



SAR EVALUATION REPORT

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

Date of Testing:
12/16/2019 – 01/14/2020
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C1912170052-01-R1.BCG

FCC ID: BCGA2230
APPLICANT: APPLE, INC.

DUT Type: Tablet Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: A2230
Additional Model(s): A2231

Equipment Class	Band & Mode	Tx Frequency	SAR
			1g Body (W/kg)
PCB	GPRS/EDGE 850	824.20 - 848.80 MHz	1.08
PCB	GPRS/EDGE 1900	1850.20 - 1909.80 MHz	1.10
PCB	UMTS 850	826.40 - 846.60 MHz	1.12
PCB	UMTS 1750	1712.4 - 1752.6 MHz	1.09
PCB	UMTS 1900	1852.4 - 1907.6 MHz	1.01
PCB	LTE Band 12	699.7 - 715.3 MHz	1.15
PCB	LTE Band 17	706.5 - 713.5 MHz	N/A
PCB	LTE Band 13	779.5 - 784.5 MHz	1.18
PCB	LTE Band 26 (Cell)	814.7 - 848.3 MHz	1.12
PCB	LTE Band 5 (Cell)	824.7 - 848.3 MHz	1.19
PCB	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	1.10
PCB	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	1.12
PCB	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	1.10
PCB	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	1.16
PCB	LTE Band 30	2307.5 - 2312.5 MHz	1.19
PCB	LTE Band 7	2502.5 - 2567.5 MHz	1.15
CBE	LTE Band 48	3552.5 - 3697.5 MHz	1.15
PCB	LTE Band 41	2498.5 - 2687.5 MHz	1.19
DTS	2.4 GHz WLAN	2412 - 2472 MHz	1.17
Nil	U-NII-1	5180 - 5240 MHz	N/A
Nil	U-NII-2A	5260 - 5320 MHz	1.08
Nil	U-NII-2C	5500 - 5720 MHz	1.19
Nil	U-NII-3	5745 - 5825 MHz	1.09
DSS/OTS	Bluetooth	2402 - 2480 MHz	1.18
Simultaneous SAR per KDB 690783 D01v01r03:			1.59

Note: This revised Test Report (S/N: 1C1912170052-01-R1.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



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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 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 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 48	Data	3552.5 - 3697.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 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 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 5 (Cell)	Maximum	20.60
	Nominal	20.10
LTE Band 5 (Cell) 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
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

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Mode / Band		Modulated Average (dBm)
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 5 (Cell)	Maximum	20.30
	Nominal	19.80
LTE Band 5 (Cell) 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
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

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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

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

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Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	3GPP DC-HSDPA
UMTS Band 4 (1750 MHz)	Maximum	14.90	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

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

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

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Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	3GPP DC-HSDPA
UMTS Band 4 (1750 MHz)	Maximum	14.50	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

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 Output Power – Inter-Band ULCA Active

A. Antenna 1

Mode / Band		Modulated Average (dBm)
LTE Band 12	Maximum	18.50
	Nominal	18.00
LTE Band 13	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 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 H.

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

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	

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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) - Antenna 5																			
		20 MHz Bandwidth										40 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	
IEEE 802.11a (5 GHz)	Maximum	16.00	16.00	16.50	16.50	15.00	16.50	14.75	16.50	15.50											
	Nominal	14.50	14.50	15.00	15.00	14.00	15.00	13.25	15.00	14.00											
IEEE 802.11n (5 GHz)	Maximum	16.00	16.00	16.50	16.50	15.00	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	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	16.50	15.00	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
	Nominal	14.50	14.50	15.00	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
IEEE 802.11ax SU (5 GHz)	Maximum	15.00	16.00	16.50	14.50	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
	Nominal	13.50	14.50	15.00	13.00	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

Mode / Band		Modulated Average - MIMO (dBm) 2Tx, CDD - 5GHz ANTlower																			
		20 MHz Bandwidth										40 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	
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
	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
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
	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

Mode / Band		Modulated Average - MIMO (dBm) 2Tx, SDM - 5GHz ANTlower																			
		20 MHz Bandwidth										40 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	
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
	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
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
	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

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

D. 5GHz ANTupper

Mode / Band		Modulated Average - Single Tx Chain (dBm) - 5GHz ANTupper																			
		20 MHz Bandwidth										40 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	
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
	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
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
	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

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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				
		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.

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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

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

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Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2A/B
- 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.

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.

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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.

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

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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

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

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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

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

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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, 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)											
		20 MHz Bandwidth				40 MHz Bandwidth				80 MHz Bandwidth			
	Channel	36-48	52-64	100-144	149-165	36-48	52-62	102-142	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	10.50				
	Nominal	9.50	9.75	8.50	9.00	9.50	9.75	8.50	9.00				
IEEE 802.11ac (5 GHz)	Maximum	11.00	11.25	10.00	10.50	11.00	11.25	10.00	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	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	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	9.00	9.00	9.00	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, 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	

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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, 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 E. 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 12 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 13 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 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 12 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 13 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 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 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 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 MIMO (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-and 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 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 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 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 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 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 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 ≤ 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 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.

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This device supports inter-band LTE Carrier Aggregation (CA) for LTE Bands 2/4/5/7/12/13/30/66 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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LTE Information					
Form Factor	Portable Tablet				
Frequency Range of each LTE transmission band	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 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 48 (3552.5 - 3697.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 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 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
Channel Bandwidths	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 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 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 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 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)
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)
UE Category	DL UE Cat 19 (QPSK, 16QAM, 64QAM, 256QAM), UL UE Cat 13 (QPSK, 16QAM, 64QAM)				
Modulations Supported in UL	QPSK, 16 QAM, 64 QAM				
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 E. All 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, WiFi Offloading, 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/m³)
- E = Total RMS electric field strength (V/m)

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

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 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.

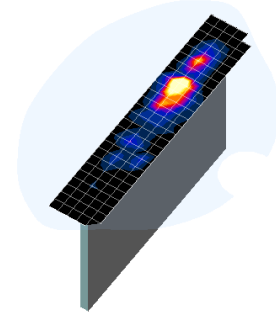


Figure 4-1
Sample SAR Area
Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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5 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 $\epsilon = 3$ and loss tangent $\delta = 0.02$.

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

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

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7 FCC MEASUREMENT PROCEDURES

Power measurements 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 $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

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	29.59	26.40	25.69	24.75
	190	29.48	26.29	25.59	24.64
	251	29.42	26.24	25.50	24.51

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 850	128	20.56	20.38	16.66	18.73
	190	20.45	20.27	16.56	18.62
	251	20.39	20.22	16.47	18.49

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	28.99	26.30	27.62	26.22
	190	28.97	26.26	27.51	26.10
	251	28.93	26.29	27.50	26.08

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	19.96	20.28	18.59	20.20
	190	19.94	20.24	18.48	20.08
	251	19.90	20.27	18.47	20.06

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	23.91	20.87	22.56	20.97
	661	23.82	20.81	22.40	20.88
	810	23.79	20.80	22.61	20.84

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	14.88	14.85	13.53	14.95
	661	14.79	14.79	13.37	14.86
	810	14.76	14.78	13.58	14.82

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	23.10	20.10	22.90	20.02
	661	23.00	19.97	22.79	19.84
	810	23.07	20.07	22.88	19.97

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	14.07	14.08	13.87	14.00
	661	13.97	13.95	13.76	13.82
	810	14.04	14.05	13.85	13.95

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	23.78	20.65	23.89	20.90
	661	23.70	20.40	23.79	20.77
	810	23.77	20.48	23.83	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	14.75	14.63	14.86	14.88
	661	14.67	14.38	14.76	14.75
	810	14.74	14.46	14.80	14.85

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	22.62	19.90	22.99	19.99
	661	22.94	19.77	22.69	19.67
	810	22.67	19.75	22.78	19.75

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	13.59	13.88	13.96	13.97
	661	13.91	13.75	13.66	13.65
	810	13.64	13.73	13.75	13.73

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	20.54	20.56	20.43	-
6	HSDPA	Subtest 1	20.21	20.17	20.22	0
6		Subtest 2	20.24	20.22	20.28	0
6		Subtest 3	20.29	20.27	20.30	0.5
6		Subtest 4	20.29	20.26	20.31	0.5
6	HSUPA	Subtest 1	20.17	20.15	20.21	0
6		Subtest 2	20.21	20.21	20.22	2
6		Subtest 3	20.24	20.25	20.25	1
6		Subtest 4	20.27	20.25	20.28	2
6		Subtest 5	20.18	20.16	20.20	0
8	DC-HSDPA	Subtest 1	19.89	19.88	19.94	0
8		Subtest 2	19.93	19.94	19.99	0
8		Subtest 3	19.97	19.97	20.00	0.5
8		Subtest 4	19.96	19.93	20.02	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	19.70	19.78	19.86	-
6	HSDPA	Subtest 1	20.03	19.94	19.89	0
6		Subtest 2	20.08	19.98	19.95	0
6		Subtest 3	20.11	20.02	19.96	0.5
6		Subtest 4	20.10	20.02	19.98	0.5
6	HSUPA	Subtest 1	20.05	19.97	19.88	0
6		Subtest 2	20.10	19.99	19.93	2
6		Subtest 3	20.09	20.10	19.93	1
6		Subtest 4	20.10	20.00	19.94	2
6		Subtest 5	20.04	19.96	19.91	0
8	DC-HSDPA	Subtest 1	20.02	19.90	19.89	0
8		Subtest 2	20.05	19.97	19.93	0
8		Subtest 3	19.94	20.03	19.93	0.5
8		Subtest 4	20.05	20.00	19.92	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	14.33	14.23	14.02	14.73	14.88	14.94	-
6	HSDPA	Subtest 1	14.24	14.21	13.94	14.76	14.84	14.97	0
6		Subtest 2	14.27	14.24	13.97	14.82	14.94	15.02	0
6		Subtest 3	14.34	14.30	14.03	14.85	15.01	15.10	0.5
6		Subtest 4	14.31	14.35	14.04	14.89	15.03	15.09	0.5
6	HSUPA	Subtest 1	14.28	14.22	13.95	14.62	14.80	14.87	0
6		Subtest 2	14.32	14.14	14.04	14.88	15.05	15.10	2
6		Subtest 3	14.37	14.24	14.06	14.77	14.94	15.07	1
6		Subtest 4	14.40	14.29	14.05	14.91	15.06	15.10	2
6		Subtest 5	14.21	14.19	13.93	14.77	14.92	14.93	0
8	DC-HSDPA	Subtest 1	14.25	14.23	13.91	14.71	14.86	14.98	0
8		Subtest 2	14.28	14.24	13.98	14.79	14.95	15.01	0
8		Subtest 3	14.31	14.30	13.99	14.82	14.97	15.01	0.5
8		Subtest 4	14.31	14.28	14.00	14.82	15.00	15.02	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	14.53	14.55	14.48	13.83	13.93	14.10	-
6	HSDPA	Subtest 1	14.58	14.60	14.46	13.96	13.97	14.10	0
6		Subtest 2	14.57	14.60	14.50	14.02	14.05	14.10	0
6		Subtest 3	14.60	14.60	14.54	14.08	14.10	14.10	0.5
6		Subtest 4	14.60	14.60	14.60	14.07	14.09	14.10	0.5
6	HSUPA	Subtest 1	14.35	14.33	14.24	13.94	14.00	14.10	0
6		Subtest 2	14.37	14.34	14.22	14.02	13.86	14.10	2
6		Subtest 3	14.48	14.51	14.36	14.05	14.09	14.10	1
6		Subtest 4	14.60	14.60	14.57	14.10	14.09	14.10	2
6		Subtest 5	14.59	14.59	14.51	13.93	13.92	14.10	0
8	DC-HSDPA	Subtest 1	14.59	14.60	14.53	14.06	14.04	14.08	0
8		Subtest 2	14.58	14.60	14.57	13.98	14.10	14.10	0
8		Subtest 3	14.55	14.60	14.52	14.00	14.10	14.06	0.5
8		Subtest 4	14.60	14.60	14.58	14.04	14.10	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	14.32	14.46	14.20	14.65	14.59	14.55	-
6	HSDPA	Subtest 1	14.29	14.27	14.14	14.51	14.46	14.52	0
6		Subtest 2	14.33	14.29	14.19	14.56	14.54	14.58	0
6		Subtest 3	14.38	14.36	14.21	14.62	14.61	14.65	0.5
6		Subtest 4	14.39	14.35	14.24	14.63	14.59	14.64	0.5
6	HSUPA	Subtest 1	14.24	14.26	14.08	14.50	14.47	14.53	0
6		Subtest 2	14.27	14.23	14.11	14.57	14.55	14.61	2
6		Subtest 3	14.26	14.22	14.09	14.59	14.56	14.62	1
6		Subtest 4	14.28	14.28	14.16	14.60	14.65	14.68	2
6		Subtest 5	14.24	14.21	14.08	14.45	14.42	14.47	0
8	DC-HSDPA	Subtest 1	14.28	14.29	14.11	14.57	14.45	14.50	0
8		Subtest 2	14.31	14.30	14.14	14.57	14.52	14.57	0
8		Subtest 3	14.30	14.32	14.15	14.63	14.56	14.60	0.5
8		Subtest 4	14.31	14.31	14.14	14.56	14.51	14.55	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	14.02	13.95	14.08	13.70	13.80	13.70	-
6	HSDPA	Subtest 1	13.86	13.72	13.74	14.04	14.03	14.14	0
6		Subtest 2	13.92	13.72	13.72	14.17	14.18	14.20	0
6		Subtest 3	13.93	13.79	13.77	14.19	14.21	14.22	0.5
6		Subtest 4	13.97	13.77	13.78	14.21	14.22	14.23	0.5
6	HSUPA	Subtest 1	13.83	13.67	13.70	13.90	13.91	13.96	0
6		Subtest 2	13.85	13.70	13.77	14.03	14.02	14.04	2
6		Subtest 3	13.86	13.74	13.76	13.82	13.90	13.89	1
6		Subtest 4	13.94	13.77	13.81	13.91	13.96	14.00	2
6		Subtest 5	13.86	13.65	13.66	13.84	13.86	13.85	0
8	DC-HSDPA	Subtest 1	13.83	13.80	13.64	14.09	14.12	14.09	0
8		Subtest 2	13.81	13.63	13.61	14.15	14.18	14.14	0
8		Subtest 3	13.81	13.67	13.65	14.16	14.13	14.19	0.5
8		Subtest 4	13.82	13.65	13.66	14.15	14.16	14.17	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

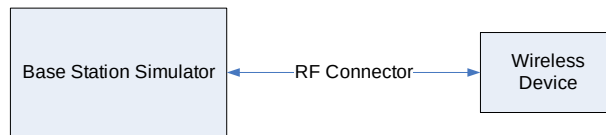


Figure 8-2
Power Measurement Setup

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8.3 LTE Conducted Powers

8.3.1 LTE Band 12

Table 8-13
LTE Band 12 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.30	0	0
	1	25	21.17		0
	1	49	21.08		0
	25	0	21.14	0-1	0
	25	12	21.22		0
	25	25	21.11		0
	50	0	21.09		0
16QAM	1	0	21.20	0-1	0
	1	25	21.14		0
	1	49	21.01		0
	25	0	20.66	0-2	0
	25	12	20.65		0
	25	25	20.61		0
	50	0	20.62		0
64QAM	1	0	21.11	0-2	0
	1	25	21.02		0
	1	49	20.85		0
	25	0	20.66	0-3	0
	25	12	20.63		0
	25	25	20.61		0
	50	0	20.63		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.

Table 8-14
LTE Band 12 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23035 (701.5 MHz)	23095 (707.5 MHz)	23155 (713.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	21.27	21.16	21.22	0	0
	1	12	21.25	21.16	21.21		0
	1	24	21.35	21.21	21.23		0
	12	0	21.20	21.16	21.37	0-1	0
	12	6	21.24	21.20	21.32		0
	12	13	21.28	21.21	21.33		0
	25	0	21.27	21.22	21.35		0
16QAM	1	0	21.40	21.19	21.33	0-1	0
	1	12	21.21	21.19	21.30		0
	1	24	21.44	21.42	21.40		0
	12	0	21.03	21.00	21.15	0-2	0
	12	6	21.02	21.04	21.14		0
	12	13	21.04	21.05	21.12		0
	25	0	21.06	21.03	21.09		0
64QAM	1	0	20.98	21.22	21.37	0-2	0
	1	12	21.29	20.95	21.28		0
	1	24	21.34	21.29	21.17		0
	12	0	21.04	21.08	21.14	0-3	0
	12	6	21.06	21.06	21.12		0
	12	13	21.12	21.07	21.22		0
	25	0	21.01	21.08	21.14		0

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Table 8-15
LTE Band 12 Conducted Powers Ant 1 - 3 MHz Bandwidth

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23025 (700.5 MHz)	23095 (707.5 MHz)	23165 (714.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	21.10	21.08	21.27	0	0
	1	7	21.16	21.18	21.33		0
	1	14	21.14	21.13	21.26		0
	8	0	21.21	21.19	21.38	0-1	0
	8	4	21.23	21.25	21.40		0
	8	7	21.30	21.25	21.40		0
	15	0	21.25	21.27	21.42		0
16QAM	1	0	21.33	21.23	21.28	0-1	0
	1	7	21.27	21.42	21.29		0
	1	14	21.03	21.40	21.17		0
	8	0	21.05	21.11	21.22	0-2	0
	8	4	21.10	21.13	21.22		0
	8	7	21.18	21.03	21.25		0
	15	0	21.14	21.11	21.23		0
64QAM	1	0	21.37	21.24	21.20	0-2	0
	1	7	21.49	21.49	21.48		0
	1	14	21.17	21.32	21.29		0
	8	0	21.03	21.11	21.20	0-3	0
	8	4	21.12	21.04	21.19		0
	8	7	21.18	21.08	21.25		0
	15	0	21.10	21.04	21.26		0

Table 8-16
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23017 (699.7 MHz)	23095 (707.5 MHz)	23173 (715.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	21.19	21.36	21.48	0	0
	1	2	21.14	21.34	21.45		0
	1	5	21.20	21.36	21.48		0
	3	0	21.27	21.27	21.37		0
	3	2	21.26	21.25	21.37		0
	3	3	21.25	21.28	21.38		0
	6	0	21.25	21.27	21.37	0-1	0
16QAM	1	0	21.25	21.21	21.47	0-1	0
	1	2	21.22	21.24	21.38		0
	1	5	21.36	21.15	21.41		0
	3	0	21.11	21.08	21.38		0
	3	2	21.12	21.11	21.35		0
	3	3	21.08	21.09	21.44		0
	6	0	21.04	21.05	21.26	0-2	0
64QAM	1	0	21.37	21.22	21.44	0-2	0
	1	2	21.22	21.26	21.38		0
	1	5	21.34	21.31	21.44		0
	3	0	21.02	21.15	21.29		0
	3	2	21.12	21.11	21.28		0
	3	3	21.07	21.04	21.34		0
	6	0	21.02	21.08	21.32	0-3	0

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Table 8-17
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.36	0	0
	1	25	18.26		0
	1	49	18.30		0
	25	0	18.22	0-1	0
	25	12	18.25		0
	25	25	18.24		0
16QAM	50	0	18.24	0-1	0
	1	0	18.48		0
	1	25	18.31		0
	1	49	18.40	0-2	0
	25	0	18.09		0
	25	12	18.09		0
	25	25	18.04		0
	50	0	18.03		0
	1	0	18.42	0-2	0
64QAM	1	25	18.30		0
	1	49	18.35		0
	25	0	18.05	0-3	0
	25	12	18.02		0
	25	25	18.05		0
	50	0	18.00		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.

Table 8-18
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23035 (701.5 MHz)	23095 (707.5 MHz)	23155 (713.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.14	18.20	18.08	0	0
	1	12	18.32	18.18	18.18		0
	1	24	18.38	18.19	18.41		0
	12	0	18.08	18.24	18.18	0-1	0
	12	6	18.24	18.20	18.30		0
	12	13	18.29	18.17	18.44		0
	25	0	18.28	18.19	18.33		0
16QAM	1	0	18.37	18.49	18.44	0-1	0
	1	12	18.50	18.45	18.47		0
	1	24	18.49	18.42	18.50		0
	12	0	18.17	18.35	18.28	0-2	0
	12	6	18.26	18.30	18.37		0
	12	13	18.28	18.27	18.45		0
	25	0	18.37	18.31	18.43		0
64QAM	1	0	18.24	18.41	18.38	0-2	0
	1	12	18.50	18.32	18.39		0
	1	24	18.45	18.32	18.50		0
	12	0	18.17	18.32	18.32	0-3	0
	12	6	18.35	18.31	18.38		0
	12	13	18.39	18.23	18.49		0
	25	0	18.31	18.24	18.38		0

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Table 8-19
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23025 (700.5 MHz)	23095 (707.5 MHz)	23165 (714.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.03	18.21	18.17	0	0
	1	7	18.11	18.24	18.38		0
	1	14	18.18	18.16	18.37		0
	8	0	18.13	18.32	18.38	0-1	0
	8	4	18.18	18.28	18.46		0
	8	7	18.33	18.25	18.50		0
	15	0	18.23	18.27	18.48		0
16QAM	1	0	18.27	18.40	18.50	0-1	0
	1	7	18.44	18.42	18.50		0
	1	14	18.41	18.49	18.48		0
	8	0	18.35	18.37	18.48	0-2	0
	8	4	18.31	18.44	18.46		0
	8	7	18.29	18.42	18.45		0
	15	0	18.28	18.45	18.43		0
64QAM	1	0	18.10	18.40	18.47	0-2	0
	1	7	18.47	18.34	18.50		0
	1	14	18.45	18.34	18.46		0
	8	0	18.18	18.44	18.44	0-3	0
	8	4	18.24	18.38	18.40		0
	8	7	18.34	18.33	18.38		0
	15	0	18.27	18.32	18.30		0

Table 8-20
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23017 (699.7 MHz)	23095 (707.5 MHz)	23173 (715.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.08	18.21	18.46	0	0
	1	2	18.03	18.19	18.50		0
	1	5	18.11	18.18	18.49		0
	3	0	18.17	18.26	18.41		0
	3	2	18.15	18.24	18.44		0
	3	3	18.15	18.25	18.37		0
	6	0	18.14	18.22	18.41	0-1	0
16QAM	1	0	18.27	18.39	18.47	0-1	0
	1	2	18.44	18.41	18.50		0
	1	5	18.41	18.40	18.47		0
	3	0	18.35	18.37	18.45		0
	3	2	18.31	18.44	18.46		0
	3	3	18.29	18.42	18.43		0
	6	0	18.28	18.45	18.40	0-2	0
64QAM	1	0	18.30	18.35	18.40	0-2	0
	1	2	18.43	18.37	18.50		0
	1	5	18.48	18.41	18.50		0
	3	0	18.35	18.42	18.49		0
	3	2	18.30	18.44	18.49		0
	3	3	18.34	18.50	18.47		0
	6	0	18.25	18.32	18.46	0-3	0

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Table 8-21
LTE Band 12 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.62	0	0
	1	25	19.47		0
	1	49	19.68		0
	25	0	19.51	0-1	0
	25	12	19.42		0
	25	25	19.49		0
16QAM	50	0	19.44	0-1	0
	1	0	19.61		0
	1	25	19.47		0
	1	49	19.70	0-2	0
	25	0	19.06		0
	25	12	19.02		0
64QAM	25	25	19.07	0-2	0
	50	0	19.00		0
	1	0	19.33	0-2	0
	1	25	19.17		0
	1	49	19.43	0-3	0
	25	0	19.03		0
	25	12	19.02		0
	25	25	19.06		0
	50	0	19.02		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.

Table 8-22
LTE Band 12 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23035 (701.5 MHz)	23095 (707.5 MHz)	23155 (713.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.70	19.56	19.75	0	0
	1	12	19.61	19.42	19.67		0
	1	24	19.61	19.56	19.66		0
	12	0	19.67	19.61	19.73	0-1	0
	12	6	19.68	19.52	19.72		0
	12	13	19.62	19.65	19.68		0
	25	0	19.71	19.58	19.75		0
16QAM	1	0	19.58	19.60	19.62	0-1	0
	1	12	19.80	19.68	19.77		0
	1	24	19.76	19.74	19.80		0
	12	0	19.36	19.23	19.37	0-2	0
	12	6	19.37	19.10	19.36		0
	12	13	19.25	19.20	19.29		0
	25	0	19.32	19.17	19.31		0
64QAM	1	0	19.70	19.55	19.80	0-2	0
	1	12	19.73	19.65	19.79		0
	1	24	19.78	19.78	19.72		0
	12	0	19.17	19.26	19.33	0-3	0
	12	6	19.26	19.11	19.23		0
	12	13	19.27	19.18	19.25		0
	25	0	19.31	19.11	19.25		0

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

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23025 (700.5 MHz)	23095 (707.5 MHz)	23165 (714.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.73	19.57	19.80	0	0
	1	7	19.67	19.53	19.71		0
	1	14	19.63	19.57	19.65		0
	8	0	19.67	19.63	19.76	0-1	0
	8	4	19.69	19.56	19.73		0
	8	7	19.74	19.65	19.73		0
	15	0	19.74	19.60	19.80		0
16QAM	1	0	19.79	19.70	19.80	0-1	0
	1	7	19.80	19.75	19.72		0
	1	14	19.72	19.68	19.79		0
	8	0	19.33	19.29	19.40	0-2	0
	8	4	19.40	19.24	19.34		0
	8	7	19.32	19.31	19.37		0
	15	0	19.39	19.24	19.35		0
64QAM	1	0	19.79	19.59	19.75	0-2	0
	1	7	19.60	19.60	19.79		0
	1	14	19.73	19.56	19.73		0
	8	0	19.30	19.29	19.36	0-3	0
	8	4	19.33	19.19	19.34		0
	8	7	19.28	19.31	19.31		0
	15	0	19.40	19.26	19.47		0

Table 8-24
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23017 (699.7 MHz)	23095 (707.5 MHz)	23173 (715.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.79	19.63	19.74	0	0
	1	2	19.72	19.62	19.78		0
	1	5	19.80	19.65	19.80		0
	3	0	19.68	19.63	19.71		0
	3	2	19.67	19.62	19.71		0
	3	3	19.66	19.64	19.72		0
	6	0	19.67	19.60	19.74	0-1	0
16QAM	1	0	19.75	19.80	19.79	0-1	0
	1	2	19.72	19.79	19.72		0
	1	5	19.80	19.79	19.80		0
	3	0	19.38	19.34	19.59		0
	3	2	19.41	19.27	19.52		0
	3	3	19.42	19.28	19.39		0
	6	0	19.27	19.18	19.43	0-2	0
64QAM	1	0	19.70	19.74	19.80	0-2	0
	1	2	19.75	19.56	19.75		0
	1	5	19.80	19.76	19.74		0
	3	0	19.39	19.25	19.40		0
	3	2	19.48	19.27	19.49		0
	3	3	19.39	19.25	19.38		0
	6	0	19.37	19.28	19.40	0-3	0

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Table 8-25
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	16.53	0	0
	1	25	16.34		0
	1	49	16.50		0
	25	0	16.47	0-1	0
	25	12	16.37		0
	25	25	16.46		0
16QAM	50	0	16.40	0-1	0
	1	0	16.48		0
	1	25	16.25		0
	1	49	16.53	0-2	0
	25	0	16.26		0
	25	12	16.15		0
64QAM	25	25	16.25	0-2	0
	50	0	16.19		0
	1	0	16.60	0-3	0
	1	25	16.47		0
	1	49	16.70		0
	25	0	16.27	0-3	0
	25	12	16.16		0
	25	25	16.38		0
	50	0	16.18		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.

Table 8-26
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23035 (701.5 MHz)	23095 (707.5 MHz)	23155 (713.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.67	16.63	16.64	0	0
	1	12	16.70	16.59	16.72		0
	1	24	16.66	16.48	16.79		0
	12	0	16.82	16.71	16.71	0-1	0
	12	6	16.78	16.62	16.71		0
	12	13	16.72	16.58	16.83		0
	25	0	16.78	16.61	16.76		0
16QAM	1	0	16.92	16.81	16.99	0-1	0
	1	12	16.97	16.89	16.99		0
	1	24	16.99	16.86	17.00		0
	12	0	16.86	16.77	16.77	0-2	0
	12	6	16.84	16.66	16.77		0
	12	13	16.80	16.64	16.87		0
	25	0	16.66	16.64	16.76		0
64QAM	1	0	16.99	16.89	16.92	0-2	0
	1	12	17.00	16.96	16.88		0
	1	24	16.91	16.72	16.94		0
	12	0	16.88	16.77	16.70	0-3	0
	12	6	16.88	16.65	16.72		0
	12	13	16.77	16.59	16.88		0
	25	0	16.71	16.68	16.76		0

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Table 8-27
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23025 (700.5 MHz)	23095 (707.5 MHz)	23165 (714.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.69	16.63	16.64	0	0
	1	7	16.72	16.59	16.72		0
	1	14	16.68	16.48	16.79		0
	8	0	16.84	16.71	16.71	0-1	0
	8	4	16.80	16.62	16.71		0
	8	7	16.74	16.58	16.83		0
	15	0	16.80	16.61	16.76		0
16QAM	1	0	16.94	16.66	16.99	0-1	0
	1	7	16.99	16.89	16.91		0
	1	14	16.89	16.86	16.91		0
	8	0	16.85	16.77	16.77	0-2	0
	8	4	16.83	16.65	16.77		0
	8	7	16.79	16.63	16.87		0
	15	0	16.81	16.63	16.78		0
64QAM	1	0	16.98	16.88	16.94	0-2	0
	1	7	16.99	16.95	16.89		0
	1	14	16.90	16.71	16.96		0
	8	0	16.87	16.76	16.72	0-3	0
	8	4	16.87	16.64	16.74		0
	8	7	16.76	16.58	16.90		0
	15	0	16.83	16.67	16.78		0

Table 8-28
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23017 (699.7 MHz)	23095 (707.5 MHz)	23173 (715.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.61	16.54	16.55	0	0
	1	2	16.64	16.50	16.63		0
	1	5	16.60	16.39	16.70		0
	3	0	16.76	16.62	16.62		0
	3	2	16.72	16.53	16.62		0
	3	3	16.66	16.49	16.74		0
	6	0	16.72	16.52	16.67	0-1	0
16QAM	1	0	16.86	17.00	16.90	0-1	0
	1	2	16.91	16.80	16.95		0
	1	5	16.93	16.77	16.99		0
	3	0	16.74	16.68	16.69		0
	3	2	16.72	16.56	16.69		0
	3	3	16.68	16.54	16.79		0
	6	0	16.70	16.54	16.70	0-2	0
64QAM	1	0	16.87	16.80	16.86	0-2	0
	1	2	16.95	16.87	16.95		0
	1	5	16.79	16.63	16.88		0
	3	0	16.76	16.68	16.64		0
	3	2	16.76	16.56	16.66		0
	3	3	16.65	16.50	16.82		0
	6	0	16.72	16.59	16.70	0-3	0

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LTE Band 13

Table 8-29
LTE Band 13 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz) Conducted Power [dBm]		
QPSK	1	0	21.14	0	0
	1	25	20.90		0
	1	49	20.87		0
	25	0	20.70	0-1	0
	25	12	20.82		0
	25	25	20.83		0
	50	0	20.81		0
16QAM	1	0	21.07	0-1	0
	1	25	20.72		0
	1	49	20.99		0
	25	0	20.50	0-2	0
	25	12	20.57		0
	25	25	20.58		0
	50	0	20.59		0
64QAM	1	0	20.99	0-2	0
	1	25	20.74		0
	1	49	20.76		0
	25	0	20.50	0-3	0
	25	12	20.60		0
	25	25	20.67		0
	50	0	20.57		0

Table 8-30
LTE Band 13 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz) Conducted Power [dBm]		
QPSK	1	0	20.76	0	0
	1	12	20.80		0
	1	24	20.97		0
	12	0	20.91	0-1	0
	12	6	20.92		0
	12	13	20.92		0
	25	0	20.93		0
16QAM	1	0	20.94	0-1	0
	1	12	20.88		0
	1	24	21.16		0
	12	0	20.70	0-2	0
	12	6	20.73		0
	12	13	20.73		0
	25	0	20.73		0
64QAM	1	0	20.81	0-2	0
	1	12	20.92		0
	1	24	21.12		0
	12	0	20.64	0-3	0
	12	6	20.75		0
	12	13	20.76		0
	25	0	20.69		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.

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Table 8-31
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.29	0	0
	1	25	18.03		0
	1	49	18.11		0
	25	0	17.97	0-1	0
	25	12	17.94		0
	25	25	18.12		0
16QAM	50	0	18.04	0-1	0
	1	0	18.30		0
	1	25	18.16		0
	1	49	18.10	0-2	0
	25	0	17.67		0
	25	12	17.71		0
64QAM	25	25	17.92	0-2	0
	50	0	17.72		0
	1	0	18.23	0-2	0
	1	25	17.93		0
	1	49	18.15		0
	25	0	17.51	0-3	0
	25	12	17.52		0
	25	25	17.63		0
	50	0	17.50		0

Table 8-32
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.07	0	0
	1	12	17.98		0
	1	24	18.14		0
	12	0	17.83	0-1	0
	12	6	17.90		0
	12	13	17.95		0
16QAM	25	0	17.98	0-1	0
	1	0	18.15		0
	1	12	18.18		0
	1	24	18.25	0-2	0
	12	0	17.91		0
	12	6	18.02		0
64QAM	12	13	17.99	0-2	0
	25	0	18.00		0
	1	0	18.11	0-2	0
	1	12	18.03		0
	1	24	18.27		0
	12	0	17.61	0-3	0
	12	6	17.66		0
	12	13	17.77		0
	25	0	17.76		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.

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Table 8-33
LTE Band 13 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.63	0	0
	1	25	19.40		0
	1	49	19.41		0
	25	0	19.30	0-1	0
	25	12	19.45		0
	25	25	19.42		0
16QAM	50	0	19.43	0-1	0
	1	0	19.91		0
	1	25	19.70		0
	1	49	19.70	0-2	0
	25	0	19.31		0
	25	12	19.41		0
64QAM	25	25	19.44	0-2	0
	50	0	19.32		0
	1	0	19.71	0-2	0
	1	25	19.42		0
	1	49	19.31		0
	25	0	19.30	0-3	0
	25	12	19.42		0
	25	25	19.30		0
	50	0	19.31		0

Table 8-34
LTE Band 13 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.33	0	0
	1	12	19.42		0
	1	24	19.52		0
	12	0	19.47	0-1	0
	12	6	19.54		0
	12	13	19.51		0
16QAM	25	0	19.47	0-1	0
	1	0	19.49		0
	1	12	19.55		0
	1	24	19.64	0-2	0
	12	0	19.34		0
	12	6	19.41		0
64QAM	12	13	19.36	0-2	0
	25	0	19.34		0
	1	0	19.51	0-2	0
	1	12	19.49		0
	1	24	19.52		0
	12	0	19.31	0-3	0
	12	6	19.32		0
	12	13	19.39		0
	25	0	19.35		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.

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Table 8-35
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.30	0	0
	1	25	17.15		0
	1	49	17.25		0
	25	0	17.14	0-1	0
	25	12	17.21		0
	25	25	17.26		0
	50	0	17.23		0
16QAM	1	0	17.28	0-1	0
	1	25	17.09		0
	1	49	17.03		0
	25	0	16.79	0-2	0
	25	12	17.00		0
	25	25	16.97		0
	50	0	16.91		0
64QAM	1	0	17.30	0-2	0
	1	25	17.17		0
	1	49	17.12		0
	25	0	16.86	0-3	0
	25	12	17.01		0
	25	25	16.97		0
	50	0	16.93		0

Table 8-36
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	16.84	0	0
	1	12	17.02		0
	1	24	17.11		0
	12	0	17.00	0-1	0
	12	6	17.08		0
	12	13	17.15		0
	25	0	17.04		0
16QAM	1	0	17.10	0-1	0
	1	12	17.20		0
	1	24	17.30		0
	12	0	17.06	0-2	0
	12	6	17.15		0
	12	13	17.22		0
	25	0	17.08		0
64QAM	1	0	16.96	0-2	0
	1	12	17.22		0
	1	24	17.30		0
	12	0	16.97	0-3	0
	12	6	17.08		0
	12	13	17.16		0
	25	0	17.03		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.

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LTE Band 26

Table 8-37
LTE Band 26 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.46	20.21	20.44	0	0
	1	25	20.49	20.23	20.46		0
	1	49	20.37	20.32	20.58		0
	25	0	20.52	20.24	20.54	0-1	0
	25	12	20.53	20.30	20.51		0
	25	25	20.47	20.32	20.60		0
16QAM	50	0	20.55	20.31	20.54	0-1	0
	1	0	20.59	20.30	20.56		0
	1	25	20.56	20.26	20.59		0
	1	49	20.48	20.35	20.60	0-2	0
	25	0	20.31	20.03	20.31		0
	25	12	20.32	20.12	20.29		0
64QAM	25	25	20.29	20.11	20.35	0-2	0
	50	0	20.32	20.11	20.31		0
	1	0	20.47	20.21	20.53		0-2
	1	25	20.39	20.16	20.51	0	
	1	49	20.19	20.20	20.60	0	
	25	0	20.28	19.98	20.22	0-3	0
25	12	20.27	20.07	20.15	0		
25	25	20.19	20.06	20.23	0		
	50	0	20.27	19.96	20.20		0

Table 8-38
LTE Band 26 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 26 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26715 (816.5 MHz)	26865 (831.5 MHz)	27015 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.10	20.10	20.38	0	0
	1	12	20.09	19.95	20.22		0
	1	24	20.04	19.95	20.31		0
	12	0	20.08	20.04	20.25	0-1	0
	12	6	20.05	19.98	20.14		0
	12	13	20.07	19.96	20.20		0
	25	0	20.08	20.01	20.14		0
16QAM	1	0	20.60	20.34	20.60	0-1	0
	1	12	20.44	20.14	20.55		0
	1	24	20.48	20.17	20.52		0
	12	0	20.11	20.08	20.34	0-2	0
	12	6	20.09	20.03	20.24		0
	12	13	20.11	20.02	20.23		0
	25	0	20.09	20.00	20.16		0
64QAM	1	0	20.59	20.24	20.60	0-2	0
	1	12	20.05	19.94	20.32		0
	1	24	20.57	20.00	20.57		0
	12	0	20.14	20.13	20.33	0-3	0
	12	6	20.11	20.06	20.22		0
	12	13	20.12	20.02	20.25		0
	25	0	20.12	20.01	20.19		0

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Table 8-39
LTE Band 26 Conducted Powers Ant 1 - 3 MHz Bandwidth

LTE Band 26 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26705 (815.5 MHz)	26865 (831.5 MHz)	27025 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.28	19.97	20.12	0	0
	1	7	20.14	19.99	20.24		0
	1	14	20.06	19.90	20.22		0
	8	0	20.26	20.09	20.28	0-1	0
	8	4	20.18	20.04	20.30		0
	8	7	20.17	20.03	20.35		0
	15	0	20.20	20.07	20.33		0
16QAM	1	0	20.49	20.29	20.47	0-1	0
	1	7	20.32	20.25	20.60		0
	1	14	20.40	20.26	20.55		0
	8	0	20.28	20.15	20.31	0-2	0
	8	4	20.18	20.12	20.29		0
	8	7	20.16	20.07	20.39		0
	15	0	20.15	20.13	20.32		0
64QAM	1	0	20.58	20.33	20.50	0-2	0
	1	7	20.29	20.47	20.55		0
	1	14	20.20	20.35	20.59		0
	8	0	20.25	20.09	20.30	0-3	0
	8	4	20.20	20.08	20.25		0
	8	7	20.19	20.06	20.33		0
	15	0	20.24	20.03	20.29		0

Table 8-40
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26697 (814.7 MHz)	26865 (831.5 MHz)	27033 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.22	20.04	20.27	0	0
	1	2	20.38	20.12	20.30		0
	1	5	20.26	20.11	20.32		0
	3	0	20.31	20.06	20.39		0
	3	2	20.23	20.03	20.37		0
	3	3	20.22	20.04	20.38		0
	6	0	20.23	20.05	20.36	0-1	0
16QAM	1	0	20.36	20.12	20.40	0-1	0
	1	2	20.57	20.36	20.55		0
	1	5	20.43	20.31	20.49		0
	3	0	20.51	20.19	20.55		0
	3	2	20.43	20.15	20.49		0
	3	3	20.43	20.18	20.40		0
	6	0	20.39	20.11	20.38	0-2	0
64QAM	1	0	20.30	20.39	20.56	0-2	0
	1	2	20.57	20.41	20.55		0
	1	5	20.51	20.38	20.54		0
	3	0	20.44	20.22	20.55		0
	3	2	20.44	20.13	20.53		0
	3	3	20.40	20.21	20.53		0
	6	0	20.27	20.18	20.35	0-3	0

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Table 8-41
LTE Band 26 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.87	19.69	20.14	0	0
	1	25	19.80	19.58	20.04		0
	1	49	19.97	19.61	20.13		0
	25	0	19.68	19.62	20.02	0-1	0
	25	12	19.69	19.64	20.03		0
	25	25	19.80	19.54	20.14		0
	50	0	19.78	19.59	20.06		0
16QAM	1	0	20.24	20.10	20.30	0-1	0
	1	25	20.16	20.05	19.99		0
	1	49	20.30	20.06	19.96		0
	25	0	19.69	19.68	20.14	0-2	0
	25	12	19.71	19.69	20.16		0
	25	25	19.86	19.60	20.18		0
	50	0	19.79	19.65	20.16		0
64QAM	1	0	20.12	19.98	20.04	0-2	0
	1	25	20.04	19.87	20.05		0
	1	49	20.29	19.89	19.96		0
	25	0	19.70	19.70	19.82	0-3	0
	25	12	19.71	19.68	19.85		0
	25	25	19.85	19.60	19.84		0
	50	0	19.78	19.63	19.89		0

Table 8-42
LTE Band 26 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 26 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26715 (816.5 MHz)	26865 (831.5 MHz)	27015 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.19	20.04	20.13	0	0
	1	12	20.02	19.97	20.14		0
	1	24	20.04	19.87	20.10		0
	12	0	20.09	20.07	20.17	0-1	0
	12	6	20.11	20.08	20.23		0
	12	13	20.00	20.01	20.24		0
	25	0	20.16	20.04	20.26		0
16QAM	1	0	20.30	20.23	20.28	0-1	0
	1	12	20.16	20.12	20.30		0
	1	24	20.24	20.09	20.24		0
	12	0	19.73	19.66	19.77	0-2	0
	12	6	19.65	19.68	19.82		0
	12	13	19.58	19.53	19.86		0
	25	0	19.63	19.57	19.78		0
64QAM	1	0	19.79	19.72	19.95	0-2	0
	1	12	19.56	19.68	19.64		0
	1	24	19.57	19.88	19.63		0
	12	0	19.42	19.68	19.73	0-3	0
	12	6	19.42	19.61	19.67		0
	12	13	19.31	19.45	19.54		0
	25	0	19.41	19.51	19.61		0

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Table 8-43
LTE Band 26 Conducted Powers Ant 3 - 3 MHz Bandwidth

LTE Band 26 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26705 (815.5 MHz)	26865 (831.5 MHz)	27025 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.25	20.06	20.28	0	0
	1	7	20.15	20.03	20.30		0
	1	14	20.03	19.94	20.18		0
	8	0	20.15	20.06	20.30	0-1	0
	8	4	20.17	20.01	20.29		0
	8	7	20.13	19.98	20.22		0
	15	0	20.20	20.02	20.30		0
16QAM	1	0	20.30	20.20	20.25	0-1	0
	1	7	20.27	20.07	20.30		0
	1	14	20.15	20.11	20.29		0
	8	0	19.88	19.75	19.96	0-2	0
	8	4	19.78	19.69	19.89		0
	8	7	19.66	19.60	19.84		0
	15	0	19.78	19.64	19.90		0
64QAM	1	0	19.90	19.81	20.03	0-2	0
	1	7	19.70	19.93	20.05		0
	1	14	19.58	19.79	19.81		0
	8	0	19.70	19.68	19.64	0-3	0
	8	4	19.63	19.66	19.56		0
	8	7	19.59	19.66	19.53		0
	15	0	19.58	19.61	19.55		0

Table 8-44
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26697 (814.7 MHz)	26865 (831.5 MHz)	27033 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.30	20.10	20.30	0	0
	1	2	20.28	20.06	20.28		0
	1	5	20.27	20.05	20.29		0
	3	0	20.17	20.07	20.25		0
	3	2	20.18	19.98	20.23		0
	3	3	20.29	19.97	20.24		0
	6	0	20.18	20.01	20.22	0-1	0
16QAM	1	0	20.30	20.30	20.30	0-1	0
	1	2	20.24	20.24	20.29		0
	1	5	20.29	20.18	20.22		0
	3	0	20.01	19.88	20.09		0
	3	2	19.98	19.85	19.97		0
	3	3	19.94	19.75	19.94		0
	6	0	19.93	19.74	19.91	0-2	0
64QAM	1	0	19.56	20.16	19.90	0-2	0
	1	2	20.10	20.08	19.73		0
	1	5	19.92	20.11	19.84		0
	3	0	19.76	19.77	19.81		0
	3	2	19.77	19.59	19.74		0
	3	3	19.76	19.77	19.78		0
	6	0	19.62	19.70	19.51	0-3	0

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LTE Band 5

Table 8-45
LTE Band 5 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.40	0	0
	1	25	20.38		0
	1	49	20.58		0
	25	0	20.39	0-1	0
	25	12	20.42		0
	25	25	20.53		0
	50	0	20.50		0
	50	0	20.50		0
16QAM	1	0	20.43	0-1	0
	1	25	20.40		0
	1	49	20.50		0
	25	0	19.93	0-2	0
	25	12	19.96		0
	25	25	20.10		0
	50	0	19.98		0
	50	0	20.10		0
64QAM	1	0	20.05	0-2	0
	1	25	20.05		0
	1	49	20.33		0
	25	0	19.90	0-3	0
	25	12	19.94		0
	25	25	20.06		0
	50	0	19.98		0
	50	0	19.98		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 8-46
LTE Band 5 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20425 (826.5 MHz)	20525 (836.5 MHz)	20625 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.40	20.42	20.54	0	0
	1	12	20.31	20.53	20.57		0
	1	24	20.28	20.53	20.58		0
	12	0	20.37	20.43	20.55	0-1	0
	12	6	20.39	20.42	20.57		0
	12	13	20.37	20.46	20.59		0
	25	0	20.38	20.50	20.59		0
16QAM	1	0	20.52	20.57	20.60	0-1	0
	1	12	20.44	20.59	20.56		0
	1	24	20.18	20.39	20.59		0
	12	0	20.15	20.29	20.41	0-2	0
	12	6	20.18	20.27	20.48		0
	12	13	20.17	20.25	20.46		0
	25	0	20.13	20.26	20.48		0
64QAM	1	0	19.97	20.01	20.49	0-2	0
	1	12	19.98	20.30	20.38		0
	1	24	19.81	20.33	20.30		0
	12	0	19.92	20.03	20.08	0-3	0
	12	6	19.93	19.97	20.17		0
	12	13	19.93	20.00	20.19		0
	25	0	19.88	20.06	20.19		0

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Table 8-47
LTE Band 5 Conducted Powers Ant 1 - 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.06	20.12	20.35	0	0
	1	7	20.05	20.21	20.38		0
	1	14	20.02	20.13	20.32		0
	8	0	20.21	20.22	20.46	0-1	0
	8	4	20.12	20.25	20.45		0
	8	7	20.14	20.25	20.44		0
	15	0	20.15	20.28	20.48		0
16QAM	1	0	20.13	20.39	20.59	0-1	0
	1	7	19.93	20.22	20.35		0
	1	14	20.06	20.41	20.51		0
	8	0	20.02	20.06	20.28	0-2	0
	8	4	19.91	20.10	20.24		0
	8	7	19.92	20.07	20.22		0
	15	0	19.96	20.11	20.26		0
64QAM	1	0	20.10	19.62	20.36	0-2	0
	1	7	19.99	19.87	20.15		0
	1	14	19.97	19.87	20.10		0
	8	0	19.78	19.79	20.01	0-3	0
	8	4	19.68	19.85	19.97		0
	8	7	19.64	19.82	19.98		0
	15	0	19.63	19.82	19.98		0

Table 8-48
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.34	20.16	20.38	0	0
	1	2	20.31	20.15	20.36		0
	1	5	20.25	20.21	20.38		0
	3	0	20.24	20.25	20.45		0
	3	2	20.25	20.31	20.43		0
	3	3	20.25	20.29	20.43		0
	6	0	20.24	20.29	20.44	0-1	0
16QAM	1	0	20.25	20.29	20.56	0-1	0
	1	2	20.34	20.32	20.54		0
	1	5	20.09	20.35	20.47		0
	3	0	20.11	20.25	20.38		0
	3	2	20.19	20.37	20.39		0
	3	3	20.17	20.28	20.38		0
	6	0	20.09	20.17	20.31	0-2	0
64QAM	1	0	19.94	20.58	20.45	0-2	0
	1	2	20.21	20.46	20.52		0
	1	5	19.98	20.59	20.44		0
	3	0	20.07	20.18	20.53		0
	3	2	20.12	20.23	20.47		0
	3	3	20.03	20.15	20.39		0
	6	0	20.08	20.20	20.21	0-3	0

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Table 8-49
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.46	0	0
	1	25	17.53		0
	1	49	17.58		0
	25	0	17.37	0-1	0
	25	12	17.40		0
	25	25	17.45		0
16QAM	50	0	17.44	0-1	0
	1	0	17.43		0
	1	25	17.50		0
	1	49	17.55	0-2	0
	25	0	17.15		0
	25	12	17.16		0
64QAM	25	25	17.20	0-2	0
	50	0	17.19		0
	1	0	17.30	0-2	0
	1	25	17.45		0
	1	49	17.46	0-3	0
	25	0	16.95		0
	25	12	16.98		0
	25	25	17.00		0
	50	0	16.99		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 8-50
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20425 (826.5 MHz)	20525 (836.5 MHz)	20625 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.29	17.39	17.41	0	0
	1	12	17.21	17.35	17.35		0
	1	24	17.31	17.43	17.31		0
	12	0	17.19	17.32	17.33	0-1	0
	12	6	17.15	17.55	17.21		0
	12	13	17.21	17.34	17.19		0
	25	0	17.18	17.40	17.30		0
16QAM	1	0	17.31	17.51	17.39	0-1	0
	1	12	17.29	17.49	17.29		0
	1	24	17.25	17.43	17.25		0
	12	0	17.19	17.25	17.31	0-2	0
	12	6	17.32	17.16	17.33		0
	12	13	17.30	17.21	17.24		0
	25	0	17.09	17.19	17.33		0
64QAM	1	0	17.11	17.21	17.28	0-2	0
	1	12	17.21	17.25	17.36		0
	1	24	17.15	17.31	17.35		0
	12	0	17.26	17.15	17.33	0-3	0
	12	6	17.13	17.09	17.39		0
	12	13	17.19	17.05	17.35		0
	25	0	17.18	17.01	17.21		0

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Table 8-51
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.41	17.39	17.31	0	0
	1	7	17.39	17.28	17.43		0
	1	14	17.44	17.31	17.46		0
	8	0	17.32	17.32	17.29	0-1	0
	8	4	17.29	17.30	17.41		0
	8	7	17.31	17.35	17.28		0
	15	0	17.35	17.39	17.31		0
16QAM	1	0	17.28	17.24	17.33	0-1	0
	1	7	17.31	17.29	17.24		0
	1	14	17.35	17.31	17.35		0
	8	0	17.33	17.35	17.36	0-2	0
	8	4	17.39	17.36	17.31		0
	8	7	17.29	17.33	17.39		0
	15	0	17.31	17.28	17.41		0
64QAM	1	0	17.30	17.25	17.45	0-2	0
	1	7	17.35	17.21	17.49		0
	1	14	17.37	17.30	17.26		0
	8	0	17.35	17.28	17.39	0-3	0
	8	4	17.33	17.25	17.33		0
	8	7	17.31	17.29	17.45		0
	15	0	17.25	17.33	17.50		0

Table 8-52
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.27	17.31	17.23	0	0
	1	2	17.21	17.25	17.11		0
	1	5	17.19	17.29	17.15		0
	3	0	17.23	17.33	17.20		0
	3	2	17.13	17.18	17.16		0
	3	3	17.22	17.15	17.19		0
	6	0	17.25	17.16	17.23	0-1	0
16QAM	1	0	17.19	17.25	17.21	0-1	0
	1	2	17.28	17.21	17.15		0
	1	5	17.13	17.20	17.11		0
	3	0	17.09	17.23	17.09		0
	3	2	17.01	17.10	17.13		0
	3	3	17.11	17.15	17.05	0	
6	0	17.10	17.11	17.01	0-2	0	
64QAM	1	0	17.17	17.14	17.15	0-2	0
	1	2	17.09	17.16	17.16		0
	1	5	17.21	17.21	17.11		0
	3	0	17.08	17.08	17.20		0
	3	2	17.13	17.02	17.09		0
	3	3	17.10	17.06	17.15		0
	6	0	17.09	17.01	17.11	0-3	0

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Table 8-53
LTE Band 5 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.14	0	0
	1	25	20.18		0
	1	49	20.22		0
	25	0	20.07	0-1	0
	25	12	20.13		0
	25	25	20.17		0
16QAM	50	0	19.88	0-1	0
	1	0	20.25		0
	1	25	20.16		0
	1	49	20.30	0-2	0
	25	0	19.82		0
	25	12	19.86		0
64QAM	25	25	19.89	0-2	0
	50	0	19.85		0
	1	0	20.24	0-2	0
	1	25	20.27		0
	1	49	20.30	0-3	0
	25	0	19.84		0
	25	12	19.88		0
	25	25	19.93		0
	50	0	19.89		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 8-54
LTE Band 5 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20425 (826.5 MHz)	20525 (836.5 MHz)	20625 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.15	19.88	20.18	0	0
	1	12	19.97	19.95	20.14		0
	1	24	19.86	20.04	20.11		0
	12	0	20.21	20.09	20.15	0-1	0
	12	6	20.13	20.03	20.20		0
	12	13	20.09	20.02	20.22		0
	25	0	20.15	20.03	20.24		0
16QAM	1	0	20.30	20.01	20.29	0-1	0
	1	12	20.14	19.99	20.28		0
	1	24	20.10	20.05	20.30		0
	12	0	19.75	19.55	19.76	0-2	0
	12	6	19.74	19.60	19.83		0
	12	13	19.66	19.55	19.83		0
	25	0	19.71	19.52	19.88		0
64QAM	1	0	19.82	20.04	20.25	0-2	0
	1	12	20.23	19.93	20.30		0
	1	24	19.93	20.13	20.30		0
	12	0	19.93	19.50	19.79	0-3	0
	12	6	19.77	19.53	19.78		0
	12	13	19.72	19.54	19.74		0
	25	0	19.83	19.54	19.76		0

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Table 8-55
LTE Band 5 Conducted Powers Ant 3 - 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.28	20.01	20.25	0	0
	1	7	20.27	20.07	20.26		0
	1	14	20.16	20.03	20.15		0
	8	0	20.30	20.09	20.27	0-1	0
	8	4	20.21	20.10	20.29		0
	8	7	20.16	20.09	20.19		0
	15	0	20.24	20.06	20.30		0
16QAM	1	0	20.20	20.05	20.25	0-1	0
	1	7	20.23	19.99	20.25		0
	1	14	20.21	19.99	20.26		0
	8	0	19.92	19.62	19.84	0-2	0
	8	4	19.84	19.60	19.83		0
	8	7	19.80	19.71	19.73		0
	15	0	19.82	19.61	19.83		0
64QAM	1	0	20.24	19.73	20.12	0-2	0
	1	7	20.30	20.02	20.30		0
	1	14	20.09	20.04	20.15		0
	8	0	19.96	19.64	19.86	0-3	0
	8	4	19.81	19.60	19.90		0
	8	7	19.75	19.63	19.75		0
	15	0	19.83	19.70	19.93		0

Table 8-56
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.24	20.13	20.28	0	0
	1	2	20.20	20.12	20.18		0
	1	5	20.15	20.15	20.20		0
	3	0	20.30	20.06	20.21		0
	3	2	20.27	20.04	20.20		0
	3	3	20.28	20.05	20.19		0
	6	0	20.30	20.07	20.21	0-1	0
16QAM	1	0	20.29	20.22	20.30	0-1	0
	1	2	20.30	20.19	20.20		0
	1	5	20.24	20.30	20.26		0
	3	0	20.06	19.77	19.84		0
	3	2	19.94	19.63	19.94		0
	3	3	19.96	19.76	19.89		0
	6	0	19.93	19.72	19.80	0-2	0
64QAM	1	0	20.28	20.18	20.28	0-2	0
	1	2	20.30	20.16	20.27		0
	1	5	20.29	20.27	20.30		0
	3	0	19.96	19.66	19.98		0
	3	2	20.05	19.77	19.90		0
	3	3	20.00	19.73	19.91		0
	6	0	19.97	19.72	19.95	0-3	0

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Table 8-57
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.17	0	0
	1	25	17.08		0
	1	49	17.16		0
	25	0	17.08	0-1	1
	25	12	17.15		1
	25	25	17.17		1
16QAM	50	0	17.15	0-1	1
	1	0	17.15		1
	1	25	17.07		1
	1	49	17.06	0-2	1
	25	0	16.90		2
	25	12	16.91		2
64QAM	25	25	16.96	0-2	2
	50	0	16.92		2
	1	0	17.30	0-2	2
	1	25	17.22		2
	1	49	17.21	0-3	2
	25	0	16.95		3
	25	12	16.97		3
	25	25	16.99		3
	50	0	16.91		3

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 8-58
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20425 (826.5 MHz)	20525 (836.5 MHz)	20625 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.93	16.77	16.88	0	0
	1	12	16.94	16.72	16.87		0
	1	24	17.00	16.73	16.83		0
	12	0	17.00	16.91	16.94	0-1	0
	12	6	17.00	16.86	16.93		0
	12	13	17.04	16.81	16.88		0
	25	0	17.04	16.87	16.96		0
16QAM	1	0	17.22	17.20	17.06	0-1	0
	1	12	17.16	17.29	17.19		0
	1	24	17.28	17.25	17.08		0
	12	0	17.05	17.21	16.98	0-2	0
	12	6	17.04	17.16	16.97		0
	12	13	17.09	17.13	16.92		0
	25	0	17.08	17.15	17.08		0
64QAM	1	0	17.24	17.28	17.29	0-2	0
	1	12	17.24	17.28	17.24		0
	1	24	17.23	17.27	17.05		0
	12	0	17.06	17.20	17.08	0-3	0
	12	6	17.10	17.17	17.05		0
	12	13	17.13	17.13	17.02		0
	25	0	17.14	17.18	17.07		0

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Table 8-59
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.94	16.80	16.90	0	0
	1	7	16.95	16.75	16.89		0
	1	14	17.01	16.76	16.85		0
	8	0	17.01	16.94	16.96	0-1	0
	8	4	17.01	16.89	16.95		0
	8	7	17.05	16.84	16.90		0
	15	0	17.05	16.90	16.98		0
16QAM	1	0	17.23	17.23	17.08	0-1	0
	1	7	17.17	17.23	17.21		0
	1	14	17.29	17.28	17.10		0
	8	0	17.06	17.24	17.00	0-2	0
	8	4	17.05	17.19	16.95		0
	8	7	17.10	17.16	16.90		0
	15	0	17.09	17.20	17.06		0
64QAM	1	0	17.25	17.29	17.25	0-2	0
	1	7	17.25	17.28	17.22		0
	1	14	17.30	17.23	17.03		0
	8	0	17.07	17.25	17.06	0-3	0
	8	4	17.11	17.22	17.03		0
	8	7	17.14	17.18	17.00		0
	15	0	17.15	17.23	17.05		0

Table 8-60
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.98	16.85	16.98	0	0
	1	2	16.99	16.80	16.97		0
	1	5	17.05	16.81	16.93		0
	3	0	17.05	16.99	17.04		0
	3	2	17.05	16.94	17.03		0
	3	3	17.09	16.89	16.98		0
	6	0	17.09	16.95	17.06	0-1	0
16QAM	1	0	17.27	17.28	17.16	0-1	0
	1	2	17.21	17.22	17.29		0
	1	5	17.30	17.28	17.18		0
	3	0	17.10	17.02	17.08		0
	3	2	17.09	16.97	17.03		0
	3	3	17.12	16.94	16.98		0
	6	0	17.11	16.98	17.07	0-2	0
64QAM	1	0	17.27	17.28	17.27	0-2	0
	1	2	17.27	17.21	17.23		0
	1	5	17.23	17.21	17.04		0
	3	0	17.09	17.03	17.07		0
	3	2	17.13	17.00	17.04		0
	3	3	17.16	16.96	17.01		0
	6	0	17.17	17.01	17.06	0-3	0

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8.3.5

LTE Band 4

Table 8-61
LTE Band 4 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz) Conducted Power [dBm]		
QPSK	1	0	14.36	0	0
	1	50	14.35		0
	1	99	14.12		0
	50	0	14.45	0-1	0
	50	25	14.44		0
	50	50	14.30		0
	100	0	14.35		0
16QAM	1	0	14.25	0-1	0
	1	50	14.23		0
	1	99	14.02		0
	50	0	13.87	0-2	0
	50	25	13.91		0
	50	50	13.83		0
	100	0	13.85		0
64QAM	1	0	14.33	0-2	0
	1	50	14.31		0
	1	99	14.03		0
	50	0	13.90	0-3	0
	50	25	13.93		0
	50	50	13.85		0
	100	0	13.91		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 8-62
LTE Band 4 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.28	14.45	14.05	0	0
	1	36	14.31	14.33	13.99		0
	1	74	14.19	14.15	13.90		0
	36	0	14.42	14.30	14.19	0-1	0
	36	18	14.36	14.26	14.08		0
	36	37	14.29	14.21	14.01		0
	75	0	14.34	14.26	14.07		0
16QAM	1	0	14.50	14.48	14.17	0-1	0
	1	36	14.39	14.49	14.19		0
	1	74	14.32	14.23	14.10		0
	36	0	14.44	14.34	14.21	0-2	0
	36	18	14.38	14.30	14.14		0
	36	37	14.30	14.23	14.05		0
	75	0	14.35	14.25	14.08		0
64QAM	1	0	14.35	14.46	14.04	0-2	0
	1	36	14.43	14.50	14.20		0
	1	74	14.40	14.31	14.12		0
	36	0	14.44	14.31	14.24	0-3	0
	36	18	14.37	14.30	14.15		0
	36	37	14.31	14.25	14.06		0
	75	0	14.36	14.26	14.08		0

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Table 8-63
LTE Band 4 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.35	14.35	14.03	0	0
	1	25	14.38	14.26	13.85		0
	1	49	14.31	14.21	13.91		0
	25	0	14.40	14.38	13.99	0-1	0
	25	12	14.44	14.30	13.95		0
	25	25	14.38	14.30	14.02		0
	50	0	14.45	14.31	13.97		0
16QAM	1	0	14.48	14.50	14.11	0-1	0
	1	25	14.49	14.40	14.01		0
	1	49	14.48	14.35	14.21		0
	25	0	14.42	14.30	14.00	0-2	0
	25	12	14.46	14.33	13.98		0
	25	25	14.40	14.25	14.07		0
	50	0	14.30	14.25	13.99		0
64QAM	1	0	14.50	14.50	14.23	0-2	0
	1	25	14.49	14.47	14.16		0
	1	49	14.47	14.32	14.06		0
	25	0	14.41	14.30	13.99	0-3	0
	25	12	14.47	14.30	14.01		0
	25	25	14.38	14.34	14.04		0
	50	0	14.35	14.36	14.02		0

Table 8-64
LTE Band 4 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.36	14.34	13.84	0	0
	1	12	14.38	14.23	13.86		0
	1	24	14.43	14.22	13.86		0
	12	0	14.33	14.26	13.94	0-1	0
	12	6	14.35	14.26	14.00		0
	12	13	14.40	14.24	13.99		0
	25	0	14.35	14.27	14.01		0
16QAM	1	0	14.49	14.48	13.95	0-1	0
	1	12	14.50	14.34	14.05		0
	1	24	14.49	14.48	13.93		0
	12	0	14.39	14.28	13.94	0-2	0
	12	6	14.37	14.34	13.94		0
	12	13	14.50	14.30	13.98		0
	25	0	14.40	14.26	13.95		0
64QAM	1	0	14.50	14.50	14.00	0-2	0
	1	12	14.49	14.33	14.09		0
	1	24	14.50	14.49	14.14		0
	12	0	14.38	14.33	13.97	0-3	0
	12	6	14.35	14.33	13.97		0
	12	13	14.50	14.30	13.96		0
	25	0	14.35	14.24	14.03		0

