Band 25 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.62	14.75	14.53	0	0
	1	50	14.73	14.86	14.78		0
	1	99	14.62	14.63	**15.03**		0
	50	0	14.71	**14.91**	14.73	0-1	0
	50	25	14.80	14.88	14.83		0
	50	50	14.73	14.72	14.80		0
	100	0	14.78	14.84	14.89		0
16QAM	1	0	14.74	14.69	14.65	0-1	0
	1	50	14.77	14.94	15.06		0
	1	99	14.65	14.64	14.98		0
	50	0	14.26	14.43	14.27	0-2	0
	50	25	14.35	14.43	14.31		0
	50	50	14.25	14.32	14.28		0
	100	0	14.32	14.36	14.34		0
64QAM	1	0	14.63	14.69	14.55	0-2	0
	1	50	14.70	14.87	14.77		0
	1	99	14.62	14.56	14.98		0
	50	0	14.22	14.43	14.28	0-3	0
	50	25	14.32	14.35	14.35		0
	50	50	14.24	14.26	14.29		0
	100	0	14.34	14.33	14.37		0

Table 8-222
LTE Band 25 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26115 (1857.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26615 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.66	14.95	14.69	0	0
	1	36	14.90	15.03	14.72		0
	1	74	14.66	14.82	14.72		0
	36	0	14.75	14.91	14.83	0-1	0
	36	18	14.97	14.93	14.83		0
	36	37	14.93	14.84	14.74		0
	75	0	14.95	14.94	14.81		0
16QAM	1	0	14.48	14.75	14.68	0-1	0
	1	36	14.79	14.79	14.71		0
	1	74	14.49	14.61	14.77		0
	36	0	14.28	14.58	14.44	0-2	0
	36	18	14.49	14.52	14.44		0
	36	37	14.48	14.49	14.37		0
	75	0	14.49	14.55	14.42		0
64QAM	1	0	14.61	14.65	14.56	0-2	0
	1	36	14.69	14.77	14.60		0
	1	74	14.51	14.61	14.64		0
	36	0	14.31	14.59	14.49	0-3	0
	36	18	14.52	14.53	14.48		0
	36	37	14.49	14.46	14.40		0
	75	0	14.47	14.50	14.44		0

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Table 8-223
LTE Band 25 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26090 (1855.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26640 (1910.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.72	14.88	14.69	0	0
	1	25	14.85	14.84	14.63		0
	1	49	14.98	14.76	14.85		0
	25	0	14.75	14.88	14.76	0-1	0
	25	12	14.89	14.89	14.74		0
	25	25	15.01	14.94	14.88		0
	50	0	14.89	14.91	14.77		0
16QAM	1	0	14.69	14.70	14.69	0-1	0
	1	25	14.72	14.79	14.55		0
	1	49	14.76	14.65	14.85		0
	25	0	14.39	14.55	14.40	0-2	0
	25	12	14.41	14.55	14.37		0
	25	25	14.56	14.59	14.49		0
	50	0	14.48	14.55	14.38		0
64QAM	1	0	14.75	14.77	14.52	0-2	0
	1	25	14.77	14.82	14.52		0
	1	49	14.71	14.71	14.77		0
	25	0	14.34	14.52	14.44	0-3	0
	25	12	14.40	14.56	14.38		0
	25	25	14.56	14.62	14.50		0
	50	0	14.45	14.56	14.39		0

Table 8-224
LTE Band 25 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26065 (1852.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26665 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.83	14.81	14.60	0	0
	1	12	14.82	14.81	14.65		0
	1	24	14.97	14.90	14.75		0
	12	0	14.72	14.82	14.75	0-1	0
	12	6	14.70	14.82	14.77		0
	12	13	14.75	14.87	14.79		0
	25	0	14.72	14.86	14.81		0
16QAM	1	0	14.61	14.71	14.54	0-1	0
	1	12	14.52	14.74	14.69		0
	1	24	14.71	14.77	14.72		0
	12	0	14.32	14.49	14.33	0-2	0
	12	6	14.35	14.48	14.39		0
	12	13	14.39	14.49	14.39		0
	25	0	14.31	14.46	14.41		0
64QAM	1	0	14.27	14.59	14.66	0-2	0
	1	12	14.51	14.60	14.73		0
	1	24	14.49	14.75	14.78		0
	12	0	14.33	14.41	14.40	0-3	0
	12	6	14.32	14.37	14.47		0
	12	13	14.36	14.45	14.41		0
	25	0	14.29	14.41	14.40		0

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Table 8-225
LTE Band 25 Conducted Powers Ant 2a - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26055 (1851.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26675 (1913.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.59	14.75	14.62	0	0
	1	7	14.67	14.82	14.65		0
	1	14	14.61	14.79	14.61		0
	8	0	14.62	14.80	14.72	0-1	0
	8	4	14.63	14.83	14.72		0
	8	7	14.63	14.86	14.74		0
	15	0	14.68	14.85	14.76		0
16QAM	1	0	14.46	14.68	14.72	0-1	0
	1	7	14.58	14.56	14.73		0
	1	14	14.45	14.70	14.68		0
	8	0	14.35	14.42	14.42	0-2	0
	8	4	14.31	14.44	14.37		0
	8	7	14.35	14.45	14.39		0
	15	0	14.31	14.41	14.40		0
64QAM	1	0	14.58	14.50	14.53	0-2	0
	1	7	14.64	14.69	14.57		0
	1	14	14.47	14.58	14.58		0
	8	0	14.33	14.41	14.42	0-3	0
	8	4	14.34	14.46	14.35		0
	8	7	14.35	14.41	14.40		0
	15	0	14.31	14.39	14.43		0

Table 8-226
LTE Band 25 Conducted Powers Ant 2a - 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26047 (1850.7 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26683 (1914.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.66	14.84	14.84	0	0
	1	2	14.63	14.82	14.81		0
	1	5	14.67	14.86	14.90		0
	3	0	14.63	14.83	14.73		0
	3	2	14.65	14.83	14.74		0
	3	3	14.67	14.84	14.76		0
	6	0	14.64	14.84	14.73	0-1	0
16QAM	1	0	14.50	14.50	14.65	0-1	0
	1	2	14.77	14.40	14.59		0
	1	5	14.63	14.64	14.50		0
	3	0	14.37	14.47	14.54		0
	3	2	14.52	14.48	14.49		0
	3	3	14.47	14.54	14.35		0
	6	0	14.40	14.50	14.43	0-2	0
64QAM	1	0	14.49	14.62	14.43	0-2	0
	1	2	14.67	14.63	14.82		0
	1	5	14.72	14.71	14.62		0
	3	0	14.32	14.40	14.67		0
	3	2	14.46	14.45	14.68		0
	3	3	14.45	14.48	14.64		0
	6	0	14.36	14.47	14.38	0-3	0

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Table 8-227
LTE Band 25 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.53	13.72	13.66	0	0
	1	50	13.73	13.77	13.85		0
	1	99	13.30	13.82	**14.08**		0
	50	0	13.79	13.78	13.77	0-1	0
	50	25	13.75	13.74	13.82		0
	50	50	13.70	13.72	**13.91**		0
	100	0	13.81	13.76	13.82		0
16QAM	1	0	13.60	13.46	13.55	0-1	0
	1	50	13.67	13.49	13.80		0
	1	99	13.56	13.49	14.03		0
	50	0	13.59	13.47	13.45	0-2	0
	50	25	13.59	13.40	13.50		0
	50	50	13.42	13.40	13.66		0
	100	0	13.58	13.41	13.52		0
64QAM	1	0	13.80	13.50	13.62	0-2	0
	1	50	13.84	13.75	13.72		0
	1	99	13.69	13.77	13.79		0
	50	0	13.38	13.40	13.46	0-3	0
	50	25	13.39	13.38	13.45		0
	50	50	13.24	13.33	13.48		0
	100	0	13.36	13.35	13.45		0

Table 8-228
LTE Band 25 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26115 (1857.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26615 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.60	13.61	13.94	0	0
	1	36	13.79	13.77	13.90		0
	1	74	13.54	13.62	14.03		0
	36	0	13.61	13.71	13.87	0-1	0
	36	18	13.78	13.86	14.01		0
	36	37	13.76	13.78	14.00		0
	75	0	13.81	13.77	13.97		0
16QAM	1	0	13.37	13.40	13.73	0-1	0
	1	36	13.51	13.75	13.53		0
	1	74	13.22	13.45	13.89		0
	36	0	13.29	13.39	13.51	0-2	0
	36	18	13.40	13.55	13.57		0
	36	37	13.34	13.44	13.60		0
	75	0	13.41	13.46	13.54		0
64QAM	1	0	13.52	13.64	13.73	0-2	0
	1	36	13.62	13.80	13.57		0
	1	74	13.14	13.72	13.86		0
	36	0	13.32	13.41	13.49	0-3	0
	36	18	13.41	13.54	13.60		0
	36	37	13.36	13.44	13.63		0
	75	0	13.39	13.44	13.55		0

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Table 8-229
LTE Band 25 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26090 (1855.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26640 (1910.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.74	13.64	13.76	0	0
	1	25	13.77	13.68	13.83		0
	1	49	13.78	13.80	14.02		0
	25	0	13.59	13.79	13.90	0-1	0
	25	12	13.67	13.81	13.98		0
	25	25	13.76	13.82	14.06		0
	50	0	13.69	13.74	14.04		0
16QAM	1	0	13.62	13.52	13.67	0-1	0
	1	25	13.63	13.38	13.54		0
	1	49	13.70	13.62	14.00		0
	25	0	13.23	13.36	13.46	0-2	0
	25	12	13.31	13.40	13.56		0
	25	25	13.42	13.38	13.76		0
	50	0	13.29	13.32	13.62		0
64QAM	1	0	13.55	13.68	13.54	0-2	0
	1	25	13.47	13.55	13.54		0
	1	49	13.50	13.72	14.08		0
	25	0	13.28	13.37	13.48	0-3	0
	25	12	13.31	13.36	13.59		0
	25	25	13.39	13.37	13.79		0
	50	0	13.29	13.33	13.60		0

Table 8-230
LTE Band 25 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26065 (1852.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26665 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.54	13.69	13.86	0	0
	1	12	13.56	13.63	13.94		0
	1	24	13.66	13.68	13.97		0
	12	0	13.52	13.70	13.94	0-1	0
	12	6	13.49	13.72	13.98		0
	12	13	13.53	13.70	14.06		0
	25	0	13.52	13.68	14.00		0
16QAM	1	0	13.37	13.71	13.70	0-1	0
	1	12	13.44	13.47	14.03		0
	1	24	13.62	13.69	13.99		0
	12	0	13.20	13.45	13.73	0-2	0
	12	6	13.21	13.42	13.72		0
	12	13	13.29	13.39	13.74		0
	25	0	13.26	13.38	13.76		0
64QAM	1	0	13.51	13.63	13.87	0-2	0
	1	12	13.66	13.55	13.75		0
	1	24	13.70	13.61	13.82		0
	12	0	13.26	13.41	13.71	0-3	0
	12	6	13.27	13.48	13.75		0
	12	13	13.32	13.44	13.76		0
	25	0	13.20	13.36	13.77		0

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Table 8-231
LTE Band 25 Conducted Powers Ant 2b - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26055 (1851.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26675 (1913.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.46	13.62	13.93	0	0
	1	7	13.55	13.61	14.06		0
	1	14	13.47	13.62	14.02		0
	8	0	13.45	13.70	14.07	0-1	0
	8	4	13.42	13.63	14.00		0
	8	7	13.43	13.64	14.02		0
	15	0	13.44	13.69	13.99		0
16QAM	1	0	13.34	13.45	13.66	0-1	0
	1	7	13.41	13.44	13.65		0
	1	14	13.38	13.47	13.85		0
	8	0	13.22	13.34	13.77	0-2	0
	8	4	13.18	13.35	13.70		0
	8	7	13.22	13.32	13.76		0
	15	0	13.17	13.27	13.70		0
64QAM	1	0	13.33	13.51	13.78	0-2	0
	1	7	13.53	13.50	13.83		0
	1	14	13.29	13.61	13.88		0
	8	0	13.20	13.31	13.73	0-3	0
	8	4	13.16	13.27	13.74		0
	8	7	13.15	13.33	13.72		0
	15	0	13.16	13.27	13.78		0

Table 8-232
LTE Band 25 Conducted Powers Ant 2b - 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26047 (1850.7 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26683 (1914.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.49	13.79	13.98	0	0
	1	2	13.55	13.76	13.98		0
	1	5	13.62	13.75	13.96		0
	3	0	13.43	13.67	14.03		0
	3	2	13.49	13.65	14.01		0
	3	3	13.51	13.64	13.98		0
	6	0	13.47	13.62	14.02	0-1	0
16QAM	1	0	13.49	13.41	13.96	0-1	0
	1	2	13.60	13.36	14.04		0
	1	5	13.48	13.23	14.05		0
	3	0	13.31	13.27	13.92		0
	3	2	13.39	13.24	13.92		0
	3	3	13.35	13.26	14.01		0
	6	0	13.27	13.27	13.84	0-2	0
64QAM	1	0	13.43	13.57	14.05	0-2	0
	1	2	13.43	13.37	14.10		0
	1	5	13.42	13.48	13.90		0
	3	0	13.20	13.36	13.90		0
	3	2	13.39	13.30	13.91		0
	3	3	13.39	13.33	13.96		0
	6	0	13.23	13.17	13.85	0-3	0

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Table 8-233
LTE Band 25 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.51	14.64	14.79	0	0
	1	50	14.37	14.59	**14.90**		0
	1	99	14.34	14.69	14.89		0
	50	0	14.54	14.59	14.85	0-1	0
	50	25	14.57	14.54	**14.87**		0
	50	50	14.47	14.58	14.81		0
	100	0	14.49	14.55	14.84		0
16QAM	1	0	14.74	14.69	14.63	0-1	0
	1	50	14.61	14.59	14.78		0
	1	99	14.51	14.70	14.89		0
	50	0	14.37	14.34	14.61	0-2	0
	50	25	14.31	14.28	14.54		0
	50	50	14.28	14.27	14.51		0
	100	0	14.27	14.26	14.52		0
64QAM	1	0	14.64	14.61	14.87	0-2	0
	1	50	14.46	14.41	14.84		0
	1	99	14.70	14.62	14.77		0
	50	0	13.94	13.94	14.48	0-3	0
	50	25	14.02	14.02	14.37		0
	50	50	14.08	14.07	14.44		0
	100	0	14.03	14.04	14.35		0

Table 8-234
LTE Band 25 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26115 (1857.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26615 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.57	14.81	14.88	0	0
	1	36	14.48	14.70	14.80		0
	1	74	14.42	14.83	14.70		0
	36	0	14.45	14.70	14.82	0-1	0
	36	18	14.52	14.59	14.88		0
	36	37	14.52	14.66	14.83		0
	75	0	14.49	14.65	14.85		0
16QAM	1	0	14.61	14.61	14.63	0-1	0
	1	36	14.41	14.36	14.79		0
	1	74	14.39	14.66	14.39		0
	36	0	14.25	14.34	14.57	0-2	0
	36	18	14.36	14.25	14.59		0
	36	37	14.31	14.45	14.56		0
	75	0	14.27	14.39	14.58		0
64QAM	1	0	14.78	14.33	14.88	0-2	0
	1	36	14.43	14.31	14.75		0
	1	74	14.60	14.61	14.66		0
	36	0	14.13	14.37	14.64	0-3	0
	36	18	14.16	14.36	14.51		0
	36	37	14.20	14.43	14.55		0
	75	0	14.14	14.36	14.47		0

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Table 8-235
LTE Band 25 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26090 (1855.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26640 (1910.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.65	14.61	14.73	0	0
	1	25	14.36	14.52	14.73		0
	1	49	14.43	14.60	14.75		0
	25	0	14.57	14.58	14.80	0-1	0
	25	12	14.47	14.50	14.87		0
	25	25	14.51	14.60	14.77		0
	50	0	14.46	14.62	14.82		0
16QAM	1	0	14.64	14.56	14.63	0-1	0
	1	25	14.42	14.38	14.68		0
	1	49	14.24	14.50	14.56		0
	25	0	14.30	14.30	14.53	0-2	0
	25	12	14.26	14.26	14.57		0
	25	25	14.27	14.33	14.48		0
	50	0	14.25	14.35	14.57		0
64QAM	1	0	14.50	14.54	14.66	0-2	0
	1	25	14.18	14.31	14.70		0
	1	49	14.31	14.47	14.80		0
	25	0	14.22	14.36	14.58	0-3	0
	25	12	14.17	14.29	14.62		0
	25	25	14.17	14.36	14.51		0
	50	0	14.19	14.39	14.59		0

Table 8-236
LTE Band 25 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26065 (1852.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26665 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.59	14.58	14.77	0	0
	1	12	14.47	14.50	14.58		0
	1	24	14.47	14.55	14.54		0
	12	0	14.49	14.48	14.79	0-1	0
	12	6	14.40	14.48	14.69		0
	12	13	14.32	14.66	14.64		0
	25	0	14.42	14.67	14.69		0
16QAM	1	0	14.56	14.42	14.57	0-1	0
	1	12	14.39	14.49	14.55		0
	1	24	14.36	14.42	14.75		0
	12	0	14.32	14.24	14.50	0-2	0
	12	6	14.26	14.22	14.37		0
	12	13	14.18	14.28	14.36		0
	25	0	14.21	14.35	14.40		0
64QAM	1	0	14.54	14.47	14.80	0-2	0
	1	12	14.27	14.31	14.67		0
	1	24	14.33	14.40	14.88		0
	12	0	14.17	14.30	14.65	0-3	0
	12	6	14.10	14.26	14.52		0
	12	13	14.01	14.34	14.49		0
	25	0	14.02	14.34	14.43		0

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Table 8-237
LTE Band 25 Conducted Powers Ant 4a - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26055 (1851.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26675 (1913.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.49	14.35	14.56	0	0
	1	7	14.43	14.45	14.62		0
	1	14	14.37	14.41	14.61		0
	8	0	14.54	14.44	14.68	0-1	0
	8	4	14.44	14.50	14.64		0
	8	7	14.46	14.52	14.73		0
	15	0	14.46	14.52	14.66		0
16QAM	1	0	14.55	14.18	14.45	0-1	0
	1	7	14.48	14.41	14.45		0
	1	14	14.35	14.30	14.44		0
	8	0	14.41	14.23	14.35	0-2	0
	8	4	14.37	14.30	14.30		0
	8	7	14.34	14.28	14.34		0
	15	0	14.24	14.29	14.32		0
64QAM	1	0	14.39	14.41	14.77	0-2	0
	1	7	14.47	14.54	14.72		0
	1	14	14.17	14.40	14.61		0
	8	0	14.18	14.29	14.48	0-3	0
	8	4	14.18	14.38	14.46		0
	8	7	14.25	14.36	14.51		0
	15	0	14.09	14.27	14.40		0

Table 8-238
LTE Band 25 Conducted Powers Ant 4a - 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26047 (1850.7 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26683 (1914.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.66	14.55	14.66	0	0
	1	2	14.56	14.55	14.69		0
	1	5	14.57	14.55	14.66		0
	3	0	14.68	14.67	14.63		0
	3	2	14.70	14.68	14.65		0
	3	3	14.70	14.69	14.66		0
	6	0	14.71	14.74	14.66	0-1	0
16QAM	1	0	14.68	14.18	14.55	0-1	0
	1	2	14.56	14.16	14.57		0
	1	5	14.42	14.18	14.64		0
	3	0	14.36	14.19	14.50		0
	3	2	14.31	14.23	14.49		0
	3	3	14.28	14.28	14.42		0
	6	0	14.24	14.17	14.38	0-2	0
64QAM	1	0	14.71	14.45	14.76	0-2	0
	1	2	14.56	14.40	14.54		0
	1	5	14.76	14.36	14.76		0
	3	0	14.33	14.30	14.45		0
	3	2	14.25	14.38	14.57		0
	3	3	14.33	14.31	14.53		0
	6	0	14.20	14.42	14.42	0-3	0

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Table 8-239
LTE Band 25 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**13.90**	13.74	13.74	0	0
	1	50	13.83	13.70	13.82		0
	1	99	13.71	13.72	13.86		0
	50	0	**13.84**	13.72	13.76	0-1	0
	50	25	13.78	13.71	13.79		0
	50	50	13.74	13.70	13.72		0
	100	0	13.78	13.74	13.80		0
16QAM	1	0	14.06	14.07	14.03	0-1	0
	1	50	14.07	14.07	14.03		0
	1	99	14.10	13.82	13.97		0
	50	0	14.03	13.86	13.78	0-2	0
	50	25	14.01	13.79	13.92		0
	50	50	13.82	13.70	13.84		0
	100	0	14.02	13.80	13.89		0
64QAM	1	0	14.05	13.82	13.81	0-2	0
	1	50	14.08	13.98	13.92		0
	1	99	14.09	13.90	14.09		0
	50	0	13.98	13.87	13.73	0-3	0
	50	25	13.93	13.84	13.73		0
	50	50	13.73	13.71	13.71		0
	100	0	13.90	13.86	13.80		0

Table 8-240
LTE Band 25 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26115 (1857.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26615 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.75	13.94	13.76	0	0
	1	36	13.95	13.91	13.83		0
	1	74	13.73	13.73	13.87		0
	36	0	13.86	13.90	13.84	0-1	0
	36	18	13.91	13.90	13.86		0
	36	37	13.86	13.72	13.89		0
	75	0	13.98	13.88	13.88		0
16QAM	1	0	14.12	14.08	13.98	0-1	0
	1	36	14.07	14.03	14.03		0
	1	74	13.89	13.89	14.04		0
	36	0	13.94	13.97	13.84	0-2	0
	36	18	14.06	13.95	13.85		0
	36	37	13.87	13.76	13.87		0
	75	0	14.03	13.89	13.85		0
64QAM	1	0	14.06	13.94	13.90	0-2	0
	1	36	14.10	14.04	14.04		0
	1	74	13.86	13.75	14.11		0
	36	0	13.93	13.90	13.85	0-3	0
	36	18	14.08	13.85	13.87		0
	36	37	13.94	13.76	13.86		0
	75	0	14.01	13.77	13.78		0

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Table 8-241
LTE Band 25 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26090 (1855.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26640 (1910.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.77	13.80	13.82	0	0
	1	25	13.76	13.76	13.78		0
	1	49	13.79	13.78	13.91		0
	25	0	13.80	13.85	13.84	0-1	0
	25	12	13.81	13.79	13.83		0
	25	25	13.88	13.79	13.98		0
	50	0	13.86	13.83	13.93		0
16QAM	1	0	14.12	13.95	14.07	0-1	0
	1	25	14.06	13.97	13.98		0
	1	49	14.08	13.81	14.11		0
	25	0	13.91	13.92	13.76	0-2	0
	25	12	13.90	13.87	13.75		0
	25	25	13.98	13.77	13.89		0
	50	0	14.00	13.83	13.80		0
64QAM	1	0	14.02	14.01	14.02	0-2	0
	1	25	14.00	14.04	13.98		0
	1	49	14.01	13.97	14.03		0
	25	0	13.88	13.89	13.72	0-3	0
	25	12	13.85	13.88	13.71		0
	25	25	13.94	13.87	13.84		0
	50	0	13.96	13.85	13.73		0

Table 8-242
LTE Band 25 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26065 (1852.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26665 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.90	13.83	13.76	0	0
	1	12	13.89	13.83	13.81		0
	1	24	13.89	13.82	13.88		0
	12	0	13.86	13.87	13.86	0-1	0
	12	6	13.82	13.84	13.94		0
	12	13	13.86	13.77	13.95		0
	25	0	13.82	13.85	13.96		0
16QAM	1	0	14.08	14.05	13.91	0-1	0
	1	12	14.04	14.05	14.09		0
	1	24	14.09	13.91	14.10		0
	12	0	13.85	13.83	13.82	0-2	0
	12	6	13.84	13.86	13.88		0
	12	13	13.83	13.77	13.92		0
	25	0	13.83	13.81	13.91		0
64QAM	1	0	14.11	13.97	13.90	0-2	0
	1	12	13.96	14.05	13.82		0
	1	24	14.01	14.01	14.11		0
	12	0	13.84	13.92	13.71	0-3	0
	12	6	13.85	13.83	13.82		0
	12	13	13.89	13.80	13.90		0
	25	0	13.82	13.89	13.82		0

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Table 8-243
LTE Band 25 Conducted Powers Ant 4b - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26055 (1851.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26675 (1913.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.73	13.75	13.76	0	0
	1	7	13.77	13.78	13.86		0
	1	14	13.70	13.72	13.84		0
	8	0	13.80	13.82	13.91	0-1	0
	8	4	13.78	13.83	13.95		0
	8	7	13.77	13.80	13.98		0
	15	0	13.80	13.81	13.94		0
16QAM	1	0	14.04	14.03	14.09	0-1	0
	1	7	14.10	14.03	14.07		0
	1	14	14.02	13.82	14.10		0
	8	0	13.87	13.80	13.87	0-2	0
	8	4	13.90	13.74	13.90		0
	8	7	13.87	13.79	13.85		0
	15	0	13.84	13.76	13.88		0
64QAM	1	0	13.87	13.76	14.04	0-2	0
	1	7	14.10	14.12	14.10		0
	1	14	14.02	13.87	14.02		0
	8	0	13.80	13.75	13.76	0-3	0
	8	4	13.85	13.70	13.82		0
	8	7	13.84	13.71	13.91		0
	15	0	13.85	13.78	13.87		0

Table 8-244
LTE Band 25 Conducted Powers Ant 4b - 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26047 (1850.7 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26683 (1914.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.74	13.71	13.92	0	0
	1	2	13.75	13.70	13.95		0
	1	5	13.76	13.74	13.92		0
	3	0	13.77	13.75	13.83		0
	3	2	13.71	13.79	13.84		0
	3	3	13.75	13.76	13.82		0
	6	0	13.71	13.77	13.83	0-1	0
16QAM	1	0	14.10	14.00	14.08	0-1	0
	1	2	14.05	13.95	14.12		0
	1	5	14.01	13.90	14.12		0
	3	0	13.93	13.89	13.93		0
	3	2	13.92	13.85	14.01		0
	3	3	13.94	13.80	13.93		0
	6	0	13.93	13.77	13.99	0-2	0
64QAM	1	0	13.98	14.10	14.12	0-2	0
	1	2	14.09	14.01	14.10		0
	1	5	14.12	14.12	14.09		0
	3	0	14.08	14.04	14.09		0
	3	2	14.09	14.03	14.12		0
	3	3	14.10	14.01	14.01		0
	6	0	13.92	13.84	13.89	0-3	0

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8.3.11 LTE Band 30

Table 8-245
LTE Band 30 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**12.15**	0	0
	1	25	12.06		0
	1	49	12.01		0
	25	0	**12.22**	0-1	0
	25	12	12.21		0
	25	25	12.02		0
	50	0	12.14		0
16QAM	1	0	12.23	0-1	0
	1	25	12.19		0
	1	49	12.05		0
	25	0	12.03	0-2	0
	25	12	12.04		0
	25	25	12.01		0
	50	0	12.01		0
64QAM	1	0	12.25	0-2	0
	1	25	12.25		0
	1	49	12.19		0
	25	0	12.02	0-3	0
	25	12	12.03		0
	25	25	12.01		0
	50	0	12.00		0

Table 8-246
LTE Band 30 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	12.10	0	0
	1	12	12.03		0
	1	24	12.07		0
	12	0	12.09	0-1	0
	12	6	12.14		0
	12	13	12.03		0
	25	0	12.15		0
16QAM	1	0	12.20	0-1	0
	1	12	12.26		0
	1	24	12.26		0
	12	0	12.00	0-2	0
	12	6	12.07		0
	12	13	12.05		0
	25	0	12.06		0
64QAM	1	0	12.18	0-2	0
	1	12	12.27		0
	1	24	12.18		0
	12	0	12.03	0-3	0
	12	6	12.12		0
	12	13	12.06		0
	25	0	12.02		0

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-247
LTE Band 30 Conducted Powers Ant 2a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**9.29**	0	0
	1	25	9.20		0
	1	49	9.19		0
	25	0	9.28	0-1	0
	25	12	**9.30**		0
	25	25	9.15		0
	50	0	9.20		0
16QAM	1	0	9.21	0-1	0
	1	25	9.02		0
	1	49	9.05		0
	25	0	9.05	0-2	0
	25	12	9.03		0
	25	25	9.04		0
	50	0	9.02		0
64QAM	1	0	9.28	0-2	0
	1	25	9.22		0
	1	49	9.02		0
	25	0	9.03	0-3	0
	25	12	9.06		0
	25	25	9.05		0
	50	0	9.07		0

Table 8-248
LTE Band 30 Conducted Powers Ant 2a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	9.36	0	0
	1	12	9.31		0
	1	24	9.15		0
	12	0	9.34	0-1	0
	12	6	9.31		0
	12	13	9.10		0
	25	0	9.21		0
16QAM	1	0	9.49	0-1	0
	1	12	9.40		0
	1	24	9.30		0
	12	0	9.34	0-2	0
	12	6	9.32		0
	12	13	9.21		0
	25	0	9.23		0
64QAM	1	0	9.38	0-2	0
	1	12	9.39		0
	1	24	9.28		0
	12	0	9.32	0-3	0
	12	6	9.24		0
	12	13	9.23		0
	25	0	9.18		0

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-249
LTE Band 30 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**13.14**	0	0
	1	25	13.13		0
	1	49	12.96		0
	25	0	13.06	0-1	0
	25	12	13.11		0
	25	25	**13.15**		0
	50	0	13.07		0
16QAM	1	0	13.13	0-1	0
	1	25	13.04		0
	1	49	12.99		0
	25	0	12.83	0-2	0
	25	12	12.89		0
	25	25	12.89		0
	50	0	12.82		0
64QAM	1	0	13.14	0-2	0
	1	25	13.09		0
	1	49	13.05		0
	25	0	12.82	0-3	0
	25	12	12.92		0
	25	25	12.92		0
	50	0	12.83		0

Table 8-250
LTE Band 30 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	13.02	0	0
	1	12	12.94		0
	1	24	12.90		0
	12	0	13.04	0-1	0
	12	6	13.04		0
	12	13	12.92		0
	25	0	12.96		0
16QAM	1	0	13.14	0-1	0
	1	12	13.06		0
	1	24	13.06		0
	12	0	13.04	0-2	0
	12	6	13.03		0
	12	13	12.94		0
	25	0	12.94		0
64QAM	1	0	13.14	0-2	0
	1	12	13.13		0
	1	24	13.11		0
	12	0	13.03	0-3	0
	12	6	12.97		0
	12	13	12.93		0
	25	0	12.95		0

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-251
LTE Band 30 Conducted Powers Ant 2b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**10.11**	0	0
	1	25	9.94		0
	1	49	9.78		0
	25	0	10.03	0-1	0
	25	12	**10.06**		0
	25	25	9.96		0
	50	0	9.98		0
16QAM	1	0	10.31	0-1	0
	1	25	10.28		0
	1	49	10.20		0
	25	0	10.27	0-2	0
	25	12	10.31		0
	25	25	10.13		0
	50	0	10.34		0
64QAM	1	0	10.38	0-2	0
	1	25	10.40		0
	1	49	10.22		0
	25	0	10.25	0-3	0
	25	12	10.32		0
	25	25	10.12		0
	50	0	10.27		0

Table 8-252
LTE Band 30 Conducted Powers Ant 2b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	10.06	0	0
	1	12	10.14		0
	1	24	9.95		0
	12	0	10.12	0-1	0
	12	6	10.11		0
	12	13	9.91		0
	25	0	10.16		0
16QAM	1	0	10.38	0-1	0
	1	12	10.26		0
	1	24	10.26		0
	12	0	10.14	0-2	0
	12	6	10.24		0
	12	13	9.99		0
	25	0	10.18		0
64QAM	1	0	10.39	0-2	0
	1	12	10.28		0
	1	24	10.36		0
	12	0	10.17	0-3	0
	12	6	10.21		0
	12	13	9.92		0
	25	0	10.21		0

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-253
LTE Band 30 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	12.55	0	0
	1	25	**12.60**		0
	1	49	12.48		0
	25	0	12.54	0-1	0
	25	12	12.53		0
	25	25	**12.61**		0
	50	0	12.58		0
16QAM	1	0	12.63	0-1	0
	1	25	12.64		0
	1	49	12.51		0
	25	0	12.32	0-2	0
	25	12	12.33		0
	25	25	12.31		0
	50	0	12.34		0
64QAM	1	0	12.67	0-2	0
	1	25	12.68		0
	1	49	12.55		0
	25	0	12.25	0-3	0
	25	12	12.27		0
	25	25	12.34		0
	50	0	12.26		0

Table 8-254
LTE Band 30 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	12.39	0	0
	1	12	12.45		0
	1	24	12.45		0
	12	0	12.55	0-1	0
	12	6	12.56		0
	12	13	12.55		0
	25	0	12.56		0
16QAM	1	0	12.53	0-1	0
	1	12	12.61		0
	1	24	12.48		0
	12	0	12.54	0-2	0
	12	6	12.57		0
	12	13	12.57		0
	25	0	12.51		0
64QAM	1	0	12.66	0-2	0
	1	12	12.63		0
	1	24	12.70		0
	12	0	12.55	0-3	0
	12	6	12.58		0
	12	13	12.60		0
	25	0	12.51		0

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-255
LTE Band 30 Conducted Powers Ant 4a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	9.61	0	0
	1	25	**9.80**		0
	1	49	9.76		0
	25	0	9.76	0-1	0
	25	12	9.87		0
	25	25	**9.95**		0
	50	0	9.79		0
16QAM	1	0	9.74	0-1	0
	1	25	9.99		0
	1	49	10.00		0
	25	0	9.77	0-2	0
	25	12	9.86		0
	25	25	9.94		0
	50	0	9.88		0
64QAM	1	0	9.88	0-2	0
	1	25	9.97		0
	1	49	9.90		0
	25	0	9.87	0-3	0
	25	12	9.92		0
	25	25	9.89		0
	50	0	9.91		0

Table 8-256
LTE Band 30 Conducted Powers Ant 4a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	9.82	0	0
	1	12	9.81		0
	1	24	9.79		0
	12	0	9.83	0-1	0
	12	6	9.84		0
	12	13	9.86		0
	25	0	9.85		0
16QAM	1	0	10.08	0-1	0
	1	12	10.07		0
	1	24	10.06		0
	12	0	9.79	0-2	0
	12	6	9.80		0
	12	13	9.85		0
	25	0	9.83		0
64QAM	1	0	9.97	0-2	0
	1	12	9.98		0
	1	24	10.00		0
	12	0	9.76	0-3	0
	12	6	9.79		0
	12	13	9.88		0
	25	0	9.81		0

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-257
LTE Band 30 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	13.32	0	0
	1	25	13.36		0
	1	49	**13.39**		0
	25	0	13.32	0-1	0
	25	12	13.40		0
	25	25	**13.47**		0
	50	0	13.38		0
16QAM	1	0	13.46	0-1	0
	1	25	13.36		0
	1	49	13.37		0
	25	0	13.08	0-2	0
	25	12	13.13		0
	25	25	13.18		0
	50	0	13.21		0
64QAM	1	0	13.40	0-2	0
	1	25	13.46		0
	1	49	13.35		0
	25	0	13.12	0-3	0
	25	12	13.20		0
	25	25	13.17		0
	50	0	13.23		0

Table 8-258
LTE Band 30 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	13.27	0	0
	1	12	13.31		0
	1	24	13.25		0
	12	0	13.31	0-1	0
	12	6	13.46		0
	12	13	13.44		0
	25	0	13.45		0
16QAM	1	0	13.32	0-1	0
	1	12	13.46		0
	1	24	13.35		0
	12	0	12.98	0-2	0
	12	6	13.19		0
	12	13	13.16		0
	25	0	13.21		0
64QAM	1	0	12.96	0-2	0
	1	12	13.18		0
	1	24	13.23		0
	12	0	12.78	0-3	0
	12	6	12.98		0
	12	13	12.96		0
	25	0	13.01		0

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-259
LTE Band 30 Conducted Powers Ant 4b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	10.45	0	0
	1	25	**10.47**		0
	1	49	10.38		0
	25	0	10.40	0-1	0
	25	12	10.49		0
	25	25	**10.56**		0
	50	0	10.45		0
16QAM	1	0	10.64	0-1	0
	1	25	10.70		0
	1	49	10.63		0
	25	0	10.44	0-2	0
	25	12	10.53		0
	25	25	10.60		0
	50	0	10.58		0
64QAM	1	0	10.70	0-2	0
	1	25	10.67		0
	1	49	10.35		0
	25	0	10.42	0-3	0
	25	12	10.46		0
	25	25	10.39		0
	50	0	10.47		0

Table 8-260
LTE Band 30 Conducted Powers Ant 4b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	10.21	0	0
	1	12	10.33		0
	1	24	10.34		0
	12	0	10.19	0-1	0
	12	6	10.38		0
	12	13	10.40		0
	25	0	10.47		0
16QAM	1	0	10.52	0-1	0
	1	12	10.50		0
	1	24	10.44		0
	12	0	10.14	0-2	0
	12	6	10.33		0
	12	13	10.28		0
	25	0	10.42		0
64QAM	1	0	10.54	0-2	0
	1	12	10.48		0
	1	24	10.49		0
	12	0	10.17	0-3	0
	12	6	10.32		0
	12	13	10.31		0
	25	0	10.40		0

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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8.3.12 LTE Band 7

Table 8-261
LTE Band 7 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.00	11.78	11.85	0	0
	1	50	12.03	11.83	11.81		0
	1	99	**12.05**	12.00	11.90		0
	50	0	11.97	11.80	11.86	0-1	0
	50	25	12.07	11.92	11.84		0
	50	50	**12.10**	12.01	11.88		0
	100	0	12.04	11.99	11.75		0
16QAM	1	0	12.35	11.82	11.86	0-1	0
	1	50	12.33	11.80	11.82		0
	1	99	12.25	12.01	12.14		0
	50	0	11.92	11.70	11.70	0-2	0
	50	25	11.95	11.72	11.70		0
	50	50	11.92	11.73	11.78		0
	100	0	11.96	11.76	11.70		0
64QAM	1	0	12.25	11.78	12.02	0-2	0
	1	50	12.44	11.76	11.91		0
	1	99	12.08	11.87	12.17		0
	50	0	11.82	11.71	11.70	0-3	0
	50	25	11.87	11.72	11.71		0
	50	50	11.88	11.76	11.73		0
	100	0	11.88	11.75	11.70		0

Table 8-262
LTE Band 7 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.20	11.80	11.84	0	0
	1	36	12.12	11.91	11.86		0
	1	74	12.20	11.83	12.03		0
	36	0	12.11	11.85	11.78	0-1	0
	36	18	12.15	11.85	11.87		0
	36	37	12.20	11.88	11.98		0
	75	0	12.11	11.83	11.85		0
16QAM	1	0	12.44	11.80	11.70	0-1	0
	1	36	12.24	11.86	11.89		0
	1	74	12.23	11.99	12.09		0
	36	0	11.87	11.72	11.71	0-2	0
	36	18	11.93	11.77	11.73		0
	36	37	11.98	11.81	11.85		0
	75	0	11.87	11.75	11.70		0
64QAM	1	0	12.30	11.74	11.93	0-2	0
	1	36	12.19	11.91	12.06		0
	1	74	12.22	11.93	12.24		0
	36	0	11.84	11.74	11.71	0-3	0
	36	18	11.95	11.76	11.74		0
	36	37	11.97	11.84	11.85		0
	75	0	11.88	11.77	11.70		0

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Table 8-263
LTE Band 7 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.20	11.84	12.00	0	0
	1	25	12.15	11.81	11.94		0
	1	49	12.20	11.82	12.08		0
	25	0	12.17	11.77	11.85	0-1	0
	25	12	12.12	11.83	11.98		0
	25	25	12.10	11.84	12.15		0
	50	0	12.05	11.84	12.02		0
16QAM	1	0	12.24	11.84	11.70	0-1	0
	1	25	11.95	11.93	11.92		0
	1	49	12.11	12.08	12.09		0
	25	0	11.80	11.71	11.71	0-2	0
	25	12	11.78	11.72	11.82		0
	25	25	11.81	11.79	12.00		0
	50	0	11.78	11.71	11.87		0
64QAM	1	0	12.44	11.71	11.89	0-2	0
	1	25	12.10	11.84	12.07		0
	1	49	12.20	11.91	12.21		0
	25	0	11.79	11.71	11.73	0-3	0
	25	12	11.82	11.73	11.82		0
	25	25	11.86	11.76	12.02		0
	50	0	11.82	11.72	11.88		0

Table 8-264
LTE Band 7 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.10	11.77	12.18	0	0
	1	12	12.04	11.75	12.08		0
	1	24	12.06	11.70	12.03		0
	12	0	12.16	11.75	12.04	0-1	0
	12	6	12.11	11.73	12.14		0
	12	13	12.07	11.72	12.13		0
	25	0	12.13	11.72	12.16		0
16QAM	1	0	12.20	11.78	12.07	0-1	0
	1	12	12.06	11.82	12.07		0
	1	24	11.95	11.99	11.88		0
	12	0	11.94	11.71	11.88	0-2	0
	12	6	11.80	11.74	11.98		0
	12	13	11.79	11.81	11.98		0
	25	0	11.80	11.70	12.00		0
64QAM	1	0	12.06	11.88	12.21	0-2	0
	1	12	11.97	11.77	12.29		0
	1	24	11.89	12.10	12.44		0
	12	0	11.99	11.72	11.94	0-3	0
	12	6	11.76	11.70	11.96		0
	12	13	11.74	11.74	11.96		0
	25	0	11.74	11.72	11.98		0

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Table 8-265
LTE Band 7 Conducted Powers Ant 2a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	9.19	8.99	9.12	0	0
	1	50	8.95	8.84	8.87		0
	1	99	8.94	8.95	**9.20**		0
	50	0	9.04	8.74	9.02	0-1	0
	50	25	9.02	8.82	8.93		0
	50	50	9.05	8.88	**9.10**		0
	100	0	9.03	8.89	8.83		0
16QAM	1	0	9.37	8.87	9.39	0-1	0
	1	50	9.40	8.90	9.28		0
	1	99	9.35	9.36	9.40		0
	50	0	9.13	8.85	8.96	0-2	0
	50	25	9.21	9.02	8.89		0
	50	50	9.24	8.90	9.06		0
	100	0	9.15	8.79	8.76		0
64QAM	1	0	9.24	9.24	9.28	0-2	0
	1	50	9.37	9.23	9.22		0
	1	99	9.21	9.33	9.21		0
	50	0	9.07	8.70	8.96	0-3	0
	50	25	9.24	8.78	8.90		0
	50	50	9.16	8.93	8.94		0
	100	0	9.17	8.85	8.88		0

Table 8-266
LTE Band 7 Conducted Powers Ant 2a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	9.36	9.10	9.21	0	0
	1	36	9.44	9.23	8.94		0
	1	74	9.34	9.26	9.04		0
	36	0	9.22	9.20	9.00	0-1	0
	36	18	9.34	9.27	9.04		0
	36	37	9.31	9.27	9.08		0
	75	0	9.18	9.09	9.19		0
16QAM	1	0	9.37	9.00	9.67	0-1	0
	1	36	9.25	9.10	9.52		0
	1	74	9.14	9.27	9.46		0
	36	0	9.04	8.97	9.03	0-2	0
	36	18	9.16	9.07	9.01		0
	36	37	9.15	9.08	9.08		0
	75	0	9.14	9.07	8.98		0
64QAM	1	0	9.51	9.08	9.35	0-2	0
	1	36	9.31	9.17	9.16		0
	1	74	9.23	9.37	9.29		0
	36	0	9.07	8.96	8.97	0-3	0
	36	18	9.18	9.02	9.02		0
	36	37	9.14	9.08	9.06		0
	75	0	9.14	9.10	8.99		0

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Table 8-267
LTE Band 7 Conducted Powers Ant 2a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	9.30	8.91	9.16	0	0
	1	25	9.20	8.97	9.03		0
	1	49	9.37	9.10	9.10		0
	25	0	9.05	9.01	9.03	0-1	0
	25	12	9.14	9.06	9.11		0
	25	25	9.23	9.09	9.19		0
	50	0	9.15	9.08	9.11		0
16QAM	1	0	9.47	9.03	9.36	0-1	0
	1	25	9.19	9.15	9.36		0
	1	49	9.38	9.23	9.47		0
	25	0	9.04	8.95	9.05	0-2	0
	25	12	9.12	9.02	9.10		0
	25	25	9.24	9.08	9.18		0
	50	0	9.12	9.08	9.19		0
64QAM	1	0	9.34	9.16	9.22	0-2	0
	1	25	8.96	9.23	9.22		0
	1	49	9.24	9.26	9.27		0
	25	0	8.88	9.00	9.02	0-3	0
	25	12	8.96	9.06	9.10		0
	25	25	9.02	9.09	9.16		0
	50	0	8.99	9.06	9.12		0

Table 8-268
LTE Band 7 Conducted Powers Ant 2a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	9.46	9.01	9.34	0	0
	1	12	9.31	9.03	9.32		0
	1	24	9.25	9.06	9.49		0
	12	0	9.24	9.03	9.24	0-1	0
	12	6	9.15	8.98	9.28		0
	12	13	9.15	9.01	9.29		0
	25	0	9.12	9.04	9.28		0
16QAM	1	0	9.50	8.97	9.49	0-1	0
	1	12	9.44	9.10	9.57		0
	1	24	9.44	9.22	9.59		0
	12	0	9.26	8.97	9.24	0-2	0
	12	6	9.12	9.10	9.28		0
	12	13	9.08	9.04	9.31		0
	25	0	9.07	9.00	9.19		0
64QAM	1	0	9.46	9.27	9.48	0-2	0
	1	12	9.24	9.30	9.55		0
	1	24	9.35	9.35	9.69		0
	12	0	9.20	9.02	9.22	0-3	0
	12	6	9.10	8.99	9.26		0
	12	13	9.07	8.97	9.28		0
	25	0	9.04	9.01	9.26		0

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Table 8-269
LTE Band 7 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.21	12.16	11.83	0	0
	1	50	12.14	12.05	11.81		0
	1	99	12.28	**12.30**	12.03		0
	50	0	11.97	11.97	11.94	0-1	0
	50	25	12.11	11.99	11.92		0
	50	50	12.17	**12.27**	12.07		0
	100	0	12.16	12.05	11.94		0
16QAM	1	0	12.18	12.02	11.91	0-1	0
	1	50	12.03	11.92	11.85		0
	1	99	12.07	12.26	12.19		0
	50	0	11.75	11.66	11.63	0-2	0
	50	25	11.82	11.72	11.67		0
	50	50	12.11	11.88	11.75		0
	100	0	11.89	11.76	11.66		0
64QAM	1	0	12.30	12.01	12.00	0-2	0
	1	50	12.27	11.97	11.91		0
	1	99	12.27	12.17	11.94		0
	50	0	11.54	11.41	11.52	0-3	0
	50	25	11.70	11.48	11.53		0
	50	50	11.85	11.67	11.56		0
	100	0	11.70	11.55	11.52		0

Table 8-270
LTE Band 7 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.28	11.84	11.57	0	0
	1	36	12.05	11.96	11.87		0
	1	74	12.26	12.04	12.03		0
	36	0	12.14	11.84	11.75	0-1	0
	36	18	12.03	11.94	11.94		0
	36	37	12.15	12.06	12.03		0
	75	0	12.02	11.99	11.94		0
16QAM	1	0	12.15	11.91	11.47	0-1	0
	1	36	11.87	11.91	11.81		0
	1	74	12.16	11.90	11.86		0
	36	0	11.77	11.67	11.48	0-2	0
	36	18	11.68	11.77	11.63		0
	36	37	11.81	11.87	11.73		0
	75	0	11.67	11.81	11.63		0
64QAM	1	0	12.18	12.00	11.60	0-2	0
	1	36	11.94	12.11	11.78		0
	1	74	12.23	12.11	11.88		0
	36	0	11.73	11.65	11.45	0-3	0
	36	18	11.68	11.75	11.62		0
	36	37	11.79	11.86	11.74		0
	75	0	11.68	11.80	11.61		0

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Table 8-271
LTE Band 7 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.27	11.86	11.77	0	0
	1	25	12.10	11.97	11.83		0
	1	49	12.14	12.15	11.99		0
	25	0	12.14	11.84	11.94	0-1	0
	25	12	12.01	11.94	11.95		0
	25	25	11.99	12.11	12.08		0
	50	0	12.02	12.01	11.97		0
16QAM	1	0	12.30	11.81	11.63	0-1	0
	1	25	12.13	11.78	11.85		0
	1	49	12.21	12.25	11.95		0
	25	0	11.88	11.58	11.70	0-2	0
	25	12	11.70	11.74	11.74		0
	25	25	11.66	11.84	11.90		0
	50	0	11.72	11.75	11.76		0
64QAM	1	0	12.25	12.01	11.74	0-2	0
	1	25	12.04	11.92	11.79		0
	1	49	11.93	12.19	12.03		0
	25	0	11.87	11.62	11.69	0-3	0
	25	12	11.73	11.73	11.75		0
	25	25	11.71	11.84	11.91		0
	50	0	11.72	11.76	11.73		0

Table 8-272
LTE Band 7 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.29	11.79	11.97	0	0
	1	12	12.08	11.79	12.04		0
	1	24	11.88	11.91	12.10		0
	12	0	12.10	11.80	11.89	0-1	0
	12	6	11.99	11.76	11.92		0
	12	13	11.94	11.76	11.98		0
	25	0	12.02	11.75	11.92		0
16QAM	1	0	12.26	11.70	12.05	0-1	0
	1	12	12.28	11.91	12.29		0
	1	24	12.14	11.95	12.17		0
	12	0	12.03	11.61	11.89	0-2	0
	12	6	11.97	11.58	12.01		0
	12	13	11.93	11.75	11.97		0
	25	0	11.98	11.69	11.94		0
64QAM	1	0	12.26	11.77	11.96	0-2	0
	1	12	12.25	11.99	12.22		0
	1	24	12.17	11.91	12.04		0
	12	0	12.03	11.61	11.90	0-3	0
	12	6	12.00	11.60	12.00		0
	12	13	11.88	11.75	11.95		0
	25	0	11.95	11.72	11.96		0

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Table 8-273
LTE Band 7 Conducted Powers Ant 2b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**9.30**	9.06	8.77	0	0
	1	50	8.91	8.83	8.68		0
	1	99	9.04	8.96	8.93		0
	50	0	8.84	8.81	8.70	0-1	0
	50	25	8.86	8.82	8.71		0
	50	50	**9.02**	8.91	8.86		0
	100	0	8.91	8.90	8.75		0
16QAM	1	0	9.13	8.86	9.04	0-1	0
	1	50	9.00	8.62	8.86		0
	1	99	8.70	8.84	8.83		0
	50	0	8.71	8.34	8.41	0-2	0
	50	25	8.72	8.42	8.38		0
	50	50	8.77	8.51	8.44		0
	100	0	8.70	8.47	8.39		0
64QAM	1	0	9.11	8.85	8.75	0-2	0
	1	50	8.86	8.71	8.65		0
	1	99	8.60	8.91	8.53		0
	50	0	8.70	8.35	8.40	0-3	0
	50	25	8.71	8.44	8.37		0
	50	50	8.73	8.54	8.41		0
	100	0	8.70	8.46	8.35		0

Table 8-274
LTE Band 7 Conducted Powers Ant 2b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	8.87	8.76	8.67	0	0
	1	36	8.65	8.86	8.81		0
	1	74	8.82	8.96	8.77		0
	36	0	8.86	8.83	8.67	0-1	0
	36	18	8.75	8.94	8.82		0
	36	37	8.85	9.06	8.83		0
	75	0	8.76	8.98	8.80		0
16QAM	1	0	9.25	9.10	9.16	0-1	0
	1	36	9.02	9.29	9.21		0
	1	74	9.13	9.04	9.21		0
	36	0	8.82	8.80	8.65	0-2	0
	36	18	8.74	8.93	8.80		0
	36	37	8.84	9.06	8.80		0
	75	0	8.72	8.97	8.77		0
64QAM	1	0	9.20	9.15	9.07	0-2	0
	1	36	8.95	8.95	9.25		0
	1	74	9.22	9.26	9.21		0
	36	0	8.81	8.84	8.65	0-3	0
	36	18	8.72	8.96	8.78		0
	36	37	8.83	9.08	8.80		0
	75	0	8.70	8.98	8.77		0

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Table 8-275
LTE Band 7 Conducted Powers Ant 2b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	8.87	8.63	8.44	0	0
	1	25	8.60	8.66	8.57		0
	1	49	8.68	8.75	8.74		0
	25	0	8.71	8.62	8.56	0-1	0
	25	12	8.58	8.69	8.60		0
	25	25	8.54	8.81	8.73		0
	50	0	8.60	8.76	8.61		0
16QAM	1	0	9.30	9.18	8.73	0-1	0
	1	25	8.92	9.20	8.87		0
	1	49	9.01	9.29	9.06		0
	25	0	8.67	8.64	8.53	0-2	0
	25	12	8.54	8.66	8.60		0
	25	25	8.49	8.79	8.73		0
	50	0	8.54	8.74	8.58		0
64QAM	1	0	9.29	9.14	8.64	0-2	0
	1	25	9.05	9.24	8.79		0
	1	49	9.13	9.26	9.09		0
	25	0	8.69	8.57	8.55	0-3	0
	25	12	8.50	8.67	8.60		0
	25	25	8.54	8.80	8.72		0
	50	0	8.52	8.74	8.61		0

Table 8-276
LTE Band 7 Conducted Powers Ant 2b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	8.58	8.49	8.30	0	0
	1	12	8.45	8.54	8.48		0
	1	24	8.30	8.62	8.51		0
	12	0	8.59	8.61	8.48	0-1	0
	12	6	8.48	8.54	8.54		0
	12	13	8.40	8.63	8.54		0
	25	0	8.50	8.68	8.55		0
16QAM	1	0	8.77	8.85	8.74	0-1	0
	1	12	8.71	8.91	8.86		0
	1	24	8.56	9.13	8.81		0
	12	0	8.53	8.62	8.45	0-2	0
	12	6	8.45	8.64	8.61		0
	12	13	8.38	8.63	8.57		0
	25	0	8.45	8.70	8.48		0
64QAM	1	0	8.83	8.81	8.56	0-2	0
	1	12	8.72	8.88	8.57		0
	1	24	8.44	9.04	8.82		0
	12	0	8.63	8.74	8.41	0-3	0
	12	6	8.53	8.74	8.56		0
	12	13	8.42	8.76	8.55		0
	25	0	8.47	8.74	8.51		0

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Table 8-277
LTE Band 7 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.20	**12.50**	12.28	0	0
	1	50	12.21	12.47	11.98		0
	1	99	12.37	12.49	12.05		0
	50	0	12.18	**12.43**	11.90	0-1	0
	50	25	12.23	12.42	11.82		0
	50	50	12.33	12.42	11.80		0
	100	0	12.32	12.41	11.81		0
16QAM	1	0	12.26	12.50	12.42	0-1	0
	1	50	12.23	12.49	11.92		0
	1	99	12.50	12.47	11.97		0
	50	0	12.01	12.34	11.67	0-2	0
	50	25	11.91	12.25	11.61		0
	50	50	11.96	12.23	11.63		0
	100	0	11.97	12.22	11.62		0
64QAM	1	0	12.20	12.50	12.49	0-2	0
	1	50	12.40	12.44	12.37		0
	1	99	12.50	12.35	12.41		0
	50	0	11.80	11.80	11.78	0-3	0
	50	25	11.95	11.86	11.64		0
	50	50	12.00	11.85	11.70		0
	100	0	11.96	11.89	11.66		0

Table 8-278
LTE Band 7 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.15	12.15	11.74	0	0
	1	36	12.25	12.15	11.68		0
	1	74	12.41	12.15	11.82		0
	36	0	12.04	12.20	11.69	0-1	0
	36	18	12.13	12.18	11.78		0
	36	37	12.20	12.18	11.86		0
	75	0	12.14	12.18	11.78		0
16QAM	1	0	12.16	12.24	11.93	0-1	0
	1	36	12.23	12.37	11.78		0
	1	74	12.41	12.33	11.93		0
	36	0	12.01	12.19	11.63	0-2	0
	36	18	12.12	12.18	11.75		0
	36	37	12.17	12.18	11.82		0
	75	0	12.10	12.17	11.74		0
64QAM	1	0	11.99	12.36	12.15	0-2	0
	1	36	12.10	12.41	11.98		0
	1	74	12.48	12.23	12.08		0
	36	0	12.01	12.18	11.68	0-3	0
	36	18	12.14	12.18	11.78		0
	36	37	12.21	12.20	11.88		0
	75	0	12.11	12.17	11.77		0

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Table 8-279
LTE Band 7 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.06	12.14	11.68	0	0
	1	25	12.08	12.10	11.61		0
	1	49	12.18	12.16	11.73		0
	25	0	12.14	12.15	11.69	0-1	0
	25	12	12.12	12.11	11.70		0
	25	25	12.17	12.18	11.81		0
	50	0	12.14	12.13	11.71		0
16QAM	1	0	12.19	12.30	11.88	0-1	0
	1	25	12.24	12.22	11.78		0
	1	49	12.34	12.28	11.93		0
	25	0	12.11	12.15	11.66	0-2	0
	25	12	12.09	12.10	11.65		0
	25	25	12.16	12.17	11.81		0
	50	0	12.15	12.13	11.67		0
64QAM	1	0	12.24	12.26	11.74	0-2	0
	1	25	12.28	12.29	11.68		0
	1	49	12.35	12.42	12.25		0
	25	0	12.14	12.08	11.68	0-3	0
	25	12	12.12	12.06	11.67		0
	25	25	12.20	12.13	11.77		0
	50	0	12.17	12.12	11.69		0

Table 8-280
LTE Band 7 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.95	12.18	11.54	0	0
	1	12	11.97	12.13	11.63		0
	1	24	12.01	12.24	11.71		0
	12	0	11.96	12.11	11.81	0-1	0
	12	6	11.98	12.12	11.85		0
	12	13	11.99	12.12	11.85		0
	25	0	12.02	12.14	11.84		0
16QAM	1	0	12.14	12.40	11.79	0-1	0
	1	12	12.23	12.30	11.85		0
	1	24	12.22	12.28	11.88		0
	12	0	11.94	12.19	11.81	0-2	0
	12	6	11.95	12.19	11.83		0
	12	13	11.92	12.20	11.82		0
	25	0	12.03	12.09	11.81		0
64QAM	1	0	12.18	12.50	12.01	0-2	0
	1	12	12.11	12.44	12.08		0
	1	24	12.24	12.46	12.10		0
	12	0	11.99	12.09	11.79	0-3	0
	12	6	11.99	12.09	11.82		0
	12	13	11.97	12.12	11.82		0
	25	0	11.97	12.10	11.78		0

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Table 8-281
LTE Band 7 Conducted Powers Ant 4a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	9.24	**9.45**	9.15	0	0
	1	50	8.51	9.37	8.51		0
	1	99	8.71	9.11	8.90		0
	50	0	8.96	9.15	8.90	0-1	0
	50	25	8.62	**9.23**	8.69		0
	50	50	8.66	9.18	8.82		0
	100	0	8.68	9.22	8.73		0
16QAM	1	0	9.08	9.38	9.20	0-1	0
	1	50	8.93	9.37	8.50		0
	1	99	9.12	9.18	8.51		0
	50	0	8.83	9.14	8.78	0-2	0
	50	25	9.11	9.12	8.51		0
	50	50	9.06	9.09	8.52		0
	100	0	9.07	9.09	8.54		0
64QAM	1	0	9.17	9.33	9.48	0-2	0
	1	50	8.93	9.11	8.67		0
	1	99	9.15	9.05	8.79		0
	50	0	9.00	9.06	8.73	0-3	0
	50	25	9.08	9.05	8.52		0
	50	50	9.05	9.04	8.56		0
	100	0	9.07	9.00	8.56		0

Table 8-282
LTE Band 7 Conducted Powers Ant 4a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	8.90	9.10	8.71	0	0
	1	36	8.86	9.21	8.60		0
	1	74	8.89	9.12	8.55		0
	36	0	8.72	9.20	8.58	0-1	0
	36	18	8.74	9.23	8.68		0
	36	37	8.75	9.20	8.68		0
	75	0	8.80	9.19	8.63		0
16QAM	1	0	9.08	9.29	8.78	0-1	0
	1	36	8.80	9.16	8.73		0
	1	74	8.83	9.15	8.54		0
	36	0	8.69	9.03	8.53	0-2	0
	36	18	8.70	9.02	8.63		0
	36	37	8.70	9.01	8.62		0
	75	0	8.72	9.03	8.60		0
64QAM	1	0	8.82	9.17	9.04	0-2	0
	1	36	8.73	9.30	8.91		0
	1	74	8.91	9.19	8.89		0
	36	0	8.65	9.05	8.60	0-3	0
	36	18	8.72	9.07	8.65		0
	36	37	8.70	9.02	8.68		0
	75	0	8.70	9.02	8.62		0

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Table 8-283
LTE Band 7 Conducted Powers Ant 4a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	8.78	9.02	8.56	0	0
	1	25	8.67	9.02	8.52		0
	1	49	8.90	9.13	8.56		0
	25	0	8.96	9.07	8.50	0-1	0
	25	12	8.92	9.09	8.58		0
	25	25	8.92	9.13	8.53		0
	50	0	8.91	9.09	8.53		0
16QAM	1	0	9.02	9.24	8.78	0-1	0
	1	25	9.03	9.05	8.50		0
	1	49	8.98	9.31	8.54		0
	25	0	8.94	9.06	8.59	0-2	0
	25	12	8.83	9.07	8.59		0
	25	25	8.91	9.11	8.53		0
	50	0	8.88	9.09	8.51		0
64QAM	1	0	9.12	9.35	8.90	0-2	0
	1	25	8.89	9.39	8.67		0
	1	49	8.86	9.31	8.83		0
	25	0	8.79	9.02	8.53	0-3	0
	25	12	8.70	9.08	8.51		0
	25	25	8.75	9.07	8.53		0
	50	0	8.73	9.07	8.56		0

Table 8-284
LTE Band 7 Conducted Powers Ant 4a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	8.69	8.99	8.51	0	0
	1	12	8.79	9.03	8.60		0
	1	24	8.78	9.11	8.58		0
	12	0	8.73	8.90	8.60	0-1	0
	12	6	8.77	8.92	8.60		0
	12	13	8.74	9.01	8.59		0
	25	0	8.80	8.95	8.60		0
16QAM	1	0	8.92	9.12	8.71	0-1	0
	1	12	9.01	9.10	8.65		0
	1	24	8.95	9.30	8.76		0
	12	0	8.67	8.99	8.65	0-2	0
	12	6	8.72	8.99	8.57		0
	12	13	8.70	8.98	8.55		0
	25	0	8.78	8.92	8.73		0
64QAM	1	0	8.76	9.24	8.69	0-2	0
	1	12	8.87	9.16	8.72		0
	1	24	8.90	9.22	8.78		0
	12	0	8.77	8.90	8.60	0-3	0
	12	6	8.78	8.87	8.58		0
	12	13	8.76	8.96	8.53		0
	25	0	8.78	8.91	8.54		0

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Table 8-285
LTE Band 7 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**13.23**	13.07	13.21	0	0
	1	50	13.20	13.11	13.19		0
	1	99	13.19	13.13	13.10		0
	50	0	13.14	**13.22**	13.07	0-1	0
	50	25	13.15	13.21	13.14		0
	50	50	13.18	13.19	13.02		0
	100	0	13.17	13.17	13.13		0
16QAM	1	0	13.04	13.14	13.15	0-1	0
	1	50	13.02	13.21	13.24		0
	1	99	13.14	13.29	13.21		0
	50	0	12.88	13.04	12.84	0-2	0
	50	25	12.82	12.95	12.83		0
	50	50	12.87	12.93	12.84		0
	100	0	12.86	12.97	12.86		0
64QAM	1	0	13.20	13.11	12.86	0-2	0
	1	50	13.23	13.04	12.90		0
	1	99	13.14	12.87	12.98		0
	50	0	13.17	13.06	12.75	0-3	0
	50	25	13.14	13.01	12.82		0
	50	50	13.19	12.86	12.87		0
	100	0	13.12	13.01	12.86		0

Table 8-286
LTE Band 7 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.20	13.10	13.07	0	0
	1	36	13.28	13.30	13.13		0
	1	74	13.25	13.30	13.08		0
	36	0	13.26	13.26	13.21	0-1	0
	36	18	13.26	13.19	13.19		0
	36	37	13.19	13.15	13.23		0
	75	0	13.20	13.30	13.13		0
16QAM	1	0	13.29	13.20	12.84	0-1	0
	1	36	13.24	13.27	12.95		0
	1	74	13.28	13.10	12.98		0
	36	0	13.09	13.07	12.94	0-2	0
	36	18	13.08	13.08	12.89		0
	36	37	13.03	12.90	12.92		0
	75	0	13.04	13.01	12.88		0
64QAM	1	0	13.30	13.15	13.13	0-2	0
	1	36	13.27	13.14	13.16		0
	1	74	13.27	12.98	13.25		0
	36	0	13.20	13.06	12.98	0-3	0
	36	18	13.16	13.09	12.93		0
	36	37	13.11	12.91	12.95		0
	75	0	13.07	13.02	12.92		0

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Table 8-287
LTE Band 7 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.20	13.25	13.16	0	0
	1	25	13.30	13.28	13.16		0
	1	49	13.19	13.30	13.27		0
	25	0	13.25	13.30	13.23	0-1	0
	25	12	13.25	13.27	13.21		0
	25	25	13.11	13.22	13.30		0
	50	0	13.24	13.19	13.25		0
16QAM	1	0	13.21	13.29	13.09	0-1	0
	1	25	13.24	13.18	13.26		0
	1	49	13.29	13.10	13.14		0
	25	0	13.18	13.12	12.98	0-2	0
	25	12	13.18	13.09	13.02		0
	25	25	13.10	12.99	13.18		0
	50	0	13.15	13.07	13.04		0
64QAM	1	0	13.26	13.23	13.25	0-2	0
	1	25	13.30	13.24	13.25		0
	1	49	13.24	13.14	13.30		0
	25	0	13.09	13.12	12.99	0-3	0
	25	12	13.14	13.11	13.07		0
	25	25	13.13	13.01	13.25		0
	50	0	13.16	13.07	13.05		0

Table 8-288
LTE Band 7 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.21	13.30	13.16	0	0
	1	12	13.26	13.20	13.24		0
	1	24	13.30	13.22	13.25		0
	12	0	13.15	13.25	13.25	0-1	0
	12	6	13.17	13.25	13.27		0
	12	13	13.20	13.29	13.24		0
	25	0	13.17	13.30	13.30		0
16QAM	1	0	13.19	13.19	13.19	0-1	0
	1	12	13.23	13.03	13.11		0
	1	24	13.18	13.12	12.95		0
	12	0	13.09	13.03	13.03	0-2	0
	12	6	13.05	13.09	13.10		0
	12	13	13.15	13.02	13.06		0
	25	0	13.02	13.02	13.07		0
64QAM	1	0	13.30	13.14	13.30	0-2	0
	1	12	13.10	13.13	13.30		0
	1	24	13.30	13.01	13.10		0
	12	0	13.06	13.15	12.98	0-3	0
	12	6	13.05	13.06	13.10		0
	12	13	13.07	13.03	13.03		0
	25	0	12.94	13.00	13.07		0

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Table 8-289
LTE Band 7 Conducted Powers Ant 4b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**10.19**	9.85	9.68	0	0
	1	50	10.16	10.04	9.80		0
	1	99	10.04	10.16	9.94		0
	50	0	**10.13**	9.92	9.73	0-1	0
	50	25	10.10	9.95	9.85		0
	50	50	10.11	9.96	9.90		0
	100	0	10.07	9.94	9.87		0
16QAM	1	0	10.21	9.88	9.70	0-1	0
	1	50	10.24	9.98	9.81		0
	1	99	9.78	9.74	9.82		0
	50	0	9.96	9.74	9.51	0-2	0
	50	25	9.86	9.72	9.58		0
	50	50	9.74	9.61	9.65		0
	100	0	9.76	9.64	9.56		0
64QAM	1	0	10.28	9.82	9.86	0-2	0
	1	50	10.13	9.94	9.97		0
	1	99	9.68	9.77	10.22		0
	50	0	9.89	9.75	9.45	0-3	0
	50	25	9.84	9.73	9.55		0
	50	50	9.73	9.57	9.59		0
	100	0	9.74	9.69	9.58		0