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Table 8-65
LTE Band 4 Conducted Powers Ant 2a - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.16	14.07	13.87	0	0
	1	7	14.23	14.14	13.93		0
	1	14	14.18	14.06	13.84		0
	8	0	14.28	14.17	14.01	0-1	0
	8	4	14.25	14.17	14.00		0
	8	7	14.28	14.15	13.98		0
	15	0	14.30	14.20	14.03		0
16QAM	1	0	14.38	14.24	14.00	0-1	0
	1	7	14.41	14.28	14.13		0
	1	14	14.24	14.28	14.09		0
	8	0	14.30	14.14	14.07	0-2	0
	8	4	14.27	14.26	14.10		0
	8	7	14.30	14.24	14.03		0
	15	0	14.40	14.25	14.10		0
64QAM	1	0	14.41	14.22	14.07	0-2	0
	1	7	14.38	14.24	14.00		0
	1	14	14.43	14.29	13.88		0
	8	0	14.33	14.23	14.11	0-3	0
	8	4	14.33	14.17	14.05		0
	8	7	14.37	14.14	14.08		0
	15	0	14.33	14.25	14.10		0

Table 8-66
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.33	14.21	13.80	0	0
	1	2	14.26	14.16	13.86		0
	1	5	14.35	14.33	13.94		0
	3	0	14.39	14.25	13.90		0
	3	2	14.33	14.25	13.97		0
	3	3	14.40	14.26	13.92		0
	6	0	14.48	14.47	14.06	0-1	0
16QAM	1	0	14.49	14.35	13.96	0-1	0
	1	2	14.43	14.30	14.16		0
	1	5	14.37	14.35	13.95		0
	3	0	14.41	14.28	13.93		0
	3	2	14.35	14.30	14.02		0
	3	3	14.43	14.30	13.94		0
	6	0	14.45	14.34	14.18	0-2	0
64QAM	1	0	14.50	14.42	14.11	0-2	0
	1	2	14.42	14.27	14.01		0
	1	5	14.36	14.35	13.94		0
	3	0	14.42	14.25	13.96		0
	3	2	14.33	14.29	13.99		0
	3	3	14.40	14.31	13.97		0
	6	0	14.33	14.25	14.10	0-3	0

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Table 8-67
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	11.37	0	0
	1	50	11.38		0
	1	99	11.25		0
	50	0	11.41	0-1	0
	50	25	11.33		0
	50	50	11.25		0
16QAM	100	0	11.32	0-1	0
	1	0	11.46		0
	1	50	11.46		0
	1	99	11.47	0-2	0
	50	0	11.42		0
	50	25	11.33		0
64QAM	50	50	11.27	0-2	0
	100	0	11.32		0
	1	0	11.29	0-2	0
	1	50	11.23		0
	1	99	11.23		0
	50	0	11.42	0-3	0
	50	25	11.36		0
	50	50	11.28		0
	100	0	11.35		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 8-68
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.17	11.42	11.24	0	0
	1	36	11.30	11.43	11.23		0
	1	74	11.41	11.12	11.17		0
	36	0	11.30	11.63	11.34	0-1	0
	36	18	11.38	11.57	11.36		0
	36	37	11.39	11.45	11.36		0
	75	0	11.34	11.53	11.31		0
16QAM	1	0	11.47	11.71	11.48	0-1	0
	1	36	11.66	11.74	11.71		0
	1	74	11.51	11.35	11.57		0
	36	0	11.33	11.46	11.37	0-2	0
	36	18	11.40	11.39	11.40		0
	36	37	11.40	11.44	11.39		0
	75	0	11.36	11.33	11.35		0
64QAM	1	0	11.55	11.56	11.42	0-2	0
	1	36	11.71	11.67	11.67		0
	1	74	11.60	11.51	11.64		0
	36	0	11.32	11.45	11.36	0-3	0
	36	18	11.41	11.39	11.39		0
	36	37	11.43	11.28	11.37		0
	75	0	11.37	11.34	11.36		0

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Table 8-69
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.30	11.57	11.28	0	0
	1	25	11.29	11.49	11.30		0
	1	49	11.39	11.34	11.28		0
	25	0	11.28	11.71	11.31	0-1	0
	25	12	11.28	11.59	11.35		0
	25	25	11.33	11.56	11.36		0
	50	0	11.29	11.60	11.35		0
16QAM	1	0	11.70	11.60	11.70	0-1	0
	1	25	11.53	11.74	11.67		0
	1	49	11.58	11.61	11.64		0
	25	0	11.30	11.51	11.33	0-2	0
	25	12	11.26	11.40	11.35		0
	25	25	11.34	11.41	11.38		0
	50	0	11.32	11.33	11.37		0
64QAM	1	0	11.61	11.40	11.67	0-2	0
	1	25	11.59	11.61	11.75		0
	1	49	11.55	11.44	11.71		0
	25	0	11.28	11.46	11.34	0-3	0
	25	12	11.31	11.39	11.37		0
	25	25	11.32	11.37	11.38		0
	50	0	11.30	11.33	11.37		0

Table 8-70
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.09	11.46	11.54	0	0
	1	12	11.09	11.45	11.64		0
	1	24	11.11	11.46	11.40		0
	12	0	11.18	11.51	11.51	0-1	0
	12	6	11.22	11.47	11.59		0
	12	13	11.21	11.50	11.62		0
16QAM	25	0	11.12	11.73	11.54	0	
	1	0	11.28	11.67	11.51	0-1	0
	1	12	11.35	11.61	11.74		0
	1	24	11.27	11.57	11.72		0
	12	0	11.14	11.34	11.67	0-2	0
	12	6	11.19	11.31	11.69		0
12	13	11.12	11.37	11.54	0		
64QAM	25	0	11.20	11.31	11.55	0	
	1	0	11.13	11.50	11.50	0-2	0
	1	12	11.30	11.60	11.64		0
	1	24	11.13	11.58	11.72		0
	12	0	11.17	11.46	11.70	0-3	0
	12	6	11.15	11.34	11.55		0
12	13	11.17	11.32	11.66	0		
	25	0	11.55	11.25	11.41		0

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Table 8-71
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.10	11.35	11.17	0	0
	1	7	11.23	11.36	11.16		0
	1	14	11.34	11.05	11.10		0
	8	0	11.23	11.56	11.27	0-1	0
	8	4	11.31	11.50	11.29		0
	8	7	11.32	11.38	11.29		0
	15	0	11.27	11.46	11.24		0
16QAM	1	0	11.40	11.64	11.41	0-1	0
	1	7	11.59	11.67	11.64		0
	1	14	11.74	11.28	11.50		0
	8	0	11.26	11.39	11.30	0-2	0
	8	4	11.33	11.32	11.33		0
	8	7	11.33	11.37	11.32		0
	15	0	11.29	11.26	11.28		0
64QAM	1	0	11.48	11.39	11.35	0-2	0
	1	7	11.64	11.60	11.60		0
	1	14	11.53	11.44	11.67		0
	8	0	11.25	11.38	11.29	0-3	0
	8	4	11.34	11.42	11.32		0
	8	7	11.36	11.31	11.30		0
	15	0	11.30	11.27	11.29		0

Table 8-72
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.31	11.58	11.29	0	0
	1	2	11.30	11.50	11.31		0
	1	5	11.40	11.35	11.29		0
	3	0	11.29	11.72	11.32		0
	3	2	11.29	11.60	11.36		0
	3	3	11.34	11.57	11.37	0	
	6	0	11.30	11.61	11.36	0-1	0
16QAM	1	0	11.71	11.59	11.71	0-1	0
	1	2	11.54	11.75	11.68		0
	1	5	11.69	11.62	11.65		0
	3	0	11.31	11.52	11.34		0
	3	2	11.27	11.41	11.36		0
	3	3	11.35	11.42	11.39	0	
	6	0	11.33	11.37	11.38	0-2	0
64QAM	1	0	11.71	11.52	11.68	0-2	0
	1	2	11.60	11.60	11.74		0
	1	5	11.56	11.55	11.71		0
	3	0	11.29	11.47	11.35		0
	3	2	11.32	11.40	11.38		0
	3	3	11.33	11.38	11.39	0	
	6	0	11.31	11.43	11.38	0-3	0

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Table 8-73
LTE Band 4 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	14.50	0	0
	1	50	14.39		0
	1	99	14.15		0
	50	0	14.30	0-1	0
	50	25	14.31		0
	50	50	14.17		0
16QAM	100	0	14.16	0-1	0
	1	0	14.31		0
	1	50	14.23		0
	1	99	14.01	0-2	0
	50	0	13.90		0
	50	25	13.92		0
64QAM	50	50	13.93	0-2	0
	100	0	14.32		0
	1	0	14.00	0-2	0
	1	50	13.96		0
	1	99	13.91	0-3	0
	50	0	13.94		0
	50	25	13.90		0
	50	50	13.90		0
	100	0	13.92		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 8-74
LTE Band 4 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.79	14.57	14.44	0	0
	1	36	14.80	14.57	14.47		0
	1	74	14.68	14.42	14.33		0
	36	0	14.67	14.67	14.56	0-1	0
	36	18	14.74	14.59	14.56		0
	36	37	14.68	14.45	14.50		0
	75	0	14.72	14.55	14.53		0
16QAM	1	0	14.81	14.73	14.65	0-1	0
	1	36	14.81	14.63	14.55		0
	1	74	14.81	14.48	14.56		0
	36	0	14.71	14.39	14.59	0-2	0
	36	18	14.74	14.40	14.61		0
	36	37	14.71	14.36	14.53		0
	75	0	14.74	14.55	14.54		0
64QAM	1	0	14.69	14.48	14.61	0-2	0
	1	36	14.75	14.45	14.65		0
	1	74	14.65	14.38	14.63		0
	36	0	14.70	14.39	14.60	0-3	0
	36	18	14.75	14.34	14.61		0
	36	37	14.71	14.39	14.55		0
	75	0	14.71	14.38	14.55		0

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Table 8-75
LTE Band 4 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.54	14.84	14.41	0	0
	1	25	14.49	14.49	14.38		0
	1	49	14.50	14.37	14.31		0
	25	0	14.61	14.60	14.42	0-1	0
	25	12	14.55	14.52	14.42		0
	25	25	14.60	14.44	14.41		0
	50	0	14.57	14.51	14.42		0
16QAM	1	0	14.66	14.76	14.43	0-1	0
	1	25	14.68	14.64	14.49		0
	1	49	14.74	14.43	14.40		0
	25	0	14.63	14.39	14.47	0-2	0
	25	12	14.55	14.39	14.46		0
	25	25	14.60	14.42	14.43		0
	50	0	14.58	14.52	14.45		0
64QAM	1	0	14.79	14.44	14.62	0-2	0
	1	25	14.62	14.36	14.62		0
	1	49	14.73	14.38	14.66		0
	25	0	14.66	14.39	14.48	0-3	0
	25	12	14.59	14.33	14.45		0
	25	25	14.60	14.22	14.44		0
	50	0	14.59	14.34	14.41		0

Table 8-76
LTE Band 4 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.53	14.72	14.37	0	0
	1	12	14.55	14.67	14.32		0
	1	24	14.55	14.53	14.28		0
	12	0	14.61	14.64	14.43	0-1	0
	12	6	14.60	14.58	14.40		0
	12	13	14.53	14.50	14.41		0
	25	0	14.63	14.58	14.41		0
16QAM	1	0	14.75	14.80	14.39	0-1	0
	1	12	14.73	14.65	14.54		0
	1	24	14.81	14.48	14.46		0
	12	0	14.61	14.34	14.46	0-2	0
	12	6	14.64	14.35	14.45		0
	12	13	14.61	14.39	14.44		0
	25	0	14.64	14.60	14.45		0
64QAM	1	0	14.77	14.46	14.56	0-2	0
	1	12	14.79	14.38	14.63		0
	1	24	14.57	14.33	14.71		0
	12	0	14.64	14.36	14.49	0-3	0
	12	6	14.69	14.34	14.51		0
	12	13	14.56	14.30	14.49		0
	25	0	14.64	14.39	14.46		0

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Table 8-77
LTE Band 4 Conducted Powers Ant 2b - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.50	14.52	14.21	0	0
	1	7	14.57	14.53	14.25		0
	1	14	14.54	14.39	14.17		0
	8	0	14.63	14.55	14.34	0-1	0
	8	4	14.63	14.55	14.32		0
	8	7	14.64	14.49	14.32		0
	15	0	14.65	14.59	14.34		0
16QAM	1	0	14.70	14.56	14.22	0-1	0
	1	7	14.84	14.69	14.41		0
	1	14	14.71	14.41	14.42		0
	8	0	14.69	14.37	14.42	0-2	0
	8	4	14.63	14.36	14.43		0
	8	7	14.68	14.34	14.32		0
	15	0	14.70	14.67	14.41		0
64QAM	1	0	14.72	14.44	14.50	0-2	0
	1	7	14.63	14.43	14.67		0
	1	14	14.75	14.31	14.65		0
	8	0	14.71	14.37	14.39	0-3	0
	8	4	14.71	14.37	14.38		0
	8	7	14.64	14.34	14.41		0
	15	0	14.64	14.31	14.43		0

Table 8-78
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.54	14.57	14.44	0	0
	1	2	14.53	14.81	14.42		0
	1	5	14.56	14.57	14.45		0
	3	0	14.58	14.62	14.36		0
	3	2	14.60	14.60	14.36		0
	3	3	14.58	14.62	14.38	0	
	6	0	14.59	14.62	14.38	0-1	0
16QAM	1	0	14.62	14.70	14.62	0-1	0
	1	2	14.73	14.66	14.46		0
	1	5	14.77	14.50	14.63		0
	3	0	14.74	14.36	14.43		0
	3	2	14.75	14.38	14.49		0
	3	3	14.78	14.35	14.48	0	
	6	0	14.56	14.66	14.40	0-2	0
64QAM	1	0	14.76	14.42	14.53	0-2	0
	1	2	14.70	14.39	14.48		0
	1	5	14.71	14.31	14.51		0
	3	0	14.62	14.37	14.63		0
	3	2	14.67	14.33	14.45		0
	3	3	14.67	14.33	14.47	0	
	6	0	14.73	14.37	14.45	0-3	0

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Table 8-79
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	11.29	0	0
	1	50	11.18		0
	1	99	10.91		0
	50	0	11.10	0-1	0
	50	25	11.02		0
	50	50	10.92		0
16QAM	100	0	10.98	0-1	0
	1	0	11.60		0
	1	50	11.56		0
	1	99	11.20	0-2	0
	50	0	11.12		0
	50	25	11.05		0
64QAM	50	50	10.93	0-2	0
	100	0	10.98		0
	1	0	11.54	0-2	0
	1	50	11.60		0
	1	99	11.20	0-3	0
	50	0	11.10		0
	50	25	11.06		0
	50	50	10.90	0-3	0
	100	0	10.99		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 8-80
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.21	11.48	11.04	0	0
	1	36	11.37	11.53	11.22		0
	1	74	11.23	11.22	11.04		0
	36	0	11.36	11.43	11.30	0-1	0
	36	18	11.44	11.42	11.31		0
	36	37	11.43	11.31	11.25		0
	75	0	11.42	11.37	11.26		0
16QAM	1	0	11.24	11.47	11.03	0-1	0
	1	36	11.44	11.57	11.36		0
	1	74	11.54	11.14	11.04		0
	36	0	11.36	11.38	11.27	0-2	0
	36	18	11.48	11.38	11.24		0
	36	37	11.46	11.22	11.17		0
	75	0	11.44	11.29	11.21		0
64QAM	1	0	11.21	11.44	10.92	0-2	0
	1	36	11.45	11.42	11.09		0
	1	74	11.37	11.08	10.91		0
	36	0	11.40	11.36	11.17	0-3	0
	36	18	11.52	11.32	11.18		0
	36	37	11.52	11.19	11.10		0
	75	0	11.50	11.27	11.15		0

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Table 8-81
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.29	11.37	11.18	0	0
	1	25	11.37	11.28	11.11		0
	1	49	11.52	11.08	11.02		0
	25	0	11.44	11.43	11.24	0-1	0
	25	12	11.46	11.34	11.21		0
	25	25	11.52	11.28	11.18		0
16QAM	50	0	11.47	11.34	11.23	0	
	1	0	11.55	11.50	11.33	0-1	0
	1	25	11.41	11.57	11.27		0
	1	49	11.59	11.32	11.20		0-2
	25	0	11.41	11.45	11.27	0	
	25	12	11.39	11.40	11.29	0	
64QAM	25	25	11.40	11.35	11.25	0	
	50	0	11.40	11.39	11.30	0	
	1	0	11.30	11.34	11.21	0-2	0
	1	25	11.37	11.28	11.12		0
	1	49	11.53	11.13	11.04		0
	25	0	11.44	11.46	11.24	0-3	0
25	12	11.43	11.34	11.21	0		
25	25	11.52	11.32	11.17	0		
	50	0	11.45	11.35	11.20		0

Table 8-82
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.14	11.28	11.19	0	0
	1	12	11.18	11.26	11.16		0
	1	24	11.19	11.27	11.12		0
	12	0	11.16	11.27	11.26	0-1	0
	12	6	11.19	11.32	11.24		0
	12	13	11.20	11.27	11.21		0
	25	0	11.21	11.32	11.25		0
16QAM	1	0	11.46	11.45	11.26	0-1	0
	1	12	11.49	11.39	11.36		0
	1	24	11.42	11.40	11.26		0
	12	0	11.31	11.28	11.30	0-2	0
	12	6	11.24	11.31	11.30		0
	12	13	11.30	11.29	11.29		0
	25	0	11.30	11.29	11.22		0
64QAM	1	0	11.35	11.43	11.38	0-2	0
	1	12	11.52	11.57	11.15		0
	1	24	11.38	11.42	11.16		0
	12	0	11.35	11.27	11.25	0-3	0
	12	6	11.36	11.31	11.26		0
	12	13	11.23	11.34	11.19		0
	25	0	11.33	11.30	11.23		0

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Table 8-83
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.07	11.07	11.11	0	0
	1	7	11.17	11.19	11.12		0
	1	14	11.14	11.07	11.08		0
	8	0	11.20	11.23	11.21	0-1	0
	8	4	11.23	11.27	11.21		0
	8	7	11.27	11.21	11.18		0
	15	0	11.25	11.26	11.22		0
16QAM	1	0	11.46	11.20	11.23	0-1	0
	1	7	11.27	11.42	11.20		0
	1	14	11.42	11.23	10.97		0
	8	0	11.30	11.28	11.16	0-2	0
	8	4	11.36	11.35	11.15		0
	8	7	11.33	11.30	11.12		0
	15	0	11.26	11.30	11.13		0
64QAM	1	0	11.26	11.18	11.15	0-2	0
	1	7	11.43	11.40	11.22		0
	1	14	11.36	11.22	11.10		0
	8	0	11.35	11.27	11.13	0-3	0
	8	4	11.34	11.31	11.13		0
	8	7	11.33	11.20	11.13		0
	15	0	11.37	11.28	11.15		0

Table 8-84
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.25	11.19	11.14	0	0
	1	2	11.23	11.16	11.10		0
	1	5	11.26	11.20	11.16		0
	3	0	11.19	11.27	11.03		0
	3	2	11.16	11.26	11.04		0
	3	3	11.20	11.28	11.08	0	
	6	0	11.20	11.25	11.06	0-1	0
16QAM	1	0	11.31	11.42	11.25	0-1	0
	1	2	11.30	11.22	11.16		0
	1	5	11.32	11.15	11.33		0
	3	0	11.27	11.26	11.15		0
	3	2	11.34	11.22	11.11		0
	3	3	11.33	11.33	11.26	0	
	6	0	11.37	11.27	11.13	0-2	0
64QAM	1	0	11.23	11.29	11.36	0-2	0
	1	2	11.14	11.35	11.12		0
	1	5	11.42	11.39	11.37		0
	3	0	11.15	11.20	11.17		0
	3	2	11.26	11.27	11.13		0
	3	3	11.32	11.28	11.27	0	
	6	0	11.25	11.20	11.08	0-3	0

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Table 8-85
LTE Band 4 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	14.43	0	0
	1	50	14.38		0
	1	99	14.42		0
	50	0	14.44	0-1	0
	50	25	14.40		0
	50	50	14.41		0
16QAM	100	0	14.42	0-1	0
	1	0	14.48		0
	1	50	14.50		0
	1	99	14.49	0-2	0
	50	0	14.19		0
	50	25	14.13		0
64QAM	50	50	14.15	0-2	0
	100	0	14.15		0
	1	0	14.28	0-2	0
	1	50	14.20		0
	1	99	14.20		0
	50	0	14.02	0-3	0
64QAM	50	25	14.00		0
	50	50	13.95		0
	100	0	13.98		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 8-86
LTE Band 4 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.63	14.10	13.86	0	0
	1	36	13.70	14.16	13.77		0
	1	74	13.59	14.10	13.79		0
	36	0	13.70	14.25	13.86	0-1	0
	36	18	13.81	14.26	13.89		0
	36	37	13.78	14.08	13.91		0
	75	0	13.78	14.10	13.86		0
16QAM	1	0	13.70	13.87	14.04	0-1	0
	1	36	13.83	14.09	14.07		0
	1	74	13.84	13.88	13.90		0
	36	0	13.81	13.82	13.77	0-2	0
	36	18	13.91	13.89	13.82		0
	36	37	13.87	13.83	13.77		0
	75	0	13.86	13.81	13.75		0
64QAM	1	0	13.90	13.99	13.98	0-2	0
	1	36	14.03	14.09	13.85		0
	1	74	13.90	14.08	13.84		0
	36	0	13.81	13.85	13.80	0-3	0
	36	18	13.84	13.92	13.85		0
	36	37	13.84	13.86	13.80		0
	75	0	13.78	13.84	13.78		0

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Table 8-87
LTE Band 4 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.99	14.05	13.80	0	0
	1	25	13.87	13.98	13.79		0
	1	49	14.00	13.93	13.84		0
	25	0	14.05	14.10	13.87	0-1	0
	25	12	13.95	14.08	13.87		0
	25	25	14.04	14.08	13.92		0
	50	0	13.94	14.08	13.87		0
16QAM	1	0	13.92	13.94	13.94	0-1	0
	1	25	13.78	14.07	13.89		0
	1	49	13.84	13.82	13.90		0
	25	0	13.72	13.82	13.72	0-2	0
	25	12	13.64	13.85	14.08		0
	25	25	13.71	13.87	14.01		0
	50	0	13.63	14.07	14.12		0
64QAM	1	0	13.86	14.00	13.89	0-2	0
	1	25	13.79	14.11	13.85		0
	1	49	14.08	13.88	13.85		0
	25	0	13.73	13.84	13.87	0-3	0
	25	12	13.72	13.83	13.84		0
	25	25	13.72	13.79	14.13		0
	50	0	13.70	13.79	13.78		0

Table 8-88
LTE Band 4 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.76	13.92	13.69	0	0
	1	12	13.68	13.89	13.75		0
	1	24	13.75	13.88	13.87		0
	12	0	13.94	14.01	13.90	0-1	0
	12	6	13.94	14.03	13.96		0
	12	13	13.86	14.00	13.99		0
	25	0	13.94	14.01	13.98		0
16QAM	1	0	14.05	13.98	13.90	0-1	0
	1	12	13.81	13.97	14.02		0
	1	24	13.83	13.94	13.98		0
	12	0	13.75	13.85	13.75	0-2	0
	12	6	13.74	13.76	13.85		0
	12	13	13.67	13.79	13.86		0
	25	0	13.71	13.79	13.88		0
64QAM	1	0	13.84	14.16	13.88	0-2	0
	1	12	13.79	13.95	13.94		0
	1	24	13.61	13.80	13.83		0
	12	0	13.67	13.76	13.75	0-3	0
	12	6	13.70	13.76	13.84		0
	12	13	13.61	13.68	13.81		0
	25	0	13.61	13.78	13.83		0

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Table 8-89
LTE Band 4 Conducted Powers Ant 4a - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.80	13.83	13.85	0	0
	1	7	13.84	13.90	13.89		0
	1	14	13.78	13.83	13.83		0
	8	0	13.91	13.98	13.98	0-1	0
	8	4	13.92	13.98	13.96		0
	8	7	13.92	13.99	13.96		0
	15	0	13.94	13.99	14.00		0
16QAM	1	0	14.04	13.92	13.86	0-1	0
	1	7	13.78	13.89	13.98		0
	1	14	13.99	13.86	13.96		0
	8	0	13.74	13.83	13.83	0-2	0
	8	4	13.72	13.80	13.92		0
	8	7	13.74	13.92	13.87		0
	15	0	13.74	13.91	13.91		0
64QAM	1	0	14.01	14.14	13.95	0-2	0
	1	7	13.97	14.01	14.00		0
	1	14	14.00	13.97	14.07		0
	8	0	13.81	13.85	13.85	0-3	0
	8	4	13.80	13.83	13.85		0
	8	7	13.79	13.85	13.85		0
	15	0	13.80	13.90	13.87		0

Table 8-90
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.96	14.08	13.98	0	0
	1	2	14.08	14.08	13.96		0
	1	5	14.08	14.07	13.99		0
	3	0	14.11	14.03	13.90		0
	3	2	14.03	14.04	13.90		0
	3	3	14.03	14.04	13.92	0	
	6	0	13.98	14.06	13.92	0-1	0
16QAM	1	0	13.80	14.02	13.91	0-1	0
	1	2	13.81	13.89	13.82		0
	1	5	13.88	14.07	13.94		0
	3	0	13.80	13.90	13.87		0
	3	2	13.73	13.81	13.86		0
	3	3	13.67	13.88	13.88	0	
6	0	13.67	13.87	13.85	0-2	0	
64QAM	1	0	13.93	13.87	14.11	0-2	0
	1	2	13.95	14.04	13.93		0
	1	5	13.89	13.92	14.09		0
	3	0	13.90	13.96	13.93		0
	3	2	13.84	14.01	13.95		0
	3	3	13.86	14.01	14.00	0	
	6	0	13.67	13.72	13.90	0-3	0

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Table 8-91
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	11.49	0	0
	1	50	11.45		0
	1	99	11.37		0
	50	0	11.34	0-1	0
	50	25	11.31		0
	50	50	11.30		0
16QAM	100	0	11.31	0-1	0
	1	0	11.07		0
	1	50	11.14		0
	1	99	11.05	0-2	0
	50	0	10.97		0
	50	25	11.03		0
64QAM	50	50	10.94	0-2	0
	100	0	11.08		0
	1	0	10.80	0-2	0
	1	50	10.85		0
	1	99	10.91		0
	50	0	10.95	0-3	0
	50	25	10.96		0
	50	50	10.91		0
	100	0	10.86		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 8-92
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.86	10.90	10.94	0	0
	1	36	10.97	11.06	10.78		0
	1	74	10.94	10.73	10.83		0
	36	0	11.11	11.05	10.86	0-1	0
	36	18	11.15	11.17	11.00		0
	36	37	11.13	11.12	10.98		0
	75	0	11.16	11.22	11.00		0
16QAM	1	0	11.27	10.92	11.23	0-1	0
	1	36	11.31	11.42	11.30		0
	1	74	11.14	11.29	11.13		0
	36	0	10.90	11.20	10.88	0-2	0
	36	18	10.98	11.12	11.02		0
	36	37	10.96	11.14	10.96		0
	75	0	10.97	11.22	10.94		0
64QAM	1	0	11.07	11.35	11.07	0-2	0
	1	36	11.39	11.43	11.34		0
	1	74	11.03	11.25	11.06		0
	36	0	11.00	11.08	11.07	0-3	0
	36	18	11.07	11.27	11.05		0
	36	37	11.09	11.14	11.15		0
	75	0	10.95	11.16	11.13		0

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Table 8-93
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.89	11.09	11.06	0	0
	1	25	10.93	11.03	10.99		0
	1	49	10.94	10.79	11.12		0
	25	0	10.90	11.05	10.99	0-1	0
	25	12	10.91	11.11	11.13		0
	25	25	10.91	11.13	11.13		0
	50	0	10.94	11.18	11.11		0
16QAM	1	0	11.32	11.42	11.19	0-1	0
	1	25	11.47	11.36	11.40		0
	1	49	11.20	11.43	11.38		0
	25	0	10.80	11.21	10.99	0-2	0
	25	12	10.72	10.99	11.16		0
	25	25	10.75	11.13	11.11		0
	50	0	10.78	11.16	11.06		0
64QAM	1	0	10.99	11.28	11.26	0-2	0
	1	25	10.97	11.47	11.37		0
	1	49	10.96	11.39	11.29		0
	25	0	10.85	11.11	11.08	0-3	0
	25	12	10.89	11.26	10.97		0
	25	25	10.90	11.16	10.98		0
	50	0	10.90	11.06	11.12		0

Table 8-94
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			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 8-95
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.77	11.02	11.07	0	0
	1	7	10.76	11.06	10.94		0
	1	14	10.93	10.90	11.01		0
	8	0	10.85	10.94	10.98	0-1	0
	8	4	10.84	11.03	11.05		0
	8	7	10.90	11.08	11.07		0
	15	0	10.91	11.11	11.06		0
16QAM	1	0	11.13	11.16	11.36	0-1	0
	1	7	11.10	11.16	11.38		0
	1	14	10.95	11.21	11.18		0
	8	0	10.94	11.05	11.02	0-2	0
	8	4	10.91	10.94	11.10		0
	8	7	10.88	11.09	11.07		0
	15	0	10.96	11.08	11.00		0
64QAM	1	0	10.75	11.13	11.26	0-2	0
	1	7	10.85	11.21	11.31		0
	1	14	10.82	11.22	11.08		0
	8	0	10.68	10.97	11.12	0-3	0
	8	4	10.71	11.13	11.07		0
	8	7	10.78	11.10	11.13		0
	15	0	10.68	11.05	11.14		0

Table 8-96
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.76	11.04	11.10	0	0
	1	2	10.69	11.04	10.93		0
	1	5	10.78	10.94	11.08		0
	3	0	10.75	10.91	10.97		0
	3	2	10.78	11.02	11.06		0
	3	3	10.81	11.07	11.07	0	
	6	0	10.83	11.10	11.07	0-1	0
16QAM	1	0	11.12	11.28	11.40	0-1	0
	1	2	11.10	11.19	11.41		0
	1	5	10.92	11.32	11.30		0
	3	0	10.72	11.12	11.10		0
	3	2	10.70	10.99	11.21		0
	3	3	10.69	11.11	11.17	0	
	6	0	10.72	11.11	11.06	0-2	0
64QAM	1	0	10.90	11.19	11.25	0-2	0
	1	2	10.84	11.21	11.26		0
	1	5	10.79	11.29	11.14		0
	3	0	10.80	11.05	11.15		0
	3	2	10.85	11.20	11.13		0
	3	3	10.86	11.19	11.20	0	
	6	0	10.72	11.08	11.13	0-3	0

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Table 8-97
LTE Band 4 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	13.86	0	0
	1	50	13.84		0
	1	99	13.95		0
	50	0	13.86	0-1	0
	50	25	13.84		0
	50	50	13.85		0
16QAM	100	0	13.81	0-1	0
	1	0	13.98		0
	1	50	13.90		0
	1	99	14.06	0-2	0
	50	0	13.62		0
	50	25	13.60		0
64QAM	50	50	13.65	0-2	0
	100	0	13.56		0
	1	0	13.80	0-2	0
	1	50	13.90		0
	1	99	13.98	0-3	0
	50	0	13.60		0
	50	25	13.59		0
	50	50	13.60		0
	100	0	13.56		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 8-98
LTE Band 4 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.86	13.77	13.74	0	0
	1	36	13.82	13.79	13.74		0
	1	74	13.55	13.84	13.65		0
	36	0	13.90	13.78	13.92	0-1	0
	36	18	13.94	13.72	13.83		0
	36	37	13.79	13.65	13.80		0
	75	0	13.92	13.68	13.79		0
16QAM	1	0	14.10	14.09	13.82	0-1	0
	1	36	14.09	14.01	13.89		0
	1	74	13.74	13.94	13.79		0
	36	0	13.98	13.92	13.94	0-2	0
	36	18	14.01	13.85	13.89		0
	36	37	13.90	13.77	13.82		0
	75	0	13.98	13.81	13.84		0
64QAM	1	0	14.07	14.10	13.77	0-2	0
	1	36	14.09	13.96	13.94		0
	1	74	13.85	14.03	13.83		0
	36	0	13.98	13.88	13.96	0-3	0
	36	18	13.99	13.84	13.85		0
	36	37	13.91	13.78	13.81		0
	75	0	13.99	13.82	13.83		0

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Table 8-99
LTE Band 4 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.97	13.65	13.85	0	0
	1	25	13.83	13.53	13.66		0
	1	49	13.79	13.62	13.72		0
	25	0	14.02	13.75	13.80	0-1	0
	25	12	13.93	13.66	13.79		0
	25	25	13.89	13.64	13.87		0
	50	0	13.93	13.66	13.78		0
16QAM	1	0	14.08	14.01	14.03	0-1	0
	1	25	14.03	13.84	14.00		0
	1	49	14.04	13.95	14.04		0
	25	0	13.90	13.88	13.93	0-2	0
	25	12	13.81	13.80	13.93		0
	25	25	13.81	13.75	14.03		0
	50	0	13.83	13.78	13.97		0
64QAM	1	0	14.07	13.91	14.09	0-2	0
	1	25	13.86	13.78	13.98		0
	1	49	13.92	13.97	14.05		0
	25	0	13.93	13.89	13.93	0-3	0
	25	12	13.86	13.78	13.92		0
	25	25	13.84	13.72	14.02		0
	50	0	13.84	13.78	13.94		0

Table 8-100
LTE Band 4 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.10	13.66	13.69	0	0
	1	12	14.03	13.58	13.77		0
	1	24	13.99	13.52	13.75		0
	12	0	13.99	13.67	13.81	0-1	0
	12	6	14.00	13.66	13.88		0
	12	13	13.95	13.60	13.88		0
	25	0	14.02	13.68	13.88		0
16QAM	1	0	14.08	13.99	13.88	0-1	0
	1	12	14.06	13.82	13.88		0
	1	24	14.04	13.78	13.68		0
	12	0	13.91	13.73	13.78	0-2	0
	12	6	14.04	13.67	13.88		0
	12	13	13.91	13.66	13.91		0
	25	0	13.98	13.82	13.89		0
64QAM	1	0	14.10	14.04	13.66	0-2	0
	1	12	14.04	13.82	13.98		0
	1	24	14.02	13.88	13.82		0
	12	0	13.88	13.72	13.74	0-3	0
	12	6	13.97	13.71	13.84		0
	12	13	13.85	13.69	13.87		0
	25	0	13.93	13.73	13.90		0

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Table 8-101
LTE Band 4 Conducted Powers Ant 4b - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.85	13.58	13.76	0	0
	1	7	13.81	13.60	13.81		0
	1	14	13.73	13.49	13.69		0
	8	0	13.89	13.68	13.89	0-1	0
	8	4	13.88	13.67	13.87		0
	8	7	13.87	13.66	13.80		0
	15	0	13.92	13.70	13.92		0
16QAM	1	0	14.07	13.63	13.96	0-1	0
	1	7	13.81	13.82	13.94		0
	1	14	14.03	13.68	13.98		0
	8	0	13.97	13.72	13.93	0-2	0
	8	4	14.00	13.73	13.98		0
	8	7	14.02	13.69	13.93		0
	15	0	13.92	13.74	14.01		0
64QAM	1	0	14.02	13.72	13.83	0-2	0
	1	7	14.04	13.84	14.05		0
	1	14	14.00	13.58	13.86		0
	8	0	13.94	13.76	14.00	0-3	0
	8	4	13.93	13.71	14.00		0
	8	7	14.01	13.71	13.91		0
	15	0	13.96	13.75	14.03		0

Table 8-102
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.75	13.66	13.99	0	0
	1	2	13.71	13.68	13.85		0
	1	5	13.50	13.73	13.81		0
	3	0	13.79	13.67	14.04		0
	3	2	13.83	13.61	13.95		0
	3	3	13.68	13.54	13.91		0
	6	0	13.81	13.57	13.95	0-1	0
16QAM	1	0	14.07	13.89	13.95	0-1	0
	1	2	13.90	13.88	13.88		0
	1	5	14.10	13.80	13.98		0
	3	0	14.10	13.83	13.96		0
	3	2	13.96	13.83	13.93		0
	3	3	14.01	13.86	13.89		0
	6	0	13.92	13.79	13.94	0-2	0
64QAM	1	0	14.07	13.91	13.94	0-2	0
	1	2	14.00	13.81	14.01		0
	1	5	14.07	13.88	14.05		0
	3	0	13.97	13.92	13.89		0
	3	2	14.02	13.89	13.88		0
	3	3	13.99	13.91	14.00		0
	6	0	14.00	13.75	13.91	0-3	0

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Table 8-103
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	11.36	0	0
	1	50	11.25		0
	1	99	11.32		0
	50	0	11.17	0-1	0
	50	25	11.15		0
	50	50	11.18		0
16QAM	100	0	11.17	0-1	0
	1	0	11.13		0
	1	50	11.00		0
	1	99	11.20	0-2	0
	50	0	10.70		0
	50	25	10.63		0
64QAM	50	50	10.70	0-2	0
	100	0	10.68		0
	1	0	11.20	0-2	0
	1	50	11.22		0
	1	99	11.30		0
	50	0	10.94	0-3	0
	50	25	10.92		0
	50	50	11.00		0
	100	0	10.99		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 8-104
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.99	10.79	11.10	0	0
	1	36	11.01	10.63	11.00		0
	1	74	11.04	10.80	11.12		0
	36	0	10.83	10.73	11.02	0-1	0
	36	18	10.89	10.73	11.06		0
	36	37	10.85	10.82	11.08		0
	75	0	10.92	10.76	11.04		0
16QAM	1	0	10.99	11.05	11.09	0-1	0
	1	36	11.01	10.85	11.18		0
	1	74	11.01	10.99	11.14		0
	36	0	10.85	10.91	11.00	0-2	0
	36	18	10.94	10.95	11.19		0
	36	37	10.80	11.03	11.17		0
	75	0	10.93	10.97	11.14		0
64QAM	1	0	11.24	11.05	11.29	0-2	0
	1	36	11.19	11.18	11.50		0
	1	74	10.81	11.28	11.48		0
	36	0	10.95	10.85	11.22	0-3	0
	36	18	10.94	10.74	11.20		0
	36	37	10.90	10.87	11.17		0
	75	0	10.94	10.78	11.14		0

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Table 8-105
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.03	10.87	11.09	0	0
	1	25	10.91	10.83	11.00		0
	1	49	10.87	10.97	11.07		0
	25	0	11.07	10.89	11.11	0-1	0
	25	12	10.99	10.93	11.09		0
	25	25	10.97	11.00	11.13		0
50	0	11.00	10.92	11.08	0		
16QAM	1	0	11.18	11.14	11.16	0-1	0
	1	25	11.12	11.07	11.12		0
	1	49	11.08	11.28	11.23		0
	25	0	11.09	10.94	11.04	0-2	0
	25	12	11.01	10.91	11.04		0
	25	25	11.00	11.04	11.14		0
50	0	11.04	10.96	11.09	0		
64QAM	1	0	11.29	11.07	11.15	0-2	0
	1	25	11.07	11.00	11.18		0
	1	49	11.06	10.93	10.90		0
	25	0	11.05	10.67	11.01	0-3	0
	25	12	10.99	10.69	11.07		0
	25	25	11.06	10.79	11.11		0
50	0	10.95	10.75	11.09	0		

Table 8-106
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.03	11.02	10.85	0	0
	1	12	10.91	10.91	10.90		0
	1	24	10.89	11.04	10.97		0
	12	0	10.94	10.82	10.98	0-1	0
	12	6	10.96	10.79	11.01		0
	12	13	10.89	10.93	11.01		0
	25	0	10.94	10.83	11.02		0
16QAM	1	0	11.12	11.08	10.95	0-1	0
	1	12	11.10	11.12	11.04		0
	1	24	11.07	11.27	11.13		0
	12	0	10.90	10.86	11.00	0-2	0
	12	6	11.01	10.89	11.06		0
	12	13	10.93	10.91	11.02		0
	25	0	10.98	10.87	11.05		0
64QAM	1	0	11.06	11.16	11.10	0-2	0
	1	12	11.09	11.16	11.32		0
	1	24	11.06	11.30	11.35		0
	12	0	11.01	10.87	11.00	0-3	0
	12	6	10.99	10.91	11.09		0
	12	13	10.91	10.98	11.09		0
	25	0	10.94	10.84	11.07		0

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Table 8-107
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.13	10.80	11.02	0	0
	1	7	11.09	10.90	11.06		0
	1	14	11.01	10.90	11.02		0
	8	0	11.14	10.98	11.11	0-1	0
	8	4	11.13	10.97	11.11		0
	8	7	11.14	11.04	11.13		0
15	0	11.16	10.97	11.13	0		
16QAM	1	0	11.35	11.23	11.07	0-1	0
	1	7	11.21	11.26	11.30		0
	1	14	11.18	11.06	11.27		0
	8	0	11.15	11.05	11.18	0-2	0
	8	4	11.24	11.06	11.17		0
	8	7	11.18	11.12	11.13		0
15	0	11.14	11.10	11.14	0		
64QAM	1	0	11.41	11.03	11.33	0-2	0
	1	7	11.17	11.31	11.37		0
	1	14	11.29	11.21	11.34		0
	8	0	11.20	11.08	11.24	0-3	0
	8	4	11.21	11.10	11.23		0
	8	7	11.26	11.12	11.21		0
	15	0	11.19	11.09	11.18		0

Table 8-108
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.11	10.88	11.07	0	0
	1	2	10.97	10.80	11.06		0
	1	5	11.02	10.81	11.09		0
	3	0	11.16	10.93	10.95		0
	3	2	11.05	10.92	10.95		0
	3	3	11.04	10.94	10.98		0
	6	0	11.06	10.92	10.95	0-1	0
16QAM	1	0	11.15	11.18	11.12	0-1	0
	1	2	11.12	11.24	11.02		0
	1	5	11.14	11.13	11.11		0
	3	0	11.17	10.97	11.03		0
	3	2	11.23	11.00	11.07		0
	3	3	11.10	10.97	11.06		0
	6	0	11.11	10.98	10.99	0-2	0
64QAM	1	0	11.19	11.35	11.14	0-2	0
	1	2	11.15	11.24	11.14		0
	1	5	11.27	11.18	11.14		0
	3	0	11.10	10.91	11.18		0
	3	2	11.12	11.00	11.11		0
	3	3	11.04	10.94	11.06		0
	6	0	11.11	10.96	11.09	0-3	0

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LTE Band 66

Table 8-109
LTE Band 66 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.40	14.26	14.25	0	0
	1	50	14.39	14.17	14.28		0
	1	99	14.38	14.05	14.39		0
	50	0	14.50	14.24	14.18	0-1	0
	50	25	14.49	14.22	14.17		0
	50	50	14.49	14.11	14.17		0
	100	0	14.38	14.20	14.20		0
16QAM	1	0	14.36	14.45	14.29	0-1	0
	1	50	14.22	14.40	14.44		0
	1	99	14.34	14.22	14.35		0
	50	0	14.04	13.77	13.79	0-2	0
	50	25	14.00	13.76	13.81		0
	50	50	13.98	13.75	13.76		0
	100	0	13.96	13.92	13.78		0
64QAM	1	0	14.39	14.34	14.09	0-2	0
	1	50	14.31	14.26	14.18		0
	1	99	14.27	14.06	14.24		0
	50	0	14.04	13.79	13.80	0-3	0
	50	25	14.02	13.75	13.82		0
	50	50	13.98	13.76	13.94		0
	100	0	14.00	13.93	13.79		0

Table 8-110
LTE Band 66 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.30	14.02	13.94	0	0
	1	36	14.49	13.97	14.17		0
	1	74	14.21	13.94	14.26		0
	36	0	14.46	13.92	14.11	0-1	0
	36	18	14.48	13.87	14.26		0
	36	37	14.40	13.92	14.29		0
	75	0	14.47	13.93	14.27		0
16QAM	1	0	14.34	13.75	13.91	0-1	0
	1	36	14.33	13.77	14.25		0
	1	74	14.19	13.77	14.26		0
	36	0	14.12	13.75	13.79	0-2	0
	36	18	14.18	13.75	14.00		0
	36	37	14.07	13.79	14.05		0
	75	0	14.17	13.75	13.98		0
64QAM	1	0	14.19	13.77	13.92	0-2	0
	1	36	14.41	13.75	14.26		0
	1	74	14.17	13.81	14.18		0
	36	0	14.14	13.76	13.80	0-3	0
	36	18	14.17	13.75	14.01		0
	36	37	14.05	13.80	14.00		0
	75	0	14.17	13.75	14.00		0

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Table 8-111
LTE Band 66 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.37	13.88	14.08	0	0
	1	25	14.41	13.84	14.19		0
	1	49	14.41	13.85	14.36		0
	25	0	14.45	13.93	14.28	0-1	0
	25	12	14.47	13.84	14.29		0
	25	25	14.48	13.92	14.43		0
	50	0	14.47	13.91	14.32		0
16QAM	1	0	14.30	13.87	13.95	0-1	0
	1	25	14.35	13.89	14.01		0
	1	49	14.17	13.86	14.16		0
	25	0	14.12	13.85	13.97	0-2	0
	25	12	14.16	13.77	13.97		0
	25	25	14.21	13.88	14.05		0
	50	0	14.16	13.82	13.98		0
64QAM	1	0	14.41	13.92	13.96	0-2	0
	1	25	14.39	13.89	14.06		0
	1	49	14.37	13.82	14.38		0
	25	0	14.15	13.85	13.96	0-3	0
	25	12	14.15	13.78	13.97		0
	25	25	14.19	13.88	14.09		0
	50	0	14.19	13.83	14.00		0

Table 8-112
LTE Band 66 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.41	13.76	14.05	0	0
	1	12	14.39	13.78	14.17		0
	1	24	14.43	13.81	14.22		0
	12	0	14.36	13.75	14.23	0-1	0
	12	6	14.37	13.75	14.30		0
	12	13	14.40	13.83	14.33		0
	25	0	14.41	13.83	14.32		0
16QAM	1	0	14.23	13.81	14.13	0-1	0
	1	12	14.30	13.90	14.18		0
	1	24	14.39	13.94	14.19		0
	12	0	14.07	13.75	13.99	0-2	0
	12	6	14.13	13.75	14.02		0
	12	13	14.08	13.79	13.99		0
	25	0	14.08	13.75	14.01		0
64QAM	1	0	14.42	13.91	14.11	0-2	0
	1	12	14.27	13.90	14.16		0
	1	24	14.48	13.87	14.19		0
	12	0	14.07	13.76	13.99	0-3	0
	12	6	14.10	13.76	13.99		0
	12	13	14.12	13.76	14.00		0
	25	0	14.08	13.75	14.00		0

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Table 8-113
LTE Band 66 Conducted Powers Ant 2a - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.22	13.75	14.24	0	0
	1	7	14.29	13.86	14.28		0
	1	14	14.26	13.82	14.27		0
	8	0	14.30	13.86	14.38	0-1	0
	8	4	14.32	13.91	14.38		0
	8	7	14.35	13.92	14.38		0
	15	0	14.36	13.95	14.40		0
16QAM	1	0	14.16	13.76	14.28	0-1	0
	1	7	14.15	13.85	14.28		0
	1	14	14.03	13.85	14.26		0
	8	0	13.99	13.90	14.08	0-2	0
	8	4	13.99	13.96	14.06		0
	8	7	13.96	13.98	14.11		0
	15	0	14.01	13.98	14.05		0
64QAM	1	0	14.01	13.94	14.29	0-2	0
	1	7	14.13	14.02	14.18		0
	1	14	13.99	14.14	14.17		0
	8	0	13.99	13.90	14.09	0-3	0
	8	4	13.96	13.97	14.01		0
	8	7	13.98	13.97	14.08		0
	15	0	13.98	13.99	14.10		0

Table 8-114
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.23	13.96	14.37	0	0
	1	2	14.21	13.94	14.36		0
	1	5	14.25	14.06	14.40		0
	3	0	14.27	13.99	14.28		0
	3	2	14.29	14.08	14.28		0
	3	3	14.29	14.09	14.30		0
	6	0	14.29	14.08	14.31	0-1	0
16QAM	1	0	14.27	13.88	14.11	0-1	0
	1	2	14.32	13.84	13.94		0
	1	5	14.13	13.84	14.10		0
	3	0	14.14	13.79	13.98		0
	3	2	14.13	13.78	14.09		0
	3	3	14.09	13.78	14.02	0-2	0
6	0	14.07	13.82	14.06	0		
64QAM	1	0	14.20	13.78	14.20	0-2	0
	1	2	14.20	13.86	14.03		0
	1	5	14.26	13.86	14.17		0
	3	0	14.07	13.78	14.04		0
	3	2	14.12	13.84	14.00		0
	3	3	14.10	13.86	14.12		0
	6	0	14.07	13.82	14.09	0-3	0

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Table 8-115
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.27	11.25	11.25	0	0
	1	50	11.35	11.31	11.14		0
	1	99	11.22	11.19	11.31		0
	50	0	11.42	11.24	11.13	0-1	0
	50	25	11.41	11.27	11.13		0
	50	50	11.35	11.18	11.26		0
	100	0	11.32	11.26	11.13		0
16QAM	1	0	11.46	11.32	11.22	0-1	0
	1	50	11.48	11.46	11.26		0
	1	99	11.46	11.37	11.46		0
	50	0	11.36	11.30	11.10	0-2	0
	50	25	11.41	11.33	11.14		0
	50	50	11.37	11.27	11.30		0
	100	0	11.38	11.30	11.11		0
64QAM	1	0	11.40	11.37	11.35	0-2	0
	1	50	11.42	11.48	11.41		0
	1	99	11.32	11.46	11.45		0
	50	0	11.48	11.29	11.32	0-3	0
	50	25	11.43	11.31	11.12		0
	50	50	11.37	11.22	11.11		0
	100	0	11.42	11.26	11.22		0

Table 8-116
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.13	11.13	10.99	0	0
	1	36	11.30	11.09	10.88		0
	1	74	11.38	11.07	11.01		0
	36	0	11.27	11.31	11.11	0-1	0
	36	18	11.34	11.25	11.03		0
	36	37	11.35	11.23	11.07		0
	75	0	11.30	11.22	10.99		0
16QAM	1	0	11.43	11.48	11.41	0-1	0
	1	36	11.68	11.39	11.24		0
	1	74	11.65	11.38	11.10		0
	36	0	11.30	11.35	11.15	0-2	0
	36	18	11.38	11.29	11.05		0
	36	37	11.40	11.22	11.10		0
	75	0	11.33	11.23	11.02		0
64QAM	1	0	11.41	11.49	11.53	0-2	0
	1	36	11.56	11.36	10.88		0
	1	74	11.74	11.50	11.34		0
	36	0	11.29	11.33	11.15	0-3	0
	36	18	11.34	11.26	11.04		0
	36	37	11.39	11.26	11.10		0
	75	0	11.33	11.24	11.01		0

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Table 8-117
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.32	11.31	11.10	0	0
	1	25	11.32	11.16	11.08		0
	1	49	11.42	11.13	11.22		0
	25	0	11.31	11.40	11.08	0-1	0
	25	12	11.30	11.29	11.16		0
	25	25	11.35	11.30	11.21		0
	50	0	11.32	11.29	11.18		0
16QAM	1	0	11.34	11.74	11.37	0-1	0
	1	25	11.36	11.62	11.35		0
	1	49	11.53	11.54	11.47		0
	25	0	11.33	11.43	11.05	0-2	0
	25	12	11.36	11.31	11.15		0
	25	25	11.39	11.34	11.22		0
	50	0	11.33	11.33	11.22		0
64QAM	1	0	11.35	11.45	11.54	0-2	0
	1	25	11.42	11.36	11.40		0
	1	49	11.62	11.31	11.61		0
	25	0	11.34	11.43	11.08	0-3	0
	25	12	11.34	11.33	11.15		0
	25	25	11.40	11.32	11.18		0
	50	0	11.35	11.32	11.18		0

Table 8-118
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.21	11.18	11.04	0	0
	1	12	11.16	11.04	11.09		0
	1	24	11.17	11.11	11.11		0
	12	0	11.16	11.21	11.09	0-1	0
	12	6	11.18	11.19	11.20		0
	12	13	11.18	11.17	11.18		0
	25	0	11.20	11.21	11.21		0
16QAM	1	0	11.26	11.53	11.29	0-1	0
	1	12	11.37	11.36	11.40		0
	1	24	11.36	11.43	11.42		0
	12	0	11.23	11.15	11.13	0-2	0
	12	6	11.22	11.24	11.24		0
	12	13	11.24	11.26	11.26		0
	25	0	11.25	11.25	11.25		0
64QAM	1	0	11.29	11.52	10.98	0-2	0
	1	12	11.35	11.57	11.13		0
	1	24	11.35	11.55	11.37		0
	12	0	11.24	11.19	11.07	0-3	0
	12	6	11.16	11.21	11.12		0
	12	13	11.18	11.23	11.15		0
	25	0	11.18	11.20	11.17		0

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Table 8-119
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.13	11.13	10.95	0	0
	1	7	11.08	10.99	11.00		0
	1	14	11.09	11.06	11.02		0
	8	0	11.08	11.16	11.00	0-1	0
	8	4	11.10	11.14	11.11		0
	8	7	11.10	11.12	11.09		0
	15	0	11.12	11.16	11.12		0
16QAM	1	0	11.18	11.48	11.20	0-1	0
	1	7	11.29	11.31	11.31		0
	1	14	11.27	11.36	11.33		0
	8	0	11.14	11.08	11.04	0-2	0
	8	4	11.13	11.17	11.15		0
	8	7	11.15	11.19	11.18		0
	15	0	11.16	11.18	11.17		0
64QAM	1	0	11.20	11.45	10.90	0-2	0
	1	7	11.26	11.50	11.05		0
	1	14	11.26	11.51	11.29		0
	8	0	11.15	11.15	10.99	0-3	0
	8	4	11.09	11.17	11.04		0
	8	7	11.11	11.19	11.07		0
	15	0	11.11	11.16	11.09		0

Table 8-120
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.25	11.22	10.99	0	0
	1	2	11.25	11.07	10.97		0
	1	5	11.35	11.04	11.11		0
	3	0	11.24	11.31	10.97		0
	3	2	11.23	11.20	11.05		0
	3	3	11.28	11.21	11.10	0	
	6	0	11.25	11.20	11.07	0-1	0
16QAM	1	0	11.27	11.63	11.26	0-1	0
	1	2	11.29	11.51	11.24		0
	1	5	11.44	11.43	11.35		0
	3	0	11.24	11.32	10.93		0
	3	2	11.27	11.20	11.03		0
	3	3	11.30	11.23	11.10	0	
	6	0	11.24	11.22	11.10	0-2	0
64QAM	1	0	11.26	11.34	11.42	0-2	0
	1	2	11.34	11.25	11.38		0
	1	5	11.54	11.19	11.49		0
	3	0	11.26	11.31	10.96		0
	3	2	11.26	11.21	11.03		0
	3	3	11.32	11.20	11.06	0	
	6	0	11.27	11.20	11.06	0-3	0

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Table 8-121
LTE Band 66 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.40	14.20	14.13	0	0
	1	50	14.50	14.12	14.22		0
	1	99	14.49	14.03	14.25		0
	50	0	14.41	14.31	14.09	0-1	0
	50	25	14.50	14.26	14.18		0
	50	50	14.44	14.20	14.19		0
	100	0	14.48	14.23	14.15		0
16QAM	1	0	14.53	14.53	14.32	0-1	0
	1	50	14.60	14.47	14.40		0
	1	99	14.60	14.34	14.28		0
	50	0	14.41	14.34	14.19	0-2	0
	50	25	14.55	14.31	14.27		0
	50	50	14.51	14.23	14.23		0
	100	0	14.52	14.27	14.24		0
64QAM	1	0	14.30	14.60	14.00	0-2	0
	1	50	14.31	14.51	14.17		0
	1	99	14.25	14.31	14.20		0
	50	0	14.19	14.20	13.91	0-3	0
	50	25	14.27	14.12	14.01		0
	50	50	14.20	14.02	14.00		0
	100	0	14.26	14.10	13.97		0

Table 8-122
LTE Band 66 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.50	14.13	13.94	0	0
	1	36	14.58	14.24	14.14		0
	1	74	14.37	14.14	14.15		0
	36	0	14.55	14.07	14.09	0-1	0
	36	18	14.58	14.15	14.24		0
	36	37	14.54	14.11	14.26		0
	75	0	14.59	14.13	14.25		0
16QAM	1	0	14.54	14.08	13.98	0-1	0
	1	36	14.48	14.13	14.13		0
	1	74	14.30	14.11	14.09		0
	36	0	14.24	13.95	13.90	0-2	0
	36	18	14.31	13.91	13.95		0
	36	37	14.26	13.95	13.98		0
	75	0	14.29	13.95	13.94		0
64QAM	1	0	14.30	13.95	13.97	0-2	0
	1	36	14.40	13.98	14.10		0
	1	74	14.23	13.97	14.15		0
	36	0	14.18	13.96	13.95	0-3	0
	36	18	14.26	13.90	14.03		0
	36	37	14.16	13.93	14.05		0
	75	0	14.20	13.93	14.00		0

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Table 8-123
LTE Band 66 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.47	14.05	14.02	0	0
	1	25	14.47	14.08	14.12		0
	1	49	14.55	14.08	14.22		0
	25	0	14.58	14.10	14.21	0-1	0
	25	12	14.55	14.15	14.24		0
	25	25	14.56	14.14	14.28		0
	50	0	14.54	14.15	14.25		0
16QAM	1	0	14.56	14.01	13.92	0-1	0
	1	25	14.39	14.02	14.06		0
	1	49	14.56	13.94	14.21		0
	25	0	14.28	13.98	13.95	0-2	0
	25	12	14.22	13.99	13.95		0
	25	25	14.28	13.96	13.98		0
	50	0	14.27	13.94	14.00		0
64QAM	1	0	14.41	13.96	14.13	0-2	0
	1	25	14.39	14.02	14.21		0
	1	49	14.52	13.99	14.30		0
	25	0	14.24	13.93	14.03	0-3	0
	25	12	14.24	13.99	14.06		0
	25	25	14.28	13.95	14.10		0
	50	0	14.26	13.97	14.07		0

Table 8-124
LTE Band 66 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.44	14.08	13.98	0	0
	1	12	14.49	14.10	14.03		0
	1	24	14.45	14.11	14.08		0
	12	0	14.44	14.13	14.19	0-1	0
	12	6	14.46	14.14	14.19		0
	12	13	14.43	14.12	14.19		0
	25	0	14.49	14.16	14.22		0
16QAM	1	0	14.55	13.93	14.14	0-1	0
	1	12	14.51	14.05	14.21		0
	1	24	14.33	14.10	14.15		0
	12	0	14.30	13.90	13.94	0-2	0
	12	6	14.34	13.92	14.01		0
	12	13	14.28	13.94	14.00		0
	25	0	14.31	13.92	13.96		0
64QAM	1	0	14.09	13.91	14.12	0-2	0
	1	12	14.39	14.05	14.10		0
	1	24	14.27	14.28	14.07		0
	12	0	14.14	13.97	14.11	0-3	0
	12	6	14.21	13.94	14.05		0
	12	13	14.20	13.99	14.18		0
	25	0	14.17	13.92	14.09		0

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Table 8-125
LTE Band 66 Conducted Powers Ant 2b - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.30	13.95	14.09	0	0
	1	7	14.39	14.01	14.13		0
	1	14	14.36	13.97	14.10		0
	8	0	14.42	14.07	14.24	0-1	0
	8	4	14.44	14.07	14.23		0
	8	7	14.45	14.06	14.24		0
	15	0	14.46	14.11	14.25		0
16QAM	1	0	14.45	14.05	14.00	0-1	0
	1	7	14.39	13.90	14.23		0
	1	14	14.27	13.97	14.05		0
	8	0	14.19	13.94	13.95	0-2	0
	8	4	14.23	13.92	14.00		0
	8	7	14.22	13.99	13.99		0
	15	0	14.19	13.92	13.98		0
64QAM	1	0	14.14	13.91	14.29	0-2	0
	1	7	14.36	13.95	14.11		0
	1	14	14.40	14.11	14.19		0
	8	0	14.18	13.92	14.12	0-3	0
	8	4	14.20	13.97	14.10		0
	8	7	14.20	13.94	14.12		0
	15	0	14.19	13.91	14.16		0

Table 8-126
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.41	14.05	14.30	0	0
	1	2	14.39	14.03	14.29		0
	1	5	14.40	14.07	14.33		0
	3	0	14.45	14.08	14.24		0
	3	2	14.46	14.09	14.23		0
	3	3	14.47	14.09	14.25		0
	6	0	14.46	14.09	14.25	0-1	0
16QAM	1	0	14.47	13.99	14.13	0-1	0
	1	2	14.35	14.13	14.02		0
	1	5	14.32	13.95	14.16		0
	3	0	14.25	13.98	14.11		0
	3	2	14.23	13.98	14.14		0
	3	3	14.25	13.97	14.10		0
	6	0	14.15	13.94	13.95	0-2	0
64QAM	1	0	14.52	13.97	14.33	0-2	0
	1	2	14.48	14.10	14.21		0
	1	5	14.59	14.21	14.42		0
	3	0	14.41	14.12	14.37		0
	3	2	14.50	14.15	14.35		0
	3	3	14.49	14.10	14.37		0
	6	0	14.43	14.10	14.14	0-3	0

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Table 8-127
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.36	11.28	11.07	0	0
	1	50	11.40	11.30	11.09		0
	1	99	11.25	11.16	11.21		0
	50	0	11.34	11.10	11.05	0-1	0
	50	25	11.42	11.14	11.08		0
	50	50	11.35	11.11	11.18		0
	100	0	11.39	11.13	11.12		0
16QAM	1	0	11.55	11.30	11.28	0-1	0
	1	50	11.58	11.41	11.40		0
	1	99	11.53	11.16	11.13		0
	50	0	10.97	10.91	11.01	0-2	0
	50	25	11.03	10.93	10.92		0
	50	50	10.92	11.00	10.95		0
	100	0	11.00	10.95	10.90		0
64QAM	1	0	11.40	11.30	11.29	0-2	0
	1	50	11.35	11.30	11.30		0
	1	99	11.30	11.05	11.05		0
	50	0	11.00	10.91	11.01	0-3	0
	50	25	11.06	10.90	10.90		0
	50	50	10.93	10.92	10.91		0
	100	0	11.04	10.93	10.92		0

Table 8-128
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.42	11.48	11.18	0	0
	1	36	11.44	11.28	11.12		0
	1	74	11.33	11.15	11.03		0
	36	0	11.62	11.39	11.13	0-1	0
	36	18	11.56	11.39	11.29		0
	36	37	11.46	11.42	11.22		0
	75	0	11.60	11.41	11.24		0
16QAM	1	0	11.74	11.81	11.48	0-1	0
	1	36	11.74	11.73	11.55		0
	1	74	11.47	11.39	11.35		0
	36	0	11.56	11.55	11.12	0-2	0
	36	18	11.45	11.29	11.32		0
	36	37	11.31	11.44	11.20		0
	75	0	11.47	11.39	11.17		0
64QAM	1	0	11.67	11.85	11.46	0-2	0
	1	36	11.67	11.33	11.69		0
	1	74	11.48	11.55	11.24		0
	36	0	11.55	11.42	11.18	0-3	0
	36	18	11.57	11.49	11.29		0
	36	37	11.49	11.43	11.24		0
	75	0	11.48	11.35	11.27		0

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Table 8-129
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.60	11.49	11.28	0	0
	1	25	11.64	11.28	11.02		0
	1	49	11.64	11.21	11.06		0
	25	0	11.53	11.40	11.14	0-1	0
	25	12	11.65	11.36	11.19		0
	25	25	11.62	11.43	11.14		0
	50	0	11.70	11.44	11.19		0
16QAM	1	0	11.71	11.82	11.55	0-1	0
	1	25	11.81	11.29	11.42		0
	1	49	11.84	11.56	11.22		0
	25	0	11.46	11.56	11.15	0-2	0
	25	12	11.52	11.28	11.23		0
	25	25	11.41	11.47	11.13		0
	50	0	11.53	11.45	11.15		0
64QAM	1	0	11.71	11.83	11.62	0-2	0
	1	25	11.89	11.43	11.53		0
	1	49	11.55	11.84	11.27		0
	25	0	11.44	11.45	11.28	0-3	0
	25	12	11.57	11.47	11.17		0
	25	25	11.61	11.46	11.15		0
	50	0	11.50	11.38	11.23		0