Table 8-290
LTE Band 7 Conducted Powers Ant 4b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.19	10.00	9.85	0	0
	1	36	10.09	10.06	9.92		0
	1	74	9.83	9.80	9.72		0
	36	0	10.05	10.10	10.00	0-1	0
	36	18	9.91	10.11	9.96		0
	36	37	9.79	9.93	9.93		0
	75	0	9.88	10.02	9.90		0
16QAM	1	0	10.30	10.26	10.10	0-1	0
	1	36	10.11	10.13	9.92		0
	1	74	10.04	9.97	9.88		0
	36	0	9.87	10.08	9.96	0-2	0
	36	18	9.79	10.15	9.94		0
	36	37	9.74	9.88	9.87		0
	75	0	9.72	9.99	9.89		0
64QAM	1	0	10.02	10.05	9.93	0-2	0
	1	36	10.08	10.28	10.08		0
	1	74	9.94	9.95	9.99		0
	36	0	10.00	9.94	9.89	0-3	0
	36	18	9.89	9.96	9.93		0
	36	37	9.78	9.84	9.89		0
	75	0	9.85	9.94	9.86		0

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Table 8-291
LTE Band 7 Conducted Powers Ant 4b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.16	10.04	9.91	0	0
	1	25	10.11	10.09	10.11		0
	1	49	9.89	10.00	10.10		0
	25	0	10.09	10.18	10.08	0-1	0
	25	12	10.04	10.21	10.08		0
	25	25	9.92	10.06	10.17		0
	50	0	10.06	10.11	10.07		0
16QAM	1	0	10.27	10.28	10.14	0-1	0
	1	25	10.12	10.22	10.29		0
	1	49	9.92	10.18	10.24		0
	25	0	10.11	10.16	9.92	0-2	0
	25	12	10.04	10.18	10.05		0
	25	25	9.87	10.06	10.09		0
	50	0	10.05	10.12	10.00		0
64QAM	1	0	10.28	10.26	10.09	0-2	0
	1	25	10.20	10.25	10.24		0
	1	49	10.05	10.24	10.25		0
	25	0	10.07	10.20	9.94	0-3	0
	25	12	10.01	10.20	10.01		0
	25	25	9.88	9.97	10.08		0
	50	0	10.06	10.11	10.02		0

Table 8-292
LTE Band 7 Conducted Powers Ant 4b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	9.96	10.29	10.03	0	0
	1	12	10.14	10.20	10.08		0
	1	24	10.22	10.16	10.07		0
	12	0	10.04	10.16	10.15	0-1	0
	12	6	10.09	10.15	10.20		0
	12	13	10.10	10.10	10.12		0
	25	0	10.09	10.12	10.19		0
16QAM	1	0	10.19	10.24	10.17	0-1	0
	1	12	10.29	10.27	10.23		0
	1	24	10.18	10.18	10.26		0
	12	0	10.07	10.19	9.90	0-2	0
	12	6	10.04	10.20	10.05		0
	12	13	10.03	10.07	10.10		0
	25	0	9.99	10.06	9.99		0
64QAM	1	0	10.07	10.26	10.25	0-2	0
	1	12	10.17	10.30	10.25		0
	1	24	10.15	10.25	10.24		0
	12	0	9.98	10.13	9.93	0-3	0
	12	6	9.95	10.14	9.98		0
	12	13	10.04	10.01	10.02		0
	25	0	10.04	10.07	10.07		0

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8.3.13 LTE Band 41

Table 8-293
LTE Band 41 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.99	13.70	13.95	13.73	14.00	0	0
	1	50	13.96	13.77	**14.01**	13.72	13.90		0
	1	99	13.80	13.72	13.96	13.70	13.84		0
	50	0	14.01	13.76	13.98	13.73	14.04	0-1	0
	50	25	13.90	13.78	**14.05**	13.72	13.94		0
	50	50	13.96	13.79	13.96	13.75	13.92		0
	100	0	13.83	13.78	13.97	13.74	13.92		0
16QAM	1	0	14.46	14.07	14.06	13.88	13.80	0-1	0
	1	50	14.11	13.95	14.09	13.87	13.76		0
	1	99	14.09	14.00	14.10	13.91	13.70		0
	50	0	14.38	14.11	14.14	13.74	13.84	0-2	0
	50	25	14.15	14.10	14.14	13.73	13.75		0
	50	50	14.16	14.05	14.17	13.72	13.76		0
	100	0	14.11	14.12	14.13	13.75	13.72		0
64QAM	1	0	14.45	14.09	14.20	13.82	13.89	0-2	0
	1	50	14.27	14.11	14.10	13.78	13.85		0
	1	99	14.21	14.01	14.04	13.86	13.80		0
	50	0	14.35	14.08	14.17	13.70	13.85	0-3	0
	50	25	14.12	14.10	14.14	13.70	13.76		0
	50	50	14.13	14.05	14.15	13.71	13.74		0
	100	0	14.07	14.08	14.17	13.70	13.73		0

Table 8-294
LTE Band 41 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.13	13.72	13.76	13.71	13.82	0	0
	1	36	13.86	13.84	13.80	13.80	13.73		0
	1	74	13.78	13.77	13.73	13.71	13.71		0
	36	0	13.91	13.76	13.76	13.70	13.75	0-1	0
	36	18	13.84	13.79	13.78	13.76	13.70		0
	36	37	13.85	13.70	13.76	13.73	13.72		0
	75	0	13.72	13.77	13.77	13.72	13.73		0
16QAM	1	0	14.42	14.15	14.24	14.03	14.17	0-1	0
	1	36	14.41	14.18	14.34	13.95	14.21		0
	1	74	14.40	13.97	14.30	13.96	14.17		0
	36	0	14.30	14.23	14.30	13.96	14.21	0-2	0
	36	18	14.31	14.28	14.29	13.99	14.12		0
	36	37	14.22	14.24	14.29	13.98	14.00		0
	75	0	14.24	14.25	14.20	14.00	14.09		0
64QAM	1	0	14.44	14.07	14.29	13.89	14.26	0-2	0
	1	36	14.42	14.07	14.43	13.93	14.12		0
	1	74	14.36	14.07	14.31	14.00	14.10		0
	36	0	14.29	14.22	14.29	13.98	14.22	0-3	0
	36	18	14.27	14.25	14.30	14.01	14.10		0
	36	37	14.23	14.22	14.24	13.98	13.98		0
	75	0	14.21	14.24	14.21	13.99	14.09		0

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Table 8-295
LTE Band 41 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.43	14.17	14.40	13.98	14.09	0	0
	1	25	14.42	14.17	14.37	13.93	14.18		0
	1	49	14.23	14.15	14.41	13.99	14.18		0
	25	0	14.17	14.16	14.27	13.95	14.13	0-1	0
	25	12	14.26	14.21	14.26	13.95	14.08		0
	25	25	14.31	14.21	14.26	13.97	14.05		0
	50	0	14.27	14.26	14.28	13.97	14.11		0
16QAM	1	0	14.41	14.07	14.32	13.98	14.21	0-1	0
	1	25	14.30	14.10	14.22	13.91	14.19		0
	1	49	14.33	14.01	14.32	13.90	14.07		0
	25	0	14.17	14.22	14.28	13.95	14.13	0-2	0
	25	12	14.26	14.21	14.28	13.96	14.06		0
	25	25	14.32	14.20	14.26	13.99	14.05		0
	50	0	14.25	14.25	14.30	13.98	14.11		0
64QAM	1	0	14.40	14.03	14.36	14.00	14.29	0-2	0
	1	25	14.39	13.97	14.29	13.89	13.96		0
	1	49	14.37	14.13	14.31	14.15	14.13		0
	25	0	14.15	14.25	14.28	14.01	14.17	0-3	0
	25	12	14.24	14.24	14.25	13.98	14.10		0
	25	25	14.28	14.23	14.26	14.04	14.04		0
	50	0	14.21	14.27	14.29	13.96	14.10		0

Table 8-296
LTE Band 41 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.76	13.70	13.70	13.84	13.72	0	0
	1	12	13.76	13.72	13.74	13.78	13.70		0
	1	24	13.79	13.70	13.72	13.86	13.78		0
	12	0	13.72	13.73	13.79	13.82	13.75	0-1	0
	12	6	13.78	13.72	13.79	13.80	13.71		0
	12	13	13.79	13.75	13.70	13.80	13.72		0
	25	0	13.71	13.73	13.70	13.83	13.72		0
16QAM	1	0	14.30	14.17	14.27	13.96	14.02	0-1	0
	1	12	14.23	14.07	14.30	14.05	13.98		0
	1	24	14.30	14.16	14.26	13.93	14.05		0
	12	0	14.19	14.19	14.26	13.99	14.08	0-2	0
	12	6	14.23	14.18	14.21	13.95	13.97		0
	12	13	14.21	14.15	14.25	13.95	13.99		0
	25	0	14.26	14.20	14.28	13.99	14.04		0
64QAM	1	0	14.20	14.03	14.29	13.94	14.08	0-2	0
	1	12	14.27	14.31	14.28	13.84	13.97		0
	1	24	14.29	14.16	14.30	13.99	14.01		0
	12	0	14.16	14.18	14.25	14.00	14.07	0-3	0
	12	6	14.27	14.19	14.22	13.95	14.00		0
	12	13	14.24	14.16	14.24	13.95	13.99		0
	25	0	14.26	14.19	14.24	13.93	14.03		0

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Table 8-297
LTE Band 41 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.12	13.95	**14.17**	13.77	13.96	0	0
	1	50	14.15	13.92	14.16	13.65	13.80		0
	1	99	14.16	13.75	14.02	13.73	13.87		0
	50	0	14.08	13.83	**14.09**	13.63	13.82	0-1	0
	50	25	14.06	13.82	14.08	13.58	13.72		0
	50	50	14.02	13.73	14.05	13.57	13.81		0
	100	0	14.01	13.82	14.07	13.55	13.73		0
16QAM	1	0	13.95	13.72	14.00	13.87	13.70	0-1	0
	1	50	13.93	13.71	14.15	14.00	13.68		0
	1	99	13.85	13.50	13.96	13.82	13.81		0
	50	0	13.85	13.71	13.85	13.65	13.62	0-2	0
	50	25	13.89	13.71	13.91	13.75	13.55		0
	50	50	13.86	13.63	13.89	13.61	13.53		0
	100	0	13.84	13.70	13.86	13.73	13.52		0
64QAM	1	0	14.15	14.04	14.07	13.82	14.04	0-2	0
	1	50	14.18	13.95	14.15	13.64	13.86		0
	1	99	14.08	13.80	14.11	13.62	13.87		0
	50	0	14.08	13.85	14.03	13.58	13.82	0-3	0
	50	25	14.10	13.93	14.05	13.53	13.72		0
	50	50	14.06	13.80	14.04	13.54	13.75		0
	100	0	14.04	13.87	14.03	13.54	13.73		0

Table 8-298
LTE Band 41 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.08	13.96	13.79	13.60	13.56	0	0
	1	36	14.04	13.91	13.94	13.64	13.52		0
	1	74	13.90	13.70	13.87	13.62	13.54		0
	36	0	14.11	13.98	13.97	13.60	13.59	0-1	1
	36	18	14.10	13.93	14.02	13.63	13.61		1
	36	37	14.08	13.85	14.03	13.65	13.63		1
	75	0	14.07	13.89	13.99	13.61	13.57		1
16QAM	1	0	14.19	14.02	13.95	13.51	13.80	0-1	1
	1	36	14.11	13.93	14.11	13.57	13.69		1
	1	74	14.04	13.93	14.02	13.52	13.68		1
	36	0	14.10	13.96	13.96	13.61	13.62	0-2	2
	36	18	14.09	13.96	14.03	13.63	13.62		2
	36	37	14.08	13.87	14.06	13.64	13.65		2
	75	0	14.06	13.89	14.03	13.60	13.58		2
64QAM	1	0	14.13	13.83	14.00	13.53	13.70	0-2	2
	1	36	14.14	13.89	14.12	13.68	13.69		2
	1	74	13.87	13.67	13.95	13.46	13.75		2
	36	0	14.12	13.97	13.99	13.59	13.59	0-3	3
	36	18	14.08	13.92	14.02	13.62	13.59		3
	36	37	14.10	13.87	14.07	13.66	13.64		3
	75	0	14.04	13.91	13.99	13.59	13.60		3

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Table 8-299
LTE Band 41 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.12	14.00	13.88	13.68	13.55	0	0
	1	25	13.99	13.91	13.92	13.65	13.48		0
	1	49	14.04	13.86	13.94	13.73	13.52		0
	25	0	14.12	13.91	13.97	13.60	13.57	0-1	1
	25	12	14.06	13.89	14.00	13.57	13.57		1
	25	25	14.10	13.86	14.02	13.66	13.63		1
	50	0	14.08	13.90	14.00	13.60	13.58		1
16QAM	1	0	14.20	14.13	14.07	13.54	13.64	0-1	1
	1	25	14.12	13.97	14.11	13.58	13.61		1
	1	49	14.14	13.82	14.13	13.63	13.68		1
	25	0	14.12	13.86	13.95	13.62	13.58	0-2	2
	25	12	14.05	13.86	13.95	13.60	13.55		2
	25	25	14.05	13.90	14.04	13.69	13.62		2
	50	0	14.10	13.89	14.01	13.61	13.60		2
64QAM	1	0	14.12	14.03	13.88	13.89	13.68	0-2	2
	1	25	14.16	13.88	13.96	13.85	13.48		2
	1	49	14.10	13.75	14.10	13.90	13.64		2
	25	0	14.13	13.89	13.95	13.62	13.56	0-3	3
	25	12	14.11	13.90	13.99	13.55	13.59		3
	25	25	14.10	13.85	14.02	13.67	13.67		3
	50	0	14.04	13.89	14.01	13.61	13.58		3

Table 8-300
LTE Band 41 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.01	13.87	13.86	13.66	13.42	0	0
	1	12	13.92	13.81	13.88	13.62	13.39		0
	1	24	13.96	13.82	13.90	13.73	13.43		0
	12	0	14.01	13.84	13.94	13.53	13.47	0-1	1
	12	6	14.01	13.83	13.94	13.54	13.49		1
	12	13	14.01	13.80	13.97	13.55	13.48		1
	25	0	14.03	13.86	13.97	13.56	13.49		1
16QAM	1	0	14.12	13.79	13.99	13.67	13.55	0-1	1
	1	12	14.15	13.87	13.90	13.51	13.44		1
	1	24	14.11	13.88	14.12	13.69	13.50		1
	12	0	14.03	13.85	13.94	13.60	13.49	0-2	2
	12	6	13.99	13.85	13.94	13.55	13.49		2
	12	13	14.03	13.83	13.98	13.53	13.48		2
	25	0	14.05	13.82	13.97	13.55	13.47		2
64QAM	1	0	14.09	13.99	14.15	13.57	13.54	0-2	2
	1	12	14.02	13.80	14.14	13.54	13.62		2
	1	24	14.08	13.88	14.07	13.64	13.81		2
	12	0	13.98	13.85	13.95	13.58	13.49	0-3	3
	12	6	14.04	13.80	14.00	13.53	13.49		3
	12	13	14.06	13.80	13.95	13.60	13.46		3
	25	0	14.02	13.89	13.96	13.59	13.49		3

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Table 8-301
LTE Band 41 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.98	13.92	13.68	13.65	13.35	0	0
	1	50	14.02	**14.04**	13.79	13.49	13.51		0
	1	99	13.92	13.78	13.83	13.23	13.52		0
	50	0	13.91	13.90	13.76	13.67	13.39	0-1	0
	50	25	13.99	**14.01**	13.79	13.49	13.46		0
	50	50	13.94	13.82	13.80	13.32	13.41		0
	100	0	13.99	13.86	13.77	13.48	13.42		0
16QAM	1	0	13.74	14.03	13.59	13.70	13.21	0-1	0
	1	50	14.08	13.98	13.62	13.43	13.39		0
	1	99	13.96	13.79	13.71	13.22	13.38		0
	50	0	14.04	13.93	13.75	13.59	13.35	0-2	0
	50	25	14.07	13.88	13.80	13.51	13.47		0
	50	50	14.01	13.85	13.77	13.38	13.42		0
	100	0	14.09	13.88	13.78	13.53	13.47		0
64QAM	1	0	13.89	13.84	13.83	13.58	13.46	0-2	0
	1	50	14.01	13.92	13.92	13.66	13.57		0
	1	99	13.96	13.66	13.94	13.21	13.65		0
	50	0	13.97	14.02	13.78	13.57	13.39	0-3	0
	50	25	14.04	13.96	13.80	13.53	13.46		0
	50	50	14.03	13.87	13.79	13.38	13.43		0
	100	0	14.04	13.90	13.79	13.48	13.47		0

Table 8-302
LTE Band 41 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.15	14.04	14.07	13.82	13.60	0	0
	1	36	14.11	14.04	14.12	13.83	13.75		0
	1	74	14.11	13.95	14.05	13.57	13.72		0
	36	0	14.07	14.04	14.05	13.75	13.61	0-1	0
	36	18	14.06	14.02	14.07	13.77	13.72		0
	36	37	14.08	13.99	14.05	13.60	13.71		0
	75	0	14.02	14.01	14.04	13.74	13.69		0
16QAM	1	0	14.02	13.80	13.93	13.73	13.35	0-1	0
	1	36	14.07	14.04	13.88	13.55	13.70		0
	1	74	13.96	13.82	13.90	13.42	13.56		0
	36	0	14.09	14.04	14.07	13.80	13.65	0-2	0
	36	18	14.07	14.06	14.10	13.79	13.75		0
	36	37	14.08	14.02	14.05	13.62	13.69		0
	75	0	14.04	14.00	14.05	13.75	13.70		0
64QAM	1	0	14.06	13.93	13.96	13.77	13.55	0-2	0
	1	36	14.10	13.99	14.02	13.81	13.56		0
	1	74	14.07	13.93	13.93	13.39	13.68		0
	36	0	14.06	14.03	14.06	13.78	13.64	0-3	0
	36	18	14.04	14.02	14.08	13.76	13.71		0
	36	37	14.06	13.99	14.07	13.63	13.69		0
	75	0	14.01	14.03	14.05	13.73	13.68		0

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Table 8-303
LTE Band 41 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.11	13.98	14.13	13.83	13.54	0	0
	1	25	14.09	14.04	14.10	13.56	13.57		0
	1	49	14.14	14.01	14.14	13.45	13.64		0
	25	0	14.10	14.00	14.04	13.54	13.56	0-1	0
	25	12	14.04	13.98	14.05	13.54	13.54		0
	25	25	14.10	13.99	14.03	13.44	13.57		0
	50	0	14.05	14.00	14.05	13.58	13.57		0
16QAM	1	0	14.15	13.99	13.87	13.64	13.47	0-1	0
	1	25	13.93	13.78	14.00	13.59	13.47		0
	1	49	14.03	13.91	13.83	13.45	13.52		0
	25	0	14.08	14.00	14.01	13.71	13.66	0-2	0
	25	12	14.04	13.98	14.03	13.71	13.63		0
	25	25	14.08	13.99	13.96	13.57	13.63		0
	50	0	14.04	13.99	14.05	13.73	13.69		0
64QAM	1	0	14.06	13.92	14.12	13.85	13.57	0-2	0
	1	25	13.97	13.98	13.87	13.57	13.63		0
	1	49	14.10	13.88	14.06	13.59	13.66		0
	25	0	14.11	13.96	14.03	13.79	13.67	0-3	0
	25	12	14.05	14.02	14.01	13.69	13.71		0
	25	25	14.06	14.00	13.99	13.61	13.70		0
	50	0	14.02	13.98	14.06	13.76	13.68		0

Table 8-304
LTE Band 41 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.00	13.84	13.96	13.63	13.53	0	0
	1	12	13.95	13.93	13.91	13.61	13.59		0
	1	24	14.03	13.95	13.94	13.49	13.61		0
	12	0	13.88	13.86	13.87	13.57	13.51	0-1	0
	12	6	13.92	13.86	13.86	13.55	13.52		0
	12	13	13.94	13.88	13.88	13.54	13.53		0
	25	0	13.95	13.87	13.89	13.56	13.52		0
16QAM	1	0	13.96	13.94	14.00	13.59	13.67	0-1	0
	1	12	13.91	13.95	13.91	13.67	13.52		0
	1	24	14.05	13.91	13.92	13.38	13.63		0
	12	0	14.01	13.95	13.99	13.72	13.68	0-2	0
	12	6	14.01	13.96	13.99	13.70	13.60		0
	12	13	13.98	13.91	13.98	13.69	13.59		0
	25	0	14.01	13.94	13.96	13.70	13.67		0
64QAM	1	0	14.10	14.00	14.07	13.90	13.65	0-2	0
	1	12	14.02	13.90	13.91	13.97	13.74		0
	1	24	14.08	14.06	14.08	13.63	13.77		0
	12	0	14.05	14.03	13.95	13.78	13.63	0-3	0
	12	6	14.01	13.89	14.02	13.72	13.66		0
	12	13	14.03	13.94	14.03	13.75	13.60		0
	25	0	14.04	13.93	13.96	13.69	13.66		0

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Table 8-305
LTE Band 41 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.81	15.81	**15.90**	15.59	15.84	0	0
	1	50	15.82	15.72	15.81	15.63	15.71		0
	1	99	15.83	15.74	15.84	15.64	15.72		0
	50	0	15.84	15.74	**15.85**	15.66	15.84	0-1	0
	50	25	15.82	15.71	15.83	15.68	15.73		0
	50	50	15.80	15.65	15.81	15.72	15.76		0
	100	0	15.81	15.66	15.83	15.69	15.71		0
16QAM	1	0	15.81	15.74	15.90	15.68	15.81	0-1	0
	1	50	15.83	15.55	15.88	15.69	15.49		0
	1	99	15.90	15.54	15.87	15.77	15.73		0
	50	0	15.84	15.70	15.80	15.61	15.82	0-2	0
	50	25	15.89	15.65	15.83	15.63	15.67		0
	50	50	15.90	15.64	15.81	15.71	15.72		0
	100	0	15.80	15.63	15.78	15.62	15.64		0
64QAM	1	0	15.87	15.88	15.71	15.54	15.90	0-2	0
	1	50	15.89	15.85	15.86	15.61	15.75		0
	1	99	15.88	15.81	15.83	15.75	15.85		0
	50	0	15.83	15.74	15.84	15.59	15.82	0-3	0
	50	25	15.89	15.70	15.86	15.61	15.67		0
	50	50	15.88	15.66	15.81	15.68	15.72		0
	100	0	15.86	15.68	15.84	15.62	15.69		0

Table 8-306
LTE Band 41 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.90	15.64	15.77	15.69	15.73	0	0
	1	36	15.90	15.61	15.90	15.78	15.65		0
	1	74	15.87	15.55	15.85	15.70	15.58		0
	36	0	15.89	15.65	15.82	15.83	15.70	0-1	0
	36	18	15.86	15.60	15.89	15.87	15.60		0
	36	37	15.81	15.55	15.84	15.82	15.56		0
	75	0	15.83	15.58	15.86	15.79	15.59		0
16QAM	1	0	15.90	15.40	15.79	15.90	15.81	0-1	0
	1	36	15.88	15.52	15.90	15.89	15.75		0
	1	74	15.85	15.37	15.90	15.88	15.64		0
	36	0	15.89	15.68	15.86	15.80	15.68	0-2	0
	36	18	15.87	15.60	15.90	15.85	15.62		0
	36	37	15.84	15.55	15.90	15.81	15.55		0
	75	0	15.82	15.58	15.88	15.78	15.60		0
64QAM	1	0	15.88	15.73	15.61	15.82	15.66	0-2	0
	1	36	15.83	15.57	15.71	15.90	15.50		0
	1	74	15.84	15.49	15.88	15.79	15.56		0
	36	0	15.90	15.64	15.85	15.79	15.76	0-3	0
	36	18	15.88	15.61	15.90	15.80	15.62		0
	36	37	15.82	15.54	15.88	15.80	15.58		0
	75	0	15.82	15.59	15.87	15.78	15.58		0

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Table 8-307
LTE Band 41 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.86	15.72	15.80	15.88	15.70	0	0
	1	25	15.87	15.57	15.78	15.90	15.55		0
	1	49	15.84	15.60	15.77	15.90	15.59		0
	25	0	15.90	15.58	15.87	15.84	15.65	0-1	0
	25	12	15.81	15.57	15.86	15.81	15.62		0
	25	25	15.82	15.56	15.87	15.83	15.60		0
	50	0	15.83	15.59	15.87	15.84	15.62		0
16QAM	1	0	15.90	15.61	15.85	15.79	15.78	0-1	0
	1	25	15.90	15.57	15.88	15.63	15.62		0
	1	49	15.90	15.62	15.83	15.80	15.75		0
	25	0	15.82	15.66	15.85	15.89	15.65	0-2	0
	25	12	15.83	15.62	15.84	15.84	15.64		0
	25	25	15.85	15.56	15.90	15.87	15.58		0
	50	0	15.87	15.63	15.87	15.86	15.65		0
64QAM	1	0	15.90	15.55	15.89	15.79	15.75	0-2	0
	1	25	15.90	15.54	15.84	15.87	15.62		0
	1	49	15.88	15.41	15.90	15.68	15.57		0
	25	0	15.90	15.58	15.88	15.82	15.62	0-3	0
	25	12	15.84	15.55	15.89	15.88	15.65		0
	25	25	15.82	15.56	15.90	15.84	15.63		0
	50	0	15.88	15.63	15.88	15.87	15.62		0

Table 8-308
LTE Band 41 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.83	15.58	15.76	15.90	15.55	0	0
	1	12	15.85	15.53	15.73	15.87	15.50		0
	1	24	15.86	15.56	15.78	15.88	15.52		0
	12	0	15.89	15.56	15.82	15.76	15.62	0-1	0
	12	6	15.82	15.56	15.83	15.77	15.60		0
	12	13	15.88	15.56	15.82	15.79	15.58		0
	25	0	15.89	15.53	15.84	15.81	15.60		0
16QAM	1	0	15.90	15.71	15.85	15.83	15.56	0-1	0
	1	12	15.86	15.65	15.86	15.79	15.58		0
	1	24	15.88	15.51	15.88	15.87	15.52		0
	12	0	15.82	15.60	15.86	15.82	15.62	0-2	0
	12	6	15.84	15.54	15.86	15.79	15.59		0
	12	13	15.86	15.56	15.87	15.85	15.57		0
	25	0	15.81	15.54	15.83	15.83	15.62		0
64QAM	1	0	15.90	15.66	15.82	15.82	15.69	0-2	0
	1	12	15.82	15.68	15.90	15.77	15.78		0
	1	24	15.86	15.61	15.85	15.88	15.88		0
	12	0	15.90	15.59	15.85	15.82	15.60	0-3	0
	12	6	15.90	15.55	15.80	15.81	15.57		0
	12	13	15.84	15.52	15.78	15.84	15.55		0
	25	0	15.85	15.57	15.85	15.80	15.57		0

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8.3.14 LTE Band 41 PC2

Table 8-309
LTE Band 41 PC2 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	**14.12**	13.80	13.87	13.75	14.00	0	0
	1	50	14.00	13.75	13.97	13.75	13.85		0
	1	99	13.80	13.72	14.03	13.76	13.82		0
	50	0	**14.12**	13.76	14.01	13.82	14.04	0-1	0
	50	25	13.98	13.79	14.05	13.84	13.93		0
	50	50	13.96	13.81	14.02	13.83	13.88		0
	100	0	13.91	13.77	14.00	13.83	13.90		0
16QAM	1	0	14.39	14.29	14.28	14.17	14.22	0-1	0
	1	50	14.38	14.18	14.37	14.19	14.06		0
	1	99	14.26	14.18	14.35	14.20	14.07		0
	50	0	14.37	14.09	14.14	13.75	13.83	0-2	0
	50	25	14.12	14.10	14.13	13.70	13.70		0
	50	50	14.14	14.02	14.14	13.71	13.73		0
	100	0	14.08	14.07	14.13	13.71	13.72		0
64QAM	1	0	14.40	14.21	14.13	14.17	14.22	0-2	0
	1	50	14.38	14.18	14.12	14.10	14.04		0
	1	99	14.20	14.13	14.15	14.23	14.04		0
	50	0	14.39	14.16	14.20	13.77	13.91	0-3	0
	50	25	14.11	14.13	14.17	13.76	13.80		0
	50	50	14.16	14.09	14.16	13.75	13.81		0
	100	0	14.07	14.10	14.17	13.76	13.79		0

Table 8-310
LTE Band 41 PC2 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.28	13.70	13.77	13.79	13.78	0	0
	1	36	13.89	13.79	13.86	13.73	13.72		0
	1	74	13.78	13.71	13.79	13.77	13.70		0
	36	0	13.87	13.70	13.73	13.77	13.73	0-1	0
	36	18	13.80	13.74	13.77	13.79	13.70		0
	36	37	13.78	13.78	13.75	13.78	13.75		0
	75	0	13.70	13.71	13.76	13.77	13.70		0
16QAM	1	0	14.41	13.90	14.06	13.75	14.02	0-1	0
	1	36	14.12	13.89	14.19	13.74	13.82		0
	1	74	14.07	13.71	14.09	13.73	13.75		0
	36	0	14.05	13.96	14.02	13.73	13.93	0-2	0
	36	18	13.98	14.06	14.10	13.73	13.85		0
	36	37	13.98	13.97	14.03	13.75	13.78		0
	75	0	13.94	13.98	14.04	13.74	13.81		0
64QAM	1	0	14.25	13.83	14.04	13.70	13.88	0-2	0
	1	36	14.10	13.92	14.14	13.85	13.90		0
	1	74	14.03	13.70	14.09	13.70	13.81		0
	36	0	14.04	13.98	14.05	13.73	13.93	0-3	0
	36	18	13.99	14.02	14.07	13.74	13.87		0
	36	37	13.97	13.94	14.04	13.76	13.75		0
	75	0	13.92	14.02	14.05	13.74	13.83		0

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Table 8-311
LTE Band 41 PC2 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.00	13.73	13.88	13.75	13.71	0	0
	1	25	13.72	13.77	13.84	13.74	13.76		0
	1	49	13.78	13.76	13.87	13.74	13.78		0
	25	0	13.71	13.73	13.73	13.79	13.74	0-1	0
	25	12	13.77	13.71	13.73	13.77	13.70		0
	25	25	13.76	13.70	13.75	13.78	13.74		0
	50	0	13.71	13.73	13.75	13.78	13.73		0
16QAM	1	0	14.26	13.82	14.14	13.79	14.03	0-1	0
	1	25	14.07	13.80	14.07	13.84	13.90		0
	1	49	14.11	13.77	14.14	13.71	13.88		0
	25	0	13.76	13.83	13.87	13.75	13.90	0-2	0
	25	12	13.79	13.83	13.82	13.71	13.81		0
	25	25	13.84	13.77	13.85	13.71	13.83		0
	50	0	13.79	13.83	13.81	13.73	13.86		0
64QAM	1	0	14.42	13.96	14.18	13.74	14.06	0-2	0
	1	25	14.00	13.90	14.17	13.74	13.82		0
	1	49	14.10	13.89	14.19	13.76	13.89		0
	25	0	13.74	13.86	13.90	13.72	13.88	0-3	0
	25	12	13.80	13.86	13.90	13.73	13.82		0
	25	25	13.83	13.77	13.86	13.78	13.83		0
	50	0	13.75	13.83	13.89	13.76	13.84		0

Table 8-312
LTE Band 41 PC2 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.00	13.90	13.98	13.70	13.73	0	0
	1	12	13.99	13.97	13.99	13.71	13.73		0
	1	24	14.02	13.93	14.10	13.72	13.83		0
	12	0	13.87	13.90	13.94	13.74	13.70	0-1	0
	12	6	13.93	13.89	13.93	13.70	13.72		0
	12	13	13.92	13.82	13.92	13.78	13.75		0
	25	0	13.87	13.88	13.90	13.77	13.70		0
16QAM	1	0	13.98	13.71	13.94	13.70	13.70	0-1	0
	1	12	14.11	13.90	13.97	13.76	13.91		0
	1	24	14.07	13.82	14.03	13.74	13.90		0
	12	0	13.91	13.97	14.03	13.73	13.86	0-2	0
	12	6	13.97	14.01	13.99	13.70	13.78		0
	12	13	13.96	13.93	14.06	13.78	13.82		0
	25	0	13.93	13.99	14.01	13.74	13.82		0
64QAM	1	0	13.97	13.91	14.04	13.72	13.86	0-2	0
	1	12	14.12	13.76	14.06	13.74	13.92		0
	1	24	14.09	13.81	14.11	13.75	13.82		0
	12	0	13.94	14.01	14.05	13.75	13.85	0-3	0
	12	6	13.96	13.99	14.02	13.74	13.75		0
	12	13	13.99	13.92	14.03	13.79	13.86		0
	25	0	13.96	14.02	13.99	13.71	13.79		0

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Table 8-313
LTE Band 41 PC2 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.02	13.90	14.00	13.54	13.75	0	0
	1	50	14.04	13.87	**14.05**	13.46	13.66		0
	1	99	13.94	13.62	13.95	13.51	13.72		0
	50	0	14.04	13.95	14.03	13.55	13.80	0-1	0
	50	25	14.07	13.90	14.05	13.50	13.71		0
	50	50	14.06	13.88	**14.08**	13.54	13.72		0
	100	0	14.03	13.87	14.04	13.49	13.70		0
16QAM	1	0	14.03	13.81	13.97	13.66	14.10	0-1	0
	1	50	14.00	13.84	14.00	13.60	13.95		0
	1	99	13.90	13.60	14.03	13.50	14.05		0
	50	0	13.60	13.40	13.63	13.30	13.66	0-2	0
	50	25	13.57	13.41	13.58	13.21	13.56		0
	50	50	13.51	13.29	13.61	13.22	13.55		0
	100	0	13.53	13.35	13.60	13.20	13.46		0
64QAM	1	0	14.14	13.85	14.01	13.64	13.80	0-2	0
	1	50	14.13	13.81	14.09	13.61	13.80		0
	1	99	14.00	13.62	14.03	13.52	13.75		0
	50	0	13.65	13.40	13.60	13.23	13.40	0-3	0
	50	25	13.59	13.42	13.60	13.21	13.30		0
	50	50	13.59	13.30	13.57	13.20	13.24		0
	100	0	13.55	13.34	13.56	13.21	13.22		0

Table 8-314
LTE Band 41 PC2 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.02	13.67	13.75	13.34	13.53	0	0
	1	36	13.95	13.67	13.86	13.38	13.45		0
	1	74	13.84	13.46	13.80	13.34	13.49		0
	36	0	13.91	13.75	13.75	13.38	13.42	0-1	0
	36	18	13.89	13.73	13.81	13.44	13.41		0
	36	37	13.90	13.63	13.81	13.44	13.43		0
	75	0	13.87	13.69	13.79	13.41	13.38		0
16QAM	1	0	14.12	14.07	13.84	13.66	13.55	0-1	0
	1	36	14.01	13.93	13.94	13.65	13.56		0
	1	74	13.80	13.80	13.89	13.56	13.55		0
	36	0	13.96	13.79	13.75	13.46	13.44	0-2	0
	36	18	13.91	13.72	13.87	13.46	13.44		0
	36	37	13.90	13.65	13.83	13.49	13.44		0
	75	0	13.88	13.69	13.83	13.45	13.41		0
64QAM	1	0	14.16	14.01	13.90	13.38	13.70	0-2	0
	1	36	14.00	14.00	14.04	13.52	13.61		0
	1	74	14.06	13.77	13.91	13.57	13.51		0
	36	0	13.89	13.80	13.79	13.45	13.41	0-3	0
	36	18	13.88	13.72	13.83	13.46	13.44		0
	36	37	13.91	13.62	13.79	13.50	13.45		0
	75	0	13.87	13.67	13.79	13.43	13.39		0

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Table 8-315
LTE Band 41 PC2 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.93	13.71	13.70	13.50	13.36	0	0
	1	25	13.80	13.59	13.71	13.47	13.33		0
	1	49	13.85	13.57	13.75	13.52	13.34		0
	25	0	13.89	13.68	13.72	13.38	13.32	0-1	0
	25	12	13.86	13.65	13.76	13.36	13.35		0
	25	25	13.85	13.62	13.79	13.45	13.39		0
	50	0	13.84	13.68	13.74	13.38	13.36		0
16QAM	1	0	14.18	13.88	14.07	13.51	13.66	0-1	0
	1	25	14.08	14.03	14.01	13.38	13.54		0
	1	49	14.11	13.71	14.04	13.78	13.77		0
	25	0	13.87	13.74	13.79	13.44	13.34	0-2	0
	25	12	13.85	13.71	13.79	13.37	13.36		0
	25	25	13.89	13.64	13.80	13.46	13.39		0
	50	0	13.85	13.68	13.77	13.38	13.35		0
64QAM	1	0	14.14	13.73	14.05	13.48	13.72	0-2	0
	1	25	14.16	13.70	13.93	13.89	13.53		0
	1	49	14.13	13.65	14.04	13.60	13.57		0
	25	0	13.93	13.69	13.76	13.43	13.36	0-3	0
	25	12	13.85	13.63	13.76	13.39	13.36		0
	25	25	13.86	13.60	13.79	13.52	13.42		0
	50	0	13.87	13.65	13.74	13.39	13.36		0

Table 8-316
LTE Band 41 PC2 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.03	13.63	13.83	13.45	13.45	0	0
	1	12	13.98	13.60	13.83	13.41	13.42		0
	1	24	14.01	13.57	13.88	13.54	13.47		0
	12	0	13.81	13.62	13.71	13.40	13.29	0-1	0
	12	6	13.81	13.61	13.69	13.38	13.30		0
	12	13	13.83	13.60	13.74	13.37	13.28		0
	25	0	13.83	13.62	13.71	13.39	13.31		0
16QAM	1	0	14.07	13.81	13.89	13.62	13.44	0-1	0
	1	12	14.06	13.84	13.88	13.57	13.51		0
	1	24	14.05	13.78	14.01	13.82	13.63		0
	12	0	13.88	13.70	13.73	13.41	13.38	0-2	0
	12	6	13.89	13.68	13.78	13.40	13.35		0
	12	13	13.89	13.64	13.81	13.41	13.32		0
	25	0	13.83	13.63	13.75	13.37	13.33		0
64QAM	1	0	14.16	13.98	13.98	13.67	13.55	0-2	0
	1	12	14.09	13.87	13.82	13.65	13.55		0
	1	24	14.10	13.86	14.05	13.65	13.56		0
	12	0	13.81	13.64	13.75	13.39	13.29	0-3	0
	12	6	13.86	13.61	13.70	13.40	13.35		0
	12	13	13.88	13.60	13.79	13.41	13.33		0
	25	0	13.80	13.67	13.73	13.40	13.35		0

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Table 8-317
LTE Band 41 PC2 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.80	14.03	13.85	13.65	13.37	0	0
	1	50	**14.11**	13.94	13.96	13.49	13.51		0
	1	99	14.02	13.82	14.00	13.22	13.49		0
	50	0	14.00	**14.10**	13.79	13.61	13.46	0-1	0
	50	25	14.08	13.97	13.85	13.55	13.54		0
	50	50	14.07	13.88	13.82	13.39	13.50		0
	100	0	14.04	13.94	13.81	13.51	13.52		0
16QAM	1	0	14.13	14.20	14.04	14.09	13.61	0-1	0
	1	50	14.20	14.13	14.12	13.85	13.92		0
	1	99	14.18	14.08	14.17	13.53	13.87		0
	50	0	13.85	13.78	13.56	13.32	13.23	0-2	0
	50	25	13.95	13.77	13.57	13.21	13.31		0
	50	50	13.85	13.61	13.61	13.28	13.29		0
	100	0	13.91	13.72	13.56	13.31	13.27		0
64QAM	1	0	14.17	14.14	13.85	13.82	13.72	0-2	0
	1	50	14.20	14.19	13.97	13.67	13.95		0
	1	99	14.19	14.02	14.00	13.31	13.89		0
	50	0	13.81	13.83	13.57	13.43	13.22	0-3	0
	50	25	13.93	13.75	13.59	13.36	13.29		0
	50	50	13.85	13.65	13.61	13.20	13.32		0
	100	0	13.88	13.70	13.60	13.29	13.29		0

Table 8-318
LTE Band 41 PC2 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.09	14.01	13.98	13.70	13.50	0	0
	1	36	14.03	14.01	13.93	13.72	13.67		0
	1	74	14.04	13.92	13.84	13.47	13.64		0
	36	0	14.01	13.95	13.86	13.66	13.54	0-1	0
	36	18	13.97	13.94	13.86	13.65	13.62		0
	36	37	13.97	13.86	13.88	13.53	13.60		0
	75	0	13.96	13.89	13.89	13.64	13.60		0
16QAM	1	0	13.68	13.97	13.34	13.46	13.30	0-1	0
	1	36	13.89	13.93	13.50	13.29	13.30		0
	1	74	13.51	13.68	13.35	13.20	13.30		0
	36	0	13.94	13.79	13.58	13.46	13.31	0-2	0
	36	18	13.95	13.77	13.61	13.44	13.36		0
	36	37	13.83	13.64	13.61	13.27	13.29		0
	75	0	13.89	13.74	13.60	13.40	13.34		0
64QAM	1	0	13.76	13.66	13.51	13.26	13.20	0-2	0
	1	36	14.00	13.59	13.60	13.42	13.41		0
	1	74	13.75	13.46	13.48	13.21	13.20		0
	36	0	13.89	13.78	13.58	13.45	13.25	0-3	0
	36	18	13.93	13.87	13.58	13.42	13.33		0
	36	37	13.84	13.63	13.57	13.28	13.28		0
	75	0	13.89	13.80	13.58	13.47	13.32		0

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Table 8-319
LTE Band 41 PC2 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.14	13.89	14.07	13.78	13.60	0	0
	1	25	13.99	13.90	14.03	13.69	13.64		0
	1	49	14.06	13.91	14.05	13.58	13.69		0
	25	0	14.01	13.91	13.97	13.66	13.59	0-1	0
	25	12	13.98	13.90	13.93	13.63	13.60		0
	25	25	14.00	13.91	13.94	13.52	13.61		0
	50	0	13.95	13.91	13.96	13.65	13.61		0
16QAM	1	0	13.41	13.29	14.12	13.69	13.98	0-1	0
	1	25	13.45	13.33	13.55	13.90	13.94		0
	1	49	13.21	13.27	13.58	13.52	13.69		0
	25	0	13.36	13.26	13.54	13.75	13.70	0-2	0
	25	12	13.36	13.24	13.55	13.69	13.78		0
	25	25	13.35	13.23	13.59	13.64	13.65		0
	50	0	13.36	13.24	13.54	13.70	13.75		0
64QAM	1	0	13.42	13.33	13.83	13.77	13.67	0-2	0
	1	25	13.33	13.40	13.95	14.01	13.60		0
	1	49	13.23	13.35	13.98	13.76	13.47		0
	25	0	13.38	13.25	13.55	13.90	13.59	0-3	0
	25	12	13.37	13.27	13.57	13.74	13.68		0
	25	25	13.36	13.27	13.59	13.65	13.64		0
	50	0	13.42	13.23	13.58	13.70	13.61		0

Table 8-320
LTE Band 41 PC2 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.03	13.88	14.06	13.62	13.60	0	0
	1	12	14.00	13.89	14.01	13.57	13.60		0
	1	24	14.00	13.87	14.01	13.46	13.59		0
	12	0	13.91	13.85	13.94	13.61	13.54	0-1	0
	12	6	13.93	13.85	13.92	13.60	13.53		0
	12	13	13.94	13.84	13.94	13.59	13.55		0
	25	0	13.95	13.86	13.97	13.63	13.55		0
16QAM	1	0	13.97	13.90	13.60	13.43	13.31	0-1	0
	1	12	13.79	13.81	13.47	13.47	13.35		0
	1	24	13.71	13.68	13.61	13.23	13.29		0
	12	0	13.84	13.71	13.52	13.38	13.28	0-2	0
	12	6	13.81	13.74	13.51	13.38	13.26		0
	12	13	13.86	13.66	13.45	13.37	13.25		0
	25	0	13.90	13.73	13.49	13.38	13.26		0
64QAM	1	0	14.04	13.65	13.64	13.44	13.35	0-2	0
	1	12	13.87	13.64	13.62	13.35	13.42		0
	1	24	13.87	13.48	13.58	13.21	13.37		0
	12	0	13.83	13.66	13.49	13.40	13.27	0-3	0
	12	6	13.86	13.72	13.49	13.39	13.29		0
	12	13	13.80	13.71	13.47	13.38	13.29		0
	25	0	13.88	13.73	13.54	13.44	13.21		0

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Table 8-321
LTE Band 41 PC2 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.59	15.72	**15.75**	15.41	15.68	0	0
	1	50	15.68	15.63	15.66	15.43	15.53		0
	1	99	15.66	15.66	15.67	15.52	15.55		0
	50	0	15.63	15.57	**15.71**	15.44	15.70	0-1	0
	50	25	15.68	15.52	15.67	15.48	15.56		0
	50	50	15.70	15.50	15.67	15.55	15.60		0
	100	0	15.64	15.49	15.64	15.46	15.58		0
16QAM	1	0	15.89	15.81	15.90	15.76	15.83	0-1	0
	1	50	15.85	15.71	15.90	15.71	15.82		0
	1	99	15.86	15.86	15.87	15.88	15.80		0
	50	0	15.41	15.34	15.49	15.21	15.49	0-2	0
	50	25	15.47	15.31	15.51	15.30	15.38		0
	50	50	15.47	15.27	15.41	15.33	15.38		0
	100	0	15.45	15.26	15.45	15.21	15.35		0
64QAM	1	0	15.84	15.74	15.90	15.78	15.74	0-2	0
	1	50	15.88	15.61	15.87	15.85	15.83		0
	1	99	15.83	15.58	15.75	15.86	15.69		0
	50	0	15.40	15.27	15.42	15.20	15.43	0-3	0
	50	25	15.45	15.23	15.40	15.21	15.27		0
	50	50	15.46	15.20	15.36	15.28	15.30		0
	100	0	15.45	15.23	15.41	15.19	15.32		0

Table 8-322
LTE Band 41 PC2 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.82	15.70	15.74	15.73	15.66	0	0
	1	36	15.85	15.64	15.83	15.81	15.59		0
	1	74	15.80	15.56	15.78	15.75	15.54		0
	36	0	15.87	15.63	15.80	15.81	15.73	0-1	0
	36	18	15.83	15.59	15.86	15.84	15.65		0
	36	37	15.82	15.53	15.86	15.83	15.60		0
	75	0	15.83	15.55	15.84	15.83	15.63		0
16QAM	1	0	15.85	15.47	15.72	15.85	15.76	0-1	0
	1	36	15.86	15.40	15.82	15.89	15.66		0
	1	74	15.90	15.48	15.87	15.81	15.60		0
	36	0	15.77	15.39	15.61	15.57	15.49	0-2	0
	36	18	15.76	15.37	15.67	15.63	15.41		0
	36	37	15.71	15.29	15.66	15.61	15.39		0
	75	0	15.65	15.30	15.63	15.58	15.40		0
64QAM	1	0	15.81	15.45	15.58	15.72	15.51	0-2	0
	1	36	15.81	15.53	15.68	15.89	15.50		0
	1	74	15.85	15.35	15.67	15.81	15.46		0
	36	0	15.79	15.42	15.63	15.54	15.50	0-3	0
	36	18	15.74	15.35	15.69	15.58	15.43		0
	36	37	15.74	15.27	15.67	15.60	15.38		0
	75	0	15.71	15.30	15.64	15.58	15.39		0

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Table 8-323
LTE Band 41 PC2 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.89	15.77	15.80	15.81	15.71	0	0
	1	25	15.87	15.66	15.81	15.81	15.54		0
	1	49	15.89	15.66	15.82	15.81	15.63		0
	25	0	15.89	15.56	15.84	15.81	15.65	0-1	0
	25	12	15.90	15.54	15.83	15.79	15.61		0
	25	25	15.87	15.53	15.85	15.80	15.59		0
	50	0	15.90	15.56	15.85	15.81	15.63		0
16QAM	1	0	15.90	15.67	15.86	15.67	15.79	0-1	0
	1	25	15.83	15.59	15.87	15.64	15.62		0
	1	49	15.87	15.57	15.82	15.77	15.65		0
	25	0	15.86	15.32	15.58	15.62	15.35	0-2	0
	25	12	15.71	15.25	15.62	15.58	15.37		0
	25	25	15.69	15.24	15.64	15.60	15.32		0
	50	0	15.71	15.36	15.65	15.63	15.39		0
64QAM	1	0	15.90	15.61	15.90	15.86	15.62	0-2	0
	1	25	15.90	15.42	15.89	15.90	15.71		0
	1	49	15.88	15.41	15.90	15.82	15.85		0
	25	0	15.80	15.31	15.67	15.61	15.44	0-3	0
	25	12	15.77	15.32	15.66	15.62	15.39		0
	25	25	15.72	15.29	15.66	15.63	15.38		0
	50	0	15.68	15.31	15.65	15.60	15.37		0

Table 8-324
LTE Band 41 PC2 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.84	15.62	15.79	15.87	15.53	0	0
	1	12	15.86	15.61	15.79	15.89	15.49		0
	1	24	15.86	15.59	15.80	15.84	15.49		0
	12	0	15.87	15.54	15.81	15.75	15.53	0-1	0
	12	6	15.90	15.53	15.79	15.75	15.51		0
	12	13	15.87	15.49	15.80	15.74	15.50		0
	25	0	15.87	15.54	15.82	15.77	15.55		0
16QAM	1	0	15.89	15.53	15.79	15.74	15.39	0-1	0
	1	12	15.83	15.43	15.89	15.79	15.47		0
	1	24	15.90	15.48	15.84	15.81	15.51		0
	12	0	15.69	15.26	15.61	15.60	15.31	0-2	0
	12	6	15.70	15.29	15.63	15.63	15.30		0
	12	13	15.77	15.23	15.61	15.58	15.31		0
	25	0	15.70	15.24	15.61	15.57	15.30		0
64QAM	1	0	15.90	15.53	15.90	15.76	15.72	0-2	0
	1	12	15.82	15.45	15.89	15.76	15.81		0
	1	24	15.83	15.43	15.87	15.80	15.74		0
	12	0	15.74	15.27	15.63	15.54	15.33	0-3	0
	12	6	15.62	15.28	15.61	15.61	15.37		0
	12	13	15.64	15.25	15.61	15.59	15.32		0
	25	0	15.70	15.30	15.59	15.53	15.32		0

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8.3.15 LTE Band 48

Table 8-325
LTE Band 48 Conducted Powers Ant 1 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	14.80	15.10	15.12	15.01	0	0
	1	50	14.71	15.06	14.86	14.86		0
	1	99	14.83	**15.26**	14.89	15.09		0
	50	0	14.75	14.96	15.03	14.90	0-1	0
	50	25	14.75	14.96	14.91	14.85		0
	50	50	14.74	**15.06**	14.86	14.87		0
	100	0	14.84	15.04	14.95	14.93		0
16QAM	1	0	15.05	14.99	15.28	15.11	0-1	0
	1	50	14.86	15.02	15.11	14.83		0
	1	99	14.97	15.27	15.10	14.98		0
	50	0	14.68	14.86	14.95	14.79	0-2	0
	50	25	14.64	14.88	14.83	14.75		0
	50	50	14.64	14.98	14.75	14.77		0
	100	0	14.77	14.98	14.90	14.84		0
64QAM	1	0	14.95	15.19	15.20	15.10	0-2	0
	1	50	14.78	15.02	15.10	14.75		0
	1	99	14.88	15.28	14.98	14.87		0
	50	0	14.62	14.83	14.90	14.79	0-3	0
	50	25	14.65	14.87	14.79	14.75		0
	50	50	14.63	14.92	14.73	14.74		0
	100	0	14.75	14.99	14.91	14.88		0

Table 8-326
LTE Band 48 Conducted Powers Ant 1 - 15 MHz Bandwidth

LTE Band 48 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55315 (3557.5 MHz)	55765 (3602.5 MHz)	56215 (3647.5 MHz)	56665 (3692.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	14.63	14.84	14.72	14.67	0	0
	1	36	14.43	14.88	14.62	14.53		0
	1	74	14.58	14.95	14.60	14.64		0
	36	0	14.66	14.84	14.79	14.71	0-1	0
	36	18	14.64	14.88	14.73	14.69		0
	36	37	14.67	14.89	14.68	14.71		0
	75	0	14.67	14.94	14.76	14.71		0
16QAM	1	0	14.77	14.52	14.77	14.68	0-1	0
	1	36	14.51	14.68	14.79	14.43		0
	1	74	14.70	15.06	14.59	14.77		0
	36	0	14.55	14.73	14.68	14.60	0-2	0
	36	18	14.51	14.75	14.64	14.56		0
	36	37	14.57	14.79	14.58	14.59		0
	75	0	14.59	14.84	14.66	14.64		0
64QAM	1	0	14.67	14.88	14.72	14.48	0-2	0
	1	36	14.34	14.74	14.59	14.51		0
	1	74	14.58	15.01	14.67	14.67		0
	36	0	14.51	14.67	14.69	14.57	0-3	0
	36	18	14.44	14.73	14.62	14.51		0
	36	37	14.51	14.75	14.55	14.56		0
	75	0	14.55	14.82	14.69	14.64		0

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Table 8-327
LTE Band 48 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55290 (3555.0 MHz)	Low-Mid Channel 55757 (3601.7 MHz)	Mid-High Channel 56223 (3648.3 MHz)	High Channel 56690 (3695.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	14.81	14.94	14.73	14.73	0	0
	1	25	14.46	14.68	14.49	14.51		0
	1	49	14.77	15.01	14.64	14.76		0
	25	0	14.65	14.86	14.72	14.65	0-1	0
	25	12	14.55	14.81	14.64	14.64		0
	25	25	14.59	14.92	14.69	14.72		0
	50	0	14.68	14.94	14.74	14.73		0
16QAM	1	0	14.78	14.82	14.85	14.83	0-1	0
	1	25	14.42	14.54	14.46	14.50		0
	1	49	14.60	14.77	14.48	14.91		0
	25	0	14.51	14.69	14.50	14.53	0-2	0
	25	12	14.39	14.69	14.46	14.44		0
	25	25	14.37	14.74	14.49	14.54		0
	50	0	14.59	14.83	14.64	14.68		0
64QAM	1	0	14.58	15.15	14.85	14.88	0-2	0
	1	25	14.32	14.90	14.68	14.53		0
	1	49	14.58	15.29	14.56	14.80		0
	25	0	14.49	14.76	14.64	14.56	0-3	0
	25	12	14.42	14.69	14.59	14.51		0
	25	25	14.45	14.77	14.60	14.62		0
	50	0	14.57	14.86	14.62	14.69		0

Table 8-328
LTE Band 48 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55265 (3552.5 MHz)	Low-Mid Channel 55748 (3600.8 MHz)	Mid-High Channel 56232 (3649.2 MHz)	High Channel 56715 (3697.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	14.59	14.87	14.64	14.73	0	0
	1	12	14.35	14.79	14.61	14.43		0
	1	24	14.52	15.08	14.72	14.66		0
	12	0	14.61	14.68	14.53	14.64	0-1	0
	12	6	14.51	14.67	14.46	14.56		0
	12	13	14.58	14.79	14.55	14.64		0
	25	0	14.66	14.87	14.65	14.71		0
16QAM	1	0	14.58	14.75	14.53	14.58	0-1	0
	1	12	14.49	14.43	14.51	14.36		0
	1	24	14.47	14.75	14.45	14.74		0
	12	0	14.39	14.41	14.49	14.31	0-2	0
	12	6	14.31	14.50	14.32	14.34		0
	12	13	14.35	14.56	14.45	14.32		0
	25	0	14.44	14.70	14.53	14.54		0
64QAM	1	0	14.72	14.71	14.54	14.56	0-2	0
	1	12	14.54	14.86	14.49	14.66		0
	1	24	14.59	14.66	14.33	14.90		0
	12	0	14.41	14.35	14.45	14.57	0-3	0
	12	6	14.38	14.49	14.39	14.42		0
	12	13	14.40	14.51	14.37	14.47		0
	25	0	14.53	14.77	14.57	14.53		0

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Table 8-329
LTE Band 48 Conducted Powers Ant 3 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	16.05	15.74	**16.06**	15.75	0	0
	1	50	15.64	15.61	15.69	15.51		0
	1	99	15.83	15.93	15.88	15.79		0
	50	0	15.58	15.62	**15.76**	15.55	0-1	0
	50	25	15.53	15.60	15.70	15.50		0
	50	50	15.60	15.58	15.71	15.61		0
	100	0	15.58	15.75	15.74	15.58		0
16QAM	1	0	15.98	16.15	16.29	16.22	0-1	0
	1	50	15.80	15.95	16.01	15.76		0
	1	99	15.99	16.11	16.05	16.04		0
	50	0	15.73	15.82	15.83	15.70	0-2	0
	50	25	15.69	15.80	15.75	15.54		0
	50	50	15.76	15.81	15.77	15.79		0
	100	0	15.75	15.86	15.86	15.76		0
64QAM	1	0	15.97	16.15	16.40	16.16	0-2	0
	1	50	15.79	16.07	16.04	15.89		0
	1	99	16.00	16.14	16.27	16.25		0
	50	0	15.71	15.83	15.83	15.72	0-3	0
	50	25	15.69	15.79	15.74	15.78		0
	50	50	15.65	15.91	15.73	15.77		0
	100	0	15.77	15.87	15.86	15.74		0

Table 8-330
LTE Band 48 Conducted Powers Ant 3 - 15 MHz Bandwidth

LTE Band 48 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55315 (3557.5 MHz)	Low-Mid Channel 55765 (3602.5 MHz)	Mid-High Channel 56215 (3647.5 MHz)	High Channel 56665 (3692.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	16.02	16.04	16.21	16.20	0	0
	1	36	16.03	16.08	16.09	15.97		0
	1	74	15.89	16.14	16.14	16.00		0
	36	0	15.84	15.93	16.03	15.95	0-1	0
	36	18	15.84	16.02	16.01	15.94		0
	36	37	15.85	16.02	15.99	15.94		0
	75	0	15.88	16.06	16.03	15.98		0
16QAM	1	0	16.10	16.16	16.35	16.24	0-1	0
	1	36	15.80	15.98	16.05	16.11		0
	1	74	15.91	16.13	16.21	16.15		0
	36	0	15.84	15.95	16.04	16.09	0-2	0
	36	18	15.84	16.00	16.06	16.01		0
	36	37	15.91	16.03	16.06	16.03		0
	75	0	15.96	16.13	16.14	16.10		0
64QAM	1	0	15.91	15.86	16.43	16.34	0-2	0
	1	36	15.85	16.08	16.07	16.09		0
	1	74	16.16	16.23	16.10	16.36		0
	36	0	15.82	15.95	16.08	16.03	0-3	0
	36	18	15.83	16.02	16.02	16.00		0
	36	37	15.90	16.01	16.05	16.01		0
	75	0	15.93	16.08	16.12	16.06		0

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Table 8-331
LTE Band 48 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55290 (3555.0 MHz)	Low-Mid Channel 55757 (3601.7 MHz)	Mid-High Channel 56223 (3648.3 MHz)	High Channel 56690 (3695.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	16.03	16.12	16.14	16.09	0	0
	1	25	15.70	15.91	15.91	15.99		0
	1	49	16.06	16.22	16.11	16.18		0
	25	0	15.86	16.05	16.04	15.97	0-1	0
	25	12	15.84	16.00	15.97	15.91		0
	25	25	15.88	15.97	16.04	16.08		0
	50	0	15.91	16.06	16.12	15.91		0
16QAM	1	0	15.91	16.03	16.11	16.02	0-1	0
	1	25	15.53	15.76	15.79	15.89		0
	1	49	16.12	16.26	16.15	16.22		0
	25	0	15.79	15.96	15.92	15.99	0-2	0
	25	12	15.78	15.94	15.87	15.88		0
	25	25	15.75	15.93	15.91	15.93		0
	50	0	15.84	16.00	16.05	15.99		0
64QAM	1	0	15.86	15.98	16.18	16.30	0-2	0
	1	25	15.89	15.87	16.09	16.05		0
	1	49	15.81	15.97	16.09	16.04		0
	25	0	15.78	15.94	15.91	15.90	0-3	0
	25	12	15.67	15.85	15.84	15.87		0
	25	25	15.77	15.96	15.92	15.95		0
	50	0	15.81	16.00	16.04	16.00		0

Table 8-332
LTE Band 48 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55265 (3552.5 MHz)	Low-Mid Channel 55748 (3600.8 MHz)	Mid-High Channel 56232 (3649.2 MHz)	High Channel 56715 (3697.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	16.10	16.08	16.13	16.14	0	0
	1	12	15.70	15.96	16.00	15.94		0
	1	24	15.82	16.26	16.31	16.23		0
	12	0	15.85	15.96	15.95	16.00	0-1	0
	12	6	15.74	15.89	15.92	15.94		0
	12	13	15.81	15.99	16.06	16.05		0
	25	0	15.94	16.07	16.13	15.99		0
16QAM	1	0	15.74	16.05	15.96	16.02	0-1	0
	1	12	15.59	15.76	15.60	15.59		0
	1	24	15.70	15.97	15.83	15.99		0
	12	0	15.56	15.64	15.61	15.74	0-2	0
	12	6	15.50	15.59	15.57	15.68		0
	12	13	15.53	15.69	15.60	15.65		0
	25	0	15.70	15.85	15.88	15.94		0
64QAM	1	0	15.85	15.88	16.07	15.92	0-2	0
	1	12	15.74	15.72	15.83	15.79		0
	1	24	15.83	15.77	16.00	16.08		0
	12	0	15.50	15.55	15.60	15.65	0-3	0
	12	6	15.60	15.56	15.62	15.63		0
	12	13	15.53	15.50	15.75	15.58		0
	25	0	15.68	15.81	15.95	15.91		0

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Table 8-333
LTE Band 48 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	14.75	14.97	15.07	15.19	0	0
	1	50	14.81	14.85	14.91	15.12		0
	1	99	14.84	15.08	15.06	**15.21**		0
	50	0	14.82	14.81	15.02	15.15	0-1	0
	50	25	14.86	14.80	14.96	15.17		0
	50	50	14.76	14.88	14.93	**15.23**		0
	100	0	14.93	14.89	15.03	15.20		0
16QAM	1	0	14.84	14.87	14.98	15.22	0-1	0
	1	50	14.83	14.73	14.87	15.16		0
	1	99	14.88	15.01	14.93	15.21		0
	50	0	14.76	14.72	14.93	15.09	0-2	0
	50	25	14.79	14.53	14.87	15.12		0
	50	50	14.69	14.86	14.85	15.16		0
	100	0	14.88	14.84	14.93	15.21		0
64QAM	1	0	14.75	14.79	15.08	14.95	0-2	0
	1	50	14.80	14.81	14.99	15.15		0
	1	99	14.85	15.07	15.14	15.18		0
	50	0	14.72	14.73	14.92	15.12	0-3	0
	50	25	14.76	14.74	14.88	15.15		0
	50	50	14.70	14.76	14.83	15.14		0
	100	0	14.85	14.86	14.96	15.20		0

Table 8-334
LTE Band 48 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 48 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55315 (3557.5 MHz)	Low-Mid Channel 55765 (3602.5 MHz)	Mid-High Channel 56215 (3647.5 MHz)	High Channel 56665 (3692.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	14.64	14.72	14.77	15.06	0	0
	1	36	14.67	14.79	14.82	15.08		0
	1	74	14.59	14.68	14.80	14.90		0
	36	0	14.66	14.71	14.85	15.05	0-1	0
	36	18	14.70	14.74	14.81	15.14		0
	36	37	14.78	14.74	14.81	15.07		0
	75	0	14.74	14.79	14.85	15.16		0
16QAM	1	0	14.51	14.71	14.68	14.84	0-1	0
	1	36	14.51	14.59	14.61	14.88		0
	1	74	14.51	14.67	14.67	14.91		0
	36	0	14.54	14.58	14.78	14.97	0-2	0
	36	18	14.62	14.62	14.69	15.04		0
	36	37	14.66	14.63	14.73	14.99		0
	75	0	14.68	14.70	14.77	15.09		0
64QAM	1	0	14.54	14.79	14.75	14.99	0-2	0
	1	36	14.63	14.64	14.75	15.02		0
	1	74	14.61	14.63	14.69	15.02		0
	36	0	14.49	14.54	14.73	14.93	0-3	0
	36	18	14.58	14.59	14.68	14.99		0
	36	37	14.64	14.57	14.70	14.96		0
	75	0	14.66	14.68	14.75	15.10		0

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Table 8-335
LTE Band 48 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55290 (3555.0 MHz)	Low-Mid Channel 55757 (3601.7 MHz)	Mid-High Channel 56223 (3648.3 MHz)	High Channel 56690 (3695.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	14.60	14.78	14.85	15.17	0	0
	1	25	14.50	14.47	14.61	14.98		0
	1	49	14.76	14.80	14.84	14.98		0
	25	0	14.55	14.71	14.80	15.16	0-1	0
	25	12	14.56	14.66	14.74	15.02		0
	25	25	14.69	14.75	14.83	15.04		0
	50	0	14.66	14.78	14.86	15.16		0
16QAM	1	0	14.52	14.75	14.84	15.07	0-1	0
	1	25	14.38	14.41	14.54	14.79		0
	1	49	14.66	14.70	14.88	15.02		0
	25	0	14.43	14.55	14.63	15.01	0-2	0
	25	12	14.41	14.52	14.64	14.92		0
	25	25	14.57	14.60	14.72	14.87		0
	50	0	14.58	14.68	14.76	15.06		0
64QAM	1	0	14.84	14.64	14.84	15.12	0-2	0
	1	25	14.32	14.55	14.66	14.79		0
	1	49	14.82	14.71	14.81	15.00		0
	25	0	14.42	14.61	14.72	14.93	0-3	0
	25	12	14.42	14.54	14.56	14.86		0
	25	25	14.54	14.61	14.64	14.93		0
	50	0	14.63	14.68	14.81	15.12		0

Table 8-336
LTE Band 48 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55265 (3552.5 MHz)	Low-Mid Channel 55748 (3600.8 MHz)	Mid-High Channel 56232 (3649.2 MHz)	High Channel 56715 (3697.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	14.67	14.71	14.79	15.03	0	0
	1	12	14.49	14.61	14.68	14.91		0
	1	24	14.83	14.87	14.92	15.14		0
	12	0	14.47	14.61	14.73	14.93	0-1	0
	12	6	14.38	14.54	14.62	14.85		0
	12	13	14.54	14.61	14.70	14.92		0
	25	0	14.58	14.72	14.78	15.02		0
16QAM	1	0	14.38	14.58	14.70	14.90	0-1	0
	1	12	14.30	14.47	14.34	14.58		0
	1	24	14.69	14.70	14.58	14.93		0
	12	0	14.30	14.35	14.46	14.74	0-2	0
	12	6	14.34	14.31	14.38	14.67		0
	12	13	14.34	14.42	14.36	14.61		0
	25	0	14.45	14.59	14.69	14.94		0
64QAM	1	0	14.64	14.58	14.62	14.89	0-2	0
	1	12	14.45	14.34	14.89	14.81		0
	1	24	14.58	14.75	14.41	15.07		0
	12	0	14.96	14.31	14.37	14.69	0-3	0
	12	6	14.89	14.33	14.38	14.49		0
	12	13	14.33	14.35	14.43	14.41		0
	25	0	14.35	14.67	14.63	14.93		0

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Table 8-337
LTE Band 48 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	16.13	16.24	**16.26**	16.15	0	0
	1	50	16.15	16.00	16.13	16.02		0
	1	99	16.11	16.25	16.22	16.12		0
	50	0	16.20	16.04	**16.22**	16.03	0-1	0
	50	25	16.21	16.01	16.00	15.94		0
	50	50	16.13	16.06	16.05	16.02		0
	100	0	16.20	16.09	16.21	15.92		0
16QAM	1	0	15.91	15.66	16.09	15.86	0-1	0
	1	50	15.96	15.57	15.90	15.60		0
	1	99	15.90	15.88	16.10	15.74		0
	50	0	15.66	15.46	15.60	15.41	0-2	0
	50	25	15.70	15.42	15.55	15.35		0
	50	50	15.63	15.52	15.60	15.42		0
	100	0	15.80	15.50	15.61	15.45		0
64QAM	1	0	16.25	15.98	16.22	16.05	0-2	0
	1	50	16.21	15.92	16.05	15.82		0
	1	99	16.13	16.12	16.12	15.93		0
	50	0	15.94	15.65	15.73	15.56	0-3	0
	50	25	15.97	15.66	15.69	15.52		0
	50	50	15.83	15.73	15.73	15.59		0
	100	0	16.08	15.77	15.79	15.64		0

Table 8-338
LTE Band 48 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 48 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55315 (3557.5 MHz)	Low-Mid Channel 55765 (3602.5 MHz)	Mid-High Channel 56215 (3647.5 MHz)	High Channel 56665 (3692.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	16.09	15.84	16.18	15.98	0	0
	1	36	16.21	15.81	16.21	15.94		0
	1	74	16.27	15.92	16.20	16.06		0
	36	0	16.17	15.95	16.06	15.94	0-1	0
	36	18	16.25	15.98	16.08	16.02		0
	36	37	16.25	16.00	16.07	15.99		0
	75	0	16.29	16.06	16.16	16.06		0
16QAM	1	0	16.12	15.67	16.12	15.82	0-1	0
	1	36	16.14	15.56	16.06	15.89		0
	1	74	15.93	15.65	16.29	15.80		0
	36	0	15.83	15.66	15.77	15.67	0-2	0
	36	18	15.97	15.67	15.77	15.73		0
	36	37	15.92	15.69	15.75	15.72		0
	75	0	16.04	15.77	15.85	15.85		0
64QAM	1	0	15.90	15.62	15.83	15.66	0-2	0
	1	36	16.04	15.81	15.87	15.84		0
	1	74	15.91	15.76	15.91	15.62		0
	36	0	15.82	15.64	15.76	15.68	0-3	0
	36	18	15.91	15.59	15.78	15.71		0
	36	37	15.91	15.64	15.75	15.68		0
	75	0	16.04	15.76	15.84	15.82		0

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Table 8-339
LTE Band 48 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55290 (3555.0 MHz)	Low-Mid Channel 55757 (3601.7 MHz)	Mid-High Channel 56223 (3648.3 MHz)	High Channel 56690 (3695.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	16.29	16.04	16.18	16.10	0	0
	1	25	16.19	15.90	15.89	15.98		0
	1	49	16.30	16.10	16.18	16.24		0
	25	0	16.11	15.97	16.14	16.07	0-1	0
	25	12	16.11	15.91	16.05	15.98		0
	25	25	16.26	16.00	16.14	16.03		0
	50	0	16.24	16.05	16.18	16.05		0
16QAM	1	0	16.17	15.80	16.13	15.81	0-1	0
	1	25	15.91	15.61	15.80	15.57		0
	1	49	16.20	15.84	16.12	15.98		0
	25	0	15.80	15.65	15.75	15.65	0-2	0
	25	12	15.76	15.56	15.64	15.58		0
	25	25	15.87	15.67	15.75	15.63		0
	50	0	15.92	15.73	15.84	15.79		0
64QAM	1	0	16.01	16.08	15.99	15.70	0-2	0
	1	25	15.92	15.77	15.80	15.60		0
	1	49	16.13	16.07	15.90	15.92		0
	25	0	15.80	15.64	15.84	15.66	0-3	0
	25	12	15.75	15.60	15.76	15.61		0
	25	25	15.90	15.67	15.78	15.64		0
	50	0	15.92	15.73	15.84	15.78		0

Table 8-340
LTE Band 48 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55265 (3552.5 MHz)	Low-Mid Channel 55748 (3600.8 MHz)	Mid-High Channel 56232 (3649.2 MHz)	High Channel 56715 (3697.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	16.09	15.98	16.15	16.05	0	0
	1	12	15.88	15.92	16.07	15.77		0
	1	24	16.13	16.28	16.21	15.95		0
	12	0	16.07	15.89	16.02	16.03	0-1	0
	12	6	15.98	15.75	15.98	15.93		0
	12	13	16.12	15.91	16.03	15.98		0
	25	0	16.13	16.02	16.17	16.07		0
16QAM	1	0	16.02	15.93	15.77	15.72	0-1	0
	1	12	15.30	15.39	15.55	15.30		0
	1	24	16.12	15.70	15.76	15.31		0
	12	0	15.41	15.46	15.71	15.39	0-2	0
	12	6	15.47	15.33	15.43	15.38		0
	12	13	15.49	15.41	15.50	15.42		0
	25	0	15.72	15.67	15.76	15.67		0
64QAM	1	0	15.73	15.63	16.06	15.81	0-2	0
	1	12	15.72	15.30	15.86	15.46		0
	1	24	15.81	15.50	16.00	15.75		0
	12	0	15.68	15.31	15.64	15.59	0-3	0
	12	6	15.63	15.34	15.52	15.42		0
	12	13	15.75	15.32	15.66	15.51		0
	25	0	15.67	15.67	15.72	15.62		0

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8.3.16 LTE Uplink Carrier Aggregation Conducted Powers

Table 8-341
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 1

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	20.49	20.47

Table 8-342
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 3

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	20.19	20.19

Table 8-343
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 2A

	PCC								SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	1	99	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	1	0	11.70	12.05

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40620	2593.0	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	13.70	13.98

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	50	0	LTE B41 PC2	20	40422	2573.2	QPSK	50	50	13.70	14.01

Table 8-344
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 2B

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	11.72	11.83

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41055	2636.5	QPSK	50	0	LTE B41	20	40857	2616.7	QPSK	50	50	13.25	13.63

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41055	2636.5	QPSK	50	0	LTE B41 PC2	20	40857	2616.7	QPSK	50	50	13.11	13.55

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Table 8-345
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 4A

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	50	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	11.82	11.90

	PCC							SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41055	2636.5	QPSK	50	0	LTE B41	20	40857	2616.7	QPSK	50	50	13.33	13.67

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41055	2636.5	QPSK	50	0	LTE B41 PC2	20	40857	2616.7	QPSK	50	50	13.20	13.61

Table 8-346
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 4B

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	1	99	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	1	0	13.12	13.19

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	15.70	15.83

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	1	99	LTE B41 PC2	20	39948	2525.8	QPSK	1	0	15.79	15.66

Notes:

1. This device supports uplink carrier aggregation for LTE CA_7C, LTE CA_5B and LTE CA_41C with a maximum of two 20 MHz component carriers. For intraband contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.



Figure 8-3
Power Measurement Setup

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8.4 WLAN Maximum Conducted Powers

8.4.1 Variant 1

Table 8-347
2.4 GHz WLAN Average RF Power – Ant 2A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	11.80	11.84	11.87
2437	6	11.65	11.68	11.76
2462	11	11.69	11.71	11.74

Table 8-348
2.4 GHz WLAN Average RF Power – Ant 4A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	11.80	11.72	11.78
2437	6	11.66	11.68	11.70
2462	11	11.67	11.68	11.74

Table 8-349
5 GHz WLAN Maximum Average RF Power – 5GHz ANTlower

5GHz (40MHz) Conducted Power [dBm]				5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode		Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n	802.11ac			802.11ac
		Average	Average			Average
5190	38	12.62	12.60	5530	106	10.67
5230	46	15.04	15.00	5610	122	15.60
5270	54	15.60	15.56	5690	138	15.57
5310	62	12.51	12.44	5775	155	14.50

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Table 8-350
5 GHz WLAN Maximum Average RF Power – 5GHz ANTupper

5GHz (40MHz) Conducted Power [dBm]				5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode		Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n	802.11ac			802.11ac
		Average	Average			Average
5190	38	12.55	12.61	5530	106	10.50
5230	46	15.20	15.25	5610	122	14.06
5270	54	15.45	15.37	5690	138	14.14
5310	62	12.61	12.55	5775	155	14.60

8.4.2 Variant 2

Table 8-351
2.4 GHz WLAN Average RF Power – Ant 2A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	11.53	11.44	11.52
2437	6	11.54	11.57	11.61
2462	11	11.60	11.53	11.60

Table 8-352
2.4 GHz WLAN Average RF Power – Ant 4A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	11.65	11.60	11.61
2437	6	11.70	11.68	11.55
2462	11	11.66	11.66	11.57

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Table 8-353
5 GHz WLAN Average RF Power – 5GHz ANTlower

5GHz (40MHz) Conducted Power [dBm]				5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode		Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n	802.11ac			802.11ac
		Average	Average			Average
5190	38	12.53	12.54	5530	106	10.61
5230	46	15.05	15.00	5610	122	15.60
5270	54	15.35	15.28	5690	138	15.55
5310	62	12.56	12.61	5775	155	14.52

Table 8-354
5 GHz WLAN Average RF Power – 5GHz ANTupper

5GHz (40MHz) Conducted Power [dBm]				5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode		Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n	802.11ac			802.11ac
		Average	Average			Average
5190	38	12.50	12.62	5530	106	10.65
5230	46	15.08	15.05	5610	122	14.18
5270	54	15.33	15.38	5690	138	14.05
5310	62	12.51	12.61	5775	155	14.68

8.5 WLAN Reduced Conducted Powers

8.5.1 Variant 1

Table 8-355
2.4 GHz WLAN Average RF Power – Ant 2A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	5.21	5.41	5.34
2437	6	5.47	5.48	5.27
2462	11	5.49	5.42	5.32

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Table 8-356
2.4 GHz WLAN Average RF Power – Ant 4A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	5.31	5.29	5.40
2437	6	5.49	5.56	5.51
2462	11	5.47	5.48	5.50

Table 8-357
5 GHz WLAN Average RF Power – 5GHz ANTlower

5GHz (40MHz) Conducted Power [dBm]				5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode		Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n	802.11ac			802.11ac
		Average	Average			Average
5190	38	12.50	12.49	5530	106	11.50
5230	46	12.40	12.42	5610	122	12.49
5270	54	12.45	12.48	5690	138	12.50
5310	62	12.42	12.46	5775	155	11.45

Table 8-358
5 GHz WLAN Average RF Power – 5GHz ANTupper

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	10.98
5290	58	11.13
5530	106	9.95
5610	122	10.00
5690	138	9.99
5775	155	10.45

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8.5.2 Variant 2

Table 8-359
2.4 GHz WLAN Average RF Power – Ant 2A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	5.48	5.38	5.48
2437	6	5.30	5.33	5.40
2462	11	5.49	5.44	5.46

Table 8-360
2.4 GHz WLAN Average RF Power – Ant 4A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	5.27	5.30	5.24
2437	6	5.45	5.40	5.40
2462	11	5.36	5.32	5.28

Table 8-361
5 GHz WLAN Average RF Power – 5GHz ANTlower

5GHz (40MHz) Conducted Power [dBm]				5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode		Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n	802.11ac			802.11ac
		Average	Average			Average
5190	38	12.32	12.30	5530	106	11.42
5230	46	12.31	12.23	5610	122	12.46
5270	54	12.42	12.49	5690	138	12.50
5310	62	12.35	12.44	5775	155	11.49

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Table 8-362
5 GHz WLAN Average RF Power – 5GHz ANTupper

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	10.96
5290	58	11.17
5530	106	9.75
5610	122	9.85
5690	138	10.00
5775	155	10.39

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8.5.3 WLAN Power Reduction Verification Summary

Table 8-363
WLAN Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Target Power [dBm] (Tolerance [dB])	Reduced Target Power [dBm] (Tolerance [dB])	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
ANT2a	2.4 GHz WLAN	Main Band 2a/2b ON	13	6	11.50 (± 1.5)	4.50 (± 1.5)	12.2	3.13	PASS
		Interband ULCA ON	13	6	11.50 (± 1.5)	4.50 (± 1.5)	11.42	4.86	PASS
ANT4a		Main Band 4a/4b ON	13	6	11.50 (± 1.5)	4.50 (± 1.5)	11.57	4.85	PASS
		Interband ULCA ON	13	6	11.50 (± 1.5)	4.50 (± 1.5)	11.57	4.95	PASS
5GHz ANTlower	5 GHz WLAN	Main Band 2a ON	16.5	12.5	15.00 (± 1.5)	11.00 (± 1.5)	13.56	9.95	PASS
		Interband ULCA ON	16.5	12.5	15.00 (± 1.5)	11.00 (± 1.5)	13.62	10.11	PASS
5GHz ANTupper		Main Band 3 ON	16.25	11.25	14.75 (± 1.5)	9.75 (± 1.5)	13.3	8.3	PASS
		Interband ULCA ON	16.25	11.25	14.75 (± 1.5)	9.75 (± 1.5)	13.3	10.45	PASS

Conducted powers were measured for each Mode/Band and applied condition. All conducted power measurements were verified to be within tolerance.

8.5.4 Notes for WLAN

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- The WLAN chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the identical mechanical structure to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- The worst case configurations were evaluated for both variant 1 and variant 2. The variant with highest report SAR value was selected for remaining test configurations.

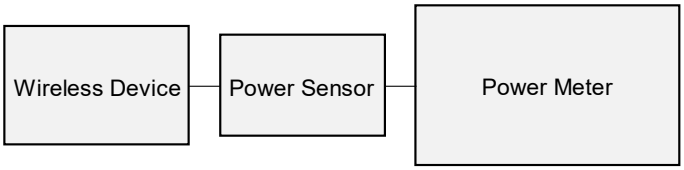


Figure 8-4
Power Measurement Setup

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8.6 Bluetooth Conducted Powers

Table 8-364
Maximum Bluetooth Average RF Power – Ant 4a – Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.21	20.941
2441	GFSK	1.0	39	13.43	22.029
2480	GFSK	1.0	78	**13.45**	22.131

Table 8-365
Maximum Bluetooth Average RF Power – Ant 2a – Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.51	22.439
2441	GFSK	1.0	39	**13.69**	23.388
2480	GFSK	1.0	78	13.49	22.336

Table 8-366
Maximum Bluetooth Average RF Power – Ant 4a – Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.07	20.277
2441	GFSK	1.0	39	12.94	19.679
2480	GFSK	1.0	78	**13.22**	20.989

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Table 8-367
Maximum Bluetooth Average RF Power – Ant 2a – Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.28	21.281
2441	GFSK	1.0	39	13.37	21.727
2480	GFSK	1.0	78	**13.54**	22.594

Table 8-368
Reduced Bluetooth Average RF Power – Ant 4a – Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	**6.49**	4.457
2441	GFSK	1.0	39	6.10	4.074
2480	GFSK	1.0	78	6.16	4.130

Table 8-369
Reduced Power Level 1 Bluetooth Average RF Power – Ant 2a – Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	10.23	10.544
2441	GFSK	1.0	39	**10.75**	11.885
2480	GFSK	1.0	78	10.44	11.066

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Table 8-370
Reduced Power Level 2 Bluetooth Average RF Power – Ant 2a – Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.59	4.560
2441	GFSK	1.0	39	6.71	4.688
2480	GFSK	1.0	78	**6.87**	4.864

Table 8-371
Reduced Bluetooth Average RF Power – Ant 4a – Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.95	3.936
2441	GFSK	1.0	39	6.19	4.159
2480	GFSK	1.0	78	**6.27**	4.236

Table 8-372
Reduced Power Level 1 Bluetooth Average RF Power – Ant 2a – Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	10.75	11.885
2441	GFSK	1.0	39	10.76	11.912
2480	GFSK	1.0	78	**10.77**	11.940

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Table 8-373
Reduced Power Level 2 Bluetooth Average RF Power – Ant 2a – Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.59	4.560
2441	GFSK	1.0	39	6.71	4.688
2480	GFSK	1.0	78	**6.82**	4.808

Note: The bolded data rates and channel above were tested for SAR.

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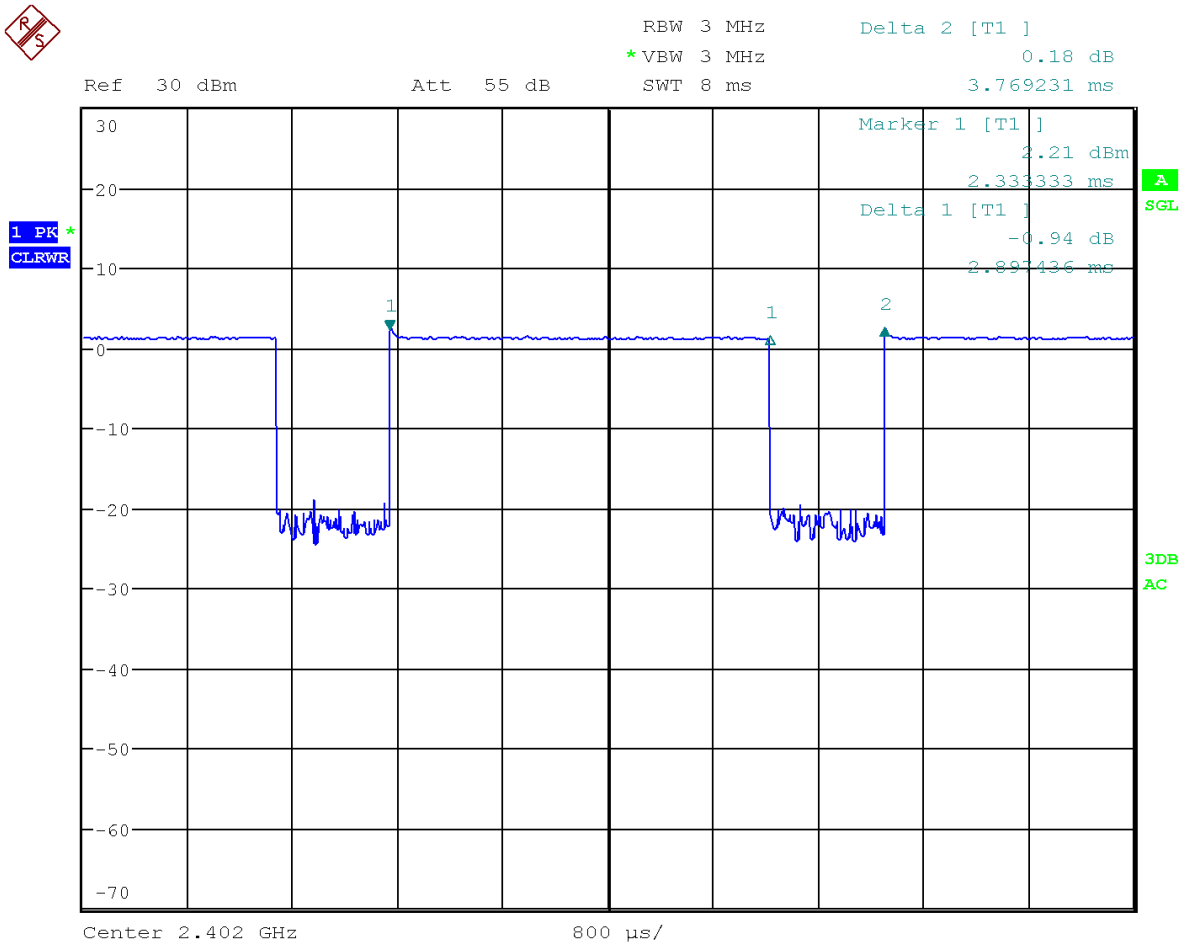


Figure 8-5
Bluetooth Transmission Plot – Ant 4a – Variant 1

Equation 8-1
Bluetooth Duty Cycle Calculation – Ant 4a – Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.8974ms}{3.7692ms} * 100\% = 76.9\%$$

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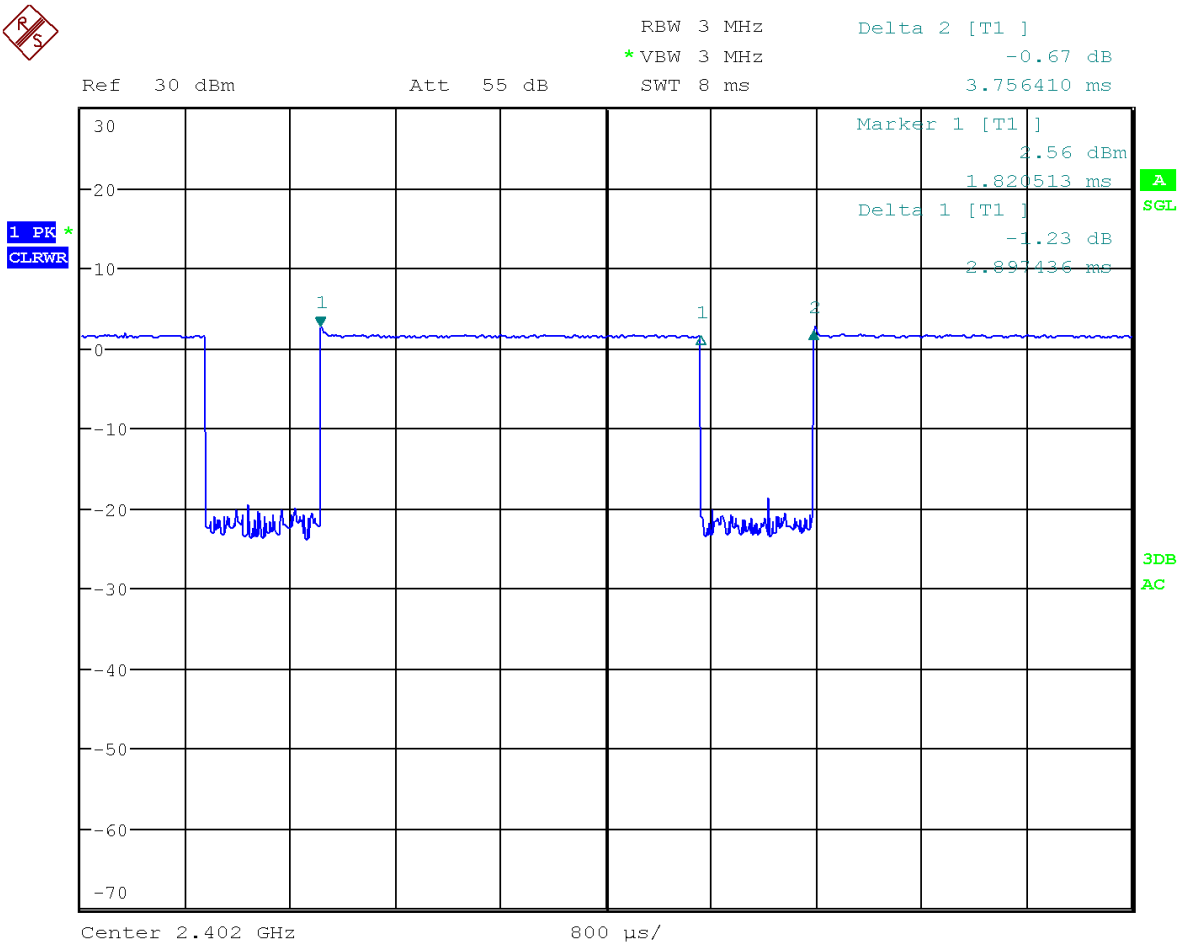


Figure 8-6
Bluetooth Transmission Plot – Ant 2a – Variant 1

Equation 8-2
Bluetooth Duty Cycle Calculation – Ant 2a – Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.8974ms}{3.7564ms} * 100\% = 77.1\%$$

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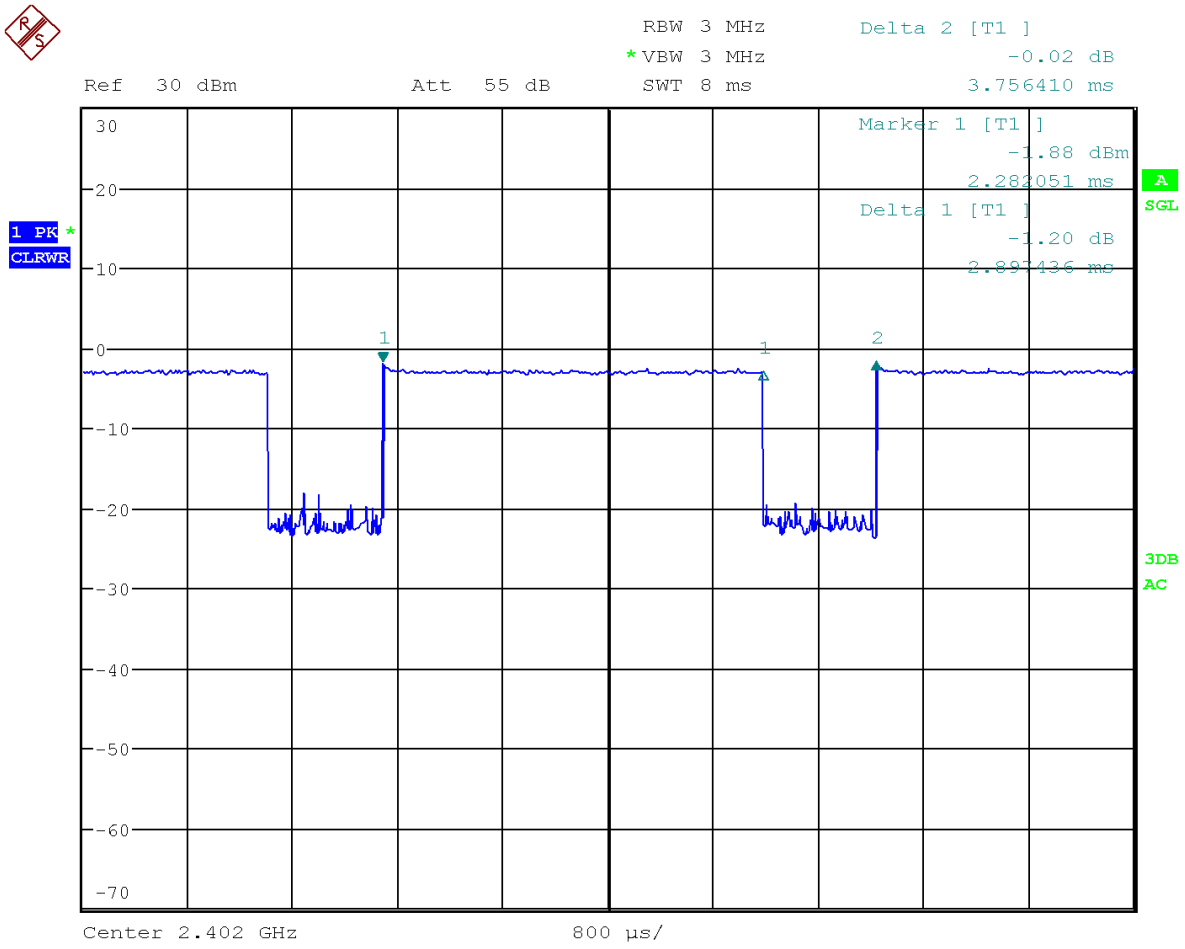


Figure 8-7
Bluetooth Transmission Plot – Ant 4a – Variant 2

Equation 8-3
Bluetooth Duty Cycle Calculation – Ant 4a – Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.8974ms}{3.7564ms} * 100\% = 77.1\%$$

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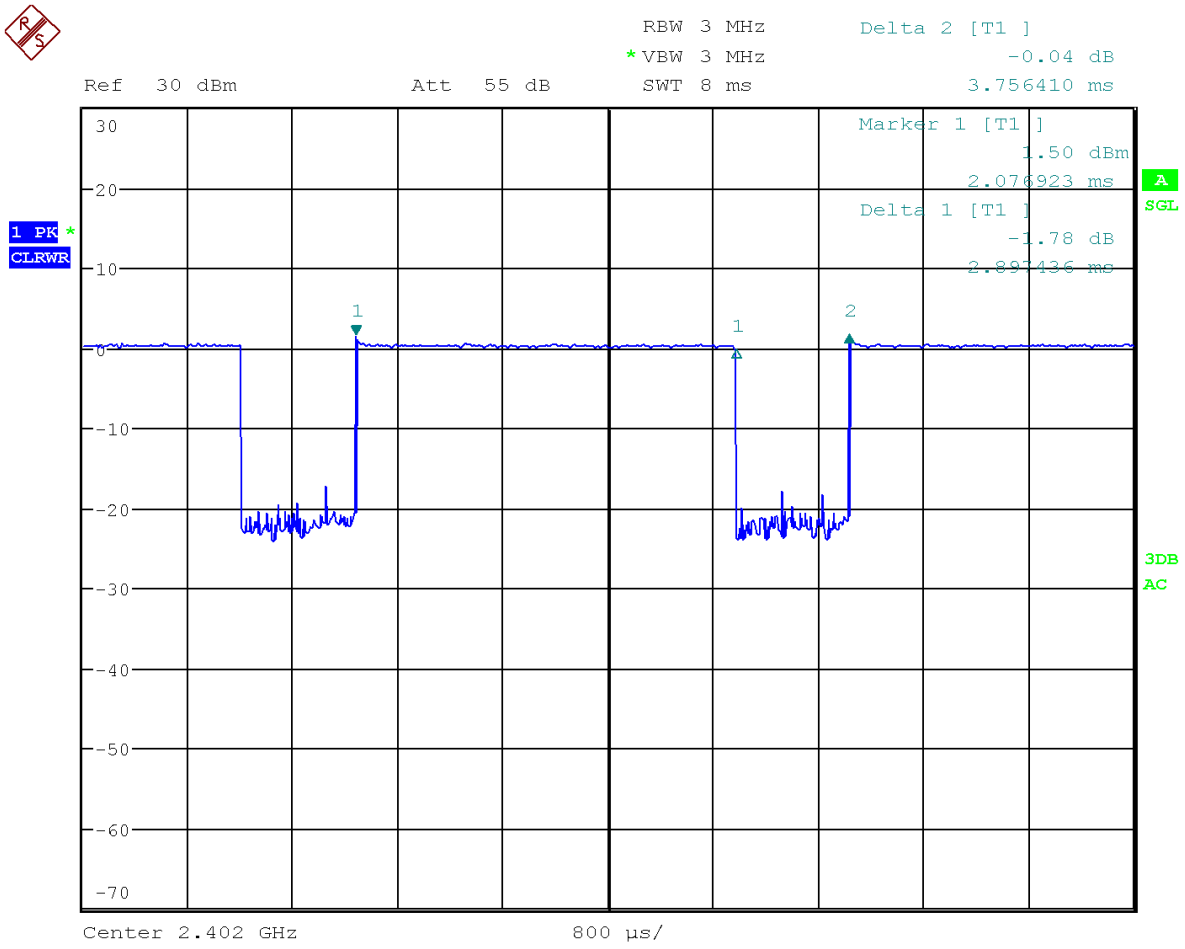


Figure 8-8
Bluetooth Transmission Plot – Ant 2a – Variant 2

Equation 8-4
Bluetooth Duty Cycle Calculation – Ant 2a – Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.8974ms}{3.7564ms} * 100\% = 77.1\%$$

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8.6.1 Bluetooth Power Reduction Verification Summary

Table 8-374
Bluetooth Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Target Power [dBm] (Tolerance [dB])	Reduced Target Power [dBm] (Tolerance [dB])	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
ANT4a	2.4 GHz Bluetooth	Main Band ANT3/4a/4b ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	13.11	6.61	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	13.11	6.2	PASS
ANT2a	2.4 GHz Bluetooth	5 GHz WLAN ON	14	11	12.50 (+1.5/-2)	9.50 (+1.5/-2)	12.26	8.6	PASS
	2.4 GHz Bluetooth	Main Band ANT1/2a/2b ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	13.25	6.92	PASS
	2.4 GHz Bluetooth	5 GHz WLAN ON, Main Band ANT1/2a/2b ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	13.33	6.9	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	13.33	6.45	PASS
	2.4 GHz Bluetooth	5 GHz WLAN ON, Interband ULCA ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	13.33	6.62	PASS

Conducted powers were measured for each Mode/Band applied condition. All conducted power measurements were verified to be within tolerance.

8.6.2 Notes for Bluetooth

- The Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the identical mechanical structure to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- Bluetooth SAR worst case configuration was evaluated for both Variant 1 and Variant 2. The variant with highest reported SAR value was selected for the remaining test configurations.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

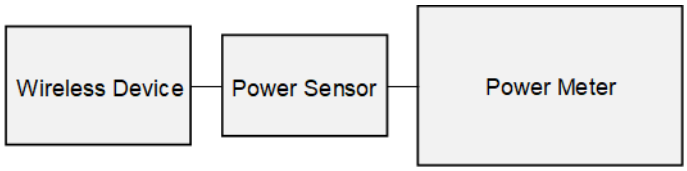


Figure 8-9
Power Measurement Setup

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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
1/5/2020	750B	21.5	680	0.913	55.753	0.958	55.804	-4.70%	-0.09%
			695	0.920	55.686	0.959	55.745	-4.07%	-0.11%
			700	0.922	55.622	0.959	55.726	-3.86%	-0.19%
			710	0.927	55.409	0.960	55.687	-3.44%	-0.50%
			720	0.934	55.150	0.961	55.648	-2.81%	-0.89%
			725	0.940	55.023	0.961	55.629	-2.19%	-1.09%
			740	0.961	54.713	0.963	55.570	-0.21%	-1.54%
			755	0.985	54.597	0.964	55.512	2.18%	-1.65%
			770	0.992	54.647	0.965	55.453	2.80%	-1.45%
			785	0.995	54.671	0.966	55.395	3.00%	-1.31%
			800	0.997	54.508	0.967	55.336	3.10%	-1.50%
1/7/2020	750B	22.5	680	0.913	55.794	0.958	55.804	-4.70%	-0.02%
			695	0.923	55.762	0.959	55.745	-3.75%	0.03%
			700	0.926	55.719	0.959	55.726	-3.44%	-0.01%
			710	0.932	55.566	0.960	55.687	-2.92%	-0.22%
			720	0.940	55.358	0.961	55.648	-2.19%	-0.52%
			725	0.946	55.249	0.961	55.629	-1.56%	-0.68%
			740	0.963	54.960	0.963	55.570	0.00%	-1.10%
			755	0.982	54.813	0.964	55.512	1.87%	-1.26%
			770	0.998	54.787	0.965	55.453	3.42%	-1.20%
			785	1.008	54.766	0.966	55.395	4.35%	-1.14%
			800	1.012	54.644	0.967	55.336	4.65%	-1.25%
12/26/2019	835B	19.2	820	0.998	54.505	0.969	55.258	1.96%	-1.36%
			835	1.002	54.270	0.970	55.200	3.30%	-1.68%
			850	1.020	54.079	0.988	55.154	3.24%	-1.95%
12/30/2019	835B	19.1	820	0.955	54.991	0.969	55.258	-1.44%	-0.48%
			835	0.976	54.515	0.970	55.200	0.62%	-1.24%
			850	1.007	54.202	0.988	55.154	1.92%	-1.56%
1/9/2020	835B	19.8	820	0.994	56.315	0.969	55.258	2.58%	1.91%
			835	1.001	56.021	0.970	55.200	3.20%	1.49%
			850	1.015	55.807	0.988	55.154	2.73%	1.18%
1/15/2020	835B	18.4	800	0.959	56.349	0.967	55.336	-0.87%	1.83%
			820	0.969	55.925	0.969	55.258	0.00%	1.21%
			835	0.969	55.563	0.970	55.200	1.96%	0.66%
			850	1.015	55.369	0.988	55.154	2.73%	0.39%
1/7/2020	1750B	19.4	1710	1.474	51.639	1.463	53.537	0.75%	-3.55%
			1750	1.509	51.554	1.488	53.432	1.41%	-3.51%
			1790	1.550	51.501	1.514	53.326	2.38%	-3.42%
1/21/2020	1750B	18.4	1710	1.447	52.452	1.463	53.537	-1.09%	-2.03%
			1750	1.484	52.302	1.488	53.432	-0.27%	-2.11%
			1790	1.525	52.205	1.514	53.326	0.73%	-2.10%
12/30/2019	1900B	18.8	1850	1.460	51.427	1.520	53.300	-3.95%	-3.51%
			1880	1.467	51.318	1.520	53.300	-3.49%	-3.72%
			1910	1.503	51.149	1.520	53.300	-1.12%	-4.04%
1/7/2020	1900B	21.6	1850	1.506	51.740	1.520	53.300	-0.92%	-2.93%
			1880	1.536	51.693	1.520	53.300	1.05%	-3.02%
			1910	1.564	51.625	1.520	53.300	2.89%	-3.14%
1/15/2020	1900B	20.5	1850	1.501	52.547	1.520	53.300	-1.25%	-1.41%
			1880	1.528	52.437	1.520	53.300	0.53%	-1.62%
			1910	1.561	52.341	1.520	53.300	2.70%	-1.80%
1/18/2020	1900B	21.5	1850	1.551	52.272	1.520	53.300	2.04%	-1.93%
			1880	1.567	52.249	1.520	53.300	3.09%	-1.97%
			1910	1.587	52.218	1.520	53.300	4.41%	-2.03%
1/19/2020	2300B	22.2	2300	1.849	51.290	1.809	52.900	2.21%	-3.04%
			2310	1.866	51.325	1.816	52.887	2.75%	-2.95%
			2320	1.876	51.364	1.826	52.873	2.74%	-2.85%
12/20/2019	2450B	20.7	2400	1.974	51.276	1.902	52.767	3.79%	-2.83%
			2450	2.036	51.076	1.950	52.700	4.41%	-3.08%
			2500	2.108	50.870	2.021	52.636	4.30%	-3.36%
1/14/2020	2450B	23.0	2400	1.888	50.952	1.902	52.767	-0.84%	-3.44%
			2450	1.948	50.877	1.950	52.700	-0.10%	-3.46%
			2500	2.022	50.697	2.021	52.636	0.05%	-3.87%
12/26/2019	2450B-2600B	22.0	2400	1.954	52.061	1.902	52.767	2.73%	-1.34%
			2450	2.012	51.869	1.950	52.700	3.18%	-1.58%
			2500	2.094	51.672	2.021	52.636	3.61%	-1.83%
			2500	2.094	51.672	2.021	52.636	3.61%	-1.83%
			2550	2.153	51.431	2.092	52.573	2.92%	-2.17%
			2600	2.236	51.259	2.163	52.509	3.37%	-2.38%
			2600	2.236	51.259	2.163	52.509	3.37%	-2.38%
			2650	2.294	51.017	2.234	52.445	2.69%	-2.72%
			2700	2.374	50.852	2.305	52.382	2.99%	-2.92%
1/5/2020	2450B-2600B	22.3	2400	1.954	51.204	1.902	52.767	2.73%	-2.96%
			2450	2.016	51.029	1.950	52.700	3.38%	-3.17%
			2500	2.090	50.834	2.021	52.636	3.41%	-3.42%
			2500	2.090	50.834	2.021	52.636	3.41%	-3.42%
			2550	2.154	50.657	2.092	52.573	2.96%	-3.64%
			2600	2.233	50.441	2.163	52.509	3.24%	-3.94%
			2600	2.233	50.441	2.163	52.509	3.24%	-3.94%
			2650	2.295	50.242	2.234	52.445	2.73%	-4.20%
			2700	2.375	50.034	2.305	52.382	3.04%	-4.48%
1/7/2020	3500B-3700B	22.3	3500	3.387	49.066	3.314	51.321	2.20%	-4.39%
			3550	3.449	48.971	3.372	51.254	2.28%	-4.45%
			3600	3.524	48.797	3.431	51.186	2.71%	-4.67%
			3645	3.577	48.679	3.483	51.125	2.70%	-4.78%
			3685	3.639	48.560	3.530	51.070	3.09%	-4.91%
			3725	3.689	48.471	3.577	51.016	3.13%	-4.99%
12/16/2019	5200B-5800B	19.3	5180	5.052	47.599	5.276	49.041	-4.25%	-2.94%
			5200	5.080	47.561	5.299	49.014	-4.13%	-2.96%
			5220	5.107	47.557	5.323	48.987	-4.06%	-2.92%
			5240	5.135	47.505	5.346	48.960	-3.95%	-2.97%
			5260	5.166	47.449	5.369	48.933	-3.78%	-3.03%
			5280	5.194	47.397	5.393	48.906	-3.69%	-3.09%
			5300	5.219	47.345	5.416	48.879	-3.64%	-3.14%
			5320	5.255	47.332	5.439	48.851	-3.38%	-3.11%
			5500	5.500	46.988	5.650	48.607	-2.65%	-3.33%
			5520	5.530	46.948	5.673	48.580	-2.52%	-3.36%
			5540	5.560	46.919	5.696	48.553	-2.39%	-3.37%
			5560	5.582	46.885	5.720	48.526	-2.41%	-3.38%
			5580	5.615	46.841	5.743	48.499	-2.23%	-3.42%
			5600	5.648	46.793	5.766	48.471	-2.05%	-3.46%
			5620	5.678	46.752	5.790	48.444	-1.93%	-3.49%
			5640	5.708	46.723	5.813	48.417	-1.81%	-3.50%
			5660	5.733	46.691	5.837	48.390	-1.78%	-3.51%
			5680	5.763	46.652	5.860	48.363	-1.66%	-3.54%
			5700	5.793	46.596	5.883	48.336	-1.53%	-3.60%
			5745	5.863	46.532	5.936	48.275	-1.23%	-3.61%
			5765	5.889	46.498	5.959	48.248	-1.17%	-3.63%
			5785	5.918	46.445	5.982	48.220	-1.07%	-3.68%
			5800	5.945	46.413	6.000	48.200	-0.92%	-3.71%
			5805	5.954	46.398	6.006	48.193	-0.87%	-3.72%
			5825	5.980	46.363	6.029	48.166	-0.81%	-3.74%

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 D01v01r04 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 ±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 D.

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)	Source SN	Probe SN	Measured SAR_{1g} (W/kg)	1 W Target SAR_{1g} (W/kg)	1 W Normalized SAR_{1g} (W/kg)	$Deviation_{1g}$ (%)
AM1	750	BODY	01/05/2020	20.0	21.5	0.200	1097	7421	1.770	8.560	8.850	3.39%
AM1	750	BODY	01/07/2020	20.5	20.5	0.200	1097	7421	1.760	8.560	8.800	2.80%
AM7	835	BODY	12/26/2019	22.6	20.1	0.200	4d040	3837	2.040	9.530	10.200	7.03%
AM8	835	BODY	12/30/2019	20.0	19.1	0.200	4d040	7416	1.900	9.530	9.500	-0.31%
AM8	835	BODY	01/09/2020	22.0	19.8	0.200	4d040	7416	1.890	9.530	9.450	-0.84%
AM8	835	BODY	01/15/2020	20.0	18.4	0.200	4d040	7416	1.810	9.530	9.050	-5.04%
AM8	1750	BODY	01/07/2020	20.3	19.4	0.100	1083	7416	3.810	37.100	38.100	2.70%
AM6	1750	BODY	01/21/2020	23.8	18.4	0.100	1083	7427	3.420	37.100	34.200	-7.82%
AM5	1900	BODY	12/30/2019	21.7	19.0	0.100	5d026	7491	4.180	39.900	41.800	4.76%
AM5	1900	BODY	01/07/2020	21.7	20.4	0.100	5d026	7491	4.020	39.900	40.200	0.75%
AM1	1900	BODY	01/15/2020	21.5	19.8	0.100	5d026	7421	4.100	39.900	41.000	2.76%
AM2	1900	BODY	01/18/2020	19.9	20.5	0.100	5d026	7420	4.190	39.900	41.900	5.01%
AM4	2300	BODY	01/19/2020	22.4	20.4	0.100	1038	7532	4.450	46.700	44.500	-4.71%
AM4	2450	BODY	12/20/2019	21.0	20.0	0.100	921	7532	5.360	50.800	53.600	5.51%
AM4	2450	BODY	12/26/2019	21.6	20.7	0.100	921	7532	5.260	50.800	52.600	3.54%
AM4	2450	BODY	01/05/2020	22.2	21.0	0.100	921	7532	5.260	50.800	52.600	3.54%
AM4	2450	BODY	01/14/2020	22.1	21.0	0.100	921	7532	5.120	50.800	51.200	0.79%
AM4	2600	BODY	12/26/2019	21.6	20.7	0.100	1069	7532	5.610	55.300	56.100	1.45%
AM4	2600	BODY	01/05/2020	22.2	21.0	0.100	1069	7532	5.380	55.300	53.800	-2.71%
AM3	3500	BODY	01/07/2020	22.3	21.0	0.100	1068	3949	6.330	65.300	63.300	-3.06%
AM3	3700	BODY	01/07/2020	22.3	21.0	0.100	1029	3949	6.390	64.900	63.900	-1.54%
AM7	5250	BODY	12/16/2019	22.6	21.0	0.050	1123	3837	3.470	74.000	69.400	-6.22%
AM7	5600	BODY	12/16/2019	22.6	21.0	0.050	1123	3837	3.580	77.600	71.600	-7.73%
AM7	5750	BODY	12/16/2019	22.6	21.0	0.050	1123	3837	3.520	74.700	70.400	-5.76%

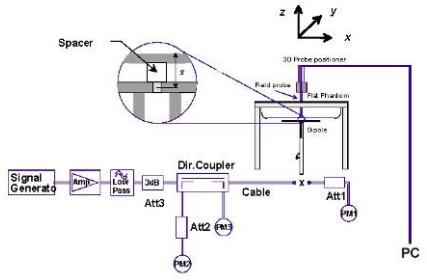


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10.1 Standalone Body SAR Data

Table 10-1
GPRS 850 MHz Ant 1 Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)		(W/kg)	(W/kg)	(W/kg)	
836.60	190	GSM 850	GPRS	26.8	26.39	0.04	Body	0 mm	Ant 1	DLXZR02WP7GX	2	1:4.15	back	0.449	1.099	0.493	0.181	0.199	
836.60	190	GSM 850	GPRS	26.8	26.39	-0.02	Body	0 mm	Ant 1	DLXZR02WP7GX	2	1:4.15	top	0.042	1.099	0.046	0.021	0.023	
836.60	190	GSM 850	GPRS	26.8	26.39	-0.01	Body	0 mm	Ant 1	DLXZR02WP7GX	2	1:4.15	bottom	0.365	1.099	0.401	0.140	0.154	
836.60	190	GSM 850	GPRS	26.8	26.39	-0.03	Body	0 mm	Ant 1	DLXZR02WP7GX	2	1:4.15	right	0.014	1.099	0.015	0.007	0.008	
824.20	128	GSM 850	GPRS	26.8	26.55	0.07	Body	0 mm	Ant 1	DLXZR02WP7GX	2	1:4.15	left	1.050	1.059	1.112	0.310	0.328	A1
836.60	190	GSM 850	GPRS	26.8	26.39	-0.18	Body	0 mm	Ant 1	DLXZR02WP7GX	2	1:4.15	left	0.663	1.099	0.729	0.235	0.258	
848.80	251	GSM 850	GPRS	26.8	26.36	-0.04	Body	0 mm	Ant 1	DLXZR02WP7GX	2	1:4.15	left	0.581	1.107	0.643	0.208	0.230	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-2
GPRS 850 MHz Ant 3 Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)		(W/kg)	(W/kg)	(W/kg)	
824.20	128	GSM 850	GPRS	27.3	26.30	0.08	Body	0 mm	Ant 3	DLXZR00GP7GX	2	1:4.15	back	0.862	1.259	1.085	0.439	0.553	
836.60	190	GSM 850	GPRS	27.3	26.29	0.09	Body	0 mm	Ant 3	DLXZR00GP7GX	2	1:4.15	back	0.754	1.262	0.952	0.383	0.483	
848.80	251	GSM 850	GPRS	27.3	26.21	-0.09	Body	0 mm	Ant 3	DLXZR00GP7GX	2	1:4.15	back	0.683	1.285	0.878	0.347	0.446	
836.60	190	GSM 850	GPRS	27.3	26.29	-0.03	Body	0 mm	Ant 3	DLXZR00GP7GX	2	1:4.15	top	0.480	1.262	0.606	0.182	0.230	
836.60	190	GSM 850	GPRS	27.3	26.29	-0.04	Body	0 mm	Ant 3	DLXZR00GP7GX	2	1:4.15	bottom	0.027	1.262	0.034	0.015	0.019	
824.20	128	GSM 850	GPRS	27.3	26.30	-0.05	Body	0 mm	Ant 3	DLXZR00GP7GX	2	1:4.15	right	0.793	1.259	0.998	0.281	0.354	
836.60	190	GSM 850	GPRS	27.3	26.29	0.00	Body	0 mm	Ant 3	DLXZR00GP7GX	2	1:4.15	right	0.659	1.262	0.832	0.223	0.281	
848.80	251	GSM 850	GPRS	27.3	26.21	0.00	Body	0 mm	Ant 3	DLXZR00GP7GX	2	1:4.15	right	0.613	1.285	0.788	0.219	0.281	
836.60	190	GSM 850	GPRS	27.3	26.29	0.04	Body	0 mm	Ant 3	DLXZR00GP7GX	2	1:4.15	left	0.013	1.262	0.016	0.006	0.008	
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
GPRS 1900 MHz Ant 2a Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1850.20	512	GSM 1900	GPRS	21.8	21.04	-0.05	Body	0 mm	Ant 2a	DLXZR00TP7GX	2	1:4.15	back	0.891	1.191	1.061	0.421	0.501	
1880.00	661	GSM 1900	GPRS	21.8	20.87	0.01	Body	0 mm	Ant 2a	DLXZR00TP7GX	2	1:4.15	back	0.858	1.239	1.063	0.407	0.504	
1909.80	810	GSM 1900	GPRS	21.8	20.98	0.00	Body	0 mm	Ant 2a	DLXZR00TP7GX	2	1:4.15	back	0.864	1.208	1.044	0.404	0.488	
1880.00	661	GSM 1900	GPRS	21.8	20.87	0.03	Body	0 mm	Ant 2a	DLXZR00TP7GX	2	1:4.15	top	0.017	1.239	0.021	0.007	0.009	
1880.00	661	GSM 1900	GPRS	21.8	20.87	0.07	Body	0 mm	Ant 2a	DLXZR00TP7GX	2	1:4.15	bottom	0.312	1.239	0.387	0.117	0.145	
1850.20	512	GSM 1900	GPRS	21.8	21.04	-0.11	Body	0 mm	Ant 2a	DLXZR00TP7GX	2	1:4.15	right	0.828	1.191	0.986	0.337	0.401	
1880.00	661	GSM 1900	GPRS	21.8	20.87	-0.06	Body	0 mm	Ant 2a	DLXZR00TP7GX	2	1:4.15	right	0.777	1.239	0.963	0.311	0.385	
1909.80	810	GSM 1900	GPRS	21.8	20.98	-0.06	Body	0 mm	Ant 2a	DLXZR00TP7GX	2	1:4.15	right	0.796	1.208	0.962	0.318	0.384	
1880.00	661	GSM 1900	GPRS	21.8	20.87	-0.06	Body	0 mm	Ant 2a	DLXZR00TP7GX	2	1:4.15	left	0.001	1.239	0.001	0.000	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											

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Table 10-4
GPRS 1900 MHz Ant 2b Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1850.20	512	GSM 1900	GPRS	20.5	19.82	-0.02	Body	0 mm	Ant 2b	DLXZR00TP7GX	2	1:4.15	back	0.854	1.169	0.998	0.350	0.409	
1880.00	661	GSM 1900	GPRS	20.5	19.56	0.04	Body	0 mm	Ant 2b	DLXZR00TP7GX	2	1:4.15	back	0.873	1.242	1.084	0.356	0.442	
1909.80	810	GSM 1900	GPRS	20.5	19.74	-0.04	Body	0 mm	Ant 2b	DLXZR00TP7GX	2	1:4.15	back	0.817	1.191	0.973	0.343	0.409	
1880.00	661	GSM 1900	GPRS	20.5	19.56	0.03	Body	0 mm	Ant 2b	DLXZR00TP7GX	2	1:4.15	top	0.002	1.242	0.002	0.001	0.001	
1880.00	661	GSM 1900	GPRS	20.5	19.56	-0.04	Body	0 mm	Ant 2b	DLXZR00TP7GX	2	1:4.15	bottom	0.522	1.242	0.648	0.211	0.262	
1880.00	661	GSM 1900	GPRS	20.5	19.56	0.04	Body	0 mm	Ant 2b	DLXZR00TP7GX	2	1:4.15	right	0.031	1.242	0.039	0.014	0.017	
1880.00	661	GSM 1900	GPRS	20.5	19.56	0.03	Body	0 mm	Ant 2b	DLXZR00TP7GX	2	1:4.15	left	0.004	1.242	0.005	0.001	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-5
GPRS 1900 MHz Ant 4a Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1850.20	512	GSM 1900	GPRS	20.9	20.87	-0.08	Body	0 mm	Ant 4a	DLXZR00TP7GX	2	1:4.15	back	0.982	1.007	0.989	0.483	0.486	
1880.00	661	GSM 1900	GPRS	20.9	20.73	-0.07	Body	0 mm	Ant 4a	DLXZR00TP7GX	2	1:4.15	back	0.983	1.040	1.022	0.480	0.499	
1909.80	810	GSM 1900	GPRS	20.9	20.88	-0.05	Body	0 mm	Ant 4a	DLXZR00TP7GX	2	1:4.15	back	1.020	1.005	1.025	0.493	0.495	A2
1880.00	661	GSM 1900	GPRS	20.9	20.73	-0.03	Body	0 mm	Ant 4a	DLXZR00TP7GX	2	1:4.15	top	0.319	1.040	0.332	0.121	0.126	
1880.00	661	GSM 1900	GPRS	20.9	20.73	0.12	Body	0 mm	Ant 4a	DLXZR00TP7GX	2	1:4.15	bottom	0.016	1.040	0.017	0.007	0.007	
1880.00	661	GSM 1900	GPRS	20.9	20.73	0.07	Body	0 mm	Ant 4a	DLXZR00TP7GX	2	1:4.15	right	0.000	1.040	0.000	0.000	0.000	
1850.20	512	GSM 1900	GPRS	20.9	20.87	-0.04	Body	0 mm	Ant 4a	DLXZR00TP7GX	2	1:4.15	left	0.858	1.007	0.864	0.356	0.358	
1880.00	661	GSM 1900	GPRS	20.9	20.73	-0.06	Body	0 mm	Ant 4a	DLXZR00TP7GX	2	1:4.15	left	0.804	1.040	0.836	0.340	0.354	
1909.80	810	GSM 1900	GPRS	20.9	20.88	-0.19	Body	0 mm	Ant 4a	DLXZR00TP7GX	2	1:4.15	left	0.949	1.005	0.954	0.380	0.382	
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
GPRS 1900 MHz Ant 4b Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1850.20	512	GSM 1900	GPRS	21.0	19.88	0.00	Body	0 mm	Ant 4b	DLXZR00GP7GX	2	1:4.15	back	0.742	1.294	0.960	0.307	0.397	
1880.00	661	GSM 1900	GPRS	21.0	19.64	0.02	Body	0 mm	Ant 4b	DLXZR00GP7GX	2	1:4.15	back	0.709	1.368	0.970	0.292	0.399	
1909.80	810	GSM 1900	GPRS	21.0	19.57	0.04	Body	0 mm	Ant 4b	DLXZR00GP7GX	2	1:4.15	back	0.767	1.390	1.066	0.311	0.432	
1850.20	512	GSM 1900	GPRS	21.0	19.88	-0.02	Body	0 mm	Ant 4b	DLXZR00GP7GX	2	1:4.15	top	0.535	1.294	0.692	0.214	0.277	
1880.00	661	GSM 1900	GPRS	21.0	19.64	0.00	Body	0 mm	Ant 4b	DLXZR00GP7GX	2	1:4.15	top	0.621	1.368	0.850	0.243	0.332	
1909.80	810	GSM 1900	GPRS	21.0	19.57	-0.05	Body	0 mm	Ant 4b	DLXZR00GP7GX	2	1:4.15	top	0.552	1.390	0.767	0.220	0.306	
1880.00	661	GSM 1900	GPRS	21.0	19.64	0.06	Body	0 mm	Ant 4b	DLXZR00GP7GX	2	1:4.15	bottom	0.005	1.368	0.007	0.001	0.001	
1880.00	661	GSM 1900	GPRS	21.0	19.64	0.07	Body	0 mm	Ant 4b	DLXZR00GP7GX	2	1:4.15	right	0.009	1.368	0.012	0.003	0.004	
1880.00	661	GSM 1900	GPRS	21.0	19.64	0.09	Body	0 mm	Ant 4b	DLXZR00GP7GX	2	1:4.15	left	0.046	1.368	0.063	0.019	0.026	
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 10-7
UMTS 850 MHz Ant 1 Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
836.60	4183	UMTS 850	RMC	20.6	20.60	-0.05	Body	0 mm	Ant 1	DLXZR00TP7GX	1:1	back	0.459	1.000	0.459	0.187	0.187	
836.60	4183	UMTS 850	RMC	20.6	20.60	0.06	Body	0 mm	Ant 1	DLXZR00TP7GX	1:1	top	0.034	1.000	0.034	0.019	0.019	
836.60	4183	UMTS 850	RMC	20.6	20.60	0.06	Body	0 mm	Ant 1	DLXZR00TP7GX	1:1	bottom	0.492	1.000	0.492	0.185	0.185	
836.60	4183	UMTS 850	RMC	20.6	20.60	-0.02	Body	0 mm	Ant 1	DLXZR00TP7GX	1:1	right	0.010	1.000	0.010	0.005	0.005	
826.40	4132	UMTS 850	RMC	20.6	20.57	0.13	Body	0 mm	Ant 1	DLXZR00TP7GX	1:1	left	1.160	1.007	1.168	0.327	0.329	A3
836.60	4183	UMTS 850	RMC	20.6	20.60	-0.16	Body	0 mm	Ant 1	DLXZR00TP7GX	1:1	left	0.767	1.000	0.767	0.272	0.272	
846.60	4233	UMTS 850	RMC	20.6	20.59	-0.18	Body	0 mm	Ant 1	DLXZR00TP7GX	1:1	left	0.721	1.002	0.722	0.254	0.255	
826.40	4132	UMTS 850	RMC	20.6	20.57	-0.17	Body	0 mm	Ant 1	DLXZR00TP7GX	1:1	left	1.050	1.007	1.057	0.339	0.341	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement.

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Table 10-8
UMTS 850 MHz Ant 3 Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
826.40	4132	UMTS 850	RMC	20.3	20.07	0.06	Body	0 mm	Ant 3	DLXZR032P7GX	1:1	back	0.950	1.054	1.001	0.483	0.509	
836.60	4183	UMTS 850	RMC	20.3	20.15	0.10	Body	0 mm	Ant 3	DLXZR032P7GX	1:1	back	0.845	1.035	0.875	0.426	0.441	
846.60	4233	UMTS 850	RMC	20.3	20.03	0.11	Body	0 mm	Ant 3	DLXZR032P7GX	1:1	back	0.803	1.064	0.854	0.420	0.447	
836.60	4183	UMTS 850	RMC	20.3	20.15	0.07	Body	0 mm	Ant 3	DLXZR032P7GX	1:1	top	0.536	1.035	0.555	0.207	0.214	
836.60	4183	UMTS 850	RMC	20.3	20.15	-0.04	Body	0 mm	Ant 3	DLXZR032P7GX	1:1	bottom	0.000	1.035	0.000	0.000	0.000	
836.60	4183	UMTS 850	RMC	20.3	20.15	0.02	Body	0 mm	Ant 3	DLXZR032P7GX	1:1	right	0.729	1.035	0.755	0.261	0.270	
836.60	4183	UMTS 850	RMC	20.3	20.15	-0.01	Body	0 mm	Ant 3	DLXZR032P7GX	1:1	left	0.010	1.035	0.010	0.005	0.005	
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 10-9
UMTS 1750 MHz Ant 2a Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	14.75	14.17	-0.02	Body	0 mm	Ant 2a	DLXZR00TP7GX	1:1	back	0.903	1.143	1.032	0.443	0.506	
1732.40	1412	UMTS 1750	RMC	14.75	14.39	-0.06	Body	0 mm	Ant 2a	DLXZR00TP7GX	1:1	back	0.905	1.086	0.983	0.437	0.475	
1752.60	1513	UMTS 1750	RMC	14.75	13.93	-0.07	Body	0 mm	Ant 2a	DLXZR00TP7GX	1:1	back	0.898	1.208	1.085	0.430	0.519	
1732.40	1412	UMTS 1750	RMC	14.75	14.39	0.05	Body	0 mm	Ant 2a	DLXZR00TP7GX	1:1	top	0.009	1.086	0.010	0.004	0.004	
1732.40	1412	UMTS 1750	RMC	14.75	14.39	-0.02	Body	0 mm	Ant 2a	DLXZR00TP7GX	1:1	bottom	0.242	1.086	0.263	0.097	0.105	
1732.40	1412	UMTS 1750	RMC	14.75	14.39	0.04	Body	0 mm	Ant 2a	DLXZR00TP7GX	1:1	right	0.684	1.086	0.743	0.275	0.299	
1732.40	1412	UMTS 1750	RMC	14.75	14.39	-0.05	Body	0 mm	Ant 2a	DLXZR00TP7GX	1:1	left	0.001	1.086	0.001	0.000	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										