Table 8-130
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.49	11.30	11.13	0	0
	1	12	11.39	11.23	11.12		0
	1	24	11.59	11.17	11.00		0
	12	0	11.46	11.29	11.08	0-1	0
	12	6	11.50	11.37	11.07		0
	12	13	11.57	11.34	11.09		0
	25	0	11.53	11.44	11.09		0
16QAM	1	0	11.65	11.68	11.46	0-1	0
	1	12	11.66	11.44	11.29		0
	1	24	11.65	11.66	11.18		0
	12	0	11.41	11.46	11.07	0-2	0
	12	6	11.32	11.27	11.18		0
	12	13	11.42	11.40	11.04		0
	25	0	11.37	11.41	11.00		0
64QAM	1	0	11.51	11.83	11.44	0-2	0
	1	12	11.54	11.57	11.03		0
	1	24	11.57	11.66	11.19		0
	12	0	11.39	11.25	11.16	0-3	0
	12	6	11.43	11.40	11.00		0
	12	13	11.57	11.34	11.03		0
	25	0	11.41	11.42	11.12		0

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Table 8-131
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.44	11.25	11.08	0	0
	1	7	11.34	11.18	11.10		0
	1	14	11.42	11.10	11.03		0
	8	0	11.52	11.22	11.01	0-1	0
	8	4	11.44	11.30	11.00		0
	8	7	11.49	11.27	11.02		0
	15	0	11.56	11.37	11.02		0
16QAM	1	0	11.52	11.61	11.39	0-1	0
	1	7	11.60	11.37	11.22		0
	1	14	11.59	11.59	11.11		0
	8	0	11.35	11.39	11.00	0-2	0
	8	4	11.26	11.20	11.15		0
	8	7	11.36	11.33	11.01		0
	15	0	11.31	11.34	10.97		0
64QAM	1	0	11.45	11.76	11.41	0-2	0
	1	7	11.48	11.50	11.00		0
	1	14	11.51	11.59	11.16		0
	8	0	11.33	11.18	11.13	0-3	0
	8	4	11.37	11.33	10.97		0
	8	7	11.51	11.27	11.00		0
	15	0	11.35	11.35	11.09		0

Table 8-132
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.57	11.44	11.23	0	0
	1	2	11.61	11.23	10.97		0
	1	5	11.61	11.16	11.01		0
	3	0	11.50	11.35	11.09		0
	3	2	11.62	11.31	11.14		0
	3	3	11.54	11.38	11.09		0
	6	0	11.62	11.39	11.14	0-1	0
16QAM	1	0	11.65	11.81	11.49	0-1	0
	1	2	11.72	11.24	11.36		0
	1	5	11.76	11.51	11.16		0
	3	0	11.38	11.51	11.09		0
	3	2	11.44	11.23	11.17		0
	3	3	11.33	11.43	11.07		0
	6	0	11.45	11.41	11.09	0-2	0
64QAM	1	0	11.70	11.79	11.56	0-2	0
	1	2	11.87	11.39	11.47		0
	1	5	11.54	11.80	11.20		0
	3	0	11.43	11.41	11.21		0
	3	2	11.56	11.43	11.10		0
	3	3	11.60	11.42	11.08		0
	6	0	11.55	11.34	11.16	0-3	0

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Table 8-133
LTE Band 66 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.40	14.21	14.21	0	0
	1	50	14.30	14.14	14.19		0
	1	99	14.24	14.32	14.22		0
	50	0	14.49	14.23	14.15	0-1	0
	50	25	14.44	14.14	14.14		0
	50	50	14.36	14.11	14.13		0
	100	0	14.39	14.14	14.18		0
16QAM	1	0	14.48	14.04	14.33	0-1	0
	1	50	14.36	13.96	14.19		0
	1	99	14.50	14.12	14.28		0
	50	0	14.27	13.94	14.00	0-2	0
	50	25	14.22	13.88	13.90		0
	50	50	14.11	13.87	13.91		0
	100	0	14.21	13.91	13.90		0
64QAM	1	0	14.21	14.27	14.10	0-2	0
	1	50	14.36	14.25	14.11		0
	1	99	14.19	14.35	14.28		0
	50	0	14.22	14.01	13.95	0-3	0
	50	25	14.18	14.06	14.03		0
	50	50	14.14	14.00	14.16		0
	100	0	14.16	14.06	14.03		0

Table 8-134
LTE Band 66 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.96	14.02	13.86	0	0
	1	36	14.03	14.08	13.77		0
	1	74	13.92	14.02	13.79		0
	36	0	14.03	14.17	13.86	0-1	0
	36	18	14.14	14.42	13.89		0
	36	37	14.11	14.12	13.88		0
	75	0	14.11	14.14	13.83		0
16QAM	1	0	14.03	13.91	14.01	0-1	0
	1	36	14.16	14.08	14.15		0
	1	74	13.84	13.87	13.98		0
	36	0	13.83	13.81	13.85	0-2	0
	36	18	13.93	13.88	13.90		0
	36	37	13.89	13.82	13.85		0
	75	0	13.88	13.80	13.83		0
64QAM	1	0	13.92	13.98	14.06	0-2	0
	1	36	14.05	14.08	13.93		0
	1	74	13.92	14.07	13.92		0
	36	0	13.79	13.92	13.68	0-3	0
	36	18	13.82	13.95	13.72		0
	36	37	13.82	13.95	13.75		0
	75	0	13.76	13.91	13.63		0

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Table 8-135
LTE Band 66 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.01	14.06	13.85	0	0
	1	25	13.89	13.99	13.84		0
	1	49	14.02	13.94	13.89		0
	25	0	14.07	14.11	13.92	0-1	0
	25	12	13.97	14.09	13.92		0
	25	25	14.06	14.09	13.97		0
	50	0	13.96	14.09	13.92		0
16QAM	1	0	13.94	13.95	13.99	0-1	0
	1	25	13.73	13.99	13.94		0
	1	49	13.79	14.10	13.95		0
	25	0	13.72	13.85	13.87	0-2	0
	25	12	13.64	13.84	13.91		0
	25	25	13.71	13.87	13.94		0
	50	0	13.63	13.89	13.86		0
64QAM	1	0	13.86	14.09	14.29	0-2	0
	1	25	13.79	14.02	14.40		0
	1	49	14.15	14.13	14.29		0
	25	0	13.80	13.90	13.85	0-3	0
	25	12	13.79	13.86	13.87		0
	25	25	13.79	13.86	13.96		0
	50	0	13.77	13.88	13.87		0

Table 8-136
LTE Band 66 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.78	13.84	13.65	0	0
	1	12	13.70	13.81	13.71		0
	1	24	13.77	13.80	13.83		0
	12	0	13.96	13.93	13.86	0-1	0
	12	6	13.96	13.95	13.92		0
	12	13	13.88	13.92	13.95		0
	25	0	13.96	13.93	13.94		0
16QAM	1	0	14.40	13.86	13.86	0-1	0
	1	12	13.75	13.85	13.98		0
	1	24	13.77	13.82	13.94		0
	12	0	13.69	13.83	13.81	0-2	0
	12	6	13.68	13.74	13.91		0
	12	13	13.61	13.77	13.87		0
	25	0	13.65	13.77	13.89		0
64QAM	1	0	13.78	14.14	13.89	0-2	0
	1	12	13.79	13.93	13.95		0
	1	24	13.65	13.85	13.84		0
	12	0	13.71	13.81	13.75	0-3	0
	12	6	13.74	13.81	13.84		0
	12	13	13.65	13.73	13.81		0
	25	0	13.65	13.83	13.83		0

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Table 8-137
LTE Band 66 Conducted Powers Ant 4a - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.27	14.04	13.97	0	0
	1	7	14.25	14.13	14.03		0
	1	14	14.18	14.08	13.97		0
	8	0	14.28	14.15	14.12	0-1	0
	8	4	14.28	14.15	14.10		0
	8	7	14.26	14.15	14.10		0
	15	0	14.27	14.17	14.14		0
16QAM	1	0	14.22	14.15	13.92	0-1	0
	1	7	14.29	14.19	14.01		0
	1	14	14.18	13.95	13.93		0
	8	0	14.00	13.90	13.86	0-2	0
	8	4	14.10	13.90	13.90		0
	8	7	14.07	13.90	13.88		0
	15	0	14.07	13.88	13.88		0
64QAM	1	0	14.23	13.95	14.15	0-2	0
	1	7	14.31	14.14	14.12		0
	1	14	14.32	14.08	14.12		0
	8	0	14.11	13.90	13.84	0-3	0
	8	4	14.12	13.91	13.89		0
	8	7	14.11	13.92	13.91		0
	15	0	14.15	13.98	13.92		0

Table 8-138
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.41	14.16	14.24	0	0
	1	2	14.26	14.14	14.23		0
	1	5	14.25	14.15	14.23		0
	3	0	14.26	14.04	14.17		0
	3	2	14.25	14.05	14.19		0
	3	3	14.26	14.04	14.17		0
	6	0	14.25	14.05	14.18	0-1	0
16QAM	1	0	14.25	14.04	14.24	0-1	0
	1	2	14.04	13.87	14.07		0
	1	5	14.18	13.87	14.09		0
	3	0	14.23	13.99	14.17		0
	3	2	14.08	13.86	13.97		0
	3	3	14.06	13.95	13.99		0
	6	0	14.06	13.90	14.01	0-2	0
64QAM	1	0	14.13	14.10	14.18	0-2	0
	1	2	14.21	13.98	14.10		0
	1	5	14.17	14.14	14.18		0
	3	0	14.21	14.21	14.13		0
	3	2	14.19	13.93	14.20		0
	3	3	14.18	13.92	14.12		0
	6	0	14.01	13.85	13.92	0-3	0

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Table 8-139
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.08	10.99	11.07	0	0
	1	50	11.16	10.78	11.19		0
	1	99	11.31	10.84	11.22		0
	50	0	11.13	11.00	11.13	0-1	0
	50	25	11.12	10.89	11.11		0
	50	50	11.11	10.88	11.14		0
	100	0	11.10	10.90	11.11		0
16QAM	1	0	11.32	11.23	11.21	0-1	0
	1	50	11.27	11.05	11.23		0
	1	99	11.22	10.89	11.29		0
	50	0	11.13	10.98	11.37	0-2	0
	50	25	11.10	11.02	11.36		0
	50	50	11.11	10.99	11.39		0
	100	0	11.15	11.03	11.39		0
64QAM	1	0	11.25	11.24	11.31	0-2	0
	1	50	11.26	11.12	11.32		0
	1	99	11.40	11.34	11.31		0
	50	0	11.02	11.13	11.26	0-3	0
	50	25	10.95	10.84	11.27		0
	50	50	10.92	10.97	11.44		0
	100	0	10.96	10.98	11.36		0

Table 8-140
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.29	10.88	11.10	0	0
	1	36	11.14	10.95	11.16		0
	1	74	11.14	10.80	11.38		0
	36	0	10.96	10.88	11.19	0-1	0
	36	18	10.96	10.88	11.34		0
	36	37	10.87	10.82	11.23		0
	75	0	10.95	10.91	11.24		0
16QAM	1	0	11.50	11.04	11.17	0-1	0
	1	36	11.10	10.91	11.43		0
	1	74	10.92	10.89	11.27		0
	36	0	10.75	10.99	11.25	0-2	0
	36	18	10.73	10.88	11.29		0
	36	37	10.68	10.82	11.21		0
	75	0	10.77	10.90	11.18		0
64QAM	1	0	11.25	11.12	11.26	0-2	0
	1	36	10.75	11.01	11.27		0
	1	74	10.88	10.78	11.42		0
	36	0	10.77	10.90	11.33	0-3	0
	36	18	10.88	11.03	11.27		0
	36	37	10.81	10.84	11.27		0
	75	0	10.78	10.85	11.31		0

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Table 8-141
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.20	11.05	11.44	0	0
	1	25	10.81	10.88	11.24		0
	1	49	10.81	10.71	11.46		0
	25	0	11.11	10.95	11.36	0-1	0
	25	12	10.90	10.99	11.39		0
	25	25	10.96	11.04	11.43		0
	50	0	10.96	11.00	11.37		0
16QAM	1	0	11.02	10.87	11.47	0-1	0
	1	25	11.10	10.76	11.18		0
	1	49	10.93	10.84	11.17		0
	25	0	10.69	10.83	11.04	0-2	0
	25	12	10.61	10.74	11.03		0
	25	25	10.61	10.71	11.03		0
	50	0	10.63	10.80	10.92		0
64QAM	1	0	11.01	11.01	11.46	0-2	0
	1	25	10.88	10.83	11.31		0
	1	49	10.82	11.05	11.10		0
	25	0	10.75	10.73	11.19	0-3	0
	25	12	10.76	10.89	11.00		0
	25	25	10.79	10.72	11.02		0
	50	0	10.67	10.79	11.04		0

Table 8-142
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.24	10.88	11.23	0	0
	1	12	11.01	10.79	10.93		0
	1	24	10.99	10.66	11.13		0
	12	0	11.11	10.73	11.10	0-1	0
	12	6	11.01	10.83	11.14		0
	12	13	10.94	10.82	11.20		0
	25	0	11.02	10.92	11.16		0
16QAM	1	0	11.22	10.95	11.27	0-1	0
	1	12	11.14	10.80	11.19		0
	1	24	10.94	10.89	11.34		0
	12	0	10.95	10.88	11.04	0-2	0
	12	6	10.85	10.77	11.19		0
	12	13	10.73	10.91	11.22		0
	25	0	10.82	10.91	11.06		0
64QAM	1	0	11.21	11.20	11.40	0-2	0
	1	12	11.08	11.06	11.42		0
	1	24	10.79	10.92	11.29		0
	12	0	11.10	10.78	11.14	0-3	0
	12	6	11.00	10.98	11.10		0
	12	13	10.86	10.86	11.18		0
	25	0	10.90	10.85	11.16		0

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Table 8-143

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.10	10.91	11.04	0	0
	1	7	11.00	10.92	10.98		0
	1	14	10.91	10.73	11.12		0
	8	0	11.07	10.87	11.00	0-1	0
	8	4	11.02	10.89	11.18		0
	8	7	11.07	10.97	11.22		0
	15	0	11.09	11.00	11.16		0
16QAM	1	0	11.31	10.98	11.15	0-1	0
	1	7	11.37	10.86	11.30		0
	1	14	11.05	10.96	11.03		0
	8	0	10.97	11.13	11.00	0-2	0
	8	4	10.89	10.83	11.17		0
	8	7	10.93	10.97	11.18		0
	15	0	10.94	11.00	11.05		0
64QAM	1	0	11.27	11.07	11.36	0-2	0
	1	7	11.25	11.06	11.32		0
	1	14	10.99	11.08	11.41		0
	8	0	11.03	10.98	11.16	0-3	0
	8	4	10.97	11.02	11.18		0
	8	7	10.98	10.94	11.29		0
	15	0	10.89	10.82	11.26		0

Table 8-144

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.29	10.95	11.33	0	0
	1	2	11.13	10.92	11.11		0
	1	5	11.22	10.76	11.24		0
	3	0	11.06	10.86	11.19		0
	3	2	10.99	10.90	11.27		0
	3	3	11.04	10.91	11.31		0
	6	0	11.00	10.96	11.26	0-1	0
16QAM	1	0	11.41	11.01	11.49	0-1	0
	1	2	11.10	11.01	11.44		0
	1	5	11.07	11.12	11.34		0
	3	0	10.96	11.08	11.29		0
	3	2	11.00	10.79	11.33		0
	3	3	10.91	11.03	11.30		0
	6	0	10.89	11.00	11.24	0-2	0
64QAM	1	0	11.18	11.08	11.24	0-2	0
	1	2	11.17	11.05	11.27		0
	1	5	11.10	11.12	11.32		0
	3	0	10.96	11.01	11.35		0
	3	2	10.96	11.02	11.27		0
	3	3	11.13	11.01	11.33		0
	6	0	10.90	10.94	11.30	0-3	0

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Table 8-145
LTE Band 66 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.01	13.60	13.61	0	0
	1	50	13.92	13.77	13.58		0
	1	99	13.65	13.74	13.68		0
	50	0	13.80	13.71	13.65	0-1	0
	50	25	13.73	13.78	13.69		0
	50	50	13.61	13.72	13.65		0
	100	0	13.73	13.77	13.66		0
16QAM	1	0	13.74	13.65	13.80	0-1	0
	1	50	13.81	13.85	13.77		0
	1	99	13.50	13.67	13.91		0
	50	0	13.61	13.57	13.50	0-2	0
	50	25	13.63	13.66	13.52		0
	50	50	13.54	13.50	13.51		0
	100	0	13.67	13.60	13.50		0
64QAM	1	0	13.93	13.52	13.54	0-2	0
	1	50	13.88	13.81	13.52		0
	1	99	13.50	13.72	13.54		0
	50	0	13.62	13.52	13.50	0-3	0
	50	25	13.63	13.65	13.56		0
	50	50	13.50	13.55	13.54		0
	100	0	13.59	13.60	13.56		0

Table 8-146
LTE Band 66 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.90	13.94	13.58	0	0
	1	36	13.86	13.96	13.56		0
	1	74	13.60	13.75	13.71		0
	36	0	13.91	13.83	13.78	0-1	0
	36	18	13.93	13.87	13.68		0
	36	37	13.85	13.76	13.74		0
	75	0	13.91	13.84	13.67		0
16QAM	1	0	13.93	13.85	13.56	0-1	0
	1	36	13.72	13.97	13.54		0
	1	74	13.52	13.80	13.59		0
	36	0	13.74	13.62	13.66	0-2	0
	36	18	13.75	13.78	13.55		0
	36	37	13.61	13.63	13.58		0
	75	0	13.75	13.71	13.57		0
64QAM	1	0	13.94	13.71	13.54	0-2	0
	1	36	13.81	13.97	13.56		0
	1	74	13.59	13.67	13.51		0
	36	0	13.72	13.63	13.68	0-3	0
	36	18	13.75	13.77	13.55		0
	36	37	13.62	13.63	13.60		0
	75	0	13.75	13.71	13.52		0

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Table 8-147
LTE Band 66 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.99	13.79	13.68	0	0
	1	25	13.86	13.84	13.65		0
	1	49	13.81	13.82	13.76		0
	25	0	14.04	13.87	13.69	0-1	0
	25	12	13.93	13.92	13.74		0
	25	25	13.93	13.86	13.84		0
	50	0	13.94	13.91	13.75		0
16QAM	1	0	13.81	13.61	13.69	0-1	0
	1	25	13.82	13.72	13.54		0
	1	49	13.86	13.54	13.61		0
	25	0	13.84	13.59	13.50	0-2	0
	25	12	13.73	13.62	13.55		0
	25	25	13.70	13.57	13.64		0
	50	0	13.73	13.65	13.58		0
64QAM	1	0	14.01	13.74	13.60	0-2	0
	1	25	13.87	13.71	13.52		0
	1	49	13.61	13.51	13.60		0
	25	0	13.78	13.56	13.50	0-3	0
	25	12	13.72	13.62	13.57		0
	25	25	13.72	13.57	13.59		0
	50	0	13.73	13.64	13.54		0

Table 8-148
LTE Band 66 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.09	13.84	13.56	0	0
	1	12	13.99	13.86	13.62		0
	1	24	13.89	13.80	13.66		0
	12	0	13.98	13.90	13.67	0-1	0
	12	6	13.97	13.84	13.77		0
	12	13	13.87	13.85	13.80		0
	25	0	13.97	13.87	13.79		0
16QAM	1	0	13.91	13.59	13.66	0-1	0
	1	12	13.80	13.79	13.53		0
	1	24	13.83	13.76	13.52		0
	12	0	13.71	13.56	13.58	0-2	0
	12	6	13.80	13.69	13.53		0
	12	13	13.68	13.61	13.59		0
	25	0	13.72	13.65	13.64		0
64QAM	1	0	13.97	13.67	13.66	0-2	0
	1	12	13.92	13.63	13.65		0
	1	24	13.88	13.62	13.57		0
	12	0	13.72	13.67	13.54	0-3	0
	12	6	13.70	13.62	13.56		0
	12	13	13.74	13.68	13.56		0
	25	0	13.74	13.66	13.51		0

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Table 8-149
LTE Band 66 Conducted Powers Ant 4b - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.88	13.78	13.69	0	0
	1	7	13.91	13.85	13.76		0
	1	14	13.85	13.77	13.71		0
	8	0	13.98	13.90	13.82	0-1	0
	8	4	13.96	13.90	13.85		0
	8	7	13.96	13.91	13.85		0
	15	0	13.99	13.93	13.86		0
16QAM	1	0	13.95	13.73	13.50	0-1	0
	1	7	13.88	13.74	13.52		0
	1	14	13.78	13.70	13.51		0
	8	0	13.80	13.61	13.52	0-2	0
	8	4	13.82	13.62	13.54		0
	8	7	13.78	13.71	13.54		0
	15	0	13.78	13.68	13.56		0
64QAM	1	0	13.83	13.64	13.50	0-2	0
	1	7	13.95	13.77	13.54		0
	1	14	13.79	13.63	13.58		0
	8	0	13.85	13.64	13.54	0-3	0
	8	4	13.78	13.64	13.58		0
	8	7	13.82	13.62	13.55		0
	15	0	13.88	13.63	13.55		0

Table 8-150
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.88	13.54	14.05	0	0
	1	2	13.90	13.60	13.95		0
	1	5	13.84	13.64	13.85		0
	3	0	13.94	13.65	13.94		0
	3	2	13.88	13.75	13.93		0
	3	3	13.89	13.78	13.83		0
	6	0	13.91	13.77	13.93	0-1	0
16QAM	1	0	13.53	13.61	13.53	0-1	0
	1	2	13.58	13.81	13.51		0
	1	5	13.57	13.78	13.56		0
	3	0	13.59	13.58	13.63		0
	3	2	13.50	13.71	13.52		0
	3	3	13.50	13.63	13.55	0	
64QAM	6	0	13.52	13.67	13.55	0-2	0
	1	0	13.66	13.69	13.51	0-2	0
	1	2	13.50	13.65	13.53		0
	1	5	13.60	13.64	13.52		0
	3	0	13.50	13.69	13.65		0
	3	2	13.54	13.64	13.52		0
	3	3	13.51	13.70	13.57		0
6	0	13.51	13.68	13.50	0-3	0	

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Table 8-151
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.37	11.43	11.43	0	0
	1	50	11.32	11.39	11.36		0
	1	99	11.41	11.50	11.33		0
	50	0	11.21	11.50	11.28	0-1	0
	50	25	11.26	11.46	11.43		0
	50	50	11.35	11.40	11.47		0
	100	0	11.32	11.41	11.46		0
16QAM	1	0	10.80	11.06	11.20	0-1	0
	1	50	10.84	10.81	11.30		0
	1	99	10.88	11.00	11.29		0
	50	0	10.80	10.68	10.71	0-2	0
	50	25	10.71	10.71	10.90		0
	50	50	10.66	10.75	11.00		0
	100	0	10.70	10.70	10.99		0
64QAM	1	0	10.93	11.05	11.20	0-2	0
	1	50	10.80	11.20	10.90		0
	1	99	10.71	11.24	11.04		0
	50	0	10.77	10.84	10.71	0-3	0
	50	25	10.66	10.83	10.72		0
	50	50	10.68	10.80	10.81		0
	100	0	10.69	10.79	10.82		0

Table 8-152
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.36	11.42	11.29	0	0
	1	36	11.44	11.44	11.45		0
	1	74	11.42	11.48	11.43		0
	36	0	11.41	11.45	11.41	0-1	0
	36	18	11.39	11.37	11.38		0
	36	37	11.40	11.42	11.44		0
	75	0	11.39	11.35	11.47		0
16QAM	1	0	11.13	11.45	11.16	0-1	0
	1	36	11.01	11.26	11.46		0
	1	74	11.01	11.27	11.25		0
	36	0	10.82	11.07	10.76	0-2	0
	36	18	10.86	10.96	10.93		0
	36	37	10.75	10.94	10.91		0
	75	0	10.84	10.90	10.94		0
64QAM	1	0	11.06	11.38	11.26	0-2	0
	1	36	11.06	11.36	11.37		0
	1	74	10.96	11.00	11.24		0
	36	0	10.85	11.05	10.75	0-3	0
	36	18	10.85	10.98	10.92		0
	36	37	10.75	10.87	10.93		0
	75	0	10.86	10.93	10.92		0

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Table 8-153
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.42	11.32	11.37	0	0
	1	25	11.30	11.26	11.36		0
	1	49	11.26	11.23	11.27		0
	25	0	11.24	11.36	11.23	0-1	0
	25	12	11.27	11.25	11.21		0
	25	25	11.22	11.25	11.19		0
	50	0	11.24	11.28	11.25		0
16QAM	1	0	11.21	11.33	11.13	0-1	0
	1	25	11.09	11.12	11.20		0
	1	49	11.03	10.96	10.95		0
	25	0	10.85	10.87	10.77	0-2	0
	25	12	10.77	10.78	10.75		0
	25	25	10.74	10.77	10.71		0
	50	0	10.74	10.80	10.75		0
64QAM	1	0	11.31	11.05	10.97	0-2	0
	1	25	11.00	11.07	11.03		0
	1	49	11.20	11.15	11.06		0
	25	0	10.83	10.89	10.71	0-3	0
	25	12	10.73	10.77	10.73		0
	25	25	10.72	10.83	10.71		0
	50	0	10.73	10.81	10.70		0

Table 8-154
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.37	11.34	11.24	0	0
	1	12	11.31	11.23	11.17		0
	1	24	11.31	11.24	11.17		0
	12	0	11.39	11.33	11.24	0-1	0
	12	6	11.33	11.34	11.20		0
	12	13	11.24	11.35	11.20		0
	25	0	11.38	11.36	11.22		0
16QAM	1	0	11.12	11.27	10.84	0-1	0
	1	12	11.00	11.19	10.82		0
	1	24	11.02	11.12	10.92		0
	12	0	10.81	10.90	10.78	0-2	0
	12	6	10.90	10.86	10.68		0
	12	13	10.79	10.90	10.73		0
	25	0	10.85	10.88	10.75		0
64QAM	1	0	11.12	11.26	10.96	0-2	0
	1	12	11.04	11.08	10.82		0
	1	24	11.05	11.16	10.86		0
	12	0	10.88	10.92	10.77	0-3	0
	12	6	10.81	10.93	10.72		0
	12	13	10.78	10.88	10.78		0
	25	0	10.86	10.89	10.76		0

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Table 8-155

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.40	11.16	11.34	0	0
	1	7	11.42	11.22	11.39		0
	1	14	11.37	11.20	11.31		0
	8	0	11.36	11.32	11.37	0-1	0
	8	4	11.37	11.31	11.40		0
	8	7	11.40	11.32	11.39		0
	15	0	11.38	11.32	11.39		0
16QAM	1	0	11.24	11.20	11.41	0-1	0
	1	7	11.22	10.91	11.20		0
	1	14	11.37	11.04	11.25		0
	8	0	10.97	10.88	10.89	0-2	0
	8	4	11.00	10.87	10.93		0
	8	7	11.01	10.90	10.93		0
	15	0	10.95	10.85	10.96		0
64QAM	1	0	11.25	11.13	11.36	0-2	0
	1	7	11.31	10.96	11.20		0
	1	14	11.25	11.11	11.12		0
	8	0	10.92	10.86	10.95	0-3	0
	8	4	10.91	10.81	10.99		0
	8	7	10.93	10.88	10.92		0
	15	0	10.92	10.84	10.95		0

Table 8-156

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.39	11.50	11.25	0	0
	1	2	11.24	11.43	11.09		0
	1	5	11.05	11.41	11.16		0
	3	0	11.33	11.41	11.17		0
	3	2	11.28	11.42	11.22		0
	3	3	11.18	11.36	11.43		0
	6	0	11.29	11.31	11.39	0-1	0
16QAM	1	0	11.21	11.22	11.33	0-1	0
	1	2	11.26	11.24	11.21		0
	1	5	11.02	11.46	11.09		0
	3	0	10.87	10.87	10.88		0
	3	2	10.82	10.84	10.96		0
	3	3	10.67	10.85	10.97		0
	6	0	10.81	10.80	10.92	0-2	0
64QAM	1	0	11.26	11.23	11.28	0-2	0
	1	2	11.19	11.17	11.19		0
	1	5	11.02	11.38	11.14		0
	3	0	10.92	10.84	10.89		0
	3	2	10.82	10.80	10.95		0
	3	3	10.67	10.80	10.95		0
	6	0	10.83	10.80	10.91	0-3	0

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LTE Band 2

Table 8-157
LTE Band 2 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.74	14.88	15.00	0	0
	1	50	14.86	14.93	15.10		0
	1	99	14.79	14.72	15.06		0
	50	0	14.85	14.97	14.93	0-1	0
	50	25	14.87	14.96	15.06		0
	50	50	14.76	14.84	15.01		0
	100	0	14.84	14.90	15.00		0
16QAM	1	0	15.02	14.86	14.94	0-1	0
	1	50	15.02	14.96	15.04		0
	1	99	14.96	14.60	14.94		0
	50	0	14.40	14.54	14.47	0-2	0
	50	25	14.46	14.59	14.58		0
	50	50	14.30	14.39	14.50		0
	100	0	14.41	14.54	14.57		0
64QAM	1	0	14.73	14.93	14.91	0-2	0
	1	50	14.87	15.05	15.04		0
	1	99	14.80	14.93	14.77		0
	50	0	14.41	14.57	14.46	0-3	0
	50	25	14.47	14.55	14.55		0
	50	50	14.29	14.47	14.49		0
	100	0	14.43	14.59	14.57		0

Table 8-158
LTE Band 2 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.55	14.90	14.63	0	0
	1	36	14.76	15.01	14.86		0
	1	74	14.57	14.78	14.67		0
	36	0	14.74	14.78	14.78	0-1	0
	36	18	14.83	14.90	14.92		0
	36	37	14.77	14.82	14.82		0
	75	0	14.81	14.89	14.90		0
16QAM	1	0	14.83	15.10	14.72	0-1	0
	1	36	15.02	15.06	15.05		0
	1	74	14.78	14.94	14.97		0
	36	0	14.79	14.83	14.84	0-2	0
	36	18	14.86	14.95	14.98		0
	36	37	14.79	14.88	14.85		0
	75	0	14.83	14.91	14.92		0
64QAM	1	0	14.80	15.07	14.90	0-2	0
	1	36	14.99	15.10	15.09		0
	1	74	14.78	15.01	14.90		0
	36	0	14.80	14.83	14.83	0-3	0
	36	18	14.85	14.94	14.93		0
	36	37	14.78	14.88	14.88		0
	75	0	14.84	14.93	14.92		0

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Table 8-159
LTE Band 2 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.59	14.80	14.80	0	0
	1	25	14.68	14.73	14.75		0
	1	49	14.78	14.67	14.81		0
	25	0	14.64	14.76	14.87	0-1	0
	25	12	14.74	14.81	14.81		0
	25	25	14.79	14.80	14.83		0
50	0	14.76	14.82	14.82	0		
16QAM	1	0	14.69	15.04	14.97	0-1	0
	1	25	14.93	15.01	14.93		0
	1	49	15.03	14.90	15.02		0
	25	0	14.68	14.80	14.89	0-2	0
	25	12	14.79	14.82	14.85		0
	25	25	14.75	14.82	14.85		0
50	0	14.78	14.85	14.86	0		
64QAM	1	0	14.93	15.06	15.06	0-2	0
	1	25	14.93	15.00	15.01		0
	1	49	14.99	14.94	15.06		0
	25	0	14.66	14.80	14.90	0-3	0
	25	12	14.76	14.84	14.83		0
	25	25	14.78	14.85	14.83		0
50	0	14.77	14.86	14.86	0		

Table 8-160
LTE Band 2 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.63	14.76	14.70	0	0
	1	12	14.68	14.78	14.64		0
	1	24	14.80	14.80	14.73		0
	12	0	14.59	14.78	14.77	0-1	0
	12	6	14.60	14.80	14.76		0
	12	13	14.70	14.84	14.72		0
	25	0	14.62	14.81	14.76		0
16QAM	1	0	14.80	15.00	14.75	0-1	0
	1	12	14.93	15.01	14.75		0
	1	24	14.95	15.02	14.91		0
	12	0	14.72	14.83	14.83	0-2	0
	12	6	14.66	14.90	14.85		0
	12	13	14.69	14.88	14.77		0
	25	0	14.64	14.90	14.80		0
64QAM	1	0	14.75	15.01	15.03	0-2	0
	1	12	14.80	15.01	14.95		0
	1	24	15.05	15.09	14.79		0
	12	0	14.69	14.85	14.83	0-3	0
	12	6	14.70	14.85	14.78		0
	12	13	14.78	14.89	14.81		0
	25	0	14.67	14.92	14.78		0

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Table 8-161
LTE Band 2 Conducted Powers Ant 2a - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.42	14.67	14.65	0	0
	1	7	14.54	14.73	14.67		0
	1	14	14.51	14.74	14.66		0
	8	0	14.60	14.78	14.76	0-1	0
	8	4	14.59	14.79	14.74		0
	8	7	14.60	14.81	14.73		0
	15	0	14.62	14.81	14.76		0
16QAM	1	0	14.69	14.91	14.87	0-1	0
	1	7	14.94	14.91	15.03		0
	1	14	14.78	14.98	14.84		0
	8	0	14.63	14.81	14.82	0-2	0
	8	4	14.67	14.87	14.82		0
	8	7	14.63	14.87	14.78		0
	15	0	14.61	14.86	14.83		0
64QAM	1	0	14.62	14.87	14.85	0-2	0
	1	7	14.83	14.91	14.84		0
	1	14	14.76	14.99	14.86		0
	8	0	14.60	14.87	14.83	0-3	0
	8	4	14.64	14.85	14.79		0
	8	7	14.68	14.82	14.72		0
	15	0	14.63	14.87	14.79		0

Table 8-162
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.32	14.57	14.55	0	0
	1	2	14.44	14.63	14.57		0
	1	5	14.41	14.64	14.56		0
	3	0	14.50	14.68	14.66		0
	3	2	14.49	14.69	14.64		0
	3	3	14.50	14.71	14.63		0
	6	0	14.52	14.71	14.66	0-1	0
16QAM	1	0	14.59	14.81	14.77	0-1	0
	1	2	14.84	14.81	14.93		0
	1	5	14.88	14.96	14.70		0
	3	0	14.87	14.97	14.86		0
	3	2	14.67	14.78	14.78		0
	3	3	14.61	14.85	14.80		0
	6	0	14.64	14.86	14.72	0-2	0
64QAM	1	0	14.59	14.85	14.75	0-2	0
	1	2	14.70	14.96	14.98		0
	1	5	14.75	14.96	14.90		0
	3	0	14.90	15.06	14.74		0
	3	2	14.64	14.80	14.78		0
	3	3	14.65	14.80	14.73		0
	6	0	14.74	14.84	14.76	0-3	0

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Table 8-163

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.65	11.47	11.81	0	0
	1	50	11.61	11.57	11.95		0
	1	99	11.75	11.51	12.01		0
	50	0	11.57	11.56	11.64	0-1	0
	50	25	11.55	11.63	11.83		0
	50	50	11.56	11.63	11.74		0
	100	0	11.53	11.63	11.82		0
16QAM	1	0	11.78	11.55	11.83	0-1	0
	1	50	11.58	11.67	12.07		0
	1	99	11.78	11.75	11.93		0
	50	0	11.59	11.48	11.65	0-2	0
	50	25	11.58	11.65	11.80		0
	50	50	11.54	11.66	11.72		0
	100	0	11.62	11.63	11.83		0
64QAM	1	0	11.83	11.90	11.67	0-2	0
	1	50	11.84	11.88	12.02		0
	1	99	11.82	11.95	12.02		0
	50	0	11.61	11.60	11.69	0-3	0
	50	25	11.60	11.69	11.93		0
	50	50	11.52	11.63	11.82		0
	100	0	11.61	11.64	11.91		0

Table 8-164

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.74	11.74	11.76	0	0
	1	36	11.75	11.61	11.70		0
	1	74	11.75	11.69	11.61		0
	36	0	11.71	11.68	11.62	0-1	0
	36	18	11.69	11.71	11.58		0
	36	37	11.74	11.69	11.42		0
	75	0	11.71	11.70	11.59		0
16QAM	1	0	11.84	11.80	11.93	0-1	0
	1	36	11.88	11.69	11.79		0
	1	74	11.96	11.82	11.77		0
	36	0	11.77	11.74	11.67	0-2	0
	36	18	11.71	11.75	11.64		0
	36	37	11.78	11.72	11.49		0
	75	0	11.70	11.71	11.59		0
64QAM	1	0	11.74	12.00	11.95	0-2	0
	1	36	11.83	12.01	11.90		0
	1	74	11.77	12.03	11.95		0
	36	0	11.68	11.73	11.69	0-3	0
	36	18	11.66	11.75	11.65		0
	36	37	11.72	11.75	11.51		0
	75	0	11.65	11.71	11.63		0

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Table 8-165
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.66	11.55	11.54	0	0
	1	25	11.78	11.56	11.41		0
	1	49	11.68	11.59	11.47		0
	25	0	11.66	11.66	11.63	0-1	0
	25	12	11.65	11.62	11.51		0
	25	25	11.65	11.63	11.62		0
	50	0	11.65	11.64	11.52		0
16QAM	1	0	11.60	11.73	11.91	0-1	0
	1	25	11.81	11.79	11.77		0
	1	49	11.69	11.74	11.84		0
	25	0	11.68	11.68	11.65	0-2	0
	25	12	11.69	11.66	11.49		0
	25	25	11.70	11.68	11.62		0
	50	0	11.66	11.66	11.56		0
64QAM	1	0	11.82	11.87	11.68	0-2	0
	1	25	11.79	11.77	11.60		0
	1	49	11.76	11.94	11.72		0
	25	0	11.70	11.72	11.64	0-3	0
	25	12	11.70	11.67	11.54		0
	25	25	11.70	11.70	11.65		0
	50	0	11.66	11.65	11.57		0

Table 8-166
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.71	11.70	11.76	0	0
	1	12	11.72	11.57	11.70		0
	1	24	11.72	11.65	11.61		0
	12	0	11.68	11.64	11.62	0-1	0
	12	6	11.66	11.67	11.58		0
	12	13	11.71	11.65	11.42		0
	25	0	11.68	11.66	11.59		0
16QAM	1	0	11.81	11.76	11.93	0-1	0
	1	12	11.85	11.65	11.77		0
	1	24	11.93	11.80	11.75		0
	12	0	11.74	11.72	11.65	0-2	0
	12	6	11.70	11.73	11.62		0
	12	13	11.77	11.70	11.47		0
	25	0	11.69	11.69	11.57		0
64QAM	1	0	11.73	12.09	11.93	0-2	0
	1	12	11.82	11.99	11.88		0
	1	24	11.76	11.91	11.93		0
	12	0	11.67	11.71	11.67	0-3	0
	12	6	11.65	11.73	11.63		0
	12	13	11.71	11.73	11.49		0
	25	0	11.64	11.69	11.61		0

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Table 8-167
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.85	11.68	11.56	0	0
	1	7	11.80	11.77	11.79		0
	1	14	11.62	11.74	11.52		0
	8	0	11.73	11.89	11.72	0-1	0
	8	4	11.76	11.86	11.84		0
	8	7	11.72	11.85	11.80		0
	15	0	11.75	11.78	11.80		0
16QAM	1	0	11.78	11.88	11.88	0-1	0
	1	7	11.75	12.07	12.10		0
	1	14	11.48	11.93	11.93		0
	8	0	11.75	11.95	11.74	0-2	0
	8	4	11.78	11.91	11.86		0
	8	7	11.74	11.88	11.80		0
	15	0	11.76	11.80	11.80		0
64QAM	1	0	11.98	11.95	11.73	0-2	0
	1	7	11.93	12.08	11.96		0
	1	14	11.65	12.04	11.64		0
	8	0	11.76	11.94	11.73	0-3	0
	8	4	11.76	11.89	11.85		0
	8	7	11.71	11.87	11.78		0
	15	0	11.74	11.81	11.77		0

Table 8-168
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.92	11.84	11.62	0	0
	1	2	11.85	11.68	11.70		0
	1	5	11.82	11.79	11.68		0
	3	0	11.69	11.86	11.70		0
	3	2	11.70	11.76	11.74		0
	3	3	11.77	11.76	11.75		0
	6	0	11.72	11.72	11.72	0-1	0
16QAM	1	0	11.86	11.98	11.89	0-1	0
	1	2	11.70	11.82	12.02		0
	1	5	11.85	11.92	11.91		0
	3	0	11.73	11.82	11.70		0
	3	2	11.72	11.79	11.72		0
	3	3	11.81	11.75	11.72		0
	6	0	11.71	11.76	11.72	0-2	0
64QAM	1	0	12.01	11.97	11.76	0-2	0
	1	2	11.76	11.97	11.82		0
	1	5	11.98	11.99	11.65		0
	3	0	11.74	11.84	11.71		0
	3	2	11.72	11.82	11.69		0
	3	3	11.81	11.79	11.70		0
	6	0	11.74	11.74	11.75	0-3	0

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Table 8-169
LTE Band 2 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.56	13.70	13.57	0	0
	1	50	13.54	13.64	13.89		0
	1	99	13.58	13.65	13.98		0
	50	0	13.57	13.70	13.62	0-1	0
	50	25	13.62	13.65	13.67		0
	50	50	13.58	13.60	13.89		0
	100	0	13.63	13.59	13.70		0
16QAM	1	0	13.61	13.46	13.70	0-1	0
	1	50	13.76	13.48	13.79		0
	1	99	13.64	13.47	13.95		0
	50	0	13.47	13.42	13.39	0-2	0
	50	25	13.43	13.40	13.46		0
	50	50	13.38	13.37	13.60		0
	100	0	13.50	13.39	13.50		0
64QAM	1	0	13.52	13.45	13.36	0-2	0
	1	50	13.72	13.40	13.52		0
	1	99	13.74	13.38	13.57		0
	50	0	13.32	13.39	13.34	0-3	0
	50	25	13.40	13.29	13.51		0
	50	50	13.29	13.28	13.53		0
	100	0	13.41	13.34	13.51		0

Table 8-170
LTE Band 2 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.28	13.41	13.52	0	0
	1	36	13.52	13.46	13.80		0
	1	74	13.24	13.31	13.82		0
	36	0	13.40	13.48	13.57	0-1	0
	36	18	13.59	13.49	13.68		0
	36	37	13.50	13.42	13.75		0
	75	0	13.59	13.42	13.69		0
16QAM	1	0	13.26	13.57	13.47	0-1	0
	1	36	13.69	13.62	13.85		0
	1	74	13.30	13.39	13.71		0
	36	0	13.15	13.36	13.38	0-2	0
	36	18	13.38	13.36	13.51		0
	36	37	13.30	13.26	13.55		0
	75	0	13.36	13.23	13.48		0
64QAM	1	0	13.54	13.49	13.70	0-2	0
	1	36	13.66	13.71	13.84		0
	1	74	13.58	13.59	13.86		0
	36	0	13.42	13.54	13.65	0-3	0
	36	18	13.62	13.51	13.74		0
	36	37	13.48	13.47	13.80		0
	75	0	13.59	13.42	13.67		0

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Table 8-171
LTE Band 2 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.39	13.49	13.60	0	0
	1	25	13.46	13.34	13.65		0
	1	49	13.57	13.43	13.74		0
	25	0	13.38	13.53	13.69	0-1	0
	25	12	13.42	13.48	13.73		0
	25	25	13.60	13.44	13.75		0
	50	0	13.52	13.41	13.74		0
16QAM	1	0	13.52	13.35	13.65	0-1	0
	1	25	13.50	13.24	13.64		0
	1	49	13.70	13.37	13.76		0
	25	0	13.20	13.30	13.47	0-2	0
	25	12	13.22	13.25	13.48		0
	25	25	13.36	13.18	13.53		0
	50	0	13.28	13.16	13.53		0
64QAM	1	0	13.83	13.80	13.83	0-2	0
	1	25	13.81	13.67	13.85		0
	1	49	13.84	13.74	13.86		0
	25	0	13.43	13.60	13.82	0-3	0
	25	12	13.44	13.53	13.85		0
	25	25	13.62	13.49	13.86		0
	50	0	13.59	13.47	13.79		0

Table 8-172
LTE Band 2 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.46	13.55	13.55	0	0
	1	12	13.44	13.35	13.49		0
	1	24	13.53	13.41	13.61		0
	12	0	13.34	13.44	13.68	0-1	0
	12	6	13.39	13.44	13.63		0
	12	13	13.40	13.38	13.69		0
	25	0	13.38	13.38	13.69		0
16QAM	1	0	13.54	13.64	13.71	0-1	0
	1	12	13.37	13.32	13.56		0
	1	24	13.58	13.48	13.71		0
	12	0	13.11	13.20	13.47	0-2	0
	12	6	13.18	13.25	13.50		0
	12	13	13.21	13.17	13.56		0
	25	0	13.18	13.14	13.48		0
64QAM	1	0	13.57	13.63	13.75	0-2	0
	1	12	13.64	13.88	13.80		0
	1	24	13.73	13.65	13.85		0
	12	0	13.40	13.47	13.80	0-3	0
	12	6	13.49	13.45	13.81		0
	12	13	13.49	13.41	13.82		0
	25	0	13.48	13.39	13.69		0

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Table 8-173
LTE Band 2 Conducted Powers Ant 2b - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.30	13.33	13.49	0	0
	1	7	13.40	13.28	13.58		0
	1	14	13.31	13.27	13.61		0
	8	0	13.35	13.37	13.62	0-1	0
	8	4	13.39	13.28	13.67		0
	8	7	13.37	13.31	13.70		0
	15	0	13.42	13.33	13.71		0
16QAM	1	0	13.40	13.25	13.38	0-1	0
	1	7	13.51	13.33	13.67		0
	1	14	13.20	13.11	13.64		0
	8	0	13.17	13.18	13.42	0-2	0
	8	4	13.23	13.13	13.50		0
	8	7	13.26	13.10	13.54		0
	15	0	13.20	13.15	13.50		0
64QAM	1	0	13.55	13.72	13.84	0-2	0
	1	7	13.87	13.72	13.85		0
	1	14	13.67	13.67	13.86	0-3	0
	8	0	13.44	13.50	13.75		0
	8	4	13.50	13.39	13.78		0
	8	7	13.51	13.41	13.81		0
	15	0	13.49	13.38	13.84		0

Table 8-174
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.40	13.45	13.79	0	0
	1	2	13.53	13.43	13.77		0
	1	5	13.56	13.41	13.84		0
	3	0	13.42	13.49	13.77		0
	3	2	13.43	13.40	13.77		0
	3	3	13.40	13.44	13.82		0
	6	0	13.42	13.41	13.77	0-1	0
16QAM	1	0	13.56	13.35	13.56	0-1	0
	1	2	13.59	13.35	13.51		0
	1	5	13.62	13.43	13.82		0
	3	0	13.39	13.37	13.50		0
	3	2	13.39	13.19	13.54		0
	3	3	13.36	13.30	13.56		0
	6	0	13.31	13.21	13.58	0-2	0
64QAM	1	0	13.47	13.45	13.85	0-2	0
	1	2	13.76	13.64	13.85		0
	1	5	13.81	13.58	13.84		0
	3	0	13.51	13.47	13.82		0
	3	2	13.49	13.38	13.81		0
	3	3	13.44	13.32	13.84		0
	6	0	13.44	13.34	13.80	0-3	0

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Table 8-175

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.79	10.70	10.88	0	0
	1	50	10.86	10.75	11.09		0
	1	99	10.79	10.73	11.10		0
	50	0	10.83	10.84	10.79	0-1	0
	50	25	10.86	10.84	10.93		0
	50	50	10.68	10.81	11.00		0
	100	0	10.85	10.85	10.97		0
16QAM	1	0	11.10	10.91	11.05	0-1	0
	1	50	11.05	10.89	11.10		0
	1	99	10.87	10.70	11.10		0
	50	0	10.44	10.41	10.29	0-2	0
	50	25	10.38	10.38	10.49		0
	50	50	10.20	10.45	10.60		0
	100	0	10.38	10.38	10.50		0
64QAM	1	0	10.74	10.95	10.94	0-2	0
	1	50	10.88	10.93	11.04		0
	1	99	10.81	10.78	11.10		0
	50	0	10.44	10.44	10.41	0-3	0
	50	25	10.48	10.30	10.51		0
	50	50	10.35	10.39	10.51		0
	100	0	10.46	10.32	10.53		0

Table 8-176

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.50	10.43	10.73	0	0
	1	36	10.64	10.55	10.72		0
	1	74	10.47	10.51	10.82		0
	36	0	10.66	10.42	10.67	0-1	0
	36	18	10.87	10.64	10.84		0
	36	37	10.84	10.69	10.81		0
	75	0	10.90	10.71	10.76		0
16QAM	1	0	10.66	10.39	10.79	0-1	0
	1	36	10.73	10.60	10.84		0
	1	74	10.35	10.49	10.71		0
	36	0	10.25	10.31	10.33	0-2	0
	36	18	10.37	10.28	10.51		0
	36	37	10.39	10.43	10.40		0
	75	0	10.44	10.39	10.39		0
64QAM	1	0	10.46	10.66	10.85	0-2	0
	1	36	10.73	10.41	10.83		0
	1	74	10.31	10.70	10.71		0
	36	0	10.28	10.16	10.42	0-3	0
	36	18	10.55	10.40	10.42		0
	36	37	10.50	10.42	10.44		0
	75	0	10.44	10.34	10.49		0

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Table 8-177

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.62	10.21	10.63	0	0
	1	25	10.61	10.21	10.47		0
	1	49	10.71	10.15	10.81		0
	25	0	10.50	10.13	10.53	0-1	0
	25	12	10.60	10.23	10.64		0
	25	25	10.70	10.35	10.76		0
	50	0	10.64	10.38	10.64		0
16QAM	1	0	10.90	10.73	10.83	0-1	0
	1	25	10.88	10.67	10.80		0
	1	49	10.77	10.80	10.68		0
	25	0	10.43	10.27	10.53	0-2	0
	25	12	10.43	10.16	10.70		0
	25	25	10.54	10.40	10.75		0
	50	0	10.47	10.34	10.54		0
64QAM	1	0	10.75	10.74	10.77	0-2	0
	1	25	10.79	10.70	10.81		0
	1	49	10.68	10.83	10.68		0
	25	0	10.42	10.14	10.64	0-3	0
	25	12	10.55	10.35	10.61		0
	25	25	10.67	10.38	10.77		0
	50	0	10.48	10.34	10.66		0

Table 8-178

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.55	10.33	10.82	0	0
	1	12	10.50	10.34	10.65		0
	1	24	10.63	10.30	10.78		0
	12	0	10.57	10.26	10.70	0-1	0
	12	6	10.53	10.42	10.77		0
	12	13	10.55	10.50	10.77		0
	25	0	10.58	10.54	10.84		0
16QAM	1	0	10.63	10.41	10.62	0-1	0
	1	12	10.66	10.45	10.60		0
	1	24	10.52	10.51	10.72		0
	12	0	10.25	10.35	10.45	0-2	0
	12	6	10.17	10.15	10.58		0
	12	13	10.16	10.35	10.51		0
	25	0	10.16	10.34	10.53		0
64QAM	1	0	10.59	10.46	10.84	0-2	0
	1	12	10.60	10.50	10.70		0
	1	24	10.38	10.50	10.69		0
	12	0	10.31	10.16	10.59	0-3	0
	12	6	10.32	10.32	10.65		0
	12	13	10.29	10.38	10.61		0
	25	0	10.20	10.30	10.70		0

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Table 8-179
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.50	10.28	10.77	0	0
	1	7	10.45	10.29	10.60		0
	1	14	10.58	10.25	10.73		0
	8	0	10.52	10.21	10.65	0-1	0
	8	4	10.48	10.37	10.72		0
	8	7	10.50	10.45	10.72		0
	15	0	10.53	10.49	10.80		0
16QAM	1	0	10.56	10.37	10.60	0-1	0
	1	7	10.59	10.41	10.58		0
	1	14	10.45	10.47	10.70		0
	8	0	10.18	10.31	10.43	0-2	0
	8	4	10.18	10.11	10.56		0
	8	7	10.29	10.31	10.49		0
	15	0	10.29	10.30	10.51		0
64QAM	1	0	10.52	10.42	10.82	0-2	0
	1	7	10.53	10.46	10.68		0
	1	14	10.31	10.46	10.67		0
	8	0	10.24	10.12	10.57	0-3	0
	8	4	10.28	10.28	10.61		0
	8	7	10.25	10.34	10.57		0
	15	0	10.16	10.26	10.66		0

Table 8-180
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.47	10.27	10.72	0	0
	1	2	10.42	10.28	10.55		0
	1	5	10.55	10.24	10.68		0
	3	0	10.49	10.20	10.60		0
	3	2	10.45	10.36	10.67		0
	3	3	10.47	10.44	10.67		0
	6	0	10.50	10.48	10.75	0-1	0
16QAM	1	0	10.53	10.36	10.55	0-1	0
	1	2	10.56	10.40	10.68		0
	1	5	10.21	10.46	10.55		0
	3	0	10.13	10.27	10.67		0
	3	2	10.15	10.17	10.56		0
	3	3	10.12	10.27	10.51		0
	6	0	10.41	10.26	10.69	0-2	0
64QAM	1	0	10.68	10.38	10.50	0-2	0
	1	2	10.65	10.42	10.54		0
	1	5	10.56	10.42	10.34		0
	3	0	10.72	10.18	10.56		0
	3	2	10.55	10.24	10.79		0
	3	3	10.56	10.30	10.62		0
	6	0	10.70	10.22	10.80	0-3	0

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Table 8-181
LTE Band 2 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.53	14.63	14.84	0	0
	1	50	14.38	14.71	14.90		0
	1	99	14.42	14.68	14.73		0
	50	0	14.55	14.43	14.68	0-1	0
	50	25	14.41	14.53	14.71		0
	50	50	14.39	14.52	14.66		0
	100	0	14.41	14.57	14.70		0
16QAM	1	0	14.68	14.70	14.63	0-1	0
	1	50	14.45	14.64	14.80		0
	1	99	14.52	14.51	14.70		0
	50	0	13.93	14.04	14.22	0-2	0
	50	25	13.98	14.07	14.23		0
	50	50	13.94	14.04	14.18		0
	100	0	13.94	14.07	14.22		0
64QAM	1	0	14.60	14.62	14.87	0-2	0
	1	50	14.50	14.70	14.90		0
	1	99	14.45	14.60	14.70		0
	50	0	14.25	14.28	14.57	0-3	0
	50	25	14.19	14.45	14.60		0
	50	50	14.17	14.36	14.50		0
	100	0	14.16	14.42	14.62		0

Table 8-182
LTE Band 2 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.40	14.62	14.66	0	0
	1	36	14.29	14.72	14.79		0
	1	74	14.26	14.67	14.47		0
	36	0	14.37	14.51	14.82	0-1	0
	36	18	14.34	14.58	14.84		0
	36	37	14.30	14.64	14.68		0
	75	0	14.30	14.64	14.78		0
16QAM	1	0	14.56	14.65	14.80	0-1	0
	1	36	14.49	14.84	14.90		0
	1	74	14.44	14.84	14.55		0
	36	0	14.38	14.44	14.61	0-2	0
	36	18	14.33	14.47	14.62		0
	36	37	14.30	14.49	14.67		0
	75	0	14.30	14.44	14.71		0
64QAM	1	0	14.69	14.72	14.79	0-2	0
	1	36	14.38	14.85	14.87		0
	1	74	14.31	14.63	14.66		0
	36	0	14.33	14.55	14.83	0-3	0
	36	18	14.33	14.60	14.87		0
	36	37	14.31	14.65	14.73		0
	75	0	14.32	14.63	14.83		0

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Table 8-183
LTE Band 2 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.59	14.60	14.79	0	0
	1	25	14.53	14.65	14.60		0
	1	49	14.45	14.68	14.60		0
	25	0	14.58	14.58	14.78	0-1	0
	25	12	14.54	14.61	14.74		0
	25	25	14.48	14.68	14.68		0
	50	0	14.54	14.68	14.72		0
16QAM	1	0	14.78	14.74	14.90	0-1	0
	1	25	14.55	14.81	14.68		0
	1	49	14.41	14.85	14.73		0
	25	0	14.42	14.39	14.57	0-2	0
	25	12	14.36	14.41	14.68		0
	25	25	14.31	14.47	14.67		0
	50	0	14.34	14.49	14.52		0
64QAM	1	0	14.68	14.76	14.88	0-2	0
	1	25	14.55	14.80	14.71		0
	1	49	14.49	14.83	14.71		0
	25	0	14.62	14.61	14.80	0-3	0
	25	12	14.56	14.62	14.72		0
	25	25	14.50	14.72	14.65		0
	50	0	14.55	14.70	14.70		0

Table 8-184
LTE Band 2 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.73	14.64	14.66	0	0
	1	12	14.67	14.73	14.58		0
	1	24	14.66	14.75	14.57		0
	12	0	14.68	14.69	14.70	0-1	0
	12	6	14.59	14.72	14.69		0
	12	13	14.55	14.77	14.60		0
	25	0	14.60	14.78	14.71		0
16QAM	1	0	14.80	14.82	14.90	0-1	0
	1	12	14.86	14.81	14.90		0
	1	24	14.70	14.86	14.88		0
	12	0	14.37	14.53	14.71	0-2	0
	12	6	14.45	14.56	14.72		0
	12	13	14.43	14.53	14.67		0
	25	0	14.42	14.56	14.70		0
64QAM	1	0	14.82	14.89	14.83	0-2	0
	1	12	14.68	14.90	14.90		0
	1	24	14.71	14.81	14.83		0
	12	0	14.65	14.77	14.76	0-3	0
	12	6	14.66	14.78	14.78		0
	12	13	14.62	14.84	14.75		0
	25	0	14.63	14.85	14.74		0

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Table 8-185
LTE Band 2 Conducted Powers Ant 4a - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.56	14.50	14.76	0	0
	1	7	14.55	14.63	14.69		0
	1	14	14.51	14.58	14.68		0
	8	0	14.68	14.62	14.87	0-1	0
	8	4	14.61	14.68	14.77		0
	8	7	14.61	14.70	14.75		0
	15	0	14.63	14.70	14.78		0
16QAM	1	0	14.87	14.61	14.86	0-1	0
	1	7	14.78	14.73	14.85		0
	1	14	14.60	14.76	14.86		0
	8	0	14.42	14.46	14.71	0-2	0
	8	4	14.47	14.49	14.59		0
	8	7	14.41	14.52	14.61		0
	15	0	14.43	14.52	14.63		0
64QAM	1	0	14.71	14.66	14.84	0-2	0
	1	7	14.82	14.84	14.89		0
	1	14	14.74	14.73	14.87		0
	8	0	14.70	14.63	14.90	0-3	0
	8	4	14.64	14.73	14.83		0
	8	7	14.49	14.79	14.82		0
	15	0	14.49	14.71	14.80		0

Table 8-186
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.70	14.73	14.61	0	0
	1	2	14.64	14.83	14.53		0
	1	5	14.56	14.78	14.52		0
	3	0	14.69	14.62	14.65		0
	3	2	14.65	14.69	14.64		0
	3	3	14.59	14.75	14.55		0
	6	0	14.65	14.75	14.66	0-1	0
16QAM	1	0	14.89	14.76	14.88	0-1	0
	1	2	14.66	14.90	14.90		0
	1	5	14.52	14.90	14.83		0
	3	0	14.42	14.45	14.53		0
	3	2	14.47	14.51	14.55		0
	3	3	14.42	14.52	14.48	0	
64QAM	6	0	14.43	14.55	14.57	0-2	0
	1	0	14.79	14.83	14.90	0-2	0
	1	2	14.66	14.90	14.90		0
	1	5	14.60	14.74	14.88		0
	3	0	14.73	14.66	14.71		0
	3	2	14.67	14.71	14.73		0
	3	3	14.61	14.76	14.70	0-3	0
6	0	14.46	14.74	14.69	0		

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Table 8-187

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.64	11.46	11.61	0	0
	1	50	11.48	11.64	11.65		0
	1	99	11.68	11.69	11.77		0
	50	0	11.47	11.62	11.65	0-1	0
	50	25	11.43	11.65	11.62		0
	50	50	11.52	11.65	11.66		0
	100	0	11.47	11.60	11.64		0
16QAM	1	0	11.62	11.23	11.81	0-1	0
	1	50	11.27	11.05	11.83		0
	1	99	11.22	10.99	11.90		0
	50	0	11.13	10.98	11.37	0-2	0
	50	25	11.10	11.02	11.56		0
	50	50	11.11	10.99	11.39		0
	100	0	11.15	11.03	11.49		0
64QAM	1	0	11.75	11.24	11.31	0-2	0
	1	50	11.56	11.12	11.52		0
	1	99	11.40	11.34	11.71		0
	50	0	11.02	11.13	11.26	0-3	0
	50	25	10.95	10.94	11.47		0
	50	50	10.92	10.97	11.44		0
	100	0	10.96	10.98	11.36		0

Table 8-188

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.59	11.18	11.40	0	0
	1	36	11.44	11.25	11.46		0
	1	74	11.44	11.10	11.68		0
	36	0	11.26	11.18	11.49	0-1	0
	36	18	11.26	11.18	11.64		0
	36	37	11.17	11.12	11.53		0
	75	0	11.25	11.21	11.54		0
16QAM	1	0	11.80	11.34	11.47	0-1	0
	1	36	11.40	11.21	11.73		0
	1	74	11.22	11.19	11.57		0
	36	0	11.05	11.29	11.55	0-2	0
	36	18	11.03	11.18	11.59		0
	36	37	10.98	11.12	11.51		0
	75	0	11.07	11.20	11.48		0
64QAM	1	0	11.55	11.42	11.76	0-2	0
	1	36	11.05	11.31	11.87		0
	1	74	11.18	11.08	11.72		0
	36	0	11.07	11.20	11.63	0-3	0
	36	18	11.18	11.33	11.57		0
	36	37	11.11	11.14	11.57		0
	75	0	11.08	11.15	11.61		0

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Table 8-189
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.50	11.35	11.74	0	0
	1	25	11.11	11.18	11.54		0
	1	49	11.11	11.01	11.76		0
	25	0	11.41	11.25	11.66	0-1	0
	25	12	11.20	11.29	11.69		0
	25	25	11.26	11.34	11.73		0
	50	0	11.26	11.30	11.67		0
16QAM	1	0	11.32	11.17	11.77	0-1	0
	1	25	11.40	11.06	11.48		0
	1	49	11.23	11.14	11.47		0
	25	0	10.99	11.13	11.34	0-2	0
	25	12	10.91	11.04	11.33		0
	25	25	10.91	11.01	11.33		0
	50	0	10.93	11.10	11.22		0
64QAM	1	0	11.31	11.31	11.76	0-2	0
	1	25	11.18	11.13	11.61		0
	1	49	11.12	11.35	11.40		0
	25	0	11.05	11.03	11.49	0-3	0
	25	12	11.06	11.19	11.30		0
	25	25	11.09	11.02	11.32		0
	50	0	10.97	11.09	11.34		0

Table 8-190
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.54	11.18	11.53	0	0
	1	12	11.31	11.09	11.23		0
	1	24	11.29	10.96	11.43		0
	12	0	11.41	11.03	11.40	0-1	0
	12	6	11.31	11.13	11.44		0
	12	13	11.24	11.12	11.50		0
	25	0	11.32	11.22	11.46		0
16QAM	1	0	11.82	11.25	11.57	0-1	0
	1	12	11.44	11.10	11.49		0
	1	24	11.24	11.19	11.64		0
	12	0	11.25	11.18	11.34	0-2	0
	12	6	11.15	11.07	11.49		0
	12	13	11.03	11.21	11.52		0
	25	0	11.12	11.21	11.36		0
64QAM	1	0	11.51	11.50	11.70	0-2	0
	1	12	11.38	11.36	11.72		0
	1	24	11.09	11.22	11.59		0
	12	0	11.40	11.08	11.44	0-3	0
	12	6	11.30	11.28	11.40		0
	12	13	11.16	11.16	11.48		0
	25	0	11.20	11.15	11.46		0

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Table 8-191
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.40	11.21	11.34	0	0
	1	7	11.30	11.22	11.28		0
	1	14	11.21	11.03	11.42		0
	8	0	11.37	11.17	11.30	0-1	0
	8	4	11.32	11.19	11.48		0
	8	7	11.37	11.27	11.52		0
	15	0	11.39	11.30	11.46		0
16QAM	1	0	11.61	11.28	11.45	0-1	0
	1	7	11.67	11.16	11.60		0
	1	14	11.35	11.26	11.33		0
	8	0	11.27	11.43	11.30	0-2	0
	8	4	11.19	11.13	11.47		0
	8	7	11.23	11.27	11.48		0
	15	0	11.24	11.30	11.35		0
64QAM	1	0	11.57	11.37	11.66	0-2	0
	1	7	11.55	11.36	11.62		0
	1	14	11.29	11.38	11.61		0
	8	0	11.33	11.28	11.46	0-3	0
	8	4	11.27	11.32	11.48		0
	8	7	11.28	11.24	11.59		0
	15	0	11.19	11.12	11.56		0

Table 8-192
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.59	11.25	11.63	0	0
	1	2	11.43	11.22	11.41		0
	1	5	11.52	11.06	11.54		0
	3	0	11.36	11.16	11.49		0
	3	2	11.29	11.20	11.57		0
	3	3	11.34	11.21	11.61	0	
	6	0	11.30	11.26	11.56	0-1	0
16QAM	1	0	11.71	11.31	11.79	0-1	0
	1	2	11.40	11.31	11.74		0
	1	5	11.37	11.42	11.64		0
	3	0	11.26	11.38	11.59		0
	3	2	11.30	11.09	11.63		0
	3	3	11.21	11.33	11.60	0	
	6	0	11.19	11.30	11.54	0-2	0
64QAM	1	0	11.48	11.38	11.17	0-2	0
	1	2	11.47	11.35	11.25		0
	1	5	11.40	11.42	11.62		0
	3	0	11.26	11.31	11.65		0
	3	2	11.26	11.32	11.57		0
	3	3	11.43	11.31	11.63	0	
	6	0	11.20	11.24	11.60	0-3	0

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Table 8-193
LTE Band 2 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.76	13.78	13.70	0	0
	1	50	13.78	13.76	13.92		0
	1	99	13.72	13.73	14.00		0
	50	0	13.81	13.77	13.70	0-1	0
	50	25	13.73	13.81	13.86		0
	50	50	13.72	13.83	13.92		0
	100	0	13.73	13.76	13.87		0
16QAM	1	0	14.09	13.91	13.90	0-1	0
	1	50	14.00	14.04	13.96		0
	1	99	13.78	13.83	13.90		0
	50	0	13.88	13.89	13.75	0-2	0
	50	25	13.86	13.87	13.84		0
	50	50	13.78	13.83	13.78		0
	100	0	13.84	13.88	13.82		0
64QAM	1	0	13.93	13.96	13.92	0-2	0
	1	50	13.87	14.08	14.15		0
	1	99	13.73	13.96	14.08		0
	50	0	13.88	13.86	13.76	0-3	0
	50	25	13.89	13.88	13.82		0
	50	50	13.82	13.84	13.76		0
	100	0	13.83	13.88	13.81		0

Table 8-194
LTE Band 2 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.92	13.71	13.72	0	0
	1	36	13.98	13.74	13.86		0
	1	74	13.85	13.71	13.72		0
	36	0	13.87	13.76	13.86	0-1	0
	36	18	13.88	13.79	13.94		0
	36	37	13.83	13.79	13.91		0
	75	0	13.86	13.82	13.88		0
16QAM	1	0	13.92	13.71	13.86	0-1	0
	1	36	14.14	13.73	14.07		0
	1	74	14.00	13.85	13.86		0
	36	0	13.85	13.77	13.85	0-2	0
	36	18	13.89	13.81	13.96		0
	36	37	13.87	13.80	13.91		0
	75	0	13.86	13.81	13.87		0
64QAM	1	0	14.02	13.79	14.05	0-2	0
	1	36	14.05	13.89	14.14		0
	1	74	13.92	13.93	14.05		0
	36	0	13.89	13.78	13.88	0-3	0
	36	18	13.92	13.80	13.95		0
	36	37	13.85	13.80	13.94		0
	75	0	13.84	13.83	13.87		0

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Table 8-195
LTE Band 2 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.83	13.76	13.71	0	0
	1	25	13.85	13.71	13.76		0
	1	49	13.90	13.70	13.70		0
	25	0	13.89	13.78	13.74	0-1	0
	25	12	13.92	13.75	13.78		0
	25	25	13.93	13.79	13.74		0
	50	0	13.91	13.80	13.70		0
16QAM	1	0	13.90	13.86	13.82	0-1	0
	1	25	13.97	13.90	13.80		0
	1	49	14.05	13.85	13.88		0
	25	0	13.88	13.78	13.74	0-2	0
	25	12	13.93	13.77	13.70		0
	25	25	13.93	13.79	13.71		0
	50	0	13.94	13.83	13.71		0
64QAM	1	0	14.08	13.90	14.01	0-2	0
	1	25	13.99	13.97	13.98		0
	1	49	14.15	13.94	14.07		0
	25	0	13.90	13.77	13.73	0-3	0
	25	12	13.94	13.74	13.70		0
	25	25	13.92	13.79	13.72		0
	50	0	13.96	13.81	13.73		0

Table 8-196
LTE Band 2 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.03	14.00	13.75	0	0
	1	12	13.99	14.03	13.77		0
	1	24	14.01	14.15	13.77		0
	12	0	13.99	13.98	13.88	0-1	0
	12	6	14.00	13.96	13.88		0
	12	13	14.04	14.01	13.87		0
	25	0	13.99	14.02	13.91		0
16QAM	1	0	13.82	13.85	13.72	0-1	0
	1	12	13.93	13.80	13.71		0
	1	24	13.85	14.00	13.85		0
	12	0	13.75	13.81	13.72	0-2	0
	12	6	13.73	13.77	13.70		0
	12	13	13.81	13.77	13.72		0
	25	0	13.78	13.75	13.74		0
64QAM	1	0	13.91	13.90	13.84	0-2	0
	1	12	13.88	13.95	13.84		0
	1	24	13.92	14.05	13.98		0
	12	0	13.77	13.74	13.71	0-3	0
	12	6	13.77	13.73	13.73		0
	12	13	13.84	13.80	13.72		0
	25	0	13.75	13.79	13.69		0

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Table 8-197
LTE Band 2 Conducted Powers Ant 4b - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.85	13.89	13.77	0	0
	1	7	13.90	14.00	13.80		0
	1	14	13.84	13.96	13.79		0
	8	0	13.97	14.00	13.89	0-1	0
	8	4	13.94	14.03	13.89		0
	8	7	13.94	14.03	13.87		0
16QAM	15	0	13.97	14.07	13.93	0	
	1	0	13.71	13.85	13.72	0-1	0
	1	7	13.92	13.92	13.70		0
	1	14	13.76	13.86	13.72		0-2
	8	0	13.81	13.75	13.71	0	
	8	4	13.78	13.85	13.75	0	
64QAM	8	7	13.75	13.85	13.70	0-2	0
	15	0	13.77	13.91	13.73		0
	1	0	13.81	13.90	13.94	0-2	0
	1	7	13.94	13.85	13.97		0
	1	14	13.83	13.85	13.84		0-3
	8	0	13.79	13.84	13.71	0	
8	4	13.78	13.87	13.75	0		
8	7	13.76	13.87	13.74	0		
	15	0	13.72	13.84	13.76	0	

Table 8-198
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.72	13.74	13.73	0	0
	1	2	13.70	13.71	13.71		0
	1	5	13.75	13.82	13.70		0
	3	0	13.79	13.79	13.75		0
	3	2	13.75	13.89	13.75		0
	3	3	13.75	13.87	13.73		0
	6	0	13.78	13.88	13.79	0-1	0
16QAM	1	0	13.96	13.88	13.70	0-1	0
	1	2	13.89	13.91	13.81		0
	1	5	13.89	14.00	13.83		0
	3	0	13.88	13.82	13.77		0
	3	2	13.78	14.00	13.78		0
	3	3	13.77	13.75	13.81	0	
6	0	13.83	13.95	13.84	0-2	0	
64QAM	1	0	13.81	13.95	14.05	0-2	0
	1	2	13.91	13.83	14.08		0
	1	5	14.01	14.15	13.95		0
	3	0	13.86	13.83	13.82		0
	3	2	13.86	13.91	13.79		0
	3	3	13.88	13.89	13.85		0
	6	0	13.83	13.86	13.87	0-3	0

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Table 8-199
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.39	11.14	11.13	0	0
	1	50	11.31	11.32	11.27		0
	1	99	11.16	11.41	11.15		0
	50	0	11.26	11.18	11.23	0-1	0
	50	25	11.22	11.28	11.31		0
	50	50	11.19	11.32	11.25		0
	100	0	11.24	11.31	11.31		0
16QAM	1	0	11.28	11.36	11.20	0-1	0
	1	50	11.63	11.32	11.43		0
	1	99	11.39	11.16	11.21		0
	50	0	11.07	10.96	11.00	0-2	0
	50	25	11.12	10.97	11.06		0
	50	50	11.05	10.88	10.95		0
	100	0	10.94	11.00	10.99		0
64QAM	1	0	11.43	11.46	11.28	0-2	0
	1	50	11.29	11.41	11.36		0
	1	99	11.01	11.22	11.33		0
	50	0	11.03	10.94	10.80	0-3	0
	50	25	10.97	10.96	10.95		0
	50	50	10.88	10.88	10.97		0
	100	0	10.99	10.91	10.98		0

Table 8-200
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.33	11.17	11.28	0	0
	1	36	11.44	11.20	11.42		0
	1	74	11.32	11.29	11.33		0
	36	0	11.41	11.34	11.36	0-1	0
	36	18	11.42	11.29	11.43		0
	36	37	11.28	11.26	11.38		0
	75	0	11.35	11.36	11.40		0
16QAM	1	0	11.67	11.60	11.56	0-1	0
	1	36	11.64	11.45	11.63		0
	1	74	11.34	11.40	11.59		0
	36	0	11.47	11.34	11.36	0-2	0
	36	18	11.42	11.31	11.42		0
	36	37	11.30	11.27	11.39		0
	75	0	11.37	11.38	11.39		0
64QAM	1	0	11.53	11.54	11.25	0-2	0
	1	36	11.61	11.42	11.59		0
	1	74	11.24	11.58	11.68		0
	36	0	11.49	11.24	11.22	0-3	0
	36	18	11.41	11.26	11.39		0
	36	37	11.33	11.33	11.41		0
	75	0	11.37	11.34	11.42		0

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Table 8-201
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.27	11.10	11.41	0	0
	1	25	11.38	11.15	11.32		0
	1	49	11.42	11.25	11.53		0
	25	0	11.29	11.11	11.28	0-1	0
	25	12	11.37	11.14	11.27		0
	25	25	11.37	11.24	11.40		0
	50	0	11.39	11.22	11.28		0
16QAM	1	0	11.70	11.47	11.54	0-1	0
	1	25	11.64	11.40	11.58		0
	1	49	11.59	11.37	11.70		0
	25	0	11.41	11.22	11.31	0-2	0
	25	12	11.40	11.19	11.29		0
	25	25	11.38	11.25	11.41		0
	50	0	11.40	11.27	11.29		0
64QAM	1	0	11.69	11.44	11.46	0-2	0
	1	25	11.62	11.34	11.56		0
	1	49	11.50	11.37	11.69		0
	25	0	11.30	11.22	11.10	0-3	0
	25	12	11.40	11.19	11.29		0
	25	25	11.20	11.23	11.43		0
	50	0	11.40	11.26	11.30		0

Table 8-202
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.35	11.21	11.35	0	0
	1	12	11.22	11.27	11.38		0
	1	24	11.28	11.31	11.36		0
	12	0	11.25	11.23	11.36	0-1	0
	12	6	11.23	11.25	11.38		0
	12	13	11.28	11.32	11.38		0
	25	0	11.25	11.31	11.36		0
16QAM	1	0	11.49	11.43	11.62	0-1	0
	1	12	11.46	11.50	11.64		0
	1	24	11.55	11.56	11.59		0
	12	0	11.31	11.27	11.41	0-2	0
	12	6	11.29	11.30	11.39		0
	12	13	11.33	11.35	11.42		0
	25	0	11.28	11.36	11.37		0
64QAM	1	0	11.45	11.48	11.59	0-2	0
	1	12	11.45	11.49	11.61		0
	1	24	11.49	11.50	11.53		0
	12	0	11.30	11.32	11.11	0-3	0
	12	6	11.28	11.32	11.01		0
	12	13	11.33	11.20	11.03		0
	25	0	11.26	11.37	11.14		0

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Table 8-203

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.27	11.28	11.32	0	0
	1	7	11.35	11.36	11.41		0
	1	14	11.27	11.32	11.26		0
	8	0	11.35	11.31	11.34	0-1	0
	8	4	11.37	11.37	11.38		0
	8	7	11.37	11.37	11.33		0
	15	0	11.36	11.38	11.39		0
16QAM	1	0	11.52	11.52	11.59	0-1	0
	1	7	11.62	11.63	11.67		0
	1	14	11.57	11.55	11.54		0
	8	0	11.42	11.39	11.40	0-2	0
	8	4	11.43	11.44	11.44		0
	8	7	11.44	11.18	11.40		0
	15	0	11.40	11.41	11.42		0
64QAM	1	0	11.56	11.52	11.52	0-2	0
	1	7	11.66	11.57	11.59		0
	1	14	11.20	11.51	11.46		0
	8	0	11.41	11.37	11.20	0-3	0
	8	4	11.40	11.41	11.43		0
	8	7	11.32	11.23	11.36		0
	15	0	11.40	11.32	11.43		0

Table 8-204

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.31	11.47	11.43	0	0
	1	2	11.31	11.45	11.29		0
	1	5	11.35	11.56	11.36		0
	3	0	11.31	11.47	11.38		0
	3	2	11.32	11.52	11.31		0
	3	3	11.34	11.54	11.36		0
	6	0	11.32	11.53	11.32	0-1	0
16QAM	1	0	11.56	11.66	11.68	0-1	0
	1	2	11.53	11.64	11.53		0
	1	5	11.58	11.40	11.59		0
	3	0	11.42	11.30	11.49		0
	3	2	11.44	11.37	11.42		0
	3	3	11.44	11.37	11.18		0
	6	0	11.38	11.32	11.42	0-2	0
64QAM	1	0	11.49	11.69	11.64	0-2	0
	1	2	11.53	11.70	11.49		0
	1	5	11.25	11.69	11.56		0
	3	0	11.43	11.32	11.21		0
	3	2	11.41	11.35	11.41		0
	3	3	11.15	11.37	11.19		0
	6	0	11.37	11.30	11.37	0-3	0

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LTE Band 25

Table 8-205
LTE Band 25 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.67	14.67	14.62	0	0
	1	50	14.80	14.62	14.62		0
	1	99	14.71	14.54	14.79		0
	50	0	14.64	14.70	14.77	0-1	0
	50	25	14.62	14.71	14.68		0
	50	50	14.50	14.63	14.70		0
16QAM	100	0	14.58	14.64	14.70	0	
	1	0	14.56	14.80	14.90	0-1	0
	1	50	14.56	14.68	14.92		0
	1	99	14.37	14.67	15.10		0
	50	0	14.13	14.31	14.24	0-2	0
	50	25	14.17	14.20	14.26		0
	50	50	14.10	14.15	14.22		0
100	0	14.11	14.17	14.24	0		
64QAM	1	0	14.67	14.59	14.63	0-2	0
	1	50	14.61	14.49	14.81		0
	1	99	14.49	14.44	14.80		0
	50	0	14.12	14.29	14.31	0-3	0
	50	25	14.11	14.19	14.31		0
	50	50	14.10	14.12	14.23		0
	100	0	14.11	14.15	14.30		0

Table 8-206
LTE Band 25 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26115 (1857.5 MHz)	26365 (1882.5 MHz)	26615 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.28	14.76	14.46	0	0
	1	36	14.49	14.89	14.52		0
	1	74	14.41	14.61	14.74		0
	36	0	14.39	14.66	14.63	0-1	0
	36	18	14.51	14.76	14.69		0
	36	37	14.48	14.58	14.81		0
	75	0	14.52	14.68	14.73		0
16QAM	1	0	14.34	14.52	14.58	0-1	0
	1	36	14.55	14.69	14.64		0
	1	74	14.25	14.46	14.96		0
	36	0	14.12	14.37	14.42	0-2	0
	36	18	14.22	14.44	14.46		0
	36	37	14.20	14.29	14.54		0
	75	0	14.20	14.41	14.47		0
64QAM	1	0	14.13	14.64	14.67	0-2	0
	1	36	14.58	14.72	14.62		0
	1	74	14.32	14.47	14.95		0
	36	0	14.10	14.36	14.43	0-3	0
	36	18	14.21	14.47	14.48		0
	36	37	14.17	14.28	14.55		0
	75	0	14.19	14.41	14.48		0

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Table 8-207
LTE Band 25 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26090 (1855.0 MHz)	26365 (1882.5 MHz)	26640 (1910.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.36	14.68	14.71	0	0
	1	25	14.40	14.66	14.77		0
	1	49	14.43	14.58	14.84		0
	25	0	14.38	14.78	14.75	0-1	0
	25	12	14.38	14.74	14.82		0
	25	25	14.47	14.67	14.96		0
	50	0	14.46	14.70	14.91		0
16QAM	1	0	14.41	14.58	14.77	0-1	0
	1	25	14.46	14.69	14.82		0
	1	49	14.51	14.37	15.04		0
	25	0	14.11	14.49	14.34	0-2	0
	25	12	14.12	14.43	14.43		0
	25	25	14.20	14.37	14.62		0
	50	0	14.18	14.43	14.56		0
64QAM	1	0	14.31	14.54	14.88	0-2	0
	1	25	14.32	14.51	14.82		0
	1	49	14.49	14.55	15.07		0
	25	0	14.10	14.48	14.37	0-3	0
	25	12	14.14	14.46	14.42		0
	25	25	14.20	14.37	14.62		0
	50	0	14.17	14.42	14.54		0

Table 8-208
LTE Band 25 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26065 (1852.5 MHz)	26365 (1882.5 MHz)	26665 (1912.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.36	14.73	14.68	0	0
	1	12	14.43	14.64	14.76		0
	1	24	14.53	14.63	14.73		0
	12	0	14.30	14.65	14.78	0-1	0
	12	6	14.34	14.69	14.85		0
	12	13	14.40	14.65	14.81		0
16QAM	25	0	14.35	14.62	14.87	0	
	1	0	14.47	14.78	14.89	0-1	0
	1	12	14.54	14.59	14.91		0
	1	24	14.78	14.66	14.89		0
	12	0	14.16	14.51	14.59	0-2	0
	12	6	14.22	14.53	14.70		0
	12	13	14.31	14.53	14.63		0
25	0	14.17	14.51	14.66	0		
64QAM	1	0	14.41	14.83	14.74	0-2	0
	1	12	14.56	14.66	14.90		0
	1	24	14.71	14.65	14.93		0
	12	0	14.17	14.48	14.61	0-3	0
	12	6	14.18	14.52	14.68		0
	12	13	14.23	14.52	14.68		0
	25	0	14.19	14.48	14.69		0

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Table 8-209
LTE Band 25 Conducted Powers Ant 2a - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26055 (1851.5 MHz)	26365 (1882.5 MHz)	26675 (1913.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.30	14.60	14.72	0	0
	1	7	14.41	14.56	14.75		0
	1	14	14.33	14.54	14.64		0
	8	0	14.32	14.60	14.86	0-1	0
	8	4	14.41	14.54	14.80		0
	8	7	14.39	14.58	14.82		0
	15	0	14.41	14.59	14.83		0
16QAM	1	0	14.37	14.70	14.96	0-1	0
	1	7	14.42	14.51	14.98		0
	1	14	14.52	14.54	14.78		0
	8	0	14.11	14.43	14.71	0-2	0
	8	4	14.15	14.38	14.64		0
	8	7	14.18	14.42	14.63		0
	15	0	14.13	14.39	14.64		0
64QAM	1	0	14.33	14.55	14.95	0-2	0
	1	7	14.44	14.62	14.93		0
	1	14	14.43	14.56	14.99		0
	8	0	14.11	14.44	14.69	0-3	0
	8	4	14.19	14.39	14.62		0
	8	7	14.20	14.44	14.65		0
	15	0	14.16	14.39	14.64		0

Table 8-210
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26047 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.36	14.67	14.93	0	0
	1	2	14.34	14.65	14.94		0
	1	5	14.38	14.61	14.92		0
	3	0	14.36	14.66	14.78		0
	3	2	14.36	14.59	14.83		0
	3	3	14.36	14.59	14.78		0
	6	0	14.32	14.60	14.82	0-1	0
16QAM	1	0	14.12	14.60	14.76	0-1	0
	1	2	14.38	14.51	14.71		0
	1	5	14.28	14.64	14.56		0
	3	0	14.20	14.45	14.56		0
	3	2	14.12	14.40	14.69		0
	3	3	14.15	14.38	14.54		0
	6	0	14.10	14.38	14.59	0-2	0
64QAM	1	0	14.17	14.53	14.74	0-2	0
	1	2	14.20	14.63	14.73		0
	1	5	14.17	14.37	14.53		0
	3	0	14.18	14.46	14.61		0
	3	2	14.10	14.42	14.60		0
	3	3	14.11	14.39	14.58		0
	6	0	14.10	14.36	14.51	0-3	0

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Table 8-211
LTE Band 25 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.32	13.66	13.74	0	0
	1	50	13.53	13.58	13.90		0
	1	99	13.56	13.56	14.10		0
	50	0	13.54	13.64	13.79	0-1	0
	50	25	13.63	13.56	13.85		0
	50	50	13.55	13.58	14.05		0
	100	0	13.67	13.57	13.82		0
16QAM	1	0	13.50	13.56	13.82	0-1	0
	1	50	13.59	13.47	14.02		0
	1	99	13.62	13.42	14.10		0
	50	0	13.31	13.41	13.60	0-2	0
	50	25	13.37	13.31	13.64		0
	50	50	13.27	13.32	13.77		0
	100	0	13.43	13.32	13.70		0
64QAM	1	0	13.54	13.44	13.61	0-2	0
	1	50	13.69	13.33	13.76		0
	1	99	13.75	13.34	14.08		0
	50	0	13.32	13.39	13.78	0-3	0
	50	25	13.38	13.31	13.64		0
	50	50	13.27	13.32	13.77		0
	100	0	13.43	13.31	13.70		0

Table 8-212
LTE Band 25 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26115 (1857.5 MHz)	26365 (1882.5 MHz)	26615 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.37	13.59	13.43	0	0
	1	36	13.60	13.56	13.62		0
	1	74	13.31	13.38	14.01		0
	36	0	13.42	13.44	13.67	0-1	0
	36	18	13.62	13.45	13.76		0
	36	37	13.51	13.35	13.89		0
	75	0	13.61	13.41	13.81		0
16QAM	1	0	13.36	13.47	13.56	0-1	0
	1	36	13.58	13.40	13.82		0
	1	74	13.35	13.24	14.09		0
	36	0	13.14	13.12	13.46	0-2	0
	36	18	13.31	13.13	13.54		0
	36	37	13.25	13.11	13.64		0
	75	0	13.32	13.12	13.53		0
64QAM	1	0	13.11	13.55	13.64	0-2	0
	1	36	13.40	13.47	13.71		0
	1	74	13.13	13.15	14.08		0
	36	0	13.13	13.22	13.44	0-3	0
	36	18	13.30	13.18	13.54		0
	36	37	13.22	13.13	13.63		0
	75	0	13.31	13.13	13.49		0

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Table 8-213
LTE Band 25 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26090 (1855.0 MHz)	26365 (1882.5 MHz)	26640 (1910.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.46	13.39	13.74	0	0
	1	25	13.41	13.30	13.77		0
	1	49	13.45	13.31	14.10		0
	25	0	13.39	13.34	13.68	0-1	0
	25	12	13.41	13.38	13.81		0
	25	25	13.56	13.41	14.01		0
	50	0	13.52	13.35	13.85		0
16QAM	1	0	13.62	13.51	13.75	0-1	0
	1	25	13.64	13.19	13.78		0
	1	49	13.58	13.19	13.96		0
	25	0	13.22	13.17	13.42	0-2	0
	25	12	13.22	13.23	13.54		0
	25	25	13.40	13.21	13.80		0
	50	0	13.31	13.14	13.59		0
64QAM	1	0	13.52	13.37	13.88	0-2	0
	1	25	13.51	13.24	13.95		0
	1	49	13.60	13.24	14.08		0
	25	0	13.21	13.13	13.43	0-3	0
	25	12	13.20	13.13	13.57		0
	25	25	13.35	13.13	13.78		0
	50	0	13.28	13.14	13.62		0

Table 8-214
LTE Band 25 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26065 (1852.5 MHz)	26365 (1882.5 MHz)	26665 (1912.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.50	13.30	13.69	0	0
	1	12	13.49	13.32	13.92		0
	1	24	13.53	13.42	13.95		0
	12	0	13.39	13.36	13.95	0-1	0
	12	6	13.40	13.37	14.02		0
	12	13	13.43	13.34	14.07		0
	25	0	13.41	13.35	14.04		0
16QAM	1	0	13.40	13.34	13.71	0-1	0
	1	12	13.45	13.31	13.92		0
	1	24	13.51	13.52	14.01		0
	12	0	13.11	13.15	13.63	0-2	0
	12	6	13.18	13.22	13.66		0
	12	13	13.14	13.20	13.70		0
	25	0	13.10	13.13	13.72		0
64QAM	1	0	13.55	13.13	13.74	0-2	0
	1	12	13.48	13.19	13.98		0
	1	24	13.24	13.15	13.95		0
	12	0	13.13	13.14	13.63	0-3	0
	12	6	13.13	13.12	13.75		0
	12	13	13.13	13.11	13.79		0
	25	0	13.12	13.10	13.77		0

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Table 8-215
LTE Band 25 Conducted Powers Ant 2b - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26055 (1851.5 MHz)	26365 (1882.5 MHz)	26675 (1913.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.35	13.28	13.97	0	0
	1	7	13.47	13.34	14.02		0
	1	14	13.37	13.31	13.89		0
	8	0	13.47	13.38	14.03	0-1	0
	8	4	13.53	13.34	13.99		0
	8	7	13.52	13.35	14.03		0
	15	0	13.53	13.36	14.04		0
16QAM	1	0	13.34	13.16	13.98	0-1	0
	1	7	13.44	13.26	14.07		0
	1	14	13.37	13.19	14.05		0
	8	0	13.15	13.17	13.79	0-2	0
	8	4	13.15	13.12	13.73		0
	8	7	13.16	13.10	13.75		0
	15	0	13.13	13.11	13.76		0
64QAM	1	0	13.36	13.14	13.98	0-2	0
	1	7	13.22	13.35	14.04		0
	1	14	13.21	13.39	13.89		0
	8	0	13.14	13.13	13.75	0-3	0
	8	4	13.20	13.11	13.70		0
	8	7	13.22	13.14	13.70		0
	15	0	13.17	13.10	13.69		0

Table 8-216
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26047 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.32	13.38	14.04	0	0
	1	2	13.31	13.36	14.08		0
	1	5	13.32	13.33	14.08		0
	3	0	13.33	13.40	14.01		0
	3	2	13.32	13.31	14.04		0
	3	3	13.34	13.33	13.96		0
	6	0	13.32	13.34	13.99	0-1	0
16QAM	1	0	13.49	13.27	14.00	0-1	0
	1	2	13.59	13.33	14.08		0
	1	5	13.55	13.17	14.09		0
	3	0	13.40	13.21	13.99		0
	3	2	13.38	13.24	13.98		0
	3	3	13.32	13.23	13.94		0
	6	0	13.34	13.22	13.86	0-2	0
64QAM	1	0	13.51	13.41	14.06	0-2	0
	1	2	13.40	13.44	14.07		0
	1	5	13.60	13.39	14.09		0
	3	0	13.26	13.31	14.08		0
	3	2	13.21	13.37	14.07		0
	3	3	13.24	13.27	14.04		0
	6	0	13.21	13.10	13.83	0-3	0

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Table 8-217
LTE Band 25 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.70	14.72	14.89	0	0
	1	50	14.66	14.74	14.90		0
	1	99	14.62	14.84	14.87		0
	50	0	14.68	14.60	14.77	0-1	0
	50	25	14.67	14.55	14.72		0
	50	50	14.58	14.54	14.60		0
	100	0	14.67	14.57	14.68		0
16QAM	1	0	14.83	14.60	14.69	0-1	0
	1	50	14.84	14.71	14.70		0
	1	99	14.79	14.70	14.76		0
	50	0	14.32	14.15	14.22	0-2	0
	50	25	14.23	14.08	14.10		0
	50	50	14.16	14.11	14.02		0
	100	0	14.18	14.10	14.08		0
64QAM	1	0	14.47	14.70	14.74	0-2	0
	1	50	14.30	14.71	14.68		0
	1	99	14.39	14.81	14.56		0
	50	0	14.28	14.40	14.61	0-3	0
	50	25	14.21	14.36	14.45		0
	50	50	14.24	14.37	14.31		0
	100	0	14.21	14.39	14.48		0

Table 8-218
LTE Band 25 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26115 (1857.5 MHz)	26365 (1882.5 MHz)	26615 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.46	14.63	14.67	0	0
	1	36	14.33	14.72	14.53		0
	1	74	14.25	14.77	14.56		0
	36	0	14.38	14.49	14.67	0-1	0
	36	18	14.33	14.59	14.62		0
	36	37	14.29	14.58	14.55		0
	75	0	14.24	14.56	14.57		0
16QAM	1	0	14.65	14.62	14.82	0-1	0
	1	36	14.52	14.77	14.74		0
	1	74	14.51	14.90	14.77		0
	36	0	14.39	14.49	14.69	0-2	0
	36	18	14.39	14.41	14.43		0
	36	37	14.27	14.41	14.37		0
	75	0	14.28	14.59	14.38		0
64QAM	1	0	14.71	14.67	14.66	0-2	0
	1	36	14.50	14.90	14.76		0
	1	74	14.40	14.90	14.70		0
	36	0	14.41	14.55	14.65	0-3	0
	36	18	14.36	14.67	14.61		0
	36	37	14.32	14.62	14.55		0
	75	0	14.25	14.62	14.57		0

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Table 8-219
LTE Band 25 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26090 (1855.0 MHz)	26365 (1882.5 MHz)	26640 (1910.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.52	14.44	14.55	0	0
	1	25	14.38	14.47	14.48		0
	1	49	14.30	14.53	14.55		0
	25	0	14.45	14.58	14.62	0-1	0
	25	12	14.41	14.56	14.56		0
	25	25	14.34	14.58	14.65		0
	50	0	14.41	14.58	14.56		0
16QAM	1	0	14.56	14.59	14.74	0-1	0
	1	25	14.38	14.67	14.65		0
	1	49	14.25	14.65	14.68		0
	25	0	14.49	14.57	14.64	0-2	0
	25	12	14.43	14.56	14.58		0
	25	25	14.33	14.60	14.48		0
	50	0	14.42	14.44	14.56		0
64QAM	1	0	14.62	14.59	14.75	0-2	0
	1	25	14.53	14.63	14.74		0
	1	49	14.44	14.73	14.79		0
	25	0	14.49	14.58	14.62	0-3	0
	25	12	14.45	14.60	14.57		0
	25	25	14.34	14.64	14.64		0
	50	0	14.40	14.62	14.54		0

Table 8-220
LTE Band 25 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26065 (1852.5 MHz)	26365 (1882.5 MHz)	26665 (1912.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.60	14.56	14.51	0	0
	1	12	14.53	14.45	14.50		0
	1	24	14.57	14.54	14.50		0
	12	0	14.54	14.55	14.61	0-1	0
	12	6	14.48	14.54	14.61		0
	12	13	14.46	14.52	14.61		0
	25	0	14.49	14.54	14.67		0
16QAM	1	0	14.75	14.71	14.62	0-1	0
	1	12	14.69	14.54	14.72		0
	1	24	14.61	14.66	14.46		0
	12	0	14.62	14.56	14.68	0-2	0
	12	6	14.48	14.54	14.48		0
	12	13	14.38	14.57	14.43		0
	25	0	14.50	14.43	14.43		0
64QAM	1	0	14.58	14.83	14.59	0-2	0
	1	12	14.58	14.60	14.84		0
	1	24	14.71	14.77	14.72		0
	12	0	14.62	14.69	14.57	0-3	0
	12	6	14.54	14.58	14.64		0
	12	13	14.46	14.55	14.61		0
	25	0	14.51	14.62	14.66		0

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Table 8-221
LTE Band 25 Conducted Powers Ant 4a - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26055 (1851.5 MHz)	26365 (1882.5 MHz)	26675 (1913.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.39	14.48	14.55	0	0
	1	7	14.39	14.48	14.55		0
	1	14	14.33	14.47	14.53		0
	8	0	14.47	14.55	14.66	0-1	0
	8	4	14.41	14.51	14.64		0
	8	7	14.39	14.52	14.64		0
	15	0	14.44	14.55	14.65		0
16QAM	1	0	14.55	14.48	14.66	0-1	0
	1	7	14.59	14.69	14.68		0
	1	14	14.52	14.68	14.78		0
	8	0	14.55	14.56	14.66	0-2	0
	8	4	14.42	14.55	14.44		0
	8	7	14.49	14.52	14.42		0
	15	0	14.54	14.59	14.48		0
64QAM	1	0	14.59	14.60	14.67	0-2	0
	1	7	14.54	14.54	14.73		0
	1	14	14.69	14.56	14.70		0
	8	0	14.54	14.64	14.71	0-3	0
	8	4	14.50	14.51	14.65		0
	8	7	14.46	14.55	14.67		0
	15	0	14.44	14.57	14.66		0

Table 8-222
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26047 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.38	14.47	14.45	0	0
	1	2	14.80	14.52	14.43		0
	1	5	14.68	14.56	14.48		0
	3	0	14.66	14.49	14.59		0
	3	2	14.74	14.52	14.63		0
	3	3	14.70	14.39	14.56		0
	6	0	14.69	14.46	14.59	0-1	0
16QAM	1	0	14.75	14.51	14.46	0-1	0
	1	2	14.56	14.56	14.53		0
	1	5	14.52	14.51	14.58		0
	3	0	14.53	14.54	14.63		0
	3	2	14.56	14.51	14.58		0
	3	3	14.49	14.47	14.51		0
	6	0	14.50	14.43	14.51	0-2	0
64QAM	1	0	14.69	14.41	14.54	0-2	0
	1	2	14.57	14.67	14.50		0
	1	5	14.56	14.65	14.48		0
	3	0	14.53	14.73	14.62		0
	3	2	14.60	14.69	14.56		0
	3	3	14.61	14.68	14.58		0
	6	0	14.55	14.74	14.66	0-3	0

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Table 8-223
LTE Band 25 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.78	13.72	13.81	0	0
	1	50	13.86	13.73	13.98		0
	1	99	13.90	13.70	14.00		0
	50	0	13.83	13.83	13.93	0-1	0
	50	25	13.87	13.87	13.95		0
	50	50	13.86	13.77	13.96		0
	100	0	13.87	13.85	13.95		0
16QAM	1	0	13.97	13.82	13.95	0-1	0
	1	50	13.98	13.99	13.99		0
	1	99	13.92	13.85	14.00		0
	50	0	13.89	13.90	13.97	0-2	0
	50	25	13.92	13.96	13.92		0
	50	50	13.90	13.84	13.95		0
	100	0	13.88	13.83	13.95		0
64QAM	1	0	13.97	13.88	13.91	0-2	0
	1	50	13.85	14.12	14.00		0
	1	99	13.71	13.90	14.16		0
	50	0	13.81	13.73	13.74	0-3	0
	50	25	13.86	13.77	13.71		0
	50	50	13.79	13.71	13.81		0
	100	0	13.78	13.75	13.70		0

Table 8-224
LTE Band 25 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26115 (1857.5 MHz)	26365 (1882.5 MHz)	26615 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.84	13.71	13.72	0	0
	1	36	13.90	13.80	13.73		0
	1	74	13.80	13.75	13.80		0
	36	0	13.79	13.76	13.71	0-1	0
	36	18	13.80	13.88	13.79		0
	36	37	13.77	13.71	13.86		0
	75	0	13.79	13.75	13.74		0
16QAM	1	0	13.93	13.74	13.77	0-1	0
	1	36	14.13	13.89	13.94		0
	1	74	13.91	13.74	13.93		0
	36	0	13.77	13.76	13.72	0-2	0
	36	18	13.80	13.86	13.79		0
	36	37	13.79	13.72	13.89		0
	75	0	13.78	13.73	13.75		0
64QAM	1	0	13.78	13.87	13.96	0-2	0
	1	36	13.89	13.86	14.08		0
	1	74	13.85	13.73	14.13		0
	36	0	13.82	13.76	13.75	0-3	0
	36	18	13.80	13.91	13.82		0
	36	37	13.78	13.71	13.89		0
	75	0	13.77	13.77	13.75		0

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Table 8-225
LTE Band 25 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26090 (1855.0 MHz)	26365 (1882.5 MHz)	26640 (1910.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.74	13.71	13.70	0	0
	1	25	13.72	13.70	13.72		0
	1	49	13.71	13.73	13.75		0
	25	0	13.76	13.83	13.72	0-1	0
	25	12	13.80	13.85	13.80		0
	25	25	13.77	13.77	13.92		0
	50	0	13.80	13.77	13.81		0
16QAM	1	0	13.97	13.89	13.85	0-1	0
	1	25	13.92	13.76	13.85		0
	1	49	13.84	13.83	13.99		0
	25	0	13.76	13.86	13.76	0-2	0
	25	12	13.80	13.85	13.79		0
	25	25	13.78	13.80	13.91		0
	50	0	13.81	13.78	13.81		0
64QAM	1	0	13.81	13.88	14.09	0-2	0
	1	25	13.83	13.86	14.15		0
	1	49	13.74	13.92	14.13		0
	25	0	13.77	13.88	13.74	0-3	0
	25	12	13.77	13.87	13.81		0
	25	25	13.79	13.76	13.93		0
	50	0	13.81	13.80	13.84		0

Table 8-226
LTE Band 25 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26065 (1852.5 MHz)	26365 (1882.5 MHz)	26665 (1912.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.71	13.83	13.72	0	0
	1	12	13.71	13.76	13.85		0
	1	24	13.71	13.82	13.85		0
	12	0	13.70	13.81	13.89	0-1	0
	12	6	13.76	13.82	13.94		0
	12	13	13.71	13.74	13.95		0
	25	0	13.75	13.74	13.97		0
16QAM	1	0	13.72	13.95	13.74	0-1	0
	1	12	13.92	13.83	13.83		0
	1	24	13.86	13.95	13.96		0
	12	0	13.74	13.87	13.93	0-2	0
	12	6	13.71	13.90	13.97		0
	12	13	13.74	13.81	13.98		0
	25	0	13.76	13.78	13.97		0
64QAM	1	0	13.80	13.90	14.11	0-2	0
	1	12	13.79	13.92	14.03		0
	1	24	13.92	13.95	14.11		0
	12	0	13.70	13.84	13.88	0-3	0
	12	6	13.72	13.82	13.98		0
	12	13	13.79	13.79	14.04		0
	25	0	13.71	13.79	13.89		0

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Table 8-227
LTE Band 25 Conducted Powers Ant 4b - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26055 (1851.5 MHz)	26365 (1882.5 MHz)	26675 (1913.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.72	13.70	13.74	0	0
	1	7	13.74	13.73	13.80		0
	1	14	13.71	13.75	13.71		0
	8	0	13.79	13.79	13.88	0-1	0
	8	4	13.76	13.70	13.87		0
	8	7	13.76	13.71	13.85		0
	15	0	13.79	13.73	13.89		0
16QAM	1	0	13.89	13.87	13.89	0-1	0
	1	7	13.95	13.71	13.85		0
	1	14	13.82	13.75	13.88		0
	8	0	13.82	13.87	13.87	0-2	0
	8	4	13.75	13.76	13.87		0
	8	7	13.77	13.76	13.83		0
	15	0	13.81	13.74	13.94		0
64QAM	1	0	13.92	13.80	14.13	0-2	0
	1	7	13.77	13.86	14.07		0
	1	14	13.87	13.74	14.07		0
	8	0	13.83	13.83	13.96	0-3	0
	8	4	13.78	13.73	13.97		0
	8	7	13.82	13.75	13.90		0
	15	0	13.81	13.71	13.92		0

Table 8-228
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26047 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.80	14.07	13.99	0	0
	1	2	13.90	14.10	13.98		0
	1	5	13.83	14.10	14.05		0
	3	0	13.96	14.10	13.98		0
	3	2	14.06	13.75	14.10		0
	3	3	13.97	13.84	14.10		0
	6	0	14.00	13.82	14.10	0-1	0
16QAM	1	0	13.74	13.82	13.73	0-1	0
	1	2	13.72	13.84	13.76		0
	1	5	13.71	13.90	13.79		0
	3	0	13.74	13.93	13.72		0
	3	2	13.77	13.99	13.71		0
	3	3	13.78	13.97	13.77		0
	6	0	13.76	14.05	13.74	0-2	0
64QAM	1	0	13.76	13.96	13.71	0-2	0
	1	2	13.88	14.04	13.75		0
	1	5	13.88	14.10	13.85		0
	3	0	13.77	13.86	13.76		0
	3	2	13.80	13.97	13.73		0
	3	3	13.82	13.97	13.79		0
	6	0	13.80	14.01	13.74	0-3	0

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LTE Band 30

Table 8-229

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

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	12.93	0	0
	1	25	12.89		0
	1	49	12.94		0
	25	0	12.89	0-1	0
	25	12	12.88		0
	25	25	12.98		0
	50	0	12.91		0
16QAM	1	0	12.99	0-1	0
	1	25	12.91		0
	1	49	12.99		0
	25	0	12.67	0-2	0
	25	12	12.65		0
	25	25	12.82		0
	50	0	12.72		0
64QAM	1	0	12.85	0-2	0
	1	25	12.84		0
	1	49	12.95		0
	25	0	12.61	0-3	0
	25	12	12.60		0
	25	25	12.70		0
	50	0	12.61		0

Table 8-230

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

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	12.80	0	0
	1	12	12.80		0
	1	24	12.86		0
	12	0	12.76	0-1	0
	12	6	12.80		0
	12	13	12.81		0
	25	0	12.86		0
16QAM	1	0	13.00	0-1	0
	1	12	12.84		0
	1	24	12.85		0
	12	0	12.58	0-2	0
	12	6	12.61		0
	12	13	12.61		0
	25	0	12.64		0
64QAM	1	0	12.78	0-2	0
	1	12	12.60		0
	1	24	12.82		0
	12	0	12.32	0-3	0
	12	6	12.39		0
	12	13	12.35		0
	25	0	12.41		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 8-231
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	9.17	0	0
	1	25	9.16		0
	1	49	9.11		0
	25	0	9.12	0-1	0
	25	12	9.28		0
	25	25	9.18		0
16QAM	50	0	9.15	0	0
	1	0	9.28		0
	1	25	9.21		0
	1	49	9.27	0-1	0
	25	0	9.16		0
	25	12	9.13		0
	25	25	9.24	0-2	0
	50	0	9.21		0
	50	0	9.01		0
64QAM	1	0	9.21	0-2	0
	1	25	9.02		0
	1	49	9.30		0
	25	0	9.01	0-3	0
	25	12	9.10		0
	25	25	9.02		0
	50	0	9.01		0
	50	0	9.01		0
	50	0	9.01		0

Table 8-232
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	9.32	0	0
	1	12	9.27		0
	1	24	9.11		0
	12	0	9.30	0-1	0
	12	6	9.28		0
	12	13	9.07		0
16QAM	25	0	9.18	0	0
	1	0	9.46		0
	1	12	9.37		0
	1	24	9.27	0-1	0
	12	0	9.36		0
	12	6	9.34		0
	12	13	9.23	0-2	0
	25	0	9.25		0
	25	0	9.25		0
64QAM	1	0	9.33	0-2	0
	1	12	9.34		0
	1	24	9.23		0
	12	0	9.27	0-3	0.7
	12	6	9.19		0.7
	12	13	9.18		0.7
	25	0	9.13		0.7
	25	0	9.13		0.7
	25	0	9.13		0.7

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 8-233
LTE Band 30 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	13.28	0	0
	1	25	13.29		0
	1	49	13.39		0
	25	0	13.25	0-1	0
	25	12	13.27		0
	25	25	13.32		0
16QAM	50	0	13.31	0	0
	1	0	13.40		0
	1	25	13.34		0
	1	49	13.40	0-1	0
	25	0	13.00		0
	25	12	13.02		0
	25	25	13.20	0-2	0
	50	0	13.10		0
64QAM	1	0	13.35	0	0
	1	25	13.34		0
	1	49	13.39		0
	25	0	13.06	0-2	0
	25	12	13.08		0
	25	25	13.25		0
	50	0	13.15	0-3	0
					0

Table 8-234
LTE Band 30 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	13.05	0	0
	1	12	13.13		0
	1	24	13.29		0
	12	0	13.10	0-1	0
	12	6	13.15		0
	12	13	13.21		0
16QAM	25	0	13.26	0	0
	1	0	13.11		0
	1	12	13.23		0
	1	24	13.29	0-1	0
	12	0	12.88		0
	12	6	12.92		0
	12	13	13.00	0-2	0
	25	0	13.01		0
64QAM	1	0	13.12	0	0
	1	12	13.30		0
	1	24	13.19		0
	12	0	12.90	0-2	0
	12	6	12.89		0
	12	13	12.95		0
	25	0	12.92	0-3	0
					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 8-235
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	10.26	0	0
	1	25	10.20		0
	1	49	10.36		0
	25	0	10.20	0-1	0
	25	12	10.22		0
	25	25	10.37		0
16QAM	50	0	10.35	0	0
	1	0	10.29		0
	1	25	10.11		0
	1	49	10.02	0-1	0
	25	0	10.20		0
	25	12	10.27		0
	25	25	10.04	0-2	0
	50	0	10.22		0
	50	0	10.22		0
64QAM	1	0	10.36	0-2	0
	1	25	10.28		0
	1	49	10.00		0
	25	0	10.11	0-3	0
	25	12	10.14		0
	25	25	9.97		0
	50	0	10.09		0
	50	0	10.09		0
	50	0	10.09		0

Table 8-236
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	10.15	0	0
	1	12	10.08		0
	1	24	10.00		0
	12	0	10.08	0-1	0
	12	6	10.16		0
	12	13	9.97		0
16QAM	25	0	10.20	0	0
	1	0	10.14		0
	1	12	10.31		0
	1	24	10.19	0-1	0
	12	0	10.09		0
	12	6	10.30		0
	12	13	10.01	0-2	0
	25	0	10.14		0
	25	0	10.14		0
64QAM	1	0	10.15	0-2	0
	1	12	10.36		0
	1	24	10.27		0
	12	0	10.22	0-3	0
	12	6	10.22		0
	12	13	9.98		0
	25	0	10.29		0
	25	0	10.29		0
	25	0	10.29		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 8-237
LTE Band 30 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	12.61	0	0
	1	25	12.41		0
	1	49	12.27		0
	25	0	12.47	0-1	0
	25	12	12.26		0
	25	25	12.25		0
16QAM	50	0	12.29	0	0
	1	0	12.60		0
	1	25	12.55		0
	1	49	12.52	0-1	0
	25	0	12.23		0
	25	12	12.20		0
	25	25	12.22	0-2	0
	50	0	12.33		0
	50	0	12.34		0
64QAM	1	0	12.51	0-2	0
	1	25	12.54		0
	1	49	12.41		0
	25	0	12.22	0-3	0
	25	12	12.20		0
	25	25	12.21		0
	50	0	12.34		0
	50	0	12.34		0
	50	0	12.34		0

Table 8-238
LTE Band 30 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	12.65	0	0
	1	12	12.42		0
	1	24	12.24		0
	12	0	12.26	0-1	0
	12	6	12.22		0
	12	13	12.29		0
16QAM	25	0	12.28	0-1	0
	1	0	12.67		0
	1	12	12.68		0
	1	24	12.61	0-2	0
	12	0	12.29		0
	12	6	12.25		0
	12	13	12.24	0-3	0
	25	0	12.26		0
	25	0	12.27		0
64QAM	1	0	12.69	0-2	0
	1	12	12.68		0
	1	24	12.59		0
	12	0	12.27	0-3	0
	12	6	12.21		0
	12	13	12.23		0
	25	0	12.27		0
	25	0	12.27		0
	25	0	12.27		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 8-239
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	10.04	0	0
	1	25	10.03		0
	1	49	9.85		0
	25	0	10.14	0-1	0
	25	12	10.07		0
	25	25	10.03		0
16QAM	50	0	10.03	0-1	0
	1	0	9.71		0
	1	25	9.89		0
	1	49	9.99	0-2	0
	25	0	9.75		0
	25	12	9.71		0
	25	25	9.73		0
	50	0	9.81		0
64QAM	1	0	9.85	0-2	0
	1	25	9.76		0
	1	49	9.56		0
	25	0	9.58	0-3	0
	25	12	9.64		0
	25	25	9.70		0
	50	0	9.66		0

Table 8-240
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	10.06	0	0
	1	12	10.05		0
	1	24	9.91		0
	12	0	10.07	0-1	0
	12	6	10.03		0
	12	13	10.02		0
16QAM	25	0	10.01		0
	1	0	9.87	0-1	0
	1	12	9.71		0
	1	24	9.92		0
	12	0	9.71	0-2	0
	12	6	9.62		0
	12	13	9.61		0
	25	0	9.79		0
64QAM	1	0	9.73	0-2	0
	1	12	9.54		0
	1	24	9.42		0
	12	0	9.40	0-3	0
	12	6	9.49		0
	12	13	9.52		0
	25	0	9.51		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 8-241
LTE Band 30 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	13.27	0	0
	1	25	13.34		0
	1	49	13.33		0
	25	0	13.25	0-1	0
	25	12	13.39		0
	25	25	13.40		0
16QAM	50	0	13.33	0	0
	1	0	13.48		0
	1	25	13.50		0
	1	49	13.45	0-1	0
	25	0	13.33		0
	25	12	13.48		0
	25	25	13.35		0
	50	0	13.45		0
64QAM	1	0	13.32	0-2	0
	1	25	13.30		0
	1	49	13.35		0
	25	0	13.13	0-2	0
	25	12	13.20		0
	25	25	13.03		0
	50	0	13.13		0
	50	0	13.13		0

Table 8-242
LTE Band 30 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	13.27	0	0
	1	12	13.42		0
	1	24	13.31		0
	12	0	13.35	0-1	0
	12	6	13.34		0
	12	13	13.23		0
16QAM	25	0	13.31	0	0
	1	0	13.42		0
	1	12	13.50		0
	1	24	13.49	0-1	0
	12	0	13.38		0
	12	6	13.40		0
	12	13	13.28		0
	25	0	13.32		0
64QAM	1	0	13.50	0-2	0
	1	12	13.50		0
	1	24	13.48		0
	12	0	13.35	0-2	0
	12	6	13.37		0
	12	13	13.27		0
	25	0	13.31		0
	25	0	13.31		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 8-243
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	10.50	0	0
	1	25	10.65		0
	1	49	10.60		0
	25	0	10.66	0-1	0
	25	12	10.65		0
	25	25	10.70		0
	50	0	10.62		0
16QAM	1	0	10.66	0-1	0
	1	25	10.52		0
	1	49	10.59		0
	25	0	10.57	0-2	0
	25	12	10.56		0
	25	25	10.57		0
	50	0	10.46		0
64QAM	1	0	10.53	0-2	0
	1	25	10.49		0
	1	49	10.28		0
	25	0	10.38	0-3	0
	25	12	10.37		0
	25	25	10.27		0
	50	0	10.45		0

Table 8-244
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	10.43	0	0
	1	12	10.55		0
	1	24	10.40		0
	12	0	10.32	0-1	0
	12	6	10.61		0
	12	13	10.57		0
	25	0	10.65		0
16QAM	1	0	10.35	0-1	0
	1	12	10.32		0
	1	24	10.37		0
	12	0	10.10	0-2	0
	12	6	10.24		0
	12	13	10.16		0
	25	0	10.40		0
64QAM	1	0	10.42	0-2	0
	1	12	10.26		0
	1	24	10.35		0
	12	0	9.99	0-3	0
	12	6	10.17		0
	12	13	10.13		0
	25	0	10.25		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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LTE Band 7

Table 8-245
LTE Band 7 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.96	11.93	11.83	0	0
	1	50	11.86	12.06	11.72		0
	1	99	11.71	12.20	11.88		0
	50	0	11.91	11.83	11.73	0-1	0
	50	25	11.89	11.91	11.71		0
	50	50	11.81	12.06	11.70		0
	100	0	11.89	11.94	11.70		0
16QAM	1	0	12.34	12.32	12.30	0-1	0
	1	50	12.35	12.39	11.94		0
	1	99	12.20	12.69	11.73		0
	50	0	11.97	12.03	11.71	0-2	0
	50	25	12.02	12.03	11.70		0
	50	50	11.95	12.07	11.73		0
	100	0	12.00	12.04	11.72		0
64QAM	1	0	12.31	12.28	12.30	0-2	0
	1	50	12.33	12.46	12.01		0
	1	99	12.14	12.54	12.28		0
	50	0	11.96	12.06	11.71	0-3	0
	50	25	12.00	12.05	11.73		0
	50	50	11.95	12.04	11.72		0
	100	0	11.98	12.10	11.70		0

Table 8-246
LTE Band 7 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.24	12.37	11.70	0	0
	1	36	12.27	12.36	11.74		0
	1	74	12.19	12.43	11.91		0
	36	0	12.31	12.26	11.71	0-1	0
	36	18	12.28	12.24	11.82		0
	36	37	12.23	12.36	11.94		0
16QAM	75	0	12.28	12.28	11.82	0	
	1	0	12.65	12.68	12.13	0-1	0
	1	36	12.56	12.68	12.06		0
	1	74	12.68	12.67	12.17		0
	36	0	12.38	12.33	11.94	0-2	0
	36	18	12.42	12.48	12.06		0
	36	37	12.31	12.56	12.14		0
64QAM	75	0	12.42	12.50	12.06	0	
	1	0	12.50	12.69	12.12	0-2	0
	1	36	12.54	12.68	12.20		0
	1	74	12.48	12.65	12.17		0
	36	0	12.45	12.43	11.93	0-3	0
	36	18	12.44	12.41	12.03		0
	36	37	12.31	12.34	12.19		0
	75	0	12.43	12.52	12.08		0

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Table 8-247
LTE Band 7 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.31	12.18	11.77	0	0
	1	25	12.14	12.20	11.86		0
	1	49	12.13	12.32	12.10		0
	25	0	12.23	12.17	11.86	0-1	0
	25	12	12.21	12.16	11.94		0
	25	25	12.18	12.32	12.11		0
	50	0	12.15	12.25	11.97		0
16QAM	1	0	12.42	12.37	11.88	0-1	0
	1	25	12.52	12.64	12.20		0
	1	49	12.61	12.68	12.20		0
	25	0	12.40	12.44	12.13	0-2	0
	25	12	12.39	12.45	12.19		0
	25	25	12.38	12.39	12.14		0
	50	0	12.36	12.53	12.18		0
64QAM	1	0	12.66	12.64	12.20	0-2	0
	1	25	12.49	12.61	12.25		0
	1	49	12.59	12.68	12.49		0
	25	0	12.27	12.44	12.12	0-3	0
	25	12	12.45	12.44	12.17		0
	25	25	12.42	12.42	12.11		0
	50	0	12.37	12.53	12.10		0

Table 8-248
LTE Band 7 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.38	12.22	11.80	0	0
	1	12	12.17	12.27	11.92		0
	1	24	12.17	12.33	11.98		0
	12	0	12.29	12.17	12.00	0-1	0
	12	6	12.27	12.14	12.03		0
	12	13	12.29	12.22	12.07		0
16QAM	25	0	12.29	12.24	12.05	0	
	1	0	12.42	12.39	12.08	0-1	0
	1	12	12.41	12.41	12.19		0
	1	24	12.59	12.57	12.20		0
	12	0	12.30	12.42	12.08	0-2	0
	12	6	12.32	12.38	12.17		0
	12	13	12.28	12.50	12.21		0
25	0	12.32	12.44	12.18	0		
64QAM	1	0	12.58	12.58	12.33	0-2	0
	1	12	12.57	12.63	12.46		0
	1	24	12.63	12.67	12.45		0
	12	0	12.33	12.43	12.15	0-3	0
	12	6	12.31	12.43	12.16		0
	12	13	12.33	12.51	12.11		0
	25	0	12.31	12.47	12.11		0

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Table 8-249
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	8.89	8.70	8.87	0	0
	1	50	9.03	8.80	9.00		0
	1	99	9.09	8.82	8.88		0
	50	0	8.90	8.75	8.70	0-1	0
	50	25	9.00	8.92	8.71		0
	50	50	9.08	9.02	8.76		0
	100	0	8.97	8.92	8.73		0
16QAM	1	0	9.04	9.04	8.71	0-1	0
	1	50	9.19	9.12	8.72		0
	1	99	9.15	9.13	9.01		0
	50	0	8.99	8.89	8.70	0-2	0
	50	25	9.03	9.06	8.71		0
	50	50	9.03	9.06	8.73		0
	100	0	8.88	9.04	8.75		0
64QAM	1	0	9.01	9.15	9.13	0-2	0
	1	50	9.13	9.20	9.01		0
	1	99	9.19	9.05	8.82		0
	50	0	8.98	8.89	8.71	0-3	0
	50	25	9.04	8.94	8.75		0
	50	50	9.14	8.92	8.71		0
	100	0	9.02	8.99	8.70		0

Table 8-250
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	9.49	9.04	9.37	0	0
	1	36	9.34	9.06	9.35		0
	1	74	9.28	9.09	9.52		0
	36	0	9.27	9.06	9.27	0-1	0
	36	18	9.18	9.01	9.31		0
	36	37	9.18	9.04	9.32		0
	75	0	9.15	9.07	9.31		0
16QAM	1	0	9.53	9.00	9.52	0-1	0
	1	36	9.47	9.13	9.51		0
	1	74	9.47	9.25	9.49		0
	36	0	9.29	9.00	9.27	0-2	0
	36	18	9.15	9.13	9.31		0
	36	37	9.11	9.07	9.34		0
	75	0	9.10	9.03	9.22		0
64QAM	1	0	9.49	9.30	9.51	0-2	0
	1	36	9.27	9.33	9.58		0
	1	74	9.38	9.38	9.53		0
	36	0	9.23	9.05	9.25	0-3	0
	36	18	9.13	9.02	9.29		0
	36	37	9.10	9.00	9.31		0
	75	0	9.07	9.04	9.29		0

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Table 8-251
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	9.38	8.99	9.24	0	0
	1	25	9.28	9.05	9.11		0
	1	49	9.45	9.18	9.18		0
	25	0	9.13	9.09	9.11	0-1	0
	25	12	9.22	9.14	9.19		0
	25	25	9.31	9.17	9.27		0
	50	0	9.23	9.16	9.19		0
16QAM	1	0	9.55	9.11	9.44	0-1	0
	1	25	9.27	9.23	9.44		0
	1	49	9.46	9.31	9.55		0
	25	0	9.12	9.03	9.13	0-2	0
	25	12	9.20	9.10	9.18		0
	25	25	9.32	9.16	9.26		0
	50	0	9.20	9.16	9.27		0
64QAM	1	0	9.42	9.24	9.30	0-2	0
	1	25	9.04	9.31	9.30		0
	1	49	9.32	9.34	9.35		0
	25	0	8.96	9.08	9.10	0-3	0
	25	12	9.04	9.14	9.18		0
	25	25	9.10	9.17	9.24		0
	50	0	9.07	9.14	9.20		0

Table 8-252
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	9.47	9.21	9.32	0	0
	1	12	9.55	9.34	9.05		0
	1	24	9.45	9.37	9.15		0
	12	0	9.33	9.31	9.11	0-1	0
	12	6	9.45	9.38	9.15		0
	12	13	9.42	9.38	9.19		0
	25	0	9.29	9.20	9.30		0
16QAM	1	0	9.48	9.11	9.51	0-1	0
	1	12	9.36	9.21	9.51		0
	1	24	9.25	9.38	9.57		0
	12	0	9.15	9.08	9.14	0-2	0
	12	6	9.27	9.18	9.12		0
	12	13	9.26	9.19	9.19		0
	25	0	9.25	9.18	9.09		0
64QAM	1	0	9.51	9.19	9.46	0-2	0
	1	12	9.42	9.28	9.27		0
	1	24	9.34	9.48	9.40		0
	12	0	9.18	9.07	9.08	0-3	0
	12	6	9.29	9.13	9.13		0
	12	13	9.25	9.19	9.17		0
	25	0	9.25	9.21	9.10		0

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Table 8-253
LTE Band 7 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.91	12.04	11.77	0	0
	1	50	11.98	12.09	11.62		0
	1	99	12.05	12.29	11.85		0
	50	0	11.87	12.01	11.74	0-1	0
	50	25	11.96	12.07	11.73		0
	50	50	12.01	12.14	11.83		0
	100	0	11.96	12.13	11.75		0
16QAM	1	0	12.04	12.00	11.89	0-1	0
	1	50	11.94	12.11	11.60		0
	1	99	12.02	12.20	11.77		0
	50	0	11.50	11.75	11.51	0-2	0
	50	25	11.59	11.88	11.46		0
	50	50	11.68	11.91	11.48		0
	100	0	11.61	11.90	11.46		0
64QAM	1	0	11.80	12.12	11.77	0-2	0
	1	50	11.71	12.25	11.53		0
	1	99	11.81	12.27	11.68		0
	50	0	11.44	11.77	11.49	0-3	0
	50	25	11.54	11.87	11.44		0
	50	50	11.64	11.90	11.47		0
	100	0	11.61	11.91	11.44		0

Table 8-254
LTE Band 7 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.98	12.18	11.79	0	0
	1	36	12.05	12.18	11.73		0
	1	74	12.13	12.14	11.97		0
	36	0	11.96	12.18	11.68	0-1	0
	36	18	12.14	12.23	11.75		0
	36	37	12.13	12.25	11.83		0
	75	0	12.14	12.28	11.78		0
16QAM	1	0	12.16	12.26	11.83	0-1	0
	1	36	11.93	12.28	11.81		0
	1	74	12.30	12.29	12.13		0
	36	0	11.62	11.97	11.58	0-2	0
	36	18	11.82	11.97	11.60		0
	36	37	11.85	12.07	11.68		0
	75	0	11.78	12.00	11.58		0
64QAM	1	0	11.95	12.12	12.04	0-2	0
	1	36	12.06	12.26	12.02		0
	1	74	12.29	12.29	12.10		0
	36	0	11.56	11.98	11.58	0-3	0
	36	18	11.76	12.02	11.56		0
	36	37	11.85	12.13	11.65		0
	75	0	11.79	12.06	11.54		0

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Table 8-255
LTE Band 7 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.29	12.18	11.73	0	0
	1	25	12.06	12.18	11.78		0
	1	49	12.13	12.19	11.96		0
	25	0	12.03	12.18	11.78	0-1	0
	25	12	11.97	12.20	11.84		0
	25	25	12.06	12.28	11.95		0
	50	0	12.03	12.28	11.84		0
16QAM	1	0	12.28	12.21	11.83	0-1	0
	1	25	12.10	12.28	11.89		0
	1	49	12.11	12.29	12.06		0
	25	0	11.52	11.68	11.36	0-2	0
	25	12	11.50	11.75	11.46		0
	25	25	11.59	11.86	11.56		0
	50	0	11.59	11.79	11.49		0
64QAM	1	0	12.25	12.30	11.77	0-2	0
	1	25	12.13	12.28	11.84		0
	1	49	12.30	12.30	12.05		0
	25	0	11.78	11.99	11.54	0-3	0
	25	12	11.75	12.02	11.66		0
	25	25	11.83	12.15	11.76		0
	50	0	11.78	12.06	11.66		0

Table 8-256
LTE Band 7 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.26	12.15	11.90	0	0
	1	12	11.94	12.23	11.94		0
	1	24	11.88	12.24	11.95		0
	12	0	12.08	12.20	11.93	0-1	0
	12	6	11.93	12.20	11.95		0
	12	13	11.89	12.25	11.93		0
16QAM	25	0	11.95	12.27	11.97		0
	1	0	12.29	12.20	11.74	0-1	0
	1	12	12.08	12.28	11.81		0
	1	24	12.05	12.24	11.83		0
	12	0	11.89	12.00	11.71	0-2	0
	12	6	11.87	12.01	11.74		0
	12	13	11.69	12.05	11.83		0
25	0	11.83	12.05	11.80	0		
64QAM	1	0	12.28	12.25	12.04	0-2	0
	1	12	12.16	12.29	12.02		0
	1	24	12.17	12.28	12.09		0
	12	0	11.82	11.90	11.69	0-3	0
	12	6	11.86	11.78	11.73		0
	12	13	11.74	11.88	11.75		0
	25	0	11.78	11.91	11.74		0

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Table 8-257
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	8.99	9.16	9.19	0	0
	1	50	9.13	9.29	9.18		0
	1	99	9.05	9.30	9.08		0
	50	0	9.00	9.08	8.98	0-1	0
	50	25	9.03	9.18	8.88		0
	50	50	9.11	9.19	8.97		0
	100	0	9.05	9.18	8.87		0
16QAM	1	0	8.74	8.91	8.78	0-1	0
	1	50	8.79	9.05	8.83		0
	1	99	8.95	9.20	8.95		0
	50	0	8.32	8.30	8.31	0-2	0
	50	25	8.41	8.37	8.37		0
	50	50	8.35	8.45	8.34		0
	100	0	8.31	8.40	8.31		0
64QAM	1	0	8.91	8.60	8.99	0-2	0
	1	50	9.01	8.95	8.96		0
	1	99	8.81	8.91	8.61		0
	50	0	8.31	8.46	8.35	0-3	0
	50	25	8.38	8.61	8.30		0
	50	50	8.33	8.62	8.32		0
	100	0	8.31	8.61	8.31		0