Table 10-10
UMTS 1750 MHz Ant 2b Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	14.9	14.47	-0.02	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	back	0.951	1.104	1.050	0.391	0.432	
1732.40	1412	UMTS 1750	RMC	14.9	14.49	-0.01	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	back	0.922	1.099	1.013	0.381	0.419	
1752.60	1513	UMTS 1750	RMC	14.9	14.27	0.00	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	back	0.954	1.156	1.103	0.396	0.458	
1732.40	1412	UMTS 1750	RMC	14.9	14.49	0.02	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	top	0.001	1.099	0.001	0.001	0.001	
1732.40	1412	UMTS 1750	RMC	14.9	14.49	-0.02	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	bottom	0.597	1.099	0.656	0.238	0.262	
1732.40	1412	UMTS 1750	RMC	14.9	14.49	0.00	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	right	0.045	1.099	0.049	0.019	0.021	
1732.40	1412	UMTS 1750	RMC	14.9	14.49	0.03	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	left	0.008	1.099	0.009	0.004	0.004	
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 10-11
UMTS 1750 MHz Ant 4a Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	14.5	14.33	0.01	Body	0 mm	Ant 4a	DLXZR009P7GX	1:1	back	0.926	1.040	0.963	0.437	0.454	
1732.40	1412	UMTS 1750	RMC	14.5	14.29	0.01	Body	0 mm	Ant 4a	DLXZR009P7GX	1:1	back	0.964	1.050	1.012	0.455	0.478	A4
1752.60	1513	UMTS 1750	RMC	14.5	14.02	0.01	Body	0 mm	Ant 4a	DLXZR009P7GX	1:1	back	0.924	1.117	1.032	0.434	0.485	
1732.40	1412	UMTS 1750	RMC	14.5	14.29	-0.04	Body	0 mm	Ant 4a	DLXZR009P7GX	1:1	top	0.220	1.050	0.231	0.085	0.089	
1732.40	1412	UMTS 1750	RMC	14.5	14.29	0.02	Body	0 mm	Ant 4a	DLXZR009P7GX	1:1	bottom	0.012	1.050	0.013	0.005	0.005	
1732.40	1412	UMTS 1750	RMC	14.5	14.29	0.00	Body	0 mm	Ant 4a	DLXZR009P7GX	1:1	right	0.000	1.050	0.000	0.000	0.000	
1732.40	1412	UMTS 1750	RMC	14.5	14.29	-0.05	Body	0 mm	Ant 4a	DLXZR009P7GX	1:1	left	0.724	1.050	0.760	0.291	0.306	
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 10-12
UMTS 1750 MHz Ant 4b Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	14.5	14.04	-0.05	Body	0 mm	Ant 4b	DLXZR00TP7GX	1:1	back	0.898	1.112	0.999	0.377	0.419	
1732.40	1412	UMTS 1750	RMC	14.5	14.00	-0.05	Body	0 mm	Ant 4b	DLXZR00TP7GX	1:1	back	0.871	1.122	0.977	0.365	0.410	
1752.60	1513	UMTS 1750	RMC	14.5	13.85	-0.05	Body	0 mm	Ant 4b	DLXZR00TP7GX	1:1	back	0.865	1.161	1.004	0.362	0.420	
1732.40	1412	UMTS 1750	RMC	14.5	14.00	0.03	Body	0 mm	Ant 4b	DLXZR00TP7GX	1:1	top	0.506	1.122	0.568	0.203	0.228	
1732.40	1412	UMTS 1750	RMC	14.5	14.00	0.17	Body	0 mm	Ant 4b	DLXZR00TP7GX	1:1	bottom	0.002	1.122	0.002	0.001	0.001	
1732.40	1412	UMTS 1750	RMC	14.5	14.00	0.05	Body	0 mm	Ant 4b	DLXZR00TP7GX	1:1	right	0.009	1.122	0.010	0.004	0.004	
1732.40	1412	UMTS 1750	RMC	14.5	14.00	0.12	Body	0 mm	Ant 4b	DLXZR00TP7GX	1:1	left	0.044	1.122	0.049	0.019	0.021	
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 10-13
UMTS 1900 MHz Ant 2a Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	15.1	14.93	0.02	Body	0 mm	Ant 2a	DLXZR02WP7GX	1:1	back	1.000	1.040	1.040	0.491	0.511	
1880.00	9400	UMTS 1900	RMC	15.1	15.01	0.03	Body	0 mm	Ant 2a	DLXZR02WP7GX	1:1	back	0.995	1.021	1.016	0.487	0.497	
1907.60	9538	UMTS 1900	RMC	15.1	15.02	0.01	Body	0 mm	Ant 2a	DLXZR02WP7GX	1:1	back	0.996	1.019	1.015	0.462	0.471	
1880.00	9400	UMTS 1900	RMC	15.1	15.01	0.03	Body	0 mm	Ant 2a	DLXZR02WP7GX	1:1	top	0.021	1.021	0.021	0.010	0.010	
1880.00	9400	UMTS 1900	RMC	15.1	15.01	-0.11	Body	0 mm	Ant 2a	DLXZR02WP7GX	1:1	bottom	0.384	1.021	0.392	0.147	0.150	
1852.40	9262	UMTS 1900	RMC	15.1	14.93	0.00	Body	0 mm	Ant 2a	DLXZR02WP7GX	1:1	right	0.833	1.040	0.866	0.340	0.354	
1880.00	9400	UMTS 1900	RMC	15.1	15.01	-0.06	Body	0 mm	Ant 2a	DLXZR02WP7GX	1:1	right	0.828	1.021	0.845	0.334	0.341	
1907.60	9538	UMTS 1900	RMC	15.1	15.02	0.01	Body	0 mm	Ant 2a	DLXZR02WP7GX	1:1	right	0.819	1.019	0.835	0.331	0.337	
1880.00	9400	UMTS 1900	RMC	15.1	15.01	0.14	Body	0 mm	Ant 2a	DLXZR02WP7GX	1:1	left	0.006	1.021	0.006	0.003	0.003	
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 10-14
UMTS 1900 MHz Ant 2b Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	14.1	13.80	0.00	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	back	1.010	1.072	1.083	0.412	0.442	
1880.00	9400	UMTS 1900	RMC	14.1	13.81	0.01	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	back	1.080	1.069	1.155	0.437	0.467	A5
1907.60	9538	UMTS 1900	RMC	14.1	14.09	0.01	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	back	1.070	1.002	1.072	0.431	0.432	
1880.00	9400	UMTS 1900	RMC	14.1	13.81	-0.06	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	top	0.005	1.069	0.005	0.003	0.003	
1880.00	9400	UMTS 1900	RMC	14.1	13.81	-0.01	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	bottom	0.702	1.069	0.750	0.283	0.303	
1880.00	9400	UMTS 1900	RMC	14.1	13.81	0.08	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	right	0.048	1.069	0.051	0.020	0.021	
1880.00	9400	UMTS 1900	RMC	14.1	13.81	0.08	Body	0 mm	Ant 2b	DLXZR00TP7GX	1:1	left	0.012	1.069	0.013	0.006	0.006	
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 10-15
UMTS 1900 MHz Ant 4a Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	14.9	14.73	-0.01	Body	0 mm	Ant 4a	DLXZR00TP7GX	1:1	back	1.010	1.040	1.050	0.507	0.527	
1880.00	9400	UMTS 1900	RMC	14.9	14.58	-0.02	Body	0 mm	Ant 4a	DLXZR00TP7GX	1:1	back	1.060	1.076	1.141	0.499	0.537	
1907.60	9538	UMTS 1900	RMC	14.9	14.82	0.01	Body	0 mm	Ant 4a	DLXZR00TP7GX	1:1	back	1.030	1.019	1.050	0.514	0.524	
1880.00	9400	UMTS 1900	RMC	14.9	14.58	-0.12	Body	0 mm	Ant 4a	DLXZR00TP7GX	1:1	top	0.402	1.076	0.433	0.153	0.165	
1880.00	9400	UMTS 1900	RMC	14.9	14.58	0.03	Body	0 mm	Ant 4a	DLXZR00TP7GX	1:1	bottom	0.017	1.076	0.018	0.008	0.009	
1880.00	9400	UMTS 1900	RMC	14.9	14.58	0.17	Body	0 mm	Ant 4a	DLXZR00TP7GX	1:1	right	0.002	1.076	0.002	0.001	0.001	
1852.40	9262	UMTS 1900	RMC	14.9	14.73	0.06	Body	0 mm	Ant 4a	DLXZR00TP7GX	1:1	left	0.997	1.040	1.037	0.393	0.409	
1880.00	9400	UMTS 1900	RMC	14.9	14.58	-0.06	Body	0 mm	Ant 4a	DLXZR00TP7GX	1:1	left	1.000	1.076	1.076	0.396	0.426	
1907.60	9538	UMTS 1900	RMC	14.9	14.82	-0.20	Body	0 mm	Ant 4a	DLXZR00TP7GX	1:1	left	0.992	1.019	1.011	0.400	0.408	
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 10-16
UMTS 1900 MHz Ant 4b Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	14.7	13.96	-0.02	Body	0 mm	Ant 4b	DLXZR02WP7GX	1:1	back	0.828	1.186	0.982	0.341	0.404	
1880.00	9400	UMTS 1900	RMC	14.7	13.93	-0.02	Body	0 mm	Ant 4b	DLXZR02WP7GX	1:1	back	0.851	1.194	1.016	0.351	0.419	
1907.60	9538	UMTS 1900	RMC	14.7	13.82	-0.16	Body	0 mm	Ant 4b	DLXZR02WP7GX	1:1	back	0.880	1.225	1.078	0.357	0.437	
1852.40	9262	UMTS 1900	RMC	14.7	13.96	-0.06	Body	0 mm	Ant 4b	DLXZR02WP7GX	1:1	top	0.678	1.186	0.804	0.272	0.323	
1880.00	9400	UMTS 1900	RMC	14.7	13.93	-0.04	Body	0 mm	Ant 4b	DLXZR02WP7GX	1:1	top	0.702	1.194	0.838	0.283	0.338	
1907.60	9538	UMTS 1900	RMC	14.7	13.82	-0.05	Body	0 mm	Ant 4b	DLXZR02WP7GX	1:1	top	0.686	1.225	0.840	0.272	0.333	
1880.00	9400	UMTS 1900	RMC	14.7	13.93	0.19	Body	0 mm	Ant 4b	DLXZR02WP7GX	1:1	bottom	0.007	1.194	0.008	0.004	0.005	
1880.00	9400	UMTS 1900	RMC	14.7	13.93	0.02	Body	0 mm	Ant 4b	DLXZR02WP7GX	1:1	right	0.014	1.194	0.017	0.007	0.008	
1880.00	9400	UMTS 1900	RMC	14.7	13.93	0.12	Body	0 mm	Ant 4b	DLXZR02WP7GX	1:1	left	0.062	1.194	0.074	0.024	0.029	
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 10-17
LTE Band 71 Ant 1 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
680.50	133297	Mid	LTE Band 71	20	20.0	19.80	-0.06	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	back	1:1	0.553	1.047	0.579	0.274	0.287	
680.50	133297	Mid	LTE Band 71	20	20.0	19.62	-0.03	0	Ant 1	DLXZR00GP7GX	QPSK	50	25	0 mm	back	1:1	0.588	1.091	0.642	0.292	0.319	
680.50	133297	Mid	LTE Band 71	20	20.0	19.80	0.03	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	top	1:1	0.020	1.047	0.021	0.010	0.010	
680.50	133297	Mid	LTE Band 71	20	20.0	19.62	0.10	0	Ant 1	DLXZR00GP7GX	QPSK	50	25	0 mm	top	1:1	0.017	1.091	0.019	0.008	0.009	
680.50	133297	Mid	LTE Band 71	20	20.0	19.80	-0.05	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	bottom	1:1	0.405	1.047	0.424	0.142	0.149	
680.50	133297	Mid	LTE Band 71	20	20.0	19.62	-0.04	0	Ant 1	DLXZR00GP7GX	QPSK	50	25	0 mm	bottom	1:1	0.403	1.091	0.440	0.140	0.153	
680.50	133297	Mid	LTE Band 71	20	20.0	19.80	0.09	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	right	1:1	0.008	1.047	0.008	0.004	0.004	
680.50	133297	Mid	LTE Band 71	20	20.0	19.62	-0.07	0	Ant 1	DLXZR00GP7GX	QPSK	50	25	0 mm	right	1:1	0.007	1.091	0.008	0.003	0.003	
680.50	133297	Mid	LTE Band 71	20	20.0	19.80	-0.03	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	left	1:1	1.020	1.047	1.068	0.246	0.258	A6
680.50	133297	Mid	LTE Band 71	20	20.0	19.62	-0.10	0	Ant 1	DLXZR00GP7GX	QPSK	50	25	0 mm	left	1:1	0.740	1.091	0.807	0.219	0.239	
680.50	133297	Mid	LTE Band 71	20	20.0	19.60	-0.09	0	Ant 1	DLXZR00GP7GX	QPSK	100	0	0 mm	left	1:1	0.756	1.096	0.829	0.222	0.243	
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 10-18
LTE Band 71 Ant 3 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
680.50	133297	Mid	LTE Band 71	20	22.0	21.84	-0.01	0	Ant 3	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1	0.986	1.038	1.023	0.502	0.521	
680.50	133297	Mid	LTE Band 71	20	22.0	21.68	0.00	0	Ant 3	DLXZR00TP7GX	QPSK	50	50	0 mm	back	1:1	0.840	1.076	0.904	0.426	0.458	
680.50	133297	Mid	LTE Band 71	20	22.0	21.56	-0.01	0	Ant 3	DLXZR00TP7GX	QPSK	100	0	0 mm	back	1:1	0.912	1.107	1.010	0.462	0.511	
680.50	133297	Mid	LTE Band 71	20	22.0	21.84	0.03	0	Ant 3	DLXZR00TP7GX	QPSK	1	0	0 mm	top	1:1	0.559	1.038	0.580	0.209	0.217	
680.50	133297	Mid	LTE Band 71	20	22.0	21.68	-0.02	0	Ant 3	DLXZR00TP7GX	QPSK	50	50	0 mm	top	1:1	0.546	1.076	0.587	0.204	0.220	
680.50	133297	Mid	LTE Band 71	20	22.0	21.84	0.04	0	Ant 3	DLXZR00TP7GX	QPSK	1	0	0 mm	bottom	1:1	0.019	1.038	0.020	0.010	0.010	
680.50	133297	Mid	LTE Band 71	20	22.0	21.68	0.03	0	Ant 3	DLXZR00TP7GX	QPSK	50	50	0 mm	bottom	1:1	0.014	1.076	0.015	0.008	0.009	
680.50	133297	Mid	LTE Band 71	20	22.0	21.84	0.09	0	Ant 3	DLXZR00TP7GX	QPSK	1	0	0 mm	right	1:1	0.671	1.038	0.696	0.226	0.235	
680.50	133297	Mid	LTE Band 71	20	22.0	21.68	0.02	0	Ant 3	DLXZR00TP7GX	QPSK	50	50	0 mm	right	1:1	0.557	1.076	0.599	0.188	0.202	
680.50	133297	Mid	LTE Band 71	20	22.0	21.84	0.04	0	Ant 3	DLXZR00TP7GX	QPSK	1	0	0 mm	left	1:1	0.012	1.038	0.012	0.007	0.007	
680.50	133297	Mid	LTE Band 71	20	22.0	21.68	0.03	0	Ant 3	DLXZR00TP7GX	QPSK	50	50	0 mm	left	1:1	0.011	1.076	0.012	0.005	0.005	
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 10-19
LTE Band 12 Ant 1 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
707.50	23095	Mid	LTE Band 12	10	21.5	21.49	-0.07	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1	0.720	1.002	0.721	0.327	0.328	
707.50	23095	Mid	LTE Band 12	10	21.5	21.35	-0.08	0	Ant 1	DLXZR009P7GX	QPSK	25	0	0 mm	back	1:1	0.711	1.035	0.736	0.318	0.329	
707.50	23095	Mid	LTE Band 12	10	21.5	21.49	-0.02	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	top	1:1	0.036	1.002	0.036	0.018	0.018	
707.50	23095	Mid	LTE Band 12	10	21.5	21.35	0.03	0	Ant 1	DLXZR009P7GX	QPSK	25	0	0 mm	top	1:1	0.037	1.035	0.038	0.018	0.019	
707.50	23095	Mid	LTE Band 12	10	21.5	21.49	-0.02	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	bottom	1:1	0.590	1.002	0.591	0.233	0.233	
707.50	23095	Mid	LTE Band 12	10	21.5	21.35	0.00	0	Ant 1	DLXZR009P7GX	QPSK	25	0	0 mm	bottom	1:1	0.588	1.035	0.609	0.232	0.240	
707.50	23095	Mid	LTE Band 12	10	21.5	21.49	0.06	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	right	1:1	0.010	1.002	0.010	0.005	0.005	
707.50	23095	Mid	LTE Band 12	10	21.5	21.35	0.02	0	Ant 1	DLXZR009P7GX	QPSK	25	0	0 mm	right	1:1	0.009	1.035	0.009	0.004	0.004	
707.50	23095	Mid	LTE Band 12	10	21.5	21.49	0.14	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	left	1:1	1.120	1.002	1.122	0.310	0.311	A7
707.50	23095	Mid	LTE Band 12	10	21.5	21.35	-0.12	0	Ant 1	DLXZR009P7GX	QPSK	25	0	0 mm	left	1:1	0.849	1.035	0.879	0.273	0.283	
707.50	23095	Mid	LTE Band 12	10	21.5	21.30	-0.13	0	Ant 1	DLXZR009P7GX	QPSK	50	0	0 mm	left	1:1	0.808	1.047	0.846	0.264	0.276	
707.50	23095	Mid	LTE Band 12	10	18.5	18.21	-0.01	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	left	1:1	0.457	1.069	0.489	0.144	0.154	
707.50	23095	Mid	LTE Band 12	10	18.5	18.20	-0.01	0	Ant 1	DLXZR009P7GX	QPSK	25	12	0 mm	left	1:1	0.393	1.072	0.421	0.126	0.135	
707.50	23095	Mid	LTE Band 12	10	21.5	21.49	-0.01	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	left	1:1	1.070	1.002	1.072	0.316	0.317	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram													

Note: Blue entry represents variability measurement.

Table 10-20
LTE Band 12 Ant 3 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
707.50	23095	Mid	LTE Band 12	10	20.0	19.71	-0.11	0	Ant 3	DLXZR00GP7GX	QPSK	1	49	0 mm	back	1:1	1.040	1.069	1.112	0.511	0.546	
707.50	23095	Mid	LTE Band 12	10	20.0	19.64	-0.12	0	Ant 3	DLXZR00GP7GX	QPSK	25	25	0 mm	back	1:1	1.030	1.086	1.119	0.505	0.548	
707.50	23095	Mid	LTE Band 12	10	20.0	19.61	-0.12	0	Ant 3	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1	1.030	1.094	1.127	0.504	0.551	
707.50	23095	Mid	LTE Band 12	10	17.0	16.65	-0.01	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	back	1:1	0.542	1.084	0.588	0.274	0.297	
707.50	23095	Mid	LTE Band 12	10	17.0	16.63	-0.01	0	Ant 3	DLXZR00GP7GX	QPSK	25	0	0 mm	back	1:1	0.514	1.089	0.560	0.259	0.282	
707.50	23095	Mid	LTE Band 12	10	20.0	19.71	-0.04	0	Ant 3	DLXZR00GP7GX	QPSK	1	49	0 mm	top	1:1	0.416	1.069	0.445	0.151	0.161	
707.50	23095	Mid	LTE Band 12	10	20.0	19.64	-0.02	0	Ant 3	DLXZR00GP7GX	QPSK	25	25	0 mm	top	1:1	0.431	1.086	0.468	0.158	0.172	
707.50	23095	Mid	LTE Band 12	10	20.0	19.71	0.15	0	Ant 3	DLXZR00GP7GX	QPSK	1	49	0 mm	bottom	1:1	0.054	1.069	0.058	0.033	0.035	
707.50	23095	Mid	LTE Band 12	10	20.0	19.64	0.18	0	Ant 3	DLXZR00GP7GX	QPSK	25	25	0 mm	bottom	1:1	0.059	1.086	0.064	0.037	0.040	
707.50	23095	Mid	LTE Band 12	10	20.0	19.71	-0.13	0	Ant 3	DLXZR00GP7GX	QPSK	1	49	0 mm	right	1:1	0.665	1.069	0.711	0.239	0.255	
707.50	23095	Mid	LTE Band 12	10	20.0	19.64	0.04	0	Ant 3	DLXZR00GP7GX	QPSK	25	25	0 mm	right	1:1	0.887	1.086	0.963	0.280	0.304	
707.50	23095	Mid	LTE Band 12	10	20.0	19.61	-0.10	0	Ant 3	DLXZR00GP7GX	QPSK	50	0	0 mm	right	1:1	0.776	1.094	0.849	0.273	0.299	
707.50	23095	Mid	LTE Band 12	10	17.0	16.65	-0.05	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	right	1:1	0.442	1.084	0.479	0.152	0.165	
707.50	23095	Mid	LTE Band 12	10	17.0	16.63	-0.06	0	Ant 3	DLXZR00GP7GX	QPSK	25	0	0 mm	right	1:1	0.418	1.089	0.455	0.143	0.156	
707.50	23095	Mid	LTE Band 12	10	20.0	19.71	0.06	0	Ant 3	DLXZR00GP7GX	QPSK	1	49	0 mm	left	1:1	0.008	1.069	0.009	0.003	0.003	
707.50	23095	Mid	LTE Band 12	10	20.0	19.64	0.03	0	Ant 3	DLXZR00GP7GX	QPSK	25	25	0 mm	left	1:1	0.006	1.086	0.007	0.002	0.002	
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 10-21
LTE Band 13 Ant 1 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
782.00	23230	Mid	LTE Band 13	10	21.5	21.26	-0.20	0	Ant 1	DLXZR02WP7GX	QPSK	1	0	0 mm	back	1:1	0.581	1.057	0.614	0.235	0.248	
782.00	23230	Mid	LTE Band 13	10	21.5	20.95	-0.03	0	Ant 1	DLXZR02WP7GX	QPSK	25	0	0 mm	back	1:1	0.558	1.135	0.633	0.226	0.257	
782.00	23230	Mid	LTE Band 13	10	21.5	21.26	-0.01	0	Ant 1	DLXZR02WP7GX	QPSK	1	0	0 mm	top	1:1	0.040	1.057	0.042	0.022	0.023	
782.00	23230	Mid	LTE Band 13	10	21.5	20.95	0.16	0	Ant 1	DLXZR02WP7GX	QPSK	25	0	0 mm	top	1:1	0.033	1.135	0.037	0.019	0.022	
782.00	23230	Mid	LTE Band 13	10	21.5	21.26	0.03	0	Ant 1	DLXZR02WP7GX	QPSK	1	0	0 mm	bottom	1:1	0.583	1.057	0.616	0.215	0.227	
782.00	23230	Mid	LTE Band 13	10	21.5	20.95	0.01	0	Ant 1	DLXZR02WP7GX	QPSK	25	0	0 mm	bottom	1:1	0.525	1.135	0.596	0.193	0.219	
782.00	23230	Mid	LTE Band 13	10	21.5	21.26	0.08	0	Ant 1	DLXZR02WP7GX	QPSK	1	0	0 mm	right	1:1	0.012	1.057	0.013	0.007	0.007	
782.00	23230	Mid	LTE Band 13	10	21.5	20.95	0.01	0	Ant 1	DLXZR02WP7GX	QPSK	25	0	0 mm	right	1:1	0.012	1.135	0.014	0.006	0.007	
782.00	23230	Mid	LTE Band 13	10	21.5	21.26	-0.07	0	Ant 1	DLXZR02WP7GX	QPSK	1	0	0 mm	left	1:1	1.010	1.057	1.068	0.331	0.350	
782.00	23230	Mid	LTE Band 13	10	21.5	20.95	0.04	0	Ant 1	DLXZR02WP7GX	QPSK	25	0	0 mm	left	1:1	0.964	1.135	1.094	0.283	0.321	
782.00	23230	Mid	LTE Band 13	10	21.5	20.94	0.06	0	Ant 1	DLXZR02WP7GX	QPSK	50	0	0 mm	left	1:1	0.988	1.138	1.124	0.289	0.329	
782.00	23230	Mid	LTE Band 13	10	18.5	18.19	0.04	0	Ant 1	DLXZR02WP7GX	QPSK	1	0	0 mm	left	1:1	0.480	1.074	0.516	0.156	0.168	
782.00	23230	Mid	LTE Band 13	10	18.5	18.11	0.02	0	Ant 1	DLXZR02WP7GX	QPSK	25	12	0 mm	left	1:1	0.415	1.094	0.454	0.135	0.148	
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 10-22
LTE Band 13 Ant 3 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
782.00	23230	Mid	LTE Band 13	10	20.3	19.77	0.00	0	Ant 3	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	1.010	1.130	1.141	0.520	0.588	A8
782.00	23230	Mid	LTE Band 13	10	20.3	19.80	0.01	0	Ant 3	DLXZG001P7GP	QPSK	25	12	0 mm	back	1:1	0.888	1.122	0.996	0.455	0.511	
782.00	23230	Mid	LTE Band 13	10	20.3	19.76	0.01	0	Ant 3	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1	0.904	1.132	1.023	0.464	0.525	
782.00	23230	Mid	LTE Band 13	10	17.3	16.62	0.00	0	Ant 3	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.458	1.169	0.535	0.235	0.275	
782.00	23230	Mid	LTE Band 13	10	17.3	16.60	0.19	0	Ant 3	DLXZG001P7GP	QPSK	25	12	0 mm	back	1:1	0.404	1.175	0.475	0.208	0.244	
782.00	23230	Mid	LTE Band 13	10	20.3	19.77	-0.06	0	Ant 3	DLXZG001P7GP	QPSK	1	0	0 mm	top	1:1	0.561	1.130	0.634	0.227	0.257	
782.00	23230	Mid	LTE Band 13	10	20.3	19.80	-0.04	0	Ant 3	DLXZG001P7GP	QPSK	25	12	0 mm	top	1:1	0.544	1.122	0.610	0.204	0.229	
782.00	23230	Mid	LTE Band 13	10	20.3	19.77	0.20	0	Ant 3	DLXZG001P7GP	QPSK	1	0	0 mm	bottom	1:1	0.027	1.130	0.031	0.016	0.018	
782.00	23230	Mid	LTE Band 13	10	20.3	19.80	0.03	0	Ant 3	DLXZG001P7GP	QPSK	25	12	0 mm	bottom	1:1	0.025	1.122	0.028	0.015	0.017	
782.00	23230	Mid	LTE Band 13	10	20.3	19.77	0.00	0	Ant 3	DLXZG001P7GP	QPSK	1	0	0 mm	right	1:1	0.715	1.130	0.808	0.256	0.289	
782.00	23230	Mid	LTE Band 13	10	20.3	19.80	0.02	0	Ant 3	DLXZG001P7GP	QPSK	25	12	0 mm	right	1:1	0.654	1.122	0.734	0.234	0.263	
782.00	23230	Mid	LTE Band 13	10	17.3	16.62	-0.05	0	Ant 3	DLXZG001P7GP	QPSK	1	0	0 mm	right	1:1	0.391	1.169	0.457	0.131	0.153	
782.00	23230	Mid	LTE Band 13	10	17.3	16.60	0.02	0	Ant 3	DLXZG001P7GP	QPSK	25	12	0 mm	right	1:1	0.323	1.175	0.380	0.109	0.128	
782.00	23230	Mid	LTE Band 13	10	20.3	19.76	-0.08	0	Ant 3	DLXZG001P7GP	QPSK	50	0	0 mm	right	1:1	0.611	1.132	0.692	0.219	0.248	
782.00	23230	Mid	LTE Band 13	10	20.3	19.77	0.08	0	Ant 3	DLXZG001P7GP	QPSK	1	0	0 mm	left	1:1	0.009	1.130	0.010	0.004	0.005	
782.00	23230	Mid	LTE Band 13	10	20.3	19.80	0.02	0	Ant 3	DLXZG001P7GP	QPSK	25	12	0 mm	left	1:1	0.009	1.122	0.010	0.004	0.004	
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 10-23
LTE Band 14 Ant 1 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
793.00	23330	Mid	LTE Band 14	10	21.5	21.20	0.02	0	Ant 1	DLXZR00FP7GX	QPSK	1	49	0 mm	back	1:1	0.629	1.072	0.674	0.331	0.355	
793.00	23330	Mid	LTE Band 14	10	21.5	20.99	0.03	0	Ant 1	DLXZR00FP7GX	QPSK	25	25	0 mm	back	1:1	0.671	1.125	0.755	0.353	0.397	
793.00	23330	Mid	LTE Band 14	10	21.5	21.20	0.13	0	Ant 1	DLXZR00FP7GX	QPSK	1	49	0 mm	top	1:1	0.037	1.072	0.040	0.020	0.021	
793.00	23330	Mid	LTE Band 14	10	21.5	20.99	0.04	0	Ant 1	DLXZR00FP7GX	QPSK	25	25	0 mm	top	1:1	0.046	1.125	0.052	0.024	0.027	
793.00	23330	Mid	LTE Band 14	10	21.5	21.20	-0.08	0	Ant 1	DLXZR00FP7GX	QPSK	1	49	0 mm	bottom	1:1	0.563	1.072	0.604	0.216	0.232	
793.00	23330	Mid	LTE Band 14	10	21.5	20.99	-0.06	0	Ant 1	DLXZR00FP7GX	QPSK	25	25	0 mm	bottom	1:1	0.574	1.125	0.646	0.217	0.244	
793.00	23330	Mid	LTE Band 14	10	21.5	21.20	0.16	0	Ant 1	DLXZR00FP7GX	QPSK	1	49	0 mm	right	1:1	0.011	1.072	0.012	0.006	0.006	
793.00	23330	Mid	LTE Band 14	10	21.5	20.99	-0.14	0	Ant 1	DLXZR00FP7GX	QPSK	25	25	0 mm	right	1:1	0.014	1.125	0.016	0.007	0.008	
793.00	23330	Mid	LTE Band 14	10	21.5	21.20	-0.02	0	Ant 1	DLXZR00FP7GX	QPSK	1	49	0 mm	left	1:1	0.606	1.072	0.650	0.212	0.227	
793.00	23330	Mid	LTE Band 14	10	21.5	20.99	-0.03	0	Ant 1	DLXZR00FP7GX	QPSK	25	25	0 mm	left	1:1	0.659	1.125	0.741	0.230	0.259	
793.00	23330	Mid	LTE Band 14	10	21.5	20.92	-0.03	0	Ant 1	DLXZR00FP7GX	QPSK	50	0	0 mm	left	1:1	0.975	1.143	1.114	0.270	0.309	A9
793.00	23330	Mid	LTE Band 14	10	18.5	18.20	0.05	0	Ant 1	DLXZR00FP7GX	QPSK	1	0	0 mm	left	1:1	0.426	1.072	0.457	0.137	0.147	
793.00	23330	Mid	LTE Band 14	10	18.5	18.28	0.03	0	Ant 1	DLXZR00FP7GX	QPSK	25	25	0 mm	left	1:1	0.401	1.052	0.422	0.131	0.138	
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 10-24
LTE Band 14 Ant 3 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
793.00	23330	Mid	LTE Band 14	10	20.3	19.87	0.00	0	Ant 3	DLXZG001P7GP	QPSK	1	49	0 mm	back	1:1	0.761	1.104	0.840	0.394	0.435	
793.00	23330	Mid	LTE Band 14	10	20.3	19.89	-0.01	0	Ant 3	DLXZG001P7GP	QPSK	25	25	0 mm	back	1:1	0.776	1.099	0.853	0.402	0.442	
793.00	23330	Mid	LTE Band 14	10	20.3	19.77	0.00	0	Ant 3	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1	0.779	1.130	0.880	0.399	0.451	
793.00	23330	Mid	LTE Band 14	10	17.3	16.71	0.00	0	Ant 3	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.407	1.146	0.466	0.210	0.241	
793.00	23330	Mid	LTE Band 14	10	17.3	16.68	0.00	0	Ant 3	DLXZG001P7GP	QPSK	25	25	0 mm	back	1:1	0.384	1.153	0.443	0.197	0.227	
793.00	23330	Mid	LTE Band 14	10	20.3	19.87	0.05	0	Ant 3	DLXZG001P7GP	QPSK	1	49	0 mm	top	1:1	0.519	1.104	0.573	0.205	0.226	
793.00	23330	Mid	LTE Band 14	10	20.3	19.89	0.00	0	Ant 3	DLXZG001P7GP	QPSK	25	25	0 mm	top	1:1	0.516	1.099	0.567	0.202	0.222	
793.00	23330	Mid	LTE Band 14	10	20.3	19.87	0.05	0	Ant 3	DLXZG001P7GP	QPSK	1	49	0 mm	bottom	1:1	0.023	1.104	0.025	0.010	0.011	
793.00	23330	Mid	LTE Band 14	10	20.3	19.89	0.03	0	Ant 3	DLXZG001P7GP	QPSK	25	25	0 mm	bottom	1:1	0.025	1.099	0.027	0.010	0.011	
793.00	23330	Mid	LTE Band 14	10	20.3	19.87	-0.08	0	Ant 3	DLXZG001P7GP	QPSK	1	49	0 mm	right	1:1	0.579	1.104	0.639	0.210	0.232	
793.00	23330	Mid	LTE Band 14	10	20.3	19.89	-0.08	0	Ant 3	DLXZG001P7GP	QPSK	25	25	0 mm	right	1:1	0.612	1.099	0.673	0.219	0.241	
793.00	23330	Mid	LTE Band 14	10	20.3	19.87	-0.13	0	Ant 3	DLXZG001P7GP	QPSK	1	49	0 mm	left	1:1	0.012	1.104	0.013	0.005	0.006	
793.00	23330	Mid	LTE Band 14	10	20.3	19.89	0.14	0	Ant 3	DLXZG001P7GP	QPSK	25	25	0 mm	left	1:1	0.012	1.099	0.013	0.006	0.007	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 10-25
LTE Band 26 Ant 1 Body SAR

MEASUREMENT RESULTS																												
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
819.00	26740	Low	LTE Band 26 (Cell)	10	20.6	20.55	0.04	0	Ant 1	DLXZR00FP7GX	QPSK	1	0	0 mm	back	1:1	0.579	1.012	0.586	0.245	0.248	
844.00	26990	High	LTE Band 26 (Cell)	10	20.6	20.49	-0.01	0	Ant 1	DLXZR00FP7GX	QPSK	25	0	0 mm	back	1:1	0.511	1.026	0.524	0.219	0.225	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.6	20.55	0.11	0	Ant 1	DLXZR00FP7GX	QPSK	1	0	0 mm	top	1:1	0.040	1.012	0.040	0.021	0.021	
844.00	26990	High	LTE Band 26 (Cell)	10	20.6	20.49	-0.04	0	Ant 1	DLXZR00FP7GX	QPSK	25	0	0 mm	top	1:1	0.050	1.026	0.051	0.026	0.027	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.6	20.55	-0.04	0	Ant 1	DLXZR00FP7GX	QPSK	1	0	0 mm	bottom	1:1	0.491	1.012	0.497	0.178	0.180	
844.00	26990	High	LTE Band 26 (Cell)	10	20.6	20.49	-0.04	0	Ant 1	DLXZR00FP7GX	QPSK	25	0	0 mm	bottom	1:1	0.530	1.026	0.544	0.203	0.208	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.6	20.55	0.16	0	Ant 1	DLXZR00FP7GX	QPSK	1	0	0 mm	right	1:1	0.010	1.012	0.010	0.006	0.006	
844.00	26990	High	LTE Band 26 (Cell)	10	20.6	20.49	-0.03	0	Ant 1	DLXZR00FP7GX	QPSK	25	0	0 mm	right	1:1	0.013	1.026	0.013	0.008	0.008	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.6	20.55	0.07	0	Ant 1	DLXZR00FP7GX	QPSK	1	0	0 mm	left	1:1	1.020	1.012	1.032	0.340	0.344	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.6	20.33	-0.01	0	Ant 1	DLXZR00FP7GX	QPSK	1	49	0 mm	left	1:1	0.742	1.064	0.789	0.263	0.280	
844.00	26990	High	LTE Band 26 (Cell)	10	20.6	20.49	-0.02	0	Ant 1	DLXZR00FP7GX	QPSK	1	0	0 mm	left	1:1	0.893	1.026	0.916	0.262	0.269	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.6	20.32	0.00	0	Ant 1	DLXZR00FP7GX	QPSK	25	0	0 mm	left	1:1	0.887	1.067	0.946	0.317	0.338	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.6	20.36	0.00	0	Ant 1	DLXZR00FP7GX	QPSK	25	0	0 mm	left	1:1	0.864	1.057	0.913	0.307	0.324	
844.00	26990	High	LTE Band 26 (Cell)	10	20.6	20.49	0.01	0	Ant 1	DLXZR00FP7GX	QPSK	25	0	0 mm	left	1:1	0.733	1.026	0.752	0.260	0.267	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.6	20.36	-0.03	0	Ant 1	DLXZR00FP7GX	QPSK	50	0	0 mm	left	1:1	0.918	1.057	0.970	0.322	0.340	
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 10-26
LTE Band 26 Ant 3 Body SAR

MEASUREMENT RESULTS																												
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.29	0.02	0	Ant 3	DLXZR009P7GX	QPSK	1	49	0 mm	back	1:1	1.030	1.002	1.032	0.522	0.523	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.3	20.23	0.02	0	Ant 3	DLXZR009P7GX	QPSK	1	49	0 mm	back	1:1	0.891	1.016	0.905	0.452	0.459	
844.00	26990	High	LTE Band 26 (Cell)	10	20.3	20.27	-0.19	0	Ant 3	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1	0.924	1.007	0.930	0.467	0.470	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.30	0.02	0	Ant 3	DLXZR009P7GX	QPSK	25	25	0 mm	back	1:1	1.000	1.000	1.000	0.509	0.509	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.3	20.27	-0.02	0	Ant 3	DLXZR009P7GX	QPSK	25	0	0 mm	back	1:1	1.010	1.007	1.017	0.501	0.505	
844.00	26990	High	LTE Band 26 (Cell)	10	20.3	20.28	-0.19	0	Ant 3	DLXZR009P7GX	QPSK	25	0	0 mm	back	1:1	1.030	1.005	1.035	0.510	0.513	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.26	0.01	0	Ant 3	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	1.030	1.009	1.039	0.519	0.524	A10
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.29	0.03	0	Ant 3	DLXZR009P7GX	QPSK	1	49	0 mm	top	1:1	0.540	1.002	0.541	0.207	0.207	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.30	0.05	0	Ant 3	DLXZR009P7GX	QPSK	25	25	0 mm	top	1:1	0.559	1.000	0.559	0.212	0.212	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.29	0.06	0	Ant 3	DLXZR009P7GX	QPSK	1	49	0 mm	bottom	1:1	0.027	1.002	0.027	0.016	0.016	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.30	0.02	0	Ant 3	DLXZR009P7GX	QPSK	25	25	0 mm	bottom	1:1	0.025	1.000	0.025	0.015	0.015	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.29	0.04	0	Ant 3	DLXZR009P7GX	QPSK	1	49	0 mm	right	1:1	0.706	1.002	0.707	0.279	0.280	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.30	0.04	0	Ant 3	DLXZR009P7GX	QPSK	25	25	0 mm	right	1:1	0.768	1.000	0.768	0.292	0.292	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.29	0.12	0	Ant 3	DLXZR009P7GX	QPSK	1	49	0 mm	left	1:1	0.008	1.002	0.008	0.004	0.004	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.30	0.02	0	Ant 3	DLXZR009P7GX	QPSK	25	25	0 mm	left	1:1	0.009	1.000	0.009	0.004	0.004	
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 10-27
LTE Band 5 Ant 1 Body SAR

MEASUREMENT RESULTS																													
1 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																				
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.47	0.12	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1	0.462	1.030	0.476	0.199	0.205	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.49	0.04	0	Ant 1	DLXZR009P7GX	QPSK	25	25	0 mm	back	1:1	0.452	1.026	0.464	0.196	0.201	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.47	-0.11	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	top	1:1	0.037	1.030	0.038	0.019	0.020	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.49	0.02	0	Ant 1	DLXZR009P7GX	QPSK	25	25	0 mm	top	1:1	0.034	1.026	0.035	0.018	0.018	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.47	0.02	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	bottom	1:1	0.477	1.030	0.491	0.180	0.185	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.49	0.00	0	Ant 1	DLXZR009P7GX	QPSK	25	25	0 mm	bottom	1:1	0.478	1.026	0.490	0.181	0.186	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.47	0.03	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	right	1:1	0.016	1.030	0.016	0.008	0.008	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.49	0.02	0	Ant 1	DLXZR009P7GX	QPSK	25	25	0 mm	right	1:1	0.014	1.026	0.014	0.007	0.007	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.47	-0.02	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	left	1:1	0.973	1.030	1.002	0.304	0.313	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.49	-0.02	0	Ant 1	DLXZR009P7GX	QPSK	25	25	0 mm	left	1:1	0.873	1.026	0.896	0.300	0.308	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.46	0.02	0	Ant 1	DLXZR009P7GX	QPSK	50	0	0 mm	left	1:1	0.886	1.033	0.915	0.306	0.316	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	17.6	17.32	-0.04	0	Ant 1	DLXZR009P7GX	QPSK	1	49	0 mm	left	1:1	0.369	1.067	0.394	0.132	0.141	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	17.6	17.42	-0.01	0	Ant 1	DLXZR009P7GX	QPSK	25	25	0 mm	left	1:1	0.365	1.042	0.380	0.131	0.137	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.6	20.49	0.10	0	Ant 1	DLXZR009P7GX	QPSK	1	0	0 mm	left	1:1	0.943	1.026	0.968	0.331	0.340	
2 CC Uplink	SCC	829.30	20453	Mid	LTE Band 5 (Cell)	5							1	24									
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 10-28
LTE Band 5 Ant 3 Body SAR

MEASUREMENT RESULTS																												
1 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																				
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.19	0.03	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	back	1:1	0.982	1.026	1.008	0.496	0.509	A11
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.28	0.03	0	Ant 3	DLXZR00GP7GX	QPSK	25	25	0 mm	back	1:1	0.956	1.005	0.961	0.481	0.483	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.18	0.03	0	Ant 3	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1	0.964	1.028	0.991	0.486	0.500	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	17.3	17.29	0.06	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	back	1:1	0.493	1.002	0.494	0.246	0.246	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	17.3	17.23	0.00	0	Ant 3	DLXZR00GP7GX	QPSK	25	12	0 mm	back	1:1	0.480	1.016	0.488	0.240	0.244	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.19	0.01	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	back	1:1	0.978	1.026	1.003	0.495	0.508	
2 CC Uplink	SCC	829.30	20453	Mid	LTE Band 5 (Cell)	5								1	24									
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.19	-0.03	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	top	1:1	0.591	1.026	0.606	0.226	0.232	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.28	-0.04	0	Ant 3	DLXZR00GP7GX	QPSK	25	25	0 mm	top	1:1	0.546	1.005	0.549	0.208	0.209	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.19	0.02	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	bottom	1:1	0.037	1.026	0.038	0.020	0.021	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.28	0.06	0	Ant 3	DLXZR00GP7GX	QPSK	25	25	0 mm	bottom	1:1	0.036	1.005	0.036	0.020	0.020	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.19	-0.01	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	right	1:1	0.687	1.026	0.705	0.272	0.279	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.28	-0.01	0	Ant 3	DLXZR00GP7GX	QPSK	25	25	0 mm	right	1:1	0.614	1.005	0.617	0.247	0.248	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.19	0.05	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	left	1:1	0.007	1.026	0.007	0.004	0.004	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.28	-0.03	0	Ant 3	DLXZR00GP7GX	QPSK	25	25	0 mm	left	1:1	0.008	1.005	0.008	0.004	0.004	
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 10-29
LTE Band 4 Ant 2a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																					
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.36	-0.08	0	Ant 2a	DLXZR009P7GX	QPSK	1	50	0 mm	back	1:1	0.951	1.094	1.040	0.443	0.485	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.41	-0.06	0	Ant 2a	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	0.959	1.081	1.037	0.445	0.481	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.29	-0.05	0	Ant 2a	DLXZR009P7GX	QPSK	100	0	0 mm	back	1:1	0.981	1.112	1.091	0.460	0.512	A12
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.75	11.25	-0.03	0	Ant 2a	DLXZR009P7GX	QPSK	1	50	0 mm	back	1:1	0.442	1.122	0.496	0.214	0.240	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.75	11.45	-0.02	0	Ant 2a	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	0.440	1.072	0.472	0.213	0.228	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.36	0.12	0	Ant 2a	DLXZR009P7GX	QPSK	1	50	0 mm	top	1:1	0.010	1.094	0.011	0.005	0.005	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.41	0.04	0	Ant 2a	DLXZR009P7GX	QPSK	50	0	0 mm	top	1:1	0.011	1.081	0.012	0.005	0.005	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.36	-0.13	0	Ant 2a	DLXZR009P7GX	QPSK	1	50	0 mm	bottom	1:1	0.258	1.094	0.282	0.104	0.114	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.41	-0.04	0	Ant 2a	DLXZR009P7GX	QPSK	50	0	0 mm	bottom	1:1	0.255	1.081	0.276	0.104	0.112	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.36	0.02	0	Ant 2a	DLXZR009P7GX	QPSK	1	50	0 mm	right	1:1	0.729	1.094	0.798	0.299	0.327	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.41	-0.04	0	Ant 2a	DLXZR009P7GX	QPSK	50	0	0 mm	right	1:1	0.732	1.081	0.791	0.300	0.324	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.36	-0.02	0	Ant 2a	DLXZR009P7GX	QPSK	1	50	0 mm	left	1:1	0.001	1.094	0.001	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.41	-0.07	0	Ant 2a	DLXZR009P7GX	QPSK	50	0	0 mm	left	1:1	0.001	1.081	0.001	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.75	14.29	-0.05	0	Ant 2a	DLXZR009P7GX	QPSK	100	0	0 mm	back	1:1	0.964	1.112	1.072	0.449	0.499	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement.

Table 10-30
LTE Band 4 Ant 2b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																					
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.9	14.30	-0.02	0	Ant 2b	DLXZR009P7GX	QPSK	1	50	0 mm	back	1:1	0.869	1.148	0.998	0.369	0.424	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.9	14.31	-0.01	0	Ant 2b	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	0.939	1.146	1.076	0.389	0.446	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.9	14.29	-0.01	0	Ant 2b	DLXZR009P7GX	QPSK	100	0	0 mm	back	1:1	0.907	1.151	1.044	0.382	0.440	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.9	11.41	-0.03	0	Ant 2b	DLXZR009P7GX	QPSK	1	50	0 mm	back	1:1	0.398	1.119	0.445	0.167	0.187	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.9	11.54	-0.01	0	Ant 2b	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	0.402	1.086	0.437	0.169	0.184	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.9	14.30	0.03	0	Ant 2b	DLXZR009P7GX	QPSK	1	50	0 mm	top	1:1	0.001	1.148	0.001	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.9	14.31	0.13	0	Ant 2b	DLXZR009P7GX	QPSK	50	0	0 mm	top	1:1	0.001	1.146	0.001	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.9	14.30	0.10	0	Ant 2b	DLXZR009P7GX	QPSK	1	50	0 mm	bottom	1:1	0.559	1.148	0.642	0.237	0.272	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.9	14.31	0.04	0	Ant 2b	DLXZR009P7GX	QPSK	50	0	0 mm	bottom	1:1	0.583	1.146	0.668	0.247	0.283	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.9	14.30	0.07	0	Ant 2b	DLXZR009P7GX	QPSK	1	50	0 mm	right	1:1	0.047	1.148	0.054	0.020	0.023	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.9	14.31	0.06	0	Ant 2b	DLXZR009P7GX	QPSK	50	0	0 mm	right	1:1	0.048	1.146	0.055	0.020	0.023	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.9	14.30	-0.07	0	Ant 2b	DLXZR009P7GX	QPSK	1	50	0 mm	left	1:1	0.009	1.148	0.010	0.004	0.005	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.9	14.31	0.03	0	Ant 2b	DLXZR009P7GX	QPSK	50	0	0 mm	left	1:1	0.010	1.146	0.011	0.004	0.005	
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 10-31
LTE Band 4 Ant 4a Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.37	0.00	0	Ant 4a	DLXZR032P7GX	QPSK	1	50	0 mm	back	1:1	0.935	1.030	0.963	0.427	0.440	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.47	-0.02	0	Ant 4a	DLXZR032P7GX	QPSK	50	25	0 mm	back	1:1	0.948	1.007	0.955	0.431	0.434	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.36	-0.02	0	Ant 4a	DLXZR032P7GX	QPSK	100	0	0 mm	back	1:1	0.969	1.033	1.001	0.440	0.455	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.5	11.48	-0.12	0	Ant 4a	DLXZR032P7GX	QPSK	1	50	0 mm	back	1:1	0.453	1.005	0.455	0.213	0.214	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.5	11.39	0.10	0	Ant 4a	DLXZR032P7GX	QPSK	50	25	0 mm	back	1:1	0.450	1.026	0.462	0.212	0.218	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.37	-0.01	0	Ant 4a	DLXZR032P7GX	QPSK	1	50	0 mm	top	1:1	0.247	1.030	0.254	0.099	0.102	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.47	-0.03	0	Ant 4a	DLXZR032P7GX	QPSK	50	25	0 mm	top	1:1	0.244	1.007	0.246	0.099	0.100	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.37	-0.10	0	Ant 4a	DLXZR032P7GX	QPSK	1	50	0 mm	bottom	1:1	0.012	1.030	0.012	0.005	0.005	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.47	-0.03	0	Ant 4a	DLXZR032P7GX	QPSK	50	25	0 mm	bottom	1:1	0.013	1.007	0.013	0.005	0.005	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.37	0.00	0	Ant 4a	DLXZR032P7GX	QPSK	1	50	0 mm	right	1:1	0.000	1.030	0.000	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.47	0.00	0	Ant 4a	DLXZR032P7GX	QPSK	50	25	0 mm	right	1:1	0.000	1.007	0.000	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.37	-0.13	0	Ant 4a	DLXZR032P7GX	QPSK	1	50	0 mm	left	1:1	0.745	1.030	0.767	0.296	0.305	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.47	-0.03	0	Ant 4a	DLXZR032P7GX	QPSK	50	25	0 mm	left	1:1	0.734	1.007	0.739	0.293	0.295	
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 10-32
LTE Band 4 Ant 4b Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	13.73	-0.18	0	Ant 4b	DLXZR032P7GX	QPSK	1	99	0 mm	back	1:1	0.845	1.194	1.009	0.345	0.412	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.01	0.00	0	Ant 4b	DLXZR032P7GX	QPSK	50	0	0 mm	back	1:1	0.753	1.119	0.843	0.321	0.359	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	13.72	0.09	0	Ant 4b	DLXZR032P7GX	QPSK	100	0	0 mm	back	1:1	0.723	1.197	0.865	0.316	0.378	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.5	11.21	-0.03	0	Ant 4b	DLXZR032P7GX	QPSK	1	50	0 mm	back	1:1	0.413	1.069	0.441	0.174	0.186	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.5	11.37	-0.04	0	Ant 4b	DLXZR032P7GX	QPSK	50	25	0 mm	back	1:1	0.426	1.030	0.439	0.177	0.182	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	13.73	-0.10	0	Ant 4b	DLXZR032P7GX	QPSK	1	99	0 mm	top	1:1	0.526	1.194	0.628	0.212	0.253	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.01	-0.02	0	Ant 4b	DLXZR032P7GX	QPSK	50	0	0 mm	top	1:1	0.511	1.119	0.572	0.205	0.229	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	13.73	0.04	0	Ant 4b	DLXZR032P7GX	QPSK	1	99	0 mm	bottom	1:1	0.003	1.194	0.004	0.001	0.001	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.01	-0.13	0	Ant 4b	DLXZR032P7GX	QPSK	50	0	0 mm	bottom	1:1	0.002	1.119	0.002	0.001	0.001	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	13.73	0.04	0	Ant 4b	DLXZR032P7GX	QPSK	1	99	0 mm	right	1:1	0.010	1.194	0.012	0.005	0.006	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.01	0.02	0	Ant 4b	DLXZR032P7GX	QPSK	50	0	0 mm	right	1:1	0.011	1.119	0.012	0.006	0.007	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	13.73	0.16	0	Ant 4b	DLXZR032P7GX	QPSK	1	99	0 mm	left	1:1	0.047	1.194	0.056	0.021	0.025	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.5	14.01	0.13	0	Ant 4b	DLXZR032P7GX	QPSK	50	0	0 mm	left	1:1	0.047	1.119	0.053	0.020	0.022	
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 10-33
LTE Band 66 Ant 2a Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.36	-0.07	0	Ant 2a	DLXZR02WP7GX	QPSK	1	99	0 mm	back	1:1	0.862	1.094	0.943	0.395	0.432	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.75	14.35	-0.06	0	Ant 2a	DLXZR02WP7GX	QPSK	1	0	0 mm	back	1:1	0.880	1.096	0.964	0.404	0.443	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.75	14.15	0.04	0	Ant 2a	DLXZR02WP7GX	QPSK	1	99	0 mm	back	1:1	0.828	1.148	0.951	0.397	0.456	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.35	-0.05	0	Ant 2a	DLXZR02WP7GX	QPSK	50	50	0 mm	back	1:1	0.845	1.096	0.926	0.385	0.422	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.75	14.17	-0.04	0	Ant 2a	DLXZR02WP7GX	QPSK	50	50	0 mm	back	1:1	0.836	1.143	0.956	0.381	0.435	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.75	13.85	-0.06	0	Ant 2a	DLXZR02WP7GX	QPSK	50	50	0 mm	back	1:1	0.864	1.230	1.063	0.408	0.502	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.24	-0.05	0	Ant 2a	DLXZR02WP7GX	QPSK	100	0	0 mm	back	1:1	0.847	1.125	0.953	0.388	0.437	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.75	11.50	-0.04	0	Ant 2a	DLXZR02WP7GX	QPSK	1	0	0 mm	back	1:1	0.448	1.059	0.474	0.216	0.229	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.75	11.42	-0.04	0	Ant 2a	DLXZR02WP7GX	QPSK	50	50	0 mm	back	1:1	0.430	1.079	0.464	0.208	0.224	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.36	0.12	0	Ant 2a	DLXZR02WP7GX	QPSK	1	99	0 mm	top	1:1	0.008	1.094	0.009	0.004	0.004	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.35	0.03	0	Ant 2a	DLXZR02WP7GX	QPSK	50	50	0 mm	top	1:1	0.005	1.096	0.005	0.002	0.002	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.36	0.00	0	Ant 2a	DLXZR02WP7GX	QPSK	1	99	0 mm	bottom	1:1	0.230	1.094	0.252	0.092	0.101	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.35	-0.02	0	Ant 2a	DLXZR02WP7GX	QPSK	50	50	0 mm	bottom	1:1	0.215	1.096	0.236	0.086	0.094	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.36	0.02	0	Ant 2a	DLXZR02WP7GX	QPSK	1	99	0 mm	right	1:1	0.678	1.094	0.742	0.275	0.301	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.35	0.02	0	Ant 2a	DLXZR02WP7GX	QPSK	50	50	0 mm	right	1:1	0.653	1.096	0.716	0.264	0.289	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.36	-0.05	0	Ant 2a	DLXZR02WP7GX	QPSK	1	99	0 mm	left	1:1	0.001	1.094	0.001	0.000	0.000	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.35	-0.05	0	Ant 2a	DLXZR02WP7GX	QPSK	50	50	0 mm	left	1:1	0.001	1.096	0.001	0.000	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							

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Table 10-34
LTE Band 66 Ant 2b Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.44	0.01	0	Ant 2b	DLXZR00GP7GX	QPSK	1	99	0 mm	back	1:1	0.859	1.112	0.955	0.348	0.387	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.9	14.18	-0.01	0	Ant 2b	DLXZR00GP7GX	QPSK	1	0	0 mm	back	1:1	0.838	1.180	0.989	0.341	0.402	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.9	14.16	0.01	0	Ant 2b	DLXZR00GP7GX	QPSK	1	0	0 mm	back	1:1	0.813	1.186	0.964	0.340	0.403	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.20	0.02	0	Ant 2b	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1	0.840	1.175	0.987	0.340	0.400	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.9	14.19	0.04	0	Ant 2b	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1	0.841	1.178	0.991	0.339	0.399	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.9	13.93	-0.09	0	Ant 2b	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1	0.858	1.250	1.073	0.344	0.430	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.17	0.01	0	Ant 2b	DLXZR00GP7GX	QPSK	100	0	0 mm	back	1:1	0.839	1.183	0.993	0.340	0.402	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.9	11.58	-0.03	0	Ant 2b	DLXZR00GP7GX	QPSK	1	99	0 mm	back	1:1	0.436	1.076	0.469	0.184	0.198	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.9	11.46	-0.03	0	Ant 2b	DLXZR00GP7GX	QPSK	50	50	0 mm	back	1:1	0.427	1.107	0.473	0.181	0.200	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.44	-0.17	0	Ant 2b	DLXZR00GP7GX	QPSK	1	99	0 mm	top	1:1	0.004	1.112	0.004	0.002	0.002	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.20	-0.04	0	Ant 2b	DLXZR00GP7GX	QPSK	50	0	0 mm	top	1:1	0.003	1.175	0.004	0.001	0.001	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.44	0.06	0	Ant 2b	DLXZR00GP7GX	QPSK	1	99	0 mm	bottom	1:1	0.567	1.112	0.631	0.225	0.250	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.20	0.03	0	Ant 2b	DLXZR00GP7GX	QPSK	50	0	0 mm	bottom	1:1	0.537	1.175	0.631	0.213	0.250	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.44	0.14	0	Ant 2b	DLXZR00GP7GX	QPSK	1	99	0 mm	right	1:1	0.042	1.112	0.047	0.017	0.019	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.20	-0.03	0	Ant 2b	DLXZR00GP7GX	QPSK	50	0	0 mm	right	1:1	0.042	1.175	0.049	0.018	0.021	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.44	-0.09	0	Ant 2b	DLXZR00GP7GX	QPSK	1	99	0 mm	left	1:1	0.007	1.112	0.008	0.004	0.004	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.20	-0.12	0	Ant 2b	DLXZR00GP7GX	QPSK	50	0	0 mm	left	1:1	0.008	1.175	0.009	0.004	0.005	
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 10-35
LTE Band 66 Ant 4a Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.09	-0.02	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	back	1:1	0.924	1.099	1.015	0.449	0.493	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	14.20	0.06	0	Ant 4a	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1	0.953	1.072	1.022	0.462	0.495	A13
1770.00	132572	High	LTE Band 66 (AWS)	20	14.5	14.11	0.00	0	Ant 4a	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1	0.904	1.094	0.989	0.438	0.479	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.22	0.00	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	back	1:1	0.906	1.067	0.967	0.440	0.469	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	14.23	0.01	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	0.944	1.064	1.004	0.456	0.485	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.5	14.03	-0.01	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	0.898	1.114	1.000	0.434	0.483	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.19	-0.02	0	Ant 4a	DLXZR009P7GX	QPSK	100	0	0 mm	back	1:1	0.931	1.074	1.000	0.451	0.484	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.5	11.50	0.03	0	Ant 4a	DLXZR009P7GX	QPSK	1	99	0 mm	back	1:1	0.480	1.000	0.480	0.227	0.227	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.5	11.26	0.17	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	back	1:1	0.453	1.057	0.479	0.216	0.228	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	14.20	-0.06	0	Ant 4a	DLXZR009P7GX	QPSK	1	0	0 mm	top	1:1	0.257	1.072	0.276	0.099	0.106	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	14.23	-0.07	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	top	1:1	0.256	1.064	0.272	0.097	0.103	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	14.20	0.13	0	Ant 4a	DLXZR009P7GX	QPSK	1	0	0 mm	bottom	1:1	0.016	1.072	0.017	0.007	0.008	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	14.23	-0.05	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	bottom	1:1	0.016	1.064	0.017	0.007	0.007	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	14.20	0.00	0	Ant 4a	DLXZR009P7GX	QPSK	1	0	0 mm	right	1:1	0.000	1.072	0.000	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	14.23	0.00	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	right	1:1	0.000	1.064	0.000	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	14.20	-0.11	0	Ant 4a	DLXZR009P7GX	QPSK	1	0	0 mm	left	1:1	0.734	1.072	0.787	0.297	0.318	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	14.23	-0.05	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	left	1:1	0.720	1.064	0.766	0.290	0.309	
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 10-36
LTE Band 66 Ant 4b Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.05	0.01	0	Ant 4b	DLXZR00GP7GX	QPSK	1	0	0 mm	back	1:1	0.874	1.109	0.969	0.362	0.401	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	14.02	0.01	0	Ant 4b	DLXZR00GP7GX	QPSK	1	0	0 mm	back	1:1	0.848	1.117	0.947	0.353	0.394	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.5	13.83	-0.01	0	Ant 4b	DLXZR00GP7GX	QPSK	1	99	0 mm	back	1:1	0.805	1.167	0.939	0.332	0.387	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	13.80	-0.01	0	Ant 4b	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1	0.839	1.175	0.986	0.350	0.411	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.5	13.79	0.02	0	Ant 4b	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1	0.836	1.178	0.985	0.350	0.412	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.5	13.70	0.01	0	Ant 4b	DLXZR00GP7GX	QPSK	50	50	0 mm	back	1:1	0.812	1.202	0.976	0.334	0.401	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	13.71	0.01	0	Ant 4b	DLXZR00GP7GX	QPSK	100	0	0 mm	back	1:1	0.839	1.199	1.006	0.349	0.418	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.5	11.43	-0.03	0	Ant 4b	DLXZR00GP7GX	QPSK	1	50	0 mm	back	1:1	0.444	1.016	0.451	0.186	0.189	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.5	11.32	-0.04	0	Ant 4b	DLXZR00GP7GX	QPSK	50	25	0 mm	back	1:1	0.442	1.042	0.461	0.185	0.193	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.05	-0.01	0	Ant 4b	DLXZR00GP7GX	QPSK	1	0	0 mm	top	1:1	0.474	1.109	0.526	0.193	0.214	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	13.80	0.03	0	Ant 4b	DLXZR00GP7GX	QPSK	50	0	0 mm	top	1:1	0.470	1.175	0.552	0.191	0.224	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.05	0.15	0	Ant 4b	DLXZR00GP7GX	QPSK	1	0	0 mm	bottom	1:1	0.002	1.109	0.002	0.001	0.001	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	13.80	-0.06	0	Ant 4b	DLXZR00GP7GX	QPSK	50	0	0 mm	bottom	1:1	0.002	1.175	0.002	0.001	0.001	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.05	0.06	0	Ant 4b	DLXZR00GP7GX	QPSK	1	0	0 mm	right	1:1	0.007	1.109	0.008	0.004	0.004	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	13.80	0.04	0	Ant 4b	DLXZR00GP7GX	QPSK	50	0	0 mm	right	1:1	0.007	1.175	0.008	0.004	0.005	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.05	0.20	0	Ant 4b	DLXZR00GP7GX	QPSK	1	0	0 mm	left	1:1	0.039	1.109	0.043	0.016	0.018	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	13.80	0.03	0	Ant 4b	DLXZR00GP7GX	QPSK	50	0	0 mm	left	1:1	0.036	1.175	0.042	0.016	0.019	
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 10-37
LTE Band 2 Ant 2a Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																								
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.1	15.04	-0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	back	1:1	1.030	1.014	1.044	0.515	0.522	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.08	-0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	back	1:1	0.975	1.005	0.980	0.486	0.488	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	14.94	-0.02	0	Ant 2a	DLXZR00TP7GX	QPSK	1	99	0 mm	back	1:1	0.964	1.038	1.001	0.452	0.469	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.1	15.09	-0.03	0	Ant 2a	DLXZR00TP7GX	QPSK	50	25	0 mm	back	1:1	1.030	1.002	1.032	0.516	0.517	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.10	0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1	1.020	1.000	1.020	0.479	0.479	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.06	0.00	0	Ant 2a	DLXZR00TP7GX	QPSK	50	50	0 mm	back	1:1	0.971	1.009	0.980	0.455	0.459	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.07	0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	100	0	0 mm	back	1:1	0.976	1.007	0.983	0.487	0.490	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	12.1	11.76	-0.03	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	back	1:1	0.502	1.081	0.543	0.240	0.259	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	12.1	11.80	-0.04	0	Ant 2a	DLXZR00TP7GX	QPSK	50	50	0 mm	back	1:1	0.495	1.072	0.531	0.236	0.253	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.08	0.16	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	top	1:1	0.019	1.005	0.019	0.009	0.009	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.10	0.10	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	top	1:1	0.020	1.000	0.020	0.010	0.010	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.08	-0.04	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	bottom	1:1	0.376	1.005	0.378	0.139	0.140	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.10	0.03	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	bottom	1:1	0.391	1.000	0.391	0.144	0.144	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.1	15.04	-0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	right	1:1	0.878	1.014	0.890	0.348	0.353	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.08	0.02	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	right	1:1	0.851	1.005	0.855	0.336	0.338	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	14.94	0.00	0	Ant 2a	DLXZR00TP7GX	QPSK	1	99	0 mm	right	1:1	0.870	1.038	0.903	0.344	0.357	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.1	15.09	0.02	0	Ant 2a	DLXZR00TP7GX	QPSK	50	25	0 mm	right	1:1	0.895	1.002	0.897	0.351	0.352	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.10	-0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	right	1:1	0.892	1.000	0.892	0.349	0.349	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.06	0.03	0	Ant 2a	DLXZR00TP7GX	QPSK	50	50	0 mm	right	1:1	0.885	1.009	0.893	0.344	0.347	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.07	0.00	0	Ant 2a	DLXZR00TP7GX	QPSK	100	0	0 mm	right	1:1	0.870	1.007	0.876	0.339	0.341	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	12.1	11.76	-0.06	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	right	1:1	0.398	1.081	0.430	0.159	0.172	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	12.1	11.80	-0.05	0	Ant 2a	DLXZR00TP7GX	QPSK	50	50	0 mm	right	1:1	0.393	1.072	0.421	0.156	0.167	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.08	0.12	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	left	1:1	0.002	1.005	0.002	0.001	0.001	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	15.10	0.08	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	left	1:1	0.002	1.000	0.002	0.001	0.001	
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 10-38
LTE Band 2 Ant 2b Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																								
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.1	14.10	0.01	0	Ant 2b	DLXZR00TP7GX	QPSK	1	50	0 mm	back	1:1	1.130	1.000	1.130	0.464	0.464	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.1	13.97	-0.01	0	Ant 2b	DLXZR00TP7GX	QPSK	1	99	0 mm	back	1:1	1.130	1.030	1.164	0.459	0.473	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.1	14.00	-0.01	0	Ant 2b	DLXZR00TP7GX	QPSK	1	99	0 mm	back	1:1	1.080	1.023	1.105	0.453	0.463	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.1	14.09	0.00	0	Ant 2b	DLXZR00TP7GX	QPSK	50	25	0 mm	back	1:1	1.130	1.002	1.132	0.468	0.469	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.1	14.00	-0.18	0	Ant 2b	DLXZR00TP7GX	QPSK	50	25	0 mm	back	1:1	1.160	1.023	**1.187**	0.481	0.492	A14
1900.00	19100	High	LTE Band 2 (PCS)	20	14.1	14.07	-0.05	0	Ant 2b	DLXZR00TP7GX	QPSK	50	50	0 mm	back	1:1	1.090	1.007	1.098	0.453	0.456	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.1	14.08	-0.02	0	Ant 2b	DLXZR00TP7GX	QPSK	100	0	0 mm	back	1:1	1.090	1.005	1.095	0.461	0.463	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.1	11.07	-0.03	0	Ant 2b	DLXZR00TP7GX	QPSK	1	99	0 mm	back	1:1	0.529	1.007	0.533	0.228	0.230	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.1	11.10	-0.20	0	Ant 2b	DLXZR00TP7GX	QPSK	50	25	0 mm	back	1:1	0.515	1.000	0.515	0.222	0.222	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.1	14.10	0.07	0	Ant 2b	DLXZR00TP7GX	QPSK	1	50	0 mm	top	1:1	0.004	1.000	0.004	0.002	0.002	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.1	14.09	0.08	0	Ant 2b	DLXZR00TP7GX	QPSK	50	25	0 mm	top	1:1	0.005	1.002	0.005	0.003	0.003	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.1	14.10	0.08	0	Ant 2b	DLXZR00TP7GX	QPSK	1	50	0 mm	bottom	1:1	0.675	1.000	0.675	0.273	0.273	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.1	14.09	0.00	0	Ant 2b	DLXZR00TP7GX	QPSK	50	25	0 mm	bottom	1:1	0.679	1.002	0.680	0.275	0.276	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.1	14.10	0.17	0	Ant 2b	DLXZR00TP7GX	QPSK	1	50	0 mm	right	1:1	0.044	1.000	0.044	0.020	0.020	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.1	14.09	0.02	0	Ant 2b	DLXZR00TP7GX	QPSK	50	25	0 mm	right	1:1	0.046	1.002	0.046	0.017	0.017	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.1	14.10	0.00	0	Ant 2b	DLXZR00TP7GX	QPSK	1	50	0 mm	left	1:1	0.011	1.000	0.011	0.006	0.006	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.1	14.09	0.05	0	Ant 2b	DLXZR00TP7GX	QPSK	50	25	0 mm	left	1:1	0.011	1.002	0.011	0.005	0.005	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.1	14.00	-0.02	0	Ant 2b	DLXZR00TP7GX	QPSK	50	25	0 mm	back	1:1	1.140	1.023	1.166	0.472	0.483	
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Note: Blue entry represents variability measurement.