Table 8-258
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	8.98	8.79	8.76	0	0
	1	36	8.71	8.91	8.75		0
	1	74	8.94	8.90	8.82		0
	36	0	8.94	8.74	8.63	0-1	0
	36	18	8.84	8.95	8.87		0
	36	37	8.96	9.11	8.89		0
	75	0	8.89	9.06	8.84		0
16QAM	1	0	9.10	9.04	9.22	0-1	0
	1	36	9.16	9.21	9.26		0
	1	74	9.11	9.05	9.14		0
	36	0	8.79	8.85	8.60	0-2	0
	36	18	8.66	8.85	8.86		0
	36	37	8.75	9.11	8.82		0
	75	0	8.67	9.03	8.73		0
64QAM	1	0	9.21	9.11	9.13	0-2	0
	1	36	8.95	8.96	9.13		0
	1	74	9.14	9.01	9.12		0
	36	0	8.79	8.76	8.70	0-3	0
	36	18	8.75	9.05	8.79		0
	36	37	8.88	9.13	8.86		0
	75	0	8.65	8.99	8.85		0

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Table 8-259
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	8.98	8.66	8.53	0	0
	1	25	8.66	8.71	8.51		0
	1	49	8.80	8.69	8.79		0
	25	0	8.79	8.53	8.52	0-1	0
	25	12	8.67	8.70	8.65		0
	25	25	8.65	8.86	8.79		0
16QAM	50	0	8.73	8.84	8.65	0	
	1	0	9.15	9.12	8.79	0-1	0
	1	25	9.06	9.12	8.92		0
	1	49	8.99	9.30	8.99		0
	25	0	8.64	8.69	8.48	0-2	0
	25	12	8.46	8.58	8.66		0
	25	25	8.40	8.84	8.75		0
50	0	8.49	8.80	8.54	0		
64QAM	1	0	9.30	9.10	8.70	0-2	0
	1	25	9.05	9.25	8.87		0
	1	49	9.05	9.13	9.00		0
	25	0	8.67	8.49	8.60	0-3	0
	25	12	8.53	8.76	8.61		0
	25	25	8.59	8.85	8.78		0
	50	0	8.47	8.75	8.69		0

Table 8-260
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	8.69	8.52	8.39	0	0
	1	12	8.51	8.59	8.42		0
	1	24	8.42	8.56	8.56		0
	12	0	8.67	8.52	8.44	0-1	0
	12	6	8.57	8.55	8.59		0
	12	13	8.51	8.68	8.60		0
	25	0	8.63	8.76	8.59		0
16QAM	1	0	8.92	8.79	8.80	0-1	0
	1	12	8.85	8.83	8.91		0
	1	24	8.54	9.14	8.74		0
	12	0	8.50	8.67	8.40	0-2	0
	12	6	8.37	8.56	8.67		0
	12	13	8.49	8.68	8.59		0
	25	0	8.40	8.76	8.44		0
64QAM	1	0	8.84	8.77	8.62	0-2	0
	1	12	8.72	8.89	8.65		0
	1	24	8.36	9.09	8.73		0
	12	0	8.61	8.66	8.46	0-3	0
	12	6	8.56	8.83	8.57		0
	12	13	8.47	8.81	8.61		0
	25	0	8.42	8.75	8.59		0

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Table 8-261
LTE Band 7 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.47	12.39	12.14	0	0
	1	50	12.50	12.22	12.09		0
	1	99	12.49	12.21	12.29		0
	50	0	12.26	12.30	11.86	0-1	0
	50	25	12.38	12.33	11.85		0
	50	50	12.46	12.34	11.91		0
	100	0	12.43	12.31	11.89		0
16QAM	1	0	12.33	12.47	11.92	0-1	0
	1	50	12.47	12.43	11.67		0
	1	99	12.48	12.31	11.82		0
	50	0	11.86	11.78	11.52	0-2	0
	50	25	11.96	11.83	11.50		0
	50	50	12.06	11.77	11.56		0
	100	0	11.97	11.80	11.58		0
64QAM	1	0	12.47	12.26	11.85	0-2	0
	1	50	12.50	12.05	11.59		0
	1	99	12.30	11.97	11.70		0
	50	0	12.00	11.79	11.52	0-3	0
	50	25	12.11	11.82	11.50		0
	50	50	12.14	11.77	11.55		0
	100	0	11.94	11.79	11.56		0

Table 8-262
LTE Band 7 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.27	12.17	11.70	0	0
	1	36	12.30	12.30	11.81		0
	1	74	12.43	12.16	11.85		0
	36	0	12.25	12.11	11.75	0-1	0
	36	18	12.33	12.19	11.88		0
	36	37	12.45	12.17	11.99		0
	75	0	12.36	12.18	12.06		0
16QAM	1	0	12.32	12.47	12.21	0-1	0
	1	36	12.35	12.49	12.16		0
	1	74	12.43	12.41	12.24		0
	36	0	11.91	11.90	11.77	0-2	0
	36	18	11.93	11.97	11.82		0
	36	37	11.95	11.93	11.78		0
	75	0	11.87	11.95	11.85		0
64QAM	1	0	12.42	12.50	12.26	0-2	0
	1	36	12.47	12.49	12.08		0
	1	74	12.47	12.29	12.14		0
	36	0	12.08	12.16	11.85	0-3	0
	36	18	12.12	12.22	11.98		0
	36	37	12.24	12.11	11.91		0
	75	0	12.11	12.14	11.94		0

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Table 8-263
LTE Band 7 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.20	12.25	11.81	0	0
	1	25	12.21	12.30	11.78		0
	1	49	12.43	12.28	11.91		0
	25	0	12.40	12.24	11.74	0-1	0
	25	12	12.34	12.27	11.91		0
	25	25	12.38	12.24	11.97		0
	50	0	12.36	12.27	11.93		0
16QAM	1	0	12.44	12.50	12.32	0-1	0
	1	25	12.38	12.45	12.11		0
	1	49	12.40	12.40	12.24		0
	25	0	12.14	12.04	11.71	0-2	0
	25	12	12.01	12.08	11.71		0
	25	25	12.06	12.05	11.71		0
	50	0	12.06	12.07	11.67		0
64QAM	1	0	12.48	12.27	12.15	0-2	0
	1	25	12.44	12.33	12.02		0
	1	49	12.47	12.20	12.19		0
	25	0	12.19	11.80	11.87	0-3	0
	25	12	12.11	11.80	11.87		0
	25	25	12.15	11.76	11.92		0
	50	0	12.13	11.80	11.89		0

Table 8-264
LTE Band 7 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.09	12.20	11.89	0	0
	1	12	12.17	12.19	11.97		0
	1	24	12.10	12.16	12.01		0
	12	0	12.10	12.12	11.79	0-1	0
	12	6	12.08	12.13	11.84		0
	12	13	12.07	12.12	11.88		0
	25	0	12.15	12.16	11.89		0
16QAM	1	0	12.50	12.49	12.20	0-1	0
	1	12	12.45	12.44	12.09		0
	1	24	12.50	12.48	12.25		0
	12	0	12.14	12.00	11.72	0-2	0
	12	6	12.15	11.94	11.72		0
	12	13	12.06	11.96	11.72		0
	25	0	12.15	11.93	11.72		0
64QAM	1	0	12.40	12.49	12.30	0-2	0
	1	12	12.29	12.44	12.01		0
	1	24	12.41	12.35	12.11		0
	12	0	12.08	11.94	11.76	0-3	0
	12	6	12.07	12.03	11.84		0
	12	13	11.98	12.02	11.83		0
	25	0	12.15	11.99	11.78		0

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Table 8-265
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	9.15	9.33	9.30	0	0
	1	50	9.30	9.16	9.13		0
	1	99	9.20	9.42	9.34		0
	50	0	9.40	9.36	9.14	0-1	0
	50	25	9.41	9.37	9.07		0
	50	50	9.40	9.32	9.08		0
	100	0	9.29	9.21	9.09		0
16QAM	1	0	9.23	9.32	9.36	0-1	0
	1	50	9.07	9.29	8.99		0
	1	99	9.10	9.19	8.85		0
	50	0	8.80	9.19	8.73	0-2	0
	50	25	9.03	9.04	8.87		0
	50	50	8.97	9.14	8.85		0
	100	0	9.02	9.15	9.01		0
64QAM	1	0	9.18	9.29	9.03	0-2	0
	1	50	8.93	9.12	8.75		0
	1	99	9.07	9.10	8.70		0
	50	0	8.98	8.98	8.78	0-3	0
	50	25	9.11	9.14	8.53		0
	50	50	9.10	9.09	8.62		0
	100	0	9.02	9.01	8.64		0

Table 8-266
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	9.01	9.13	8.80	0	0
	1	36	8.92	9.26	8.54		0
	1	74	9.01	9.06	8.60		0
	36	0	8.80	9.11	8.54	0-1	0
	36	18	8.83	9.24	8.73		0
	36	37	8.86	9.25	8.74		0
	75	0	8.93	9.27	8.67		0
16QAM	1	0	9.23	9.23	8.84	0-1	0
	1	36	8.94	9.08	8.78		0
	1	74	8.81	9.16	8.64		0
	36	0	8.66	9.08	8.78	0-2	0
	36	18	8.62	8.94	8.69		0
	36	37	8.61	9.06	8.64		0
	75	0	8.67	9.09	8.56		0
64QAM	1	0	8.83	9.13	9.10	0-2	0
	1	36	8.73	9.31	8.99		0
	1	74	8.83	9.24	8.80		0
	36	0	8.63	8.97	8.65	0-3	0
	36	18	8.75	9.16	8.66		0
	36	37	8.75	9.07	8.74		0
	75	0	8.65	9.03	8.70		0

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Table 8-267
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	8.89	9.05	8.65	0	0
	1	25	8.73	9.07	8.56		0
	1	49	9.02	9.07	8.61		0
	25	0	9.04	8.98	8.64	0-1	0
	25	12	9.01	9.10	8.63		0
	25	25	9.03	9.18	8.59		0
	50	0	9.04	9.17	8.57		0
16QAM	1	0	9.17	9.18	8.84	0-1	0
	1	25	9.17	8.97	8.55		0
	1	49	8.96	9.32	8.74		0
	25	0	8.91	9.11	8.54	0-2	0
	25	12	8.75	8.99	8.65		0
	25	25	8.82	9.16	8.55		0
	50	0	8.83	9.15	8.74		0
64QAM	1	0	9.13	9.31	8.96	0-2	0
	1	25	8.89	9.40	8.75		0
	1	49	8.78	9.36	8.74		0
	25	0	8.77	8.94	8.58	0-3	0
	25	12	8.73	9.17	8.52		0
	25	25	8.80	9.12	8.59		0
	50	0	8.68	9.08	8.64		0

Table 8-268
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	8.80	9.02	8.60	0	0
	1	12	8.85	9.08	8.54		0
	1	24	8.90	9.05	8.63		0
	12	0	8.81	8.81	8.56	0-1	0
	12	6	8.86	8.93	8.65		0
	12	13	8.85	9.06	8.65		0
16QAM	25	0	8.93	9.03	8.64	0	
	1	0	9.07	9.06	8.77	0-1	0
	1	12	9.15	9.02	8.70		0
	1	24	8.93	9.31	8.69		0
	12	0	8.64	9.04	8.60	0-2	0
	12	6	8.64	8.91	8.63		0
	12	13	8.61	9.03	8.57		0
25	0	8.73	8.98	8.69	0		
64QAM	1	0	8.77	9.20	8.75	0-2	0
	1	12	8.87	9.17	8.80		0
	1	24	8.82	9.27	8.69		0
	12	0	8.75	8.82	8.65	0-3	0
	12	6	8.81	8.96	8.59		0
	12	13	8.81	9.01	8.59		0
	25	0	8.73	8.92	8.62		0

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Table 8-269
LTE Band 7 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.16	13.22	13.12	0	0
	1	50	12.98	13.06	13.14		0
	1	99	13.05	12.91	13.06		0
	50	0	12.95	13.24	13.03	0-1	0
	50	25	12.98	13.16	13.06		0
	50	50	13.05	13.03	12.92		0
	100	0	13.05	13.20	13.04		0
16QAM	1	0	12.89	13.20	12.67	0-1	0
	1	50	12.83	13.11	12.71		0
	1	99	12.74	13.09	12.76		0
	50	0	12.49	12.75	12.46	0-2	0
	50	25	12.52	12.72	12.53		0
	50	50	12.56	12.66	12.47		0
	100	0	12.56	12.73	12.51		0
64QAM	1	0	12.99	12.89	12.55	0-2	0
	1	50	12.90	12.87	12.62		0
	1	99	12.88	12.82	12.67		0
	50	0	12.46	12.78	12.46	0-3	0
	50	25	12.51	12.74	12.52		0
	50	50	12.53	12.67	12.46		0
	100	0	12.54	12.72	12.50		0

Table 8-270
LTE Band 7 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.68	13.05	12.64	0	0
	1	36	12.77	13.10	12.79		0
	1	74	12.73	13.13	12.77		0
	36	0	12.73	12.93	12.78	0-1	0
	36	18	12.77	12.97	12.85		0
	36	37	12.72	12.94	12.84		0
	75	0	12.77	12.95	12.85		0
16QAM	1	0	12.63	12.62	12.58	0-1	0
	1	36	12.90	12.63	12.68		0
	1	74	12.62	12.69	12.47		0
	36	0	12.40	12.41	12.35	0-2	0
	36	18	12.48	12.41	12.38		0
	36	37	12.42	12.33	12.33		0
	75	0	12.39	12.39	12.40		0
64QAM	1	0	12.30	12.68	12.47	0-2	0
	1	36	12.58	12.62	12.82		0
	1	74	12.30	12.60	12.83		0
	36	0	12.42	12.52	12.37	0-3	0
	36	18	12.47	12.51	12.46		0
	36	37	12.43	12.34	12.44		0
	75	0	12.44	12.46	12.40		0

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Table 8-271
LTE Band 7 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.85	12.99	12.79	0	0
	1	25	12.85	12.91	12.87		0
	1	49	12.82	12.87	12.92		0
	25	0	12.83	13.00	12.96	0-1	0
	25	12	12.83	12.95	12.94		0
	25	25	12.86	12.88	12.94		0
	50	0	12.81	13.00	12.94		0
16QAM	1	0	12.45	12.78	12.62	0-1	0
	1	25	12.71	12.58	12.78		0
	1	49	12.62	12.43	12.74		0
	25	0	12.33	12.45	12.53	0-2	0
	25	12	12.30	12.41	12.49		0
	25	25	12.30	12.30	12.47		0
	50	0	12.31	12.43	12.49		0
64QAM	1	0	12.60	12.78	12.67	0-2	0
	1	25	12.77	12.73	12.55		0
	1	49	12.48	12.77	12.60		0
	25	0	12.31	12.48	12.36	0-3	0
	25	12	12.31	12.54	12.31		0
	25	25	12.33	12.58	12.37		0
	50	0	12.30	12.49	12.30		0

Table 8-272
LTE Band 7 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.77	12.83	12.86	0	0
	1	12	12.87	12.82	12.81		0
	1	24	12.97	12.82	12.86		0
	12	0	12.75	12.84	12.95	0-1	0
	12	6	12.77	12.83	12.90		0
	12	13	12.80	12.86	12.95		0
16QAM	25	0	12.78	12.82	12.92		0
	1	0	12.71	12.87	12.60	0-1	0
	1	12	12.76	12.83	12.65		0
	1	24	12.56	12.85	12.72		0
	12	0	12.34	12.53	12.39	0-2	0
	12	6	12.34	12.47	12.37		0
	12	13	12.34	12.49	12.39		0
25	0	12.34	12.48	12.35	0		
64QAM	1	0	12.73	12.45	12.75	0-2	0
	1	12	12.69	12.61	12.73		0
	1	24	12.52	12.53	12.53		0
	12	0	12.38	12.44	12.45	0-3	0
	12	6	12.34	12.38	12.45		0
	12	13	12.42	12.44	12.45		0
	25	0	12.36	12.38	12.40		0

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Table 8-273
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.08	9.84	10.14	0	0
	1	50	10.03	9.81	10.30		0
	1	99	9.90	9.87	10.01		0
	50	0	9.93	9.92	10.09	0-1	0
	50	25	9.91	9.92	10.16		0
	50	50	9.87	9.91	10.05		0
	100	0	9.88	9.92	10.12		0
16QAM	1	0	10.30	9.89	9.77	0-1	0
	1	50	10.28	10.01	9.73		0
	1	99	9.88	9.66	9.85		0
	50	0	10.02	9.63	9.45	0-2	0
	50	25	9.93	9.71	9.61		0
	50	50	9.83	9.64	9.69		0
	100	0	9.87	9.70	9.58		0
64QAM	1	0	10.04	9.74	9.90	0-2	0
	1	50	10.15	9.84	10.00		0
	1	99	9.64	9.76	10.13		0
	50	0	9.88	9.82	9.82	0-3	0
	50	25	9.78	9.67	9.63		0
	50	50	9.66	9.64	9.63		0
	100	0	9.71	9.77	9.56		0

Table 8-274
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.28	10.01	9.92	0	0
	1	36	10.13	10.09	9.84		0
	1	74	9.93	9.72	9.75		0
	36	0	10.11	9.99	9.94	0-1	0
	36	18	9.98	10.10	9.99		0
	36	37	9.88	9.96	9.97		0
	75	0	9.99	10.08	9.92		0
16QAM	1	0	10.12	10.18	10.14	0-1	0
	1	36	10.23	10.03	9.95		0
	1	74	10.00	9.96	9.79		0
	36	0	9.86	10.15	9.93	0-2	0
	36	18	9.73	10.09	10.02		0
	36	37	9.67	9.95	9.91		0
	75	0	9.69	10.07	9.87		0
64QAM	1	0	10.05	10.03	10.01	0-2	0
	1	36	10.10	10.13	10.18		0
	1	74	9.88	10.02	9.92		0
	36	0	10.00	9.88	9.96	0-3	0
	36	18	9.94	10.07	9.96		0
	36	37	9.85	9.91	9.97		0
	75	0	9.82	9.97	9.96		0

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Table 8-275
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.25	10.05	9.98	0	0
	1	25	10.15	10.12	10.03		0
	1	49	9.99	9.92	10.13		0
	25	0	10.15	10.07	10.02	0-1	0
	25	12	10.11	10.20	10.11		0
	25	25	10.01	10.09	10.21		0
	50	0	10.17	10.17	10.09		0
16QAM	1	0	10.04	10.20	10.18	0-1	0
	1	25	10.24	10.12	10.02		0
	1	49	9.88	10.17	10.15		0
	25	0	10.10	10.23	9.89	0-2	0
	25	12	9.98	10.12	10.13		0
	25	25	9.80	10.13	10.13		0
	50	0	10.02	10.20	9.98		0
64QAM	1	0	10.13	10.24	10.17	0-2	0
	1	25	10.22	10.18	10.14		0
	1	49	9.99	10.11	10.18		0
	25	0	10.07	10.14	10.01	0-3	0
	25	12	10.06	10.13	10.04		0
	25	25	9.95	10.04	10.16		0
	50	0	10.03	10.14	10.12		0

Table 8-276
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.05	10.30	10.10	0	0
	1	12	10.18	10.23	10.00		0
	1	24	10.18	10.08	10.10		0
	12	0	10.10	10.05	10.09	0-1	0
	12	6	10.16	10.14	10.23		0
	12	13	10.19	10.13	10.16		0
16QAM	25	0	10.20	10.18	10.21		0
	1	0	10.17	10.16	10.21	0-1	0
	1	12	10.14	10.17	10.26		0
	1	24	10.14	10.17	10.17		
	12	0	10.06	10.26	9.87	0-2	0
	12	6	9.98	10.14	10.13		0
	12	13	9.96	10.14	10.14		0
25	0	9.96	10.14	9.97	0		
64QAM	1	0	10.10	10.24	10.13	0-2	0
	1	12	10.19	10.13	10.15		0
	1	24	10.09	10.12	10.17		0
	12	0	9.98	10.07	10.00	0-3	0
	12	6	10.00	10.25	10.01		0
	12	13	10.11	10.08	10.10		0
	25	0	10.01	10.10	10.17		0

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LTE Band 41

Table 8-277

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	14.13	13.92	14.14	13.71	13.90	0	0
	1	50	13.70	13.87	13.93	13.70	13.83		0
	1	99	13.82	13.92	13.88	13.70	13.88		0
	50	0	13.89	13.78	14.04	13.77	13.83	0-1	0
	50	25	13.71	13.87	13.90	13.71	13.81		0
	50	50	13.73	13.88	13.89	13.72	13.84		0
16QAM	100	0	13.70	13.88	14.03	13.71	13.81	0	
	1	0	14.46	14.23	14.49	14.04	14.27	0-1	0
	1	50	14.02	14.32	14.33	13.90	14.21		0
	1	99	14.14	14.24	14.12	13.84	14.25		0
	50	0	14.27	14.22	14.34	13.92	14.24	0-2	0
	50	25	14.03	14.29	14.31	13.87	14.21		0
50	50	14.12	14.28	14.32	13.87	14.28	0		
64QAM	100	0	14.00	14.30	14.33	13.89	14.23	0-2	0
	1	0	14.20	14.30	14.43	14.11	14.32		0
	1	50	13.97	14.33	14.38	13.94	14.30		0
	1	99	14.24	14.37	14.27	13.96	14.31	0-3	0
	50	0	14.33	14.24	14.36	13.94	14.24		0
	50	25	14.00	14.28	14.30	13.90	14.23		0
	50	50	14.14	14.31	14.32	13.90	14.26	0	
	100	0	13.95	14.29	14.27	13.87	14.22	0	

Table 8-278

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	14.20	14.04	14.16	13.73	14.07	0	0
	1	36	14.12	14.13	14.15	13.81	14.18		0
	1	74	14.18	14.05	14.08	13.77	14.12		0
	36	0	14.20	14.07	14.15	13.83	14.11	0-1	0
	36	18	14.17	14.13	14.20	13.85	14.15		0
	36	37	14.17	14.07	14.16	13.85	14.16		0
	75	0	14.06	14.11	14.18	13.81	14.18		0
16QAM	1	0	14.20	13.94	14.16	13.70	13.96	0-1	0
	1	36	14.00	13.92	14.16	13.97	14.12		0
	1	74	14.15	13.99	14.16	13.75	14.14		0
	36	0	14.16	14.02	14.12	13.81	14.11	0-2	0
	36	18	14.12	14.09	14.13	13.82	14.09		0
	36	37	14.10	14.02	14.07	13.85	14.12		0
	75	0	14.01	14.07	14.09	13.80	14.16		0
64QAM	1	0	14.20	13.93	14.02	13.72	14.00	0-2	0
	1	36	14.18	13.95	14.06	13.80	14.12		0
	1	74	14.02	13.99	13.95	13.89	14.12		0
	36	0	14.19	14.05	14.12	13.79	14.10	0-3	0
	36	18	14.17	14.10	14.16	13.82	14.16		0
	36	37	14.19	14.09	14.16	13.87	14.15		0
	75	0	14.04	14.10	14.15	13.81	14.11		0

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Table 8-279
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	14.18	14.13	14.09	13.85	14.16	0	0	
	1	25	14.11	14.15	14.07	13.81	14.05		0	
	1	49	14.12	14.15	14.09	13.88	14.15		0	
	25	0	14.08	14.16	14.15	13.83	14.16	0-1	0	
	25	12	14.07	14.09	14.14	13.79	14.15		0	
	25	25	14.16	14.11	14.16	13.87	14.14		0	
16QAM	50	0	14.08	14.12	14.18	13.83	14.18	0		
	1	0	14.19	14.12	14.12	13.85	14.10	0-1	0	
	1	25	14.15	14.16	14.12	13.78	13.94		0	
	1	49	14.12	13.94	14.13	13.81	14.18		0	
	25	0	14.09	14.20	14.19	13.85	14.20	0-2	0	
	25	12	14.08	14.09	14.17	13.86	14.20		0	
	25	25	14.12	14.16	14.15	13.94	14.19		0	
	64QAM	50	0	14.06	14.15	14.19	13.89	14.19	0-2	0
		1	0	14.20	14.05	14.09	13.73	14.10		0
1		25	13.90	14.03	14.17	13.94	13.92	0		
1		49	13.99	13.93	14.18	13.94	14.10	0-3	0	
25		0	14.10	14.13	14.17	13.84	14.18		0	
25		12	14.11	14.11	14.15	13.78	14.11		0	
25		25	14.19	14.10	14.13	13.83	14.15		0	
50		0	14.12	14.16	14.14	13.77	14.17		0	

Table 8-280
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	14.11	14.05	14.18	13.80	14.10	0	0
	1	12	14.07	14.14	14.16	13.77	14.04		0
	1	24	14.18	14.17	14.16	13.86	14.07		0
	12	0	13.95	14.07	14.11	13.82	14.08	0-1	0
	12	6	13.95	14.03	14.09	13.81	14.11		0
	12	13	14.04	14.02	14.10	13.82	14.09		0
	25	0	13.97	14.04	14.05	13.83	14.07		0
16QAM	1	0	14.12	14.09	14.14	14.01	14.18	0-1	0
	1	12	14.17	14.04	14.18	13.93	14.18		0
	1	24	14.13	14.01	14.16	13.93	14.13		0
	12	0	14.05	14.12	14.10	13.91	14.20	0-2	0
	12	6	14.10	14.04	14.10	13.85	14.16		0
	12	13	14.18	14.06	14.10	13.87	14.18		0
	25	0	14.11	14.11	14.11	13.88	14.19		0
64QAM	1	0	14.15	14.05	14.16	13.90	14.19	0-2	0
	1	12	14.04	14.10	14.19	13.70	14.17		0
	1	24	14.16	14.06	14.17	13.94	14.11		0
	12	0	13.99	14.06	14.10	13.82	14.17	0-3	0
	12	6	14.06	14.09	14.09	13.81	14.16		0
	12	13	14.12	14.03	14.10	13.83	14.16		0
	25	0	14.03	14.03	14.12	13.77	14.18		0

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Table 8-281
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	14.07	14.12	14.14	13.45	13.75	0	0
	1	50	14.00	14.11	14.07	13.56	13.82		0
	1	99	13.99	14.09	13.96	13.58	13.91		0
	50	0	14.17	14.15	14.16	13.74	13.88	0-1	0
	50	25	14.10	14.10	14.10	13.72	13.91		0
	50	50	14.06	13.97	14.18	13.72	13.87		0
	100	0	14.04	13.96	14.10	13.68	13.75		0
16QAM	1	0	14.12	14.07	13.85	13.44	13.66	0-1	0
	1	50	13.91	14.12	13.80	13.53	13.70		0
	1	99	13.80	13.86	13.75	13.53	13.83		0
	50	0	14.08	13.93	13.90	13.43	13.68	0-2	0
	50	25	14.04	13.83	13.86	13.44	13.71		0
	50	50	13.92	13.99	13.91	13.48	13.61		0
	100	0	13.90	13.90	13.84	13.52	13.54		0
64QAM	1	0	14.17	13.90	14.03	13.40	13.52	0-2	0
	1	50	14.05	13.89	13.81	13.42	13.43		0
	1	99	14.04	13.99	13.74	13.48	13.64		0
	50	0	14.12	14.06	13.97	13.58	13.60	0-3	0
	50	25	14.07	14.00	13.95	13.56	13.60		0
	50	50	14.04	13.86	13.98	13.59	13.67		0
	100	0	14.06	13.84	13.94	13.55	13.56		0

Table 8-282
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	14.15	13.90	14.07	13.82	13.89	0	0
	1	36	14.11	13.95	14.19	13.85	14.00		0
	1	74	14.08	13.89	14.03	13.77	14.09		0
	36	0	14.07	13.85	14.08	13.78	13.87	0-1	0
	36	18	14.03	13.89	14.14	13.76	13.94		0
	36	37	14.03	13.86	14.11	13.77	13.98		0
	75	0	14.01	13.87	14.11	13.74	13.90		0
16QAM	1	0	13.82	13.36	13.56	13.30	13.54	0-1	0
	1	36	13.72	13.54	13.80	13.55	13.51		0
	1	74	13.86	13.47	13.58	13.39	13.73		0
	36	0	13.83	13.60	13.85	13.56	13.62	0-2	0
	36	18	13.80	13.64	13.92	13.55	13.72		0
	36	37	13.83	13.63	13.85	13.54	13.77		0
	75	0	13.79	13.65	13.86	13.52	13.70		0
64QAM	1	0	13.73	13.39	13.65	13.43	13.49	0-2	0
	1	36	13.79	13.62	13.90	13.50	13.62		0
	1	74	13.78	13.50	13.57	13.44	13.76		0
	36	0	13.81	13.61	13.82	13.54	13.62	0-3	0
	36	18	13.79	13.63	13.89	13.54	13.74		0
	36	37	13.80	13.62	13.86	13.55	13.73		0
	75	0	13.75	13.63	13.89	13.49	13.71		0

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Table 8-283
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	14.20	13.90	14.15	13.87	13.93	0	0
	1	25	14.09	13.92	14.16	13.77	13.96		0
	1	49	14.15	13.97	14.20	13.82	14.08		0
	25	0	14.10	13.92	14.10	13.77	13.93	0-1	0
	25	12	14.04	13.86	14.10	13.73	13.93		0
	25	25	14.06	13.87	14.11	13.79	13.99		0
	50	0	14.05	13.91	14.09	13.75	13.93		0
16QAM	1	0	13.70	13.39	13.78	13.36	13.59	0-1	0
	1	25	13.84	13.58	13.77	13.47	13.59		0
	1	49	13.90	13.51	13.96	13.51	13.71		0
	25	0	13.86	13.65	13.85	13.56	13.71	0-2	0
	25	12	13.80	13.61	13.88	13.52	13.72		0
	25	25	13.85	13.64	13.92	13.60	13.76		0
	50	0	13.80	13.65	13.89	13.54	13.71		0
64QAM	1	0	13.96	13.50	13.84	13.59	13.49	0-2	0
	1	25	13.79	13.49	13.75	13.54	13.72		0
	1	49	13.79	13.59	13.84	13.51	13.79		0
	25	0	13.91	13.70	13.86	13.52	13.70	0-3	0
	25	12	13.76	13.60	13.88	13.55	13.70		0
	25	25	13.78	13.61	13.87	13.61	13.74		0
	50	0	13.83	13.67	13.90	13.55	13.74		0

Table 8-284
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	14.08	13.81	14.13	13.88	13.85	0	0
	1	12	14.04	13.86	14.13	13.81	13.91		0
	1	24	14.08	13.87	14.18	13.90	14.04		0
	12	0	13.95	13.81	14.05	13.77	13.82	0-1	0
	12	6	13.98	13.81	14.06	13.76	13.81		0
	12	13	14.01	13.82	14.08	13.75	13.85		0
	25	0	13.99	13.83	14.06	13.77	13.84		0
16QAM	1	0	13.85	13.62	13.65	13.55	13.71	0-1	0
	1	12	13.73	13.49	13.74	13.46	13.57		0
	1	24	13.79	13.49	13.79	13.68	13.82		0
	12	0	13.67	13.57	13.79	13.50	13.66	0-2	0
	12	6	13.74	13.55	13.79	13.48	13.62		0
	12	13	13.76	13.56	13.82	13.46	13.66		0
	25	0	13.75	13.60	13.85	13.56	13.73		0
64QAM	1	0	13.69	13.66	13.85	13.53	13.64	0-2	0
	1	12	13.84	13.61	13.86	13.50	13.54		0
	1	24	13.65	13.45	13.79	13.63	13.75		0
	12	0	13.74	13.66	13.80	13.61	13.63	0-3	0
	12	6	13.76	13.64	13.84	13.60	13.67		0
	12	13	13.83	13.61	13.85	13.57	13.69		0
	25	0	13.73	13.64	13.84	13.58	13.69		0

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Table 8-285
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	14.07	14.10	13.85	13.70	13.60	0	0
	1	50	14.14	13.96	13.91	13.44	13.63		0
	1	99	14.20	13.95	14.00	13.41	13.71		0
	50	0	14.13	14.09	13.95	13.61	13.64	0-1	0
	50	25	14.10	14.01	13.97	13.40	13.57		0
	50	50	14.12	14.01	13.98	13.41	13.60		0
	100	0	14.09	14.01	13.99	13.40	13.59		0
16QAM	1	0	14.07	14.13	13.87	13.74	13.55	0-1	0
	1	50	14.03	14.00	13.80	13.38	13.53		0
	1	99	14.14	14.02	13.94	13.38	13.72		0
	50	0	14.14	14.07	13.91	13.46	13.64	0-2	0
	50	25	14.10	14.03	13.94	13.45	13.60		0
	50	50	14.13	14.01	13.96	13.41	13.62		0
	100	0	14.12	14.02	13.94	13.42	13.63		0
64QAM	1	0	14.12	14.17	13.91	13.70	13.63	0-2	0
	1	50	14.03	13.96	14.04	13.42	13.64		0
	1	99	14.16	13.91	14.03	13.39	13.72		0
	50	0	14.11	14.09	13.94	13.55	13.69	0-3	0
	50	25	14.10	13.97	13.99	13.46	13.62		0
	50	50	14.12	13.92	13.97	13.44	13.63		0
	100	0	14.08	13.98	14.01	13.47	13.64		0

Table 8-286
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	14.16	14.05	13.76	13.86	0	0
	1	36	14.20	14.13	14.15	13.70	13.94		0
	1	74	14.19	13.98	14.16	13.65	13.86		0
	36	0	14.08	14.10	14.05	13.66	13.85	0-1	0
	36	18	14.18	14.08	14.12	13.67	13.86		0
	36	37	14.15	14.00	14.08	13.67	13.84		0
	75	0	14.13	14.05	14.08	13.61	13.81		0
16QAM	1	0	14.12	14.10	13.91	13.77	13.69	0-1	0
	1	36	14.15	13.90	14.05	13.71	13.84		0
	1	74	14.19	13.72	13.99	13.44	13.74		0
	36	0	14.07	14.11	14.09	13.69	13.83	0-2	0
	36	18	14.19	14.11	14.16	13.68	13.88		0
	36	37	14.17	14.05	14.13	13.70	13.84		0
	75	0	14.18	14.06	14.12	13.63	13.83		0
64QAM	1	0	14.12	14.06	13.94	13.65	13.75	0-2	0
	1	36	14.05	14.05	14.09	13.71	13.84		0
	1	74	14.08	13.91	14.01	13.55	13.79		0
	36	0	14.12	14.11	14.11	13.67	13.86	0-3	0
	36	18	14.18	14.08	14.11	13.68	13.84		0
	36	37	14.19	14.02	14.09	13.69	13.85		0
	75	0	14.10	14.06	14.11	13.61	13.85		0

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Table 8-287
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	14.19	14.07	14.09	13.79	13.83	0	0
	1	25	14.20	14.10	14.12	13.70	13.90		0
	1	49	14.19	14.07	14.13	13.75	13.93		0
	25	0	14.17	14.08	14.05	13.67	13.82	0-1	0
	25	12	14.18	14.05	14.08	13.63	13.82		0
	25	25	14.18	14.03	14.06	13.68	13.82		0
16QAM	50	0	14.13	14.05	14.08	13.62	13.84	0	
	1	0	14.17	14.10	13.98	13.73	13.66	0-1	0
	1	25	14.09	14.06	14.16	13.40	13.78		0
	1	49	14.15	13.86	13.96	13.66	13.75		0
	25	0	14.19	14.06	14.08	13.66	13.84	0-2	0
	25	12	14.16	14.10	14.10	13.66	13.83		0
25	25	14.20	14.04	14.09	13.71	13.82	0		
64QAM	50	0	14.14	14.08	14.12	13.65	13.84	0-2	0
	1	0	14.05	13.96	14.09	13.66	13.81		0
	1	25	14.11	13.96	13.94	13.53	13.70		0
	1	49	14.03	14.04	14.03	13.73	13.71	0-3	0
	25	0	14.15	14.09	14.08	13.68	13.83		0
	25	12	14.17	14.08	14.13	13.63	13.84		0
	25	25	14.20	14.04	14.13	13.75	13.84	0	
	50	0	14.18	14.09	14.14	13.65	13.87	0	

Table 8-288
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	14.19	14.02	14.10	13.70	13.76	0	0
	1	12	14.19	14.10	14.11	13.67	13.84		0
	1	24	14.19	14.07	14.10	13.73	13.86		0
	12	0	14.16	14.01	13.97	13.62	13.81	0-1	0
	12	6	14.15	14.01	14.04	13.62	13.80		0
	12	13	14.17	13.98	14.05	13.60	13.78		0
	25	0	14.18	14.02	14.03	13.61	13.80		0
16QAM	1	0	14.18	14.05	13.96	13.62	13.81	0-1	0
	1	12	14.13	14.00	14.01	13.57	13.84		0
	1	24	14.20	14.04	14.03	13.75	13.73		0
	12	0	14.15	14.01	14.03	13.65	13.83	0-2	0
	12	6	14.15	14.03	14.05	13.62	13.80		0
	12	13	14.20	14.02	14.02	13.61	13.82		0
	25	0	14.19	14.05	14.06	13.64	13.83		0
64QAM	1	0	14.19	13.98	14.00	13.72	13.76	0-2	0
	1	12	14.20	14.01	14.10	13.74	13.76		0
	1	24	14.03	13.91	14.20	13.78	13.81		0
	12	0	14.17	14.03	14.02	13.63	13.80	0-3	0
	12	6	14.17	14.05	14.11	13.69	13.85		0
	12	13	14.18	14.03	14.07	13.62	13.82		0
	25	0	14.16	14.01	14.05	13.64	13.79		0

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Table 8-289
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	15.77	15.68	15.87	15.17	15.53	0	0
	1	50	15.58	15.64	15.76	15.24	15.49		0
	1	99	15.60	15.61	15.72	15.32	15.54		0
	50	0	15.69	15.73	15.77	15.26	15.60	0-1	0
	50	25	15.58	15.70	15.83	15.28	15.50		0
	50	50	15.55	15.62	15.76	15.29	15.52		0
	100	0	15.54	15.65	15.70	15.25	15.48		0
16QAM	1	0	15.90	15.71	15.90	15.28	15.59	0-1	0
	1	50	15.80	15.63	15.88	15.34	15.52		0
	1	99	15.70	15.64	15.86	15.40	15.60		0
	50	0	15.72	15.70	15.73	15.45	15.61	0-2	0
	50	25	15.61	15.61	15.75	15.43	15.49		0
	50	50	15.57	15.60	15.81	15.48	15.57		0
	100	0	15.60	15.64	15.75	15.41	15.50		0
64QAM	1	0	15.82	15.70	15.84	15.30	15.74	0-2	0
	1	50	15.70	15.65	15.77	15.46	15.50		0
	1	99	15.60	15.60	15.71	15.57	15.63		0
	50	0	15.68	15.70	15.72	15.44	15.60	0-3	0
	50	25	15.61	15.71	15.80	15.43	15.52		0
	50	50	15.57	15.63	15.80	15.48	15.59		0
	100	0	15.58	15.55	15.80	15.42	15.53		0

Table 8-290
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	15.75	15.58	15.79	15.60	15.74	0	0
	1	36	15.73	15.76	15.83	15.69	15.83		0
	1	74	15.70	15.70	15.71	15.70	15.83		0
	36	0	15.69	15.59	15.76	15.67	15.69	0-1	0
	36	18	15.67	15.71	15.79	15.71	15.78		0
	36	37	15.60	15.67	15.76	15.60	15.77		0
	75	0	15.63	15.67	15.75	15.69	15.79		0
16QAM	1	0	15.58	15.54	15.67	15.50	15.57	0-1	0
	1	36	15.57	15.61	15.74	15.66	15.66		0
	1	74	15.55	15.43	15.52	15.55	15.71		0
	36	0	15.64	15.61	15.74	15.69	15.70	0-2	0
	36	18	15.65	15.71	15.79	15.74	15.78		0
	36	37	15.62	15.65	15.73	15.62	15.77		0
	75	0	15.62	15.71	15.77	15.70	15.76		0
64QAM	1	0	15.52	15.49	15.64	15.65	15.75	0-2	0
	1	36	15.59	15.70	15.81	15.68	15.76		0
	1	74	15.67	15.63	15.65	15.69	15.79		0
	36	0	15.66	15.62	15.77	15.69	15.70	0-3	0
	36	18	15.62	15.68	15.79	15.75	15.76		0
	36	37	15.61	15.66	15.74	15.62	15.76		0
	75	0	15.60	15.69	15.76	15.70	15.78		0

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Table 8-291
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	15.75	15.70	15.81	15.65	15.76	0	0
	1	25	15.66	15.71	15.80	15.67	15.77		0
	1	49	15.78	15.72	15.80	15.71	15.90		0
	25	0	15.71	15.70	15.74	15.69	15.74	0-1	0
	25	12	15.64	15.67	15.74	15.67	15.73		0
	25	25	15.62	15.67	15.74	15.61	15.74		0
	50	0	15.64	15.68	15.77	15.70	15.76		0
16QAM	1	0	15.63	15.50	15.65	15.57	15.62	0-1	0
	1	25	15.59	15.61	15.60	15.53	15.58		0
	1	49	15.75	15.69	15.62	15.52	15.57		0
	25	0	15.73	15.75	15.79	15.66	15.76	0-2	0
	25	12	15.65	15.70	15.78	15.69	15.72		0
	25	25	15.65	15.66	15.75	15.61	15.75		0
	50	0	15.63	15.70	15.77	15.71	15.77		0
64QAM	1	0	15.57	15.46	15.62	15.54	15.58	0-2	0
	1	25	15.66	15.44	15.85	15.60	15.61		0
	1	49	15.57	15.57	15.69	15.54	15.63		0
	25	0	15.73	15.69	15.78	15.67	15.72	0-3	0
	25	12	15.61	15.65	15.74	15.66	15.73		0
	25	25	15.62	15.64	15.74	15.59	15.75		0
	50	0	15.67	15.70	15.81	15.67	15.73		0

Table 8-292
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	15.72	15.67	15.81	15.62	15.72	0	0
	1	12	15.65	15.72	15.76	15.71	15.80		0
	1	24	15.67	15.73	15.78	15.66	15.82		0
	12	0	15.56	15.68	15.73	15.64	15.69	0-1	0
	12	6	15.56	15.67	15.69	15.62	15.72		0
	12	13	15.60	15.68	15.69	15.65	15.73		0
	25	0	15.57	15.70	15.71	15.65	15.74		0
16QAM	1	0	15.57	15.61	15.66	15.69	15.76	0-1	0
	1	12	15.43	15.62	15.66	15.69	15.59		0
	1	24	15.59	15.57	15.78	15.60	15.72		0
	12	0	15.58	15.64	15.69	15.64	15.68	0-2	0
	12	6	15.53	15.59	15.71	15.67	15.70		0
	12	13	15.58	15.66	15.73	15.65	15.70		0
	25	0	15.60	15.62	15.73	15.63	15.76		0
64QAM	1	0	15.82	15.63	15.73	15.70	15.74	0-2	0
	1	12	15.72	15.45	15.72	15.80	15.63		0
	1	24	15.74	15.64	15.79	15.74	15.68		0
	12	0	15.66	15.64	15.72	15.74	15.73	0-3	0
	12	6	15.70	15.66	15.71	15.73	15.74		0
	12	13	15.68	15.61	15.72	15.75	15.69		0
	25	0	15.65	15.63	15.73	15.74	15.73		0

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LTE Band 41 PC2

Table 8-293

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	14.05	14.05	13.62	13.84	0	0
	1	50	14.15	14.10	13.97	13.70	13.76		0
	1	99	14.16	14.04	13.87	13.71	13.72		0
	50	0	14.20	14.12	14.05	13.72	13.84	0-1	0
	50	25	14.17	14.10	14.03	13.77	13.78		0
	50	50	14.18	14.08	13.96	13.81	13.74		0
	100	0	14.08	14.08	13.99	13.77	13.77		0
16QAM	1	0	14.12	14.04	14.04	13.74	13.90	0-1	0
	1	50	14.11	14.10	14.05	13.78	13.72		0
	1	99	14.18	14.00	13.92	13.80	13.74		0
	50	0	14.20	14.12	14.06	13.77	13.80	0-2	0
	50	25	14.14	14.12	14.02	13.76	13.78		0
	50	50	14.19	14.09	13.95	13.82	13.75		0
	100	0	14.10	14.07	13.98	13.77	13.74		0
64QAM	1	0	14.00	14.12	14.10	13.67	13.89	0-2	0
	1	50	14.12	14.08	14.00	13.82	13.71		0
	1	99	14.15	13.99	14.07	13.70	13.78		0
	50	0	14.19	14.08	14.05	13.72	13.80	0-3	0
	50	25	14.15	14.10	14.03	13.79	13.75		0
	50	50	14.18	14.08	13.92	13.82	13.74		0
	100	0	14.08	14.07	13.99	13.80	13.74		0

Table 8-294

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	14.20	13.92	14.03	13.61	14.03	0	0
	1	36	14.06	14.01	14.09	13.72	14.11		0
	1	74	14.02	13.93	13.93	13.69	14.04		0
	36	0	13.97	13.90	13.96	13.64	13.93	0-1	0
	36	18	13.96	13.95	14.00	13.66	14.03		0
	36	37	13.99	13.92	13.95	13.68	13.99		0
	75	0	13.87	13.93	13.97	13.63	14.00		0
16QAM	1	0	14.20	14.03	14.10	13.99	14.08	0-1	0
	1	36	14.09	14.08	14.09	13.94	14.02		0
	1	74	14.03	13.98	13.99	14.03	14.09		0
	36	0	13.96	13.76	13.83	13.48	13.75	0-2	0
	36	18	13.91	13.80	13.87	13.49	13.84		0
	36	37	13.92	13.75	13.85	13.56	13.82		0
	75	0	13.79	13.79	13.84	13.47	13.82		0
64QAM	1	0	14.18	13.92	14.09	13.82	14.03	0-2	0
	1	36	14.11	13.95	14.03	13.93	14.01		0
	1	74	14.02	13.91	14.07	13.87	14.01		0
	36	0	13.92	13.74	13.79	13.49	13.78	0-3	0
	36	18	13.88	13.81	13.87	13.50	13.84		0
	36	37	13.90	13.74	13.83	13.53	13.80		0
	75	0	13.76	13.79	13.83	13.46	13.80		0

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Table 8-295
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	14.12	14.15	14.18	13.89	14.20	0	0
	1	25	14.10	14.15	14.17	13.88	14.19		0
	1	49	14.20	14.17	14.20	13.94	14.16		0
	25	0	14.06	14.19	14.17	13.82	14.19	0-1	0
	25	12	14.05	14.12	14.17	13.81	14.19		0
	25	25	14.16	14.11	14.17	13.88	14.17		0
	50	0	14.08	14.15	14.19	13.82	14.20		0
16QAM	1	0	14.19	14.11	14.08	14.11	14.15	0-1	0
	1	25	14.03	14.03	14.05	14.08	14.12		0
	1	49	14.11	13.99	14.03	14.12	14.11		0
	25	0	13.78	13.83	13.91	13.53	13.89	0-2	0
	25	12	13.77	13.80	13.80	13.58	13.84		0
	25	25	13.91	13.75	13.86	13.58	13.84		0
	50	0	13.81	13.85	13.90	13.53	13.89		0
64QAM	1	0	14.13	14.11	13.95	13.90	14.01	0-2	0
	1	25	14.12	14.08	14.04	14.04	13.98		0
	1	49	14.16	14.09	13.98	14.02	14.01		0
	25	0	13.84	13.88	13.89	13.55	13.90	0-3	0
	25	12	13.80	13.84	13.91	13.54	13.89		0
	25	25	13.90	13.80	13.88	13.60	13.87		0
	50	0	13.84	13.83	13.90	13.56	13.90		0

Table 8-296
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	14.08	14.06	14.16	13.83	14.17	0	0
	1	12	14.06	14.06	14.14	13.78	14.17		0
	1	24	14.15	14.08	14.14	13.83	14.19		0
	12	0	14.00	14.10	14.13	13.84	14.17	0-1	0
	12	6	14.02	14.04	14.10	13.84	14.15		0
	12	13	14.10	14.07	14.13	13.83	14.14		0
	25	0	14.02	14.09	14.11	13.85	14.16		0
16QAM	1	0	14.15	13.89	14.20	14.04	13.88	0-1	0
	1	12	14.20	14.10	14.15	14.07	14.17		0
	1	24	14.04	14.00	14.12	14.16	14.02		0
	12	0	13.85	13.93	13.95	13.64	13.89	0-2	0
	12	6	13.82	13.85	13.89	13.59	13.90		0
	12	13	13.92	13.87	13.89	13.68	13.90		0
	25	0	13.86	13.92	13.86	13.59	13.91		0
64QAM	1	0	14.09	13.82	14.08	14.10	13.87	0-2	0
	1	12	14.14	14.12	14.02	14.10	14.12		0
	1	24	14.02	14.19	14.10	14.13	14.10		0
	12	0	13.75	13.92	13.96	13.67	13.89	0-3	0
	12	6	13.77	13.85	13.97	13.58	13.93		0
	12	13	13.87	13.85	13.86	13.59	13.87		0
	25	0	13.78	13.86	13.84	13.63	13.83		0

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Table 8-297
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	13.97	13.99	14.19	13.91	13.87	0	0
	1	50	13.92	13.94	14.05	13.81	13.87		0
	1	99	14.08	13.92	13.97	13.78	14.02		0
	50	0	13.87	13.84	14.02	13.85	13.82	0-1	0
	50	25	13.91	13.85	14.01	13.75	13.79		0
	50	50	13.87	13.90	14.00	13.73	13.85		0
	100	0	13.87	13.88	13.94	13.78	13.78		0
16QAM	1	0	13.93	13.83	14.19	13.79	13.87	0-1	0
	1	50	13.94	13.87	14.05	13.74	13.91		0
	1	99	14.06	13.92	13.94	13.60	13.98		0
	50	0	13.64	13.61	13.78	13.58	13.53	0-2	0
	50	25	13.73	13.62	13.76	13.52	13.59		0
	50	50	13.82	13.64	13.77	13.49	13.68		0
	100	0	13.66	13.69	13.75	13.43	13.58		0
64QAM	1	0	13.97	14.00	14.11	13.93	13.82	0-2	0
	1	50	14.00	13.85	14.15	13.74	13.93		0
	1	99	14.18	13.68	13.95	13.88	14.14		0
	50	0	13.69	13.62	13.79	13.57	13.51	0-3	0
	50	25	13.67	13.64	13.80	13.52	13.59		0
	50	50	13.76	13.67	13.77	13.51	13.64		0
	100	0	13.67	13.64	13.77	13.49	13.58	0	

Table 8-298
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	14.20	13.97	14.18	13.83	13.95	0	0
	1	36	14.19	14.02	14.20	13.92	14.09		0
	1	74	14.16	13.95	14.14	13.83	14.14		0
	36	0	14.08	13.89	14.13	13.82	13.90	0-1	0
	36	18	14.08	13.95	14.20	13.81	13.98		0
	36	37	14.04	13.93	14.18	13.83	14.05		0
	75	0	14.03	13.94	14.15	13.78	13.96		0
16QAM	1	0	14.17	13.80	13.93	13.73	13.80	0-1	0
	1	36	14.03	13.97	13.87	13.82	13.77		0
	1	74	14.07	13.80	14.03	13.84	13.88		0
	36	0	13.54	13.34	13.54	13.25	13.37	0-2	0
	36	18	13.51	13.39	13.60	13.25	13.41		0
	36	37	13.52	13.33	13.60	13.27	13.50		0
	75	0	13.51	13.33	13.56	13.23	13.41		0
64QAM	1	0	14.02	13.68	13.87	13.54	13.74	0-2	0
	1	36	13.95	13.70	14.04	13.61	13.77		0
	1	74	13.95	13.67	13.73	13.49	13.86		0
	36	0	13.51	13.33	13.57	13.28	13.32	0-3	0
	36	18	13.51	13.37	13.61	13.26	13.41		0
	36	37	13.48	13.34	13.58	13.22	13.44		0
	75	0	13.52	13.35	13.61	13.22	13.36		0

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Table 8-299
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	14.20	13.93	14.18	13.92	13.95	0	0
	1	25	14.10	13.90	14.18	13.85	14.00		0
	1	49	14.15	13.94	14.19	13.92	14.11		0
	25	0	14.10	13.97	14.09	13.83	13.95	0-1	0
	25	12	14.06	13.92	14.11	13.78	13.94		0
	25	25	14.10	13.90	14.14	13.85	14.03		0
16QAM	50	0	14.09	13.95	14.14	13.80	13.96	0	
	1	0	14.19	13.81	13.91	13.97	13.92	0-1	0
	1	25	14.09	13.61	14.14	13.79	13.72		0
	1	49	14.05	13.86	14.01	13.89	13.88		0
	25	0	13.59	13.46	13.57	13.26	13.43	0-2	0
	25	12	13.51	13.35	13.60	13.30	13.42		0
25	25	13.58	13.36	13.62	13.32	13.51	0		
64QAM	50	0	13.53	13.38	13.59	13.25	13.43	0	
	1	0	13.91	13.57	13.86	13.60	13.61	0-2	0
	1	25	13.86	13.63	14.04	13.65	13.60		0
	1	49	13.98	13.76	14.03	13.51	14.00		0
	25	0	13.54	13.39	13.58	13.28	13.44	0-3	0
	25	12	13.52	13.36	13.59	13.27	13.40		0
25	25	13.52	13.37	13.64	13.29	13.45	0		
	50	0	13.52	13.42	13.59	13.24	13.42		0

Table 8-300
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	14.07	13.87	14.11	13.85	13.84	0	0
	1	12	14.00	13.87	14.09	13.82	13.88		0
	1	24	14.05	13.92	14.14	13.90	13.96		0
	12	0	13.98	13.89	14.06	13.77	13.83	0-1	0
	12	6	13.96	13.87	14.05	13.76	13.85		0
	12	13	14.00	13.86	14.08	13.75	13.86		0
	25	0	14.01	13.91	14.05	13.78	13.83		0
16QAM	1	0	14.14	13.34	14.03	13.77	13.37	0-1	0
	1	12	14.19	13.69	14.05	13.62	13.77		0
	1	24	14.13	13.76	14.02	13.73	13.91		0
	12	0	13.53	13.33	13.56	13.30	13.41	0-2	0
	12	6	13.52	13.36	13.60	13.30	13.41		0
	12	13	13.61	13.31	13.60	13.27	13.43		0
	25	0	13.51	13.38	13.58	13.30	13.37		0
64QAM	1	0	13.94	13.38	14.11	13.78	13.44	0-2	0
	1	12	14.01	13.69	14.10	13.75	13.78		0
	1	24	13.90	13.77	14.09	13.72	13.71		0
	12	0	13.55	13.31	13.60	13.34	13.41	0-3	0
	12	6	13.52	13.36	13.63	13.27	13.42		0
	12	13	13.53	13.37	13.62	13.24	13.42		0
	25	0	13.51	13.40	13.57	13.29	13.43		0

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Table 8-301
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	13.95	14.10	13.60	13.53	13.42	0	0
	1	50	14.02	14.05	13.71	13.47	13.55		0
	1	99	14.06	13.89	13.73	13.36	13.52		0
	50	0	13.99	13.96	13.65	13.40	13.48	0-1	0
	50	25	13.99	13.84	13.75	13.50	13.60		0
	50	50	14.05	13.91	13.75	13.43	13.55		0
	100	0	13.92	13.86	13.76	13.49	13.55		0
16QAM	1	0	14.20	14.20	13.80	13.93	13.70	0-1	0
	1	50	14.18	14.15	13.95	13.77	13.75		0
	1	99	14.15	13.95	13.94	13.56	13.80		0
	50	0	13.81	13.70	13.46	13.30	13.30	0-2	0
	50	25	13.78	13.65	13.52	13.25	13.36		0
	50	50	13.85	13.55	13.50	13.20	13.36		0
	100	0	13.76	13.58	13.50	13.27	13.33		0
64QAM	1	0	14.10	14.07	14.05	13.80	13.70	0-2	0
	1	50	14.03	14.06	14.05	13.64	13.63		0
	1	99	14.11	13.86	13.92	13.50	13.68		0
	50	0	13.55	13.50	13.51	13.20	13.26	0-3	0
	50	25	13.56	13.40	13.41	13.20	13.26		0
	50	50	13.55	13.35	13.35	13.20	13.24		0
	100	0	13.52	13.38	13.40	13.21	13.22		0

Table 8-302
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	14.05	13.96	13.65	13.73	0	0
	1	36	14.15	14.04	14.06	13.62	13.81		0
	1	74	14.06	13.86	14.06	13.55	13.73		0
	36	0	13.92	13.98	13.88	13.52	13.70	0-1	0
	36	18	14.04	13.93	13.97	13.51	13.70		0
	36	37	14.03	13.90	13.92	13.55	13.67		0
	75	0	13.99	13.93	13.92	13.49	13.66		0
16QAM	1	0	14.08	13.83	13.73	13.46	13.69	0-1	0
	1	36	14.13	13.98	14.03	13.51	13.78		0
	1	74	14.04	13.64	13.76	13.42	13.70		0
	36	0	13.43	13.50	13.43	13.23	13.22	0-2	0
	36	18	13.53	13.44	13.52	13.25	13.25		0
	36	37	13.53	13.36	13.46	13.27	13.22		0
	75	0	13.50	13.38	13.42	13.20	13.29		0
64QAM	1	0	13.90	13.93	13.85	13.64	13.54	0-2	0
	1	36	13.91	13.99	13.89	13.48	13.57		0
	1	74	13.82	13.69	13.93	13.37	13.56		0
	36	0	13.48	13.56	13.44	13.30	13.25	0-3	0
	36	18	13.54	13.47	13.53	13.26	13.27		0
	36	37	13.52	13.42	13.49	13.26	13.23		0
	75	0	13.47	13.49	13.47	13.24	13.24		0

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Table 8-303
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	14.16	13.94	14.00	13.73	13.73	0	0
	1	25	14.11	14.02	14.04	13.59	13.80		0
	1	49	14.04	13.99	14.03	13.64	13.82		0
	25	0	14.00	13.91	13.92	13.60	13.69	0-1	0
	25	12	14.00	13.91	13.97	13.55	13.69		0
	25	25	14.03	13.87	13.97	13.55	13.70		0
	50	0	14.00	13.96	14.01	13.53	13.72		0
16QAM	1	0	13.90	14.17	14.08	13.74	13.58	0-1	0
	1	25	13.98	14.11	14.10	13.53	13.66		0
	1	49	14.05	13.94	14.03	13.60	13.58		0
	25	0	13.61	13.50	13.46	13.32	13.25	0-2	0
	25	12	13.56	13.50	13.52	13.27	13.25		0
	25	25	13.54	13.41	13.50	13.32	13.23		0
	50	0	13.56	13.44	13.55	13.25	13.25		0
64QAM	1	0	13.88	13.95	13.76	13.32	13.55	0-2	0
	1	25	13.83	13.92	13.72	13.32	13.51		0
	1	49	13.93	13.81	13.77	13.33	13.55		0
	25	0	13.56	13.48	13.48	13.31	13.27	0-3	0
	25	12	13.53	13.47	13.49	13.27	13.25		0
	25	25	13.56	13.47	13.49	13.32	13.27		0
	50	0	13.56	13.50	13.49	13.30	13.26		0

Table 8-304
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	14.00	13.87	13.95	13.60	13.66	0	0
	1	12	13.97	13.90	14.00	13.55	13.71		0
	1	24	13.97	13.88	14.01	13.59	13.71		0
	12	0	13.97	13.89	13.86	13.55	13.70	0-1	0
	12	6	13.99	13.87	13.95	13.55	13.67		0
	12	13	13.99	13.87	13.96	13.54	13.68		0
	25	0	14.02	13.90	13.96	13.56	13.70		0
16QAM	1	0	14.02	13.42	14.03	13.48	13.60	0-1	0
	1	12	13.97	13.91	14.01	13.45	13.71		0
	1	24	14.03	13.78	14.10	13.40	13.65		0
	12	0	13.51	13.47	13.53	13.25	13.26	0-2	0
	12	6	13.58	13.43	13.57	13.29	13.26		0
	12	13	13.63	13.38	13.60	13.26	13.26		0
	25	0	13.57	13.46	13.57	13.29	13.21		0
64QAM	1	0	13.96	13.44	14.00	13.43	13.37	0-2	0
	1	12	13.97	13.84	14.04	13.45	13.72		0
	1	24	13.95	13.81	13.94	13.31	13.81		0
	12	0	13.52	13.46	13.50	13.23	13.28	0-3	0
	12	6	13.56	13.43	13.52	13.26	13.37		0
	12	13	13.60	13.47	13.55	13.24	13.39		0
	25	0	13.58	13.43	13.53	13.25	13.25		0

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Table 8-305
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	15.88	15.57	15.65	15.45	15.61	0	0
	1	50	15.73	15.53	15.67	15.51	15.56		0
	1	99	15.72	15.51	15.62	15.62	15.65		0
	50	0	15.65	15.63	15.65	15.37	15.46	0-1	0
	50	25	15.55	15.60	15.72	15.37	15.40		0
	50	50	15.51	15.56	15.73	15.38	15.45		0
	100	0	15.54	15.55	15.68	15.34	15.35		0
16QAM	1	0	15.71	15.44	15.66	15.20	15.55	0-1	0
	1	50	15.60	15.48	15.64	15.15	15.47		0
	1	99	15.46	15.54	15.65	15.25	15.50		0
	50	0	15.08	15.07	15.04	14.90	14.98	0-2	0
	50	25	15.03	15.00	15.07	14.91	14.90		0
	50	50	15.00	15.00	15.10	14.90	14.92		0
	100	0	15.00	15.00	15.08	14.94	14.90		0
64QAM	1	0	15.75	15.50	15.90	15.20	15.33	0-2	0
	1	50	15.62	15.53	15.69	15.12	15.27		0
	1	99	15.43	15.53	15.65	15.23	15.30		0
	50	0	15.08	14.98	15.01	14.92	14.97	0-3	0
	50	25	15.05	14.97	15.08	14.91	14.92		0
	50	50	15.00	14.94	15.08	14.90	14.93		0
	100	0	14.99	14.97	15.08	14.90	14.90		0

Table 8-306
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	15.75	15.65	15.79	15.73	15.77	0	0
	1	36	15.74	15.82	15.85	15.78	15.83		0
	1	74	15.70	15.73	15.71	15.69	15.87		0
	36	0	15.66	15.58	15.75	15.67	15.67	0-1	0
	36	18	15.63	15.69	15.78	15.70	15.78		0
	36	37	15.60	15.67	15.72	15.61	15.76		0
	75	0	15.61	15.68	15.77	15.67	15.77		0
16QAM	1	0	15.85	15.55	15.76	15.68	15.61	0-1	0
	1	36	15.78	15.76	15.66	15.59	15.76		0
	1	74	15.61	15.63	15.53	15.71	15.59		0
	36	0	15.14	15.10	15.28	15.20	15.25	0-2	0
	36	18	15.15	15.20	15.30	15.19	15.25		0
	36	37	15.13	15.13	15.28	15.12	15.25		0
	75	0	15.11	15.16	15.27	15.20	15.24		0
64QAM	1	0	15.42	15.46	15.58	15.58	15.58	0-2	0
	1	36	15.51	15.57	15.74	15.58	15.59		0
	1	74	15.44	15.39	15.42	15.57	15.52		0
	36	0	15.11	15.10	15.25	15.18	15.20	0-3	0
	36	18	15.13	15.19	15.29	15.23	15.26		0
	36	37	15.09	15.12	15.28	15.10	15.23		0
	75	0	15.08	15.10	15.30	15.21	15.22		0

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Table 8-307
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	15.75	15.66	15.84	15.74	15.75	0	0
	1	25	15.67	15.71	15.80	15.72	15.79		0
	1	49	15.80	15.72	15.82	15.68	15.90		0
	25	0	15.69	15.67	15.74	15.66	15.74	0-1	0
	25	12	15.61	15.66	15.71	15.67	15.72		0
	25	25	15.62	15.66	15.73	15.58	15.74		0
16QAM	50	0	15.63	15.66	15.74	15.69	15.74	0-1	0
	1	0	15.64	15.59	15.59	15.66	15.80		0
	1	25	15.62	15.66	15.52	15.62	15.76		0
	1	49	15.73	15.66	15.57	15.62	15.89	0-2	0
	25	0	15.20	15.13	15.30	15.22	15.24		0
	25	12	15.17	15.14	15.27	15.23	15.27		0
64QAM	25	25	15.18	15.18	15.27	15.13	15.24	0-2	0
	50	0	15.15	15.15	15.28	15.18	15.24		0
	1	0	15.73	15.35	15.77	15.45	15.65		0-2
	1	25	15.58	15.47	15.56	15.63	15.47	0	
	1	49	15.55	15.32	15.46	15.58	15.79	0-3	
	25	0	15.18	15.15	15.29	15.23	15.25		0
	25	12	15.13	15.17	15.30	15.21	15.22		0
	25	25	15.09	15.13	15.27	15.10	15.24		0
	50	0	15.16	15.20	15.31	15.19	15.21		0

Table 8-308
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	15.68	15.67	15.73	15.73	15.70	0	0
	1	12	15.59	15.67	15.69	15.71	15.66		0
	1	24	15.61	15.66	15.73	15.67	15.68		0
	12	0	15.54	15.67	15.72	15.64	15.70	0-1	0
	12	6	15.53	15.67	15.68	15.66	15.67		0
	12	13	15.52	15.67	15.67	15.68	15.69		0
	25	0	15.57	15.66	15.67	15.70	15.69		0
16QAM	1	0	15.62	15.16	15.75	15.61	15.28	0-1	0
	1	12	15.51	15.51	15.88	15.61	15.67		0
	1	24	15.68	15.59	15.68	15.71	15.74		0
	12	0	15.15	15.19	15.29	15.29	15.27	0-2	0
	12	6	15.10	15.14	15.25	15.30	15.20		0
	12	13	15.16	15.13	15.29	15.25	15.26		0
	25	0	15.13	15.18	15.25	15.19	15.28		0
64QAM	1	0	15.58	15.23	15.76	15.73	15.24	0-2	0
	1	12	15.45	15.58	15.66	15.59	15.56		0
	1	24	15.68	15.74	15.80	15.74	15.72		0
	12	0	15.17	15.24	15.28	15.27	15.34	0-3	0
	12	6	15.22	15.24	15.30	15.29	15.32		0
	12	13	15.19	15.18	15.28	15.24	15.34		0
	25	0	15.15	15.28	15.27	15.25	15.34		0

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LTE Band 48

Table 8-309
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	14.94	14.77	14.96	14.47	0	0
	1	50	14.75	14.67	14.71	14.30		0
	1	99	14.88	14.87	14.72	14.38		0
	50	0	14.74	14.73	14.75	14.36	0-1	0
	50	25	14.73	14.69	14.62	14.31		0
	50	50	14.72	14.71	14.59	14.33		0
	100	0	14.72	14.73	14.72	14.36		0
16QAM	1	0	14.82	14.53	14.97	14.35	0-1	0
	1	50	14.72	14.47	14.54	14.39		0
	1	99	14.67	14.63	14.60	14.47		0
	50	0	14.53	14.33	14.57	14.30	0-2	0
	50	25	14.44	14.43	14.49	14.32		0
	50	50	14.42	14.30	14.41	14.35		0
	100	0	14.52	14.32	14.54	14.30		0
64QAM	1	0	14.89	14.32	14.82	14.62	0-2	0
	1	50	14.78	14.37	14.51	14.50		0
	1	99	14.82	14.39	14.42	14.53		0
	50	0	14.52	14.30	14.52	14.40	0-3	0
	50	25	14.89	14.32	14.51	14.39		0
	50	50	14.84	14.37	14.41	14.42		0
	100	0	14.98	14.33	14.53	14.52		0

Table 8-310
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	14.95	14.87	14.99	14.34	0	0
	1	36	15.05	14.78	14.90	14.50		0
	1	74	14.94	14.92	14.72	14.43		0
	36	0	14.99	14.90	14.93	14.34	0-1	0
	36	18	15.02	14.86	14.89	14.39		0
	36	37	14.92	14.87	14.83	14.34		0
	75	0	15.02	14.88	14.86	14.41		0
16QAM	1	0	15.22	14.93	15.14	14.66	0-1	0
	1	36	15.13	14.86	14.97	14.58		0
	1	74	15.12	15.02	14.97	14.58		0
	36	0	14.87	14.79	14.83	14.30	0-2	0
	36	18	14.90	14.76	14.81	14.31		0
	36	37	14.85	14.70	14.73	14.30		0
	75	0	14.98	14.74	14.81	14.33		0
64QAM	1	0	14.89	14.76	14.87	14.47	0-2	0
	1	36	14.79	14.53	14.47	14.39		0
	1	74	14.61	14.81	14.46	14.35		0
	36	0	14.39	14.75	14.79	14.30	0-3	0
	36	18	14.41	14.72	14.71	14.31		0
	36	37	14.32	14.69	14.69	14.31		0
	75	0	14.48	14.76	14.80	14.34		0

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Table 8-311
LTE Band 48 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55290 (3555.0 MHz)	55757 (3601.7 MHz)	56223 (3648.3 MHz)	56690 (3695.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	15.26	15.13	15.16	14.71	0	0
	1	25	14.95	14.96	14.96	14.47		0
	1	49	15.29	15.16	15.05	14.79		0
	25	0	15.13	15.09	15.11	14.70	0-1	0
	25	12	15.17	15.03	15.06	14.63		0
	25	25	15.14	15.10	15.02	14.68		0
16QAM	50	0	15.18	15.15	15.17	14.73	0-1	0
	1	0	15.24	14.94	15.10	14.54		0
	1	25	14.86	14.70	14.85	14.38		0
	1	49	15.07	15.10	14.87	14.58	0-2	0
	25	0	14.81	14.70	14.74	14.30		0
	25	12	14.78	14.65	14.70	14.33		0
64QAM	25	25	14.85	14.75	14.78	14.32	0-2	0
	50	0	14.94	14.74	14.81	14.46		0
	1	0	14.89	14.57	14.57	14.41	0-2	0
	1	25	14.71	14.52	14.68	14.34		0
	1	49	14.79	14.78	14.84	14.47		0
	25	0	14.37	14.67	14.72	14.30	0-3	0
	25	12	14.30	14.64	14.64	14.30		0
	25	25	14.34	14.72	14.74	14.32		0
	50	0	14.44	14.73	14.88	14.38		0

Table 8-312
LTE Band 48 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55265 (3552.5 MHz)	55748 (3600.8 MHz)	56232 (3649.2 MHz)	56715 (3697.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	15.30	15.08	15.11	14.62	0	0
	1	12	15.08	14.96	15.04	14.55		0
	1	24	15.29	15.27	15.12	14.85		0
	12	0	15.14	14.96	14.99	14.56	0-1	0
	12	6	15.05	14.90	14.90	14.46		0
	12	13	15.15	15.02	14.98	14.58		0
	25	0	15.19	15.08	15.11	14.66		0
16QAM	1	0	14.79	14.93	14.95	14.54	0-1	0
	1	12	14.67	14.57	14.90	14.34		0
	1	24	14.63	14.58	14.88	14.34		0
	12	0	14.65	14.48	14.52	14.33	0-2	0
	12	6	14.58	14.44	14.47	14.34		0
	12	13	14.68	14.53	14.55	14.41		0
	25	0	14.80	14.73	14.67	14.38		0
64QAM	1	0	15.21	14.67	15.09	14.36	0-2	0
	1	12	15.04	14.81	14.78	14.31		0
	1	24	14.66	14.83	14.66	14.53		0
	12	0	14.32	14.32	14.37	14.30	0-3	0
	12	6	14.30	14.30	14.33	14.31		0
	12	13	14.41	14.38	14.38	14.32		0
	25	0	14.36	14.67	14.68	14.30		0

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Table 8-313
LTE Band 48 Conducted Powers Ant 3 - 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	16.14	16.08	16.25	16.26	0	0
	1	50	16.04	16.06	16.10	16.01		0
	1	99	16.15	16.20	16.33	16.17		0
	50	0	16.10	16.08	16.21	16.14	0-1	0
	50	25	15.95	16.14	16.12	16.03		0
	50	50	15.99	16.15	16.16	16.03		0
	100	0	16.04	16.18	16.20	16.10		0
16QAM	1	0	16.21	16.32	16.45	16.35	0-1	0
	1	50	16.13	16.12	16.28	16.17		0
	1	99	16.31	16.31	16.38	16.25		0
	50	0	15.92	16.02	16.10	16.12	0-2	0
	50	25	15.93	16.09	16.11	16.02		0
	50	50	15.94	16.13	16.12	16.00		0
	100	0	16.03	16.19	16.21	16.12		0
64QAM	1	0	16.21	16.36	16.48	16.25	0-2	0
	1	50	16.02	16.20	16.28	16.06		0
	1	99	16.21	16.48	16.50	16.27		0
	50	0	15.93	16.06	16.11	16.13	0-3	0
	50	25	15.93	16.10	16.08	16.02		0
	50	50	15.94	16.15	16.10	16.03		0
	100	0	16.05	16.24	16.16	16.15		0

Table 8-314
LTE Band 48 Conducted Powers Ant 3 - 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	15.83	15.79	16.21	15.98	0	0
	1	36	15.78	15.79	16.11	15.90		0
	1	74	15.87	15.90	16.06	15.93		0
	36	0	15.82	15.85	16.02	15.91	0-1	0
	36	18	15.81	15.95	16.02	15.91		0
	36	37	15.79	15.96	16.00	15.89		0
	75	0	15.90	16.00	16.11	15.97		0
16QAM	1	0	15.86	15.79	16.30	16.13	0-1	0
	1	36	15.86	15.80	16.33	16.01		0
	1	74	15.87	16.25	16.29	16.08		0
	36	0	15.79	15.84	15.95	15.84	0-2	0
	36	18	15.79	15.92	15.96	15.84		0
	36	37	15.82	15.93	15.95	15.84		0
	75	0	15.88	16.00	16.08	15.95		0
64QAM	1	0	15.99	15.79	16.43	15.99	0-2	0
	1	36	15.85	15.83	16.17	15.90		0
	1	74	16.05	15.98	16.25	16.13		0
	36	0	15.80	15.82	15.98	15.84	0-3	0
	36	18	15.81	15.95	15.96	15.85		0
	36	37	15.78	15.93	15.96	15.79		0
	75	0	15.90	15.99	16.06	15.92		0

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Table 8-315
LTE Band 48 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55290 (3555.0 MHz)	55757 (3601.7 MHz)	56223 (3648.3 MHz)	56690 (3695.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	16.17	16.00	16.14	16.26	0	0
	1	25	15.85	15.97	15.89	16.01		0
	1	49	16.12	16.15	16.08	16.25		0
	25	0	15.87	16.01	16.07	16.00	0-1	0
	25	12	15.78	15.95	16.04	15.93		0
	25	25	15.85	16.03	16.09	15.99		0
	50	0	15.93	16.06	16.15	16.02		0
16QAM	1	0	16.05	16.27	16.33	16.04	0-1	0
	1	25	15.81	16.06	16.06	15.79		0
	1	49	15.90	16.48	16.22	15.99		0
	25	0	15.79	15.88	15.92	15.87	0-2	0
	25	12	15.82	15.84	15.86	15.79		0
	25	25	15.79	15.91	15.94	15.81		0
	50	0	15.88	16.03	16.10	15.99		0
64QAM	1	0	15.86	16.33	16.20	15.97	0-2	0
	1	25	15.79	16.29	15.92	15.78		0
	1	49	15.81	16.46	16.30	16.05		0
	25	0	15.84	15.93	15.98	15.86	0-3	0
	25	12	15.79	15.89	15.92	15.82		0
	25	25	15.78	15.98	15.97	15.87		0
	50	0	15.89	16.03	16.09	15.98		0

Table 8-316
LTE Band 48 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55265 (3552.5 MHz)	55748 (3600.8 MHz)	56232 (3649.2 MHz)	56715 (3697.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	15.94	16.03	16.37	16.20	0	0
	1	12	15.86	15.85	16.13	15.97		0
	1	24	16.01	16.11	16.36	16.18		0
	12	0	15.87	16.04	16.07	16.02	0-1	0
	12	6	15.78	15.95	16.03	15.92		0
	12	13	15.85	16.04	16.08	15.98		0
	25	0	15.96	16.09	16.19	16.10		0
16QAM	1	0	16.27	15.82	16.23	16.34	0-1	0
	1	12	15.98	15.79	16.04	16.01		0
	1	24	15.78	16.27	16.24	16.05		0
	12	0	15.96	15.78	15.90	15.85	0-2	0
	12	6	15.78	15.79	15.81	15.88		0
	12	13	15.86	15.79	15.96	16.00		0
	25	0	15.90	15.96	16.16	15.98		0
64QAM	1	0	15.79	16.01	16.37	16.12	0-2	0
	1	12	15.81	15.78	16.12	15.79		0
	1	24	15.83	15.79	16.14	15.89		0
	12	0	15.81	15.78	15.89	15.81	0-3	0
	12	6	15.79	15.79	15.88	15.95		0
	12	13	15.89	15.80	15.84	15.79		0
	25	0	15.96	15.97	16.09	16.04		0

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Table 8-317
LTE Band 48 Conducted Powers Ant 2b - 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	15.10	15.09	15.29	15.08	0	0
	1	50	15.08	14.99	15.20	15.11		0
	1	99	15.07	15.15	15.28	15.17		0
	50	0	15.06	15.04	15.18	15.13	0-1	0
	50	25	15.11	15.01	15.17	15.16		0
	50	50	15.07	15.06	15.14	15.17		0
	100	0	15.17	15.10	15.17	15.17		0
16QAM	1	0	14.97	14.95	15.19	15.18	0-1	0
	1	50	14.91	14.88	15.01	15.02		0
	1	99	14.96	15.01	15.05	15.03		0
	50	0	14.77	14.79	14.90	14.87	0-2	0
	50	25	14.82	14.72	14.88	14.92		0
	50	50	14.77	14.74	14.81	14.93		0
	100	0	14.90	14.82	14.92	14.99		0
64QAM	1	0	14.82	14.86	15.02	15.04	0-2	0
	1	50	14.92	14.83	14.88	15.13		0
	1	99	14.87	14.85	15.03	15.11		0
	50	0	14.73	14.75	14.87	14.89	0-3	0
	50	25	14.75	14.72	14.87	14.85		0
	50	50	14.80	14.77	14.89	14.91		0
	100	0	14.85	14.81	14.95	14.99		0

Table 8-318
LTE Band 48 Conducted Powers Ant 2b - 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	14.72	14.86	14.92	14.93	0	0
	1	36	14.93	14.83	14.91	15.16		0
	1	74	14.82	14.98	14.84	14.94		0
	36	0	14.76	14.89	14.88	15.07	0-1	0
	36	18	14.87	14.92	14.90	15.11		0
	36	37	14.86	14.94	14.89	15.05		0
	75	0	14.88	14.98	14.91	15.14		0
16QAM	1	0	14.95	14.99	15.07	15.13	0-1	0
	1	36	14.91	14.89	14.94	15.30		0
	1	74	15.03	15.17	15.08	15.16		0
	36	0	14.72	14.78	14.81	15.03	0-2	0
	36	18	14.77	14.81	14.84	15.03		0
	36	37	14.79	14.86	14.84	14.99		0
	75	0	14.83	14.91	14.86	15.09		0
64QAM	1	0	14.96	14.88	15.06	15.16	0-2	0
	1	36	14.85	15.11	14.91	15.21		0
	1	74	14.96	14.96	14.98	14.76		0
	36	0	14.92	15.01	14.96	15.15	0-3	0
	36	18	14.95	15.04	14.98	15.23		0
	36	37	14.96	15.06	15.00	15.13		0
	75	0	15.06	15.09	15.05	15.27		0

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Table 8-319
LTE Band 48 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55290 (3555.0 MHz)	55757 (3601.7 MHz)	56223 (3648.3 MHz)	56690 (3695.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	14.78	14.93	15.02	15.16	0	0
	1	25	14.63	14.76	14.72	14.83		0
	1	49	15.09	14.98	14.93	15.06		0
	25	0	14.83	14.88	14.89	15.11	0-1	0
	25	12	14.82	14.83	14.85	15.03		0
	25	25	14.90	14.93	14.92	15.00		0
	50	0	14.94	14.97	14.93	15.10		0
16QAM	1	0	14.78	14.86	15.17	15.28	0-1	0
	1	25	14.91	14.78	14.73	14.89		0
	1	49	15.20	15.24	15.26	15.25		0
	25	0	14.71	14.77	14.76	14.98	0-2	0
	25	12	14.71	14.75	14.75	14.91		0
	25	25	14.79	14.83	14.79	14.88		0
	50	0	14.89	14.92	14.84	15.01		0
64QAM	1	0	15.05	15.15	14.98	15.30	0-2	0
	1	25	14.84	14.89	14.80	15.02		0
	1	49	15.15	14.92	15.24	15.16		0
	25	0	14.98	14.97	15.01	15.28	0-3	0
	25	12	14.94	14.99	14.92	15.15		0
	25	25	15.02	15.10	15.07	15.13		0
	50	0	15.09	15.17	15.12	15.29		0

Table 8-320
LTE Band 48 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55265 (3552.5 MHz)	55748 (3600.8 MHz)	56232 (3649.2 MHz)	56715 (3697.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	14.89	15.07	15.05	15.21	0	0
	1	12	14.66	14.81	14.75	14.90		0
	1	24	14.95	15.06	15.06	15.08		0
	12	0	14.60	14.77	14.75	14.86	0-1	0
	12	6	14.63	14.72	14.73	14.80		0
	12	13	14.64	14.78	14.86	14.81		0
	25	0	14.75	14.90	14.85	14.98		0
16QAM	1	0	14.80	14.65	14.86	14.94	0-1	0
	1	12	14.63	14.58	14.71	14.68		0
	1	24	14.59	14.83	14.74	14.79		0
	12	0	14.62	14.56	14.59	14.68	0-2	0
	12	6	14.60	14.55	14.57	14.61		0
	12	13	14.62	14.63	14.60	14.56		0
	25	0	14.65	14.71	14.76	14.86		0
64QAM	1	0	15.12	15.05	15.04	15.20	0-2	0
	1	12	14.58	14.60	15.11	14.59		0
	1	24	14.62	15.05	14.85	15.26		0
	12	0	14.57	14.63	14.64	14.81	0-3	0
	12	6	14.63	14.63	14.58	14.71		0
	12	13	14.56	14.71	14.63	14.75		0
	25	0	14.94	15.03	15.11	15.19		0

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Table 8-321
LTE Band 48 Conducted Powers Ant 4b - 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	15.84	15.75	15.89	15.64	0	0
	1	50	15.96	15.57	15.68	15.38		0
	1	99	15.90	15.83	15.85	15.67		0
	50	0	15.83	15.61	15.74	15.43	0-1	0
	50	25	15.85	15.60	15.68	15.38		0
	50	50	15.78	15.66	15.75	15.45		0
	100	0	15.84	15.70	15.78	15.47		0
16QAM	1	0	16.22	15.96	16.17	16.01	0-1	0
	1	50	16.29	16.02	16.09	15.74		0
	1	99	16.27	16.18	16.20	16.01		0
	50	0	16.08	15.90	15.98	15.68	0-2	0
	50	25	16.13	15.89	15.97	15.65		0
	50	50	16.00	15.94	16.00	15.71		0
	100	0	16.20	15.97	16.06	15.74		0
64QAM	1	0	16.30	16.20	16.30	16.00	0-2	0
	1	50	16.26	15.97	16.11	15.74		0
	1	99	16.20	16.30	16.25	16.00		0
	50	0	16.05	15.82	15.98	15.66	0-3	0
	50	25	16.11	15.83	15.95	15.64		0
	50	50	15.99	15.88	16.00	15.71		0
	100	0	16.22	15.94	16.07	15.75		0

Table 8-322
LTE Band 48 Conducted Powers Ant 4b - 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	15.75	15.59	15.91	15.68	0	0
	1	36	15.93	15.55	15.95	15.65		0
	1	74	15.90	15.61	15.90	15.71		0
	36	0	15.80	15.64	15.81	15.68	0-1	0
	36	18	15.94	15.66	15.82	15.69		0
	36	37	15.94	15.68	15.82	15.64		0
	75	0	16.01	15.74	15.87	15.76		0
16QAM	1	0	15.84	16.07	16.03	15.77	0-1	0
	1	36	16.14	16.24	16.15	15.89		0
	1	74	15.94	16.23	16.19	15.68		0
	36	0	16.02	15.85	16.01	15.83	0-2	0
	36	18	16.20	15.85	16.04	15.92		0
	36	37	16.16	15.89	16.01	15.85		0
	75	0	16.27	15.96	16.10	15.98		0
64QAM	1	0	16.09	15.93	15.91	15.94	0-2	0
	1	36	16.30	16.02	16.16	16.03		0
	1	74	15.97	16.00	16.05	15.96		0
	36	0	16.00	15.84	16.00	15.83	0-3	0
	36	18	16.10	15.85	16.02	15.85		0
	36	37	16.15	15.88	16.01	15.81		0
	75	0	16.24	15.94	16.12	15.93		0

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Table 8-323
LTE Band 48 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55290 (3555.0 MHz)	55757 (3601.7 MHz)	56223 (3648.3 MHz)	56690 (3695.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	15.99	15.78	15.92	16.05	0	0
	1	25	15.87	15.64	15.67	15.80		0
	1	49	16.27	15.86	15.96	16.03		0
	25	0	15.85	15.71	15.89	15.90	0-1	0
	25	12	15.84	15.66	15.82	15.81		0
	25	25	15.98	15.75	15.91	15.87		0
	50	0	15.97	15.78	15.94	15.92		0
16QAM	1	0	16.10	15.98	16.20	16.01	0-1	0
	1	25	16.01	15.80	16.10	15.92		0
	1	49	16.30	16.05	16.26	15.96		0
	25	0	15.98	15.90	16.01	15.84	0-2	0
	25	12	15.98	15.86	15.93	15.79		0
	25	25	16.09	15.93	15.97	15.79		0
	50	0	16.20	15.98	16.07	15.95		0
64QAM	1	0	16.05	16.12	16.11	15.95	0-2	0
	1	25	15.90	15.93	16.07	15.70		0
	1	49	16.28	16.21	16.23	15.91		0
	25	0	16.05	15.88	16.06	15.94	0-3	0
	25	12	15.96	15.84	15.94	15.84		0
	25	25	16.19	15.87	16.03	15.84		0
	50	0	16.19	15.96	16.14	15.97		0

Table 8-324
LTE Band 48 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55265 (3552.5 MHz)	55748 (3600.8 MHz)	56232 (3649.2 MHz)	56715 (3697.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	15.68	15.71	15.87	15.72	0	0
	1	12	15.53	15.62	15.80	15.39		0
	1	24	15.83	15.89	15.96	15.53		0
	12	0	15.70	15.61	15.79	15.64	0-1	0
	12	6	15.68	15.55	15.71	15.55		0
	12	13	15.76	15.60	15.79	15.60		0
	25	0	15.83	15.71	15.89	15.73		0
16QAM	1	0	16.05	16.15	16.12	15.62	0-1	0
	1	12	15.31	15.86	15.89	15.50		0
	1	24	16.17	16.00	15.94	15.97		0
	12	0	15.55	15.63	16.00	15.69	0-2	0
	12	6	15.68	15.60	15.90	15.55		0
	12	13	15.64	15.61	15.93	15.50		0
	25	0	15.96	15.81	16.03	15.82		0
64QAM	1	0	15.91	16.24	15.65	16.10	0-2	0
	1	12	15.70	15.94	15.42	15.78		0
	1	24	16.02	16.00	16.15	16.04		0
	12	0	15.82	15.44	15.92	15.72	0-3	0
	12	6	15.84	15.39	15.84	15.73		0
	12	13	15.92	15.53	15.90	15.69		0
	25	0	15.96	15.84	16.03	15.83		0

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8.3.14 LTE Intra-Band Uplink Carrier Aggregation Conducted Powers

Table 8-325
LTE Intra-Band Uplink Carrier Aggregation Conducted Powers – Antenna 1

Combination	PCC									SCC									Power	
	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	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	20.45	20.50

Table 8-326
LTE Intra-Band Uplink Carrier Aggregation Conducted Powers – Antenna 3

Combination	PCC									SCC									Power	
	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	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	20.00	19.88

Table 8-327
LTE Intra-Band 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	21350	2560.0	3350	2680.0	QPSK	50	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	11.30	11.73
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	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	13.25		13.71			
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	1	0	LTE B41 PC2	20	40857	2616.7	QPSK	1	99	13.14		13.62			

Table 8-328
LTE Intra-Band 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	11.59	11.77
	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	1	99	LTE B41	20	41253	2656.3	QPSK	1	0	13.08	13.58				
	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	1	99	LTE B41 PC2	20	41253	2656.3	QPSK	1	0	13.44	13.78				

Table 8-329
LTE Intra-Band 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	11.95	11.86
	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	13.16	13.61				

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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	13.18	13.40

Table 8-330
LTE Intra-Band 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	50	50	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	50	0	13.12	13.05
	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	15.39	15.77	
	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	15.38	15.65				

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 Intra-Band 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 8-331
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	11.50	11.46	11.47
2437	6	11.51	11.59	11.53
2462	11	11.72	11.78	11.64

Table 8-332
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	11.51	11.52	11.49
2437	6	11.69	11.65	11.72
2462	11	11.50	11.52	11.49

Table 8-333
5 GHz WLAN Average RF Power – 5GHz ANTlower

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ac
		Average	Average
5190	38	12.50	12.44
5230	46	15.06	15.09
5270	54	15.50	15.47
5310	62	12.60	12.64

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5530	106	10.56
5610	122	15.52
5690	138	15.50
5775	155	14.61

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Table 8-334
5 GHz WLAN Average RF Power – 5GHz ANTupper

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ac
		Average	Average
5190	38	12.57	12.50
5230	46	15.00	15.01
5270	54	15.25	15.32
5310	62	12.50	12.57

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5530	106	10.52
5610	122	14.13
5690	138	14.12
5775	155	14.53

8.4.2 Variant 2

Table 8-335
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	11.35	11.31	11.38
2437	6	11.32	11.26	11.31
2462	11	11.37	11.37	11.41

Table 8-336
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	11.58	11.54	11.60
2437	6	11.64	11.59	11.62
2462	11	11.50	11.58	11.52

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Table 8-337
5 GHz WLAN Average RF Power – 5GHz ANTlower

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ac
		Average	Average
5190	38	12.65	12.71
5230	46	15.04	14.97
5270	54	15.58	15.48
5310	62	12.53	12.50

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5530	106	10.51
5610	122	15.56
5690	138	15.52
5775	155	14.57

Table 8-338
5 GHz WLAN Average RF Power – 5GHz ANTupper

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ac
		Average	Average
5190	38	12.54	12.62
5230	46	15.03	15.10
5270	54	15.27	15.19
5310	62	12.55	12.52

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5530	106	10.61
5610	122	14.16
5690	138	14.01
5775	155	14.53

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8.5 WLAN Reduced Conducted Powers

8.5.1

Variant 1

Table 8-339
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	5.38	5.41	5.45
2437	6	5.46	5.32	5.31
2462	11	5.50	5.28	5.25

Table 8-340
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	5.35	5.35	5.29
2437	6	5.31	5.30	5.27
2462	11	5.46	5.45	5.40

Table 8-341
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	11.77	11.83	5530	106	11.42
5230	46	11.92	11.80	5610	122	12.35
5270	54	12.44	12.39	5690	138	12.40
5310	62	12.50	12.44	5775	155	11.37

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Table 8-342
5 GHz WLAN Average RF Power – 5GHz ANTupper

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	11.00
5290	58	11.14
5530	106	9.84
5610	122	9.98
5690	138	9.95
5775	155	10.42

8.5.2 Variant 2

Table 8-343
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	5.42	5.37	5.48
2437	6	5.39	5.34	5.44
2462	11	5.20	5.20	5.27

Table 8-344
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	5.39	5.28	5.21
2437	6	5.46	5.44	5.37
2462	11	5.49	5.41	5.45

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Table 8-345
5 GHz WLAN Average RF Power – 5GHz ANTlower

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ac
		Average	Average
5190	38	11.93	11.90
5230	46	11.88	11.85
5270	54	12.50	12.44
5310	62	12.42	12.32

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5530	106	11.50
5610	122	12.31
5690	138	12.40
5775	155	11.50

Table 8-346
5 GHz WLAN Average RF Power – 5GHz ANTupper

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	11.00
5290	58	11.07
5530	106	9.92
5610	122	10.00
5690	138	9.99
5775	155	10.30

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8.5.3

WLAN Power Reduction Verification Summary

Table 8-347
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)	11.71	4.5	PASS
		Interband ULCA ON	13	6	11.50 (± 1.5)	4.50 (± 1.5)	11.71	4.41	PASS
		Main Band 4a/4b ON	13	6	11.50 (± 1.5)	4.50 (± 1.5)	11.8	5.1	PASS
		Interband ULCA ON	13	6	11.50 (± 1.5)	4.50 (± 1.5)	11.75	5.2	PASS
5GHz ANTlower	5 GHz WLAN	Main Band 2a ON	16.5	12.5	15.00 (± 1.5)	11.00 (± 1.5)	14.87	10.38	PASS
		Interband ULCA ON	16.5	12.5	15.00 (± 1.5)	11.00 (± 1.5)	14.87	10.5	PASS
5GHz ANTupper		Main Band 3 ON	16.25	11.25	14.75 (± 1.5)	9.75 (± 1.5)	15.13	8.95	PASS
		Interband ULCA ON	16.25	11.25	14.75 (± 1.5)	9.75 (± 1.5)	13.25	8.5	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 the highest report SAR value was selected for remaining test configurations.

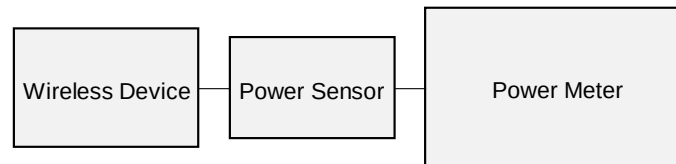


Figure 8-4
Power Measurement Setup

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8.6 Bluetooth Maximum Conducted Powers

8.6.1 Variant 1

Table 8-348
Bluetooth Average RF power – Ant 2A

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.80	23.988
2441	GFSK	1.0	39	13.78	23.878
2480	GFSK	1.0	78	13.55	22.646

Table 8-349
Bluetooth Average RF power – Ant 4A

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.30	21.380
2441	GFSK	1.0	39	13.46	22.182
2480	GFSK	1.0	78	13.22	20.989

8.6.2 Variant 2

Table 8-350
Bluetooth Average RF power – Ant 2A

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.56	22.699
2441	GFSK	1.0	39	13.72	23.550
2480	GFSK	1.0	78	13.53	22.542

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Table 8-351
Bluetooth Average RF power – Ant 4A

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.93	19.634
2441	GFSK	1.0	39	13.48	22.284
2480	GFSK	1.0	78	12.27	16.866

8.7 Bluetooth Reduced Conducted Powers

8.7.1 Variant 1

Table 8-352

Reduced Power Level 1 Bluetooth Average RF power – Ant 2A

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	10.68	11.695
2441	GFSK	1.0	39	10.69	11.722
2480	GFSK	1.0	78	10.55	11.350

Table 8-353

Reduced Power Level 2 Bluetooth Average RF power – Ant 2A

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.50	4.467
2441	GFSK	1.0	39	6.83	4.819
2480	GFSK	1.0	78	6.77	4.753

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Table 8-354
Reduced Bluetooth Average RF power – Ant 4A

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.34	4.305
2441	GFSK	1.0	39	6.70	4.677
2480	GFSK	1.0	78	7.00	5.012

8.7.2 Variant 2

Table 8-355
Reduced Power Level 1 Bluetooth Average RF power – Ant 2A

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	10.94	12.417
2441	GFSK	1.0	39	10.85	12.162
2480	GFSK	1.0	78	10.76	11.912

Table 8-356
Reduced Power Level 2 Bluetooth Average RF power – Ant 2A

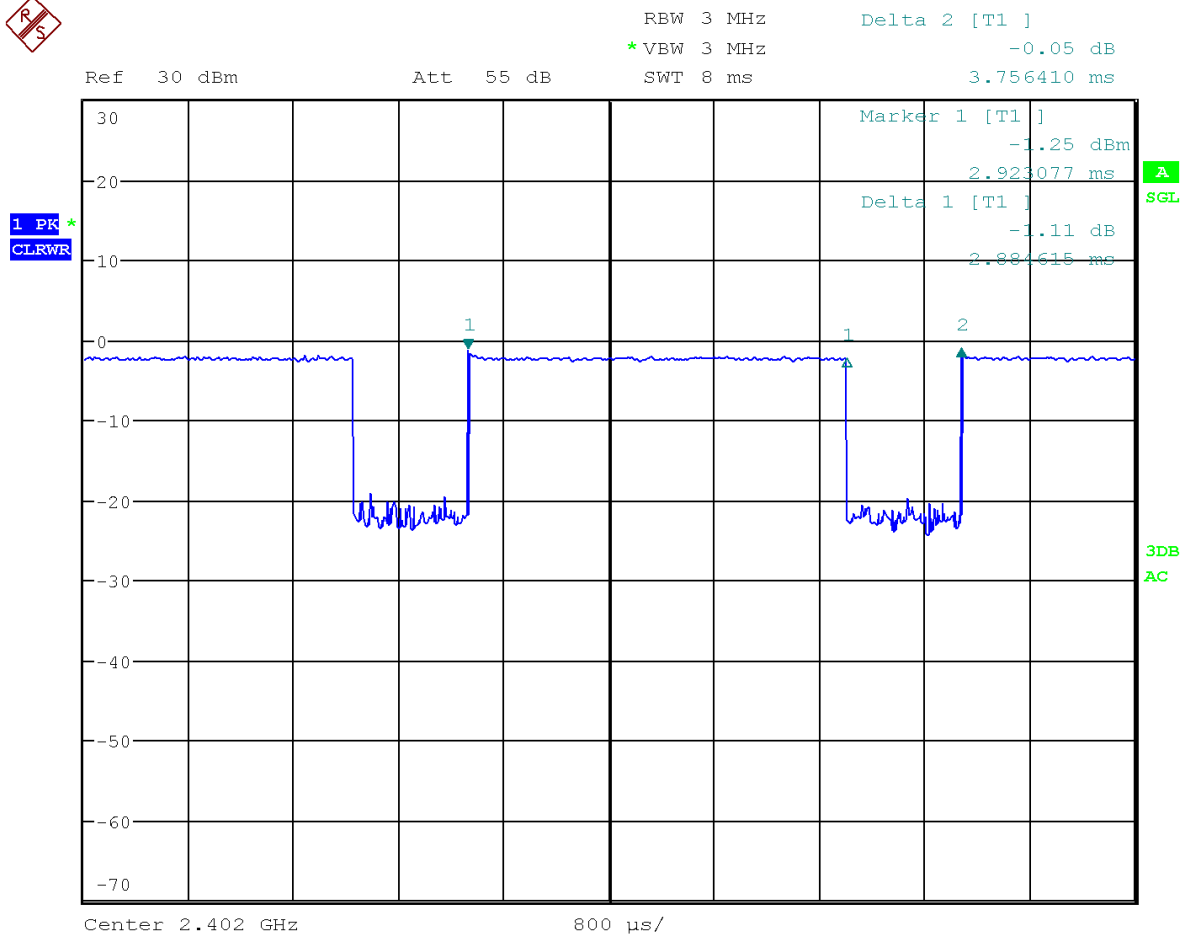
Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.60	4.571
2441	GFSK	1.0	39	6.97	4.977
2480	GFSK	1.0	78	6.58	4.550

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Table 8-357
Reduced Bluetooth Average RF power – Ant 4A

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.29	4.256
2441	GFSK	1.0	39	6.54	4.508
2480	GFSK	1.0	78	6.97	4.977

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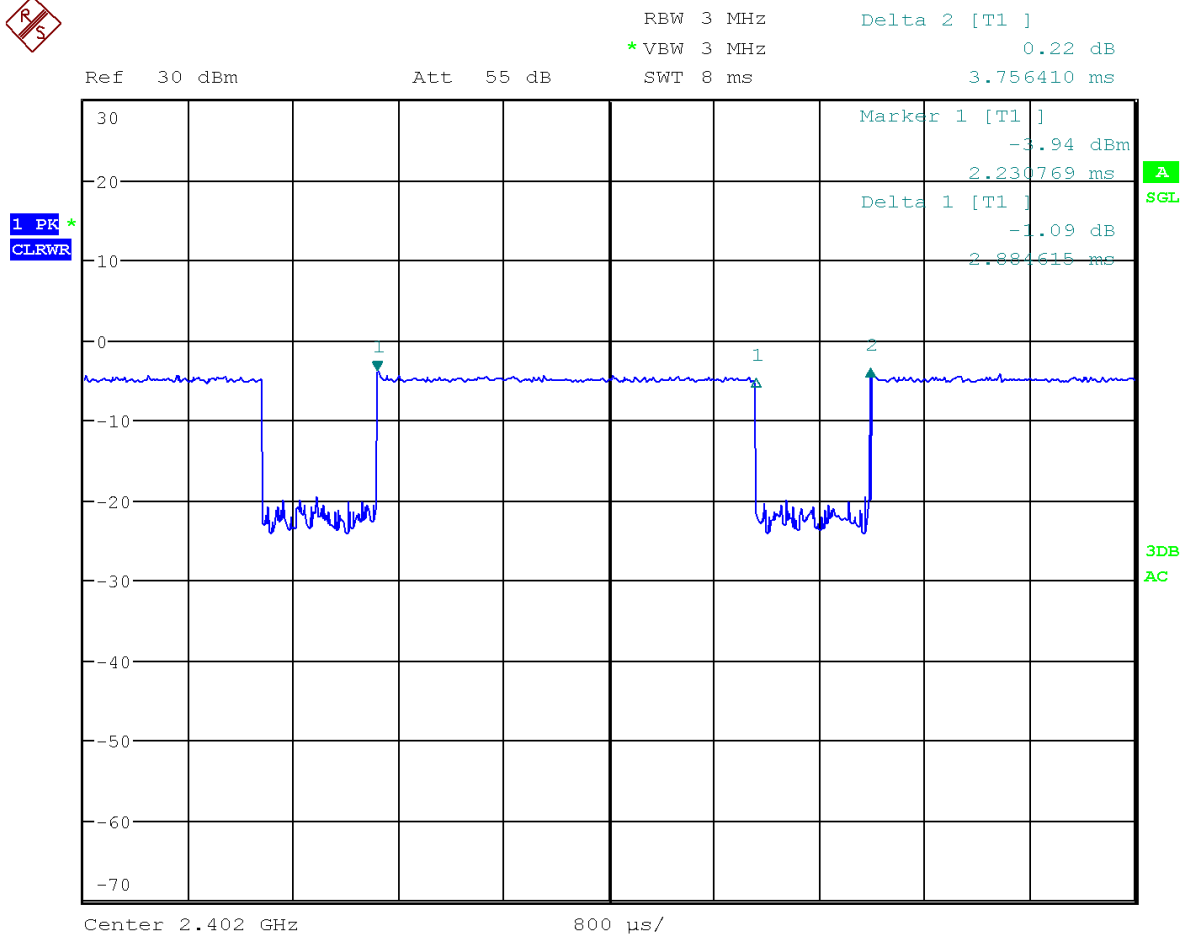
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Figure 8-5
Bluetooth Transmission Plot – Antenna 4a – Variant 1

Equation 8-1
Bluetooth Duty Cycle Calculation – Antenna 4a – Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8846\text{ms}}{3.7564\text{ms}} * 100\% = 76.8\%$$

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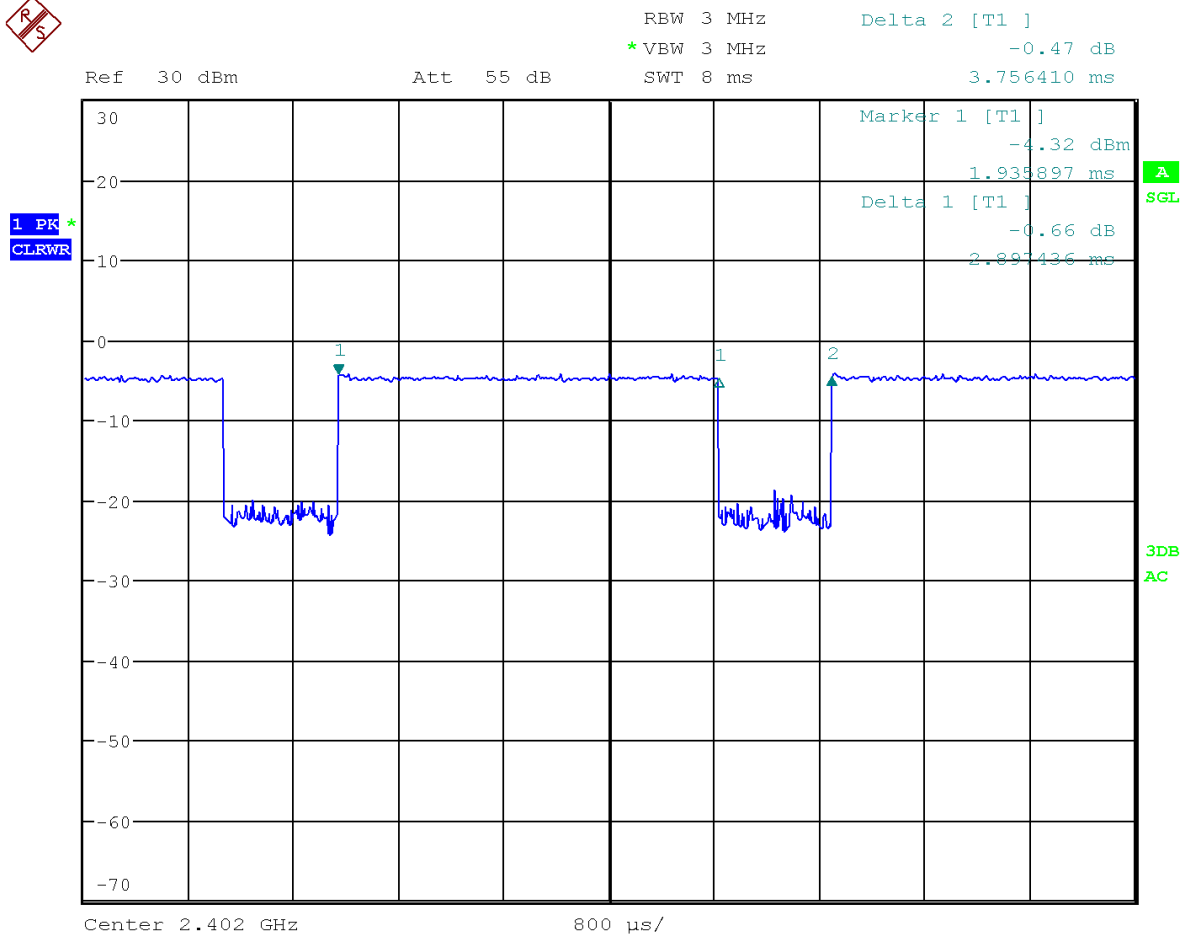
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Figure 8-6
Bluetooth Transmission Plot – Antenna 2a – Variant 1

Equation 8-2
Bluetooth Duty Cycle Calculation – Antenna 2a – Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8846\text{ms}}{3.7564\text{ms}} * 100\% = 76.8\%$$

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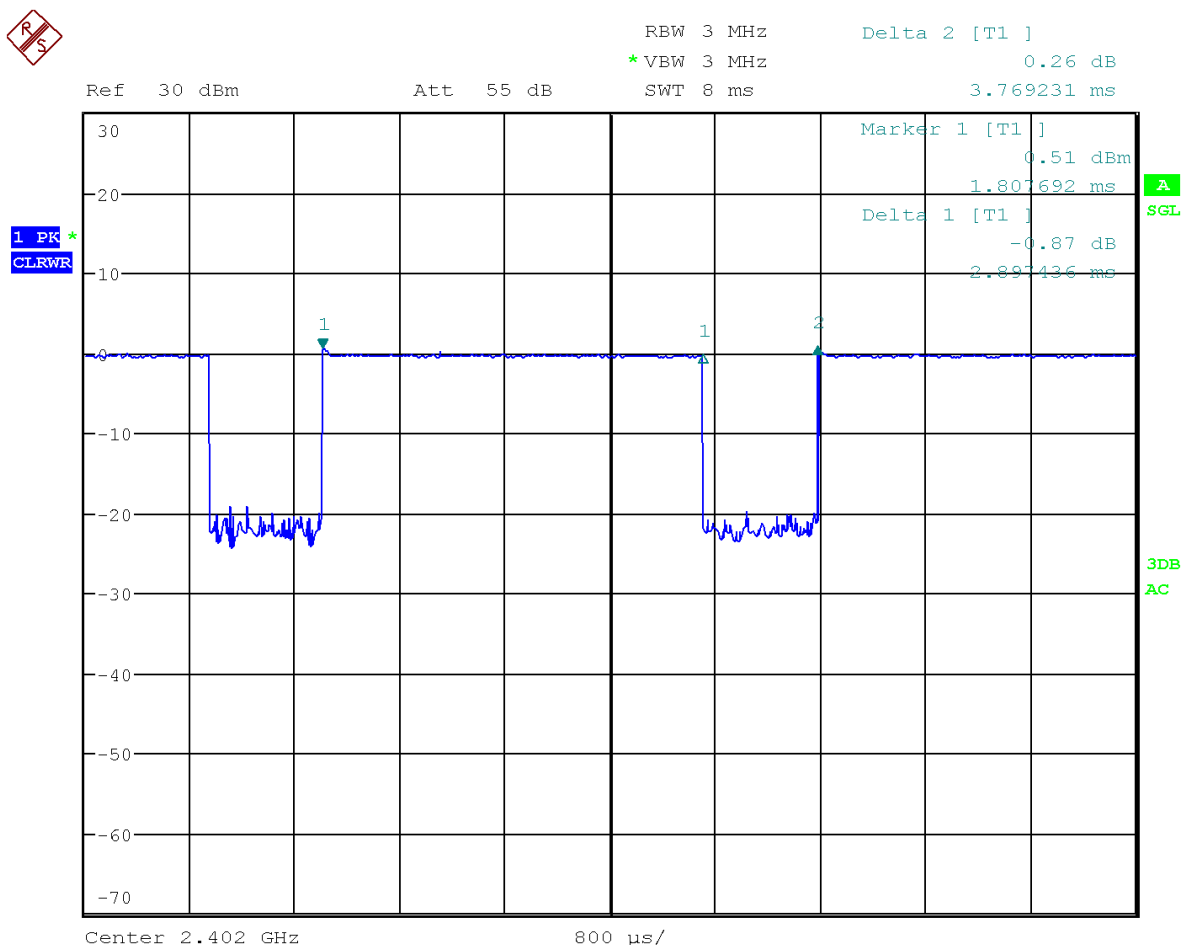
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Figure 8-7
Bluetooth Transmission Plot – Antenna 4a – Variant 2

Equation 8-3
Bluetooth Duty Cycle Calculation – Antenna 4a – Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8974\text{ms}}{3.7564\text{ms}} * 100\% = 77.1\%$$

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Date: 6.JAN.2020 13:19:47

Figure 8-8
Bluetooth Transmission Plot – Antenna 2a – Variant 2

Equation 8-4
Bluetooth Duty Cycle Calculation – Antenna 2a – Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8974\text{ms}}{3.7692\text{ms}} * 100\% = 76.9\%$$

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8.7.3 Bluetooth Power Reduction Verification Summary

Table 8-358
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)	13.7	4.91	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	13.7	4.91	PASS
ANT2a	2.4 GHz Bluetooth	5 GHz WLAN ON	14	11	12.50 (+1.5/-2)	9.50 (+1.5/-2)	13.2	8.7	PASS
	2.4 GHz Bluetooth	Main Band ANT1/2a/2b ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	13.27	4.9	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)	13.27	4.98	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	13.27	4.36	PASS
	2.4 GHz Bluetooth	5 GHz WLAN ON, Interband ULCA ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	13.27	4.5	PASS

Conducted powers were measured for each Mode/Band applied condition. All conducted power measurements were verified to be within tolerance.

8.7.4 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.

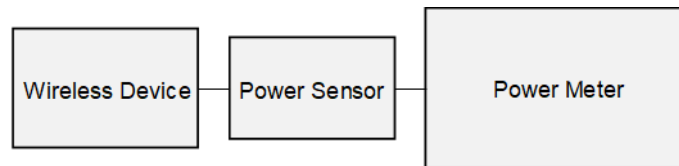


Figure 8-9
Power Measurement Setup

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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
1/7/2020	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	55.725	-3.44%	-0.01%
			710	0.932	55.566	0.960	55.687	-2.92%	-0.22%
			720	0.940	55.398	0.961	55.548	-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	4.69%	-1.25%
			800	0.977	56.385	0.967	55.326	1.00%	1.85%
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%
			1710	1.487	52.783	1.463	53.537	1.64%	-1.41%
12/9/2019	1750B	19.3	1750	1.576	52.685	1.488	53.432	2.49%	-1.40%
			1790	1.566	52.469	1.514	53.326	3.43%	-1.61%
			1710	1.470	52.216	1.463	53.537	0.48%	-2.47%
1/4/2020	1750B	20.1	1750	1.513	52.124	1.488	53.432	1.68%	-2.45%
			1790	1.551	51.946	1.514	53.326	2.44%	-2.59%
			1850	1.551	51.427	1.520	53.300	-3.95%	-3.51%
12/9/2019	1900B	18.8	1880	1.487	51.318	1.520	53.300	-2.49%	-3.72%
			1910	1.503	51.149	1.520	53.300	-1.12%	-4.04%
			1850	1.515	52.186	1.520	53.300	-0.33%	-2.09%
1/6/2020	1900B	22.8	1880	1.533	51.839	1.520	53.300	0.86%	-2.74%
			1910	1.584	51.681	1.520	53.300	4.87%	-3.04%
			1850	1.521	52.147	1.520	53.300	0.07%	-2.29%
1/13/2020	1900B	20.7	1880	1.556	51.033	1.520	53.300	2.30%	-0.50%
			1910	1.585	52.949	1.520	53.300	4.28%	-0.66%
			2300	1.833	52.242	1.809	52.900	1.33%	-1.24%
1/12/2020	2300B	22.0	2310	1.845	52.193	1.816	52.887	1.60%	-1.31%
			2320	1.859	52.149	1.826	52.873	1.81%	-1.37%
			2400	1.950	50.838	1.902	52.767	3.31%	-3.66%
12/18/2019	2450B	21.6	2450	2.022	50.678	1.950	52.700	3.69%	-3.84%
			2500	2.102	50.430	2.021	52.636	4.01%	-4.19%
			2400	1.977	53.214	1.902	52.767	3.94%	0.85%
1/1/2020	2450B	21.9	2450	2.045	53.045	1.950	52.700	4.87%	0.65%
			2500	2.120	52.809	2.021	52.636	4.90%	0.33%
			2550	2.186	52.644	2.092	52.573	4.49%	0.14%
			2600	2.263	52.409	2.163	52.509	4.62%	-0.19%
			2650	2.330	52.236	2.234	52.445	4.30%	-0.40%
			2700	2.407	52.013	2.305	52.382	4.43%	-0.70%
			2400	1.968	51.025	1.902	52.767	3.47%	-3.30%
			2450	2.010	50.958	1.950	52.700	3.08%	-3.31%
			2500	2.057	50.864	2.021	52.636	2.78%	-3.39%
			2550	2.100	50.790	2.092	52.573	0.38%	-3.39%
			2600	2.151	50.698	2.163	52.509	-0.55%	-3.45%
			2650	2.195	50.615	2.234	52.445	-1.75%	-3.49%
1/13/2020	2450B	20.4	2700	2.248	50.526	2.305	52.382	-2.47%	-3.54%
			2750	2.293	50.434	2.375	52.320	-3.45%	-3.60%
			2400	1.986	50.952	1.902	52.767	0.84%	-3.44%
			2450	1.948	50.877	1.950	52.700	-0.10%	-3.45%
			2500	2.022	50.597	2.021	52.636	0.05%	-3.87%
			3500	3.403	49.675	3.314	51.321	2.69%	-3.21%
			3550	3.475	49.524	3.372	51.254	3.05%	-3.38%
			3600	3.539	49.383	3.431	51.186	3.15%	-3.52%
			3645	3.603	49.236	3.483	51.125	3.49%	-3.70%
			3685	3.657	49.150	3.530	51.070	3.60%	-3.74%
			3725	3.710	49.010	3.577	51.016	3.72%	-3.93%
			5180	5.068	48.653	5.276	49.041	-3.94%	-0.79%
12/16/2019	5200B-5800B	18.8	5200	5.089	48.628	5.299	49.014	-3.96%	-0.79%
			5220	5.111	48.555	5.323	48.987	-3.98%	-0.88%
			5240	5.148	48.513	5.346	48.960	-3.70%	-0.91%
			5260	5.182	48.495	5.369	48.933	-3.48%	-0.90%
			5280	5.207	48.486	5.393	48.906	-3.45%	-0.86%
			5300	5.230	48.422	5.416	48.879	0.31%	-3.68%
			5320	5.257	48.387	5.439	48.851	1.34%	-4.25%
			5500	5.508	48.044	5.650	48.607	3.71%	-4.64%
			5520	5.539	47.988	5.673	48.580	0.64%	-4.86%
			5540	5.573	47.946	5.696	48.553	-2.18%	-1.25%
			5560	5.609	47.915	5.720	48.526	-1.94%	-1.26%
			5580	5.636	47.905	5.743	48.499	-1.86%	-1.22%
			5600	5.653	47.862	5.766	48.471	-1.96%	-1.26%
			5620	5.685	47.796	5.790	48.444	-1.81%	-1.34%
			5640	5.713	47.763	5.813	48.417	-1.55%	-1.35%
			5660	5.755	47.748	5.837	48.390	-1.40%	-1.33%
			5680	5.784	47.719	5.860	48.363	-1.30%	-1.33%
			5700	5.803	47.664	5.883	48.336	-1.36%	-1.39%
			5745	5.884	47.570	5.936	48.275	-0.88%	-1.46%
			5765	5.909	47.562	5.959	48.248	-0.84%	-1.42%
			5785	5.927	47.533	5.982	48.220	-0.92%	-1.42%
			5800	5.939	47.473	6.000	48.200	-1.02%	-1.51%
			5805	5.933	35.039	5.275	35.295	-4.59%	-0.79%
			5825	5.966	35.048	5.296	35.275	-4.34%	-0.64%

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 $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix 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	01/07/2020	20.5	20.5	0.200	1097	7421	1.760	8.560	8.800	2.80%
AM8	835	BODY	01/09/2020	22.0	19.8	0.200	4d040	7416	1.890	9.530	9.450	-0.84%
AM7	1750	BODY	12/30/2019	21.4	20.0	0.100	1092	3837	3.910	36.400	39.100	7.42%
AM8	1750	BODY	01/04/2020	19.8	19.6	0.100	1083	7416	3.970	37.100	39.700	7.01%
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	01/09/2020	22.7	21.1	0.100	5d181	7491	3.960	39.500	39.600	0.25%
AM1	1900	BODY	01/13/2020	21.1	19.7	0.100	5d026	7421	4.080	39.900	40.800	2.26%
AM4	2300	BODY	01/12/2020	22.1	20.1	0.100	1038	7532	4.470	46.700	44.700	-4.28%
AM4	2450	BODY	12/18/2019	20.6	21.6	0.100	921	7532	5.320	50.800	53.200	4.72%
AM4	2450	BODY	01/01/2020	21.6	20.6	0.100	945	7532	5.260	49.400	52.600	6.48%
AM5	2450	BODY	01/13/2020	23.4	19.5	0.100	921	7491	5.160	50.800	51.600	1.57%
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	01/01/2020	21.6	20.6	0.100	1009	7532	5.530	55.500	55.300	-0.36%
AM5	2600	BODY	01/13/2020	23.4	19.5	0.100	1069	7491	5.440	55.300	54.400	-1.63%
AM3	3500	BODY	01/04/2020	23.1	21.3	0.100	1068	3949	6.440	65.300	64.400	-1.38%
AM3	3700	BODY	01/04/2020	23.1	21.3	0.100	1029	3949	6.230	64.900	62.300	-4.01%
AM5	5250	BODY	12/16/2019	22.7	19.0	0.050	1123	7491	3.600	74.000	72.000	-2.70%
AM5	5600	BODY	12/16/2019	22.7	19.0	0.050	1123	7491	3.830	77.600	76.600	-1.29%
AM5	5750	BODY	12/16/2019	22.7	19.0	0.050	1123	7491	3.590	74.700	71.800	-3.88%

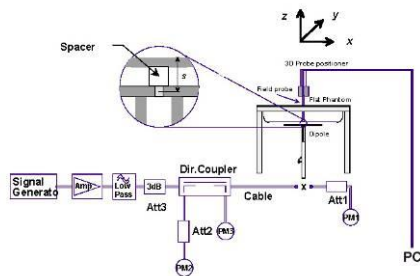


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 Standalone Body SAR Data

Table 10-1
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)		
836.60	190	GSM850	GPRS	26.8	26.29	-0.02	Body	0 mm	Ant 1	DLK2R033P7GG	2	1.415	back	0.416	1.125	0.468	0.169	0.190	
836.60	190	GSM850	GPRS	26.8	26.29	0.15	Body	0 mm	Ant 1	DLK2R033P7GG	2	1.415	top	0.043	1.125	0.048	0.023	0.026	
836.60	190	GSM850	GPRS	26.8	26.29	0.08	Body	0 mm	Ant 1	DLK2R033P7GG	2	1.415	bottom	0.338	1.125	0.380	0.136	0.153	
836.60	190	GSM850	GPRS	26.8	26.29	0.14	Body	0 mm	Ant 1	DLK2R033P7GG	2	1.415	right	0.011	1.125	0.012	0.007	0.008	
824.20	128	GSM850	GPRS	26.8	26.40	-0.02	Body	0 mm	Ant 1	DLK2R033P7GG	2	1.415	left	0.989	1.096	1.084	0.285	0.312	A1
836.60	190	GSM850	GPRS	26.8	26.29	0.00	Body	0 mm	Ant 1	DLK2R033P7GG	2	1.415	left	0.582	1.125	0.655	0.209	0.235	
848.80	251	GSM850	GPRS	26.8	26.24	0.00	Body	0 mm	Ant 1	DLK2R033P7GG	2	1.415	left	0.513	1.138	0.584	0.189	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 10-2
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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																		
824.20	128	GSM850	GPRS	27.3	26.30	0.02	Body	0 mm	Ant 3	DLK2R007P7H9	2	1.415	back	0.820	1.259	1.032	0.415	0.522	
836.60	190	GSM850	GPRS	27.3	26.26	0.12	Body	0 mm	Ant 3	DLK2R007P7H9	2	1.415	back	0.696	1.271	0.885	0.354	0.450	
848.80	251	GSM850	GPRS	27.3	26.29	0.04	Body	0 mm	Ant 3	DLK2R007P7H9	2	1.415	back	0.625	1.262	0.789	0.317	0.400	
836.60	190	GSM850	GPRS	27.3	26.26	-0.06	Body	0 mm	Ant 3	DLK2R007P7H9	2	1.415	top	0.471	1.271	0.599	0.177	0.225	
836.60	190	GSM850	GPRS	27.3	26.26	0.07	Body	0 mm	Ant 3	DLK2R007P7H9	2	1.415	bottom	0.024	1.271	0.031	0.014	0.018	
836.60	190	GSM850	GPRS	27.3	26.26	-0.01	Body	0 mm	Ant 3	DLK2R007P7H9	2	1.415	right	0.522	1.271	0.663	0.203	0.258	
836.60	190	GSM850	GPRS	27.3	26.26	0.17	Body	0 mm	Ant 3	DLK2R007P7H9	2	1.415	left	0.006	1.271	0.008	0.003	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 10-3
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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																		
1850.20	512	GSM 1900	GPRS	21.8	20.87	0.06	Body	0 mm	Ant 2a	DLK2R026P7GG	2	1.415	back	0.856	1.239	1.059	0.428	0.530	
1880.00	661	GSM 1900	GPRS	21.8	20.81	0.14	Body	0 mm	Ant 2a	DLK2R026P7GG	2	1.415	back	0.826	1.256	1.037	0.393	0.494	
1909.80	810	GSM 1900	GPRS	21.8	20.80	0.05	Body	0 mm	Ant 2a	DLK2R026P7GG	2	1.415	back	0.797	1.259	1.003	0.377	0.475	
1880.00	661	GSM 1900	GPRS	21.8	20.81	0.12	Body	0 mm	Ant 2a	DLK2R026P7GG	2	1.415	top	0.019	1.256	0.024	0.008	0.010	
1880.00	661	GSM 1900	GPRS	21.8	20.81	-0.02	Body	0 mm	Ant 2a	DLK2R026P7GG	2	1.415	bottom	0.335	1.256	0.421	0.121	0.152	
1880.00	661	GSM 1900	GPRS	21.8	20.81	0.09	Body	0 mm	Ant 2a	DLK2R026P7GG	2	1.415	right	0.583	1.256	0.732	0.232	0.291	
1880.00	661	GSM 1900	GPRS	21.8	20.81	0.19	Body	0 mm	Ant 2a	DLK2R026P7GG	2	1.415	left	0.000	1.256	0.000	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body									
Spatial Peak										1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population										averaged over 1 gram									

Table 10-4
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 (tg)	Scaling Factor	Reported SAR (tg)	SAR (tg)	Reported SAR (tg)	Plot #
MHz	Ch.													(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1850.20	512	GSM 1900	GPRS	20.5	20.16	0.02	Body	0 mm	Ant 2b	DLK2R026P7GG	2	1.415	back	0.913	1.096	1.001	0.378	0.414	
1880.00	661	GSM 1900	GPRS	20.5	19.97	0.11	Body	0 mm	Ant 2b	DLK2R026P7GG	2	1.415	back	0.885	1.130	1.000	0.365	0.412	
1909.80	810	GSM 1900	GPRS	20.5	20.07	-0.04	Body	0 mm	Ant 2b	DLK2R026P7GG	2	1.415	back	0.886	1.104	0.978	0.365	0.403	
1880.00	661	GSM 1900	GPRS	20.5	19.97	0.16	Body	0 mm	Ant 2b	DLK2R026P7GG	2	1.415	top	0.002	1.130	0.002	0.000	0.000	
1880.00	661	GSM 1900	GPRS	20.5	19.97	-0.02	Body	0 mm	Ant 2b	DLK2R026P7GG	2	1.415	bottom	0.622	1.130	0.703	0.244	0.276	
1880.00	661	GSM 1900	GPRS	20.5	19.97	-0.15	Body	0 mm	Ant 2b	DLK2R026P7GG	2	1.415	right	0.037	1.130	0.042	0.016	0.018	
1880.00	661	GSM 1900	GPRS	20.5	19.97	0.18	Body	0 mm	Ant 2b	DLK2R026P7GG	2	1.415	left	0.007	1.130	0.008	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							

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Table 10-5
GPRS 1900 MHz Ant 4a Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power DnB (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)		
1850.20	512	GSM 1900	GPRS	20.9	20.65	-0.04	Body	0 mm	Ant 4a	DLXZR033P7GG	2	1:4:15	back	0.979	1.059	1.037	0.462	0.489	
1880.00	661	GSM 1900	GPRS	20.9	20.40	-0.05	Body	0 mm	Ant 4a	DLXZR033P7GG	2	1:4:15	back	0.979	1.122	1.098	0.457	0.513	
1909.80	810	GSM 1900	GPRS	20.9	20.48	-0.10	Body	0 mm	Ant 4a	DLXZR033P7GG	2	1:4:15	back	0.998	1.102	1.100	0.477	0.526	A2
1880.00	661	GSM 1900	GPRS	20.9	20.40	-0.04	Body	0 mm	Ant 4a	DLXZR033P7GG	2	1:4:15	top	0.311	1.122	0.349	0.117	0.131	
1880.00	661	GSM 1900	GPRS	20.9	20.40	0.09	Body	0 mm	Ant 4a	DLXZR033P7GG	2	1:4:15	bottom	0.014	1.122	0.016	0.006	0.007	
1880.00	661	GSM 1900	GPRS	20.9	20.40	0.13	Body	0 mm	Ant 4a	DLXZR033P7GG	2	1:4:15	right	0.000	1.122	0.000	0.000	0.000	
1850.20	512	GSM 1900	GPRS	20.9	20.65	0.00	Body	0 mm	Ant 4a	DLXZR033P7GG	2	1:4:15	left	0.929	1.059	0.984	0.376	0.398	
1880.00	661	GSM 1900	GPRS	20.9	20.40	0.01	Body	0 mm	Ant 4a	DLXZR033P7GG	2	1:4:15	left	0.921	1.122	1.033	0.371	0.416	
1909.80	810	GSM 1900	GPRS	20.9	20.48	-0.16	Body	0 mm	Ant 4a	DLXZR033P7GG	2	1:4:15	left	0.973	1.102	1.072	0.386	0.425	
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 DnB (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)		
1850.20	512	GSM 1900	GPRS	21.0	19.90	-0.17	Body	0 mm	Ant 4b	DLXZR026P7GG	2	1:4:15	back	0.786	1.288	1.012	0.330	0.425	
1880.00	661	GSM 1900	GPRS	21.0	19.77	-0.12	Body	0 mm	Ant 4b	DLXZR026P7GG	2	1:4:15	back	0.725	1.327	0.962	0.306	0.406	
1909.80	810	GSM 1900	GPRS	21.0	19.75	-0.16	Body	0 mm	Ant 4b	DLXZR026P7GG	2	1:4:15	back	0.731	1.334	0.975	0.307	0.410	
1880.00	661	GSM 1900	GPRS	21.0	19.77	-0.11	Body	0 mm	Ant 4b	DLXZR026P7GG	2	1:4:15	top	0.599	1.327	0.795	0.239	0.317	
1880.00	661	GSM 1900	GPRS	21.0	19.77	0.08	Body	0 mm	Ant 4b	DLXZR026P7GG	2	1:4:15	bottom	0.003	1.327	0.004	0.001	0.001	
1880.00	661	GSM 1900	GPRS	21.0	19.77	0.00	Body	0 mm	Ant 4b	DLXZR026P7GG	2	1:4:15	right	0.000	1.327	0.000	0.000	0.000	
1880.00	661	GSM 1900	GPRS	21.0	19.77	-0.05	Body	0 mm	Ant 4b	DLXZR026P7GG	2	1:4:15	left	0.046	1.327	0.061	0.017	0.023	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body											
Spatial Peak								1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 1 gram											