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Table 10-39
LTE Band 2 Ant 4a Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.9	14.63	0.00	0	Ant 4a	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1	1.060	1.064	1.128	0.534	0.568	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.9	14.55	0.00	0	Ant 4a	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1	1.040	1.084	1.127	0.498	0.540	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.89	0.01	0	Ant 4a	DLXZR00TP7GX	QPSK	1	99	0 mm	back	1:1	1.050	1.002	1.052	0.500	0.501	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.9	14.77	0.00	0	Ant 4a	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1	1.020	1.030	1.051	0.483	0.497	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.9	14.54	-0.01	0	Ant 4a	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1	1.020	1.086	1.108	0.489	0.531	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.85	0.02	0	Ant 4a	DLXZR00TP7GX	QPSK	50	50	0 mm	back	1:1	1.070	1.012	1.083	0.508	0.514	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.74	0.02	0	Ant 4a	DLXZR00TP7GX	QPSK	100	0	0 mm	back	1:1	1.090	1.038	1.131	0.546	0.567	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.9	11.82	-0.06	0	Ant 4a	DLXZR00TP7GX	QPSK	1	50	0 mm	back	1:1	0.608	1.019	0.620	0.296	0.302	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.9	11.72	0.09	0	Ant 4a	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1	0.575	1.042	0.599	0.279	0.291	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.89	-0.06	0	Ant 4a	DLXZR00TP7GX	QPSK	1	99	0 mm	top	1:1	0.340	1.002	0.341	0.130	0.130	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.85	-0.02	0	Ant 4a	DLXZR00TP7GX	QPSK	50	50	0 mm	top	1:1	0.354	1.012	0.358	0.135	0.137	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.89	0.11	0	Ant 4a	DLXZR00TP7GX	QPSK	1	99	0 mm	bottom	1:1	0.018	1.002	0.018	0.008	0.008	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.85	0.05	0	Ant 4a	DLXZR00TP7GX	QPSK	50	50	0 mm	bottom	1:1	0.016	1.012	0.016	0.007	0.007	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.89	0.01	0	Ant 4a	DLXZR00TP7GX	QPSK	1	99	0 mm	right	1:1	0.002	1.002	0.002	0.001	0.001	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.85	0.18	0	Ant 4a	DLXZR00TP7GX	QPSK	50	50	0 mm	right	1:1	0.002	1.012	0.002	0.001	0.001	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.9	14.63	0.01	0	Ant 4a	DLXZR00TP7GX	QPSK	1	0	0 mm	left	1:1	0.961	1.064	1.023	0.380	0.404	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.9	14.55	-0.11	0	Ant 4a	DLXZR00TP7GX	QPSK	1	0	0 mm	left	1:1	0.990	1.084	1.073	0.387	0.420	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.89	0.13	0	Ant 4a	DLXZR00TP7GX	QPSK	1	99	0 mm	left	1:1	0.992	1.002	0.994	0.383	0.384	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.9	14.77	0.07	0	Ant 4a	DLXZR00TP7GX	QPSK	50	0	0 mm	left	1:1	0.938	1.030	0.966	0.370	0.381	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.9	14.54	-0.04	0	Ant 4a	DLXZR00TP7GX	QPSK	50	0	0 mm	left	1:1	1.010	1.086	1.097	0.394	0.428	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.85	0.07	0	Ant 4a	DLXZR00TP7GX	QPSK	50	50	0 mm	left	1:1	1.010	1.012	1.022	0.392	0.397	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.74	-0.01	0	Ant 4a	DLXZR00TP7GX	QPSK	100	0	0 mm	left	1:1	1.050	1.038	1.090	0.409	0.425	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.9	11.82	-0.10	0	Ant 4a	DLXZR00TP7GX	QPSK	1	50	0 mm	left	1:1	0.499	1.019	0.508	0.199	0.203	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.9	11.72	-0.02	0	Ant 4a	DLXZR00TP7GX	QPSK	50	0	0 mm	left	1:1	0.515	1.042	0.537	0.206	0.215	
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 10-40
LTE Band 2 Ant 4b Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.91	0.01	0	Ant 4b	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1	0.784	1.199	0.940	0.335	0.402	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.7	13.77	0.03	0	Ant 4b	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1	0.794	1.239	0.984	0.349	0.432	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	13.82	-0.01	0	Ant 4b	DLXZR009P7GX	QPSK	1	99	0 mm	back	1:1	0.774	1.225	0.948	0.328	0.402	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.86	0.00	0	Ant 4b	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	0.818	1.213	0.992	0.349	0.423	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.7	13.83	0.00	0	Ant 4b	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	0.791	1.222	0.967	0.347	0.424	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	13.81	0.02	0	Ant 4b	DLXZR009P7GX	QPSK	50	50	0 mm	back	1:1	0.799	1.227	0.980	0.338	0.415	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.83	0.00	0	Ant 4b	DLXZR009P7GX	QPSK	100	0	0 mm	back	1:1	0.838	1.222	1.024	0.345	0.422	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.7	11.31	-0.13	0	Ant 4b	DLXZR009P7GX	QPSK	1	99	0 mm	back	1:1	0.506	1.094	0.554	0.213	0.233	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.7	11.32	-0.12	0	Ant 4b	DLXZR009P7GX	QPSK	50	50	0 mm	back	1:1	0.497	1.091	0.542	0.208	0.227	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.91	-0.01	0	Ant 4b	DLXZR009P7GX	QPSK	1	0	0 mm	top	1:1	0.684	1.199	0.820	0.271	0.325	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.7	13.77	-0.06	0	Ant 4b	DLXZR009P7GX	QPSK	1	0	0 mm	top	1:1	0.640	1.239	0.793	0.256	0.317	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	13.82	-0.07	0	Ant 4b	DLXZR009P7GX	QPSK	1	99	0 mm	top	1:1	0.655	1.225	0.802	0.261	0.320	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.86	-0.01	0	Ant 4b	DLXZR009P7GX	QPSK	50	0	0 mm	top	1:1	0.693	1.213	0.841	0.274	0.332	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.7	13.83	-0.04	0	Ant 4b	DLXZR009P7GX	QPSK	50	0	0 mm	top	1:1	0.651	1.222	0.796	0.260	0.318	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	13.81	-0.03	0	Ant 4b	DLXZR009P7GX	QPSK	50	50	0 mm	top	1:1	0.677	1.227	0.831	0.268	0.329	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.83	-0.05	0	Ant 4b	DLXZR009P7GX	QPSK	100	0	0 mm	top	1:1	0.648	1.222	0.792	0.259	0.316	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.7	11.31	-0.17	0	Ant 4b	DLXZR009P7GX	QPSK	1	99	0 mm	top	1:1	0.426	1.094	0.466	0.168	0.184	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.7	11.32	-0.12	0	Ant 4b	DLXZR009P7GX	QPSK	50	50	0 mm	top	1:1	0.415	1.091	0.453	0.163	0.178	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.91	-0.02	0	Ant 4b	DLXZR009P7GX	QPSK	1	0	0 mm	bottom	1:1	0.006	1.199	0.007	0.002	0.002	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.86	0.16	0	Ant 4b	DLXZR009P7GX	QPSK	50	0	0 mm	bottom	1:1	0.008	1.213	0.010	0.002	0.002	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.91	0.03	0	Ant 4b	DLXZR009P7GX	QPSK	1	0	0 mm	right	1:1	0.011	1.199	0.013	0.003	0.004	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.86	0.19	0	Ant 4b	DLXZR009P7GX	QPSK	50	0	0 mm	right	1:1	0.010	1.213	0.012	0.003	0.004	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.91	0.02	0	Ant 4b	DLXZR009P7GX	QPSK	1	0	0 mm	left	1:1	0.064	1.199	0.077	0.027	0.032	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.86	0.19	0	Ant 4b	DLXZR009P7GX	QPSK	50	0	0 mm	left	1:1	0.064	1.213	0.078	0.026	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					

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Table 10-41
LTE Band 25 Ant 2a Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.1	14.73	-0.01	0	Ant 2a	DLXZR009P7GX	QPSK	1	50	0 mm	back	1:1	1.020	1.089	1.111	0.504	0.549	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.1	14.86	0.00	0	Ant 2a	DLXZR009P7GX	QPSK	1	50	0 mm	back	1:1	0.908	1.057	0.960	0.459	0.485	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	15.03	-0.01	0	Ant 2a	DLXZR009P7GX	QPSK	1	99	0 mm	back	1:1	0.883	1.016	0.897	0.444	0.451	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.1	14.80	-0.01	0	Ant 2a	DLXZR009P7GX	QPSK	50	25	0 mm	back	1:1	1.000	1.072	1.072	0.507	0.544	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.1	14.91	-0.02	0	Ant 2a	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	0.934	1.045	0.976	0.474	0.495	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	14.83	0.00	0	Ant 2a	DLXZR009P7GX	QPSK	50	25	0 mm	back	1:1	0.866	1.064	0.921	0.438	0.466	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	14.89	0.00	0	Ant 2a	DLXZR009P7GX	QPSK	100	0	0 mm	back	1:1	0.865	1.050	0.908	0.438	0.460	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	15.03	0.07	0	Ant 2a	DLXZR009P7GX	QPSK	1	99	0 mm	top	1:1	0.017	1.016	0.017	0.008	0.008	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.1	14.91	0.04	0	Ant 2a	DLXZR009P7GX	QPSK	50	0	0 mm	top	1:1	0.018	1.045	0.019	0.008	0.008	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	15.03	0.00	0	Ant 2a	DLXZR009P7GX	QPSK	1	99	0 mm	bottom	1:1	0.370	1.016	0.376	0.137	0.139	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.1	14.91	0.00	0	Ant 2a	DLXZR009P7GX	QPSK	50	0	0 mm	bottom	1:1	0.352	1.045	0.368	0.130	0.136	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.1	14.73	0.05	0	Ant 2a	DLXZR009P7GX	QPSK	1	50	0 mm	right	1:1	0.830	1.089	0.904	0.337	0.367	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.1	14.86	-0.01	0	Ant 2a	DLXZR009P7GX	QPSK	1	50	0 mm	right	1:1	0.777	1.057	0.821	0.314	0.332	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	15.03	0.07	0	Ant 2a	DLXZR009P7GX	QPSK	1	99	0 mm	right	1:1	0.834	1.016	0.847	0.334	0.339	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.1	14.80	0.02	0	Ant 2a	DLXZR009P7GX	QPSK	50	25	0 mm	right	1:1	0.832	1.072	0.892	0.336	0.360	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.1	14.91	0.02	0	Ant 2a	DLXZR009P7GX	QPSK	50	0	0 mm	right	1:1	0.817	1.045	0.854	0.329	0.344	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	14.83	0.02	0	Ant 2a	DLXZR009P7GX	QPSK	50	25	0 mm	right	1:1	0.802	1.064	0.853	0.321	0.342	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	14.89	-0.01	0	Ant 2a	DLXZR009P7GX	QPSK	100	0	0 mm	right	1:1	0.811	1.050	0.852	0.326	0.342	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	15.03	-0.10	0	Ant 2a	DLXZR009P7GX	QPSK	1	99	0 mm	left	1:1	0.002	1.016	0.002	0.001	0.001	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.1	14.91	0.01	0	Ant 2a	DLXZR009P7GX	QPSK	50	0	0 mm	left	1:1	0.002	1.045	0.002	0.001	0.001	
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 10-42
LTE Band 25 Ant 2b Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.1	13.73	-0.02	0	Ant 2b	DLXZR009P7GX	QPSK	1	50	0 mm	back	1:1	1.020	1.089	1.111	0.427	0.465	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.1	13.82	-0.01	0	Ant 2b	DLXZR009P7GX	QPSK	1	99	0 mm	back	1:1	0.964	1.067	1.029	0.401	0.428	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.08	-0.03	0	Ant 2b	DLXZR009P7GX	QPSK	1	99	0 mm	back	1:1	1.050	1.005	1.055	0.435	0.437	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.1	13.79	-0.01	0	Ant 2b	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	1.050	1.074	1.128	0.436	0.468	A15
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.1	13.78	0.00	0	Ant 2b	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	1.030	1.076	1.108	0.429	0.462	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	13.91	-0.01	0	Ant 2b	DLXZR009P7GX	QPSK	50	50	0 mm	back	1:1	1.050	1.045	1.097	0.434	0.454	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	13.82	-0.01	0	Ant 2b	DLXZR009P7GX	QPSK	100	0	0 mm	back	1:1	1.050	1.067	1.120	0.436	0.465	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.08	0.02	0	Ant 2b	DLXZR009P7GX	QPSK	1	99	0 mm	top	1:1	0.003	1.005	0.003	0.001	0.001	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	13.91	0.01	0	Ant 2b	DLXZR009P7GX	QPSK	50	50	0 mm	top	1:1	0.003	1.045	0.003	0.002	0.002	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.08	-0.04	0	Ant 2b	DLXZR009P7GX	QPSK	1	99	0 mm	bottom	1:1	0.686	1.005	0.689	0.272	0.273	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	13.91	-0.01	0	Ant 2b	DLXZR009P7GX	QPSK	50	50	0 mm	bottom	1:1	0.672	1.045	0.702	0.266	0.278	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.08	0.14	0	Ant 2b	DLXZR009P7GX	QPSK	1	99	0 mm	right	1:1	0.045	1.005	0.045	0.021	0.021	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	13.91	0.06	0	Ant 2b	DLXZR009P7GX	QPSK	50	50	0 mm	right	1:1	0.043	1.045	0.045	0.019	0.020	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.08	-0.13	0	Ant 2b	DLXZR009P7GX	QPSK	1	99	0 mm	left	1:1	0.013	1.005	0.013	0.006	0.006	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	13.91	0.05	0	Ant 2b	DLXZR009P7GX	QPSK	50	50	0 mm	left	1:1	0.012	1.045	0.013	0.006	0.006	
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 10-43
LTE Band 25 Ant 4a Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.9	14.51	-0.03	0	Ant 4a	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1	0.997	1.094	1.091	0.501	0.548	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.9	14.69	-0.03	0	Ant 4a	DLXZR009P7GX	QPSK	1	99	0 mm	back	1:1	0.864	1.050	0.907	0.428	0.449	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.90	0.12	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	back	1:1	0.948	1.000	0.948	0.465	0.465	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.9	14.57	0.00	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	back	1:1	0.879	1.079	0.948	0.433	0.467	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.9	14.59	0.00	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	0.895	1.074	0.961	0.439	0.471	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.87	0.00	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	back	1:1	0.926	1.007	0.932	0.454	0.457	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.84	0.02	0	Ant 4a	DLXZR009P7GX	QPSK	100	0	0 mm	back	1:1	1.030	1.014	1.044	0.514	0.521	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.90	-0.09	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	top	1:1	0.356	1.000	0.356	0.141	0.141	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.87	-0.11	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	top	1:1	0.356	1.007	0.358	0.140	0.141	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.90	0.02	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	bottom	1:1	0.014	1.000	0.014	0.007	0.007	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.87	0.02	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	bottom	1:1	0.014	1.007	0.014	0.006	0.006	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.90	-0.02	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	right	1:1	0.002	1.000	0.002	0.001	0.001	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.87	0.11	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	right	1:1	0.002	1.007	0.002	0.001	0.001	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.9	14.51	-0.05	0	Ant 4a	DLXZR009P7GX	QPSK	1	0	0 mm	left	1:1	0.912	1.094	0.998	0.370	0.405	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.9	14.69	-0.09	0	Ant 4a	DLXZR009P7GX	QPSK	1	99	0 mm	left	1:1	0.954	1.050	1.002	0.382	0.401	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.90	0.00	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	left	1:1	0.965	1.000	0.965	0.386	0.386	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.9	14.57	0.11	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	left	1:1	0.894	1.079	0.965	0.359	0.387	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.9	14.59	0.05	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	left	1:1	0.952	1.074	1.022	0.383	0.411	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.87	0.05	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	left	1:1	0.972	1.007	0.979	0.389	0.392	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.84	-0.02	0	Ant 4a	DLXZR009P7GX	QPSK	100	0	0 mm	left	1:1	0.981	1.014	0.995	0.391	0.396	
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 10-44
LTE Band 25 Ant 4b Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.90	0.03	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.834	1.202	1.002	0.346	0.416	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.7	13.74	0.04	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.788	1.247	0.983	0.331	0.413	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.86	0.06	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	0.769	1.213	0.933	0.322	0.391	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.84	-0.04	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1	0.807	1.219	0.984	0.338	0.412	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.7	13.72	-0.04	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1	0.794	1.253	0.995	0.332	0.416	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.79	0.09	0	Ant 4b	DLXZG001P7GP	QPSK	50	25	0 mm	back	1:1	0.792	1.233	0.977	0.330	0.407	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.80	-0.02	0	Ant 4b	DLXZG001P7GP	QPSK	100	0	0 mm	back	1:1	0.788	1.230	0.969	0.332	0.408	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.90	-0.05	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	top	1:1	0.666	1.202	0.801	0.269	0.323	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.7	13.74	-0.11	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	top	1:1	0.637	1.247	0.794	0.255	0.318	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.86	-0.12	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	top	1:1	0.659	1.213	0.799	0.262	0.318	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.84	-0.02	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	top	1:1	0.674	1.219	0.822	0.271	0.330	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.7	13.72	-0.11	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	top	1:1	0.635	1.253	0.796	0.253	0.317	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.79	-0.11	0	Ant 4b	DLXZG001P7GP	QPSK	50	25	0 mm	top	1:1	0.658	1.233	0.811	0.261	0.322	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.80	-0.10	0	Ant 4b	DLXZG001P7GP	QPSK	100	0	0 mm	top	1:1	0.676	1.230	0.831	0.269	0.331	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.90	0.07	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	bottom	1:1	0.006	1.202	0.007	0.002	0.002	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.84	-0.08	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	bottom	1:1	0.006	1.219	0.007	0.002	0.002	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.90	0.06	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	right	1:1	0.006	1.202	0.007	0.002	0.002	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.84	0.03	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	right	1:1	0.009	1.219	0.011	0.003	0.004	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.90	0.02	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	left	1:1	0.065	1.202	0.078	0.026	0.031	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.84	-0.01	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	left	1:1	0.061	1.219	0.074	0.025	0.030	
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 10-45
LTE Band 30 Ant 2a Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
2310.00	27710	Mid	LTE Band 30	10	13.0	12.15	0.01	0	Ant 2a	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.822	1.216	1.000	0.358	0.435	
2310.00	27710	Mid	LTE Band 30	10	13.0	12.22	-0.05	0	Ant 2a	DLXZG001P7GP	QPSK	25	0	0 mm	back	1:1	0.787	1.197	0.942	0.344	0.412	
2310.00	27710	Mid	LTE Band 30	10	13.0	12.14	0.13	0	Ant 2a	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1	0.796	1.219	0.970	0.350	0.427	
2310.00	27710	Mid	LTE Band 30	10	10.0	9.29	0.04	0	Ant 2a	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.337	1.178	0.397	0.151	0.178	
2310.00	27710	Mid	LTE Band 30	10	10.0	9.30	-0.08	0	Ant 2a	DLXZG001P7GP	QPSK	25	12	0 mm	back	1:1	0.360	1.175	0.423	0.161	0.189	
2310.00	27710	Mid	LTE Band 30	10	13.0	12.15	0.15	0	Ant 2a	DLXZG001P7GP	QPSK	1	0	0 mm	top	1:1	0.014	1.216	0.017	0.005	0.006	
2310.00	27710	Mid	LTE Band 30	10	13.0	12.22	0.15	0	Ant 2a	DLXZG001P7GP	QPSK	25	0	0 mm	top	1:1	0.012	1.197	0.014	0.005	0.006	
2310.00	27710	Mid	LTE Band 30	10	13.0	12.15	-0.01	0	Ant 2a	DLXZG001P7GP	QPSK	1	0	0 mm	bottom	1:1	0.291	1.216	0.354	0.091	0.111	
2310.00	27710	Mid	LTE Band 30	10	13.0	12.22	0.00	0	Ant 2a	DLXZG001P7GP	QPSK	25	0	0 mm	bottom	1:1	0.285	1.197	0.341	0.089	0.107	
2310.00	27710	Mid	LTE Band 30	10	13.0	12.15	0.01	0	Ant 2a	DLXZG001P7GP	QPSK	1	0	0 mm	right	1:1	0.598	1.216	0.727	0.217	0.264	
2310.00	27710	Mid	LTE Band 30	10	13.0	12.22	0.03	0	Ant 2a	DLXZG001P7GP	QPSK	25	0	0 mm	right	1:1	0.592	1.197	0.709	0.214	0.256	
2310.00	27710	Mid	LTE Band 30	10	13.0	12.15	0.01	0	Ant 2a	DLXZG001P7GP	QPSK	1	0	0 mm	left	1:1	0.000	1.216	0.000	0.000	0.000	
2310.00	27710	Mid	LTE Band 30	10	13.0	12.22	-0.03	0	Ant 2a	DLXZG001P7GP	QPSK	25	0	0 mm	left	1:1	0.000	1.197	0.000	0.000	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													

Table 10-46
LTE Band 30 Ant 2b Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
2310.00	27710	Mid	LTE Band 30	10	13.4	13.14	-0.03	0	Ant 2b	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1	1.030	1.062	1.094	0.406	0.431	A16
2310.00	27710	Mid	LTE Band 30	10	13.4	13.15	0.03	0	Ant 2b	DLXZR009P7GX	QPSK	25	25	0 mm	back	1:1	0.992	1.059	1.051	0.395	0.418	
2310.00	27710	Mid	LTE Band 30	10	13.4	13.07	-0.02	0	Ant 2b	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1	1.010	1.079	1.090	0.398	0.429	
2310.00	27710	Mid	LTE Band 30	10	10.4	10.11	-0.02	0	Ant 2b	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1	0.497	1.069	0.531	0.200	0.214	
2310.00	27710	Mid	LTE Band 30	10	10.4	10.06	-0.07	0	Ant 2b	DLXZR009P7GX	QPSK	25	12	0 mm	back	1:1	0.493	1.081	0.533	0.199	0.215	
2310.00	27710	Mid	LTE Band 30	10	13.4	13.14	0.02	0	Ant 2b	DLXZR009P7GX	QPSK	1	0	0 mm	top	1:1	0.001	1.062	0.001	0.001	0.001	
2310.00	27710	Mid	LTE Band 30	10	13.4	13.15	0.05	0	Ant 2b	DLXZR009P7GX	QPSK	25	25	0 mm	top	1:1	0.000	1.059	0.000	0.000	0.000	
2310.00	27710	Mid	LTE Band 30	10	13.4	13.14	-0.01	0	Ant 2b	DLXZR009P7GX	QPSK	1	0	0 mm	bottom	1:1	0.679	1.062	0.721	0.242	0.257	
2310.00	27710	Mid	LTE Band 30	10	13.4	13.15	-0.01	0	Ant 2b	DLXZR009P7GX	QPSK	25	25	0 mm	bottom	1:1	0.688	1.059	0.729	0.245	0.259	
2310.00	27710	Mid	LTE Band 30	10	13.4	13.14	0.05	0	Ant 2b	DLXZR009P7GX	QPSK	1	0	0 mm	right	1:1	0.038	1.062	0.040	0.018	0.019	
2310.00	27710	Mid	LTE Band 30	10	13.4	13.15	0.03	0	Ant 2b	DLXZR009P7GX	QPSK	25	25	0 mm	right	1:1	0.037	1.059	0.039	0.017	0.018	
2310.00	27710	Mid	LTE Band 30	10	13.4	13.14	0.08	0	Ant 2b	DLXZR009P7GX	QPSK	1	0	0 mm	left	1:1	0.020	1.062	0.021	0.009	0.010	
2310.00	27710	Mid	LTE Band 30	10	13.4	13.15	0.02	0	Ant 2b	DLXZR009P7GX	QPSK	25	25	0 mm	left	1:1	0.022	1.059	0.023	0.010	0.011	
2310.00	27710	Mid	LTE Band 30	10	13.4	13.14	0.01	0	Ant 2b	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1	1.020	1.062	1.083	0.405	0.430	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram													

Note: Blue entry represents variability measurement.

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Table 10-47
LTE Band 30 Ant 4a Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.60	-0.01	0	Ant 4a	DLXZR00TP7GX	QPSK	1	25	0 mm	back	1:1	0.957	1.148	1.099	0.406	0.466	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.61	-0.05	0	Ant 4a	DLXZR00TP7GX	QPSK	25	25	0 mm	back	1:1	0.983	1.146	1.127	0.420	0.481	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.58	-0.01	0	Ant 4a	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1	0.958	1.153	1.105	0.406	0.468	
2310.00	27710	Mid	LTE Band 30	10	10.2	9.80	0.06	0	Ant 4a	DLXZR00TP7GX	QPSK	1	25	0 mm	back	1:1	0.500	1.096	0.548	0.215	0.236	
2310.00	27710	Mid	LTE Band 30	10	10.2	9.95	-0.01	0	Ant 4a	DLXZR00TP7GX	QPSK	25	25	0 mm	back	1:1	0.518	1.059	0.549	0.222	0.235	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.60	-0.05	0	Ant 4a	DLXZR00TP7GX	QPSK	1	25	0 mm	top	1:1	0.319	1.148	0.366	0.101	0.116	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.61	0.01	0	Ant 4a	DLXZR00TP7GX	QPSK	25	25	0 mm	top	1:1	0.309	1.146	0.354	0.098	0.112	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.60	0.10	0	Ant 4a	DLXZR00TP7GX	QPSK	1	25	0 mm	bottom	1:1	0.017	1.148	0.020	0.009	0.010	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.61	0.08	0	Ant 4a	DLXZR00TP7GX	QPSK	25	25	0 mm	bottom	1:1	0.015	1.146	0.017	0.008	0.009	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.60	0.08	0	Ant 4a	DLXZR00TP7GX	QPSK	1	25	0 mm	right	1:1	0.002	1.148	0.002	0.001	0.001	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.61	0.00	0	Ant 4a	DLXZR00TP7GX	QPSK	25	25	0 mm	right	1:1	0.002	1.146	0.002	0.001	0.001	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.60	-0.01	0	Ant 4a	DLXZR00TP7GX	QPSK	1	25	0 mm	left	1:1	0.718	1.148	0.824	0.262	0.301	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.61	-0.05	0	Ant 4a	DLXZR00TP7GX	QPSK	25	25	0 mm	left	1:1	0.721	1.146	0.826	0.262	0.300	
2310.00	27710	Mid	LTE Band 30	10	13.2	12.58	0.02	0	Ant 4a	DLXZR00TP7GX	QPSK	50	0	0 mm	left	1:1	0.736	1.153	0.849	0.267	0.308	
2310.00	27710	Mid	LTE Band 30	10	10.2	9.80	-0.04	0	Ant 4a	DLXZR00TP7GX	QPSK	1	25	0 mm	left	1:1	0.336	1.096	0.368	0.132	0.145	
2310.00	27710	Mid	LTE Band 30	10	10.2	9.95	-0.09	0	Ant 4a	DLXZR00TP7GX	QPSK	25	25	0 mm	left	1:1	0.346	1.059	0.366	0.135	0.143	
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 10-48
LTE Band 30 Ant 4b Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.39	0.01	0	Ant 4b	DLXZR00TP7GX	QPSK	1	49	0 mm	back	1:1	0.984	1.074	1.057	0.358	0.384	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.47	-0.05	0	Ant 4b	DLXZR00TP7GX	QPSK	25	25	0 mm	back	1:1	0.973	1.054	1.026	0.353	0.372	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.38	0.00	0	Ant 4b	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1	1.010	1.076	1.087	0.366	0.394	
2310.00	27710	Mid	LTE Band 30	10	10.7	10.47	-0.02	0	Ant 4b	DLXZR00TP7GX	QPSK	1	25	0 mm	back	1:1	0.512	1.054	0.540	0.189	0.199	
2310.00	27710	Mid	LTE Band 30	10	10.7	10.56	-0.05	0	Ant 4b	DLXZR00TP7GX	QPSK	25	25	0 mm	back	1:1	0.422	1.033	0.436	0.157	0.162	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.39	0.04	0	Ant 4b	DLXZR00TP7GX	QPSK	1	49	0 mm	top	1:1	0.544	1.074	0.584	0.192	0.206	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.47	-0.05	0	Ant 4b	DLXZR00TP7GX	QPSK	25	25	0 mm	top	1:1	0.524	1.054	0.552	0.185	0.195	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.39	0.00	0	Ant 4b	DLXZR00TP7GX	QPSK	1	49	0 mm	bottom	1:1	0.000	1.074	0.000	0.000	0.000	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.47	0.00	0	Ant 4b	DLXZR00TP7GX	QPSK	25	25	0 mm	bottom	1:1	0.000	1.054	0.000	0.000	0.000	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.39	0.18	0	Ant 4b	DLXZR00TP7GX	QPSK	1	49	0 mm	right	1:1	0.015	1.074	0.016	0.005	0.005	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.47	-0.17	0	Ant 4b	DLXZR00TP7GX	QPSK	25	25	0 mm	right	1:1	0.014	1.054	0.015	0.005	0.005	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.39	0.01	0	Ant 4b	DLXZR00TP7GX	QPSK	1	49	0 mm	left	1:1	0.025	1.074	0.027	0.011	0.012	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.47	-0.03	0	Ant 4b	DLXZR00TP7GX	QPSK	25	25	0 mm	left	1:1	0.025	1.054	0.026	0.010	0.011	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram																

Table 10-49
LTE Band 7 Ant 2a Body SAR

MEASUREMENT RESULTS																											
1 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.7	12.05	0.01	0	Ant 2a	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	0.970	1.161	1.126	0.403	0.468	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.00	0.01	0	Ant 2a	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	0.826	1.175	0.971	0.339	0.398	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.7	11.90	0.03	0	Ant 2a	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	0.885	1.202	1.064	0.360	0.433	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.7	12.10	0.03	0	Ant 2a	DLXZG001P7GP	QPSK	50	50	0 mm	back	1:1	0.958	1.148	1.100	0.399	0.458	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.01	0.01	0	Ant 2a	DLXZG001P7GP	QPSK	50	50	0 mm	back	1:1	0.829	1.172	0.972	0.343	0.402	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.7	11.88	0.01	0	Ant 2a	DLXZG001P7GP	QPSK	50	50	0 mm	back	1:1	0.819	1.208	0.989	0.336	0.406	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.7	12.04	0.03	0	Ant 2a	DLXZG001P7GP	QPSK	100	0	0 mm	back	1:1	0.839	1.164	0.977	0.347	0.404	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	9.7	9.20	0.03	0	Ant 2a	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	0.436	1.122	0.489	0.177	0.199	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	9.7	9.10	-0.12	0	Ant 2a	DLXZG001P7GP	QPSK	50	50	0 mm	back	1:1	0.404	1.148	0.464	0.164	0.188	
2 CC Uplink	PCC	2510.00	20850	Low	LTE Band 7	20	12.7	11.70	-0.01	0	Ant 2a	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	0.879	1.259	1.107	0.381	0.480	
2 CC Uplink	SCC	2529.80	21048	Low	LTE Band 7	20								1	0									
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.7	12.05	0.07	0	Ant 2a	DLXZG001P7GP	QPSK	1	99	0 mm	top	1:1	0.013	1.161	0.015	0.005	0.006	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.7	12.10	0.08	0	Ant 2a	DLXZG001P7GP	QPSK	50	50	0 mm	top	1:1	0.012	1.148	0.014	0.004	0.005	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.7	12.05	-0.06	0	Ant 2a	DLXZG001P7GP	QPSK	1	99	0 mm	bottom	1:1	0.317	1.161	0.368	0.091	0.106	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.7	12.10	-0.11	0	Ant 2a	DLXZG001P7GP	QPSK	50	50	0 mm	bottom	1:1	0.315	1.148	0.362	0.091	0.104	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.7	12.05	-0.01	0	Ant 2a	DLXZG001P7GP	QPSK	1	99	0 mm	right	1:1	0.654	1.161	0.759	0.223	0.259	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.00	-0.01	0	Ant 2a	DLXZG001P7GP	QPSK	1	99	0 mm	right	1:1	0.633	1.175	0.744	0.215	0.253	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.7	11.90	-0.03	0	Ant 2a	DLXZG001P7GP	QPSK	1	99	0 mm	right	1:1	0.613	1.202	0.737	0.207	0.249	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.7	12.10	-0.01	0	Ant 2a	DLXZG001P7GP	QPSK	50	50	0 mm	right	1:1	0.670	1.148	0.769	0.228	0.262	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.01	-0.03	0	Ant 2a	DLXZG001P7GP	QPSK	50	50	0 mm	right	1:1	0.620	1.172	0.727	0.210	0.246	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.7	11.88	0.05	0	Ant 2a	DLXZG001P7GP	QPSK	50	50	0 mm	right	1:1	0.592	1.208	0.715	0.198	0.239	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.7	12.05	0.00	0	Ant 2a	DLXZG001P7GP	QPSK	1	99	0 mm	left	1:1	0.000	1.161	0.000	0.000	0.000	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.7	12.10	0.00	0	Ant 2a	DLXZG001P7GP	QPSK	50	50	0 mm	left	1:1	0.000	1.148	0.000	0.000	0.000	
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Body 1.6 W/kg (mW/g) averaged over 1 gram																											

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Table 10-50
LTE Band 7 Ant 2b Body SAR

MEASUREMENT RESULTS																										
1 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.3	12.28	0.02	0	Ant 2b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	0.978	1.005	0.983	0.350	0.352	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.30	-0.04	0	Ant 2b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	0.993	1.000	0.993	0.350	0.350	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.3	11.83	0.04	0	Ant 2b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.852	1.114	0.949	0.314	0.350	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.3	12.03	0.01	0	Ant 2b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	1.100	1.064	1.170	0.384	0.409	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.3	12.17	0.01	0	Ant 2b	DLXZG001P7GP	QPSK	50	50	0 mm	back	1:1	0.981	1.030	1.010	0.352	0.363	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.27	0.01	0	Ant 2b	DLXZG001P7GP	QPSK	50	50	0 mm	back	1:1	0.988	1.007	0.995	0.351	0.353	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.3	12.07	0.00	0	Ant 2b	DLXZG001P7GP	QPSK	50	50	0 mm	back	1:1	1.040	1.054	1.096	0.366	0.386	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.3	12.16	-0.03	0	Ant 2b	DLXZG001P7GP	QPSK	100	0	0 mm	back	1:1	0.980	1.033	1.012	0.348	0.359	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	9.3	9.30	0.04	0	Ant 2b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.440	1.000	0.440	0.160	0.160	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	9.3	9.02	0.13	0	Ant 2b	DLXZG001P7GP	QPSK	50	50	0 mm	back	1:1	0.467	1.067	0.498	0.168	0.179	
2 CC Uplink	PCC	2560.00	21350	High	LTE Band 7	20	12.3	11.72	0.04	0	Ant 2b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.816	1.143	0.933	0.300	0.343	
2 CC Uplink	SCC	2540.20	21152	High	LTE Band 7	20								1	99									
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.30	0.00	0	Ant 2b	DLXZG001P7GP	QPSK	1	99	0 mm	top	1:1	0.000	1.000	0.000	0.000	0.000	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.27	0.00	0	Ant 2b	DLXZG001P7GP	QPSK	50	50	0 mm	top	1:1	0.000	1.007	0.000	0.000	0.000	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.30	0.03	0	Ant 2b	DLXZG001P7GP	QPSK	1	99	0 mm	bottom	1:1	0.571	1.000	0.571	0.197	0.197	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.27	0.05	0	Ant 2b	DLXZG001P7GP	QPSK	50	50	0 mm	bottom	1:1	0.568	1.007	0.572	0.195	0.196	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.30	0.11	0	Ant 2b	DLXZG001P7GP	QPSK	1	99	0 mm	right	1:1	0.025	1.000	0.025	0.010	0.010	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.27	0.16	0	Ant 2b	DLXZG001P7GP	QPSK	50	50	0 mm	right	1:1	0.023	1.007	0.023	0.009	0.009	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.30	0.19	0	Ant 2b	DLXZG001P7GP	QPSK	1	99	0 mm	left	1:1	0.018	1.000	0.018	0.006	0.006	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.27	0.06	0	Ant 2b	DLXZG001P7GP	QPSK	50	50	0 mm	left	1:1	0.020	1.007	0.020	0.007	0.007	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.3	12.03	-0.03	0	Ant 2b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	1.030	1.064	1.096	0.369	0.393	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram												

Note: Blue entry represents variability measurement.

Table 10-51
LTE Band 7 Ant 4a Body SAR

MEASUREMENT RESULTS																										
1 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.5	12.37	0.04	0	Ant 4a	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	1.020	1.030	1.051	0.422	0.435	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.50	0.01	0	Ant 4a	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	1.020	1.000	1.020	0.415	0.415	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.5	12.28	0.04	0	Ant 4a	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	1.070	1.052	1.126	0.428	0.450	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.5	12.33	-0.02	0	Ant 4a	DLXZG001P7GP	QPSK	50	50	0 mm	back	1:1	0.997	1.040	1.037	0.410	0.426	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.43	0.00	0	Ant 4a	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1	0.995	1.016	1.011	0.408	0.415	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.5	11.90	0.06	0	Ant 4a	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1	0.991	1.148	1.138	0.401	0.460	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.41	-0.13	0	Ant 4a	DLXZG001P7GP	QPSK	100	0	0 mm	back	1:1	1.010	1.021	1.031	0.413	0.422	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	9.5	9.45	-0.06	0	Ant 4a	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.507	1.012	0.513	0.207	0.209	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	9.5	9.23	-0.01	0	Ant 4a	DLXZG001P7GP	QPSK	50	25	0 mm	back	1:1	0.473	1.064	0.503	0.193	0.205	
2 CC Uplink	PCC	2560.00	21350	High	LTE Band 7	20	12.5	11.82	0.01	0	Ant 4a	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1	0.942	1.169	1.101	0.398	0.465	
2 CC Uplink	SCC	2540.20	21152	High	LTE Band 7	20								50	50									
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.50	0.01	0	Ant 4a	DLXZG001P7GP	QPSK	1	0	0 mm	top	1:1	0.306	1.000	0.306	0.089	0.089	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.43	0.01	0	Ant 4a	DLXZG001P7GP	QPSK	50	0	0 mm	top	1:1	0.296	1.016	0.301	0.085	0.086	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.50	0.02	0	Ant 4a	DLXZG001P7GP	QPSK	1	0	0 mm	bottom	1:1	0.011	1.000	0.011	0.004	0.004	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.43	0.12	0	Ant 4a	DLXZG001P7GP	QPSK	50	0	0 mm	bottom	1:1	0.000	1.016	0.000	0.000	0.000	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.50	0.02	0	Ant 4a	DLXZG001P7GP	QPSK	1	0	0 mm	right	1:1	0.000	1.000	0.000	0.000	0.000	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.43	0.01	0	Ant 4a	DLXZG001P7GP	QPSK	50	0	0 mm	right	1:1	0.000	1.016	0.000	0.000	0.000	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.5	12.37	-0.01	0	Ant 4a	DLXZG001P7GP	QPSK	1	99	0 mm	left	1:1	0.860	1.030	0.886	0.297	0.306	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.50	-0.04	0	Ant 4a	DLXZG001P7GP	QPSK	1	0	0 mm	left	1:1	0.845	1.000	0.845	0.290	0.290	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.5	12.28	0.01	0	Ant 4a	DLXZG001P7GP	QPSK	1	0	0 mm	left	1:1	0.840	1.052	0.884	0.287	0.302	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.5	12.33	0.09	0	Ant 4a	DLXZG001P7GP	QPSK	50	50	0 mm	left	1:1	0.856	1.040	0.890	0.292	0.304	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.43	0.03	0	Ant 4a	DLXZG001P7GP	QPSK	50	0	0 mm	left	1:1	0.834	1.016	0.847	0.283	0.288	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.5	11.90	0.05	0	Ant 4a	DLXZG001P7GP	QPSK	50	0	0 mm	left	1:1	0.796	1.148	0.914	0.270	0.310	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.5	12.41	-0.10	0	Ant 4a	DLXZG001P7GP	QPSK	100	0	0 mm	left	1:1	0.830	1.021	0.847	0.282	0.288	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	9.5	9.45	-0.11	0	Ant 4a	DLXZG001P7GP	QPSK	1	0	0 mm	left	1:1	0.426	1.012	0.431	0.143	0.145	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	9.5	9.23	0.09	0	Ant 4a	DLXZG001P7GP	QPSK	50	25	0 mm	left	1:1	0.420	1.064	0.447	0.143	0.152	
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 10-52
LTE Band 7 Ant 4b Body SAR

MEASUREMENT RESULTS																										
1 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.3	13.23	-0.02	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	1.110	1.016	1.128	0.397	0.403	A17
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.3	13.19	-0.05	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	1.020	1.026	1.047	0.363	0.372	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.3	13.13	0.00	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	1.000	1.040	1.040	0.354	0.368	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.3	13.21	0.01	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.996	1.021	1.017	0.350	0.357	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.3	13.18	-0.01	0	Ant 4b	DLXZG001P7GP	QPSK	50	50	0 mm	back	1:1	1.020	1.028	1.049	0.363	0.373	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.3	13.22	0.02	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1	1.030	1.019	1.050	0.364	0.371	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.3	13.14	0.01	0	Ant 4b	DLXZG001P7GP	QPSK	50	25	0 mm	back	1:1	1.020	1.038	1.059	0.355	0.368	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.3	13.17	0.01	0	Ant 4b	DLXZG001P7GP	QPSK	100	0	0 mm	back	1:1	1.050	1.030	1.082	0.369	0.380	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	10.3	10.19	0.00	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	0.597	1.026	0.613	0.216	0.222	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	10.3	10.13	-0.02	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1	0.571	1.040	0.594	0.209	0.217	
2 CC Uplink	PCC	2510.00	20850	Low	LTE Band 7	20	13.3	13.12	0.02	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1	1.050	1.042	1.094	0.387	0.403	
2 CC Uplink	SCC	2529.80	21048	Low	LTE Band 7	20								1	0									
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.3	13.23	-0.04	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	top	1:1	0.630	1.016	0.640	0.215	0.218	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.3	13.22	-0.12	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	top	1:1	0.543	1.019	0.553	0.185	0.189	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.3	13.23	-0.07	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	bottom	1:1	0.002	1.016	0.002	0.000	0.000	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.3	13.22	0.07	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	bottom	1:1	0.003	1.019	0.003	0.000	0.000	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.3	13.23	0.02	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	right	1:1	0.031	1.016	0.031	0.012	0.012	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.3	13.22	0.08	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	right	1:1	0.032	1.019	0.033	0.012	0.012	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.3	13.23	-0.01	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	left	1:1	0.034	1.016	0.035	0.013	0.013	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.3	13.22	-0.04	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	left	1:1	0.043	1.019	0.044	0.015	0.015	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.3	13.23	-0.05	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1	1.030	1.016	1.046	0.381	0.387	
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Note: Blue entry represents variability measurement.

Table 10-53
LTE Band 41 Ant 2a Body SAR

MEASUREMENT RESULTS																										
1 CC Uplink / 2 CC Uplink, Power Class	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.7	13.99	-0.10	0	Ant 2a	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1.58	0.727	1.178	0.856	0.302	0.356	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.7	13.77	0.02	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	back	1:1.58	0.816	1.239	1.011	0.333	0.413	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.01	0.00	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	back	1:1.58	0.870	1.172	1.020	0.348	0.408	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.7	13.73	0.03	0	Ant 2a	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1.58	0.821	1.250	1.026	0.329	0.411	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.7	14.00	0.00	0	Ant 2a	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1.58	0.756	1.175	0.888	0.299	0.351	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.7	14.01	0.00	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.774	1.172	0.907	0.324	0.380	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.7	13.79	0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	50	50	0 mm	back	1:1.58	0.817	1.233	1.007	0.331	0.408	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	13.98	0.03	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.887	1.180	1.047	0.366	0.432	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.05	0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	50	25	0 mm	back	1:1.58	0.966	1.161	1.122	0.387	0.449	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.7	13.75	0.00	0	Ant 2a	DLXZR00TP7GX	QPSK	50	50	0 mm	back	1:1.58	0.803	1.245	1.000	0.317	0.395	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.7	14.04	-0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.757	1.164	0.881	0.296	0.345	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	13.97	0.00	0	Ant 2a	DLXZR00TP7GX	QPSK	100	0	0 mm	back	1:1.58	0.861	1.183	1.019	0.346	0.409	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.01	0.04	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:2.31	0.554	1.172	0.649	0.231	0.271	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.05	-0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	50	25	0 mm	back	1:2.31	0.636	1.161	0.738	0.256	0.297	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	LTE Band 41	20	14.7	13.70	0.03	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.808	1.259	1.017	0.333	0.419	
2 CC Uplink - Power Class 3	SCC	2573.20	40422	Mid	LTE Band 41	20								50	50									
2 CC Uplink - Power Class 2	PCC	2593.00	40620	Mid	LTE Band 41	20	14.7	13.70	0.04	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:2.31	0.499	1.259	0.628	0.208	0.262	
2 CC Uplink - Power Class 2	SCC	2573.20	40422	Mid	LTE Band 41	20								50	50									
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.01	0.00	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	top	1:1.58	0.012	1.172	0.014	0.004	0.005	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.05	-0.09	0	Ant 2a	DLXZR00TP7GX	QPSK	50	25	0 mm	top	1:1.58	0.011	1.161	0.013	0.003	0.003	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.01	-0.03	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	bottom	1:1.58	0.366	1.172	0.429	0.103	0.121	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.05	-0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	50	25	0 mm	bottom	1:1.58	0.365	1.161	0.424	0.102	0.118	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.7	13.99	-0.02	0	Ant 2a	DLXZR00TP7GX	QPSK	1	0	0 mm	right	1:1.58	0.714	1.178	0.841	0.252	0.297	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.7	13.77	0.03	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	right	1:1.58	0.571	1.239	0.707	0.199	0.247	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.01	-0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	right	1:1.58	0.594	1.172	0.696	0.201	0.236	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.7	13.73	-0.02	0	Ant 2a	DLXZR00TP7GX	QPSK	1	0	0 mm	right	1:1.58	0.521	1.250	0.651	0.175	0.219	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.7	14.00	-0.06	0	Ant 2a	DLXZR00TP7GX	QPSK	1	0	0 mm	right	1:1.58	0.417	1.175	0.490	0.143	0.168	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.7	14.01	0.02	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	right	1:1.58	0.708	1.172	0.830	0.247	0.289	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.7	13.79	0.05	0	Ant 2a	DLXZR00TP7GX	QPSK	50	50	0 mm	right	1:1.58	0.585	1.233	0.697	0.197	0.243	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.05	-0.04	0	Ant 2a	DLXZR00TP7GX	QPSK	50	25	0 mm	right	1:1.58	0.594	1.161	0.690	0.201	0.233	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.7	13.75	-0.03	0	Ant 2a	DLXZR00TP7GX	QPSK	50	50	0 mm	right	1:1.58	0.492	1.245	0.613	0.165	0.205	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.7	14.04	-0.05	0	Ant 2a	DLXZR00TP7GX	QPSK	50	0	0 mm	right	1:1.58	0.405	1.164	0.471	0.138	0.161	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	13.97	-0.01	0	Ant 2a	DLXZR00TP7GX	QPSK	100	0	0 mm	right	1:1.58	0.592	1.183	0.700	0.200	0.237	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.01	0.00	0	Ant 2a	DLXZR00TP7GX	QPSK	1	50	0 mm	left	1:1.58	0.000	1.172	0.000	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.7	14.05	0.00	0	Ant 2a	DLXZR00TP7GX	QPSK	50	25	0 mm	left	1:1.58	0.000	1.161	0.000	0.000	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					

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Table 10-54
LTE Band 41 Ant 2b Body SAR

MEASUREMENT RESULTS																												
1 CC Uplink / 2 CC Uplink, Power Class	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.16	-0.03	0	Ant 2b	DLXZR00TP7GX	QPSK	1	99	0 mm	back	1:1.58	0.842	1.009	0.850	0.302	0.305	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	13.95	0.03	0	Ant 2b	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1.58	0.864	1.059	0.915	0.304	0.322	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.17	0.01	0	Ant 2b	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1.58	0.976	1.007	0.983	0.341	0.343	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.77	0.01	0	Ant 2b	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1.58	0.965	1.104	1.065	0.332	0.367	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.2	13.96	0.02	0	Ant 2b	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1.58	0.947	1.057	1.001	0.319	0.337	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.08	0.00	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.818	1.028	0.841	0.293	0.301	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	13.83	0.00	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.879	1.089	0.957	0.309	0.337	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.09	0.01	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.999	1.026	1.025	0.346	0.355	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.63	0.10	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.962	1.140	1.097	0.327	0.373	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.2	13.82	0.00	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.932	1.091	1.017	0.313	0.341	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.07	0.00	0	Ant 2b	DLXZR00TP7GX	QPSK	100	0	0 mm	back	1:1.58	1.000	1.030	1.030	0.348	0.358	
1 CC Uplink - Power Class 2	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.55	-0.02	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:2.31	0.633	1.161	0.735	0.217	0.252	
2 CC Uplink - Power Class 3	PCC	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.25	-0.03	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.841	1.245	1.047	0.291	0.362	
2 CC Uplink - Power Class 3	SCC	2616.70	40857	Mid-High	LTE Band 41	20								50	50									
2 CC Uplink - Power Class 2	PCC	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.11	0.01	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:2.31	0.555	1.285	0.713	0.192	0.247	
2 CC Uplink - Power Class 2	SCC	2616.70	40857	Mid-High	LTE Band 41	20								50	50									
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.17	0.00	0	Ant 2b	DLXZR00TP7GX	QPSK	1	0	0 mm	top	1:1.58	0.000	1.007	0.000	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.09	0.00	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	top	1:1.58	0.004	1.026	0.004	0.001	0.001	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.17	-0.01	0	Ant 2b	DLXZR00TP7GX	QPSK	1	0	0 mm	bottom	1:1.58	0.491	1.007	0.494	0.167	0.168	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.09	-0.02	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	bottom	1:1.58	0.498	1.026	0.511	0.168	0.172	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.17	0.15	0	Ant 2b	DLXZR00TP7GX	QPSK	1	0	0 mm	right	1:1.58	0.037	1.007	0.037	0.012	0.012	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.09	-0.17	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	right	1:1.58	0.037	1.026	0.038	0.012	0.012	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.17	0.03	0	Ant 2b	DLXZR00TP7GX	QPSK	1	0	0 mm	left	1:1.58	0.014	1.007	0.014	0.005	0.005	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.09	-0.19	0	Ant 2b	DLXZR00TP7GX	QPSK	50	0	0 mm	left	1:1.58	0.016	1.026	0.016	0.005	0.005	
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 10-55
LTE Band 41 Ant 4a Body SAR

MEASUREMENT RESULTS																												
1 CC Uplink / 2 CC Uplink, Power Class	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.02	0.20	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	back	1:1.58	0.715	1.042	0.745	0.304	0.317	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.04	-0.20	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	back	1:1.58	0.942	1.038	0.978	0.382	0.397	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	13.83	-0.06	0	Ant 4a	DLXZR009P7GX	QPSK	1	99	0 mm	back	1:1.58	0.869	1.089	0.946	0.356	0.388	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.65	-0.08	0	Ant 4a	DLXZR009P7GX	QPSK	1	0	0 mm	back	1:1.58	0.946	1.135	1.074	0.384	0.436	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.2	13.52	-0.15	0	Ant 4a	DLXZR009P7GX	QPSK	1	99	0 mm	back	1:1.58	0.936	1.169	1.094	0.372	0.435	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	13.99	-0.07	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	back	1:1.58	0.701	1.050	0.736	0.299	0.314	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.01	-0.02	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	back	1:1.58	0.947	1.045	0.990	0.383	0.400	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	13.80	-0.13	0	Ant 4a	DLXZR009P7GX	QPSK	50	50	0 mm	back	1:1.58	0.847	1.096	0.928	0.347	0.380	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.67	0.01	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1.58	1.040	1.130	1.175	0.411	0.464	A18
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.2	13.46	-0.15	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	back	1:1.58	0.973	1.186	1.154	0.386	0.458	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	13.99	0.04	0	Ant 4a	DLXZR009P7GX	QPSK	100	0	0 mm	back	1:1.58	0.656	1.050	0.689	0.276	0.290	
1 CC Uplink - Power Class 2	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.61	0.01	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:2.31	0.702	1.146	0.804	0.275	0.315	
2 CC Uplink - Power Class 3	PCC	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.33	0.03	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:1.58	0.929	1.222	1.135	0.384	0.469	
2 CC Uplink - Power Class 3	SCC	2616.70	40857	Mid-High	LTE Band 41	20								50	50									
2 CC Uplink - Power Class 2	PCC	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.20	-0.03	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	back	1:2.31	0.612	1.259	0.771	0.250	0.315	
2 CC Uplink - Power Class 2	SCC	2616.70	40857	Mid-High	LTE Band 41	20								50	50									
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.04	-0.07	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	top	1:1.58	0.251	1.038	0.261	0.071	0.074	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.01	-0.09	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	top	1:1.58	0.238	1.045	0.249	0.068	0.071	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.04	0.01	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	bottom	1:1.58	0.009	1.038	0.009	0.003	0.003	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.01	0.07	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	bottom	1:1.58	0.010	1.045	0.010	0.003	0.003	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.04	-0.02	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	right	1:1.58	0.000	1.038	0.000	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.01	0.00	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	right	1:1.58	0.000	1.045	0.000	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.02	-0.10	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	left	1:1.58	0.654	1.042	0.681	0.242	0.252	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.04	-0.02	0	Ant 4a	DLXZR009P7GX	QPSK	1	50	0 mm	left	1:1.58	0.673	1.038	0.699	0.244	0.253	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	13.83	-0.10	0	Ant 4a	DLXZR009P7GX	QPSK	1	99	0 mm	left	1:1.58	0.683	1.089	0.744	0.248	0.270	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.65	-0.08	0	Ant 4a	DLXZR009P7GX	QPSK	1	0	0 mm	left	1:1.58	0.659	1.135	0.748	0.238	0.270	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.2	13.52	-0.07	0	Ant 4a	DLXZR009P7GX	QPSK	1	99	0 mm	left	1:1.58	0.569	1.169	0.665	0.202	0.236	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	13.99	-0.08	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	left	1:1.58	0.647	1.050	0.679	0.240	0.252	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.01	-0.05	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	left	1:1.58	0.668	1.045	0.698	0.243	0.254	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	13.80	-0.05	0	Ant 4a	DLXZR009P7GX	QPSK	50	50	0 mm	left	1:1.58	0.683	1.096	0.749	0.247	0.271	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.2	13.67	-0.10	0	Ant 4a	DLXZR009P7GX	QPSK	50	0	0 mm	left	1:1.58	0.651	1.130	0.736	0.233	0.263	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.2	13.46	-0.09	0	Ant 4a	DLXZR009P7GX	QPSK	50	25	0 mm	left	1:1.58	0.578	1.186	0.686	0.205	0.243	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	13.99	-0.14	0	Ant 4a	DLXZR009P7GX	QPSK	100	0	0 mm	left	1:1.58	0.643	1.050	0.675	0.237	0.249	
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 10-56
LTE Band 41 Ant 4b Body SAR

MEASUREMENT RESULTS																												
1 CC Uplink / 2 CC Uplink, Power Class	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																					
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.9	15.83	-0.04	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1.58	1.000	1.016	1.016	0.357	0.363	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.9	15.81	-0.02	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1.58	0.910	1.021	0.929	0.322	0.329	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.90	-0.04	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1.58	0.923	1.000	0.923	0.315	0.315	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.9	15.64	0.09	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1.58	0.860	1.062	0.913	0.288	0.306	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.9	15.84	-0.01	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	back	1:1.58	0.848	1.014	0.860	0.280	0.284	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.9	15.84	-0.04	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1.58	1.000	1.014	1.014	0.354	0.359	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.9	15.74	0.01	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1.58	0.887	1.038	0.921	0.313	0.325	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.85	-0.02	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1.58	0.908	1.012	0.919	0.307	0.311	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.9	15.72	0.02	0	Ant 4b	DLXZG001P7GP	QPSK	50	50	0 mm	back	1:1.58	0.872	1.042	0.909	0.289	0.301	
1 CC Uplink - Power Class 3	N/A	2680.00	41400	High	LTE Band 41	20	15.9	15.84	-0.03	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	back	1:1.58	0.841	1.014	0.853	0.275	0.279	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.83	0.01	0	Ant 4b	DLXZG001P7GP	QPSK	100	0	0 mm	back	1:1.58	0.897	1.016	0.911	0.304	0.309	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	15.9	15.66	0.04	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:2.31	0.702	1.057	0.742	0.257	0.272	
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	LTE Band 41	20	15.9	15.70	0.02	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:1.58	0.993	1.047	1.040	0.361	0.378	
2 CC Uplink - Power Class 3	SCC	2525.80	39948	Low	LTE Band 41	20								1	0									
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	LTE Band 41	20	15.9	15.79	0.05	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	back	1:2.31	0.714	1.026	0.733	0.262	0.269	
2 CC Uplink - Power Class 2	SCC	2525.80	39948	Low	LTE Band 41	20								1	0									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.9	15.83	0.00	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	top	1:1.58	0.667	1.016	0.678	0.229	0.233	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.9	15.81	-0.04	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	top	1:1.58	0.664	1.021	0.678	0.225	0.230	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.90	-0.07	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	top	1:1.58	0.656	1.000	0.656	0.224	0.224	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.9	15.64	-0.07	0	Ant 4b	DLXZG001P7GP	QPSK	1	99	0 mm	top	1:1.58	0.656	1.062	0.697	0.217	0.230	
1 CC Uplink - Power Class 3	N/A	2680.00	41400	High	LTE Band 41	20	15.9	15.84	0.01	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	top	1:1.58	0.693	1.014	0.703	0.228	0.231	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.9	15.84	-0.05	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	top	1:1.58	0.684	1.014	0.694	0.234	0.237	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.9	15.74	-0.03	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	top	1:1.58	0.656	1.038	0.681	0.222	0.230	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.85	-0.03	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	top	1:1.58	0.658	1.012	0.666	0.220	0.223	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.9	15.72	-0.02	0	Ant 4b	DLXZG001P7GP	QPSK	50	50	0 mm	top	1:1.58	0.657	1.042	0.685	0.218	0.227	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.9	15.84	-0.03	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	top	1:1.58	0.691	1.014	0.701	0.226	0.229	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.83	-0.03	0	Ant 4b	DLXZG001P7GP	QPSK	100	0	0 mm	top	1:1.58	0.659	1.016	0.670	0.221	0.225	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.90	0.00	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	bottom	1:1.58	0.000	1.000	0.000	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.85	0.00	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	bottom	1:1.58	0.000	1.012	0.000	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.90	-0.02	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	right	1:1.58	0.029	1.000	0.029	0.012	0.012	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.85	0.00	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	right	1:1.58	0.030	1.012	0.030	0.012	0.012	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.90	-0.04	0	Ant 4b	DLXZG001P7GP	QPSK	1	0	0 mm	left	1:1.58	0.072	1.000	0.072	0.027	0.027	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.9	15.85	-0.08	0	Ant 4b	DLXZG001P7GP	QPSK	50	0	0 mm	left	1:1.58	0.068	1.012	0.069	0.025	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 10-57
LTE Band 48 Ant 1 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
3560.00	55340	Low	LTE Band 48	20	15.3	14.83	0.07	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	back	1:1.58	1.050	1.114	1.170	0.352	0.392	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.26	-0.11	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	back	1:1.58	1.000	1.009	1.009	0.333	0.336	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.12	-0.05	0	Ant 1	DLXZR00GP7GX	QPSK	1	0	0 mm	back	1:1.58	1.030	1.042	1.073	0.338	0.352	
3690.00	56640	High	LTE Band 48	20	15.3	15.09	0.09	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	back	1:1.58	0.881	1.050	0.925	0.290	0.305	
3560.00	55340	Low	LTE Band 48	20	15.3	14.75	0.09	0	Ant 1	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1.58	0.945	1.135	1.073	0.317	0.360	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.06	-0.10	0	Ant 1	DLXZR00GP7GX	QPSK	50	50	0 mm	back	1:1.58	0.840	1.057	0.888	0.280	0.296	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.03	0.03	0	Ant 1	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1.58	0.957	1.064	1.018	0.316	0.336	
3690.00	56640	High	LTE Band 48	20	15.3	14.90	0.04	0	Ant 1	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1.58	0.917	1.096	1.005	0.308	0.338	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.04	0.12	0	Ant 1	DLXZR00GP7GX	QPSK	100	0	0 mm	back	1:1.58	0.850	1.062	0.903	0.282	0.299	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.26	0.03	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	top	1:1.58	0.003	1.009	0.003	0.002	0.002	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.06	0.06	0	Ant 1	DLXZR00GP7GX	QPSK	50	50	0 mm	top	1:1.58	0.003	1.057	0.003	0.002	0.002	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.26	0.13	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	bottom	1:1.58	0.339	1.009	0.342	0.093	0.094	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.06	0.02	0	Ant 1	DLXZR00GP7GX	QPSK	50	50	0 mm	bottom	1:1.58	0.317	1.057	0.335	0.087	0.092	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.26	-0.03	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	right	1:1.58	0.003	1.009	0.003	0.002	0.002	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.06	0.06	0	Ant 1	DLXZR00GP7GX	QPSK	50	50	0 mm	right	1:1.58	0.004	1.057	0.004	0.004	0.004	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.26	0.02	0	Ant 1	DLXZR00GP7GX	QPSK	1	99	0 mm	left	1:1.58	0.509	1.009	0.514	0.133	0.134	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.06	0.03	0	Ant 1	DLXZR00GP7GX	QPSK	50	50	0 mm	left	1:1.58	0.471	1.057	0.498	0.124	0.131	

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 10-58
LTE Band 48 Ant 3 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
3560.00	55340	Low	LTE Band 48	20	16.5	16.05	-0.20	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	back	1:1.58	0.829	1.109	0.919	0.250	0.277	
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	15.93	-0.20	0	Ant 3	DLXZR00GP7GX	QPSK	1	99	0 mm	back	1:1.58	0.799	1.140	0.911	0.239	0.272	
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.06	0.04	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	back	1:1.58	0.808	1.107	0.894	0.239	0.265	
3690.00	56640	High	LTE Band 48	20	16.5	15.79	-0.02	0	Ant 3	DLXZR00GP7GX	QPSK	1	99	0 mm	back	1:1.58	0.707	1.178	0.833	0.211	0.249	
3560.00	55340	Low	LTE Band 48	20	16.5	15.60	-0.08	0	Ant 3	DLXZR00GP7GX	QPSK	50	50	0 mm	back	1:1.58	0.801	1.230	0.985	0.230	0.283	
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	15.62	-0.08	0	Ant 3	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1.58	0.752	1.225	0.921	0.226	0.277	
3646.70	56207	Mid-High	LTE Band 48	20	16.5	15.76	-0.03	0	Ant 3	DLXZR00GP7GX	QPSK	50	0	0 mm	back	1:1.58	0.752	1.186	0.892	0.224	0.266	
3690.00	56640	High	LTE Band 48	20	16.5	15.61	-0.09	0	Ant 3	DLXZR00GP7GX	QPSK	50	50	0 mm	back	1:1.58	0.696	1.227	0.854	0.210	0.258	
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	15.75	-0.03	0	Ant 3	DLXZR00GP7GX	QPSK	100	0	0 mm	back	1:1.58	0.747	1.189	0.888	0.226	0.269	
3560.00	55340	Low	LTE Band 48	20	16.5	16.05	-0.04	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	top	1:1.58	0.774	1.109	0.858	0.208	0.231	
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	15.93	-0.04	0	Ant 3	DLXZR00GP7GX	QPSK	1	99	0 mm	top	1:1.58	0.714	1.140	0.814	0.189	0.215	
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.06	0.03	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	top	1:1.58	0.708	1.107	0.784	0.188	0.208	
3690.00	56640	High	LTE Band 48	20	16.5	15.79	0.01	0	Ant 3	DLXZR00GP7GX	QPSK	1	99	0 mm	top	1:1.58	0.589	1.178	0.694	0.153	0.180	
3560.00	55340	Low	LTE Band 48	20	16.5	15.60	0.15	0	Ant 3	DLXZR00GP7GX	QPSK	50	50	0 mm	top	1:1.58	0.711	1.230	0.875	0.190	0.234	
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	15.62	-0.05	0	Ant 3	DLXZR00GP7GX	QPSK	50	0	0 mm	top	1:1.58	0.673	1.225	0.824	0.179	0.219	
3646.70	56207	Mid-High	LTE Band 48	20	16.5	15.76	-0.03	0	Ant 3	DLXZR00GP7GX	QPSK	50	0	0 mm	top	1:1.58	0.646	1.186	0.766	0.166	0.197	
3690.00	56640	High	LTE Band 48	20	16.5	15.61	-0.01	0	Ant 3	DLXZR00GP7GX	QPSK	50	50	0 mm	top	1:1.58	0.594	1.227	0.729	0.154	0.189	
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	15.75	-0.03	0	Ant 3	DLXZR00GP7GX	QPSK	100	0	0 mm	top	1:1.58	0.681	1.189	0.810	0.179	0.213	
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.06	0.05	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	bottom	1:1.58	0.012	1.107	0.013	0.005	0.006	
3646.70	56207	Mid-High	LTE Band 48	20	16.5	15.76	0.08	0	Ant 3	DLXZR00GP7GX	QPSK	50	0	0 mm	bottom	1:1.58	0.011	1.186	0.013	0.005	0.006	
3560.00	55340	Low	LTE Band 48	20	16.5	16.05	0.09	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	right	1:1.58	1.070	1.109	1.187	0.300	0.333	A19
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	15.93	-0.04	0	Ant 3	DLXZR00GP7GX	QPSK	1	99	0 mm	right	1:1.58	0.993	1.140	1.132	0.272	0.310	
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.06	-0.01	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	right	1:1.58	0.970	1.107	1.074	0.264	0.292	
3690.00	56640	High	LTE Band 48	20	16.5	15.79	0.03	0	Ant 3	DLXZR00GP7GX	QPSK	1	99	0 mm	right	1:1.58	0.677	1.178	0.798	0.179	0.211	
3560.00	55340	Low	LTE Band 48	20	16.5	15.60	0.09	0	Ant 3	DLXZR00GP7GX	QPSK	50	50	0 mm	right	1:1.58	0.956	1.230	1.176	0.267	0.328	
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	15.62	-0.03	0	Ant 3	DLXZR00GP7GX	QPSK	50	0	0 mm	right	1:1.58	0.931	1.225	1.140	0.255	0.312	
3646.70	56207	Mid-High	LTE Band 48	20	16.5	15.76	-0.02	0	Ant 3	DLXZR00GP7GX	QPSK	50	0	0 mm	right	1:1.58	0.902	1.186	1.070	0.243	0.288	
3690.00	56640	High	LTE Band 48	20	16.5	15.61	-0.02	0	Ant 3	DLXZR00GP7GX	QPSK	50	50	0 mm	right	1:1.58	0.667	1.227	0.818	0.175	0.215	
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	15.75	-0.04	0	Ant 3	DLXZR00GP7GX	QPSK	100	0	0 mm	right	1:1.58	0.951	1.189	1.131	0.259	0.308	
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.06	0.02	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	left	1:1.58	0.004	1.107	0.004	0.003	0.003	
3646.70	56207	Mid-High	LTE Band 48	20	16.5	15.76	0.12	0	Ant 3	DLXZR00GP7GX	QPSK	50	0	0 mm	left	1:1.58	0.004	1.186	0.005	0.003	0.004	
3560.00	55340	Low	LTE Band 48	20	16.5	16.05	0.03	0	Ant 3	DLXZR00GP7GX	QPSK	1	0	0 mm	right	1:1.58	1.040	1.109	1.153	0.290	0.322	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Blue entry represents variability measurement.

Table 10-59
LTE Band 48 Ant 2b Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
3560.00	55340	Low	LTE Band 48	20	15.3	14.84	0.00	0	Ant 2b	DLXZR00FP7GX	QPSK	1	99	0 mm	back	1:1.58	1.030	1.112	1.145	0.306	0.340	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.08	-0.03	0	Ant 2b	DLXZR00FP7GX	QPSK	1	99	0 mm	back	1:1.58	0.860	1.052	0.905	0.255	0.268	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.07	0.00	0	Ant 2b	DLXZR00FP7GX	QPSK	1	0	0 mm	back	1:1.58	0.827	1.054	0.872	0.243	0.256	
3690.00	56640	High	LTE Band 48	20	15.3	15.21	0.00	0	Ant 2b	DLXZR00FP7GX	QPSK	1	99	0 mm	back	1:1.58	0.833	1.021	0.850	0.237	0.242	
3560.00	55340	Low	LTE Band 48	20	15.3	14.86	0.00	0	Ant 2b	DLXZR00FP7GX	QPSK	50	25	0 mm	back	1:1.58	0.977	1.107	1.082	0.295	0.327	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	14.88	-0.06	0	Ant 2b	DLXZR00FP7GX	QPSK	50	50	0 mm	back	1:1.58	0.824	1.102	0.908	0.243	0.268	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.02	0.01	0	Ant 2b	DLXZR00FP7GX	QPSK	50	0	0 mm	back	1:1.58	0.781	1.067	0.833	0.228	0.243	
3690.00	56640	High	LTE Band 48	20	15.3	15.23	0.03	0	Ant 2b	DLXZR00FP7GX	QPSK	50	50	0 mm	back	1:1.58	0.836	1.016	0.849	0.238	0.242	
3690.00	56640	High	LTE Band 48	20	15.3	15.20	0.02	0	Ant 2b	DLXZR00FP7GX	QPSK	100	0	0 mm	back	1:1.58	0.715	1.023	0.731	0.205	0.210	
3690.00	56640	High	LTE Band 48	20	15.3	15.21	0.09	0	Ant 2b	DLXZR00FP7GX	QPSK	1	99	0 mm	top	1:1.58	0.006	1.021	0.006	0.005	0.005	
3690.00	56640	High	LTE Band 48	20	15.3	15.23	0.06	0	Ant 2b	DLXZR00FP7GX	QPSK	50	50	0 mm	top	1:1.58	0.006	1.016	0.006	0.005	0.005	
3690.00	56640	High	LTE Band 48	20	15.3	15.21	-0.02	0	Ant 2b	DLXZR00FP7GX	QPSK	1	99	0 mm	bottom	1:1.58	0.279	1.021	0.285	0.080	0.082	
3690.00	56640	High	LTE Band 48	20	15.3	15.23	-0.01	0	Ant 2b	DLXZR00FP7GX	QPSK	50	50	0 mm	bottom	1:1.58	0.287	1.016	0.292	0.082	0.083	
3690.00	56640	High	LTE Band 48	20	15.3	15.21	0.03	0	Ant 2b	DLXZR00FP7GX	QPSK	1	99	0 mm	right	1:1.58	0.043	1.021	0.044	0.016	0.016	
3690.00	56640	High	LTE Band 48	20	15.3	15.23	0.05	0	Ant 2b	DLXZR00FP7GX	QPSK	50	50	0 mm	right	1:1.58	0.042	1.016	0.043	0.015	0.015	
3690.00	56640	High	LTE Band 48	20	15.3	15.21	0.04	0	Ant 2b	DLXZR00FP7GX	QPSK	1	99	0 mm	left	1:1.58	0.016	1.021	0.016	0.008	0.008	
3690.00	56640	High	LTE Band 48	20	15.3	15.23	0.03	0	Ant 2b	DLXZR00FP7GX	QPSK	50	50	0 mm	left	1:1.58	0.016	1.016	0.016	0.008	0.008	
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 10-60
LTE Band 48 Ant 4b Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
3560.00	55340	Low	LTE Band 48	20	16.3	16.15	0.04	0	Ant 4b	DLXZR00TP7GX	QPSK	1	50	0 mm	back	1:1.58	1.040	1.035	1.076	0.317	0.328	
3603.30	55773	Low-Mid	LTE Band 48	20	16.3	16.25	-0.02	0	Ant 4b	DLXZR00TP7GX	QPSK	1	99	0 mm	back	1:1.58	1.020	1.012	1.032	0.302	0.306	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.26	-0.03	0	Ant 4b	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1.58	1.040	1.009	1.049	0.311	0.314	
3690.00	56640	High	LTE Band 48	20	16.3	16.15	-0.03	0	Ant 4b	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1.58	1.030	1.035	1.066	0.301	0.312	
3560.00	55340	Low	LTE Band 48	20	16.3	16.21	-0.02	0	Ant 4b	DLXZR00TP7GX	QPSK	50	25	0 mm	back	1:1.58	1.030	1.021	1.052	0.309	0.315	
3603.30	55773	Low-Mid	LTE Band 48	20	16.3	16.06	-0.02	0	Ant 4b	DLXZR00TP7GX	QPSK	50	50	0 mm	back	1:1.58	0.949	1.057	1.003	0.280	0.296	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.22	-0.03	0	Ant 4b	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.975	1.019	0.994	0.290	0.296	
3690.00	56640	High	LTE Band 48	20	16.3	16.03	-0.03	0	Ant 4b	DLXZR00TP7GX	QPSK	50	0	0 mm	back	1:1.58	0.991	1.064	1.054	0.287	0.305	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.21	-0.01	0	Ant 4b	DLXZR00TP7GX	QPSK	100	0	0 mm	back	1:1.58	0.993	1.021	1.014	0.292	0.298	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.26	-0.04	0	Ant 4b	DLXZR00TP7GX	QPSK	1	0	0 mm	top	1:1.58	0.383	1.009	0.386	0.110	0.111	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.22	0.03	0	Ant 4b	DLXZR00TP7GX	QPSK	50	0	0 mm	top	1:1.58	0.368	1.019	0.375	0.105	0.107	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.26	-0.09	0	Ant 4b	DLXZR00TP7GX	QPSK	1	0	0 mm	bottom	1:1.58	0.005	1.009	0.005	0.004	0.004	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.22	0.07	0	Ant 4b	DLXZR00TP7GX	QPSK	50	0	0 mm	bottom	1:1.58	0.005	1.019	0.005	0.004	0.004	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.26	0.03	0	Ant 4b	DLXZR00TP7GX	QPSK	1	0	0 mm	right	1:1.58	0.038	1.009	0.038	0.012	0.012	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.22	0.06	0	Ant 4b	DLXZR00TP7GX	QPSK	50	0	0 mm	right	1:1.58	0.036	1.019	0.037	0.012	0.012	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.26	0.04	0	Ant 4b	DLXZR00TP7GX	QPSK	1	0	0 mm	left	1:1.58	0.034	1.009	0.034	0.011	0.011	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.22	-0.02	0	Ant 4b	DLXZR00TP7GX	QPSK	50	0	0 mm	left	1:1.58	0.032	1.019	0.033	0.010	0.010	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	16.26	-0.03	0	Ant 4b	DLXZR00TP7GX	QPSK	1	0	0 mm	back	1:1.58	1.040	1.009	1.049	0.307	0.310	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram														

Note: Blue entry represents variability measurement.