Table 10-7
UMTS 850 MHz Ant 1 Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power DnB (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	20.56	0.02	Body	0 mm	Ant 1	DLXZR033P7GG	1:1	back	0.440	1.009	0.444	0.176	0.178	
836.60	4183	UMTS 850	RMC	20.6	20.56	0.10	Body	0 mm	Ant 1	DLXZR033P7GG	1:1	top	0.034	1.009	0.034	0.018	0.018	
836.60	4183	UMTS 850	RMC	20.6	20.56	0.03	Body	0 mm	Ant 1	DLXZR033P7GG	1:1	bottom	0.452	1.009	0.456	0.165	0.166	
836.60	4183	UMTS 850	RMC	20.6	20.56	-0.02	Body	0 mm	Ant 1	DLXZR033P7GG	1:1	right	0.011	1.009	0.011	0.005	0.005	
826.40	4132	UMTS 850	RMC	20.6	20.54	0.01	Body	0 mm	Ant 1	DLXZR033P7GG	1:1	left	1.100	1.014	1.115	0.324	0.329	A3
836.60	4183	UMTS 850	RMC	20.6	20.56	0.03	Body	0 mm	Ant 1	DLXZR033P7GG	1:1	left	0.774	1.009	0.781	0.267	0.269	
846.60	4233	UMTS 850	RMC	20.6	20.43	0.02	Body	0 mm	Ant 1	DLXZR033P7GG	1:1	left	0.690	1.040	0.718	0.243	0.253	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body						
Spatial Peak												1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population												averaged over 1 gram						

Table 10-8
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	19.70	0.05	Body	0 mm	Ant 3	DLXZR007P7H9	1:1	back	0.871	1.148	1.000	0.441	0.506	
836.60	4183	UMTS 850	RMC	20.3	19.78	0.00	Body	0 mm	Ant 3	DLXZR007P7H9	1:1	back	0.663	1.127	0.747	0.337	0.380	
846.60	4233	UMTS 850	RMC	20.3	19.86	0.00	Body	0 mm	Ant 3	DLXZR007P7H9	1:1	back	0.627	1.107	0.694	0.319	0.353	
836.60	4183	UMTS 850	RMC	20.3	19.78	-0.01	Body	0 mm	Ant 3	DLXZR007P7H9	1:1	top	0.515	1.127	0.580	0.194	0.219	
836.60	4183	UMTS 850	RMC	20.3	19.78	0.12	Body	0 mm	Ant 3	DLXZR007P7H9	1:1	bottom	0.031	1.127	0.035	0.017	0.019	
836.60	4183	UMTS 850	RMC	20.3	19.78	0.00	Body	0 mm	Ant 3	DLXZR007P7H9	1:1	right	0.618	1.127	0.696	0.232	0.261	
836.60	4183	UMTS 850	RMC	20.3	19.78	0.12	Body	0 mm	Ant 3	DLXZR007P7H9	1:1	left	0.009	1.127	0.010	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										

FCC ID: BCGA2230		SAR EVALUATION REPORT		Approved by: Quality Manager
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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	14.33	-0.07	Body	0 mm	Ant 2a	DLX2R01LP7GG	1:1	back	0.841	1.102	0.927	0.417	0.460	
1732.40	1412	UMTS 1750	RMC	14.75	14.23	-0.07	Body	0 mm	Ant 2a	DLX2R01LP7GG	1:1	back	0.821	1.127	0.925	0.401	0.452	
1752.60	1513	UMTS 1750	RMC	14.75	14.02	-0.08	Body	0 mm	Ant 2a	DLX2R01LP7GG	1:1	back	0.897	1.183	1.061	0.428	0.506	
1732.40	1412	UMTS 1750	RMC	14.75	14.23	0.02	Body	0 mm	Ant 2a	DLX2R01LP7GG	1:1	top	0.008	1.127	0.009	0.004	0.005	
1732.40	1412	UMTS 1750	RMC	14.75	14.23	-0.04	Body	0 mm	Ant 2a	DLX2R01LP7GG	1:1	bottom	0.246	1.127	0.277	0.098	0.110	
1732.40	1412	UMTS 1750	RMC	14.75	14.23	0.03	Body	0 mm	Ant 2a	DLX2R01LP7GG	1:1	right	0.654	1.127	0.737	0.268	0.302	
1732.40	1412	UMTS 1750	RMC	14.75	14.23	0.01	Body	0 mm	Ant 2a	DLX2R01LP7GG	1:1	left	0.000	1.127	0.000	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body								
Spatial Peak										1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population										averaged over 1 gram								

Table 10-10
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	14.53	-0.02	Body	0 mm	Ant 2b	DLX2R03P7GG	1:1	back	0.929	1.089	1.012	0.403	0.439	
1732.40	1412	UMTS 1750	RMC	14.9	14.55	0.01	Body	0 mm	Ant 2b	DLX2R03P7GG	1:1	back	0.927	1.084	1.005	0.400	0.434	
1752.60	1513	UMTS 1750	RMC	14.9	14.48	-0.02	Body	0 mm	Ant 2b	DLX2R03P7GG	1:1	back	0.988	1.102	1.089	0.424	0.467	A4
1732.40	1412	UMTS 1750	RMC	14.9	14.55	0.16	Body	0 mm	Ant 2b	DLX2R03P7GG	1:1	top	0.000	1.084	0.000	0.000	0.000	
1732.40	1412	UMTS 1750	RMC	14.9	14.55	0.03	Body	0 mm	Ant 2b	DLX2R03P7GG	1:1	bottom	0.587	1.084	0.636	0.234	0.254	
1732.40	1412	UMTS 1750	RMC	14.9	14.55	0.05	Body	0 mm	Ant 2b	DLX2R03P7GG	1:1	right	0.046	1.084	0.050	0.020	0.022	
1732.40	1412	UMTS 1750	RMC	14.9	14.55	-0.18	Body	0 mm	Ant 2b	DLX2R03P7GG	1:1	left	0.009	1.084	0.010	0.004	0.004	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT													Body					
Spatial Peak													1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population													averaged over 1 gram					

Table 10-11
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	14.32	0.01	Body	0 mm	Ant 4a	DLX2R007P7H9	1:1	back	0.916	1.042	0.954	0.418	0.436	
1732.40	1412	UMTS 1750	RMC	14.5	14.46	-0.01	Body	0 mm	Ant 4a	DLX2R007P7H9	1:1	back	0.943	1.009	0.951	0.431	0.435	
1752.60	1513	UMTS 1750	RMC	14.5	14.20	-0.01	Body	0 mm	Ant 4a	DLX2R007P7H9	1:1	back	0.935	1.072	1.002	0.429	0.460	
1732.40	1412	UMTS 1750	RMC	14.5	14.46	-0.08	Body	0 mm	Ant 4a	DLX2R007P7H9	1:1	top	0.279	1.009	0.282	0.112	0.113	
1732.40	1412	UMTS 1750	RMC	14.5	14.46	-0.08	Body	0 mm	Ant 4a	DLX2R007P7H9	1:1	bottom	0.013	1.009	0.013	0.006	0.006	
1732.40	1412	UMTS 1750	RMC	14.5	14.46	0.00	Body	0 mm	Ant 4a	DLX2R007P7H9	1:1	right	0.000	1.009	0.000	0.000	0.000	
1732.40	1412	UMTS 1750	RMC	14.5	14.46	0.09	Body	0 mm	Ant 4a	DLX2R007P7H9	1:1	left	0.752	1.009	0.759	0.300	0.303	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body								
Spatial Peak										1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population										averaged over 1 gram								

Table 10-12
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	14.02	-0.05	Body	0 mm	Ant 4b	DLX2R007P7H9	1:1	back	0.884	1.117	0.987	0.366	0.409	
1732.40	1412	UMTS 1750	RMC	14.5	13.95	-0.06	Body	0 mm	Ant 4b	DLX2R007P7H9	1:1	back	0.757	1.135	0.859	0.323	0.367	
1752.60	1513	UMTS 1750	RMC	14.5	14.08	-0.04	Body	0 mm	Ant 4b	DLX2R007P7H9	1:1	back	0.741	1.102	0.817	0.315	0.347	
1732.40	1412	UMTS 1750	RMC	14.5	13.95	-0.06	Body	0 mm	Ant 4b	DLX2R007P7H9	1:1	top	0.471	1.135	0.535	0.189	0.215	
1732.40	1412	UMTS 1750	RMC	14.5	13.95	0.11	Body	0 mm	Ant 4b	DLX2R007P7H9	1:1	bottom	0.002	1.135	0.002	0.001	0.001	
1732.40	1412	UMTS 1750	RMC	14.5	13.95	-0.02	Body	0 mm	Ant 4b	DLX2R007P7H9	1:1	right	0.010	1.135	0.011	0.005	0.006	
1732.40	1412	UMTS 1750	RMC	14.5	13.95	-0.07	Body	0 mm	Ant 4b	DLX2R007P7H9	1:1	left	0.041	1.135	0.047	0.018	0.020	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body								
Spatial Peak										1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population										averaged over 1 gram								

FCC ID: BCGA2230		 SAR EVALUATION REPORT		Approved by: Quality Manager	
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Table 10-13
UMTS 1900 MHz Ant 2a Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dn (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)		
1852.40	9262	UMTS 1900	RMC	15.1	14.73	-0.02	Body	0 mm	Ant 2a	DLX2R026P7GG	1:1	back	0.919	1.089	1.001	0.459	0.500	
1880.00	9400	UMTS 1900	RMC	15.1	14.88	-0.01	Body	0 mm	Ant 2a	DLX2R026P7GG	1:1	back	0.887	1.052	0.933	0.442	0.465	
1907.60	9538	UMTS 1900	RMC	15.1	14.94	0.00	Body	0 mm	Ant 2a	DLX2R026P7GG	1:1	back	0.859	1.038	0.892	0.428	0.444	
1880.00	9400	UMTS 1900	RMC	15.1	14.88	-0.16	Body	0 mm	Ant 2a	DLX2R026P7GG	1:1	top	0.017	1.052	0.018	0.008	0.008	
1880.00	9400	UMTS 1900	RMC	15.1	14.88	-0.11	Body	0 mm	Ant 2a	DLX2R026P7GG	1:1	bottom	0.354	1.052	0.372	0.126	0.133	
1880.00	9400	UMTS 1900	RMC	15.1	14.88	-0.09	Body	0 mm	Ant 2a	DLX2R026P7GG	1:1	right	0.718	1.052	0.755	0.288	0.303	
1880.00	9400	UMTS 1900	RMC	15.1	14.88	0.17	Body	0 mm	Ant 2a	DLX2R026P7GG	1:1	left	0.004	1.052	0.004	0.002	0.002	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body										
Spatial Peak								1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population								averaged over 1 gram										

Table 10-14
UMTS 1900 MHz Ant 2b Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dn (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Reported SAR (10g)	Plot #	
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)		
1852.40	9262	UMTS 1900	RMC	14.1	13.83	0.01	Body	0 mm	Ant 2b	DLX2R033P7GG	1:1	back	0.945	1.064	1.005	0.383	0.408	AG
1880.00	9400	UMTS 1900	RMC	14.1	13.93	-0.03	Body	0 mm	Ant 2b	DLX2R033P7GG	1:1	back	0.917	1.040	0.954	0.368	0.383	
1907.60	9538	UMTS 1900	RMC	14.1	14.10	-0.02	Body	0 mm	Ant 2b	DLX2R033P7GG	1:1	back	0.923	1.000	0.923	0.368	0.368	
1880.00	9400	UMTS 1900	RMC	14.1	13.93	-0.06	Body	0 mm	Ant 2b	DLX2R033P7GG	1:1	top	0.003	1.040	0.003	0.002	0.002	
1880.00	9400	UMTS 1900	RMC	14.1	13.93	-0.06	Body	0 mm	Ant 2b	DLX2R033P7GG	1:1	bottom	0.656	1.040	0.682	0.262	0.272	
1880.00	9400	UMTS 1900	RMC	14.1	13.93	-0.04	Body	0 mm	Ant 2b	DLX2R033P7GG	1:1	right	0.001	1.040	0.001	0.000	0.000	
1880.00	9400	UMTS 1900	RMC	14.1	13.93	0.18	Body	0 mm	Ant 2b	DLX2R033P7GG	1:1	left	0.001	1.040	0.001	0.001	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body										
Spatial Peak								1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population								averaged over 1 gram										

Table 10-15
UMTS 1900 MHz Ant 4a Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dn (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	14.65	0.01	Body	0 mm	Ant 4a	DLX2R008P7H9	1:1	back	0.926	1.059	0.981	0.428	0.453	
1880.00	9400	UMTS 1900	RMC	14.9	14.59	-0.12	Body	0 mm	Ant 4a	DLX2R008P7H9	1:1	back	0.889	1.074	0.955	0.439	0.471	
1907.60	9538	UMTS 1900	RMC	14.9	14.55	-0.14	Body	0 mm	Ant 4a	DLX2R008P7H9	1:1	back	0.928	1.084	1.006	0.456	0.494	
1880.00	9400	UMTS 1900	RMC	14.9	14.59	0.00	Body	0 mm	Ant 4a	DLX2R008P7H9	1:1	top	0.249	1.074	0.267	0.095	0.102	
1880.00	9400	UMTS 1900	RMC	14.9	14.59	0.03	Body	0 mm	Ant 4a	DLX2R008P7H9	1:1	bottom	0.014	1.074	0.015	0.007	0.008	
1880.00	9400	UMTS 1900	RMC	14.9	14.59	-0.14	Body	0 mm	Ant 4a	DLX2R008P7H9	1:1	right	0.003	1.074	0.003	0.002	0.002	
1852.40	9262	UMTS 1900	RMC	14.9	14.65	-0.17	Body	0 mm	Ant 4a	DLX2R008P7H9	1:1	left	0.816	1.059	0.864	0.327	0.346	
1880.00	9400	UMTS 1900	RMC	14.9	14.59	-0.01	Body	0 mm	Ant 4a	DLX2R008P7H9	1:1	left	0.891	1.074	0.957	0.346	0.372	
1907.60	9538	UMTS 1900	RMC	14.9	14.55	-0.19	Body	0 mm	Ant 4a	DLX2R008P7H9	1:1	left	0.860	1.084	0.932	0.341	0.370	
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 10-16
UMTS 1900 MHz Ant 4b Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dn (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																	
1852.40	9262	UMTS 1900	RMC	14.7	13.70	0.06	Body	0 mm	Ant 4b	DLX2R008P7H9	1:1	back	0.795	1.259	1.001	0.322	0.405	
1880.00	9400	UMTS 1900	RMC	14.7	13.80	-0.04	Body	0 mm	Ant 4b	DLX2R008P7H9	1:1	back	0.786	1.230	0.967	0.318	0.391	
1907.60	9538	UMTS 1900	RMC	14.7	13.70	0.00	Body	0 mm	Ant 4b	DLX2R008P7H9	1:1	back	0.793	1.259	0.998	0.319	0.402	
1880.00	9400	UMTS 1900	RMC	14.7	13.80	-0.02	Body	0 mm	Ant 4b	DLX2R008P7H9	1:1	top	0.619	1.230	0.761	0.245	0.301	
1880.00	9400	UMTS 1900	RMC	14.7	13.80	0.10	Body	0 mm	Ant 4b	DLX2R008P7H9	1:1	bottom	0.003	1.230	0.004	0.001	0.001	
1880.00	9400	UMTS 1900	RMC	14.7	13.80	0.04	Body	0 mm	Ant 4b	DLX2R008P7H9	1:1	right	0.007	1.230	0.009	0.002	0.002	
1880.00	9400	UMTS 1900	RMC	14.7	13.80	0.12	Body	0 mm	Ant 4b	DLX2R008P7H9	1:1	left	0.036	1.230	0.044	0.015	0.018	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT													Body					
Spatial Peak													1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population													averaged over 1 gram					

FCC ID: BCGA2230			SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 10-17
LTE Band 12 Ant 1 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dn [dB]	MFR [dB]	Antenna Config.	Device Serial Number		Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Plot #
MHz	Ch.								Scaling Factor	Reported SAR [W/kg]							SAR [W/kg]				
707.50	23095	M4U	LTE Band 12	10	21.5	21.30	-0.18	0	Ant 1	DLX2R031P70G	QPSK	1	0	0 mm	back	1:1	0.552	1.047	0.578	0.275	
707.50	23095	M4U	LTE Band 12	10	21.5	21.22	-0.08	0	Ant 1	DLX2R031P70G	QPSK	25	12	0 mm	back	1:1	0.500	1.067	0.534	0.239	0.255
707.50	23095	M4U	LTE Band 12	10	21.5	21.30	-0.17	0	Ant 1	DLX2R031P70G	QPSK	1	0	0 mm	top	1:1	0.024	1.047	0.025	0.013	0.014
707.50	23095	M4U	LTE Band 12	10	21.5	21.22	-0.08	0	Ant 1	DLX2R031P70G	QPSK	25	12	0 mm	top	1:1	0.024	1.067	0.026	0.012	0.013
707.50	23095	M4U	LTE Band 12	10	21.5	21.30	-0.01	0	Ant 1	DLX2R031P70G	QPSK	1	0	0 mm	bottom	1:1	0.503	1.047	0.527	0.191	0.190
707.50	23095	M4U	LTE Band 12	10	21.5	21.22	-0.04	0	Ant 1	DLX2R031P70G	QPSK	25	12	0 mm	bottom	1:1	0.487	1.067	0.520	0.174	0.186
707.50	23095	M4U	LTE Band 12	10	21.5	21.30	-0.14	0	Ant 1	DLX2R031P70G	QPSK	1	0	0 mm	right	1:1	0.008	1.047	0.008	0.004	0.004
707.50	23095	M4U	LTE Band 12	10	21.5	21.22	-0.19	0	Ant 1	DLX2R031P70G	QPSK	25	12	0 mm	right	1:1	0.007	1.067	0.007	0.004	0.004
707.50	23095	M4U	LTE Band 12	10	21.5	21.30	-0.04	0	Ant 1	DLX2R031P70G	QPSK	1	0	0 mm	left	1:1	1.050	1.047	1.099	0.270	0.283
707.50	23095	M4U	LTE Band 12	10	21.5	21.22	-0.02	0	Ant 1	DLX2R031P70G	QPSK	25	12	0 mm	left	1:1	0.733	1.067	0.782	0.232	0.248
707.50	23095	M4U	LTE Band 12	10	21.5	21.09	-0.02	0	Ant 1	DLX2R031P70G	QPSK	50	0	0 mm	left	1:1	0.747	1.099	0.821	0.226	0.248
707.50	23095	M4U	LTE Band 12	10	18.5	18.26	-0.09	0	Ant 1	DLX2R031P70G	QPSK	1	0	0 mm	left	1:1	0.444	1.033	0.459	0.139	0.144
707.50	23095	M4U	LTE Band 12	10	18.5	18.25	-0.05	0	Ant 1	DLX2R031P70G	QPSK	25	12	0 mm	left	1:1	0.409	1.059	0.433	0.128	0.136
ANSI / IEEE C63.1 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 12 Ant 3 Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dn [dB]	MFR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Plot #
MHz	Ch.															Scaling Factor	Reported SAR [W/kg]	SAR [W/kg]		
707.50	23095	MU	LTE Band 12	10	20.0	19.68	-0.09	0	Ant 3	DLX2R031P70G	QPSK	1	49	0 mm	back	1:1	0.904	1.076	0.973	0.498
707.50	23095	MU	LTE Band 12	10	20.0	19.51	-0.14	0	Ant 3	DLX2R031P70G	QPSK	25	0	0 mm	back	1:1	1.000	1.119	1.119	0.548
707.50	23095	MU	LTE Band 12	10	20.0	19.44	-0.14	0	Ant 3	DLX2R031P70G	QPSK	50	0	0 mm	back	1:1	1.010	1.138	1.149	0.558
707.50	23095	MU	LTE Band 12	10	17.0	16.53	-0.11	0	Ant 3	DLX2R031P70G	QPSK	1	0	0 mm	back	1:1	0.486	1.114	0.541	0.273
707.50	23095	MU	LTE Band 12	10	17.0	16.47	-0.18	0	Ant 3	DLX2R031P70G	QPSK	25	0	0 mm	back	1:1	0.466	1.130	0.527	0.264
707.50	23095	MU	LTE Band 12	10	20.0	19.68	-0.06	0	Ant 3	DLX2R031P70G	QPSK	1	49	0 mm	top	1:1	0.425	1.076	0.457	0.167
707.50	23095	MU	LTE Band 12	10	20.0	19.51	-0.08	0	Ant 3	DLX2R031P70G	QPSK	25	0	0 mm	top	1:1	0.417	1.119	0.467	0.173
707.50	23095	MU	LTE Band 12	10	20.0	19.68	-0.18	0	Ant 3	DLX2R031P70G	QPSK	1	49	0 mm	bottom	1:1	0.014	1.076	0.015	0.006
707.50	23095	MU	LTE Band 12	10	20.0	19.51	-0.02	0	Ant 3	DLX2R031P70G	QPSK	25	0	0 mm	bottom	1:1	0.014	1.119	0.016	0.007
707.50	23095	MU	LTE Band 12	10	20.0	19.68	-0.06	0	Ant 3	DLX2R031P70G	QPSK	1	49	0 mm	right	1:1	0.631	1.076	0.679	0.242
707.50	23095	MU	LTE Band 12	10	20.0	19.51	-0.07	0	Ant 3	DLX2R031P70G	QPSK	25	0	0 mm	right	1:1	0.680	1.119	0.761	0.267
707.50	23095	MU	LTE Band 12	10	20.0	19.68	-0.13	0	Ant 3	DLX2R031P70G	QPSK	1	49	0 mm	left	1:1	0.005	1.076	0.005	0.002
707.50	23095	MU	LTE Band 12	10	20.0	19.51	-0.20	0	Ant 3	DLX2R031P70G	QPSK	25	0	0 mm	left	1:1	0.005	1.119	0.006	0.002
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Body										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

Table 10-19
LTE Band 13 Ant 1 Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dn [dB]	MFR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Plot #
MHz	Ch															Scaling Factor	Reported SAR [W/kg]	SAR [W/kg]		
782.00	23230	MU	LTE Band 13	10	21.5	21.14	-0.13	0	Ant 1	DLX2R033P70G	QPSK	1	0	0 mm	back	1:1	0.663	1.086	0.720	0.350
782.00	23230	MU	LTE Band 13	10	21.5	20.83	-0.10	0	Ant 1	DLX2R033P70G	QPSK	25	25	0 mm	back	1:1	0.601	1.167	0.701	0.341
782.00	23230	MU	LTE Band 13	10	21.5	21.14	-0.06	0	Ant 1	DLX2R033P70G	QPSK	1	0	0 mm	top	1:1	0.029	1.086	0.031	0.015
782.00	23230	MU	LTE Band 13	10	21.5	20.83	-0.20	0	Ant 1	DLX2R033P70G	QPSK	25	25	0 mm	top	1:1	0.033	1.167	0.039	0.018
782.00	23230	MU	LTE Band 13	10	21.5	21.14	-0.01	0	Ant 1	DLX2R033P70G	QPSK	1	0	0 mm	bottom	1:1	0.517	1.086	0.561	0.211
782.00	23230	MU	LTE Band 13	10	21.5	20.83	-0.01	0	Ant 1	DLX2R033P70G	QPSK	25	25	0 mm	bottom	1:1	0.483	1.167	0.564	0.210
782.00	23230	MU	LTE Band 13	10	21.5	21.14	-0.16	0	Ant 1	DLX2R033P70G	QPSK	1	0	0 mm	right	1:1	0.009	1.086	0.010	0.005
782.00	23230	MU	LTE Band 13	10	21.5	20.83	-0.13	0	Ant 1	DLX2R033P70G	QPSK	25	25	0 mm	right	1:1	0.008	1.167	0.009	0.004
782.00	23230	MU	LTE Band 13	10	21.5	21.14	-0.00	0	Ant 1	DLX2R033P70G	QPSK	1	0	0 mm	left	1:1	1.090	1.086	1.184	0.358
782.00	23230	MU	LTE Band 13	10	21.5	20.83	-0.10	0	Ant 1	DLX2R033P70G	QPSK	25	25	0 mm	left	1:1	0.742	1.167	0.866	0.273
782.00	23230	MU	LTE Band 13	10	21.5	20.81	-0.03	0	Ant 1	DLX2R033P70G	QPSK	50	0	0 mm	left	1:1	0.730	1.172	0.856	0.271
782.00	23230	MU	LTE Band 13	10	18.5	18.29	-0.07	0	Ant 1	DLX2R033P70G	QPSK	1	0	0 mm	left	1:1	0.439	1.090	0.461	0.152
782.00	23230	MU	LTE Band 13	10	18.5	18.12	-0.02	0	Ant 1	DLX2R033P70G	QPSK	25	25	0 mm	left	1:1	0.375	1.091	0.409	0.135
782.00	23230	MU	LTE Band 13	10	21.5	21.14	-0.03	0	Ant 1	DLX2R033P70G	QPSK	1	0	0 mm	left	1:1	1.063	1.086	1.046	0.353
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Body										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

Note: Blue entry represents variability measurement.

FCC ID: BCGA2230	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C1912170052-01-R1.BCG	Test Dates: 12/16/2019 – 01/14/2020	DUT Type: Tablet Device	Page 232 of 283

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) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Note
MHz	Ch.															SAR (1g) (W/kg)	SAR (10g) (W/kg)					
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.63	0.00	0	Ant3	DLXN0233P7GG	QPSK	1	0	0 mm	back	L1	0.941	1.167	1.098	0.486	0.567	
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.45	0.00	0	Ant3	DLXN0233P7GG	QPSK	25	12	0 mm	back	L1	0.809	1.216	0.984	0.416	0.506	
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.40	0.00	0	Ant3	DLXN0233P7GG	QPSK	50	0	0 mm	back	L1	0.826	1.222	1.009	0.426	0.521	
7182.00	23230	Mtd	LTE Band 13	10	17.3	17.30	-0.16	0	Ant3	DLXN0233P7GG	QPSK	1	0	0 mm	back	L1	0.534	1.000	0.534	0.269	0.269	
7182.00	23230	Mtd	LTE Band 13	10	17.3	17.26	-0.17	0	Ant3	DLXN0233P7GG	QPSK	25	25	0 mm	back	L1	0.481	1.009	0.485	0.240	0.242	
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.60	-0.03	0	Ant3	DLXN0233P7GG	QPSK	1	0	0 mm	top	L1	0.472	1.167	0.951	0.474	0.203	
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.49	-0.07	0	Ant3	DLXN0233P7GG	QPSK	25	12	0 mm	top	L1	0.472	1.216	0.974	0.375	0.213	
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.63	0.16	0	Ant3	DLXN0233P7GG	QPSK	1	0	0 mm	bottom	L1	0.920	1.167	0.923	0.505	0.006	
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.45	0.17	0	Ant3	DLXN0233P7GG	QPSK	25	12	0 mm	bottom	L1	0.921	1.216	0.926	0.510	0.012	
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.63	-0.01	0	Ant3	DLXN0233P7GG	QPSK	1	0	0 mm	right	L1	0.793	1.167	0.925	0.275	0.321	
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.45	0.00	0	Ant3	DLXN0233P7GG	QPSK	25	12	0 mm	right	L1	0.880	1.216	1.070	0.302	0.367	
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.43	-0.02	0	Ant3	DLXN0233P7GG	QPSK	50	0	0 mm	right	L1	0.885	1.222	1.061	0.301	0.368	
7182.00	23230	Mtd	LTE Band 13	10	17.3	17.30	-0.02	0	Ant3	DLXN0233P7GG	QPSK	1	0	0 mm	right	L1	0.466	1.000	0.466	0.152	0.152	
7182.00	23230	Mtd	LTE Band 13	10	17.3	17.26	-0.08	0	Ant3	DLXN0233P7GG	QPSK	25	25	0 mm	right	L1	0.395	1.009	0.399	0.132	0.133	
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.63	0.12	0	Ant3	DLXN0233P7GG	QPSK	1	0	0 mm	left	L1	0.908	1.167	0.909	0.504	0.005	
7182.00	23230	Mtd	LTE Band 13	10	20.3	18.49	0.19	0	Ant3	DLXN0233P7GG	QPSK	25	12	0 mm	left	L1	0.900	1.216	0.900	0.500	0.000	
ANSI / IEEE C63.10M5 - SAFETY LIMIT Spatial Peak																Body 1.6 W/kg (avg/1g) Averaged over 1 gram						
Uncontrolled Exposure/General Population																						

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Spectral Density (dBm)	MFR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (20g) (W/kg)	Reported SAR (W/kg)	Plot
MHz	Ch.																				
844.0	26996	High	LTE Band 26 (Cat4)	10	20.6	20.58	0.00	0	AN1	DLXNRLLP7TGG	QPSK	1	49	0 mm	back	1.1	0.438	1.005	0.440	0.181	0.182
844.0	26996	High	LTE Band 26 (Cat4)	10	20.6	20.60	0.01	0	AN1	DLXNRLLP7TGG	QPSK	25	25	0 mm	back	1.1	0.441	1.000	0.441	0.179	0.179
844.0	26996	High	LTE Band 26 (Cat4)	10	20.6	20.58	0.02	0	AN1	DLXNRLLP7TGG	QPSK	1	49	0 mm	top	1.1	0.440	1.005	0.040	0.021	0.021
844.0	26996	High	LTE Band 26 (Cat4)	10	20.6	20.60	0.07	0	AN1	DLXNRLLP7TGG	QPSK	25	25	0 mm	top	1.1	0.449	1.000	0.049	0.025	0.025
844.0	26996	High	LTE Band 26 (Cat4)	10	20.6	20.58	0.08	0	AN1	DLXNRLLP7TGG	QPSK	1	49	0 mm	bottom	1.1	0.454	1.005	0.456	0.177	0.178
844.0	26996	High	LTE Band 26 (Cat4)	10	20.6	20.60	0.05	0	AN1	DLXNRLLP7TGG	QPSK	25	25	0 mm	bottom	1.1	0.457	1.000	0.457	0.175	0.175
844.0	26996	High	LTE Band 26 (Cat4)	10	20.6	20.58	0.13	0	AN1	DLXNRLLP7TGG	QPSK	1	49	0 mm	right	1.1	0.512	1.005	0.012	0.006	0.006
844.0	26996	High	LTE Band 26 (Cat4)	10	20.6	20.60	0.15	0	AN1	DLXNRLLP7TGG	QPSK	25	25	0 mm	right	1.1	0.511	1.000	0.511	0.005	0.005
819.0	26740	Low	LTE Band 26 (Cat4)	10	20.6	20.49	-0.05	0	AN1	DLXNRLLP7TGG	QPSK	1	25	0 mm	left	1.1	0.922	1.026	0.946	0.330	0.330
811.0	26885	Mid	LTE Band 26 (Cat4)	10	20.6	20.32	-0.09	0	AN1	DLXNRLLP7TGG	QPSK	1	49	0 mm	left	1.1	0.820	1.087	0.875	0.279	0.288
811.0	26885	Mid	LTE Band 26 (Cat4)	10	20.6	20.58	-0.10	0	AN1	DLXNRLLP7TGG	QPSK	1	49	0 mm	left	1.1	0.760	1.005	0.764	0.251	0.252
819.0	26740	Low	LTE Band 26 (Cat4)	10	20.6	20.53	-0.03	0	AN1	DLXNRLLP7TGG	QPSK	25	12	0 mm	left	1.1	1.100	1.016	1.118	0.318	0.323
811.0	26885	Mid	LTE Band 26 (Cat4)	10	20.6	20.32	0.17	0	AN1	DLXNRLLP7TGG	QPSK	25	25	0 mm	left	1.1	0.868	1.087	0.815	0.279	0.298
844.0	26996	High	LTE Band 26 (Cat4)	10	20.6	20.60	-0.05	0	AN1	DLXNRLLP7TGG	QPSK	25	25	0 mm	left	1.1	0.797	1.000	0.797	0.260	0.260
819.0	26740	Low	LTE Band 26 (Cat4)	10	20.6	20.55	-0.05	0	AN1	DLXNRLLP7TGG	QPSK	50	0	0 mm	left	1.1	0.987	1.012	0.979	0.310	0.314
AN51 / IEEE CS3.1.1992 - SAFETY LIMIT Special Peak																Body 1.6 W/kg (avg) (max 1.6 W/kg)					
Uncertified Exposed/General Population																					

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowable Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MFR (dB)	Antenna Config.	Device Serial Number	Moderation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (Hz)	Scaling Factor	Reported SAR (1g)	SAR (3g)	Reported SAR (150g)	Plot
MHz	Coef															(W/kg)		(W/kg)	(W/kg)		
813.50	26746	Low	LTE Band 26 (Cat4)	10	20.3	19.97	0.00	0	Ant 3	DLXZK9008P79HS	QP5K	1	89	0 mm	back	1.1	0.869	1.079	0.938	0.445	0.480
813.50	26885	Med	LTE Band 26 (Cat4)	10	20.3	19.68	0.00	0	Ant 3	DLXZK9008P79HS	QP5K	1	0	0 mm	back	1.1	0.807	1.151	0.899	0.414	0.447
844.00	26990	High	LTE Band 26 (Cat4)	10	20.3	20.14	0.01	0	Ant 3	DLXZK9008P79HS	QP5K	1	0	0 mm	back	1.1	0.747	1.038	0.775	0.384	0.399
844.00	26746	Low	LTE Band 26 (Cat4)	10	20.3	19.80	0.01	0	Ant 3	DLXZK9008P79HS	QP5K	25	25	0 mm	back	1.1	0.892	1.122	1.001	0.456	0.512
813.50	26885	Med	LTE Band 26 (Cat4)	10	20.3	19.64	0.00	0	Ant 3	DLXZK9008P79HS	QP5K	25	12	0 mm	back	1.1	0.774	1.164	0.901	0.396	0.461
844.00	26990	High	LTE Band 26 (Cat4)	10	20.3	20.14	-0.19	0	Ant 3	DLXZK9008P79HS	QP5K	25	25	0 mm	back	1.1	0.722	1.038	0.749	0.372	0.386
844.00	26990	High	LTE Band 26 (Cat4)	10	20.3	20.06	0.02	0	Ant 3	DLXZK9008P79HS	QP5K	50	0	0 mm	back	1.1	0.741	1.067	0.783	0.379	0.401
844.00	26990	High	LTE Band 26 (Cat4)	10	20.3	20.14	-0.03	0	Ant 3	DLXZK9008P79HS	QP5K	1	0	0 mm	top	1.1	0.503	1.038	0.522	0.381	0.198
844.00	26990	High	LTE Band 26 (Cat4)	10	20.3	20.14	0.05	0	Ant 3	DLXZK9008P79HS	QP5K	25	25	0 mm	top	1.1	0.520	1.038	0.540	0.386	0.206
844.00	26990	High	LTE Band 26 (Cat4)	10	20.3	20.14	-0.14	0	Ant 3	DLXZK9008P79HS	QP5K	1	0	0 mm	bottom	1.1	0.506	1.038	0.507	0.380	0.021
844.00	26990	High	LTE Band 26 (Cat4)	10	20.3	20.14	0.08	0	Ant 3	DLXZK9008P79HS	QP5K	25	25	0 mm	bottom	1.1	0.051	1.038	0.052	0.018	0.019
844.00	26990	High	LTE Band 26 (Cat4)	10	20.3	20.14	-0.03	0	Ant 3	DLXZK9008P79HS	QP5K	1	0	0 mm	right	1.1	0.580	1.038	0.602	0.220	0.228
844.00	26990	High	LTE Band 26 (Cat4)	10	20.3	20.14	0.06	0	Ant 3	DLXZK9008P79HS	QP5K	25	25	0 mm	right	1.1	0.571	1.038	0.593	0.218	0.226
844.00	26990	High	LTE Band 26 (Cat4)	10	20.3	20.14	0.13	0	Ant 3	DLXZK9008P79HS	QP5K	1	0	0 mm	left	1.1	0.008	1.038	0.008	0.003	0.003
844.00	26990	High	LTE Band 26 (Cat4)	10	20.3	20.14	-0.08	0	Ant 3	DLXZK9008P79HS	QP5K	25	25	0 mm	left	1.1	0.007	1.038	0.007	0.003	0.003
UNCLASSIFIED / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Special Power										14 W/kg (initial)											
Uncontrolled Exposure/General Population										1.6 W/kg (initial)											

FCC ID: BCGA2230	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C1912170052-01-R1.BCG	Test Dates: 12/16/2019 – 01/14/2020	DUT Type: Tablet Device	Page 233 of 283

Table 10-23
LTE Band 5 Ant 1 Body SAR

MEASUREMENT RESULTS																								
# CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	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	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.58	-0.03	0	Ant 1	DLX2020BPT7H5	QPSK	1	49	0 mm	back	1:1	0.572	1.005	0.575	0.230	0.230	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.53	-0.02	0	Ant 1	DLX2020BPT7H5	QPSK	25	25	0 mm	back	1:1	0.578	1.016	0.585	0.230	0.234	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.58	-0.06	0	Ant 1	DLX2020BPT7H5	QPSK	1	49	0 mm	top	1:1	0.555	1.005	0.555	0.026	0.029	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.53	-0.02	0	Ant 1	DLX2020BPT7H5	QPSK	25	25	0 mm	top	1:1	0.555	1.016	0.556	0.026	0.028	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.58	-0.01	0	Ant 1	DLX2020BPT7H5	QPSK	1	49	0 mm	bottom	1:1	0.525	1.005	0.528	0.204	0.205	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.53	-0.04	0	Ant 1	DLX2020BPT7H5	QPSK	25	25	0 mm	bottom	1:1	0.539	1.016	0.548	0.204	0.207	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.58	-0.04	0	Ant 1	DLX2020BPT7H5	QPSK	1	49	0 mm	right	1:1	0.615	1.005	0.615	0.008	0.008	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.53	-0.13	0	Ant 1	DLX2020BPT7H5	QPSK	25	25	0 mm	right	1:1	0.614	1.016	0.614	0.007	0.007	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.58	-0.01	0	Ant 1	DLX2020BPT7H5	QPSK	1	49	0 mm	left	1:1	0.885	1.005	0.889	0.303	0.305	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.53	-0.02	0	Ant 1	DLX2020BPT7H5	QPSK	25	25	0 mm	left	1:1	0.915	1.016	0.930	0.309	0.314	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.50	-0.00	0	Ant 1	DLX2020BPT7H5	QPSK	50	0	0 mm	left	1:1	1.160	1.023	1.187	0.333	0.341	A0
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	17.6	17.59	-0.03	0	Ant 1	DLX2020BPT7H5	QPSK	1	49	0 mm	left	1:1	0.425	1.005	0.427	0.134	0.135	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	17.6	17.45	-0.00	0	Ant 1	DLX2020BPT7H5	QPSK	25	25	0 mm	left	1:1	0.451	1.035	0.487	0.141	0.146	
2 CC Uplink	PCC	838.50	20525	MU	LTE Band 5 (CA)	5	20.0	20.45	-0.01	0	Ant 1	DLX2020BPT7H5	QPSK	50	0	0 mm	left	1:1	1.120	1.035	1.159	0.309	0.320	
2 CC Uplink	SCC	838.50	20453	MU	LTE Band 5 (CA)	5	20.0	20.45	-0.01	0	Ant 1	DLX2020BPT7H5	QPSK	25	0	0 mm	left	1:1	1.120	1.035	1.159	0.309	0.320	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.50	-0.15	0	Ant 1	DLX2020BPT7H5	QPSK	50	0	0 mm	left	1:1	1.160	1.023	1.125	0.313	0.320	
ANSI / IEEE C63.19-2 - SAFETY LIMIT										Body														
Spatial Peak										1.6 W/kg (mW/g)														
Uncontrolled Exposure/General Population										averaged over 1 gram														

Note: Blue entry represents variability measurement.

Table 10-24
LTE Band 5 Ant 3 Body SAR

MEASUREMENT RESULTS																								
# CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPE [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.																					
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.22	-0.04	0	Ant 3	DLX2020BPT7H5	QPSK	1	49	0 mm	back	1:1	0.750	1.019	0.754	0.200	0.200	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.17	-0.18	0	Ant 3	DLX2020BPT7H5	QPSK	25	25	0 mm	back	1:1	0.828	1.030	0.853	0.429	0.442	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	19.89	-0.00	0	Ant 3	DLX2020BPT7H5	QPSK	50	0	0 mm	back	1:1	0.878	1.032	0.888	0.446	0.494	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	17.3	17.17	-0.20	0	Ant 3	DLX2020BPT7H5	QPSK	1	0	0 mm	back	1:1	0.480	1.030	0.494	0.237	0.244	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	17.3	17.17	-0.20	0	Ant 3	DLX2020BPT7H5	QPSK	25	25	0 mm	back	1:1	0.457	1.030	0.471	0.225	0.232	
2 CC Uplink	PCC	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.00	-0.00	0	Ant 3	DLX2020BPT7H5	QPSK	50	0	0 mm	back	1:1	0.888	1.072	0.930	0.446	0.478	
2 CC Uplink	SCC	838.50	20453	MU	LTE Band 5 (CA)	5	20.0	20.22	-0.07	0	Ant 3	DLX2020BPT7H5	QPSK	25	0	0 mm	back	1:1	0.903	1.019	0.914	0.216	0.220	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.17	-0.08	0	Ant 3	DLX2020BPT7H5	QPSK	1	49	0 mm	top	1:1	0.978	1.030	0.995	0.217	0.224	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.17	-0.08	0	Ant 3	DLX2020BPT7H5	QPSK	25	25	0 mm	top	1:1	0.978	1.030	0.995	0.217	0.224	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.22	-0.08	0	Ant 3	DLX2020BPT7H5	QPSK	1	49	0 mm	bottom	1:1	0.831	1.019	0.832	0.018	0.018	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.17	-0.03	0	Ant 3	DLX2020BPT7H5	QPSK	25	25	0 mm	bottom	1:1	0.831	1.030	0.832	0.018	0.019	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.22	-0.03	0	Ant 3	DLX2020BPT7H5	QPSK	1	49	0 mm	right	1:1	0.940	1.019	0.950	0.224	0.226	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.17	-0.03	0	Ant 3	DLX2020BPT7H5	QPSK	25	25	0 mm	right	1:1	0.964	1.030	0.981	0.233	0.240	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.22	-0.14	0	Ant 3	DLX2020BPT7H5	QPSK	1	49	0 mm	left	1:1	0.911	1.019	0.911	0.005	0.005	
1 CC Uplink	N/A	838.50	20525	MU	LTE Band 5 (CA)	10	20.0	20.17	-0.18	0	Ant 3	DLX2020BPT7H5	QPSK	25	25	0 mm	left	1:1	0.910	1.030	0.910	0.005	0.005	
ANSI / IEEE C63.19-2 - SAFETY LIMIT										Body														
Spatial Peak										1.6 W/kg (mW/g)														
Uncontrolled Exposure/General Population										averaged over 1 gram														

Table 10-25
LTE Band 4 Ant 2a Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPE [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	MU	LTE Band 4 (MMS)	20	14.75	14.36	-0.03	0	Ant 2a	DLX2020BPT7G5	QPSK	1	0	0 mm	back	1:1	1.000	1.094	1.094	0.479	0.524		
1732.50	20175	MU	LTE Band 4 (MMS)	20	14.75	14.45	-0.05	0	Ant 2a	DLX2020BPT7G5	QPSK	50	0	0 mm	back	1:1	1.020	1.072	1.093	0.481	0.519	A10	
1732.50	20175	MU	LTE Band 4 (MMS)	20	14.75	14.35	-0.03	0	Ant 2a	DLX2020BPT7G5	QPSK	100	0	0 mm	back	1:1	1.000	1.096	1.096	0.474	0.520		
1732.50	20175	MU	LTE Band 4 (MMS)	20	11.75	11.38	-0.00	0	Ant 2a	DLX2020BPT7G5	QPSK	1	50	0 mm	back	1:1	0.441	1.089	0.480	0.214	0.233		
1732.50	20175	MU	LTE Band 4 (MMS)	20	11.75	11.41	-0.02	0	Ant 2a	DLX2020BPT7G5	QPSK	50	0	0 mm	back	1:1	0.434	1.081	0.469	0.211	0.228		
1732.50	20175	MU	LTE Band 4 (MMS)	20	14.75	14.36	-0.18	0	Ant 2a	DLX2020BPT7G5	QPSK	1	0	0 mm	top	1:1	0.921	1.094	0.912	0.005	0.005		
1732.50	20175	MU	LTE Band 4 (MMS)	20	14.75	14.45	-0.20	0	Ant 2a	DLX2020BPT7G5	QPSK	50	0	0 mm	top	1:1	0.911	1.072	0.912	0.006	0.006		
1732.50	20175	MU	LTE Band 4 (MMS)	20	14.75	14.36	-0.02	0	Ant 2a	DLX2020BPT7G5	QPSK	1	0	0 mm	bottom	1:1	0.973	1.094	0.299	0.110	0.120		
1732.50	20175	MU	LTE Band 4 (MMS)	20	14.75	14.45	-0.04	0	Ant 2a	DLX2020BPT7G5	QPSK	50	0	0 mm	bottom	1:1	0.273	1.072	0.293	0.110	0.118		
1732.50	20175	MU	LTE Band 4 (MMS)	20	14.75	14.38	-0.07	0	Ant 2a	DLX2020BPT7G5	QPSK	1	0	0 mm	right	1:1	0.752	1.094	0.823	0.394	0.333		
1732.50	20175	MU	LTE Band 4 (MMS)	20	14.75	14.45	-0.09	0	Ant 2a	DLX2020BPT7G5	QPSK	50	0	0 mm	right	1:1	0.749	1.072	0.789	0.390	0.322		
1732.50	20175	MU	LTE Band 4 (MMS)	20	14.75	14.35	-0.01	0	Ant 2a	DLX2020BPT7G5	QPSK	100	0	0 mm	right	1:1	0.559	1.096	0.662	0.250	0.274		
1732.50	20175	MU	LTE Band 4 (MMS)	20	11.75	11.38	-0.03	0	Ant 2a	DLX2020BPT7G5	QPSK	1	50	0 mm	right	1:1	0.360	1.089	0.392	0.143	0.156		
1732.50	20175	MU	LTE Band 4 (MMS)	20	11.75	11.41	-0.03	0	Ant 2a	DLX2020BPT7G5	QPSK	50	0	0 mm	right	1:1	0.364	1.081	0.393	0.144	0.156		
1732.50	20175	MU	LTE Band 4 (MMS)	20	14.75	14.36	-0.01	0	Ant 2a	DLX2020BPT7G5	QPSK	1	0	0 mm	left	1:1	0.001	1.094	0.001	0.000	0.000		
1732.50	20175	MU	LTE Band 4 (MMS)	20	14.75	14.46	-0.17	0	Ant 2a	DLX2020BPT7G5	QPSK	50	0	0 mm	left	1:1	0.001	1.072	0.001	0.000	0.000		
UNCLASSIFIED / IEEE C95.1 1992 - SAFETY LIMIT																Body 1.6 W/kg (averaging)							
Annoyed / IEEE C95.1 1992 - General Population																averaging over 1 gram							

Table 10-26
LTE Band 4 Ant 2b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Ch [dB]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [2g]	Scaling Factor	Reported SAR [2g]	SAR [2g]	Reported SAR [2g]	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)		(W/kg)
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.9	14.50	0.01	0	Ant 2b	DLX2R026P7G5G	QPSK	1	0	0 mm	back	1:1	0.938	1.096	1.017	0.377	0.413	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.9	14.51	0.02	0	Ant 2b	DLX2R026P7G5G	QPSK	50	25	0 mm	back	1:1	0.900	1.146	1.021	0.366	0.419	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.9	14.16	0.00	0	Ant 2b	DLX2R026P7G5G	QPSK	100	0	0 mm	back	1:1	0.905	1.186	1.073	0.366	0.424	
1732.50	20175	M4	LTE Band 4 (40MS)	20	11.9	11.29	-0.10	0	Ant 2b	DLX2R026P7G5G	QPSK	1	0	0 mm	back	1:1	0.486	1.151	0.959	0.191	0.220	
1732.50	20175	M4	LTE Band 4 (40MS)	20	11.9	11.10	-0.13	0	Ant 2b	DLX2R026P7G5G	QPSK	50	0	0 mm	back	1:1	0.481	1.202	0.978	0.189	0.227	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.9	14.50	0.01	0	Ant 2b	DLX2R026P7G5G	QPSK	1	0	0 mm	top	1:1	0.001	1.096	0.001	0.001	0.001	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.9	14.31	-0.13	0	Ant 2b	DLX2R026P7G5G	QPSK	50	25	0 mm	top	1:1	0.001	1.146	0.001	0.001	0.001	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.9	14.50	0.08	0	Ant 2b	DLX2R026P7G5G	QPSK	1	0	0 mm	bottom	1:1	0.585	1.096	0.641	0.234	0.256	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.9	14.31	-0.02	0	Ant 2b	DLX2R026P7G5G	QPSK	50	25	0 mm	bottom	1:1	0.584	1.146	0.669	0.233	0.267	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.9	14.50	0.03	0	Ant 2b	DLX2R026P7G5G	QPSK	1	0	0 mm	right	1:1	0.043	1.096	0.047	0.018	0.020	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.9	14.31	-0.10	0	Ant 2b	DLX2R026P7G5G	QPSK	50	25	0 mm	right	1:1	0.041	1.146	0.047	0.018	0.021	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.9	14.50	-0.18	0	Ant 2b	DLX2R026P7G5G	QPSK	1	0	0 mm	left	1:1	0.009	1.096	0.010	0.004	0.004	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.9	14.31	-0.04	0	Ant 2b	DLX2R026P7G5G	QPSK	50	25	0 mm	left	1:1	0.008	1.146	0.009	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 10-27
LTE Band 4 Ant 4a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power D/B [dB]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [2g]	Scaling Factor	Reported SAR [2g]	SAR [2g]	Reported SAR [2g]	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)		(W/kg)
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	14.43	0.01	0	Ant 4a	DLX2R007F7H49	QPSK	1	0	0 mm	back	1:1	0.962	1.016	0.977	0.440	0.447	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	14.44	0.01	0	Ant 4a	DLX2R007F7H49	QPSK	50	0	0 mm	back	1:1	0.993	1.014	1.007	0.455	0.461	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	14.42	0.01	0	Ant 4a	DLX2R007F7H49	QPSK	100	0	0 mm	back	1:1	0.996	1.019	1.015	0.454	0.463	
1732.50	20175	M4	LTE Band 4 (40MS)	20	11.5	11.49	0.01	0	Ant 4a	DLX2R007F7H49	QPSK	1	0	0 mm	back	1:1	0.434	1.002	0.435	0.209	0.209	
1732.50	20175	M4	LTE Band 4 (40MS)	20	11.5	11.34	-0.14	0	Ant 4a	DLX2R007F7H49	QPSK	50	0	0 mm	back	1:1	0.451	1.038	0.468	0.217	0.225	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	14.43	-0.06	0	Ant 4a	DLX2R007F7H49	QPSK	1	0	0 mm	top	1:1	0.244	1.016	0.248	0.093	0.094	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	14.44	-0.11	0	Ant 4a	DLX2R007F7H49	QPSK	50	0	0 mm	top	1:1	0.250	1.014	0.254	0.094	0.095	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	14.43	-0.19	0	Ant 4a	DLX2R007F7H49	QPSK	1	0	0 mm	bottom	1:1	0.013	1.016	0.013	0.006	0.006	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	14.44	-0.08	0	Ant 4a	DLX2R007F7H49	QPSK	50	0	0 mm	bottom	1:1	0.014	1.014	0.014	0.006	0.006	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	14.43	0.00	0	Ant 4a	DLX2R007F7H49	QPSK	1	0	0 mm	right	1:1	0.000	1.016	0.000	0.000	0.000	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	14.44	0.00	0	Ant 4a	DLX2R007F7H49	QPSK	50	0	0 mm	right	1:1	0.000	1.014	0.000	0.000	0.000	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	14.43	0.17	0	Ant 4a	DLX2R007F7H49	QPSK	1	0	0 mm	left	1:1	0.566	1.016	0.575	0.245	0.249	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	14.44	0.14	0	Ant 4a	DLX2R007F7H49	QPSK	50	0	0 mm	left	1:1	0.585	1.014	0.593	0.251	0.255	
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 10-28
LTE Band 4 Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Ch [dB]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [2g]	Scaling Factor	Reported SAR [2g]	SAR [2g]	Reported SAR [2g]	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)		(W/kg)
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	13.95	0.01	0	Ant 4b	DLX2R007F7H49	QPSK	1	99	0 mm	back	1:1	0.787	1.135	0.893	0.332	0.377	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	13.86	0.02	0	Ant 4b	DLX2R007F7H49	QPSK	50	0	0 mm	back	1:1	0.758	1.159	0.879	0.318	0.369	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	13.81	0.01	0	Ant 4b	DLX2R007F7H49	QPSK	100	0	0 mm	back	1:1	0.864	1.172	1.013	0.358	0.420	
1732.50	20175	M4	LTE Band 4 (40MS)	20	11.5	11.36	-0.11	0	Ant 4b	DLX2R007F7H49	QPSK	1	0	0 mm	back	1:1	0.439	1.033	0.453	0.188	0.194	
1732.50	20175	M4	LTE Band 4 (40MS)	20	11.5	11.18	-0.17	0	Ant 4b	DLX2R007F7H49	QPSK	50	50	0 mm	back	1:1	0.428	1.076	0.461	0.183	0.197	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	13.95	0.02	0	Ant 4b	DLX2R007F7H49	QPSK	1	99	0 mm	top	1:1	0.528	1.135	0.599	0.213	0.242	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	13.86	0.03	0	Ant 4b	DLX2R007F7H49	QPSK	50	0	0 mm	top	1:1	0.522	1.159	0.605	0.210	0.243	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	13.95	0.18	0	Ant 4b	DLX2R007F7H49	QPSK	1	99	0 mm	bottom	1:1	0.002	1.135	0.002	0.001	0.001	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	13.86	0.11	0	Ant 4b	DLX2R007F7H49	QPSK	50	0	0 mm	bottom	1:1	0.002	1.159	0.002	0.001	0.001	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	13.95	0.13	0	Ant 4b	DLX2R007F7H49	QPSK	1	99	0 mm	right	1:1	0.009	1.135	0.010	0.004	0.005	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	13.86	0.20	0	Ant 4b	DLX2R007F7H49	QPSK	50	0	0 mm	right	1:1	0.010	1.159	0.012	0.005	0.006	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	13.95	0.02	0	Ant 4b	DLX2R007F7H49	QPSK	1	99	0 mm	left	1:1	0.046	1.135	0.052	0.021	0.024	
1732.50	20175	M4	LTE Band 4 (40MS)	20	14.5	13.86	0.07	0	Ant 4b	DLX2R007F7H49	QPSK	50	0	0 mm	left	1:1	0.045	1.159	0.052	0.021	0.024	
ANSI / IEEE C95.1, 1982 - SAFETY LIMIT Spatial Peak																	Body 1.6 W/kg (avg)					
Uncontrolled Exposure/General Population																	averaged over 1 gram					

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power (dBm)	MPE (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Duty Cycle	SAR (W/kg) (avg)	Scaling Factor	Reported SAR (W/kg) (avg)	Reported SAR (W/kg) (avg)	Plot #	
1745.00	13027	Low	LTE Band 66 (AWS)	20	14.75	14.40	-0.06	0	Ant 2a	DLX2R12VP7G0G	QPSK	1	0	0 mm	back	1.1	1.030	1.084	1.117	0.486	0.527
1745.00	13232	Mid	LTE Band 66 (AWS)	20	14.75	14.26	-0.03	0	Ant 2a	DLX2R12VP7G0G	QPSK	1	0	0 mm	back	1.1	0.961	1.119	1.075	0.450	0.504
1770.00	13257	High	LTE Band 66 (AWS)	20	14.75	14.39	-0.04	0	Ant 2a	DLX2R12VP7G0G	QPSK	1	99	0 mm	back	1.1	0.910	1.086	0.988	0.424	0.460
1770.00	13027	Low	LTE Band 66 (AWS)	20	14.75	14.50	0.06	0	Ant 2a	DLX2R12VP7G0G	QPSK	50	0	0 mm	back	1.1	1.020	1.059	1.080	0.462	0.510
1745.00	13322	Mid	LTE Band 66 (AWS)	20	14.75	14.24	-0.05	0	Ant 2a	DLX2R12VP7G0G	QPSK	50	0	0 mm	back	1.1	0.944	1.125	1.062	0.439	0.494
1770.00	13257	High	LTE Band 66 (AWS)	20	14.75	14.18	-0.07	0	Ant 2a	DLX2R12VP7G0G	QPSK	50	0	0 mm	back	1.1	0.918	1.140	1.047	0.427	0.487
1770.00	13027	Low	LTE Band 66 (AWS)	20	14.75	14.38	-0.13	0	Ant 2a	DLX2R12VP7G0G	QPSK	100	0	0 mm	back	1.1	1.000	1.089	1.089	0.474	0.518
1770.00	13027	Low	LTE Band 66 (AWS)	20	11.75	11.35	-0.01	0	Ant 2a	DLX2R12VP7G0G	QPSK	1	50	0 mm	back	1.1	0.422	0.596	0.643	0.196	0.215
1770.00	13027	Low	LTE Band 66 (AWS)	20	11.75	11.42	0.00	0	Ant 2a	DLX2R12VP7G0G	QPSK	50	0	0 mm	back	1.1	0.436	1.079	0.466	0.197	0.213
1728.00	13027	Low	LTE Band 66 (AWS)	20	14.75	14.40	0.17	0	Ant 2a	DLX2R12VP7G0G	QPSK	1	0	0 mm	top	1.1	0.909	1.084	0.910	0.504	0.504
1770.00	13027	Low	LTE Band 66 (AWS)	20	14.75	14.50	0.11	0	Ant 2a	DLX2R12VP7G0G	QPSK	50	0	0 mm	top	1.1	0.910	1.059	0.911	0.505	0.505
1720.00	13027	Low	LTE Band 66 (AWS)	20	14.75	14.40	0.03	0	Ant 2a	DLX2R12VP7G0G	QPSK	1	0	0 mm	bottom	1.1	0.247	1.084	0.268	0.097	0.105
1770.00	13027	Low	LTE Band 66 (AWS)	20	14.75	14.50	0.04	0	Ant 2a	DLX2R12VP7G0G	QPSK	50	0	0 mm	bottom	1.1	0.251	1.059	0.266	0.098	0.104
1770.00	13027	Low	LTE Band 66 (AWS)	20	14.75	14.40	-0.03	0	Ant 2a	DLX2R12VP7G0G	QPSK	1	0	0 mm	right	1.1	0.774	1.084	0.839	0.311	0.337
1745.00	13322	Mid	LTE Band 66 (AWS)	20	14.75	14.26	-0.01	0	Ant 2a	DLX2R12VP7G0G	QPSK	1	0	0 mm	right	1.1	0.618	1.119	0.620	0.250	0.283
1770.00	13257	High	LTE Band 66 (AWS)	20	14.75	14.39	-0.06	0	Ant 2a	DLX2R12VP7G0G	QPSK	1	99	0 mm	right	1.1	0.687	1.086	0.746	0.278	0.302
1728.00	13027	Low	LTE Band 66 (AWS)	20	14.75	14.50	0.03	0	Ant 2a	DLX2R12VP7G0G	QPSK	50	0	0 mm	right	1.1	0.788	1.059	0.834	0.315	0.334
1745.00	13322	Mid	LTE Band 66 (AWS)	20	14.75	14.24	-0.03	0	Ant 2a	DLX2R12VP7G0G	QPSK	50	0	0 mm	right	1.1	0.617	1.125	0.684	0.251	0.282
1770.00	13257	High	LTE Band 66 (AWS)	20	14.75	14.18	-0.02	0	Ant 2a	DLX2R12VP7G0G	QPSK	50	0	0 mm	right	1.1	0.650	1.140	0.714	0.262	0.299
1770.00	13027	Low	LTE Band 66 (AWS)	20</																	

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Out (dBm)	MPH (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scanning Factor	Reported SAR (1g) (mW/kg)	SAR (10g) (mW/kg)	Reported SAR (10g) (mW/kg)	Plot #
MHz	Ch.																				
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.50	-0.02	0	Ant 2b	DLX2R02VP7G0Q	QPSK	1	50	0 mm	back	1.1	0.932	1.096	1.023	0.979	0.415
1745.00	133320	Mid	LTE Band 66 (AWS)	20	14.9	14.50	0.01	0	Ant 2b	DLX2R02VP7G0Q	QPSK	1	0	0 mm	back	1.1	0.934	1.176	1.074	0.971	0.436
1770.00	132072	High	LTE Band 66 (AWS)	20	14.9	14.50	0.02	0	Ant 2b	DLX2R02VP7G0Q	QPSK	1	99	0 mm	back	1.1	0.940	1.161	1.095	0.981	0.442
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.50	-0.01	0	Ant 2b	DLX2R02VP7G0Q	QPSK	50	25	0 mm	back	1.1	0.933	1.099	1.023	0.979	0.414
1745.00	133320	Mid	LTE Band 66 (AWS)	20	14.9	14.51	0.00	0	Ant 2b	DLX2R02VP7G0Q	QPSK	50	0	0 mm	back	1.1	0.888	1.146	1.018	0.960	0.413
1770.00	132572	High	LTE Band 66 (AWS)	20	14.9	14.19	-0.01	0	Ant 2b	DLX2R02VP7G0Q	QPSK	50	50	0 mm	back	1.1	0.915	1.178	1.078	0.988	0.434
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.48	0.00	0	Ant 2b	DLX2R02VP7G0Q	QPSK	100	0	0 mm	back	1.1	0.917	1.102	1.011	0.971	0.409
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.9	11.40	-0.05	0	Ant 2b	DLX2R02VP7G0Q	QPSK	1	50	0 mm	back	1.1	0.997	1.122	0.445	0.173	0.134
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.9	11.42	0.00	0	Ant 2b	DLX2R02VP7G0Q	QPSK	50	25	0 mm	back	1.1	0.401	1.117	0.448	0.175	0.195
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.50	0.11	0	Ant 2b	DLX2R02VP7G0Q	QPSK	1	50	0 mm	top	1.1	0.001	1.096	0.001	0.000	0.000
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.50	0.19	0	Ant 2b	DLX2R02VP7G0Q	QPSK	50	25	0 mm	top	1.1	0.001	1.096	0.001	0.001	0.001
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.50	0.24	0	Ant 2b	DLX2R02VP7G0Q	QPSK	1	50	0 mm	bottom	1.1	0.564	1.096	0.618	0.224	0.246
1730.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.50	-0.07	0	Ant 2b	DLX2R02VP7G0Q	QPSK	50	25	0 mm	bottom	1.1	0.576	1.096	0.631	0.228	0.250
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.50	0.06	0	Ant 2b	DLX2R02VP7G0Q	QPSK	1	50	0 mm	right	1.1	0.040	1.096	0.044	0.016	0.018
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.50	0.01	0	Ant 2b	DLX2R02VP7G0Q	QPSK	50	25	0 mm	right	1.1	0.040	1.096	0.044	0.016	0.018
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.50	0.18	0	Ant 2b	DLX2R02VP7G0Q	QPSK	1	50	0 mm	left	1.1	0.009	1.096	0.010	0.004	0.004
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.9	14.50	0.06	0	Ant 2b	DLX2R02VP7G0Q	QPSK	50	25	0 mm	left	1.1	0.009	1.096	0.010	0.004	0.004
ANSI / IEEE C63.1-1997 - SAFETY LIMIT																Body					
Spatial Peak																1.6 W/kg (avg)					
Uncontrolled Exposure/General Population																averaged over 1 gram					