Table 10-61
2.4 GHz WLAN Ant 2a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																				
2412	1	802.11b	DSSS	22	13.0	11.80	0.05	0 mm	Ant 2a	V1	DLXZN003P7GX	1	back	99.2	0.872	1.318	1.008	1.158	0.382	0.508	
2412	1	802.11b	DSSS	22	13.0	11.53	-0.08	0 mm	Ant 2a	V2	DLXZN009P7GX	1	back	99.0	0.784	1.403	1.010	1.111	0.340	0.482	
2437	6	802.11b	DSSS	22	13.0	11.65	0.08	0 mm	Ant 2a	V1	DLXZN003P7GX	1	back	99.2	0.750	1.365	1.008	1.032	0.323	0.444	
2462	11	802.11b	DSSS	22	13.0	11.69	0.05	0 mm	Ant 2a	V1	DLXZN003P7GX	1	back	99.2	0.822	1.352	1.008	1.120	0.347	0.473	
2412	1	802.11b	DSSS	22	13.0	11.80	0.03	0 mm	Ant 2a	V1	DLXZN003P7GX	1	top	99.2	0.012	1.318	1.008	0.016	0.006	0.008	
2412	1	802.11b	DSSS	22	13.0	11.80	0.00	0 mm	Ant 2a	V1	DLXZN003P7GX	1	bottom	99.2	0.313	1.318	1.008	0.416	0.097	0.129	
2412	1	802.11b	DSSS	22	13.0	11.80	-0.01	0 mm	Ant 2a	V1	DLXZN003P7GX	1	right	99.2	0.521	1.318	1.008	0.692	0.182	0.242	
2412	1	802.11b	DSSS	22	13.0	11.80	0.02	0 mm	Ant 2a	V1	DLXZN003P7GX	1	left	99.2	0.002	1.318	1.008	0.003	0.001	0.001	
2462	11	802.11b	DSSS	22	6.0	5.49	-0.13	0 mm	Ant 2a	V1	DLXZN003P7GX	1	back	99.2	0.195	1.125	1.008	0.221	0.081	0.092	
2462	11	802.11b	DSSS	22	6.0	5.49	0.09	0 mm	Ant 2a	V1	DLXZN003P7GX	1	bottom	99.2	0.071	1.125	1.008	0.081	0.022	0.025	
2462	11	802.11b	DSSS	22	6.0	5.49	0.01	0 mm	Ant 2a	V1	DLXZN003P7GX	1	right	99.2	0.095	1.125	1.008	0.108	0.033	0.037	
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 10-62
2.4 GHz WLAN Ant 4a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																				
2412	1	802.11b	DSSS	22	13.0	11.80	-0.01	0 mm	Ant 4a	V1	DLXZN003P7GX	1	back	99.2	0.875	1.318	1.008	1.162	0.362	0.481	A20
2412	1	802.11b	DSSS	22	13.0	11.65	-0.02	0 mm	Ant 4a	V2	DLXZN009P7GX	1	back	99.3	0.835	1.365	1.007	1.148	0.345	0.474	
2437	6	802.11b	DSSS	22	13.0	11.66	0.02	0 mm	Ant 4a	V1	DLXZN003P7GX	1	back	99.2	0.782	1.361	1.008	1.073	0.322	0.442	
2462	11	802.11b	DSSS	22	13.0	11.67	-0.02	0 mm	Ant 4a	V1	DLXZN003P7GX	1	back	99.2	0.824	1.358	1.008	1.128	0.335	0.459	
2412	1	802.11b	DSSS	22	13.0	11.80	0.05	0 mm	Ant 4a	V1	DLXZN003P7GX	1	top	99.2	0.305	1.318	1.008	0.405	0.091	0.121	
2412	1	802.11b	DSSS	22	13.0	11.80	0.03	0 mm	Ant 4a	V1	DLXZN003P7GX	1	bottom	99.2	0.009	1.318	1.008	0.012	0.005	0.007	
2412	1	802.11b	DSSS	22	13.0	11.80	0.16	0 mm	Ant 4a	V1	DLXZN003P7GX	1	right	99.2	0.003	1.318	1.008	0.004	0.001	0.001	
2412	1	802.11b	DSSS	22	13.0	11.80	0.06	0 mm	Ant 4a	V1	DLXZN003P7GX	1	left	99.2	0.533	1.318	1.008	0.708	0.187	0.248	
2437	6	802.11b	DSSS	22	6.0	5.49	0.11	0 mm	Ant 4a	V1	DLXZN003P7GX	1	back	99.2	0.183	1.125	1.008	0.208	0.076	0.086	
2437	6	802.11b	DSSS	22	6.0	5.49	0.08	0 mm	Ant 4a	V1	DLXZN003P7GX	1	top	99.2	0.075	1.125	1.008	0.085	0.022	0.025	
2437	6	802.11b	DSSS	22	6.0	5.49	0.02	0 mm	Ant 4a	V1	DLXZN003P7GX	1	left	99.2	0.138	1.125	1.008	0.156	0.051	0.058	
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 10-63
5 GHz WLAN 5GHz ANTlower Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)	(W/kg)	
5270	54	802.11n	OFDM	40	16.5	15.35	-0.05	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	13.5	back	98.1	0.042	1.303	1.019	0.056	0.015	0.020	
5270	54	802.11n	OFDM	40	16.5	15.35	0.00	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	13.5	top	98.1	0.000	1.303	1.019	0.000	0.000	0.000	
5270	54	802.11n	OFDM	40	16.5	15.35	0.00	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	13.5	bottom	98.1	0.000	1.303	1.019	0.000	0.000	0.000	
5270	54	802.11n	OFDM	40	16.5	15.60	0.20	0 mm	5GHz ANTlower	V1	DLXZN003P7GX	13.5	right	97.8	0.797	1.230	1.022	1.002	0.182	0.229	
5270	54	802.11n	OFDM	40	16.5	15.35	-0.05	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	13.5	right	98.1	0.769	1.303	1.019	1.021	0.182	0.242	
5310	62	802.11n	OFDM	40	13.5	12.56	0.02	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	13.5	right	98.1	0.316	1.242	1.019	0.400	0.070	0.089	
5270	54	802.11n	OFDM	40	16.5	15.35	0.00	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	13.5	left	98.1	0.000	1.303	1.019	0.000	0.000	0.000	
5270	54	802.11ac	OFDM	40	12.5	12.42	0.06	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	right	98.1	0.275	1.019	1.019	0.286	0.062	0.064	
5610	122	802.11ac	OFDM	80	16.5	15.60	0.17	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	back	95.0	0.053	1.230	1.053	0.069	0.019	0.025	
5610	122	802.11ac	OFDM	80	16.5	15.60	0.00	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	top	95.0	0.000	1.230	1.053	0.000	0.000	0.000	
5610	122	802.11ac	OFDM	80	16.5	15.60	0.00	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	bottom	95.0	0.000	1.230	1.053	0.000	0.000	0.000	
5530	106	802.11ac	OFDM	80	12.5	10.61	0.11	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	right	95.0	0.226	1.545	1.053	0.368	0.047	0.076	
5610	122	802.11ac	OFDM	80	16.5	15.60	0.10	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	right	95.0	0.896	1.230	1.053	1.160	0.222	0.288	
5690	138	802.11ac	OFDM	80	16.5	15.57	0.14	0 mm	5GHz ANTlower	V1	DLXZN002P7GX	29.3	right	96.0	0.860	1.239	1.042	1.110	0.209	0.270	
5690	138	802.11ac	OFDM	80	16.5	15.55	0.06	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	right	95.0	0.900	1.245	1.053	**1.180**	0.229	0.300	
5610	122	802.11ac	OFDM	80	16.5	15.60	0.03	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	left	95.0	0.016	1.230	1.053	0.021	0.007	0.009	
5690	138	802.11ac	OFDM	80	12.5	12.50	0.12	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	right	95.0	0.414	1.000	1.053	0.436	0.104	0.110	
5775	155	802.11ac	OFDM	80	15.5	14.52	0.04	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	back	95.0	0.061	1.253	1.053	0.080	0.022	0.029	
5775	155	802.11ac	OFDM	80	15.5	14.52	0.00	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	top	95.0	0.000	1.253	1.053	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	15.5	14.52	0.00	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	bottom	95.0	0.000	1.253	1.053	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	15.5	14.50	-0.14	0 mm	5GHz ANTlower	V1	DLXZN002P7GX	29.3	right	96.0	0.797	1.259	1.042	1.046	0.209	0.274	
5775	155	802.11ac	OFDM	80	15.5	14.52	-0.13	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	right	95.0	0.854	1.253	1.053	1.127	0.222	0.293	
5775	155	802.11ac	OFDM	80	15.5	14.52	0.01	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	left	95.0	0.000	1.253	1.053	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	11.5	11.49	0.16	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	right	95.0	0.385	1.002	1.053	0.406	0.097	0.102	
5610	122	802.11ac	OFDM	80	16.5	15.60	0.02	0 mm	5GHz ANTlower	V2	DLXZR00JP7GX	29.3	right	95.0	0.886	1.230	1.053	1.148	0.222	0.288	
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 10-64
5 GHz WLAN 5GHz ANTupper Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)	(W/kg)	
5270	54	802.11n	OFDM	40	16.25	15.33	0.07	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	13.5	back	98.0	0.092	1.236	1.020	0.116	0.036	0.045	
5270	54	802.11n	OFDM	40	16.25	15.33	0.00	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	13.5	top	98.0	0.000	1.236	1.020	0.000	0.000	0.000	
5270	54	802.11n	OFDM	40	16.25	15.33	0.00	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	13.5	bottom	98.0	0.000	1.236	1.020	0.000	0.000	0.000	
5270	54	802.11n	OFDM	40	16.25	15.45	-0.16	0 mm	5GHz ANTupper	V1	DLXZN002P7GX	13.5	right	98.2	0.821	1.202	1.018	1.005	0.244	0.299	
5270	54	802.11n	OFDM	40	16.25	15.33	-0.04	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	13.5	right	98.0	0.889	1.236	1.020	1.121	0.259	0.327	
5310	62	802.11n	OFDM	40	13.50	12.51	-0.03	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	13.5	right	98.0	0.430	1.256	1.020	0.551	0.127	0.163	
5270	54	802.11n	OFDM	40	16.25	15.33	0.07	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	13.5	left	98.0	0.008	1.236	1.020	0.010	0.035	0.044	
5270	54	802.11ac	OFDM	40	11.25	11.17	0.01	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	13.5	back	98.0	0.020	1.019	1.020	0.021	0.007	0.007	
5290	58	802.11ac	OFDM	80	11.25	11.17	-0.01	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	29.3	right	98.0	0.302	1.019	1.020	0.314	0.084	0.087	
5610	122	802.11ac	OFDM	80	15.00	14.18	-0.12	0 mm	5GHz ANTupper	V2	DLXZR00JP7GX	29.3	back	95.7	0.086	1.208	1.045	0.109	0.033	0.042	
5610	122	802.11ac	OFDM	80	15.00	14.18	-0.02	0 mm	5GHz ANTupper	V2	DLXZR00JP7GX	29.3	top	95.7	0.000	1.208	1.045	0.000	0.000	0.000	
5610	122	802.11ac	OFDM	80	15.00	14.18	-0.01	0 mm	5GHz ANTupper	V2	DLXZR00JP7GX	29.3	bottom	95.7	0.000	1.208	1.045	0.000	0.000	0.000	
5530	106	802.11ac	OFDM	80	12.50	10.65	0.19	0 mm	5GHz ANTupper	V2	DLXZR00JP7GX	29.3	right	95.7	0.311	1.531	1.045	0.498	0.093	0.149	
5610	122	802.11ac	OFDM	80	15.00	14.06	0.04	0 mm	5GHz ANTupper	V1	DLXZN002P7GX	29.3	right	95.7	0.841	1.242	1.045	1.092	0.275	0.357	
5610	122	802.11ac	OFDM	80	15.00	14.18	0.06	0 mm	5GHz ANTupper	V2	DLXZR00JP7GX	29.3	right	95.7	0.872	1.208	1.045	1.101	0.284	0.359	
5690	138	802.11ac	OFDM	80	15.00	14.05	-0.10	0 mm	5GHz ANTupper	V2	DLXZR00JP7GX	29.3	right	95.7	0.688	1.245	1.045	0.895	0.226	0.294	
5610	122	802.11ac	OFDM	80	15.00	14.18	-0.09	0 mm	5GHz ANTupper	V2	DLXZR00JP7GX	29.3	left	95.7	0.012	1.208	1.045	0.015	0.005	0.006	
5690	138	802.11ac	OFDM	80	10.00	10.00	-0.03	0 mm	5GHz ANTupper	V2	DLXZR00JP7GX	29.3	back	95.7	0.016	1.000	1.045	0.017	0.006	0.006	
5690	138	802.11ac	OFDM	80	10.00	10.00	-0.06	0 mm	5GHz ANTupper	V2	DLXZR00JP7GX	29.3	right	95.7	0.314	1.000	1.045	0.328	0.095	0.099	
5775	155	802.11ac	OFDM	80	15.50	14.68	0.15	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	29.3	back	95.7	0.104	1.208	1.045	0.131	0.041	0.052	
5775	155	802.11ac	OFDM	80	15.50	14.68	0.00	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	29.3	top	95.7	0.000	1.208	1.045	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	15.50	14.68	0.00	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	29.3	bottom	95.7	0.000	1.208	1.045	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	15.50	14.60	0.06	0 mm	5GHz ANTupper	V1	DLXZN002P7GX	29.3	right	95.7	0.756	1.230	1.045	0.972	0.270	0.347	
5775	155	802.11ac	OFDM	80	15.50	14.68	0.20	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	29.3	right	95.7	0.937	1.208	1.045	1.183	0.323	0.408	A21
5775	155	802.11ac	OFDM	80	15.50	14.68	0.09	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	29.3	left	95.7	0.017	1.208	1.045	0.021	0.005	0.006	
5775	155	802.11ac	OFDM	80	10.50	10.39	0.07	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	29.3	back	95.7	0.023	1.026	1.045	0.025	0.008	0.009	
5775	155	802.11ac	OFDM	80	10.50	10.39	0.11	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	29.3	right	95.7	0.287	1.026	1.045	0.308	0.093	0.100	
5270	54	802.11n	OFDM	40	16.25	15.33	-0.04	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	13.5	right	98.0	0.880	1.236	1.020	1.109	0.259	0.327	
5775	155	802.11ac	OFDM	80	15.50	14.68	0.20	0 mm	5GHz ANTupper	V2	DLXZN009P7GX	29.3	right	95.7	0.921	1.208	1.045	1.163	0.326	0.412	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: Blue entry represents variability measurement.

Table 10-65
Bluetooth Ant 2a Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	(W/kg)	(W/kg)	
2402	0	Bluetooth	FHSS	14.0	13.51	-0.05	0 mm	Ant 2a	V1	DLXZN003P7GX	1	back	77.1	1.050	1.119	1.005	1.181	0.463	0.521	
2402	0	Bluetooth	FHSS	14.0	13.28	0.02	0 mm	Ant 2a	V2	DLXZN009P7GX	1	back	77.1	0.818	1.180	1.005	0.970	0.350	0.415	
2441	39	Bluetooth	FHSS	14.0	13.69	0.01	0 mm	Ant 2a	V1	DLXZN003P7GX	1	back	77.1	1.090	1.074	1.005	1.177	0.470	0.507	A22
2480	78	Bluetooth	FHSS	14.0	13.49	0.12	0 mm	Ant 2a	V1	DLXZN003P7GX	1	back	77.1	1.030	1.125	1.005	1.165	0.443	0.501	
2441	39	Bluetooth	FHSS	14.0	13.69	0.04	0 mm	Ant 2a	V1	DLXZN003P7GX	1	top	77.1	0.012	1.074	1.005	0.013	0.006	0.006	
2441	39	Bluetooth	FHSS	14.0	13.69	0.01	0 mm	Ant 2a	V1	DLXZN003P7GX	1	bottom	77.1	0.355	1.074	1.005	0.383	0.109	0.118	
2441	39	Bluetooth	FHSS	14.0	13.69	0.01	0 mm	Ant 2a	V1	DLXZN003P7GX	1	right	77.1	0.711	1.074	1.005	0.767	0.250	0.270	
2441	39	Bluetooth	FHSS	14.0	13.69	0.00	0 mm	Ant 2a	V1	DLXZN003P7GX	1	left	77.1	0.003	1.074	1.005	0.003	0.002	0.002	
2441	39	Bluetooth	FHSS	11.0	10.75	-0.01	0 mm	Ant 2a	V1	DLXZN003P7GX	1	back	77.1	0.509	1.059	1.005	0.542	0.219	0.233	
2441	39	Bluetooth	FHSS	11.0	10.75	-0.01	0 mm	Ant 2a	V1	DLXZN003P7GX	1	bottom	77.1	0.182	1.059	1.005	0.194	0.055	0.059	
2441	39	Bluetooth	FHSS	11.0	10.75	0.05	0 mm	Ant 2a	V1	DLXZN003P7GX	1	right	77.1	0.313	1.059	1.005	0.333	0.110	0.117	
2480	78	Bluetooth	FHSS	7.0	6.87	0.05	0 mm	Ant 2a	V1	DLXZN003P7GX	1	back	77.1	0.231	1.030	1.005	0.239	0.096	0.099	
2480	78	Bluetooth	FHSS	7.0	6.87	0.11	0 mm	Ant 2a	V1	DLXZN003P7GX	1	bottom	77.1	0.104	1.030	1.005	0.108	0.031	0.032	
2480	78	Bluetooth	FHSS	7.0	6.87	0.06	0 mm	Ant 2a	V1	DLXZN003P7GX	1	right	77.1	0.119	1.030	1.005	0.123	0.044	0.046	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per the manufacturer.

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Table 10-66
Bluetooth Ant 4a Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																			
2402	0	Bluetooth	FHSS	14.0	13.07	-0.05	0 mm	Ant 4a	V2	DLXZN009P7GX	1	back	77.1	0.946	1.239	1.005	**1.178**	0.399	0.497	
2441	39	Bluetooth	FHSS	14.0	12.94	0.02	0 mm	Ant 4a	V2	DLXZN009P7GX	1	back	77.1	0.906	1.276	1.005	1.162	0.368	0.472	
2480	78	Bluetooth	FHSS	14.0	13.45	0.04	0 mm	Ant 4a	V1	DLXZN003P7GX	1	back	76.9	0.914	1.135	1.008	1.046	0.368	0.421	
2480	78	Bluetooth	FHSS	14.0	13.22	0.04	0 mm	Ant 4a	V2	DLXZN009P7GX	1	back	77.1	0.981	1.197	1.005	**1.180**	0.402	0.484	
2480	78	Bluetooth	FHSS	14.0	13.22	0.00	0 mm	Ant 4a	V2	DLXZN009P7GX	1	top	77.1	0.507	1.197	1.005	0.610	0.144	0.173	
2480	78	Bluetooth	FHSS	14.0	13.22	0.02	0 mm	Ant 4a	V2	DLXZN009P7GX	1	bottom	77.1	0.015	1.197	1.005	0.018	0.005	0.006	
2480	78	Bluetooth	FHSS	14.0	13.22	-0.05	0 mm	Ant 4a	V2	DLXZN009P7GX	1	right	77.1	0.001	1.197	1.005	0.001	0.000	0.000	
2480	78	Bluetooth	FHSS	14.0	13.22	-0.02	0 mm	Ant 4a	V2	DLXZN009P7GX	1	left	77.1	0.661	1.197	1.005	0.795	0.227	0.273	
2480	78	Bluetooth	FHSS	7.0	6.27	0.07	0 mm	Ant 4a	V2	DLXZN009P7GX	1	back	77.1	0.303	1.183	1.005	0.360	0.127	0.151	
2480	78	Bluetooth	FHSS	7.0	6.27	0.07	0 mm	Ant 4a	V2	DLXZN009P7GX	1	top	77.1	0.090	1.183	1.005	0.107	0.027	0.032	
2480	78	Bluetooth	FHSS	7.0	6.27	0.05	0 mm	Ant 4a	V2	DLXZN009P7GX	1	left	77.1	0.247	1.183	1.005	0.294	0.085	0.101	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per the manufacturer.

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 D04v01r02 and FCC KDB Publication 447498 D01v06.
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 D01v06.
6. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
7. FCC KDB Publication 616217 D04v01r02 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 D01v06 was applied to determine SAR test exclusion for adjacent edge configurations.

GSM Test Notes:

1. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations 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 > ½ dB, instead of the middle channel, the highest output power channel was used.

UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.

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2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations 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 > ½ dB, instead of the middle channel, the highest output power channel was used.

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 7.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 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 D01v06, when the reported LTE Band 41 and Band 48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. 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.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 13 for linearity results.
8. For intra-band ULCA LTE Band 7, LTE Band 5, and LTE Band 41, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
9. For inter-band uplink carrier aggregation, additional SAR Measurements were performed for some positions at the maximum allowed output power in inter-band ULCA mode. All single uplink 1g SAR values for each band were < 0.8 W/kg and the algebraic summation of the 1g SAR inter-band ULCA values were < 1.45. Per Fall 2018 TCB Workshop notes, no additional measurements were required.

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WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.6.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 7.6.5 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 11 for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.

Bluetooth Notes:

1. Bluetooth SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per the manufacturer. See Section 8.6 for the time domain plot and calculation for the duty factor of the device.

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11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

11.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Note:
SAR Summations for some scenarios when the output power levels are reduced, SAR values at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

For each position, the highest SAR value across all modes for the applicable cellular band antenna was considered for summation to determine simultaneous SAR test exclusion.

*The SAR distributions for at least one of the antennas are spatially separated from the other antennas per FCC KDB Publication 248227 Section 6.1 procedures. Therefore, the simultaneous transmission were treated independently for this configuration. See section 11.4 for more information about the Spatial Separation Analysis.

11.3 Body SAR Simultaneous Transmission Analysis

Table 11-1
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.170	1.158	1.162	1.170*	1.170*	1.170*
	Top	0.052	0.016	0.405	0.068	0.457	0.473
	Bottom	0.646	0.416	0.012	1.062	0.658	1.074
	Right	0.016	0.692	0.004	0.708	0.020	0.712
	Left	1.168	0.003	0.708	**1.171**	1.168*	1.171*

Table 11-2
Cellular Band Ant 2A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2a SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.126	0.221	1.162	**1.347**	1.162*	1.347*
	Top	0.021	0.016	0.405	0.037	0.426	0.442
	Bottom	0.429	0.081	0.012	0.510	0.441	0.522
	Right	0.986	0.108	0.004	1.094	0.990	1.098
	Left	0.006	0.003	0.708	0.009	0.714	0.717

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Table 11-3
Cellular Band Ant 2B Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2b SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.187	0.221	1.162	**1.408**	1.187*	1.408*
	Top	0.006	0.016	0.405	0.022	0.411	0.427
	Bottom	0.750	0.081	0.012	0.831	0.762	0.843
	Right	0.055	0.108	0.004	0.163	0.059	0.167
	Left	0.023	0.003	0.708	0.026	0.731	0.734

Table 11-4
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 3 SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.141	1.158	1.162	1.158*	1.162*	1.162*
	Top	0.875	0.016	0.405	0.891	1.280	**1.296**
	Bottom	0.064	0.416	0.012	0.480	0.076	0.492
	Right	1.187	0.692	0.004	1.187*	1.191	1.191*
	Left	0.016	0.003	0.708	0.019	0.724	0.727

Table 11-5
Cellular Band Ant 4A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 4a SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.175	1.158	0.208	1.175*	**1.383**	1.383*
	Top	0.433	0.016	0.085	0.449	0.518	0.534
	Bottom	0.020	0.416	0.012	0.436	0.032	0.448
	Right	0.002	0.692	0.004	0.694	0.006	0.698
	Left	1.097	0.003	0.156	1.100	1.253	1.256

Table 11-6
Cellular Band Ant 4B Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 4b SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.128	1.158	0.208	1.158*	**1.336**	1.336*
	Top	0.850	0.016	0.085	0.866	0.935	0.951
	Bottom	0.010	0.416	0.012	0.426	0.022	0.438
	Right	0.038	0.692	0.004	0.730	0.042	0.734
	Left	0.078	0.003	0.156	0.081	0.234	0.237

Table 11-7
Cellular Band Ant 1 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.170	0.080	0.131	1.250	1.301	**1.381**
	Top	0.052	0.000	0.000	0.052	0.052	0.052
	Bottom	0.646	0.000	0.000	0.646	0.646	0.646
	Right	0.016	1.180	1.183	1.196	1.199	1.199*
	Left	1.168	0.021	0.021	1.189	1.189	1.210

Table 11-8
Cellular Band Ant 2A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2a SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.126	0.080	0.131	1.206	1.257	1.337
	Top	0.021	0.000	0.000	0.021	0.021	0.021
	Bottom	0.429	0.000	0.000	0.429	0.429	0.429
	Right	0.986	0.436	1.183	**1.422**	1.183*	1.422*
	Left	0.006	0.021	0.021	0.027	0.027	0.048

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Table 11-9
Cellular Band Ant 2B Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2b SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.187	0.080	0.131	1.267	1.318	**1.398**
	Top	0.006	0.000	0.000	0.006	0.006	0.006
	Bottom	0.750	0.000	0.000	0.750	0.750	0.750
	Right	0.055	1.180	1.183	1.235	1.238	1.238*
	Left	0.023	0.021	0.021	0.044	0.044	0.065

Table 11-10
Cellular Band Ant 3 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 3 SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.141	0.080	0.025	1.221	1.166	1.246
	Top	0.875	0.000	0.000	0.875	0.875	0.875
	Bottom	0.064	0.000	0.000	0.064	0.064	0.064
	Right	1.187	1.180	0.328	1.187*	**1.515**	1.515*
	Left	0.016	0.021	0.021	0.037	0.037	0.058

Table 11-11
Cellular Band Ant 4A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 4a SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.175	0.080	0.131	1.255	1.306	**1.386**
	Top	0.433	0.000	0.000	0.433	0.433	0.433
	Bottom	0.020	0.000	0.000	0.020	0.020	0.020
	Right	0.002	1.180	1.183	1.182	1.185	1.185*
	Left	1.097	0.021	0.021	1.118	1.118	1.139

Table 11-12
Cellular Band Ant 4B Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 4b SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body	Back	1.128	0.080	0.131	1.208	1.259	**1.339**
	Top	0.850	0.000	0.000	0.850	0.850	0.850
	Bottom	0.010	0.000	0.000	0.010	0.010	0.010
	Right	0.038	1.180	1.183	1.218	1.221	1.221*
	Left	0.078	0.021	0.021	0.099	0.099	0.120

Table 11-13
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 1 SAR (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.170	0.239	1.180	**1.409**	1.180*	1.180*
	Top	0.052	0.013	0.610	0.065	0.662	0.675
	Bottom	0.646	0.108	0.018	0.754	0.664	0.772
	Right	0.016	0.123	0.001	0.139	0.017	0.140
	Left	1.168	0.003	0.795	1.171	1.168*	1.171*

Table 11-14
Cellular Band Ant 2A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 2a SAR (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.126	0.239	1.180	**1.365**	1.180*	1.365*
	Top	0.021	0.013	0.610	0.034	0.631	0.644
	Bottom	0.429	0.108	0.018	0.537	0.447	0.555
	Right	0.986	0.123	0.001	1.109	0.987	1.110
	Left	0.006	0.003	0.795	0.009	0.801	0.804

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Table 11-15
Cellular Band Ant 2B Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 2b SAR (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.187	0.239	1.180	**1.426**	1.187*	1.426*
	Top	0.006	0.013	0.610	0.019	0.616	0.629
	Bottom	0.750	0.108	0.018	0.858	0.768	0.876
	Right	0.055	0.123	0.001	0.178	0.056	0.179
	Left	0.023	0.003	0.795	0.026	0.818	0.821

Table 11-16
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 3 SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.141	1.181	0.360	1.181*	**1.501**	1.181*
	Top	0.875	0.013	0.107	0.888	0.982	0.995
	Bottom	0.064	0.383	0.018	0.447	0.082	0.465
	Right	1.187	0.767	0.001	1.187*	1.188	1.188*
	Left	0.016	0.003	0.294	0.019	0.310	0.313

Table 11-17
Cellular Band Ant 4A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 4a SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.175	1.181	0.360	1.181*	**1.535**	1.535*
	Top	0.433	0.013	0.107	0.446	0.540	0.553
	Bottom	0.020	0.383	0.018	0.403	0.038	0.421
	Right	0.002	0.767	0.001	0.769	0.003	0.770
	Left	1.097	0.003	0.294	1.100	1.391	1.394

Table 11-18
Cellular Band Ant 4B Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 4b SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body	Back	1.128	1.181	0.360	1.181*	**1.488**	1.488*
	Top	0.850	0.013	0.107	0.863	0.957	0.970
	Bottom	0.010	0.383	0.018	0.393	0.028	0.411
	Right	0.038	0.767	0.001	0.805	0.039	0.806
	Left	0.078	0.003	0.294	0.081	0.372	0.375

Table 11-19
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 1 SAR (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.170	0.239	1.180	0.080	0.131	1.381*
	Top	0.052	0.013	0.610	0.000	0.000	0.675
	Bottom	0.646	0.108	0.018	0.000	0.000	**0.772**
	Right	0.016	0.123	0.001	1.180	1.183	1.320*
	Left	1.168	0.003	0.795	0.021	0.021	1.213*

Table 11-20
Cellular Band Ant 2A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 2a SAR (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.126	0.239	1.180	0.080	0.131	1.576*
	Top	0.021	0.013	0.610	0.000	0.000	0.644
	Bottom	0.429	0.108	0.018	0.000	0.000	0.555
	Right	0.986	0.123	0.001	0.436	1.183	1.546*
	Left	0.006	0.003	0.795	0.021	0.021	**0.846**

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Table 11-21
Cellular Band Ant 2B Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 2b SAR (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.187	0.239	1.180	0.080	0.131	1.506*
	Top	0.006	0.013	0.610	0.000	0.000	**0.629**
	Bottom	0.750	0.108	0.018	0.000	0.000	0.876
	Right	0.055	0.123	0.001	1.180	1.183	1.359*
	Left	0.023	0.003	0.795	0.021	0.021	0.863

Table 11-22
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 3 SAR (W/kg)	Bluetooth Ant 2a at 11 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.141	0.542	0.360	0.080	0.025	1.246*
	Top	0.875	0.013	0.107	0.000	0.000	**0.995**
	Bottom	0.064	0.194	0.018	0.000	0.000	0.276
	Right	1.187	0.333	0.001	1.180	0.328	1.516*
	Left	0.016	0.003	0.294	0.021	0.021	0.355

Table 11-23
Cellular Band Ant 4A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 4a SAR (W/kg)	Bluetooth Ant 2a at 11 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.175	0.542	0.360	0.080	0.131	1.535*
	Top	0.433	0.013	0.107	0.000	0.000	0.553
	Bottom	0.020	0.194	0.018	0.000	0.000	0.232
	Right	0.002	0.333	0.001	1.180	1.183	1.516*
	Left	1.097	0.003	0.294	0.021	0.021	**1.436**

Table 11-24
Cellular Band Ant 4B Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 4b SAR (W/kg)	Bluetooth Ant 2a at 11 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.128	0.542	0.360	0.080	0.131	1.488*
	Top	0.850	0.013	0.107	0.000	0.000	**0.970**
	Bottom	0.010	0.194	0.018	0.000	0.000	0.222
	Right	0.038	0.333	0.001	1.180	1.183	1.552*
	Left	0.078	0.003	0.294	0.021	0.021	0.417

Table 11-25
Inter-band ULCA Cellular Bands Ant 1 and 2A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 2a Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.755	0.543	0.221	0.208	**1.519**	1.506	0.764*
	Top	0.052	0.020	0.016	0.085	0.088	0.157	0.173
	Bottom	0.646	0.391	0.081	0.012	1.118	1.049	1.130
	Right	0.016	0.798	0.108	0.004	0.922	0.818	0.926
	Left	0.516	0.002	0.003	0.156	0.521	0.674	0.677

Table 11-26
Inter-band ULCA Cellular Bands Ant 1 and 4A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.755	0.620	0.221	0.208	0.755*	**1.583**	0.828*
	Top	0.052	0.366	0.016	0.085	0.434	0.503	0.519
	Bottom	0.646	0.020	0.081	0.012	0.747	0.678	0.759
	Right	0.016	0.002	0.108	0.004	0.126	0.022	0.130
	Left	0.516	0.787	0.003	0.156	1.306	1.459	1.462

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Table 11-27
Inter-band ULCA Cellular Bands Ant 1 and 4B Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4b Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.755	0.613	0.221	0.208	**1.589**	1.576	0.821*
	Top	0.052	0.640	0.016	0.085	0.708	0.777	0.793
	Bottom	0.646	0.010	0.081	0.012	0.737	0.668	0.749
	Right	0.016	0.033	0.108	0.004	0.157	0.053	0.161
	Left	0.516	0.078	0.003	0.156	0.597	0.750	0.753

Table 11-28
Inter-band ULCA Cellular Bands Ant 2A and 3 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2a Inter-band ULCA Active (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.543	0.588	0.221	0.208	1.352	1.339	**1.560**
	Top	0.020	0.634	0.016	0.085	0.670	0.739	0.755
	Bottom	0.391	0.064	0.081	0.012	0.536	0.467	0.548
	Right	0.798	0.705	0.108	0.004	0.906*	0.802*	0.910*
	Left	0.002	0.013	0.003	0.156	0.018	0.171	0.174

Table 11-29
Inter-band ULCA Cellular Bands Ant 2B and 3 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2b Inter-band ULCA Active (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.533	0.588	0.221	0.208	1.342	1.329	**1.550**
	Top	0.005	0.634	0.016	0.085	0.655	0.724	0.740
	Bottom	0.729	0.064	0.081	0.012	0.874	0.805	0.886
	Right	0.055	0.705	0.108	0.004	0.868	0.764	0.872
	Left	0.023	0.013	0.003	0.156	0.039	0.192	0.195

Table 11-30
Inter-band ULCA Cellular Bands Ant 3 and 4A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.588	0.620	0.221	0.208	**1.429**	1.416	0.828*
	Top	0.634	0.366	0.016	0.085	1.016	1.085	1.101
	Bottom	0.064	0.020	0.081	0.012	0.165	0.096	0.177
	Right	0.705	0.002	0.108	0.004	0.815	0.711	0.819
	Left	0.013	0.787	0.003	0.156	0.803	0.956	0.959

Table 11-31
Inter-band ULCA Cellular Bands Ant 1 and 2A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 2a Inter-band ULCA Active (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.755	0.543	0.080	0.025	1.378	1.323	1.403
	Top	0.052	0.020	0.000	0.000	0.072	0.072	0.072
	Bottom	0.646	0.391	0.000	0.000	1.037	1.037	1.037
	Right	0.016	0.798	0.436	0.328	1.250	1.142	**1.578**
	Left	0.516	0.002	0.021	0.021	0.539	0.539	0.560

Table 11-32
Inter-band ULCA Cellular Bands Ant 1 and 4A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.755	0.620	0.080	0.025	1.455	1.400	**1.480**
	Top	0.052	0.366	0.000	0.000	0.418	0.418	0.418
	Bottom	0.646	0.020	0.000	0.000	0.666	0.666	0.666
	Right	0.016	0.002	0.436	0.328	0.454	0.346	0.782
	Left	0.516	0.787	0.021	0.021	1.324	1.324	1.345

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Table 11-33
Inter-band ULCA Cellular Bands Ant 1 and 4B Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4b Inter-band ULCA Active (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.755	0.613	0.080	0.025	1.448	1.393	**1.473**
	Top	0.052	0.640	0.000	0.000	0.692	0.692	0.692
	Bottom	0.646	0.010	0.000	0.000	0.656	0.656	0.656
	Right	0.016	0.033	0.436	0.328	0.485	0.377	0.813
	Left	0.516	0.078	0.021	0.021	0.615	0.615	0.636

Table 11-34
Inter-band ULCA Cellular Bands Ant 2A and 3 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2a Inter-band ULCA Active (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.543	0.588	0.080	0.025	1.211	1.156	**1.236**
	Top	0.020	0.634	0.000	0.000	0.654	0.654	0.654
	Bottom	0.391	0.064	0.000	0.000	0.455	0.455	0.455
	Right	0.798	0.705	0.436	0.328	1.234*	1.033*	1.234*
	Left	0.002	0.013	0.021	0.021	0.036	0.036	0.057

Table 11-35
Inter-band ULCA Cellular Bands Ant 2B and 3 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2b Inter-band ULCA Active (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.533	0.588	0.080	0.025	1.201	1.146	1.226
	Top	0.005	0.634	0.000	0.000	0.639	0.639	0.639
	Bottom	0.729	0.064	0.000	0.000	0.793	0.793	0.793
	Right	0.055	0.705	0.436	0.328	1.196	1.088	**1.524**
	Left	0.023	0.013	0.021	0.021	0.057	0.057	0.078

Table 11-36
Inter-band ULCA Cellular Bands Ant 3 and 4A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.588	0.620	0.080	0.025	1.288	1.233	1.313
	Top	0.634	0.366	0.000	0.000	1.000	1.000	1.000
	Bottom	0.064	0.020	0.000	0.000	0.084	0.084	0.084
	Right	0.705	0.002	0.436	0.328	1.143	1.035	**1.471**
	Left	0.013	0.787	0.021	0.021	0.821	0.821	0.842

Table 11-37
Inter-band ULCA Cellular Bands Ant 1 and 2A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 2a Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.755	0.543	0.239	0.360	**1.537**	0.755*	0.782*
	Top	0.052	0.020	0.013	0.107	0.085	0.179	0.192
	Bottom	0.646	0.391	0.108	0.018	1.145	1.055	1.163
	Right	0.016	0.798	0.123	0.001	0.937	0.815	0.938
	Left	0.516	0.002	0.003	0.294	0.521	0.812	0.815

Table 11-38
Inter-band ULCA Cellular Bands Ant 1 and 4A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.755	0.620	0.239	0.360	0.755*	0.980*	0.980*
	Top	0.052	0.366	0.013	0.107	0.431	0.525	0.538
	Bottom	0.646	0.020	0.108	0.018	0.774	0.684	0.792
	Right	0.016	0.002	0.123	0.001	0.141	0.019	0.142
	Left	0.516	0.787	0.003	0.294	**1.306**	1.081*	1.084*

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Table 11-39
Inter-band ULCA Cellular Bands Ant 1 and 4B Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4b Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.755	0.613	0.239	0.360	0.755*	0.973*	0.973*
	Top	0.052	0.640	0.013	0.107	0.705	0.799	0.812
	Bottom	0.646	0.010	0.108	0.018	0.764	0.674	0.782
	Right	0.016	0.033	0.123	0.001	0.172	0.050	0.173
	Left	0.516	0.078	0.003	0.294	0.597	0.888	**0.891**

Table 11-40
Inter-band ULCA Cellular Bands Ant 2A and 3 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 2a Inter-band ULCA Active (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.543	0.588	0.239	0.360	1.370	**1.491**	0.782*
	Top	0.020	0.634	0.013	0.107	0.667	0.761	0.774
	Bottom	0.391	0.064	0.108	0.018	0.563	0.473	0.581
	Right	0.798	0.705	0.123	0.001	0.921*	0.799*	0.922*
	Left	0.002	0.013	0.003	0.294	0.018	0.309	0.312

Table 11-41
Inter-band ULCA Cellular Bands Ant 2B and 3 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 2b Inter-band ULCA Active (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.533	0.588	0.239	0.360	1.360	**1.481**	0.772*
	Top	0.005	0.634	0.013	0.107	0.652	0.746	0.759
	Bottom	0.729	0.064	0.108	0.018	0.901	0.811	0.919
	Right	0.055	0.705	0.123	0.001	0.883	0.761	0.884
	Left	0.023	0.013	0.003	0.294	0.039	0.330	0.333

Table 11-42
Inter-band ULCA Cellular Bands Ant 3 and 4A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.588	0.620	0.239	0.360	1.447	**1.568**	0.980*
	Top	0.634	0.366	0.013	0.107	1.013	1.107	1.120
	Bottom	0.064	0.020	0.108	0.018	0.192	0.102	0.210
	Right	0.705	0.002	0.123	0.001	0.830	0.708	0.831
	Left	0.013	0.787	0.003	0.294	0.803	1.094	1.097

Table 11-43
Inter-band ULCA Cellular Bands Ant 1 and 2A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 2a Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.755	0.543	0.239	0.360	0.080	0.025	0.887*
	Top	0.052	0.020	0.013	0.107	0.000	0.000	0.192
	Bottom	0.646	0.391	0.108	0.018	0.000	0.000	**1.163**
	Right	0.016	0.798	0.123	0.001	0.436	0.328	1.374*
	Left	0.516	0.002	0.003	0.294	0.021	0.021	0.857

Table 11-44
Inter-band ULCA Cellular Bands Ant 1 and 4A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.755	0.620	0.239	0.360	0.080	0.025	0.980*
	Top	0.052	0.366	0.013	0.107	0.000	0.000	0.538
	Bottom	0.646	0.020	0.108	0.018	0.000	0.000	0.792
	Right	0.016	0.002	0.123	0.001	0.436	0.328	**0.906**
	Left	0.516	0.787	0.003	0.294	0.021	0.021	1.126*

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Table 11-45
Inter-band ULCA Cellular Bands Ant 1 and 4B Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4b Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.755	0.613	0.239	0.360	0.080	0.025	0.973*
	Top	0.052	0.640	0.013	0.107	0.000	0.000	0.812
	Bottom	0.646	0.010	0.108	0.018	0.000	0.000	0.782
	Right	0.016	0.033	0.123	0.001	0.436	0.328	**0.937**
	Left	0.516	0.078	0.003	0.294	0.021	0.021	0.933

Table 11-46
Inter-band ULCA Cellular Bands Ant 2A and 3 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 2a Inter-band ULCA Active (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.543	0.588	0.239	0.360	0.080	0.025	0.887*
	Top	0.020	0.634	0.013	0.107	0.000	0.000	**0.774**
	Bottom	0.391	0.064	0.108	0.018	0.000	0.000	0.581
	Right	0.798	0.705	0.123	0.001	0.436	0.328	1.358*
	Left	0.002	0.013	0.003	0.294	0.021	0.021	0.354

Table 11-47
Inter-band ULCA Cellular Bands Ant 2B and 3 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 2b Inter-band ULCA Active (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.533	0.588	0.239	0.360	0.080	0.025	0.852*
	Top	0.005	0.634	0.013	0.107	0.000	0.000	0.759
	Bottom	0.729	0.064	0.108	0.018	0.000	0.000	**0.919**
	Right	0.055	0.705	0.123	0.001	0.436	0.328	1.089*
	Left	0.023	0.013	0.003	0.294	0.021	0.021	0.375

Table 11-48
Inter-band ULCA Cellular Bands Ant 3 and 4A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 3 Inter-band ULCA Active (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body	Back	0.588	0.620	0.239	0.360	0.080	0.025	0.980*
	Top	0.634	0.366	0.013	0.107	0.000	0.000	1.120
	Bottom	0.064	0.020	0.108	0.018	0.000	0.000	0.210
	Right	0.705	0.002	0.123	0.001	0.436	0.328	1.036*
	Left	0.013	0.787	0.003	0.294	0.021	0.021	**1.139**

Table 11-49
2.4 GHz Bluetooth MIMO Simultaneous Transmission Scenario with 5 GHz WLAN MIMO

Simult Tx	Configuration	Bluetooth Ant 2a at 11 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.542	1.180	0.080	0.131	1.180*
	Top	0.013	0.610	0.000	0.000	0.623
	Bottom	0.194	0.018	0.000	0.000	0.212
	Right	0.333	0.001	1.180	1.183	1.514*
	Left	0.003	0.795	0.021	0.021	**0.840**

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Table 11-50
Simultaneous Transmission Scenario with 2.4 GHz Bluetooth

Simult Tx	Configuration	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body SAR	Back	1.181	1.180	1.181*
	Top	0.013	0.610	0.623
	Bottom	0.383	0.018	0.401
	Right	0.767	0.001	0.768
	Left	0.003	0.795	**0.798**

Notes:
1. For each position, the highest SAR value across all modes for the applicable cellular band antenna was considered for summation to determine simultaneous SAR test exclusion.

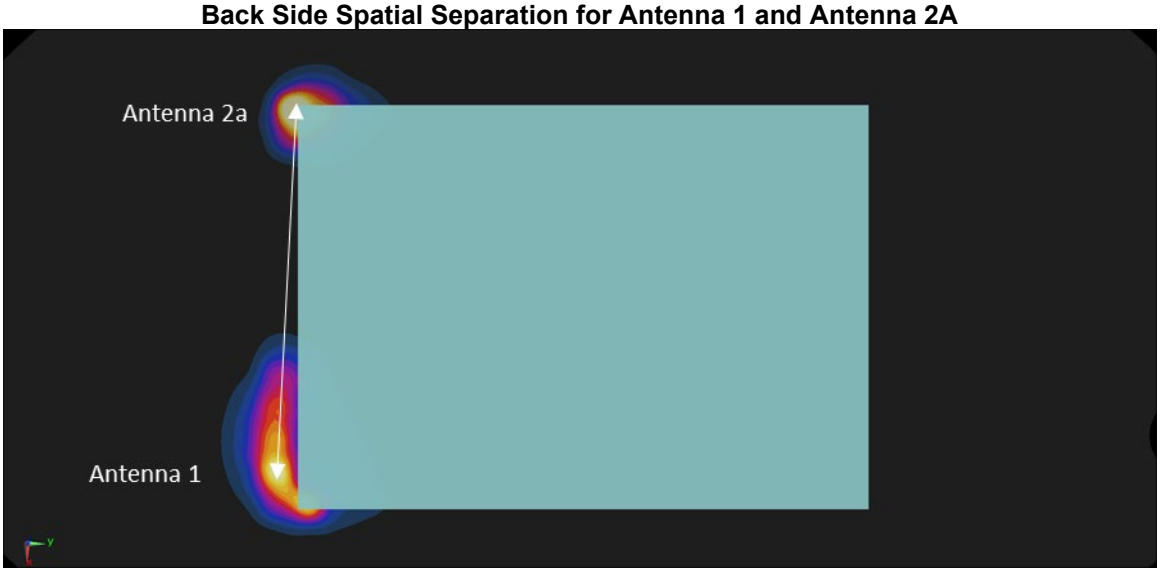
11.4 Spatial Separation Analysis

Per FCC KDB Publication 248227, antennas may be considered spatially separated when the aggregate SAR from multiple antennas at any location in the combined SAR distribution is either ≤ 1.2 W/kg where at least 90% of the SAR is attributed to a single SAR distribution or ≤ 0.4 W/kg where no more than one SAR distribution is contributing > 0.1 W/kg.

Spatial separation was determined by inspection of the area scan SAR distributions to confirm that at all locations, SAR was < 1.2 W/kg, where at least 90% of the SAR is attributed to a single SAR distribution. See below for illustrations of the spatial separated antennas considered.

11.4.1 Back Side Spatial Separation Analysis

Figure 11-1
Back Side Spatial Separation for Antenna 1 and Antenna 2A



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Figure 11-2
Back Side Spatial Separation for Antenna 1 and Antenna 4A

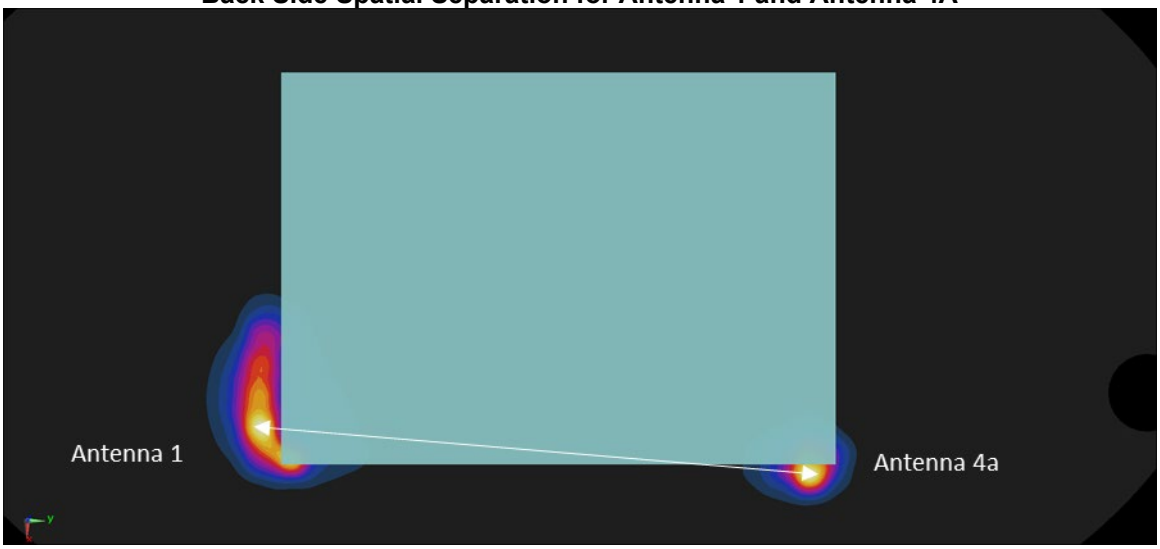
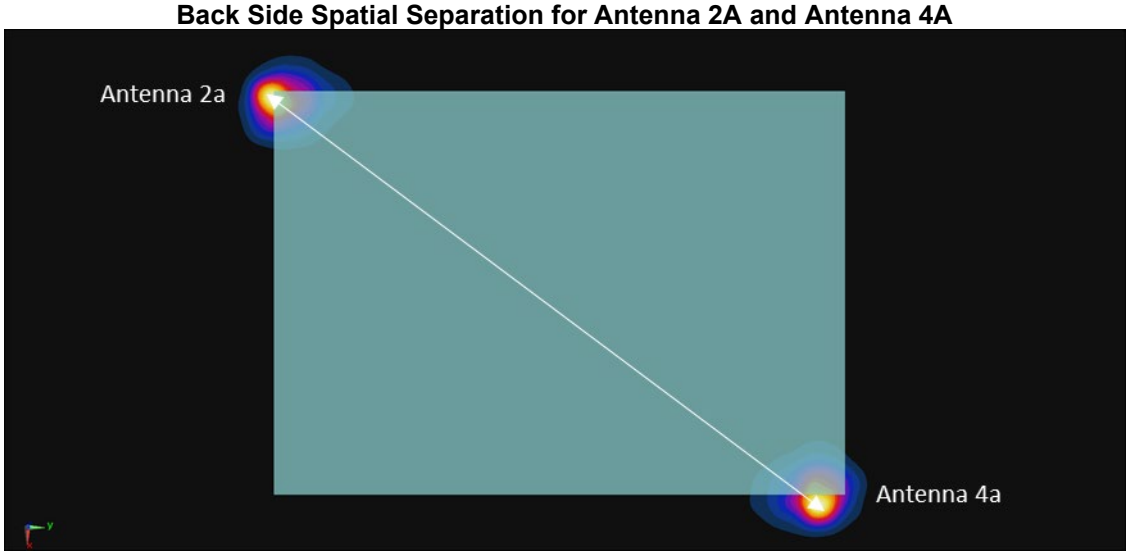


Figure 11-3
Back Side Spatial Separation for Antenna 2A and Antenna 4A



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Figure 11-4
Back Side Spatial Separation for Antenna 2B and Antenna 4A

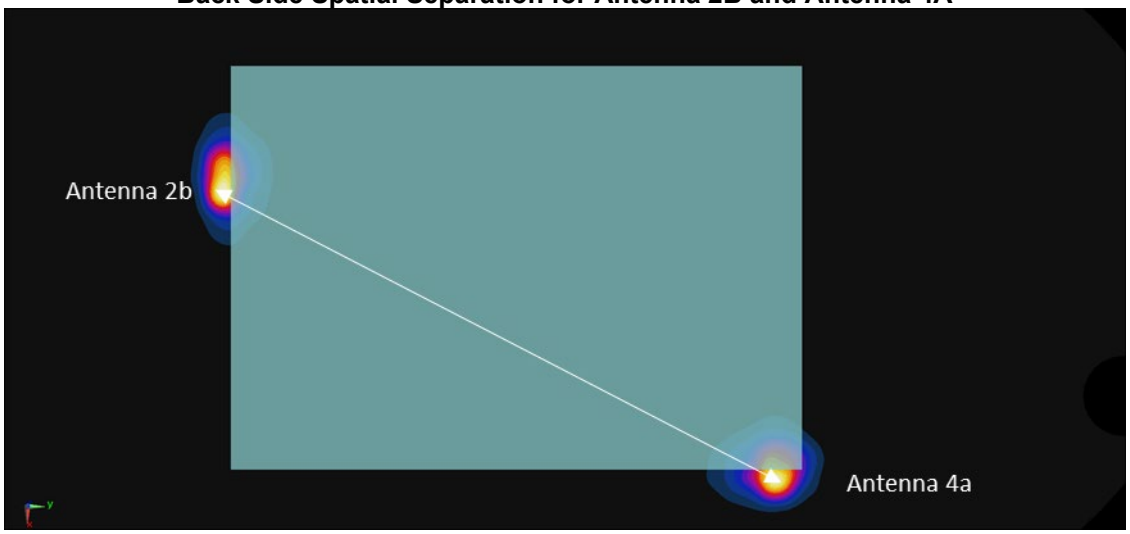
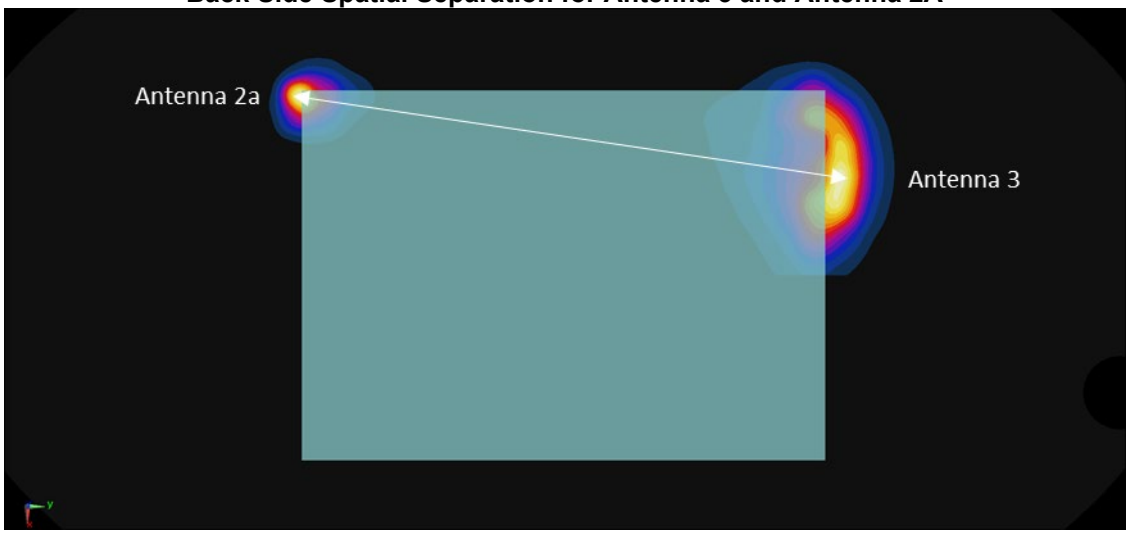


Figure 11-5
Back Side Spatial Separation for Antenna 3 and Antenna 2A



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Figure 11-6
Back Side Spatial Separation for Antenna 3 and Antenna 4A

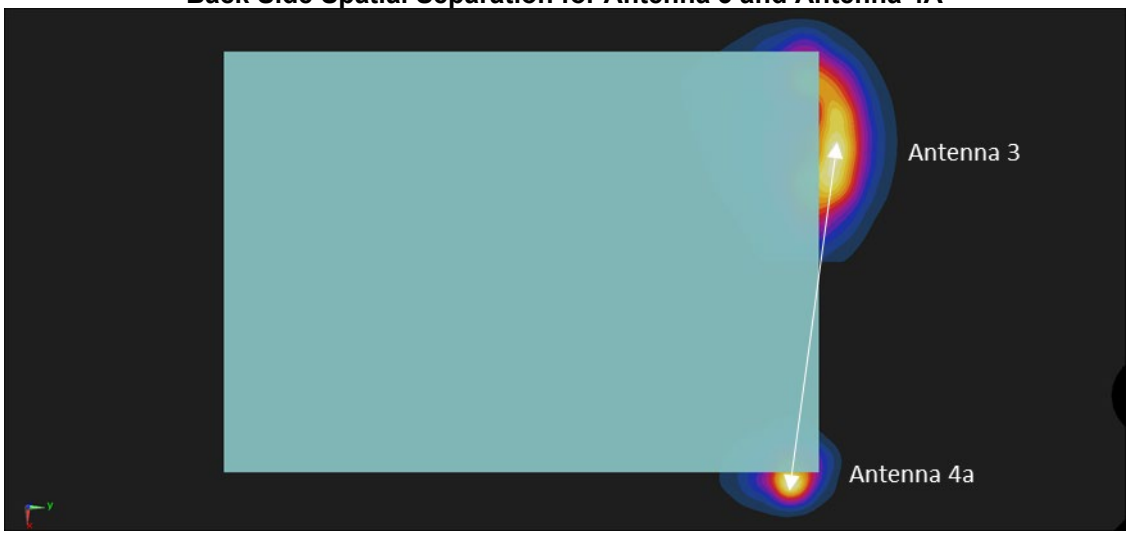
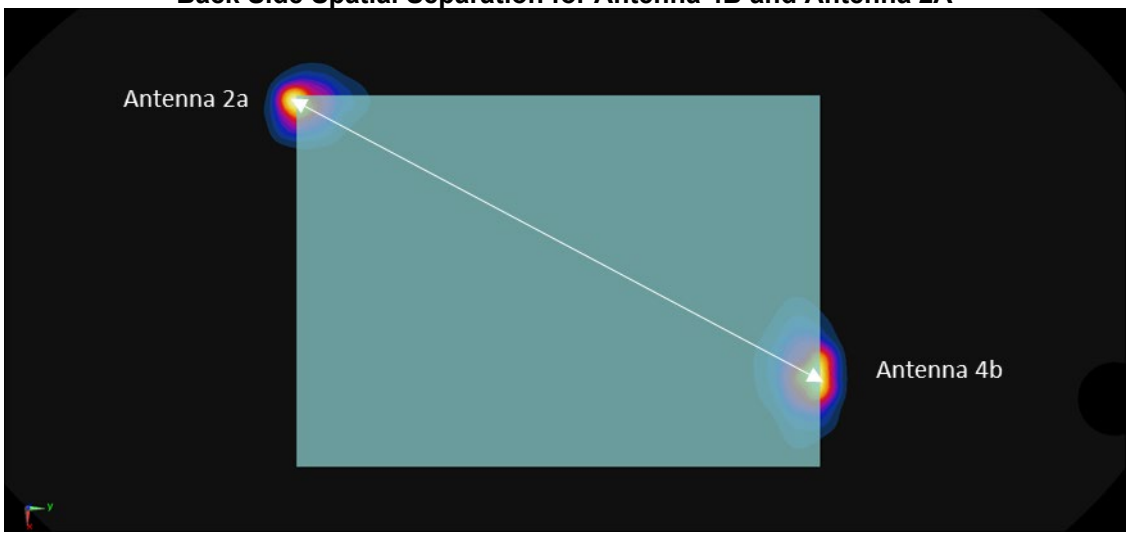


Figure 11-7
Back Side Spatial Separation for Antenna 4B and Antenna 2A



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Figure 11-8
Back Side Spatial Separation for Antenna 1 and Antenna 4B

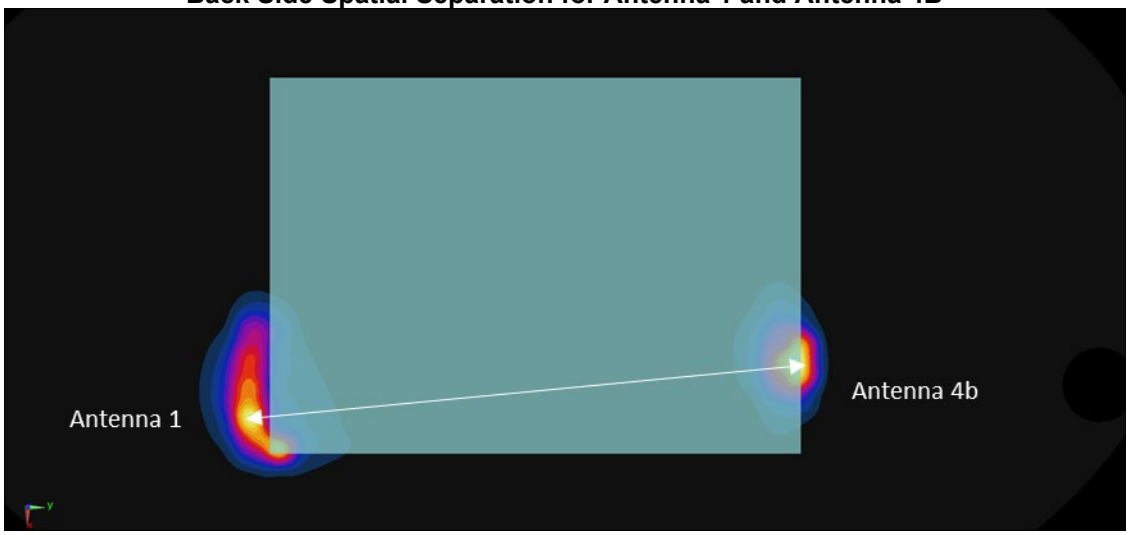
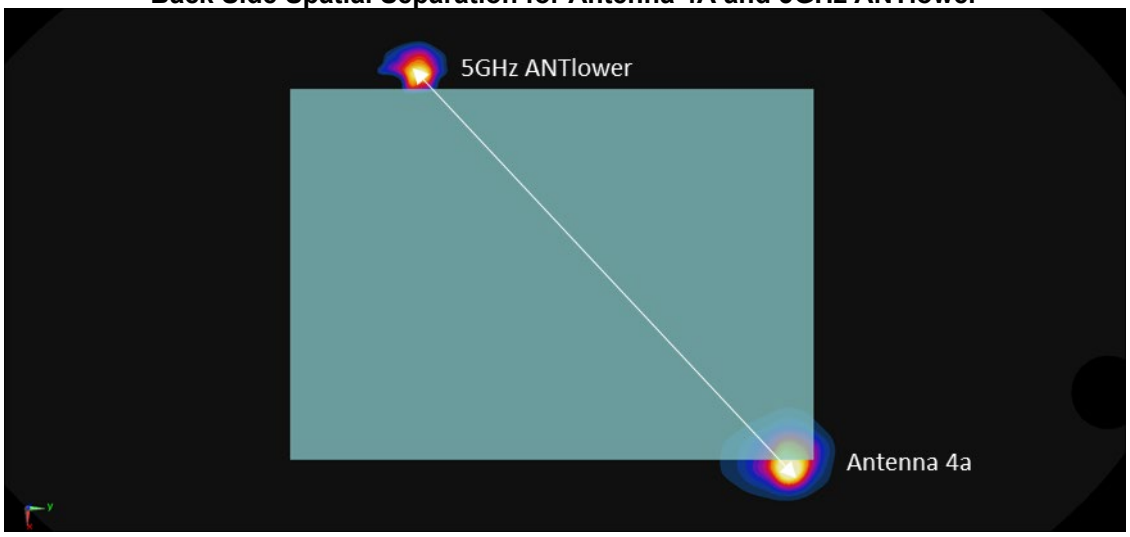


Figure 11-9
Back Side Spatial Separation for Antenna 4A and 5GHz ANTlower



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Figure 11-10
Back Side Spatial Separation for Antenna 4A and 5GHz ANTupper

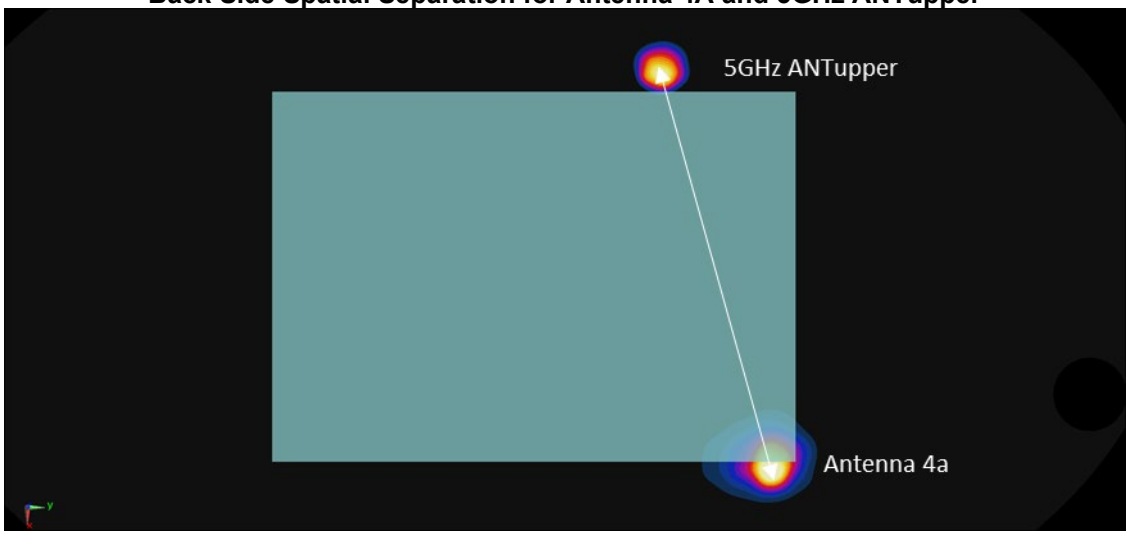
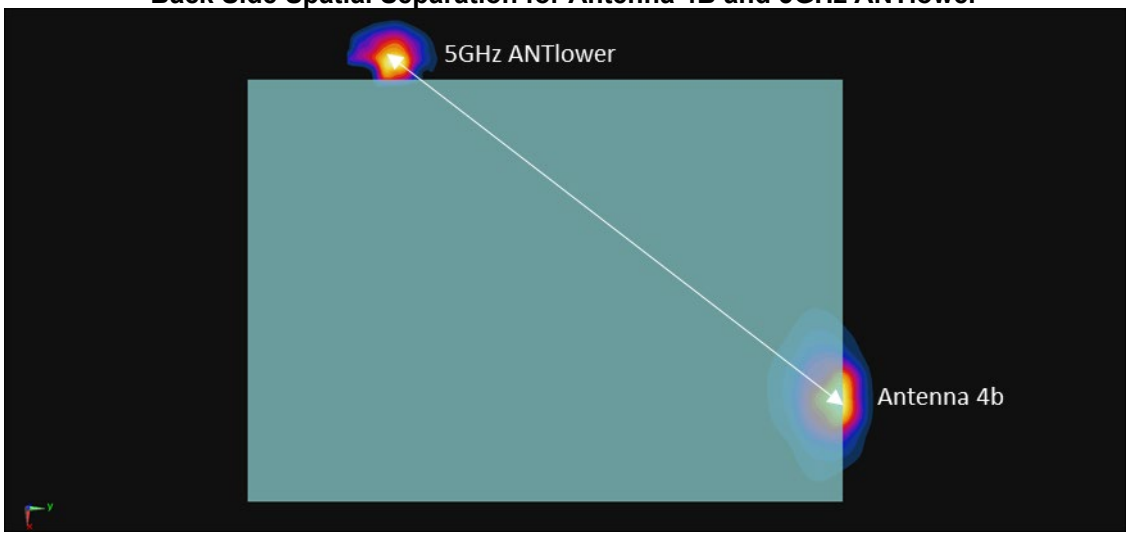


Figure 11-11
Back Side Spatial Separation for Antenna 4B and 5GHz ANTlower



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Figure 11-12
Back Side Spatial Separation for Antenna 4B and 5GHz ANTupper

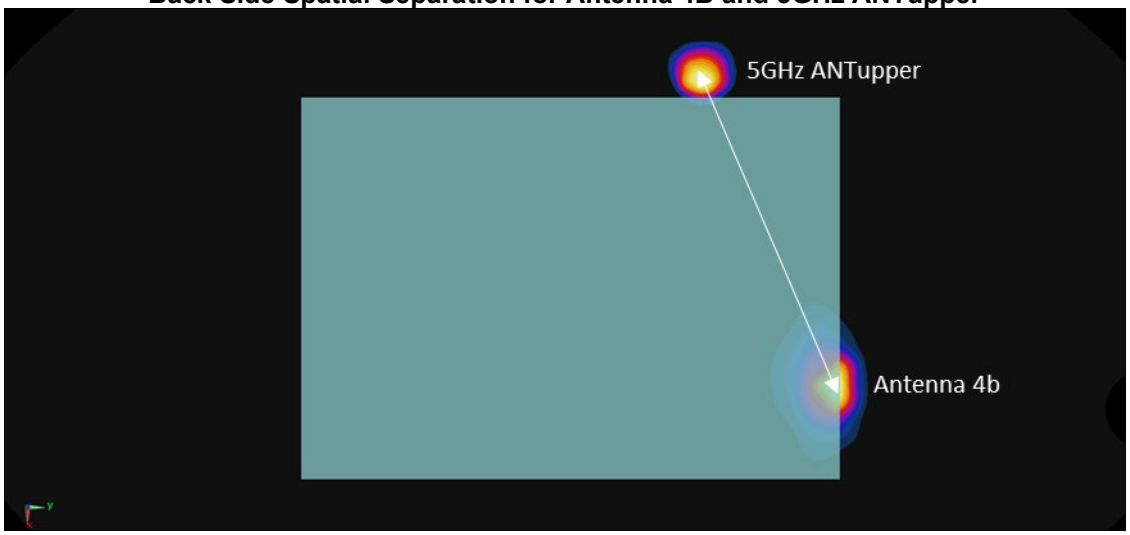
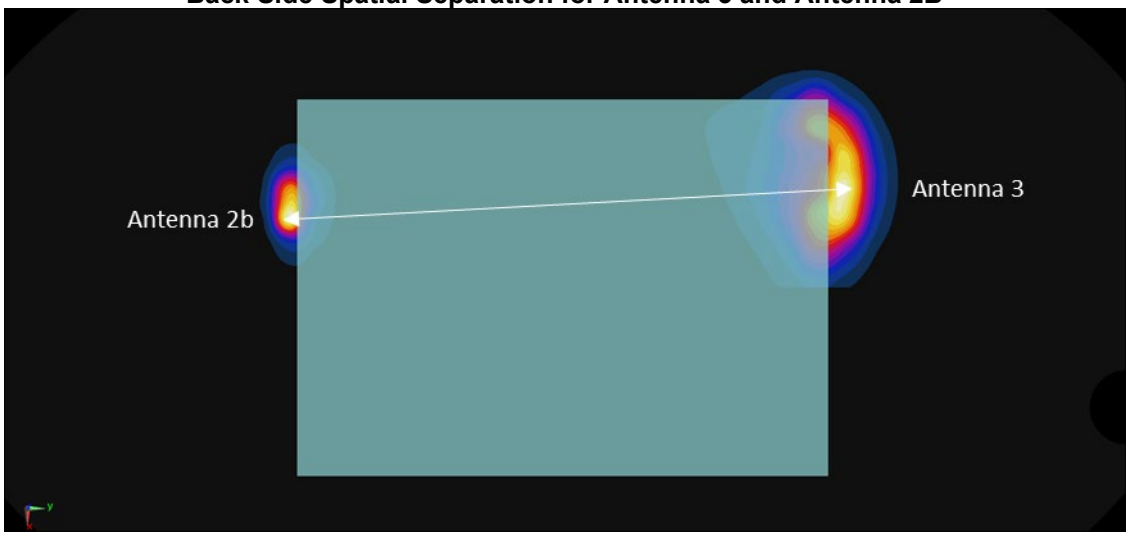


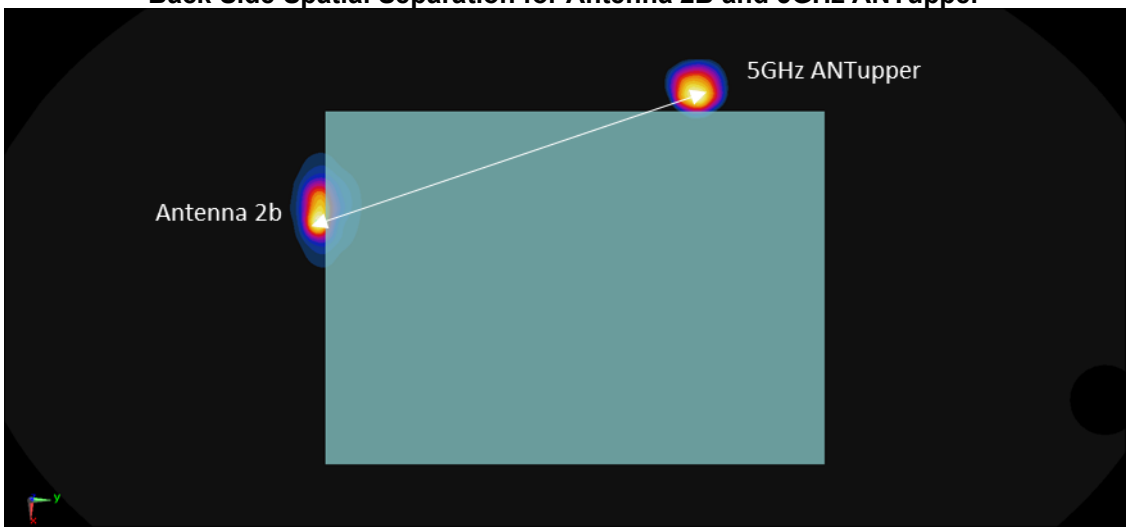
Figure 11-13
Back Side Spatial Separation for Antenna 3 and Antenna 2B



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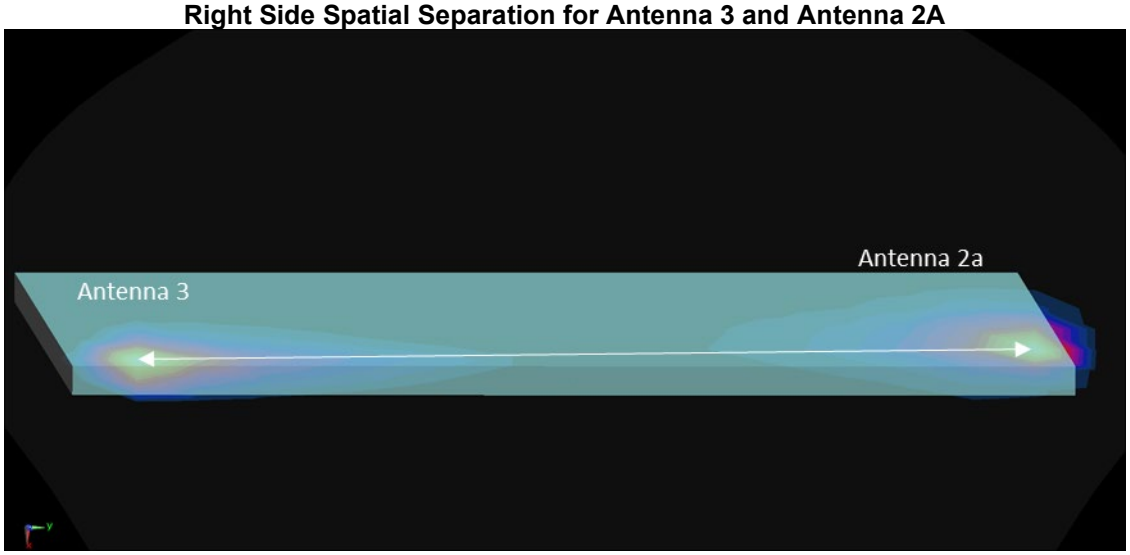
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Figure 11-14
Back Side Spatial Separation for Antenna 2B and 5GHz ANTupper



11.4.2 Right Side Spatial Separation Analysis

Figure 11-15
Right Side Spatial Separation for Antenna 3 and Antenna 2A



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Figure 11-16
Right Side Spatial Separation for 5GHz ANTlower and 5GHz ANTupper

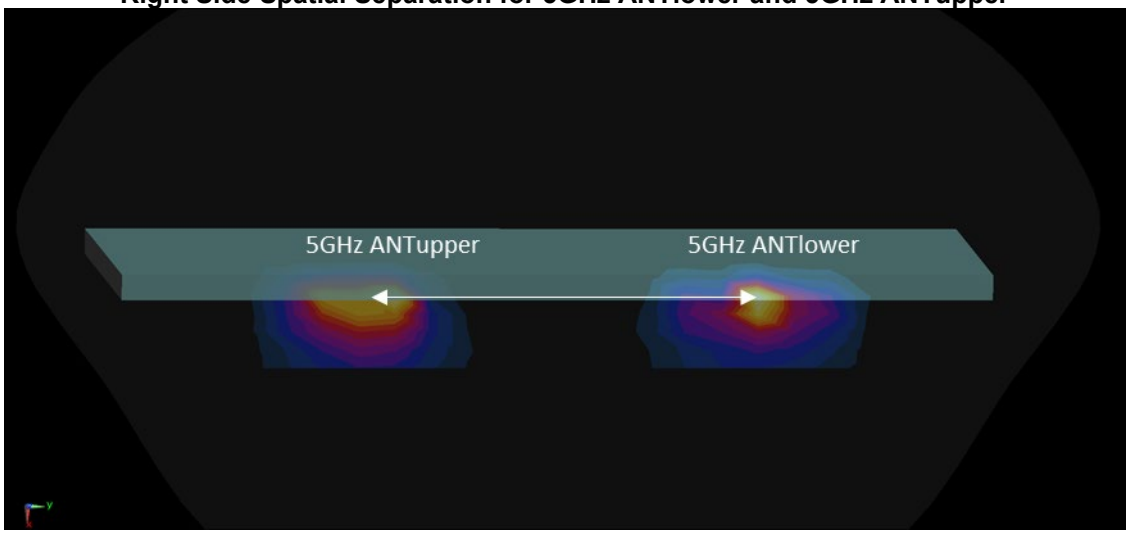
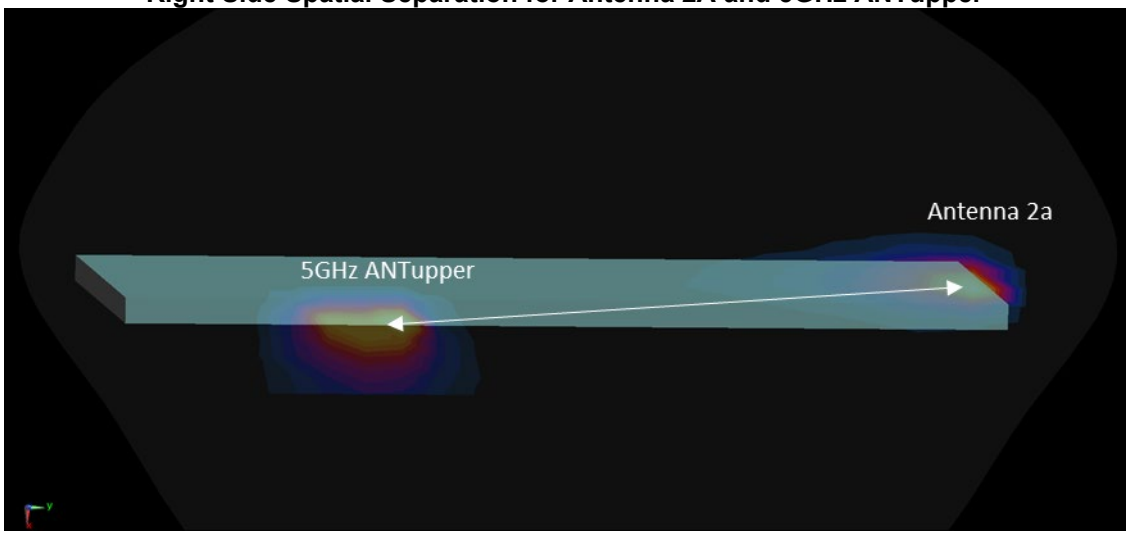


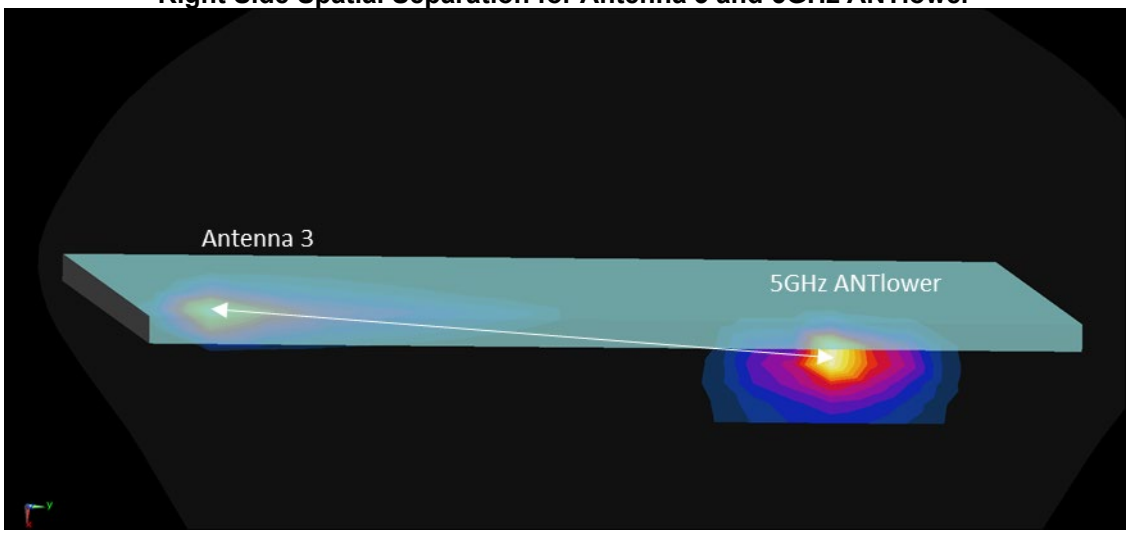
Figure 11-17
Right Side Spatial Separation for Antenna 2A and 5GHz ANTupper



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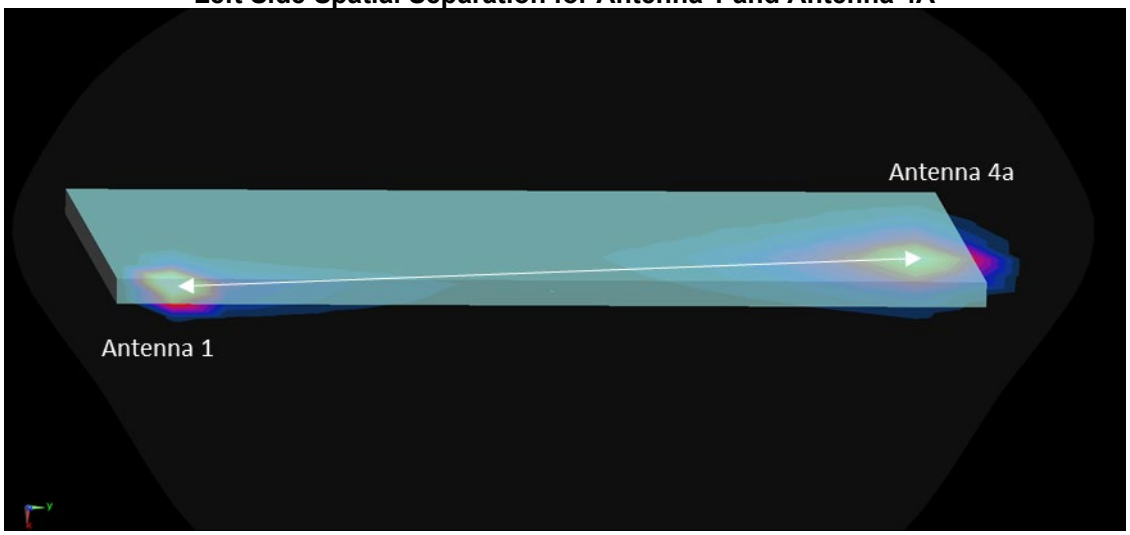
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Figure 11-18
Right Side Spatial Separation for Antenna 3 and 5GHz ANTlower



11.4.3 Left Side Spatial Separation Analysis

Figure 11-19
Left Side Spatial Separation for Antenna 1 and Antenna 4A



11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results and spatial separation analysis 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 D01v06 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 D01v01r04, 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 1g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Antenna	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
750	707.50	23095	LTE Band 12, 10 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Ant 1	N/A	left	0 mm	1.120	1.070	1.05	N/A	N/A	N/A	N/A
835	826.40	4132	UMTS 850	RMC	Ant 1	N/A	left	0 mm	1.160	1.050	1.10	N/A	N/A	N/A	N/A
1750	1732.50	20175	LTE Band 4 (AWS), 20 MHz Bandwidth	QPSK, 100 RB, 0 RB Offset	Ant 2A	N/A	back	0 mm	0.981	0.964	1.02	N/A	N/A	N/A	N/A
1900	1880.00	18900	LTE Band 2 (PCS), 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	Ant 2B	N/A	back	0 mm	1.160	1.140	1.02	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Ant 2B	N/A	back	0 mm	1.030	1.020	1.01	N/A	N/A	N/A	N/A
2450	2510.00	20850	LTE Band 7, 20 MHz Bandwidth	QPSK, 1RB, 0 RB Offset	Ant 4B	N/A	back	0 mm	1.110	1.030	1.08	N/A	N/A	N/A	N/A
2600	2560.00	21350	LTE Band 7, 20 MHz Bandwidth	QPSK, 1RB, 99 RB Offset	Ant 2B	N/A	back	0 mm	1.100	1.030	1.07	N/A	N/A	N/A	N/A
3500	3560.00	55340	LTE Band 48, 20 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Ant 3	N/A	right	0 mm	1.070	1.040	1.03	N/A	N/A	N/A	N/A
3700	3646.70	56207	LTE Band 48, 20 MHz Bandwidth	QPSK, 1RB, 0 RB Offset	Ant 4B	N/A	back	0 mm	1.040	1.040	0.00	N/A	N/A	N/A	N/A
5250	5270.00	54	802.11n, 40 MHz Bandwidth	OFDM	5GHz ANTupper	13.5	right	0 mm	0.889	0.880	1.01	N/A	N/A	N/A	N/A
5600	5610.00	122	802.11ac, 80 MHz Bandwidth	OFDM	5GHz ANTlower	29.3	right	0 mm	0.896	0.886	1.01	N/A	N/A	N/A	N/A
5750	5775.00	155	802.11ac, 80 MHz Bandwidth	OFDM	5GHz ANTupper	29.3	right	0 mm	0.937	0.921	1.02	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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13 ADDITIONAL TESTING PER FCC GUIDANCE

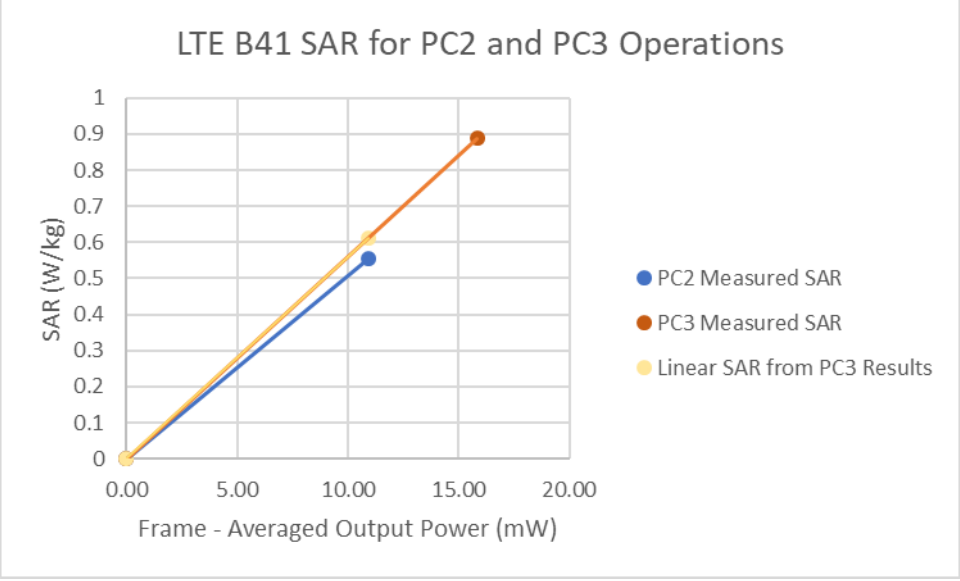
13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. When ULCA is active, the linearity between the Power Class 2 with ULCA active and Power Class 3 with ULCA active SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

LTE Band 41 SAR testing with power class 2 at the highest power and available duty factor was additionally performed for the power class 3 configuration with the highest SAR for each exposure condition.

Table 13-1
LTE Band 41 Body Linearity Data – Ant 2a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.7	14.7
Measured Output Power (dBm)	13.98	14.01
Measured SAR (W/kg)	0.887	0.554
Measured Power (mW)	25.00	25.18
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	15.83	10.90
% deviation from expected linearity		-9.32%

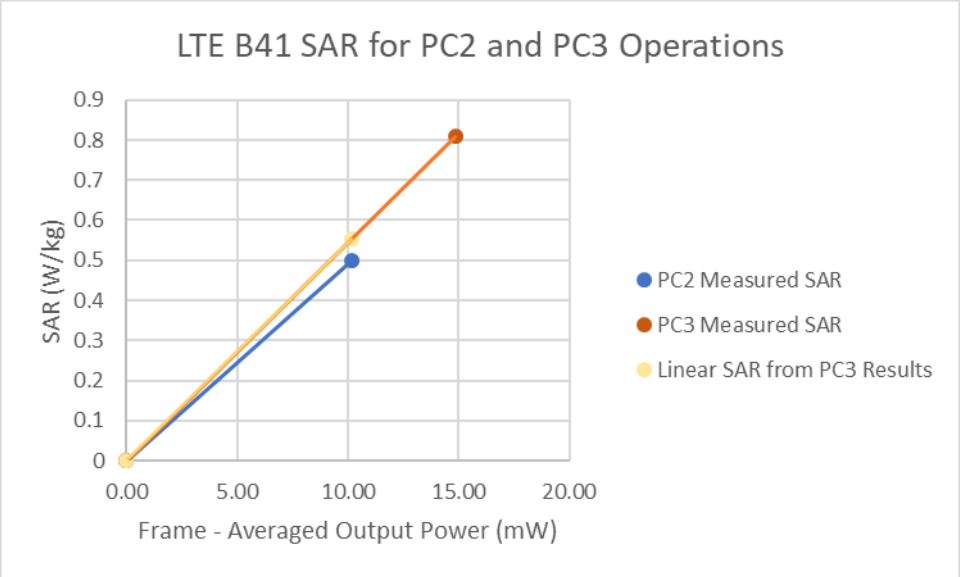


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Table 13-2
LTE Band 41 ULCA Body Linearity Data – Ant 2a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.7	14.7
Measured Output Power (dBm)	13.7	13.7
Measured SAR (W/kg)	0.808	0.499
Measured Power (mW)	23.44	23.44
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.84	10.15
% deviation from expected linearity		-9.72%

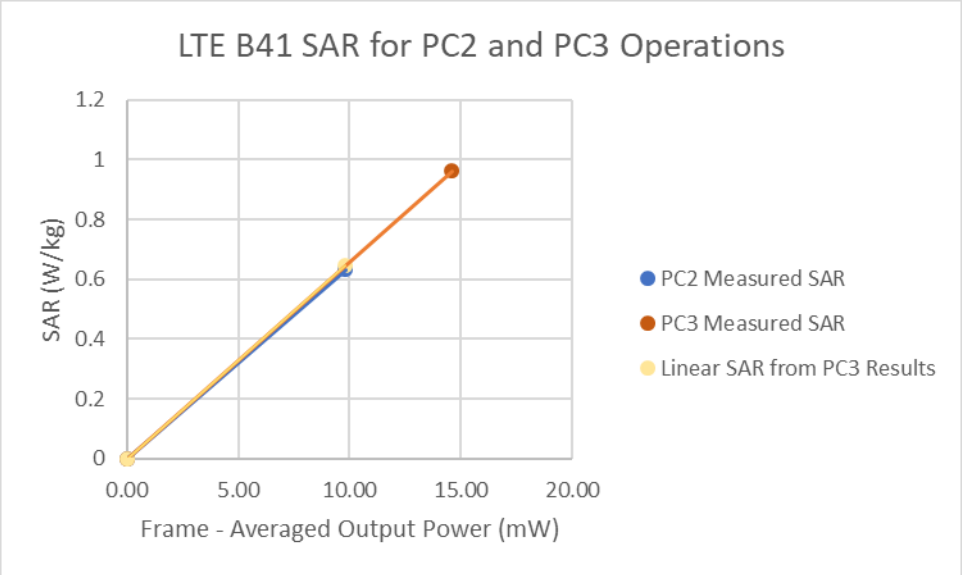


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Table 13-3
LTE Band 41 Body Linearity Data – Ant 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.63	13.55
Measured SAR (W/kg)	0.962	0.633
Measured Power (mW)	23.07	22.65
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.60	9.81
% deviation from expected linearity		-2.02%

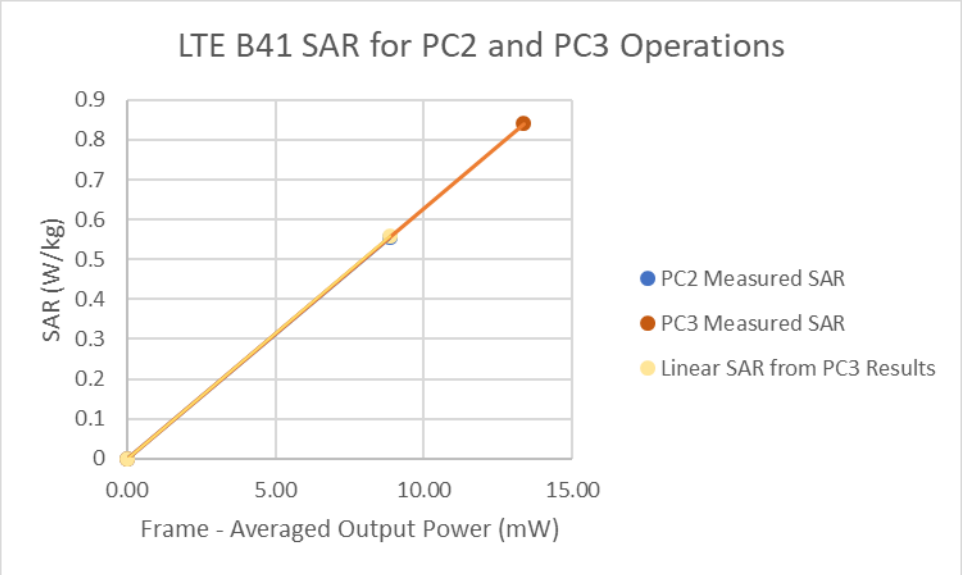


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Table 13-4
LTE Band 41 ULCA Body Linearity Data – Ant 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.25	13.11
Measured SAR (W/kg)	0.841	0.555
Measured Power (mW)	21.13	20.46
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.38	8.86
% deviation from expected linearity		-0.36%

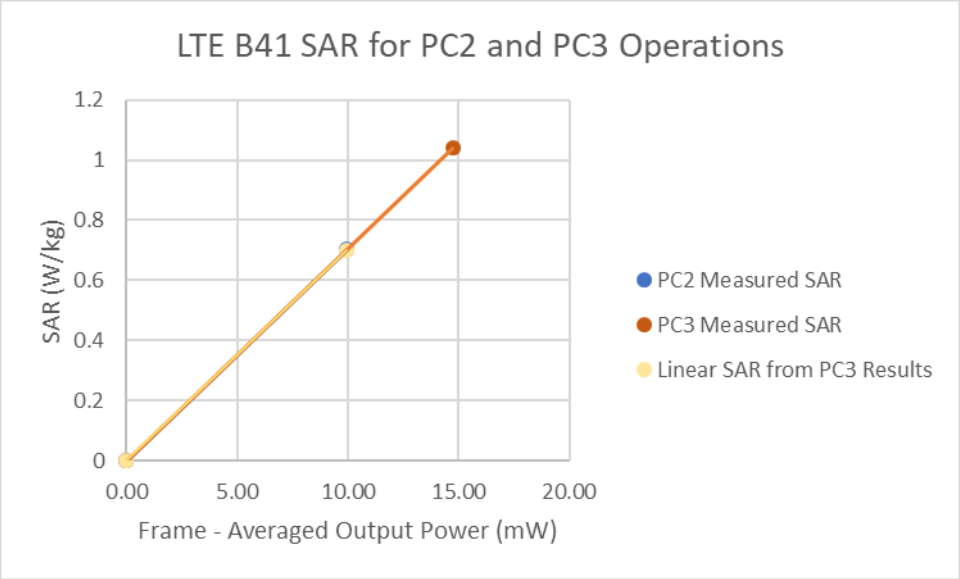


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Table 13-5
LTE Band 41 Body Linearity Data – Ant 4a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.67	13.61
Measured SAR (W/kg)	1.04	0.702
Measured Power (mW)	23.28	22.96
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.74	9.94
% deviation from expected linearity		0.05%

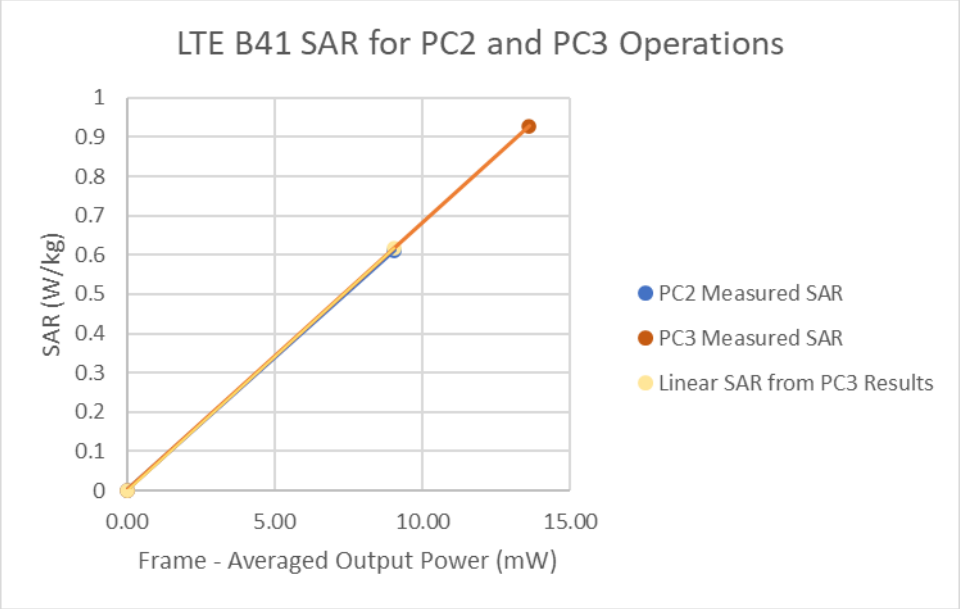


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Table 13-6
LTE Band 41 ULCA Body Linearity Data – Ant 4a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.33	13.2
Measured SAR (W/kg)	0.929	0.612
Measured Power (mW)	21.53	20.89
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.63	9.05
% deviation from expected linearity		-0.77%

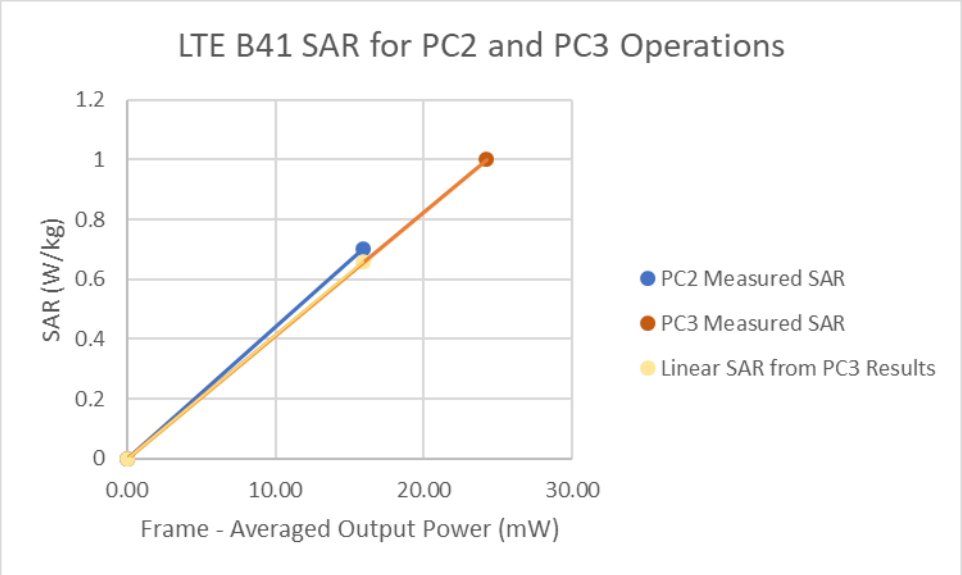


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Table 13-7
LTE Band 41 Body Linearity Data – Ant 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.9	15.9
Measured Output Power (dBm)	15.83	15.66
Measured SAR (W/kg)	1	0.702
Measured Power (mW)	38.28	36.81
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	24.23	15.94
% deviation from expected linearity		6.72%

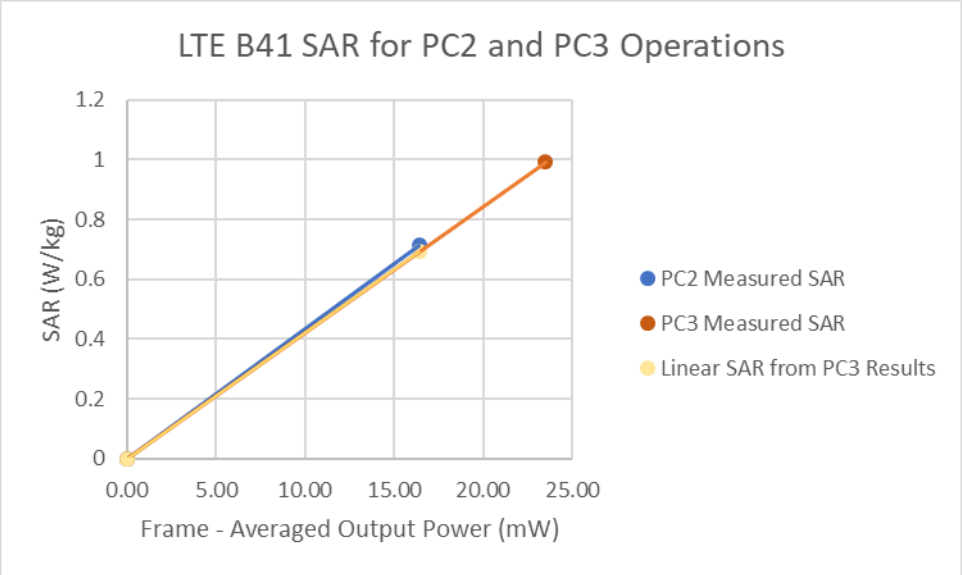


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Table 13-8
LTE Band 41 ULCA Body Linearity Data – Ant 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.9	15.9
Measured Output Power (dBm)	15.7	15.79
Measured SAR (W/kg)	0.993	0.714
Measured Power (mW)	37.15	37.93
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	23.52	16.42
% deviation from expected linearity		2.96%



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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4438C	ESG Vector Signal Generator	6/27/2019	Annual	6/27/2020	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	9/11/2019	Annual	9/11/2020	MY45093678
Agilent	E5515C	Wireless Communications Test Set	2/28/2018	Biennial	2/28/2020	GB41450275
Agilent	E5515C	Wireless Communications Test Set	5/22/2018	Biennial	5/22/2020	GB43193563
Agilent	N5182A	MXG Vector Signal Generator	6/27/2019	Annual	6/27/2020	US46240505
Agilent	N5182A	MXG Vector Signal Generator	8/19/2019	Annual	8/19/2020	MY47420837
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	MA24106A	USB Power Sensor	8/5/2019	Annual	8/5/2020	1827527
Anritsu	MA24106A	USB Power Sensor	6/21/2019	Annual	6/21/2020	1244515
Anritsu	MA24106A	USB Power Sensor	7/8/2019	Annual	7/8/2020	1248508
Anritsu	MA24106A	USB Power Sensor	8/5/2019	Annual	8/5/2020	1827528
Anritsu	MA24106A	USB Power Sensor	8/27/2019	Annual	8/27/2020	1827533
Anritsu	MA2411B	Pulse Power Sensor	12/4/2019	Annual	12/4/2020	1126066
Anritsu	ML2496A	Power Meter	11/6/2019	Annual	11/6/2020	1405003
Anritsu	ML2496A	Power Meter	12/17/2019	Annual	12/17/2020	1138001
Anritsu	MT8820C	Radio Communication Analyzer	7/25/2019	Annual	7/25/2020	6201240328
Anritsu	MT8821C	Radio Communication Analyzer	8/16/2019	Annual	8/16/2020	6201144418
Anritsu	MT8821C	Radio Communication Analyzer	3/18/2019	Annual	3/18/2020	6201144419
Control Company	4040	Temperature / Humidity Monitor	2/28/2018	Biennial	2/28/2020	150761911
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/28/2018	Biennial	2/28/2020	170151872
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/28/2018	Biennial	2/28/2020	170151893
Control Company	4352	Ultra Long Stem Thermometer	2/28/2018	Biennial	2/28/2020	170330160
Control Company	4352	Ultra Long Stem Thermometer	2/28/2018	Biennial	2/28/2020	170330158
Control Company	4352	Ultra Long Stem Thermometer	8/2/2018	Biennial	8/2/2020	181292054
Control Company	1235C55	Digital Caliper	3/20/2018	Biennial	3/20/2020	140448586
MCL	BW-N3W5+	3dB Attenuator	CBT	N/A	CBT	1812
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1311
MCL	BW-N10W5+	10dB Attenuator	CBT	N/A	CBT	1611
Mini-Circuits	NLP-1000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	5/23/2018	Biennial	5/23/2020	N/A
Seekonk	NC-100	Torque Wrench	5/9/2018	Biennial	5/9/2020	22217
Rohde & Schwarz	CMW500	Radio Communication Tester	6/24/2019	Annual	6/24/2020	101699
Rohde & Schwarz	CMW500	Radio Communication Tester	8/20/2019	Annual	8/20/2020	106578
Rohde & Schwarz	CMW500	Radio Communication Tester	6/26/2019	Annual	6/26/2020	108843
Rohde & Schwarz	CMW500	Radio Communication Tester	4/15/2019	Annual	4/15/2020	167283
Rohde & Schwarz	CMW500	Radio Communication Tester	4/15/2019	Annual	4/15/2020	167284
Rohde & Schwarz	CMW500	Radio Communication Tester	4/17/2019	Annual	4/17/2020	167285
Rohde& Schwarz	CMW500	Wideband Radio Communication Tester	8/8/2019	Annual	8/8/2020	145663
SPEAG	D750V3	750 MHz SAR Dipole	9/8/2017	Triennial	9/8/2020	1097
SPEAG	D835V2	835 MHz SAR Dipole	6/20/2019	Annual	6/20/2020	4d040
SPEAG	D1750V2	1750 MHz SAR Dipole	6/19/2019	Annual	6/19/2020	1083
SPEAG	D1900V2	1900 MHz SAR Dipole	5/14/2018	Biennial	5/14/2020	5d026
SPEAG	D2300V2	2300 MHz SAR Dipole	3/7/2018	Biennial	3/7/2020	1038
SPEAG	D2450V2	2450 MHz SAR Dipole	11/12/2018	Biennial	11/12/2020	921
SPEAG	D2600V2	2600 MHz SAR Dipole	9/11/2017	Triennial	9/11/2020	1069
SPEAG	D3500V2	3500 MHz SAR Dipole	12/4/2019	Annual	12/4/2020	1068
SPEAG	D3700V2	3700 MHz SAR Dipole	12/4/2019	Annual	12/4/2020	1029
SPEAG	D5GHzV2	5 GHz SAR Dipole	3/13/2018	Biennial	3/13/2020	1123
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/12/2019	Annual	8/12/2020	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/13/2019	Annual	2/13/2020	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/10/2019	Annual	7/10/2020	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/15/2019	Annual	1/15/2020	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/13/2019	Annual	11/13/2020	1213
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/14/2019	Annual	6/14/2020	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/17/2019	Annual	4/17/2020	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/13/2019	Annual	3/13/2020	604
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/7/2019	Annual	5/7/2020	1070
SPEAG	DAKS-3.5	Portable DAK	9/10/2019	Annual	9/10/2020	1045
SPEAG	EX3DV4	SAR Probe	8/29/2019	Annual	8/29/2020	3949
SPEAG	EX3DV4	SAR Probe	6/19/2019	Annual	6/19/2020	7416
SPEAG	EX3DV4	SAR Probe	11/21/2019	Annual	11/21/2020	7420
SPEAG	EX3DV4	SAR Probe	1/28/2019	Annual	1/28/2020	3837
SPEAG	EX3DV4	SAR Probe	7/16/2019	Annual	7/16/2020	7491
SPEAG	EX3DV4	SAR Probe	2/19/2019	Annual	2/19/2020	7427
SPEAG	EX3DV4	SAR Probe	3/18/2019	Annual	3/18/2020	7421
SPEAG	EX3DV4	SAR Probe	4/12/2019	Annual	4/12/2020	7532

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

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15 MEASUREMENT UNCERTAINTIES

a	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	**Tol. (± %)**	**Prob. Dist.**	**Div.**	**c_i 1gm**	**c_i 10 gms**	**1gm u_i (± %)**	**10gms u_i (± %)**	**v_i**
Measurement System								
Probe Calibration	6.55	N	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	∞
Linearity	0.3	N	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	∞
Readout Electronics	0.3	N	1	1.0	1.0	0.3	0.3	∞
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	∞
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	2.7	N	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	N	1	1.0	1.0	1.7	1.7	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	∞
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	∞
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	4.2	N	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	N	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)		RSS				11.5	11.3	60
Expanded Uncertainty (95% CONFIDENCE LEVEL)		k=2				23.0	22.6	

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16 CONCLUSION

16.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development 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

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DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR02WP7GX

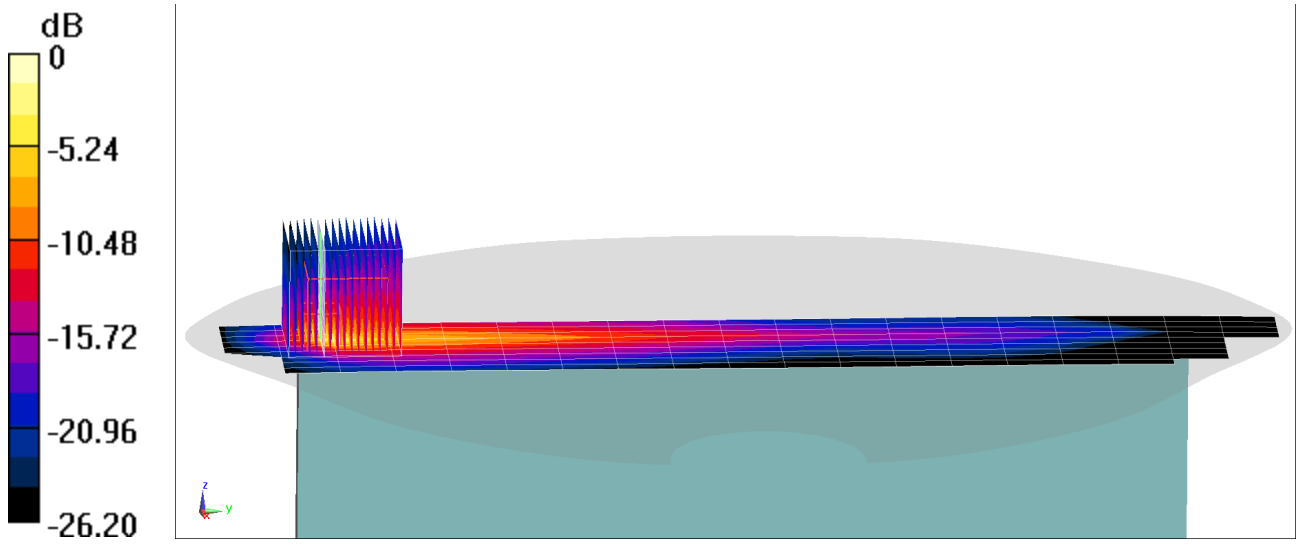
Communication System: UID 0, _GSM GPRS; 2 Tx slots; Frequency: 824.2 MHz; Duty Cycle: 1:4.15
Medium: 835 MHz Body Medium parameters used (interpolated):
f = 824.2 MHz; σ = 0.996 S/m; ε_r = 56.233; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-09-2020; Ambient Temp: 22.0°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7416; ConvF(9.71, 9.71, 9.71) @ 824.2 MHz; Calibrated: 6/19/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/14/2019
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: GPRS 850 Antenna 1, Body SAR, Left Edge, Low.ch, 2 Tx Slots

Area Scan (10x20x1): Measurement grid: dx=5mm, dy=15mm
Zoom Scan (17x17x8)/Cube 0: Measurement grid: dx=1.9mm, dy=1.9mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 26.21 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 23.4 W/kg
SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.310 W/kg



0 dB = 4.36 W/kg = 6.39 dBW/kg

PCTEST

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR00TP7GX

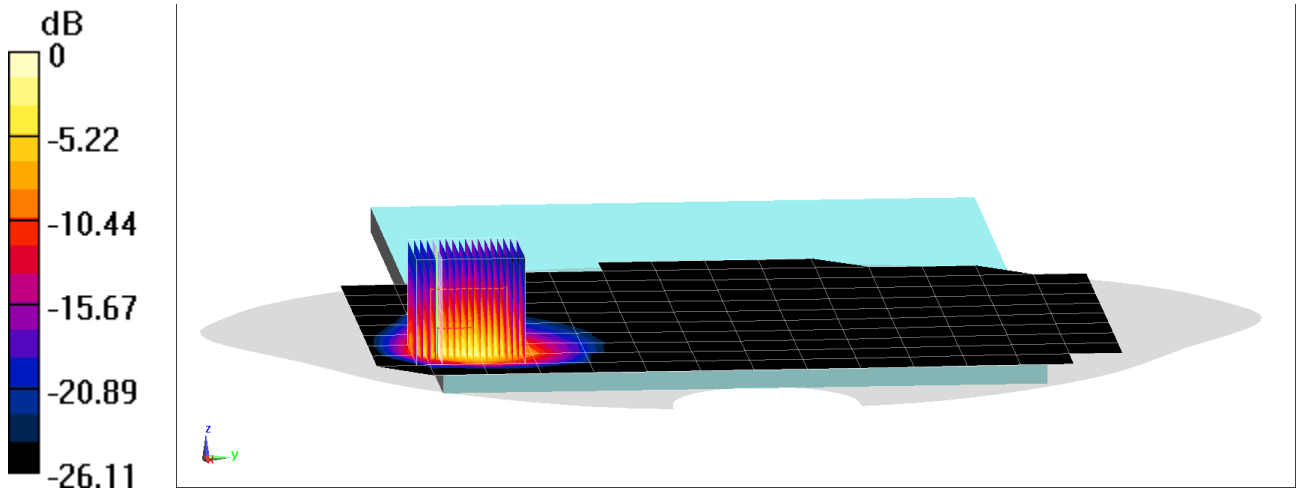
Communication System: UID 0, GSM GPRS; 2 Tx slots; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15
Medium: 1900 MHz Body Medium parameters used:
f = 1910 MHz; σ = 1.561 S/m; ε_r = 52.341; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-15-2020; Ambient Temp: 21.5°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7421; ConvF(7.6, 7.6, 7.6) @ 1909.8 MHz; Calibrated: 3/18/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: GPRS 1900 Antenna 4A, Body SAR, Back side, High.ch, 2 Tx Slots

Area Scan (12x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (18x18x8)/Cube 0: Measurement grid: dx=1.8mm, dy=1.8mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 25.40 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 6.22 W/kg
SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.493 W/kg



0 dB = 2.51 W/kg = 4.00 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR00TP7GX

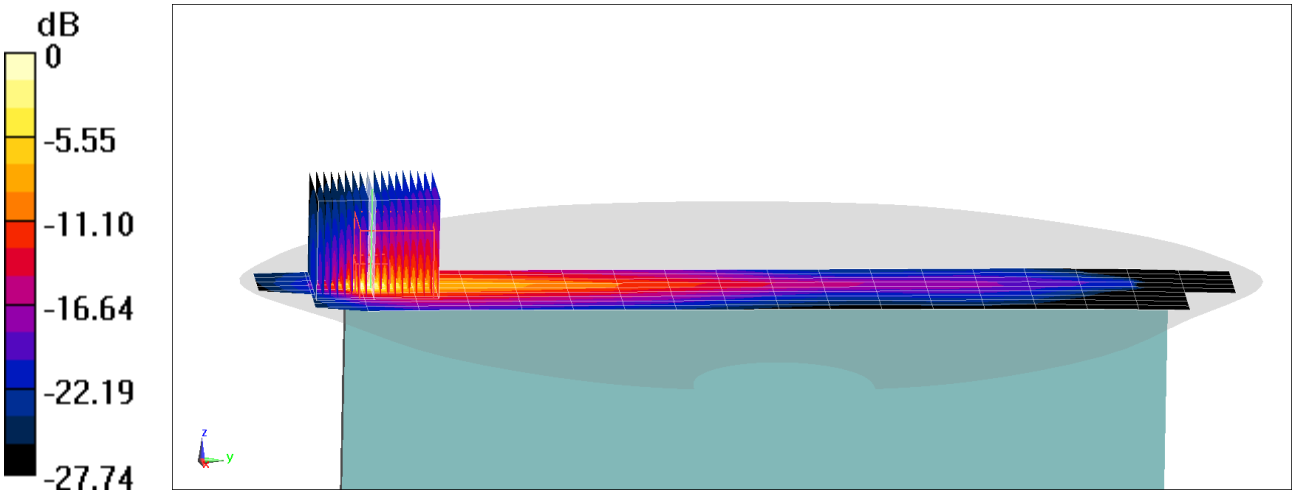
Communication System: UID 0, _UMTS; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: 835 MHz Body Medium parameters used (interpolated):
f = 826.4 MHz; σ = 0.965 S/m; ε_r = 54.788; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 12-30-2019; Ambient Temp: 20.0°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7416; ConvF(9.71, 9.71, 9.71) @ 826.4 MHz; Calibrated: 6/19/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/14/2019
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: UMTS 850 Antenna 1, Body SAR, Left Edge, Low.ch

Area Scan (10x20x1): Measurement grid: dx=5mm, dy=15mm
Zoom Scan (17x18x8)/Cube 0: Measurement grid: dx=2.1mm, dy=2.1mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 27.36 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 27.0 W/kg
SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.327 W/kg



0 dB = 4.72 W/kg = 6.74 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR009P7GX

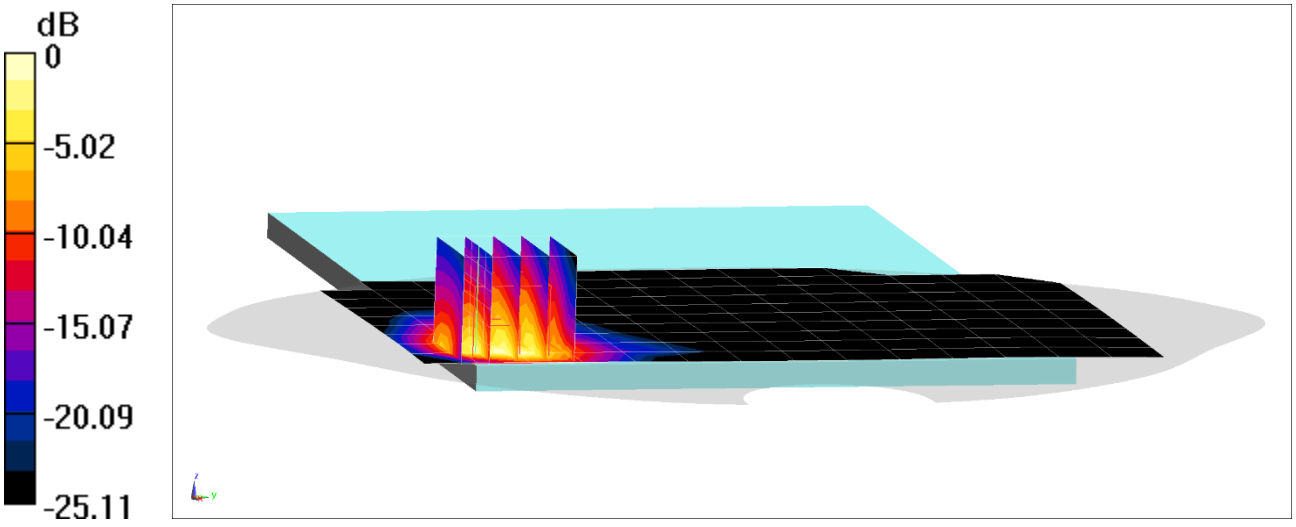
Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium: 1750 MHz Body Medium parameters used (interpolated):
f = 1732.4 MHz; σ = 1.468 S/m; ε_r = 52.368; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-21-2020; Ambient Temp: 23.8°C; Tissue Temp: 18.4°C

Probe: EX3DV4 - SN7427; ConvF(8.14, 8.14, 8.14) @ 1732.4 MHz; Calibrated: 2/19/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1403; Calibrated: 2/13/2019
Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: UMTS 1750 Antenna 4A, Body SAR, Back side, Mid.ch

Area Scan (11x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.84 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.71 W/kg
SAR(1 g) = 0.964 W/kg; SAR(10 g) = 0.455 W/kg



0 dB = 1.91 W/kg = 2.81 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR00TP7GX

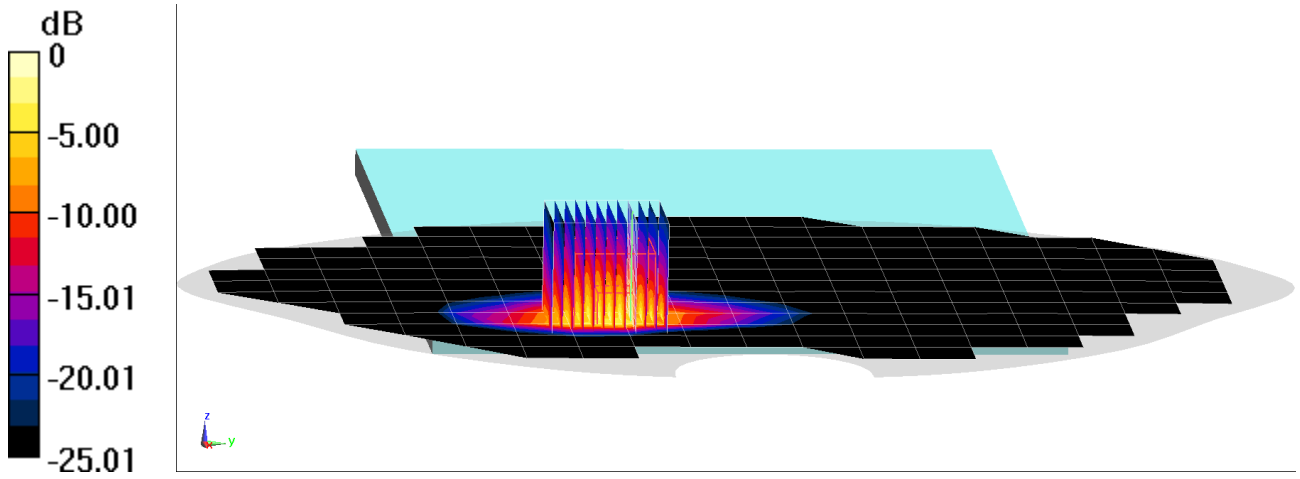
Communication System: UID 0, UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: 1900 MHz Body Medium parameters used:
f = 1880 MHz; σ = 1.536 S/m; ε_r = 51.693; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-07-2020; Ambient Temp: 21.7°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7491; ConvF(8.04, 8.04, 8.04) @ 1880 MHz; Calibrated: 7/16/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1402; Calibrated: 7/10/2019
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: UMTS 1900 Antenna 2B, Body SAR, Back side, Mid.ch

Area Scan (15x19x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (12x12x8)/Cube 0: Measurement grid: dx=2.8mm, dy=2.8mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 27.88 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 6.35 W/kg
SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.437 W/kg



0 dB = 2.57 W/kg = 4.10 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR00GP7GX

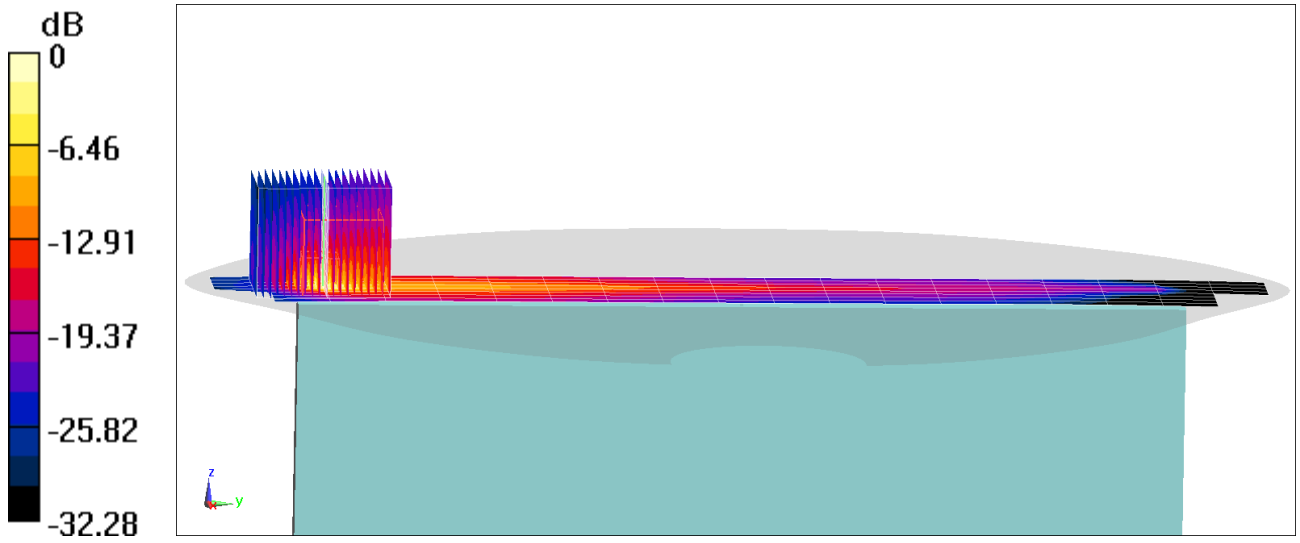
Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1
Medium: 750 MHz Body Medium parameters used (interpolated):
f = 680.5 MHz; σ = 0.913 S/m; ε_r = 55.751; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-05-2020; Ambient Temp: 20.0°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7421; ConvF(9.66, 9.66, 9.66) @ 680.5 MHz; Calibrated: 3/18/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 71 Antenna 1, Body SAR, Left Edge, Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset

Area Scan (9x20x1): Measurement grid: dx=5mm, dy=15mm
Zoom Scan (17x20x8)/Cube 0: Measurement grid: dx=1.9mm, dy=1.9mm, dz=1.4mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 26.5 W/kg
Reference Value = 31.53 V/m; Power Drift = -0.03 dB
SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.246 W/kg



0 dB = 4.37 W/kg = 6.40 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR009P7GX

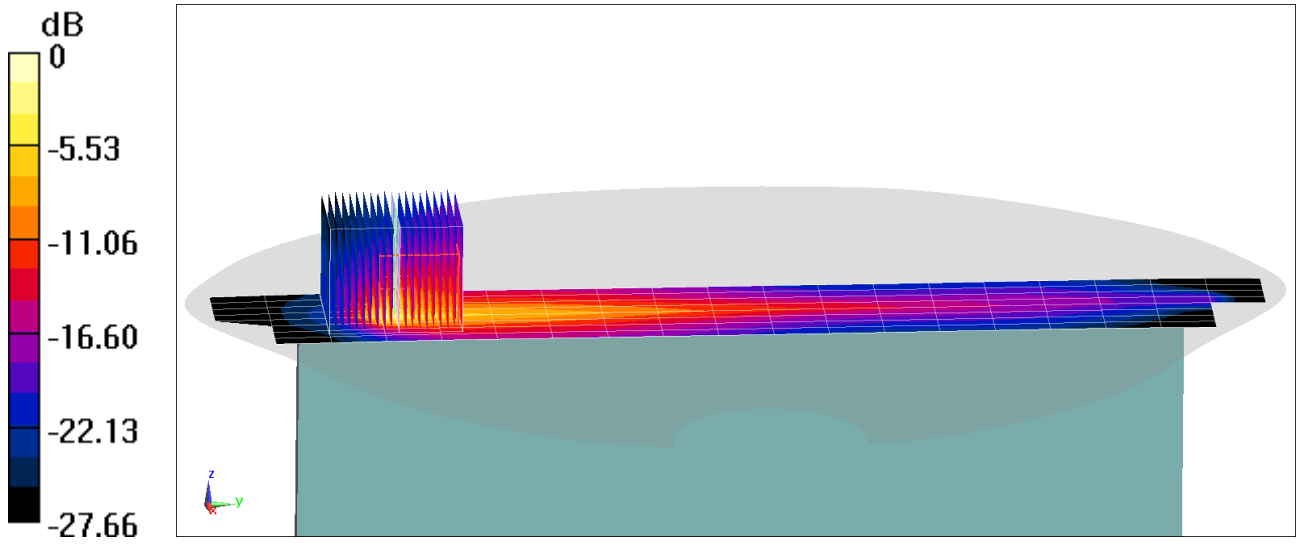
Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium: 750 MHz Body Medium parameters used (interpolated):
f = 707.5 MHz; σ = 0.926 S/m; ε_r = 55.462; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-05-2020; Ambient Temp: 20.0°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7421; ConvF(9.66, 9.66, 9.66) @ 707.5 MHz; Calibrated: 3/18/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 12 Antenna 1, Body SAR, Left Edge, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

Area Scan (9x20x1): Measurement grid: dx=5mm, dy=15mm
Zoom Scan (17x20x8)/Cube 0: Measurement grid: dx=1.9mm, dy=1.9mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 29.28 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 22.9 W/kg
SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.310 W/kg



0 dB = 4.29 W/kg = 6.32 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZG001P7GP

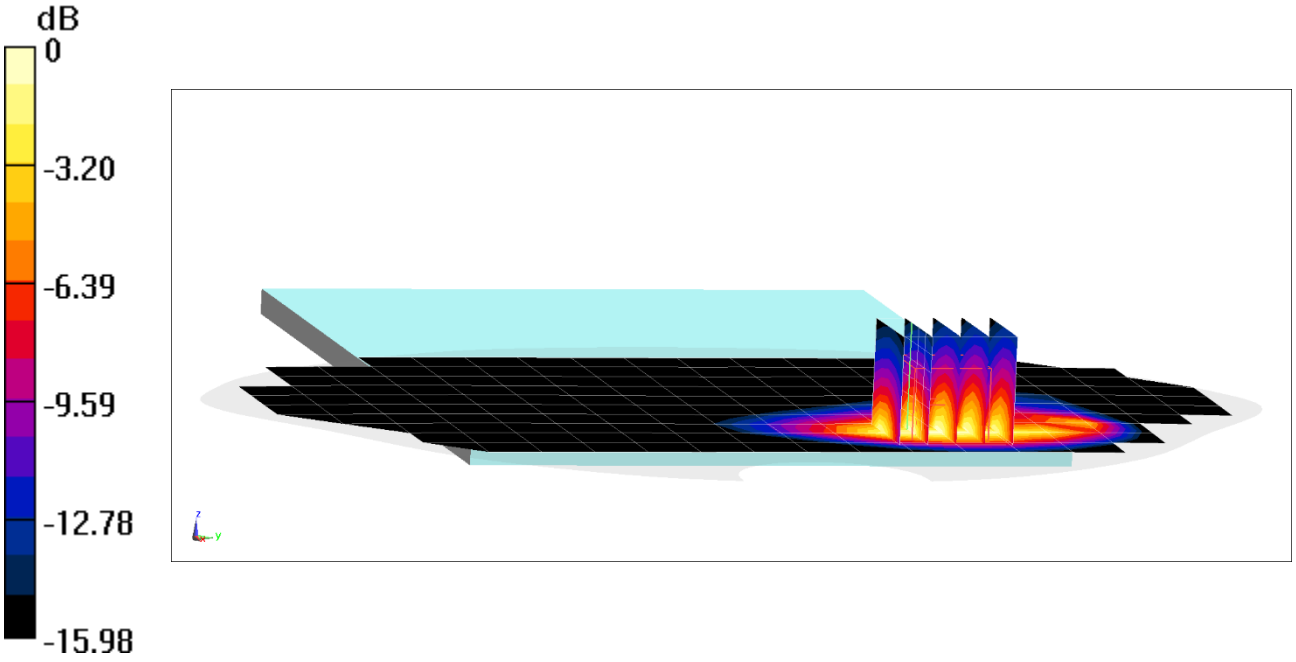
Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1
Medium: 750 MHz Body Medium parameters used (interpolated):
f = 782 MHz; σ = 1.006 S/m; ε_r = 54.77; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-07-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7421; ConvF(9.66, 9.66, 9.66) @ 782 MHz; Calibrated: 3/18/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 13 Antenna 3, Body SAR, Back side, Mid.ch, 10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.20 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 2.33 W/kg
SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.520 W/kg



0 dB = 1.57 W/kg = 1.96 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR00FP7GX

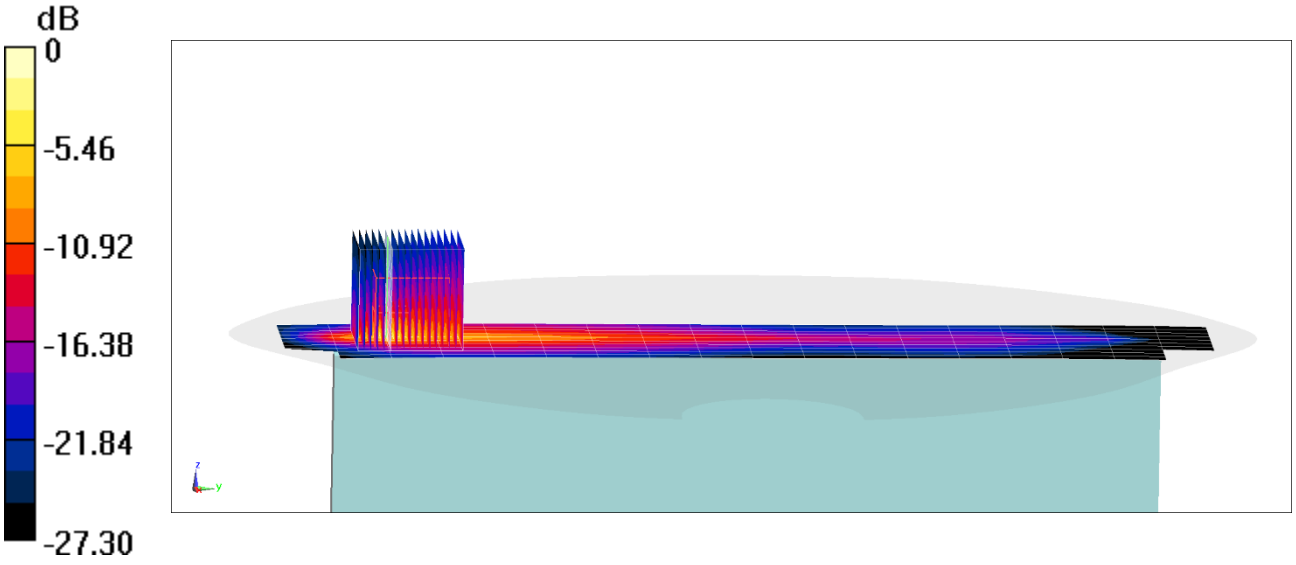
Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1
Medium: 750 MHz Body Medium parameters used (interpolated):
f = 793 MHz; σ = 1.01 S/m; ε_r = 54.701; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-07-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7421; ConvF(9.66, 9.66, 9.66) @ 793 MHz; Calibrated: 3/18/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 14 Antenna 1, Body SAR, Left Edge, Mid.ch,
10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset

Area Scan (9x6x1): Measurement grid: dx=5mm, dy=15mm
Zoom Scan (17x17x8)/Cube 0: Measurement grid: dx=1.9mm, dy=1.9mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 23.92 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 22.0 W/kg
SAR(1 g) = 0.975 W/kg; SAR(10 g) = 0.270 W/kg



0 dB = 4.01 W/kg = 6.03 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR009P7GX

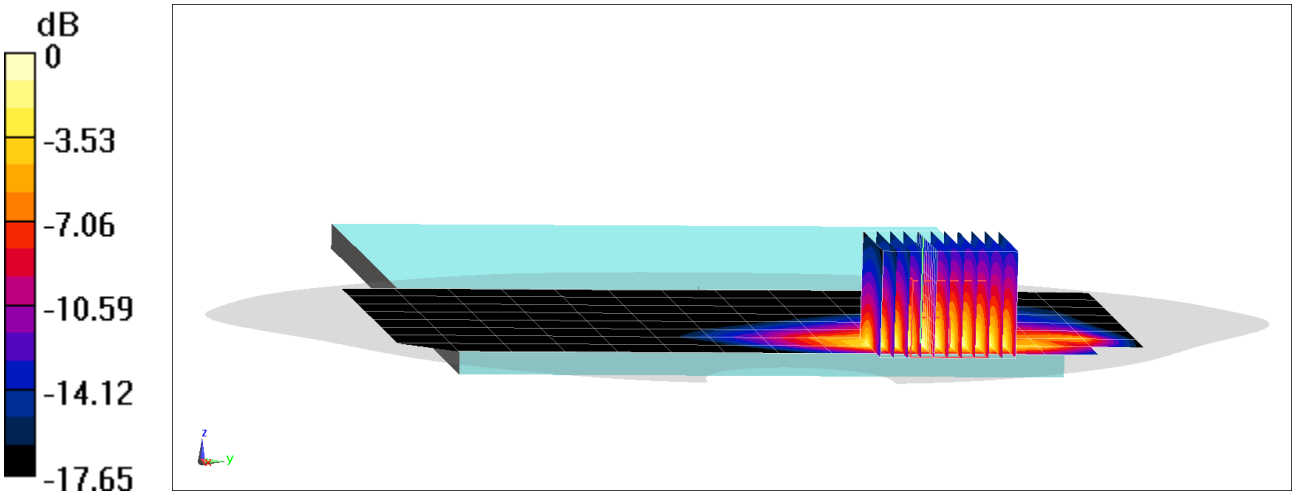
Communication System: UID 0, _LTE Band 26; Frequency: 819 MHz; Duty Cycle: 1:1
Medium: 835 MHz Body Medium parameters used (extrapolated):
f = 819 MHz; σ = 0.967 S/m; ε_r = 55.944; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-15-2020; Ambient Temp: 20.0°C; Tissue Temp: 18.4°C

Probe: EX3DV4 - SN7416; ConvF(9.71, 9.71, 9.71) @ 819 MHz; Calibrated: 6/19/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/14/2019
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 26 (Cell.) Antenna 3, Body SAR, Back side, Low.ch, 10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset

Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (11x11x8)/Cube 0: Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 32.55 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.85 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.519 W/kg



0 dB = 1.77 W/kg = 2.48 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR00GP7GX

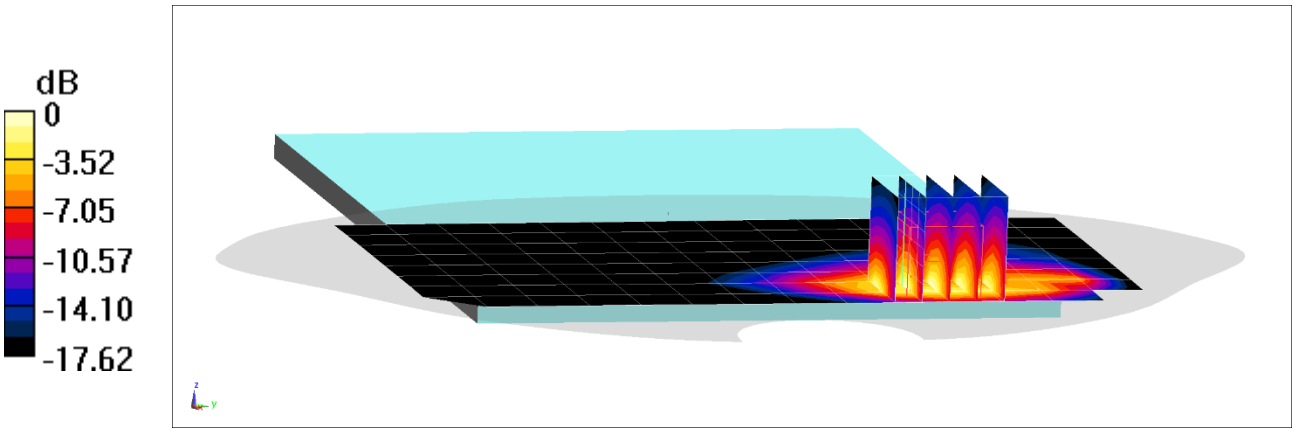
Communication System: UID 0, _LTE Band 5 (Cell.); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium: 835 MHz Body Medium parameters used (interpolated):
f = 836.5 MHz; σ = 1.004 S/m; ε_r = 54.251; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 12-26-2019; Ambient Temp: 22.6°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN3837; ConvF(9.08, 9.08, 9.08) @ 836.5 MHz; Calibrated: 1/28/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/15/2019
Phantom: Twin-SAM V4.0 (20deg probe tilt) SUB use; Type: QD 000 P40 CC; Serial: 1403
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 5 (Cell.) Antenna 3, Body SAR, Back side, Mid.ch, 10 MHz Bandwidth, QPSK, 1 RB,0 RB Offset

Area Scan (11x17x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.33 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 2.30 W/kg
SAR(1 g) = 0.982 W/kg; SAR(10 g) = 0.496 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR032P7GX

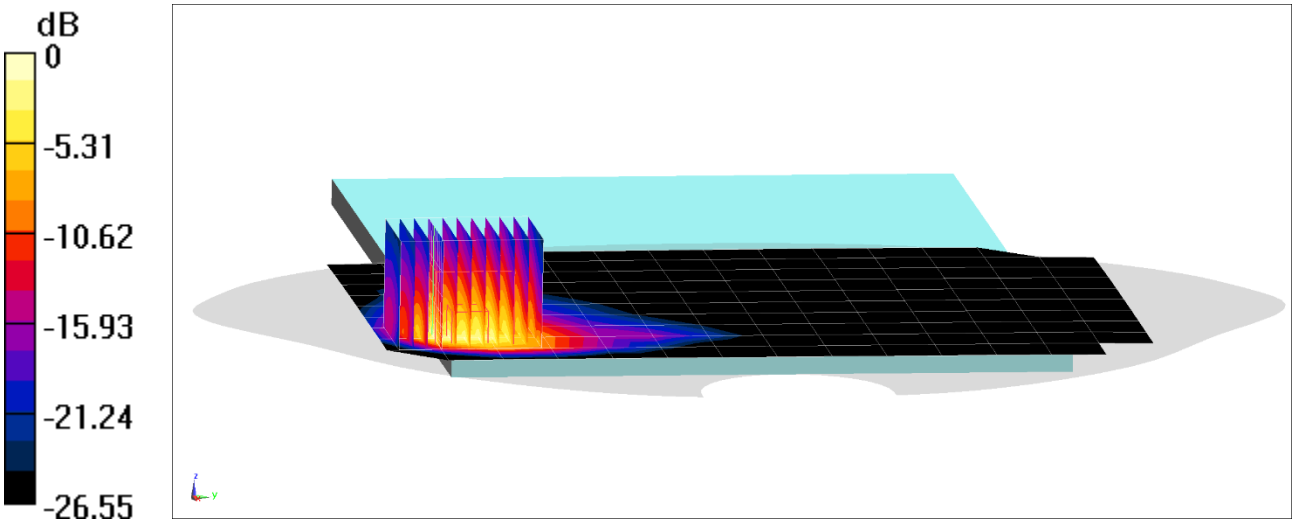
Communication System: UID 0, LTE Band 4 (AWS); Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium: 1750 MHz Body Medium parameters used (interpolated):
f = 1732.5 MHz; σ = 1.494 S/m; ε_r = 51.591; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-07-2020; Ambient Temp: 20.3°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7416; ConvF(7.89, 7.89, 7.89) @ 1732.5 MHz; Calibrated: 6/19/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/14/2019
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 4 (AWS) Antenna 2A, Body SAR, Back side, Mid.ch, 20 MHz Bandwidth, QPSK, 100 RB, 0 RB Offset

Area Scan (11x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (9x11x8)/Cube 0: Measurement grid: dx=3.9mm, dy=3.9mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 25.13 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 5.10 W/kg
SAR(1 g) = 0.981 W/kg; SAR(10 g) = 0.460 W/kg



0 dB = 2.24 W/kg = 3.50 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR009P7GX

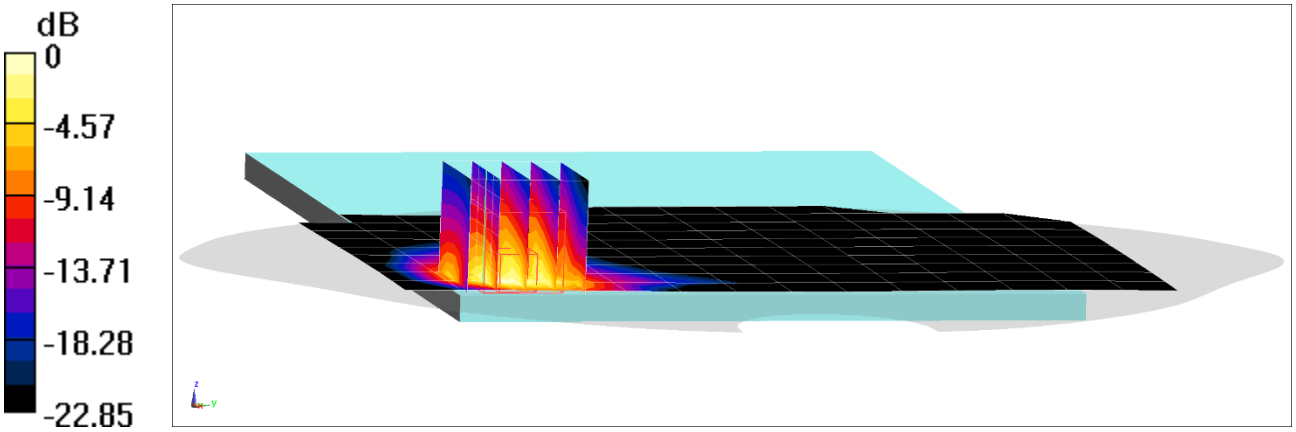
Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1
Medium: 1750 MHz Body Medium parameters used (interpolated):
f = 1745 MHz; σ = 1.479 S/m; ε_r = 52.321; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-21-2020; Ambient Temp: 23.8°C; Tissue Temp: 18.4°C

Probe: EX3DV4 - SN7427; ConvF(8.14, 8.14, 8.14) @ 1745 MHz; Calibrated: 2/19/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1403; Calibrated: 2/13/2019
Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 66 (AWS) Antenna 4A, Body SAR, Back side, Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

Area Scan (11x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.18 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.23 W/kg
SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.462 W/kg



0 dB = 1.59 W/kg = 2.01 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR00TP7GX

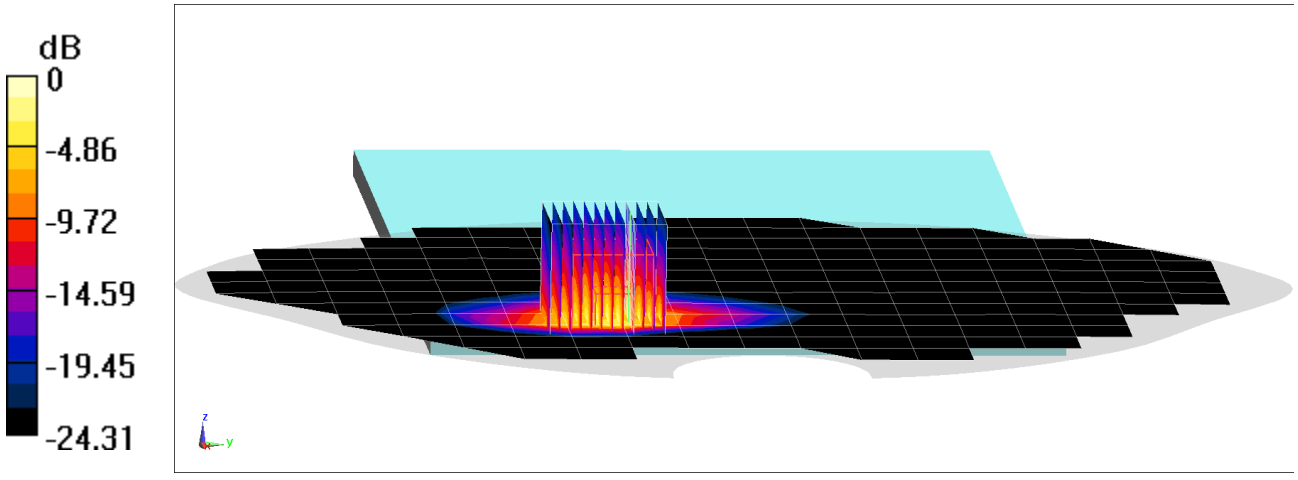
Communication System: UID 0, LTE Band 2 (PCS); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: 1900 MHz Body Medium parameters used:
f = 1880 MHz; σ = 1.567 S/m; ε_r = 52.249; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-18-2020; Ambient Temp: 19.9°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7420; ConvF(7.64, 7.64, 7.64) @ 1880 MHz; Calibrated: 11/21/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1213; Calibrated: 11/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 2 (PCS) Antenna 2B, Body SAR, Back side, Mid.ch, 20 MHz Bandwidth, QPSK, 50 RB, 25 RB Offset

Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (12x12x8)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 27.60 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 6.99 W/kg
SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.481 W/kg



0 dB = 2.66 W/kg = 4.25 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR009P7GX

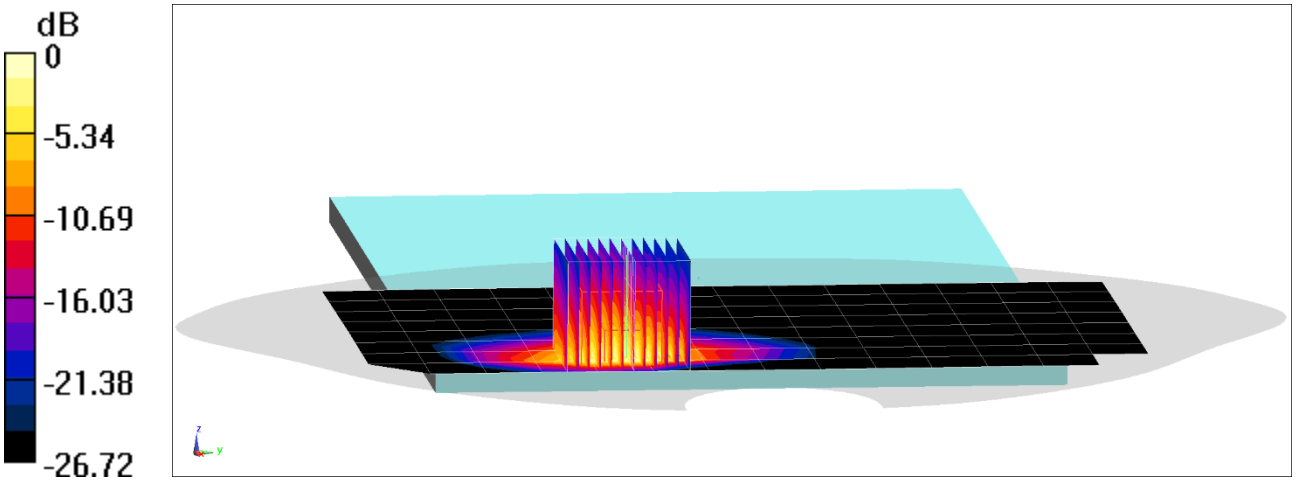
Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1
Medium: 1900 MHz Body Medium parameters used (interpolated):
f = 1860 MHz; σ = 1.462 S/m; ε_r = 51.391; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 12-30-2019; Ambient Temp: 21.7°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7491; ConvF(8.04, 8.04, 8.04) @ 1860 MHz; Calibrated: 7/16/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1402; Calibrated: 7/10/2019
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 25 (PCS) Antenna 2B, Body SAR, Back side, Low.ch, 20 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset/Resolution

Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (12x12x8)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 28.26 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 5.56 W/kg
SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.436 W/kg



0 dB = 2.41 W/kg = 3.82 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR009P7GX

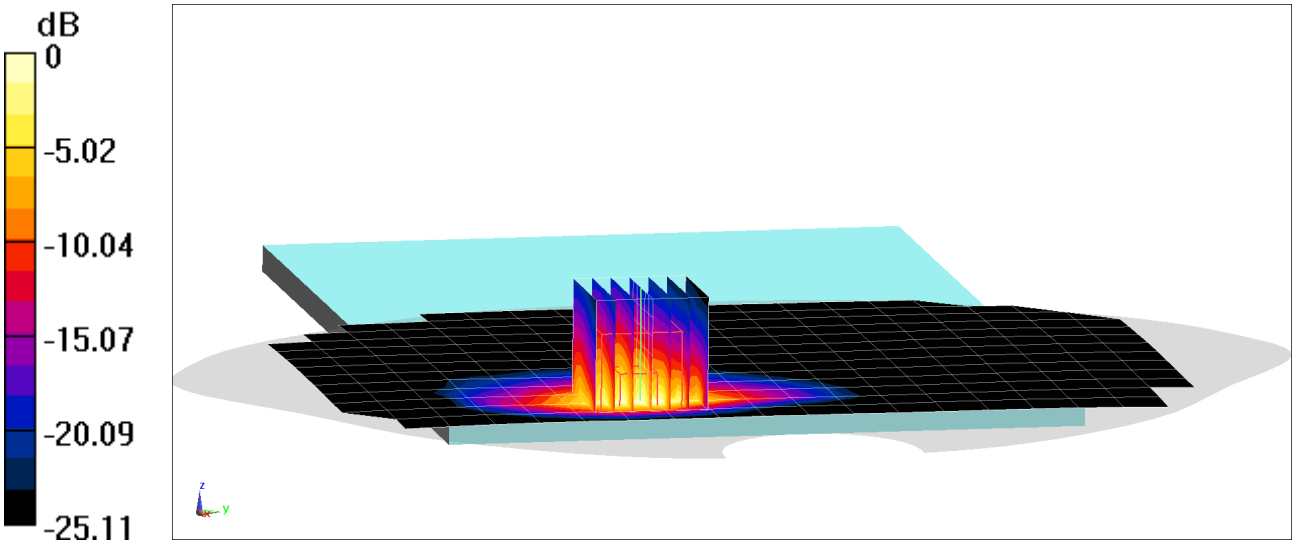
Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1
Medium: 2300 MHz Body Medium parameters used:
f = 2310 MHz; σ = 1.866 S/m; ε_r = 51.325; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-19-2020; Ambient Temp: 22.4°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7532; ConvF(7.93, 7.93, 7.93) @ 2310 MHz; Calibrated: 4/12/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/17/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 30 Antenna 2B, Body SAR, Back side, Mid.ch, 10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

Area Scan (14x20x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.60 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 2.80 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.406 W/kg



0 dB = 1.90 W/kg = 2.79 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZG001P7GP

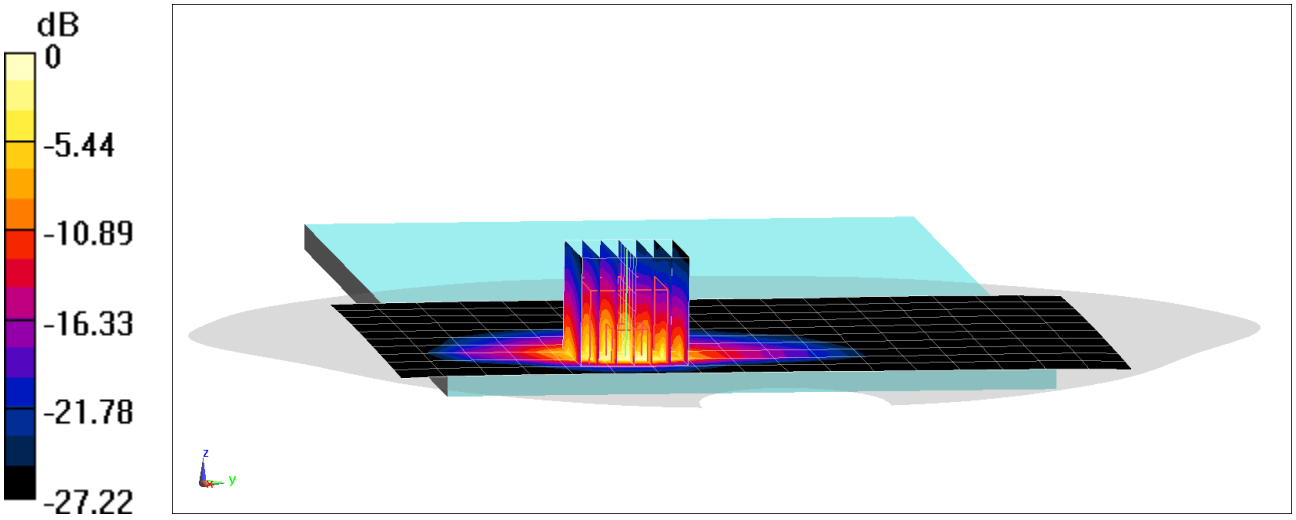
Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1
Medium: 2450-2600 MHz Body Medium parameters used (interpolated):
f = 2510 MHz; σ = 2.106 S/m; ε_r = 51.624; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 12-26-2019; Ambient Temp: 21.6°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2510 MHz; Calibrated: 4/12/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/17/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 7 Antenna 4B, Body SAR, Back side, Low.ch, 20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

Area Scan (11x18x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.80 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.70 W/kg
SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.397 W/kg



0 dB = 2.45 W/kg = 3.89 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR009P7GX

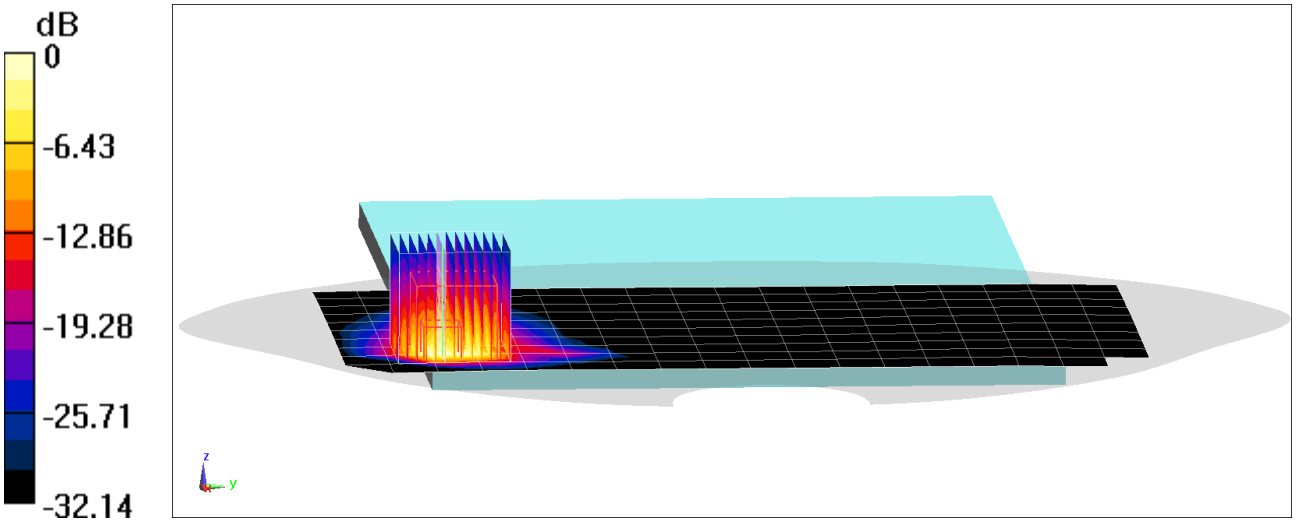
Communication System: UID 0, LTE Band 41 (Class 3); Frequency: 2636.5 MHz; Duty Cycle: 1:1.58
Medium: 2450-2600 MHz Body Medium parameters used (interpolated):
f = 2636.5 MHz; σ = 2.278 S/m; ε_r = 50.296; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-05-2020; Ambient Temp: 22.2°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7532; ConvF(7.47, 7.47, 7.47) @ 2636.5 MHz; Calibrated: 4/12/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/17/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 41 Antenna 4A, Body SAR, Back side, Mid-High.ch, 20 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset

Area Scan (11x19x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (13x13x8)/Cube 0: Measurement grid: dx=2.5mm, dy=2.5mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 17.52 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 5.97 W/kg
SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.411 W/kg



0 dB = 2.93 W/kg = 4.67 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZR00GP7GX

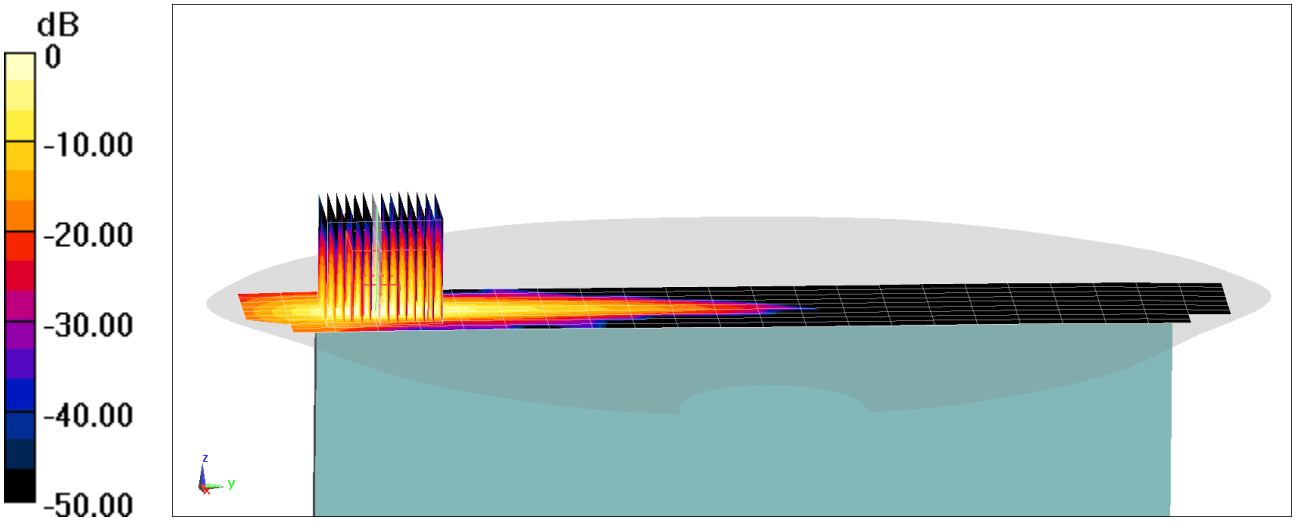
Communication System: UID 0, _LTE Band 48; Frequency: 3560 MHz; Duty Cycle: 1:1.58
Medium: 3500-3730 MHz Body Medium parameters used (interpolated):
f = 3560 MHz; σ = 3.464 S/m; ε_r = 48.936; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-07-2020; Ambient Temp: 22.3°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3949; ConvF(6.88, 6.88, 6.88) @ 3560 MHz; Calibrated: 8/29/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1408; Calibrated: 8/12/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: LTE Band 48 Antenna 3, Body SAR, Right Edge, Low.ch, 20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

Area Scan (10x24x1): Measurement grid: dx=5mm, dy=12mm
Zoom Scan (14x14x8)/Cube 0: Measurement grid: dx=2.5mm, dy=2.5mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 19.22 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 4.55 W/kg
SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.300 W/kg



0 dB = 2.69 W/kg = 4.30 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZN003P7GX

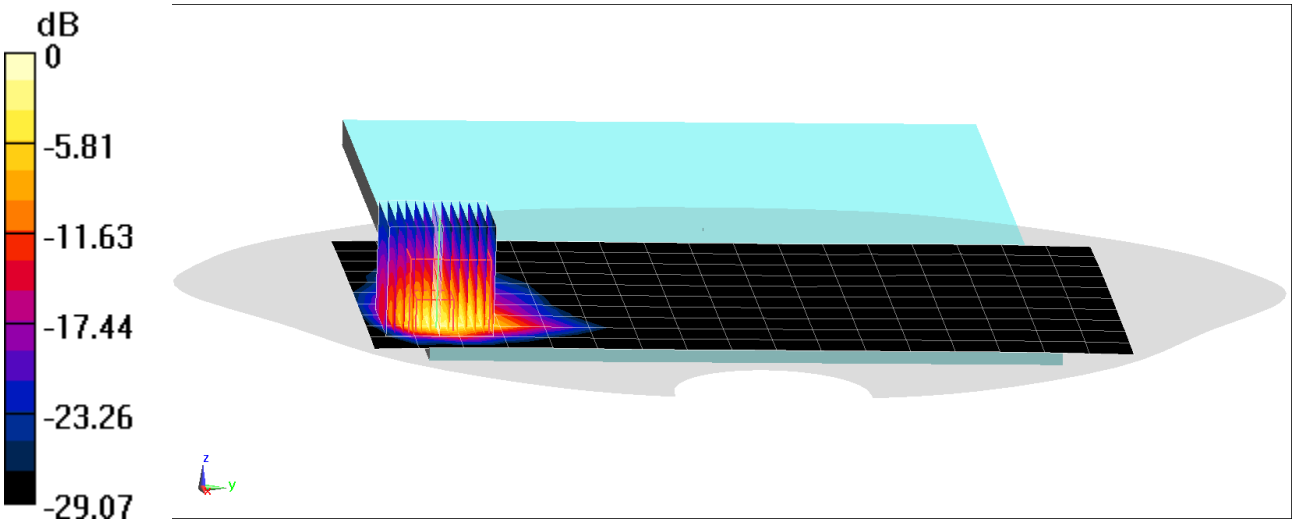
Communication System: UID 0, IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: 2450 MHz Body Medium parameters used (interpolated):
f = 2412 MHz; σ = 1.989 S/m; ε_r = 51.228; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 12-20-2019; Ambient Temp: 21.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2412 MHz; Calibrated: 4/12/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/17/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: IEEE 802.11b Antenna 4A Variant 1, 22 MHz Bandwidth, Body SAR, Ch 1, 1 Mbps, Back Side

Area Scan (11x18x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (13x13x8)/Cube 0: Measurement grid: dx=2.4mm, dy=2.4mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 19.45 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 4.32 W/kg
SAR(1 g) = 0.875 W/kg; SAR(10 g) = 0.362 W/kg



0 dB = 2.30 W/kg = 3.62 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZN009P7GX

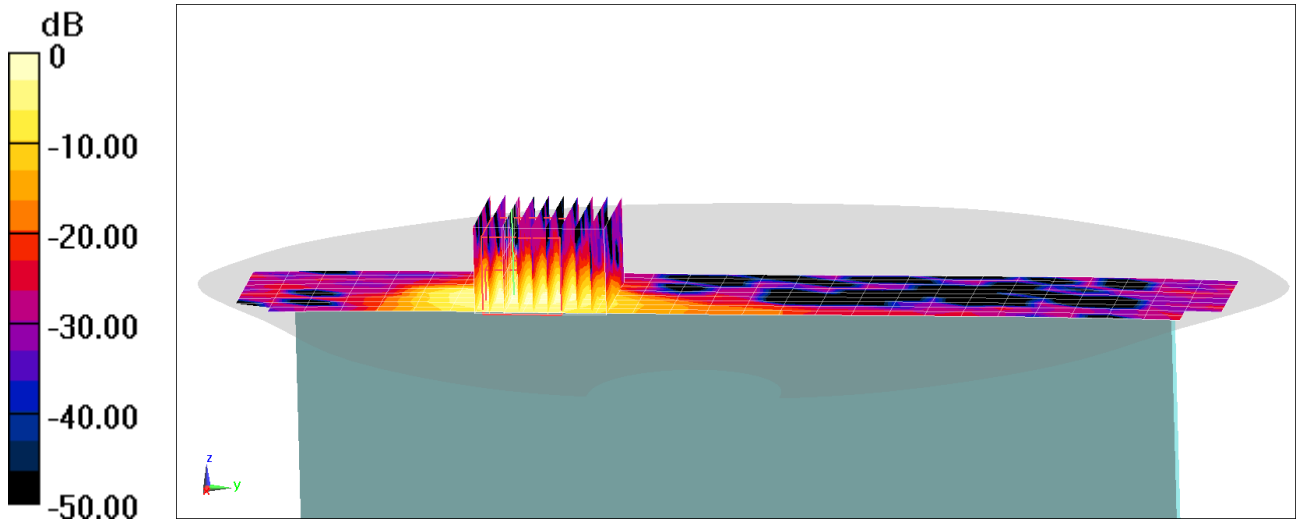
Communication System: UID 0, _IEEE 802.11ac; Frequency: 5775 MHz; Duty Cycle: 1:1
Medium: 5 GHz Body Medium parameters used (interpolated):
f = 5775 MHz; σ = 5.903 S/m; ε_r = 46.471; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 12-16-2019; Ambient Temp: 22.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3837; ConvF(4.34, 4.34, 4.34) @ 5775 MHz; Calibrated: 1/28/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/15/2019
Phantom: Twin-SAM V4.0 (20deg probe tilt) SUB use; Type: QD 000 P40 CC; Serial: 1403
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: IEEE 802.11ac 5GHz ANTupper Variant 2, U-NII-3, 80 MHz Bandwidth, Body SAR, Ch 155, 29.3 Mbps, Right Edge

Area Scan (10x28x1): Measurement grid: dx=5mm, dy=10mm
Zoom Scan (10x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 12.89 V/m; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 5.07 W/kg
SAR(1 g) = 0.937 W/kg; SAR(10 g) = 0.323 W/kg



0 dB = 2.54 W/kg = 4.05 dBW/kg

DUT: BCGA2068; Type: Tablet Device; Serial: DLXZN003P7GX

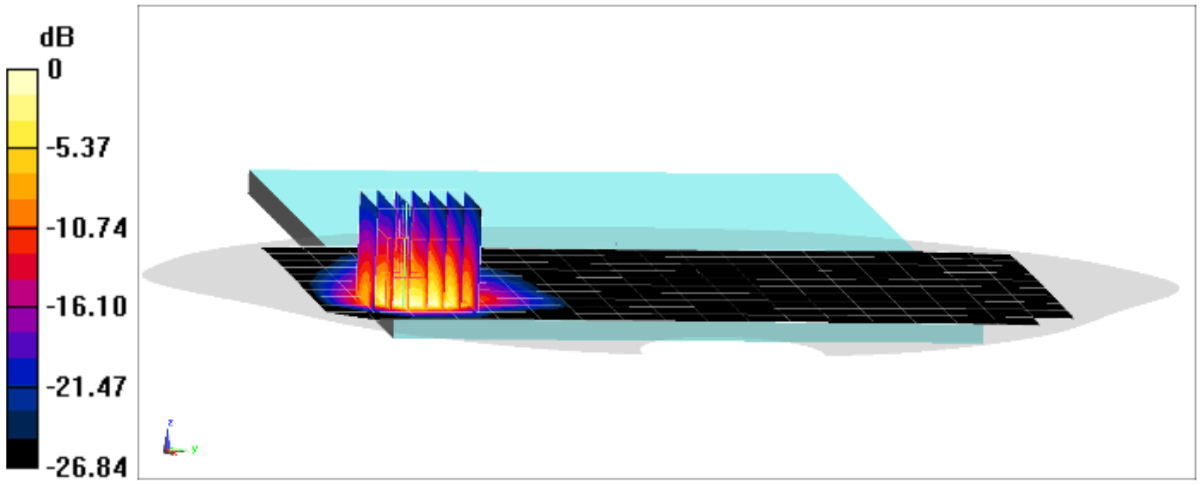
Communication System: UID 0, Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1.297
Medium: 2450 MHz Medium parameters used (interpolated):
f = 2441 MHz; σ = 1.937 S/m; ε_r = 50.89; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-14-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2441 MHz; Calibrated: 4/12/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/17/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: Bluetooth Antenna 2A Variant 1, Body SAR, Ch 39, 1 Mbps, Back Side

Area Scan (11x19x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.17 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.66 W/kg
SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.470 W/kg



0 dB = 2.26 W/kg = 3.54 dBW/kg

APPENDIX B: SYSTEM VERIFICATION

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DUT: Dipole 750 MHz; Type: D750V3; Serial: 1097

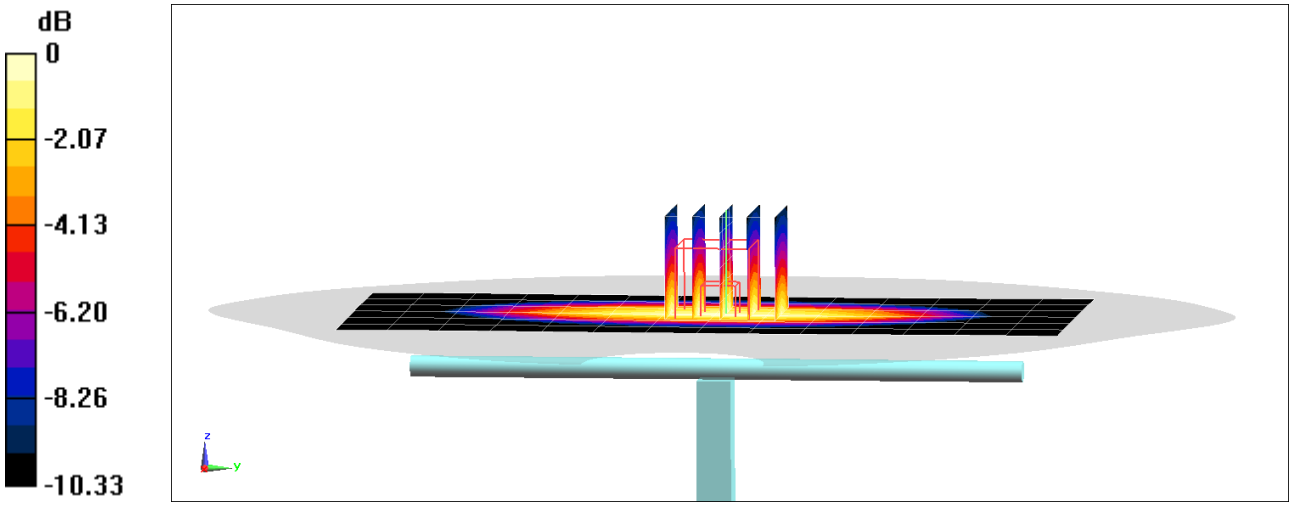
Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1
Medium: 750 MHz Body Medium parameters used (interpolated):
f = 750 MHz; σ = 0.977 S/m; ε_r = 54.636; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 01-05-2020; Ambient Temp: 20.0°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7421; ConvF(9.66, 9.66, 9.66) @ 750 MHz; Calibrated: 3/18/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

750 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 2.66 W/kg
SAR(1 g) = 1.77 W/kg; SAR(10 g) = 1.18 W/kg
Deviation(1 g) = 3.39%



0 dB = 2.36 W/kg = 3.73 dBW/kg

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DUT: Dipole 750 MHz; Type: D750V3; Serial: 1097

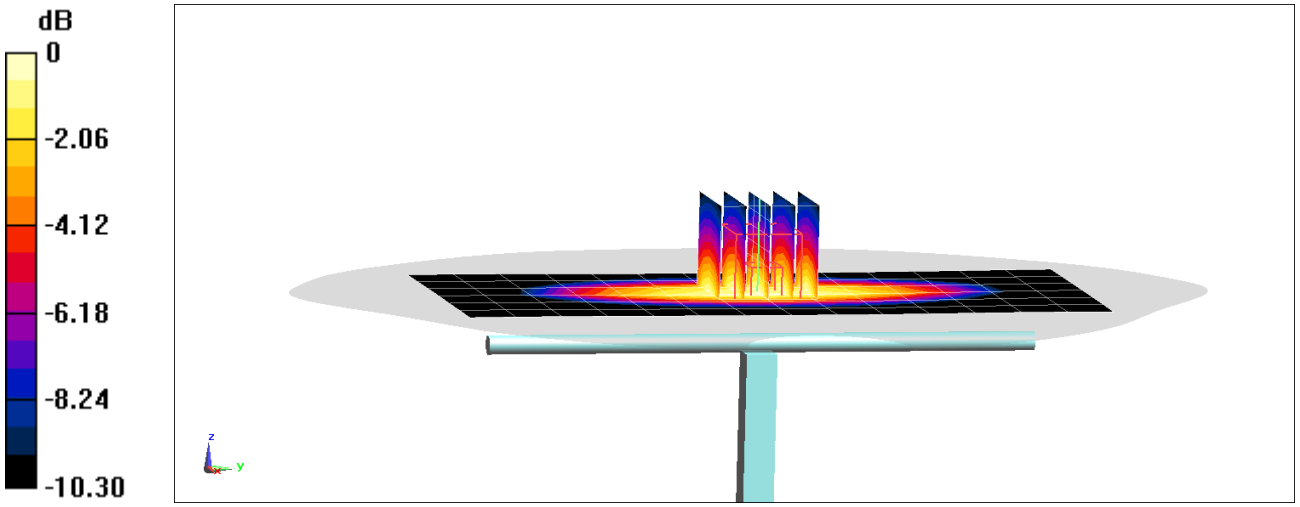
Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1
Medium: 750 MHz Body Medium parameters used (interpolated):
f = 750 MHz; σ = 0.976 S/m; ε_r = 54.862; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 01-07-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7421; ConvF(9.66, 9.66, 9.66) @ 750 MHz; Calibrated: 3/18/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

750 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 2.65 W/kg
SAR(1 g) = 1.76 W/kg; SAR(10 g) = 1.16 W/kg
Deviation(1 g) = 2.80%



0 dB = 2.34 W/kg = 3.69 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d040

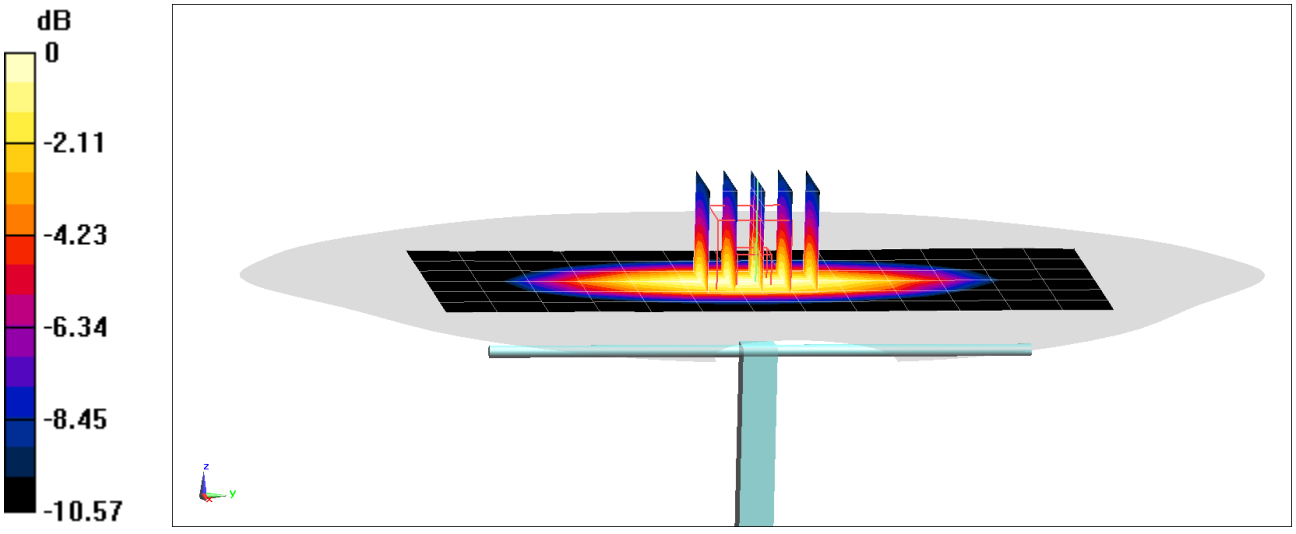
Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: 835 MHz Body Medium parameters used:
f = 835 MHz; σ = 1.002 S/m; ε_r = 54.27; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 12-26-2019; Ambient Temp: 22.6°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN3837; ConvF(9.08, 9.08, 9.08) @ 835 MHz; Calibrated: 1/28/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/15/2019
Phantom: Twin-SAM V4.0 (20deg probe tilt) SUB use; Type: QD 000 P40 CC; Serial: 1403
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

835 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 3.05 W/kg
SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.33 W/kg
Deviation(1 g) = 7.03%



0 dB = 2.69 W/kg = 4.30 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d040

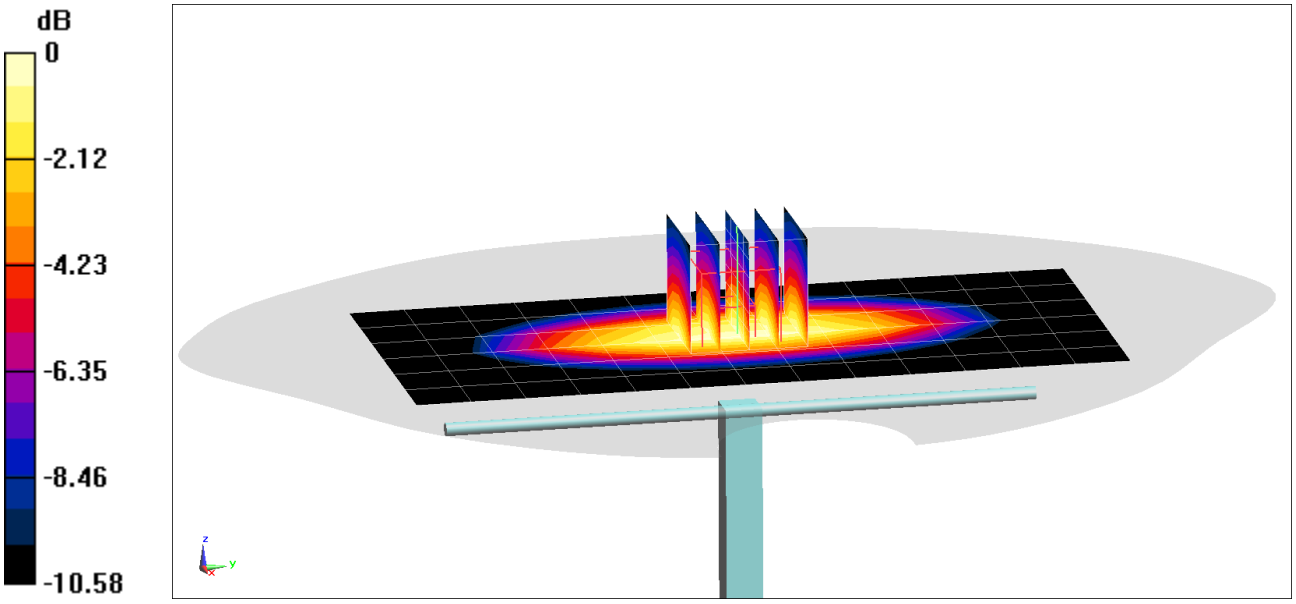
Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: 835 MHz Body Medium parameters used:
f = 835 MHz; σ = 0.978 S/m; ε_r = 54.515; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 12-30-2019; Ambient Temp: 20.0°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7416; ConvF(9.71, 9.71, 9.71) @ 835 MHz; Calibrated: 6/19/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/14/2019
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

835 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 2.86 W/kg
SAR(1 g) = 1.9 W/kg; SAR(10 g) = 1.25 W/kg
Deviation(1 g) = -0.31%



0 dB = 2.52 W/kg = 4.01 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d040

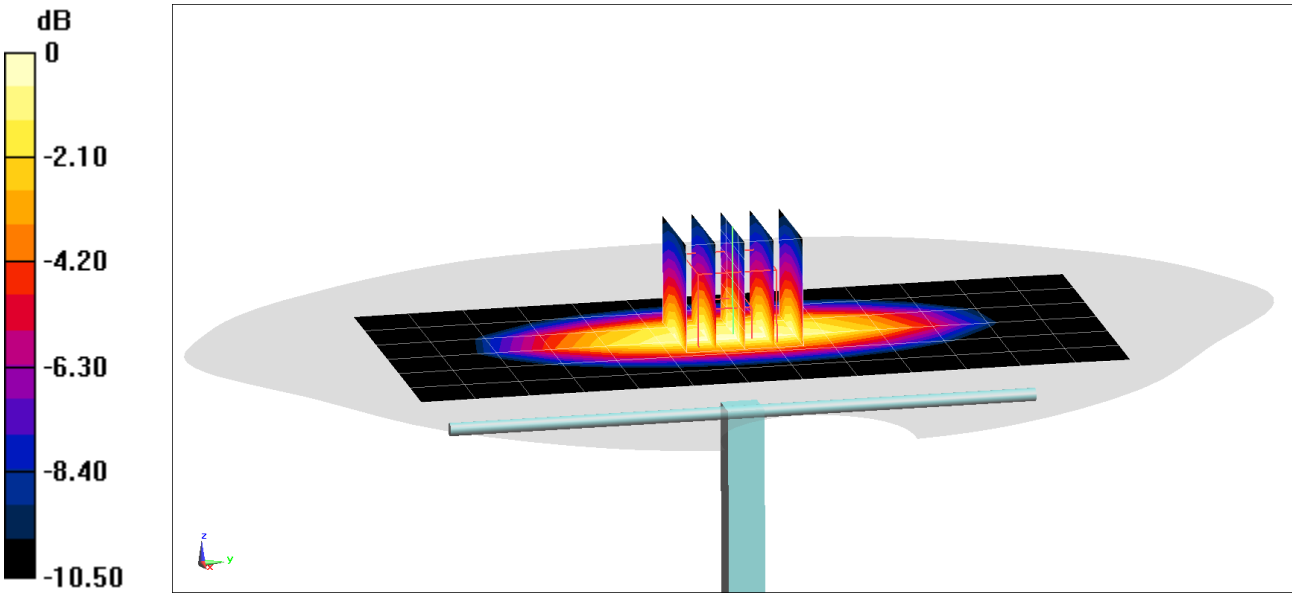
Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: 835 MHz Body Medium parameters used:
f = 835 MHz; σ = 1.001 S/m; ε_r = 56.021; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 01-09-2020; Ambient Temp: 22.0°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7416; ConvF(9.71, 9.71, 9.71) @ 835 MHz; Calibrated: 6/19/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/14/2019
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

835 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 2.85 W/kg
SAR(1 g) = 1.89 W/kg; SAR(10 g) = 1.24 W/kg
Deviation(1 g) = -0.84%



0 dB = 2.52 W/kg = 4.01 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d040

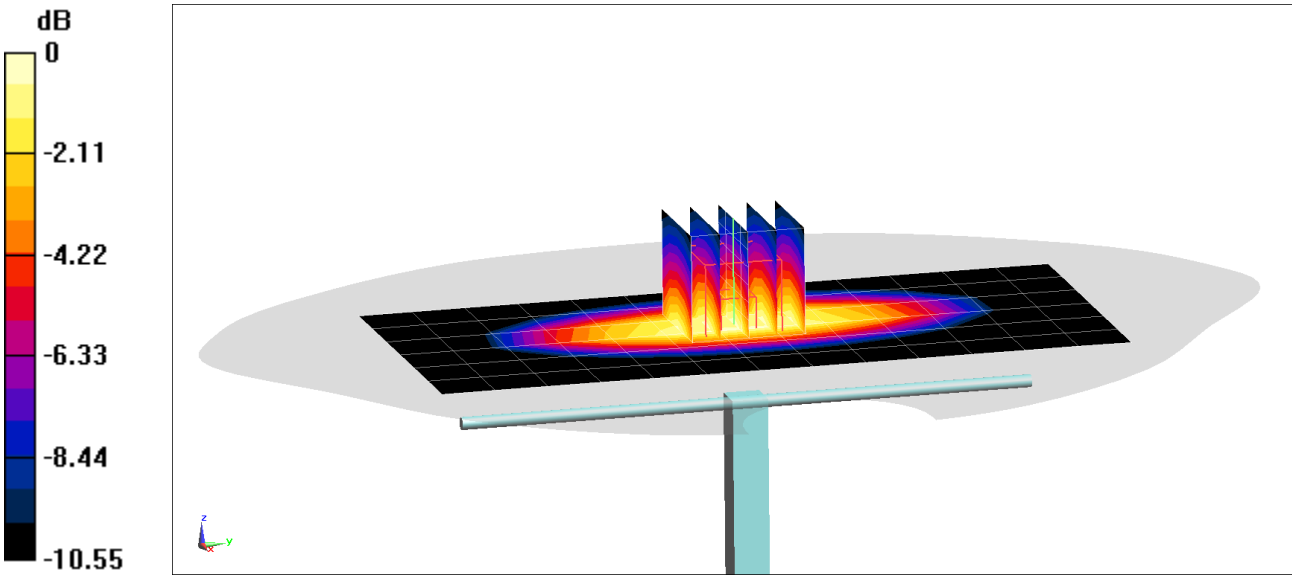
Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: 835 MHz Body Medium parameters used:
f = 835 MHz; σ = 0.989 S/m; ε_r = 55.563; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 01-15-2020; Ambient Temp: 20.0°C; Tissue Temp: 18.4°C

Probe: EX3DV4 - SN7416; ConvF(9.71, 9.71, 9.71) @ 835 MHz; Calibrated: 6/19/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/14/2019
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

835 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 2.76 W/kg
SAR(1 g) = 1.81 W/kg; SAR(10 g) = 1.19 W/kg
Deviation(1 g) = -5.04%



0 dB = 2.44 W/kg = 3.87 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1083

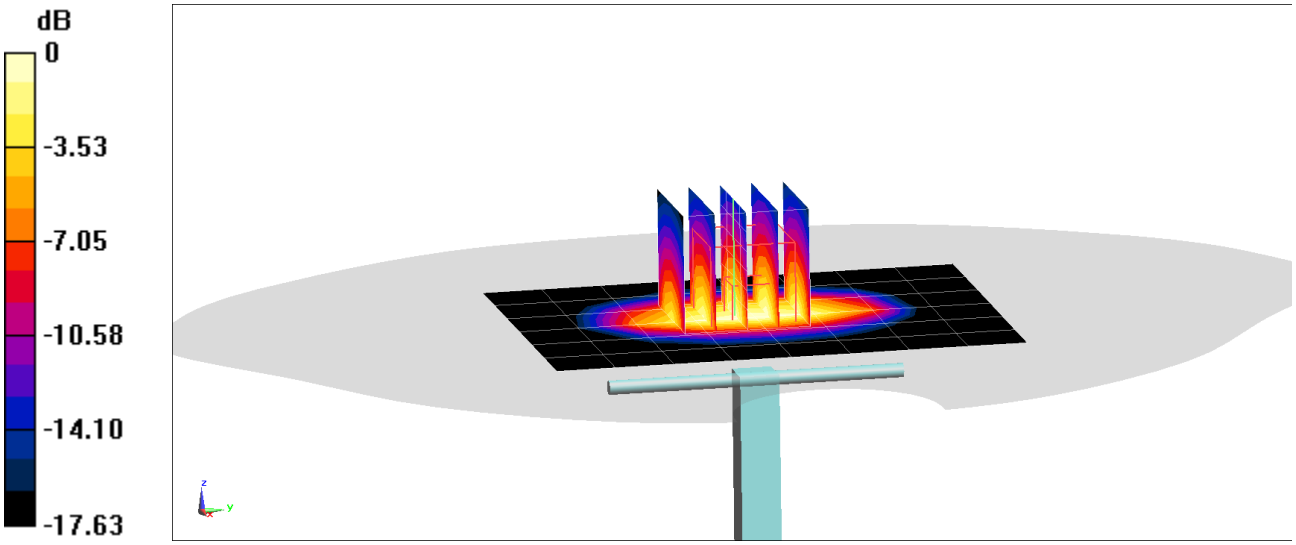
Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: 1750 MHz Body Medium parameters used:
f = 1750 MHz; σ = 1.509 S/m; ε_r = 51.554; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-07-2020; Ambient Temp: 20.3°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7416; ConvF(7.89, 7.89, 7.89) @ 1750 MHz; Calibrated: 6/19/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/14/2019
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

1750 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 6.86 W/kg
SAR(1 g) = 3.81 W/kg; SAR(10 g) = 2.01 W/kg
Deviation(1 g) = 2.70%



0 dB = 5.73 W/kg = 7.58 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1083

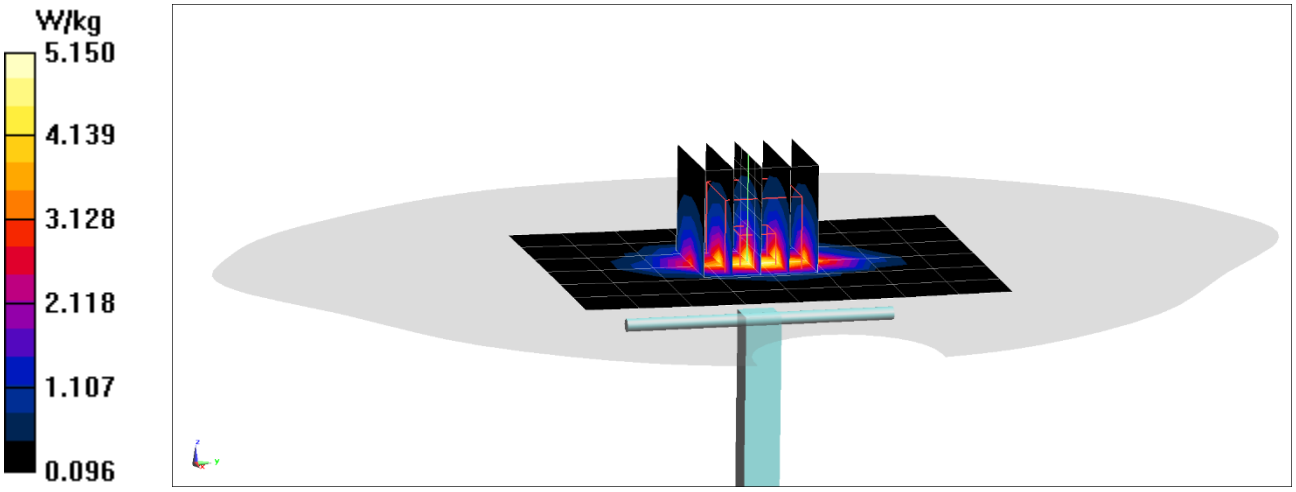
Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: 1750 MHz Body Medium parameters used:
f = 1750 MHz; σ = 1.484 S/m; ε_r = 52.302; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-21-2020; Ambient Temp: 23.8°C; Tissue Temp: 18.4°C

Probe: EX3DV4 - SN7427; ConvF(8.14, 8.14, 8.14) @ 1750 MHz; Calibrated: 2/19/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1403; Calibrated: 2/13/2019
Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

1750 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 6.07 W/kg
SAR(1 g) = 3.42 W/kg; SAR(10 g) = 1.82 W/kg
Deviation(1 g) = -7.82%



DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d026

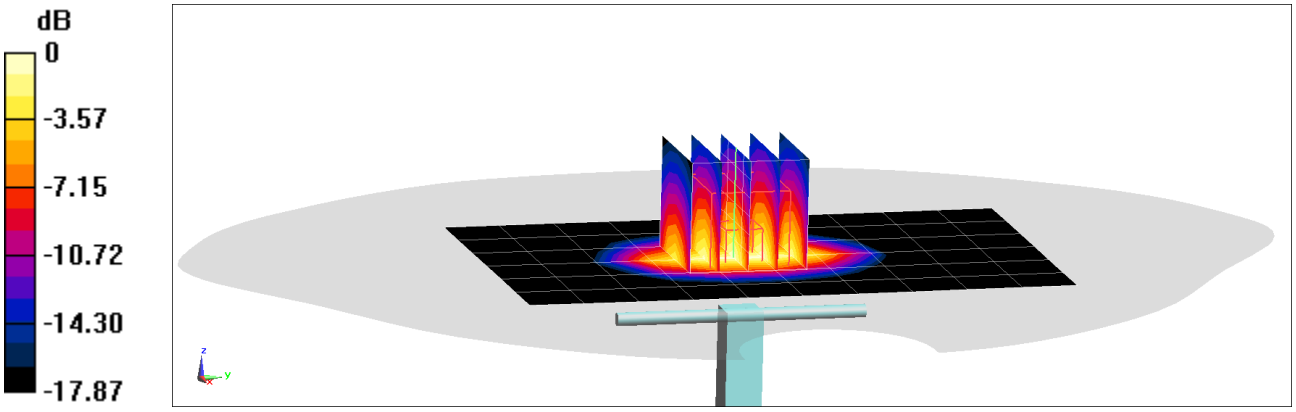
Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: 1900 MHz Body Medium parameters used (interpolated):
f = 1900 MHz; σ = 1.491 S/m; ε_r = 51.205; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-30-2019; Ambient Temp: 21.7°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7491; ConvF(8.04, 8.04, 8.04) @ 1900 MHz; Calibrated: 7/16/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1402; Calibrated: 7/10/2019
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

1900 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 7.60 W/kg
SAR(1 g) = 4.18 W/kg; SAR(10 g) = 2.17 W/kg
Deviation(1 g) = 4.76%



0 dB = 6.39 W/kg = 8.06 dBW/kg

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d026

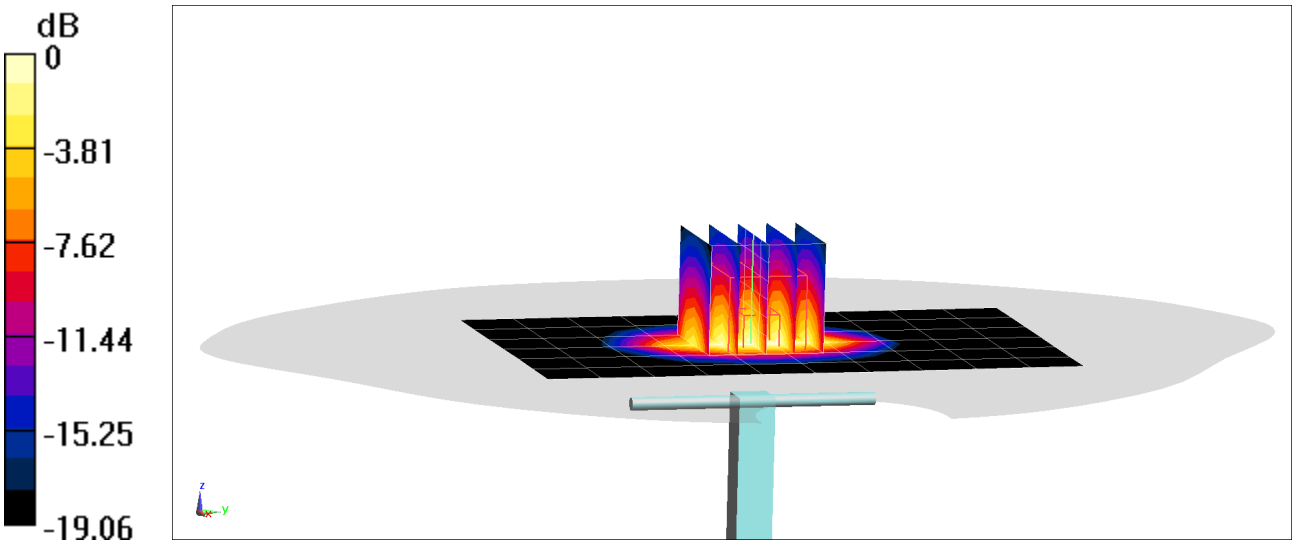
Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: 1900 MHz Body Medium parameters used (interpolated):
f = 1900 MHz; σ = 1.555 S/m; ε_r = 51.648; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-07-2020; Ambient Temp: 21.7°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7491; ConvF(8.04, 8.04, 8.04) @ 1900 MHz; Calibrated: 7/16/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1402; Calibrated: 7/10/2019
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

1900 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 7.58 W/kg
SAR(1 g) = 4.02 W/kg; SAR(10 g) = 2.03 W/kg
Deviation(1 g) = 0.75%



0 dB = 6.30 W/kg = 7.99 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d026

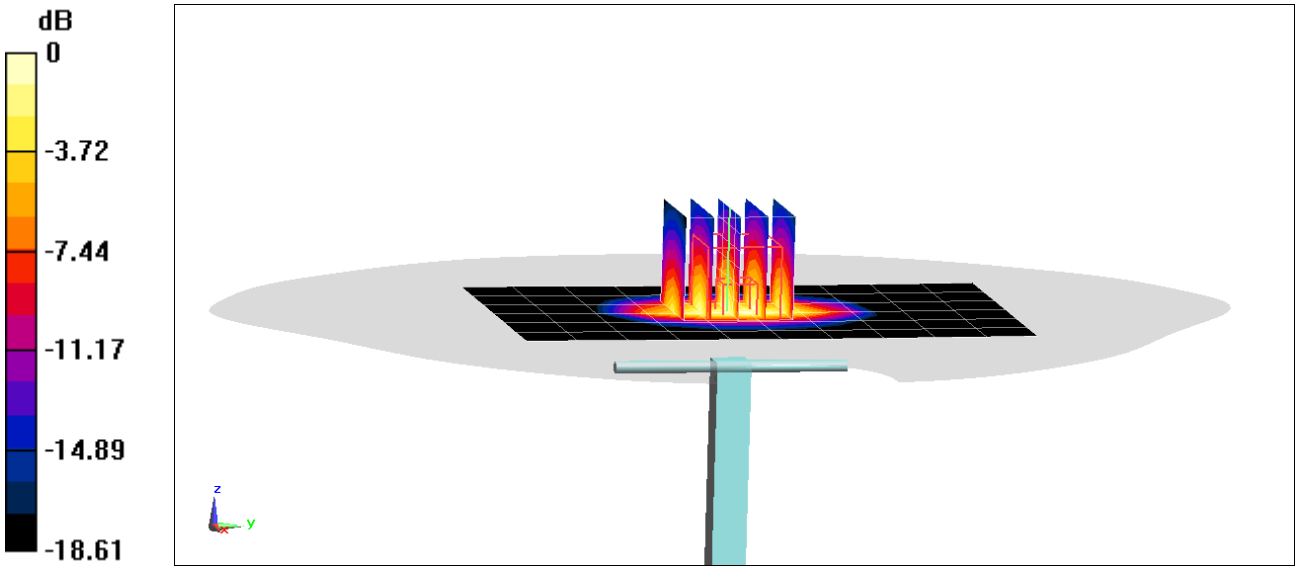
Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: 1900 MHz Body Medium parameters used (interpolated):
f = 1900 MHz; σ = 1.55 S/m; ε_r = 52.373; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-15-2020; Ambient Temp: 21.5°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7421; ConvF(7.6, 7.6, 7.6) @ 1900 MHz; Calibrated: 3/18/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

1900 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 7.61 W/kg
SAR(1 g) = 4.1 W/kg; SAR(10 g) = 2.11 W/kg
Deviation(1 g) = 2.76%



0 dB = 6.36 W/kg = 8.03 dBW/kg