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Out (dBm)	MPE (dB)	Antenna Config.	Device Serial Number	Modulation	RB SW	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g) (mW/kg)	SAR (10g) (mW/kg)	Reported SAR (10g) (mW/kg)	Plot #
MHz	Ch.																				
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.40	0.00	0	Ant 4a	DLX2R007FW9H	QPSK	1	0	0 mm	back	1.1	0.919	1.023	0.940	0.444	0.454
1745.00	133320	Mid	LTE Band 66 (AWS)	20	14.5	14.32	0.02	0	Ant 4a	DLX2R007FW9H	QPSK	1	99	0 mm	back	1.1	0.901	1.042	0.938	0.438	0.453
1770.00	132472	High	LTE Band 66 (AWS)	20	14.5	14.22	0.00	0	Ant 4a	DLX2R007FW9H	QPSK	1	99	0 mm	back	1.1	0.901	1.067	0.961	0.439	0.462
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.49	0.01	0	Ant 4a	DLX2R007FW9H	QPSK	50	0	0 mm	back	1.1	0.911	1.002	0.913	0.439	0.440
1745.00	133320	Mid	LTE Band 66 (AWS)	20	14.5	14.23	0.02	0	Ant 4a	DLX2R007FW9H	QPSK	50	0	0 mm	back	1.1	0.911	1.064	0.969	0.439	0.467
1770.00	132572	High	LTE Band 66 (AWS)	20	14.5	14.15	0.01	0	Ant 4a	DLX2R007FW9H	QPSK	50	0	0 mm	back	1.1	0.931	1.084	1.009	0.447	0.485
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.39	0.02	0	Ant 4a	DLX2R007FW9H	QPSK	100	0	0 mm	back	1.1	0.919	1.028	0.943	0.444	0.456
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.5	11.31	0.11	0	Ant 4a	DLX2R007FW9H	QPSK	1	99	0 mm	back	1.1	0.457	1.045	0.478	0.217	0.227
1770.00	132572	High	LTE Band 66 (AWS)	20	11.5	11.14	0.17	0	Ant 4a	DLX2R007FW9H	QPSK	50	50	0 mm	back	1.1	0.456	1.086	0.495	0.217	0.236
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.40	-0.08	0	Ant 4a	DLX2R007FW9H	QPSK	1	0	0 mm	top	1.1	0.240	1.023	0.246	0.091	0.093
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.49	-0.09	0	Ant 4a	DLX2R007FW9H	QPSK	50	0	0 mm	top	1.1	0.235	1.002	0.235	0.090	0.090
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.40	-0.12	0	Ant 4a	DLX2R007FW9H	QPSK	1	0	0 mm	bottom	1.1	0.012	1.023	0.012	0.006	0.006
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.49	-0.20	0	Ant 4a	DLX2R007FW9H	QPSK	50	0	0 mm	bottom	1.1	0.012	1.002	0.012	0.006	0.006
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.49	0.00	0	Ant 4a	DLX2R007FW9H	QPSK	1	0	0 mm	right	1.1	0.000	1.023	0.000	0.000	0.000
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.49	0.00	0	Ant 4a	DLX2R007FW9H	QPSK	50	0	0 mm	right	1.1	0.000	1.002	0.000	0.000	0.000
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.49	0.01	0	Ant 4a	DLX2R007FW9H	QPSK	1	0	0 mm	left	1.1	0.768	1.023	0.788	0.309	0.316
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.5	14.49	0.02	0	Ant 4a	DLX2R007FW9H	QPSK	50	0	0 mm	left	1.1	0.757	1.002	0.759	0.304	0.305
ANSI / IEEE C63.1-1997 - SAFETY LIMIT																					
Spatial Peak																					
1.6 W/kg (mW/kg)																					
Body																					
1.6 W/kg (mW/kg)																					
Uncontrolled Exposure/General Population																					
averaged over 1 gram																					

REV 21.4 M
09/11/2019

Table 10-32
LTE Band 66 Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power DnB [dB]	MPE [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 (AWG)	20	14.5	14.01	0.04	0	Ant 4b	DLX2R66LPT0G	QPSK	1	0	0 mm	back	1:1	0.827	1.119	0.925	0.352	0.384	
1745.00	132322	Mid	LTE Band 66 (AWG)	20	14.5	13.77	0.01	0	Ant 4b	DLX2R66LPT0G	QPSK	1	50	0 mm	back	1:1	0.756	1.183	0.905	0.325	0.384	
1770.00	132572	High	LTE Band 66 (AWG)	20	14.5	13.88	0.03	0	Ant 4b	DLX2R66LPT0G	QPSK	1	99	0 mm	back	1:1	0.738	1.208	0.892	0.313	0.378	
1720.00	132072	Low	LTE Band 66 (AWG)	20	14.5	13.80	0.06	0	Ant 4b	DLX2R66LPT0G	QPSK	50	0	0 mm	back	1:1	0.819	1.175	0.962	0.324	0.392	
1745.00	132322	Mid	LTE Band 66 (AWG)	20	14.5	13.78	0.02	0	Ant 4b	DLX2R66LPT0G	QPSK	50	25	0 mm	back	1:1	0.763	1.180	0.900	0.323	0.381	
1770.00	132572	High	LTE Band 66 (AWG)	20	14.5	13.69	0.02	0	Ant 4b	DLX2R66LPT0G	QPSK	50	25	0 mm	back	1:1	0.712	1.205	0.858	0.302	0.364	
1745.00	132322	Mid	LTE Band 66 (AWG)	20	14.5	13.77	0.01	0	Ant 4b	DLX2R66LPT0G	QPSK	100	0	0 mm	back	1:1	0.759	1.183	0.898	0.322	0.381	
1745.00	132322	Mid	LTE Band 66 (AWG)	20	11.5	11.50	-0.11	0	Ant 4b	DLX2R66LPT0G	QPSK	1	99	0 mm	back	1:1	0.410	1.000	0.410	0.174	0.174	
1745.00	132322	Mid	LTE Band 66 (AWG)	20	11.5	11.50	-0.15	0	Ant 4b	DLX2R66LPT0G	QPSK	50	0	0 mm	back	1:1	0.436	1.000	0.436	0.185	0.185	
1720.00	132072	Low	LTE Band 66 (AWG)	20	14.5	14.01	-0.02	0	Ant 4b	DLX2R66LPT0G	QPSK	1	0	0 mm	top	1:1	0.467	1.119	0.523	0.189	0.211	
1720.00	132072	Low	LTE Band 66 (AWG)	20	14.5	13.80	-0.01	0	Ant 4b	DLX2R66LPT0G	QPSK	50	0	0 mm	top	1:1	0.461	1.175	0.542	0.186	0.219	
1720.00	132072	Low	LTE Band 66 (AWG)	20	14.5	14.01	-0.18	0	Ant 4b	DLX2R66LPT0G	QPSK	1	0	0 mm	bottom	1:1	0.002	1.119	0.002	0.001	0.001	
1720.00	132072	Low	LTE Band 66 (AWG)	20	14.5	13.80	-0.15	0	Ant 4b	DLX2R66LPT0G	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 (AWG)	20	14.5	14.01	0.14	0	Ant 4b	DLX2R66LPT0G	QPSK	1	0	0 mm	right	1:1	0.009	1.119	0.010	0.005	0.006	
1720.00	132072	Low	LTE Band 66 (AWG)	20	14.5	13.80	0.18	0	Ant 4b	DLX2R66LPT0G	QPSK	50	0	0 mm	right	1:1	0.008	1.175	0.009	0.004	0.005	
1720.00	132072	Low	LTE Band 66 (AWG)	20	14.5	14.01	0.09	0	Ant 4b	DLX2R66LPT0G	QPSK	1	0	0 mm	left	1:1	0.042	1.119	0.047	0.018	0.020	
1720.00	132072	Low	LTE Band 66 (AWG)	20	14.5	13.80	0.15	0	Ant 4b	DLX2R66LPT0G	QPSK	50	0	0 mm	left	1:1	0.040	1.175	0.047	0.017	0.020	
ANSI / IEEE C63.1.1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																						
															Body							
															1.6 W/kg (mW/g)							
															averaged over 1 gram							

Table 10-33
LTE Band 2 Ant 2a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power DUT[dBm]	MPE [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)			
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.1	14.86	-0.05	0	Ant 2a	DLX2R63SP70G	QPSK	1	50	0 mm	back	1:1	0.950	1.057	1.004	0.450	0.476	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	14.93	0.00	0	Ant 2a	DLX2R63SP70G	QPSK	1	50	0 mm	back	1:1	0.925	1.040	0.962	0.435	0.452	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.10	0.00	0	Ant 2a	DLX2R63SP70G	QPSK	1	50	0 mm	back	1:1	0.930	1.000	0.930	0.435	0.435	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.1	14.87	0.02	0	Ant 2a	DLX2R63SP70G	QPSK	50	25	0 mm	back	1:1	0.959	1.054	1.011	0.452	0.476	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	14.97	-0.04	0	Ant 2a	DLX2R63SP70G	QPSK	50	0	0 mm	back	1:1	0.933	1.030	0.961	0.438	0.451	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.06	0.01	0	Ant 2a	DLX2R63SP70G	QPSK	50	25	0 mm	back	1:1	0.935	1.009	0.943	0.435	0.439	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.00	0.02	0	Ant 2a	DLX2R63SP70G	QPSK	100	0	0 mm	back	1:1	0.944	1.023	0.966	0.441	0.451	
1900.00	19100	High	LTE Band 2 (PCS)	20	12.1	12.01	0.01	0	Ant 2a	DLX2R63SP70G	QPSK	1	99	0 mm	back	1:1	0.480	1.021	0.480	0.223	0.228	
1900.00	19100	High	LTE Band 2 (PCS)	20	12.1	11.83	-0.02	0	Ant 2a	DLX2R63SP70G	QPSK	50	25	0 mm	back	1:1	0.464	1.064	0.464	0.215	0.229	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.10	0.15	0	Ant 2a	DLX2R63SP70G	QPSK	1	50	0 mm	top	1:1	0.017	1.000	0.017	0.008	0.008	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.06	-0.01	0	Ant 2a	DLX2R63SP70G	QPSK	50	25	0 mm	top	1:1	0.018	1.009	0.018	0.008	0.008	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.10	-0.05	0	Ant 2a	DLX2R63SP70G	QPSK	1	50	0 mm	bottom	1:1	0.331	1.000	0.331	0.124	0.124	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.06	0.00	0	Ant 2a	DLX2R63SP70G	QPSK	50	25	0 mm	bottom	1:1	0.330	1.009	0.333	0.123	0.124	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.1	14.86	0.00	0	Ant 2a	DLX2R63SP70G	QPSK	1	50	0 mm	right	1:1	0.851	1.057	0.900	0.341	0.360	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	14.93	0.00	0	Ant 2a	DLX2R63SP70G	QPSK	1	50	0 mm	right	1:1	0.850	1.040	0.884	0.338	0.352	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.10	-0.01	0	Ant 2a	DLX2R63SP70G	QPSK	1	50	0 mm	right	1:1	0.807	1.000	0.807	0.318	0.318	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.1	14.87	0.05	0	Ant 2a	DLX2R63SP70G	QPSK	50	25	0 mm	right	1:1	0.851	1.054	0.897	0.339	0.357	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	15.1	14.97	0.02	0	Ant 2a	DLX2R63SP70G	QPSK	50	0	0 mm	right	1:1	0.851	1.030	0.877	0.338	0.348	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.06	0.02	0	Ant 2a	DLX2R63SP70G	QPSK	50	25	0 mm	right	1:1	0.809	1.009	0.816	0.317	0.320	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.00	0.02	0	Ant 2a	DLX2R63SP70G	QPSK	100	0	0 mm	right	1:1	0.812	1.023	0.831	0.318	0.325	
1900.00	19100	High	LTE Band 2 (PCS)	20	12.1	12.01	0.05	0	Ant 2a	DLX2R63SP70G	QPSK	1	99	0 mm	right	1:1	0.393	1.021	0.401	0.153	0.156	
1900.00	19100	High	LTE Band 2 (PCS)	20	12.1	11.83	0.01	0	Ant 2a	DLX2R63SP70G	QPSK	50	25	0 mm	right	1:1	0.391	1.064	0.416	0.152	0.162	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.10	0.12	0	Ant 2a	DLX2R63SP70G	QPSK	1	50	0 mm	left	1:1	0.003	1.000	0.003	0.001	0.001	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.1	15.06	0.15	0	Ant 2a	DLX2R63SP70G	QPSK	50	25	0 mm	left	1:1	0.001	1.009	0.001	0.001	0.001	
ANSI / IEEE C63.1.1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																						
Body																						
1.6 W/kg (mW/g)																						
averaged over 1 gram																						

Table 10-34
LTE Band 2 Ant 2b Body SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Spill [dBm]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [1g]</

Table 10-35
LTE Band 2 Ant 4a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Shift [dB]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Plot #	
MHz	Ch.															SAR [W/kg]						
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.9	14.53	-0.01	0	Ant 4a	DLX2R033P70GG	QPSK	1	0	0 mm	back	1:1	1.010	1.089	1.100	0.511	0.556	
1860.00	18900	Mid	LTE Band 2 (PCS)	20	14.9	14.71	-0.00	0	Ant 4a	DLX2R033P70GG	QPSK	1	50	0 mm	back	1:1	1.030	1.045	1.076	0.494	0.516	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.90	-0.12	0	Ant 4a	DLX2R033P70GG	QPSK	1	50	0 mm	back	1:1	1.040	1.000	1.040	0.521	0.521	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.9	14.55	-0.01	0	Ant 4a	DLX2R033P70GG	QPSK	50	0	0 mm	back	1:1	1.010	1.084	1.095	0.486	0.527	
1860.00	18900	Mid	LTE Band 2 (PCS)	20	14.9	14.53	-0.01	0	Ant 4a	DLX2R033P70GG	QPSK	50	25	0 mm	back	1:1	0.990	1.089	1.078	0.497	0.541	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.71	-0.01	0	Ant 4a	DLX2R033P70GG	QPSK	50	25	0 mm	back	1:1	1.030	1.045	1.076	0.515	0.538	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.70	0.02	0	Ant 4a	DLX2R033P70GG	QPSK	100	0	0 mm	back	1:1	1.040	1.047	1.089	0.518	0.542	A12
1900.00	19100	High	LTE Band 2 (PCS)	20	11.9	11.77	0.05	0	Ant 4a	DLX2R033P70GG	QPSK	1	99	0 mm	back	1:1	0.563	1.030	0.580	0.265	0.273	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.9	11.66	0.01	0	Ant 4a	DLX2R033P70GG	QPSK	50	50	0 mm	back	1:1	0.541	1.057	0.572	0.254	0.268	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.90	0.03	0	Ant 4a	DLX2R033P70GG	QPSK	1	50	0 mm	top	1:1	0.356	1.000	0.356	0.140	0.140	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.71	0.02	0	Ant 4a	DLX2R033P70GG	QPSK	50	25	0 mm	top	1:1	0.356	1.045	0.372	0.139	0.145	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.90	0.18	0	Ant 4a	DLX2R033P70GG	QPSK	1	50	0 mm	bottom	1:1	0.002	1.000	0.002	0.007	0.007	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.71	-0.06	0	Ant 4a	DLX2R033P70GG	QPSK	50	25	0 mm	bottom	1:1	0.015	1.045	0.016	0.007	0.007	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.90	-0.16	0	Ant 4a	DLX2R033P70GG	QPSK	1	50	0 mm	right	1:1	0.001	1.000	0.001	0.001	0.001	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.71	0.20	0	Ant 4a	DLX2R033P70GG	QPSK	50	25	0 mm	right	1:1	0.001	1.045	0.001	0.000	0.000	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.9	14.53	0.00	0	Ant 4a	DLX2R033P70GG	QPSK	1	0	0 mm	left	1:1	0.917	1.089	0.999	0.385	0.397	
1860.00	18900	Mid	LTE Band 2 (PCS)	20	14.9	14.71	-0.02	0	Ant 4a	DLX2R033P70GG	QPSK	1	50	0 mm	left	1:1	0.894	1.045	0.934	0.354	0.370	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.90	0.02	0	Ant 4a	DLX2R033P70GG	QPSK	1	50	0 mm	left	1:1	0.978	1.000	0.978	0.386	0.386	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.9	14.55	0.00	0	Ant 4a	DLX2R033P70GG	QPSK	50	0	0 mm	left	1:1	0.862	1.084	0.934	0.342	0.371	
1860.00	18900	Mid	LTE Band 2 (PCS)	20	14.9	14.53	0.01	0	Ant 4a	DLX2R033P70GG	QPSK	50	25	0 mm	left	1:1	0.905	1.089	0.886	0.357	0.389	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.71	-0.01	0	Ant 4a	DLX2R033P70GG	QPSK	50	25	0 mm	left	1:1	0.980	1.045	1.024	0.380	0.397	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.9	14.70	0.07	0	Ant 4a	DLX2R033P70GG	QPSK	100	0	0 mm	left	1:1	0.979	1.047	1.025	0.381	0.399	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.9	11.77	-0.16	0	Ant 4a	DLX2R033P70GG	QPSK	1	99	0 mm	left	1:1	0.475	1.030	0.489	0.187	0.193	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.9	11.66	0.04	0	Ant 4a	DLX2R033P70GG	QPSK	50	50	0 mm	left	1:1	0.471	1.057	0.498	0.183	0.193	
ANSI / IEEE C63.1.1992 - SAFETY LIMIT																	Body					
Spatial Peak																	1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 1 gram					

Table 10-36
LTE Band 2 Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Shift [dB]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.78	-0.01	0	Ant 4b	DLX2R033P70GG	QPSK	1	50	0 mm	back	1:1	0.890	1.236	1.100	0.375	0.464	
1860.00	18900	Mid	LTE Band 2 (PCS)	20	14.7	13.78	-0.01	0	Ant 4b	DLX2R033P70GG	QPSK	1	0	0 mm	back	1:1	0.851	1.236	1.052	0.357	0.441	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	14.00	0.00	0	Ant 4b	DLX2R033P70GG	QPSK	1	99	0 mm	back	1:1	0.834	1.175	0.980	0.348	0.409	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.7	13.81	-0.01	0	Ant 4b	DLX2R033P70GG	QPSK	50	0	0 mm	back	1:1	0.873	1.227	1.071	0.366	0.449	
1860.00	18900	Mid	LTE Band 2 (PCS)	20	14.7	13.83	-0.02	0	Ant 4b	DLX2R033P70GG	QPSK	50	50	0 mm	back	1:1	0.829	1.222	1.013	0.347	0.424	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	13.92	-0.01	0	Ant 4b	DLX2R033P70GG	QPSK	50	50	0 mm	back	1:1	0.834	1.197	0.998	0.348	0.417	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	13.87	0.03	0	Ant 4b	DLX2R033P70GG	QPSK	100	0	0 mm	back	1:1	0.846	1.211	1.025	0.353	0.427	
1900.00	18900	Mid	LTE Band 2 (PCS)	20	11.7	11.41	-0.14	0	Ant 4b	DLX2R033P70GG	QPSK	1	99	0 mm	back	1:1	0.460	1.069	0.492	0.199	0.213	
1860.00	18900	Mid	LTE Band 2 (PCS)	20	11.7	11.32	-0.11	0	Ant 4b	DLX2R033P70GG	QPSK	50	50	0 mm	back	1:1	0.449	1.091	0.490	0.192	0.209	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	14.00	0.02	0	Ant 4b	DLX2R033P70GG	QPSK	1	99	0 mm	top	1:1	0.505	1.175	0.899	0.238	0.260	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	13.92	-0.08	0	Ant 4b	DLX2R033P70GG	QPSK	50	50	0 mm	top	1:1	0.581	1.197	0.895	0.233	0.279	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	14.00	0.14	0	Ant 4b	DLX2R033P70GG	QPSK	1	99	0 mm	bottom	1:1	0.002	1.175	0.002	0.001	0.001	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	13.92	0.20	0	Ant 4b	DLX2R033P70GG	QPSK	50	50	0 mm	bottom	1:1	0.002	1.197	0.002	0.001	0.001	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	14.00	0.17	0	Ant 4b	DLX2R033P70GG	QPSK	1	99	0 mm	right	1:1	0.008	1.175	0.009	0.004	0.005	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	13.92	0.13	0	Ant 4b	DLX2R033P70GG	QPSK	50	50	0 mm	right	1:1	0.010	1.197	0.012	0.005	0.006	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	14.00	-0.06	0	Ant 4b	DLX2R033P70GG	QPSK	1	99	0 mm	left	1:1	0.046	1.175	0.054	0.020	0.024	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.7	13.92	-0.08	0	Ant 4b	DLX2R033P70GG	QPSK	50	50	0 mm	left	1:1	0.043	1.197	0.051	0.018	0.022	
ANSI / IEEE C63.1.1992 - SAFETY LIMIT																	Body					
Spatial Peak																	1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 1 gram					

Table 10-37
LTE Band 25 Ant 2a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Shift [dB]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.1	14.80	-0.06	0	Ant 2a	DLX2R026P70GG	QPSK	1	50	0 mm	back	1:1	0.941	1.072	1.009	0.465	0.488
1862.50	26365	Mid	LTE Band 25 (PCS)	20	15.1	14.67	-0.18	0	Ant 2a	DLX2R026P70GG	QPSK	1	0	0 mm	back	1:1	0.922	1.104	1.018	0.446	0.492
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	14.79	-0.19	0	Ant 2a	DLX2R026P70GG	QPSK	1	99	0 mm	back	1:1	0.947	1.074	0.910	0.402	0.432
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.1	14.64	-0.16	0	Ant 2a	DLX2R026P70GG	QPSK	50	0	0 mm	back	1:1	0.947	1.112	1.053	0.456	0.507
1862.50	26365	Mid	LTE Band 25 (PCS)	20	15.1	14.71	-0.15	0	Ant 2a	DLX2R026P70GG	QPSK	50	25	0 mm	back	1:1	0.986	1.094	0.947	0.418	0.457
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	14.77	-0.12	0	Ant 2a	DLX2R026P70GG	QPSK	50	0	0 mm	back	1:1	0.876	1.079	0.945	0.421	0.454
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	14.70	-0.07	0	Ant 2a	DLX2R026P70GG	QPSK	100	0	0 mm	back	1:1	0.891	1.096	0.977	0.408	0.469
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.1	14.80	-0.13	0	Ant 2a	DLX2R026P70GG	QPSK	1	50	0 mm	top	1:1	0.920	1.072	0.821	0.610	0.611
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	14.77	-0.16	0	Ant 2a	DLX2R026P70GG	QPSK	50	0	0 mm	top	1:1	0.916	1.079	0.917	0.907	0.908
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.1	14.86	-0.05	0	Ant 2a	DLX2R026P70GG	QPSK	1	50	0 mm	bottom	1:1	0.936	1.072	0.980	0.125	0.134
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	14.77	-0.01	0	Ant 2a	DLX2R026P70GG	QPSK	50	0	0 mm	bottom	1:1	0.926	1.079	0.959	0.221	0.231
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.1	14.80	0.00	0	Ant 2a	DLX2R026P70GG	QPSK	1	50	0 mm	right	1:1	0.717	1.072	0.769	0.261	0.301
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	14.77	0.04	0	Ant 2a	DLX2R026P70GG	QPSK	50	0	0 mm	right	1:1	0.729	1.079	0.763	0.263	0.305
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.1	14.80	-0.19	0	Ant 2a	DLX2R026P70GG	QPSK	1	50	0 mm	left	1:1	0.001	1.072	0.001	0.001	0.001
1905.00	26590	High	LTE Band 25 (PCS)	20	15.1	14.77	-0.16	0	Ant 2a	DLX2R026P70GG	QPSK	50	0	0 mm	left	1:1	0.000	1.079	0.000	0.000	0.000
ANSI / IEEE C63.11-1992 - SAFETY LIMIT																Body					
Spatial Peak																16 W/kg (avg)					
Unmodulated Exposure/General Population																measured over 1 gram					

Table 10-38
LTE Band 25 Ant 2b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Plot #	
MHz	Ch.																					
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.1	13.56	0.00	0	Ant 2b	DLX2R026P70G	QPSK	1	99	0 mm	back	1:1	0.846	1.132	0.958	0.359	0.406	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.1	13.68	-0.01	0	Ant 2b	DLX2R026P70G	QPSK	1	0	0 mm	back	1:1	0.866	1.107	0.959	0.369	0.408	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.10	-0.12	0	Ant 2b	DLX2R026P70G	QPSK	1	99	0 mm	back	1:1	0.929	1.000	0.929	0.384	0.384	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.1	13.63	0.01	0	Ant 2b	DLX2R026P70G	QPSK	50	25	0 mm	back	1:1	0.869	1.114	0.968	0.370	0.412	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.1	13.64	-0.01	0	Ant 2b	DLX2R026P70G	QPSK	50	0	0 mm	back	1:1	0.842	1.112	0.936	0.358	0.398	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.05	0.04	0	Ant 2b	DLX2R026P70G	QPSK	50	50	0 mm	back	1:1	0.910	1.012	0.921	0.375	0.380	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	13.82	0.05	0	Ant 2b	DLX2R026P70G	QPSK	100	0	0 mm	back	1:1	1.090	1.067	1.163	0.435	0.464	A13
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.10	0.16	0	Ant 2b	DLX2R026P70G	QPSK	1	99	0 mm	top	1:1	0.002	1.000	0.002	0.001	0.001	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.05	0.12	0	Ant 2b	DLX2R026P70G	QPSK	50	50	0 mm	top	1:1	0.002	1.012	0.002	0.001	0.001	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.10	-0.07	0	Ant 2b	DLX2R026P70G	QPSK	1	99	0 mm	bottom	1:1	0.626	1.000	0.626	0.251	0.251	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.05	-0.07	0	Ant 2b	DLX2R026P70G	QPSK	50	50	0 mm	bottom	1:1	0.602	1.012	0.609	0.241	0.244	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.10	-0.18	0	Ant 2b	DLX2R026P70G	QPSK	1	99	0 mm	right	1:1	0.054	1.000	0.054	0.023	0.023	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.05	0.19	0	Ant 2b	DLX2R026P70G	QPSK	50	50	0 mm	right	1:1	0.051	1.012	0.052	0.021	0.021	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.10	0.17	0	Ant 2b	DLX2R026P70G	QPSK	1	99	0 mm	left	1:1	0.013	1.000	0.013	0.006	0.006	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	14.05	0.16	0	Ant 2b	DLX2R026P70G	QPSK	50	50	0 mm	left	1:1	0.011	1.012	0.011	0.005	0.005	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.1	13.82	0.06	0	Ant 2b	DLX2R026P70G	QPSK	100	0	0 mm	back	1:1	1.070	1.067	1.142	0.428	0.457	
ANSI / IEEE C63.1.1992 - SAFETY LIMIT																			Body			
Spatial Peak																			1.6 W/kg (mW/g)			
Uncontrolled Exposure/General Population																			averaged over 1 gram			

Note: Blue entry represents variability measurement.

Table 10-39
LTE Band 25 Ant 4a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]		Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Plot #	
MHz	Ch.															Scaling Factor	Scaling Factor	Scaling Factor	Scaling Factor	Scaling Factor		Plot #
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.9	14.70	-0.02	0	Ant 4a	DLX2R026P70G	QPSK	1	0	0 mm	back	1:1	0.995	1.047	1.042	0.497	0.520	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.9	14.84	-0.01	0	Ant 4a	DLX2R026P70G	QPSK	1	99	0 mm	back	1:1	0.977	1.014	0.991	0.488	0.495	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.90	0.03	0	Ant 4a	DLX2R026P70G	QPSK	1	50	0 mm	back	1:1	0.949	1.000	0.949	0.472	0.472	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.9	14.68	0.01	0	Ant 4a	DLX2R026P70G	QPSK	50	0	0 mm	back	1:1	1.030	1.052	1.084	0.474	0.499	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.9	14.80	0.00	0	Ant 4a	DLX2R026P70G	QPSK	50	0	0 mm	back	1:1	0.967	1.072	1.037	0.484	0.519	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.77	0.00	0	Ant 4a	DLX2R026P70G	QPSK	50	0	0 mm	back	1:1	1.000	1.030	1.030	0.473	0.487	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.68	0.01	0	Ant 4a	DLX2R026P70G	QPSK	100	0	0 mm	back	1:1	0.962	1.052	1.012	0.477	0.502	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.90	-0.07	0	Ant 4a	DLX2R026P70G	QPSK	1	50	0 mm	top	1:1	0.326	1.000	0.326	0.127	0.127	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.77	-0.05	0	Ant 4a	DLX2R026P70G	QPSK	50	0	0 mm	top	1:1	0.342	1.030	0.352	0.133	0.137	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.90	0.10	0	Ant 4a	DLX2R026P70G	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	14.77	0.19	0	Ant 4a	DLX2R026P70G	QPSK	50	0	0 mm	bottom	1:1	0.015	1.030	0.015	0.007	0.007	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.90	-0.18	0	Ant 4a	DLX2R026P70G	QPSK	1	50	0 mm	right	1:1	0.004	1.000	0.004	0.001	0.001	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.77	-0.02	0	Ant 4a	DLX2R026P70G	QPSK	50	0	0 mm	right	1:1	0.002	1.030	0.002	0.001	0.001	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.9	14.70	0.00	0	Ant 4a	DLX2R026P70G	QPSK	1	0	0 mm	left	1:1	0.894	1.047	0.936	0.361	0.378	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.9	14.84	-0.02	0	Ant 4a	DLX2R026P70G	QPSK	1	99	0 mm	left	1:1	0.914	1.014	0.927	0.366	0.371	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.90	-0.02	0	Ant 4a	DLX2R026P70G	QPSK	1	50	0 mm	left	1:1	0.866	1.000	0.866	0.345	0.345	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.9	14.68	0.07	0	Ant 4a	DLX2R026P70G	QPSK	50	0	0 mm	left	1:1	0.857	1.052	0.902	0.345	0.363	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.9	14.80	0.03	0	Ant 4a	DLX2R026P70G	QPSK	50	0	0 mm	left	1:1	0.899	1.072	0.964	0.360	0.386	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.77	0.10	0	Ant 4a	DLX2R026P70G	QPSK	50	0	0 mm	left	1:1	0.956	1.030	0.985	0.379	0.390	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.9	14.68	0.00	0	Ant 4a	DLX2R026P70G	QPSK	100	0	0 mm	left	1:1	0.909	1.052	0.956	0.362	0.381	
ANSI / IEEE C63.1.1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

Table 10-40
LTE Band 25 Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]		Reported SAR [W/kg]	SAR [20g]	Reported SAR [20g]	Plot #	
MHz	Ch.															Scaling Factor	Scaling Factor					
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.90	0.04	0	Ant 4b	DLX2R033P70G	QPSK	1	99	0 mm	back	1:1	0.779	1.202	0.936	0.332	0.399	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.7	13.73	-0.01	0	Ant 4b	DLX2R033P70G	QPSK	1	50	0 mm	back	1:1	0.762	1.250	0.953	0.326	0.408	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	14.00	0.02	0	Ant 4b	DLX2R033P70G	QPSK	1	99	0 mm	back	1:1	0.794	1.175	0.933	0.326	0.394	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.7	13.87	0.00	0	Ant 4b	DLX2R033P70G	QPSK	50	25	0 mm	back	1:1	0.801	1.211	0.970	0.341	0.413	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.7	13.87	0.00	0	Ant 4b	DLX2R033P70G	QPSK	50	25	0 mm	back	1:1	0.762	1.211	0.923	0.326	0.395	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.96	0.00	0	Ant 4b	DLX2R033P70G	QPSK	50	50	0 mm	back	1:1	0.768	1.186	0.911	0.324	0.384	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.95	0.03	0	Ant 4b	DLX2R033P70G	QPSK	100	0	0 mm	back	1:1	0.768	1.189	0.913	0.327	0.389	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	14.00	-0.02	0	Ant 4b	DLX2R033P70G	QPSK	1	99	0 mm	top	1:1	0.670	1.175	0.787	0.263	0.309	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.96	-0.02	0	Ant 4b	DLX2R033P70G	QPSK	50	50	0 mm	top	1:1	0.634	1.186	0.752	0.250	0.297	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	14.00	-0.12	0	Ant 4b	DLX2R033P70G	QPSK	1	99	0 mm	bottom	1:1	0.690	1.175	0.800	0.300	0.300	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.96	0.07	0	Ant 4b	DLX2R033P70G	QPSK	50	50	0 mm	bottom	1:1	0.600	1.186	0.820	0.300	0.304	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	14.00	0.17	0	Ant 4b	DLX2R033P70G	QPSK	1	99	0 mm	right	1:1	0.801	1.175	0.913	0.303	0.304	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.95	-0.11	0	Ant 4b	DLX2R033P70G	QPSK	50	50	0 mm	right	1:1	0.698	1.186	0.909	0.303	0.304	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	14.00	-0.13	0	Ant 4b	DLX2R033P70G	QPSK	1	99	0 mm	left	1:1	0.646	1.175	0.854	0.300	0.304	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.7	13.96	0.14	0	Ant 4b	DLX2R033P70G	QPSK	50	50	0 mm	left	1:1	0.642	1.186	0.904	0.301	0.302	
ANSI / IEEE C63.11-1992 - SAFETY LIMIT															Body							
Spatial Peak															1.6 W/kg (avg)							
Uncontrolled Exposure/General Population															averaged over 1 gram							

LTE Band 30 Ant 2a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power D-B (dB)	MFR (dB)	Antenna Config.	Device Serial #	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (dB)	Scaling Factor	Reported SAR (dB)	SAR (20g)	Reported SAR (dB)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2310.0	27710	Md	LTE Band 30	10	13.0	12.84	-0.03	0	Ant 2a	DLXNR033P7GG	QPSK	1	49	0 mm	back	1:1	0.986	1.014	1.000	0.404	0.410
2310.0	27710	Md	LTE Band 30	10	13.0	12.98	-0.01	0	Ant 2a	DLXNR033P7GG	QPSK	25	25	0 mm	back	1:1	0.957	1.005	0.962	0.391	0.393
2310.0	27710	Md	LTE Band 30	10	13.0	12.91	-0.03	0	Ant 2a	DLXNR033P7GG	QPSK	50	0	0 mm	back	1:1	0.964	1.021	0.984	0.395	0.403
2310.0	27710	Md	LTE Band 30	10	10.0	9.71	-0.03	0	Ant 2a	DLXNR033P7GG	QPSK	1	0	0 mm	back	1:1	0.345	1.211	0.184	0.135	0.188
2310.0	27710	Md	LTE Band 30	10	10.0	9.28	-0.02	0	Ant 2a	DLXNR033P7GG	QPSK	25	12	0 mm	back	1:1	0.334	1.180	0.394	0.148	0.175
2310.0	27710	Md	LTE Band 30	10	13.0	12.84	0.14	0	Ant 2a	DLXNR033P7GG	QPSK	1	49	0 mm	top	1:1	0.013	1.014	0.013	0.007	0.007
2310.0	27710	Md	LTE Band 30	10	13.0	12.88	-0.07	0	Ant 2a	DLXNR033P7GG	QPSK	25	25	0 mm	top	1:1	0.013	1.005	0.013	0.007	0.007
2310.0	27710	Md	LTE Band 30	10	13.0	12.84	-0.02	0	Ant 2a	DLXNR033P7GG	QPSK	1	49	0 mm	bottom	1:1	0.342	1.014	0.347	0.108	0.110
2310.0	27710	Md	LTE Band 30	10	13.0	12.98	0.01	0	Ant 2a	DLXNR033P7GG	QPSK	25	25	0 mm	bottom	1:1	0.331	1.005	0.333	0.104	0.105
2310.0	27710	Md	LTE Band 30	10	13.0	12.84	0.15	0	Ant 2a	DLXNR033P7GG	QPSK	1	49	0 mm	right	1:1	0.609	1.014	0.618	0.225	0.228
2310.0	27710	Md	LTE Band 30	10	13.0	12.98	0.02	0	Ant 2a	DLXNR033P7GG	QPSK	25	25	0 mm	right	1:1	0.600	1.005	0.603	0.221	0.222
2310.0	27710	Md	LTE Band 30	10	13.0	12.84	-0.19	0	Ant 2a	DLXNR033P7GG	QPSK	1	49	0 mm	left	1:1	0.005	1.014	0.005	0.002	0.002
2310.0	27710	Md	LTE Band 30	10	13.0	12.88	0.20	0	Ant 2a	DLXNR033P7GG	QPSK	25	25	0 mm	left	1:1	0.004	1.005	0.004	0.002	0.002
ANSI / IEEE C95.1-1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (integrated)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

LTE Band 30 Ant 2b Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Allowed (dBm)	MFR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (2g)	Sealing Factor	Reported SAR (2g) (W/kg)	SAR (22g) (W/kg)	Reported SAR (22g) (W/kg)	Plot
MHz	Ch.																				
2310.0	27710	Md	LTE Band 30	10	13.4	13.39	0.04	0	Ant 2b	DLX200809P7G3	QPSK	1	49	0 mm	back	1	0.917	1.002	0.919	0.374	0.375
2310.0	27710	Md	LTE Band 30	10	13.4	13.32	-0.08	0	Ant 2b	DLX200809P7G3	QPSK	25	25	0 mm	back	1	0.985	1.019	1.004	0.381	0.378
2310.0	27710	Md	LTE Band 30	10	13.4	13.31	0.07	0	Ant 2b	DLX200809P7G3	QPSK	50	0	0 mm	back	1	0.961	1.021	0.981	0.374	0.382
2310.0	27710	Md	LTE Band 30	10	10.4	10.36	0.01	0	Ant 2b	DLX200809P7G3	QPSK	1	49	0 mm	back	1	0.475	1.009	0.479	0.183	0.185
2310.0	27710	Md	LTE Band 30	10	10.4	10.37	-0.02	0	Ant 2b	DLX200809P7G3	QPSK	25	25	0 mm	back	1	0.479	1.007	0.482	0.186	0.187
2310.0	27710	Md	LTE Band 30	10	13.4	13.39	0.05	0	Ant 2b	DLX200809P7G3	QPSK	1	49	0 mm	top	1	0.003	1.002	0.003	0.002	0.002
2310.0	27710	Md	LTE Band 30	10	13.4	13.32	0.11	0	Ant 2b	DLX200809P7G3	QPSK	25	25	0 mm	top	1	0.003	1.019	0.003	0.001	0.001
2310.0	27710	Md	LTE Band 30	10	13.4	13.39	-0.00	0	Ant 2b	DLX200809P7G3	QPSK	1	49	0 mm	bottom	1	0.090	1.002	0.091	0.213	0.213
2310.0	27710	Md	LTE Band 30	10	13.4	13.32	0.06	0	Ant 2b	DLX200809P7G3	QPSK	25	25	0 mm	bottom	1	0.802	1.019	0.813	0.215	0.219
2310.0	27710	Md	LTE Band 30	10	13.4	13.39	0.15	0	Ant 2b	DLX200809P7G3	QPSK	1	49	0 mm	right	1	0.038	1.002	0.038	0.017	0.017
2310.0	27710	Md	LTE Band 30	10	13.4	13.32	0.15	0	Ant 2b	DLX200809P7G3	QPSK	25	25	0 mm	right	1	0.039	1.019	0.040	0.017	0.017
2310.0	27710	Md	LTE Band 30	10	13.4	13.39	0.14	0	Ant 2b	DLX200809P7G3	QPSK	1	49	0 mm	left	1	0.017	1.002	0.017	0.008	0.008
2310.0	27710	Md	LTE Band 30	10	13.4	13.32	0.18	0	Ant 2b	DLX200809P7G3	QPSK	25	25	0 mm	left	1	0.018	1.019	0.018	0.008	0.008
ANSI / IEEE C63.1-1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (int'g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

LTE Band 30 Ant 4a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power D-B (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (Dg)	Scaling Factor	Reported SAR (Dg)	SAR (Dg)	Reported SAR (Dg)	Plot #
MHz	Ch.															(W)		(W)	(W)	(W)	
2310.00	27710	Md	LTE Band 30	10	13.2	12.61	0.00	0	Ant-A	DU-KN031P7GG	QPSK	1	0	0 mm	back	L1	0.884	1.146	1.013	0.375	0.421
2310.00	27710	Md	LTE Band 30	10	13.2	12.47	0.02	0	Ant-A	DU-KN031P7GG	QPSK	25	0	0 mm	back	L1	0.991	1.183	1.054	0.377	0.446
2310.00	27710	Md	LTE Band 30	10	13.2	12.29	-0.02	0	Ant-A	DU-KN031P7GG	QPSK	50	0	0 mm	back	L1	0.911	1.233	1.123	0.383	0.472
2310.00	27710	Md	LTE Band 30	10	10.2	10.04	-0.14	0	Ant-A	DU-KN031P7GG	QPSK	1	0	0 mm	back	L1	0.482	1.038	0.500	0.205	0.213
2310.00	27710	Md	LTE Band 30	10	10.2	10.14	0.00	0	Ant-A	DU-KN031P7GG	QPSK	25	0	0 mm	back	L1	0.493	1.014	0.500	0.212	0.215
2310.00	27710	Md	LTE Band 30	10	13.2	12.61	-0.17	0	Ant-A	DU-KN031P7GG	QPSK	1	0	0 mm	top	L1	0.298	1.146	0.342	0.061	0.104
2310.00	27710	Md	LTE Band 30	10	13.2	12.47	0.10	0	Ant-A	DU-KN031P7GG	QPSK	25	0	0 mm	top	L1	0.304	1.183	0.360	0.069	0.110
2310.00	27710	Md	LTE Band 30	10	13.2	12.61	0.13	0	Ant-A	DU-KN031P7GG	QPSK	1	0	0 mm	bottom	L1	0.011	1.146	0.013	0.004	0.005
2310.00	27710	Md	LTE Band 30	10	13.2	12.47	0.06	0	Ant-A	DU-KN031P7GG	QPSK	25	0	0 mm	bottom	L1	0.012	1.183	0.014	0.004	0.005
2310.00	27710	Md	LTE Band 30	10	13.2	12.61	0.00	0	Ant-A	DU-KN031P7GG	QPSK	1	0	0 mm	right	L1	0.000	1.146	0.000	0.000	0.000
2310.00	27710	Md	LTE Band 30	10	13.2	12.47	0.00	0	Ant-A	DU-KN031P7GG	QPSK	25	0	0 mm	right	L1	0.000	1.183	0.000	0.000	0.000
2310.00	27710	Md	LTE Band 30	10	13.2	12.61	0.08	0	Ant-A	DU-KN031P7GG	QPSK	1	0	0 mm	left	L1	0.673	1.146	0.771	0.257	0.295
2310.00	27710	Md	LTE Band 30	10	13.2	12.47	-0.01	0	Ant-A	DU-KN031P7GG	QPSK	25	0	0 mm	left	L1	0.684	1.183	0.786	0.252	0.298
ANSI / IEEE C63.11982 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/mq [w/mq]											
Uncontrolled Exposure/General Population										measured over 1 gram											

FCC ID: BCGA2230	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C1912170052-01-R1.BCG	Test Dates: 12/16/2019 – 01/14/2020	DUT Type: Tablet Device	Page 240 of 283

Table 10-44
LTE Band 30 Ant 4b Body SAR

MEASUREMENT RESULTS																					
FREQ/MHz		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPE [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR[W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR [W/kg] (95%)	Reported SAR [W/kg] (10%)	Pass/Fail
Min	Ch																				
2310.00	27710	MD	LTE Band 30	10	13.7	13.34	-0.10	0	Ant 4b	DLX2R001P77H9	QPSK	1	25	0 mm	back	1:1	1.060	1.086	1.151	0.399	0.433
2310.00	27710	MD	LTE Band 30	10	13.7	13.40	-0.02	0	Ant 4b	DLX2R001P77H9	QPSK	25	25	0 mm	back	1:1	1.020	1.072	1.093	0.385	0.413
2310.00	27710	MD	LTE Band 30	10	13.7	13.33	-0.04	0	Ant 4b	DLX2R001P77H9	QPSK	50	0	0 mm	back	1:1	1.090	1.089	1.187	0.405	0.441
2310.00	27710	MD	LTE Band 30	10	10.7	10.65	-0.01	0	Ant 4b	DLX2R001P77H9	QPSK	1	25	0 mm	back	1:1	0.448	1.012	0.453	0.161	0.163
2310.00	27710	MD	LTE Band 30	10	10.7	10.70	0.02	0	Ant 4b	DLX2R001P77H9	QPSK	25	25	0 mm	back	1:1	0.446	1.000	0.446	0.160	0.160
2310.00	27710	MD	LTE Band 30	10	13.7	13.34	0.10	0	Ant 4b	DLX2R001P77H9	QPSK	1	25	0 mm	top	1:1	0.490	1.086	0.532	0.174	0.189
2310.00	27710	MD	LTE Band 30	10	13.7	13.40	0.02	0	Ant 4b	DLX2R001P77H9	QPSK	25	25	0 mm	top	1:1	0.503	1.072	0.539	0.179	0.192
2310.00	27710	MD	LTE Band 30	10	13.7	13.34	0.00	0	Ant 4b	DLX2R001P77H9	QPSK	1	25	0 mm	bottom	1:1	0.000	1.086	0.000	0.000	0.000
2310.00	27710	MD	LTE Band 30	10	13.7	13.40	0.00	0	Ant 4b	DLX2R001P77H9	QPSK	25	25	0 mm	bottom	1:1	0.000	1.072	0.000	0.000	0.000
2310.00	27710	MD	LTE Band 30	10	13.7	13.34	0.00	0	Ant 4b	DLX2R001P77H9	QPSK	1	25	0 mm	right	1:1	0.017	1.086	0.018	0.005	0.005
2310.00	27710	MD	LTE Band 30	10	13.7	13.40	0.11	0	Ant 4b	DLX2R001P77H9	QPSK	25	25	0 mm	right	1:1	0.018	1.072	0.019	0.006	0.006
2310.00	27710	MD	LTE Band 30	10	13.7	13.34	0.09	0	Ant 4b	DLX2R001P77H9	QPSK	1	25	0 mm	left	1:1	0.032	1.086	0.035	0.013	0.014
2310.00	27710	MD	LTE Band 30	10	13.7	13.40	0.12	0	Ant 4b	DLX2R001P77H9	QPSK	25	25	0 mm	left	1:1	0.029	1.072	0.031	0.012	0.013
2310.00	27710	MD	LTE Band 30	10	13.7	13.33	-0.02	0	Ant 4b	DLX2R001P77H9	QPSK	50	0	0 mm	back	1:1	1.010	1.089	1.100	0.384	0.396
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (avg/Wg) averaged over 1 gram											

Note: Blue entry represents variability measurement.

Table 10-45
LTE Band 7 Ant 2a Body SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR [W/kg] (95th)	Reported SAR [W/kg]	Plot
		Mhz	Ch																				
1 CC Uplink	N/A	2510.00	20800	Low	LTE Band 7	20	12.7	11.96	-0.01	0	Ant 2a	DLX2R021P71G5	QPSK	1	0	0 mm	back	1:1	0.861	1.186	1.021	0.352	0.417
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.20	-0.05	0	Ant 2a	DLX2R021P71G5	QPSK	1	99	0 mm	back	1:1	0.848	1.122	0.951	0.351	0.384
1 CC Uplink	N/A	2590.00	21300	High	LTE Band 7	20	12.7	11.88	-0.02	0	Ant 2a	DLX2R021P71G5	QPSK	1	99	0 mm	back	1:1	0.869	1.208	1.050	0.392	0.423
1 CC Uplink	N/A	2510.00	20800	Low	LTE Band 7	20	12.7	11.91	-0.02	0	Ant 2a	DLX2R021P71G5	QPSK	50	0	0 mm	back	1:1	0.833	1.199	0.969	0.339	0.406
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.06	-0.01	0	Ant 2a	DLX2R021P71G5	QPSK	50	50	0 mm	back	1:1	0.851	1.159	0.980	0.347	0.402
1 CC Uplink	N/A	2590.00	21300	High	LTE Band 7	20	12.7	11.73	0.00	0	Ant 2a	DLX2R021P71G5	QPSK	50	0	0 mm	back	1:1	0.852	1.250	1.080	0.348	0.435
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	11.94	-0.01	0	Ant 2a	DLX2R021P71G5	QPSK	100	0	0 mm	back	1:1	0.831	1.191	0.990	0.333	0.397
1 CC Uplink	N/A	2510.00	20800	Low	LTE Band 7	20	9.7	9.09	0.01	0	Ant 2a	DLX2R021P71G5	QPSK	1	99	0 mm	back	1:1	0.486	1.151	0.559	0.198	0.228
1 CC Uplink	N/A	2510.00	20800	Low	LTE Band 7	20	9.7	9.08	0.03	0	Ant 2a	DLX2R021P71G5	QPSK	50	50	0 mm	back	1:1	0.486	1.153	0.559	0.198	0.228
2 CC Uplink	PCC	2590.00	21300	High	LTE Band 7	20	12.7	11.30	-0.01	0	Ant 2a	DLX2R021P71G5	QPSK	50	0	0 mm	back	1:1	0.775	1.360	1.070	0.321	0.443
2 CC Uplink	SCC	2540.20	21152	High	LTE Band 7	20	12.7	11.30	-0.01	0	Ant 2a	DLX2R021P71G5	QPSK	50	50	0 mm	back	1:1	0.813	1.122	0.925	0.004	0.040
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.06	-0.19	0	Ant 2a	DLX2R021P71G5	QPSK	50	50	0 mm	top	1:1	0.812	1.159	0.914	0.004	0.005
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.20	-0.01	0	Ant 2a	DLX2R021P71G5	QPSK	1	99	0 mm	bottom	1:1	0.318	1.122	0.357	0.000	0.011
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.06	-0.02	0	Ant 2a	DLX2R021P71G5	QPSK	50	50	0 mm	bottom	1:1	0.314	1.159	0.364	0.008	0.102
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.20	-0.02	0	Ant 2a	DLX2R021P71G5	QPSK	1	99	0 mm	right	1:1	0.325	1.122	0.389	0.188	0.209
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.06	0.07	0	Ant 2a	DLX2R021P71G5	QPSK	50	50	0 mm	right	1:1	0.318	1.159	0.400	0.184	0.213
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.20	0.00	0	Ant 2a	DLX2R021P71G5	QPSK	1	99	0 mm	left	1:1	0.000	1.122	0.000	0.000	0.000
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.7	12.06	0.00	0	Ant 2a	DLX2R021P71G5	QPSK	50	50	0 mm	left	1:1	0.000	1.159	0.000	0.000	0.000
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Body													
Uncontrolled Exposure/General Population										1.6 W/kg (avg/Wg)													
										averaged over 1 gram													

Table 10-46
LTE Band 7 Ant 2b Body SAR

MEASUREMENT RESULTS																							
FCC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPE [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Max [W/kg]
		Mhz	Ch																				
1 CC Uplink	N/A	2510.00	20800	Low	LTE Band 7	20	12.3	12.05	-0.01	0	Ant 2b	DLX2R021P71G5	QPSK	1	99	0 mm	back	1:1	0.916	1.059	0.951	0.351	0.351
1 CC Uplink	N/A	2510.00	21100	Mid	LTE Band 7	20	12.3	12.20	0.00	0	Ant 2b	DLX2R021P71G5	QPSK	1	99	0 mm	back	1:1	0.905	1.002	0.907	0.340	0.341
1 CC Uplink	N/A	2590.00	21300	High	LTE Band 7	20	12.3	11.77	-0.02	0	Ant 2b	DLX2R021P71G5	QPSK	1	0	0 mm	back	1:1	0.903	1.130	1.111	0.357	0.360
1 CC Uplink	N/A	2510.00	20800	Low	LTE Band 7	20	12.3	11.85	-0.02	0	Ant 2b	DLX2R021P71G5	QPSK	1	99	0 mm	back	1:1	0.902	1.109	1.089	0.340	0.377
1 CC Uplink	N/A	2510.00	20800	Low	LTE Band 7	20	12.3	12.01	-0.01	0	Ant 2b	DLX2R021P71G5	QPSK	50	50	0 mm	back	1:1	0.904	1.069	0.969	0.321	0.343
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.14	-0.02	0	Ant 2b	DLX2R021P71G5	QPSK	50	50	0 mm	back	1:1	0.902	1.038	0.969	0.336	0.349
1 CC Uplink	N/A	2590.00	21300	High	LTE Band 7	20	12.3	11.82	-0.01	0	Ant 2b	DLX2R021P71G5	QPSK	50	50	0 mm	back	1:1	0.949	1.114	1.057	0.329	0.387
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.13	0.00	0	Ant 2b	DLX2R021P71G5	QPSK	100	0	0 mm	back	1:1	0.918	1.040	0.996	0.335	0.348
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	9.3	9.30	-0.06	0	Ant 2b	DLX2R021P71G5	QPSK	1	99	0 mm	back	1:1	0.436	1.000	0.436	0.153	0.163
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	9.3	9.19	0.02	0	Ant 2b	DLX2R021P71G5	QPSK	50	50	0 mm	back	1:1	0.432	1.026	0.443	0.151	0.165
2 CC Uplink	PCC	2590.00	21300	High	LTE Band 7	20	12.3	11.59	-0.02	0	Ant 2b	DLX2R021P71G5	QPSK	1	0	0 mm	back	1:1	0.898	1.178	1.058	0.325	0.383
2 CC Uplink	SCC	2540.20	21152	High	LTE Band 7	20	12.3	11.59	-0.02	0	Ant 2b	DLX2R021P71G5	QPSK	1	99	0 mm	back	1:1	0.898	1.178	1.058	0.325	0.383
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.19	0.20	0	Ant 2b	DLX2R021P71G5	QPSK	1	99	0 mm	top	1:1	0.001	1.002	0.001	0.000	0.000
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.14	0.18	0	Ant 2b	DLX2R021P71G5	QPSK	50	50	0 mm	top	1:1	0.001	1.008	0.001	0.000	0.000
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.27	-0.19	0	Ant 2b	DLX2R021P71G5	QPSK	1	99	0 mm	back	1:1	0.907	1.002	0.908	0.339	0.356
1 CC Uplink	N/A	2550.00	21100	Mid	LTE Band 7	20	12.3	12.24	-0.02	0	Ant 2b	DLX2R021P71G5	QPSK	50	50	0 mm	bottom	1:1	0.905	1.058	0.907	0.339	0.351
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.29	-0.17	0	Ant 2b	DLX2R021P71G5	QPSK	1	99	0 mm	right	1:1	0.916	1.002	0.918	0.358	0.416
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.14	-0.18	0	Ant 2b	DLX2R021P71G5	QPSK	50	50	0 mm	right	1:1	0.926	1.038	0.936	0.351	0.416
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.29	-0.12	0	Ant 2b	DLX2R021P71G5	QPSK	1	99	0 mm	left	1:1	0.922	1.002	0.922	0.352	0.410
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.14	-0.18	0	Ant 2b	DLX2R021P71G5	QPSK	50	50	0 mm	left	1:1	0.924	1.038	0.929	0.351	0.410
ANSI / IEEE C63.10-2 - SAFETY LIMIT																		Body					
Spatial Peak																		2.6 W (avg) (power)					
Unexposed General-Care/Consumer Population																		averaged over 30 min					

Table 10-47
LTE Band 7 Ant 4a Body SAR

MEASUREMENT RESULTS																							
ACC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Power (dBm)	Constructed Power (dBm)	Power Dn1 (dB)	MPE (dB)	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Sweeping	Side	Dirly Cycle	SAR (W/kg)	Guiding Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Plot #
		F1	F2																				
1 CC Uplink	N/A	2510.00	Low	LTE Band 7	20	12.5	12.50	-0.18	0	Ant 4a	DLN02WVF002	QPSK	1	50	0	back	1	1	0.992	1.000	0.992	0.407	0.407
1 CC Uplink	N/A	2525.00	21.150	Low	LTE Band 7	20	12.5	12.39	0.04	0	Ant 4a	DLN02WVF002	QPSK	1	0	0	back	1	1.010	1.026	1.026	0.413	0.424
1 CC Uplink	N/A	2540.00	21.300	High	LTE Band 7	20	12.5	12.29	-0.14	0	Ant 4a	DLN02WVF002	QPSK	1	99	0	back	1	1.050	1.050	1.053	0.417	0.438
1 CC Uplink	N/A	2515.00	Low	LTE Band 7	20	12.5	12.46	-0.09	0	Ant 4a	DLN02WVF002	QPSK	50	50	0	back	1	1	0.999	1.009	1.008	0.407	0.411
1 CC Uplink	N/A	2535.00	21.150	Mid	LTE Band 7	20	12.5	12.34	0.00	0	Ant 4a	DLN02WVF002	QPSK	50	50	0	back	1	0.982	1.038	1.019	0.398	0.413
1 CC Uplink	N/A	2540.00	21.350	High	LTE Band 7	20	12.5	11.88	0.00	0	Ant 4a	DLN02WVF002	QPSK	50	0	0	back	1	0.980	1.139	1.136	0.411	0.476
1 CC Uplink	N/A	2540.00	21.350	High	LTE Band 7	20	12.5	11.91	0.01	0	Ant 4a	DLN02WVF002	QPSK	50	50	0	back	1	0.997	1.146	1.143	0.402	0.481
1 CC Uplink	N/A	2515.00	Low	LTE Band 7	20	12.5	12.43	0.06	0	Ant 4a	DLN02WVF002	QPSK	100	0	0	back	1	1.010	1.016	1.026	0.403	0.409	
1 CC Uplink	N/A	2535.00	21.150	Mid	LTE Band 7	20	12.5	9.42	0.13	0	Ant 4a	DLN02WVF002	QPSK	1	99	0	back	1	1.000	1.019	0.910	0.366	0.320
1 CC Uplink	N/A	2510.00	Low	LTE Band 7	20	9.5	9.41	0.18	0	Ant 4a	DLN02WVF002	QPSK	50	25	0	back	1	1	0.495	1.021	0.505	0.207	0.211
2 CC Uplink	PCC	2540.00	21.350	High	LTE Band 7	20	12.5	11.91	0.01	0	Ant 4a	DLN02WVF002	QPSK	50	0	0	back	1	0.954	1.129	1.093	0.402	0.458
2 CC Uplink	SCC	2542.00	21.152	High	LTE Band 7	20	12.5	12.50	-0.18	0	Ant 4a	DLN02WVF002	QPSK	50	50	0	back	1	0.992	1.000	0.992	0.407	0.407
1 CC Uplink	N/A	2515.00	Low	LTE Band 7	20	12.5	12.50	-0.18	0	Ant 4a	DLN02WVF002	QPSK	1	50	0	back	1	1	0.996	1.000	0.996	0.388	0.388
1 CC Uplink	N/A	2510.00	Low	LTE Band 7	20	12.5	12.46	-0.02	0	Ant 4a	DLN02WVF002	QPSK	50	0	0	back	1	1	0.916	1.009	0.918	0.381	0.382
1 CC Uplink	N/A	2510.00	Low	LTE Band 7	20	12.5	12.50	0.11	0	Ant 4a	DLN02WVF002	QPSK	1	50	0	back	1	1	0.914	1.004	0.914	0.305	0.305
1 CC Uplink	N/A	2510.00	Low	LTE Band 7	20	12.5	12.46	0.18	0	Ant 4a	DLN02WVF002	QPSK	50	50	0	back	1	1	0.916	1.009	0.916	0.304	0.304
1 CC Uplink	N/A	2510.00	Low	LTE Band 7	20	12.5	12.50	0.04	0	Ant 4a	DLN02WVF002	QPSK	1	50	0	right	1	1	0.000	1.000	0.000	0.000	0.000
1 CC Uplink	N/A	2510.00	Low	LTE Band 7	20	12.5	12.46	0.10	0	Ant 4a	DLN02WVF002	QPSK	50	50	0	right	1	1	0.000	1.009	0.000	0.000	0.000
1 CC Uplink	N/A	2510.00	Low	LTE Band 7	20	12.5	12.50	-0.03	0	Ant 4a	DLN02WVF002	QPSK	1	50	0	left	1	1	0.847	1.000	0.847	0.299	0.299
1 CC Uplink	N/A	2525.00	21.150	Mid	LTE Band 7	20	12.5	12.39	-0.05	0	Ant 4a	DLN02WVF002	QPSK	1	0	0	left	1	0.819	1.026	0.840	0.277	0.284
1 CC Uplink	N/A	2540.00	21.300	High	LTE Band 7	20	12.5	12.29	-0.14	0	Ant 4a	DLN02WVF002	QPSK	1	99	0	left	1	0.856	1.050	0.895	0.287	0.301
1 CC Uplink	N/A	2510.00	Low	LTE Band 7	20	12.5	12.46	0.10	0	Ant 4a	DLN02WVF002	QPSK	50	50	0	left	1	0.859	1.009	0.861	0.293	0.296	
1 CC Uplink	N/A	2525.00	21.150	Mid	LTE Band 7	20	12.5	12.34	-0.04	0	Ant 4a	DLN02WVF002	QPSK	50	50	0	left	1	0.857	1.038	0.890	0.289	0.300
1 CC Uplink	N/A	2540.00	21.350	High	LTE Band 7	20	12.5	11.91	-0.14	0	Ant 4a	DLN02WVF002	QPSK	50	50	0	left	1	0.805	1.146	0.923	0.279	0.309
1 CC Uplink	N/A	2510.00	Low	LTE Band 7	20	12.5	12.43	-0.12	0	Ant 4a	DLN02WVF002	QPSK	100	0	0	left	1	1	0.666	1.068	0.880	0.295	0.300
1 CC Uplink	N/A	2525.00	21.150	Mid	LTE Band 7	20	9.5	9.42	-0.04	0	Ant 4a	DLN02WVF002	QPSK	1	99	0	left	1	0.284	1.019	0.401	0.149	0.143
1 CC Uplink	N/A	2510.00	Low	LTE Band 7	20	9.5	9.41	-0.19	0	Ant 4a	DLN02WVF002	QPSK	50	25	0	left	1	0.432	1.021	0.441	0.149	0.152	
AND / IEEE C63.1982 - SAFETY LIMIT												Body											
Spatial Peak												1.6 W/kg (10W/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

Table 10-48
LTE Band 7 Ant 4b Body SAR

MEASUREMENT RESULTS																							
CC Link	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Spectral Density [dBm/Hz]	Antenna Coeff.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Slot	Delay Cyclic	SAR [mW/kg]	Scaling Factor	Reported SAR [mW/kg]	Reported SAR [mW/kg]	Pass #		
1	CC Uplink	N/A	215.00	CH	Low	LTE Band 7	20	13.3	13.18	-0.06	0	Ant 4b	DLNR202VF7FG	QPSK	1	0	0	0	1.080	1.033	1.116	0.387	0.410
1	CC Uplink	N/A	215.00	21.000	Mid	LTE Band 7	20	13.3	13.22	0.18	0	Ant 4b	DLNR202VF7FG	QPSK	1	0	0	0	1.100	1.019	1.050	0.379	0.386
1	CC Uplink	N/A	215.00	21.000	High	LTE Band 7	20	13.3	13.14	0.02	0	Ant 4b	DLNR202VF7FG	QPSK	1	50	0	0	1.100	1.038	1.068	0.372	0.388
1	CC Uplink	N/A	215.00	2000	Low	LTE Band 7	20	13.3	13.05	-0.04	0	Ant 4b	DLNR202VF7FG	QPSK	50	50	0	0	1.000	1.059	1.154	0.369	0.423
1	CC Uplink	N/A	215.00	21.000	Mid	LTE Band 7	20	13.3	13.24	0.02	0	Ant 4b	DLNR202VF7FG	QPSK	50	0	0	0	1.010	1.014	1.024	0.370	0.375
1	CC Uplink	N/A	215.00	21.000	High	LTE Band 7	20	13.3	13.08	-0.04	0	Ant 4b	DLNR202VF7FG	QPSK	50	25	0	0	0.959	1.057	1.014	0.348	0.366
1	CC Uplink	N/A	215.00	21.000	Mid	LTE Band 7	20	13.3	13.20	0.02	0	Ant 4b	DLNR202VF7FG	QPSK	100	0	0	0	1.100	1.023	1.043	0.372	0.381
1	CC Uplink	N/A	215.00	21.000	High	LTE Band 7	20	10.3	10.30	-0.01	0	Ant 4b	DLNR202VF7FG	QPSK	1	50	0	0	0.535	1.000	0.935	0.188	0.188
1	CC Uplink	N/A	215.00	21.000	High	LTE Band 7	20	10.3	10.18	-0.13	0	Ant 4b	DLNR202VF7FG	QPSK	50	25	0	0	0.537	1.033	0.955	0.188	0.192
2	CC Uplink	PCC	215.00	2000	Low	LTE Band 7	20	13.3	13.12	0.02	0	Ant 4b	DLNR202VF7FG	QPSK	50	50	0	0	1.100	1.042	1.140	0.405	0.422
2	CC Uplink	PCC	215.00	21.040	Low	LTE Band 7	20	13.3	13.12	0.02	0	Ant 4b	DLNR202VF7FG	QPSK	50	0	0	0	1.100	1.042	1.027	0.382	0.377
1	CC Uplink	N/A	215.00	21.000	Mid	LTE Band 7	20	13.3	13.22	0.02	0	Ant 4b	DLNR202VF7FG	QPSK	1	0	0	0	0.961	1.019	0.972	0.193	0.197
1	CC Uplink	N/A	215.00	21.000	Mid	LTE Band 7	20	13.3	13.24	0.04	0	Ant 4b	DLNR202VF7FG	QPSK	1	0	0	0	0.955	1.014	0.963	0.190	0.193
1	CC Uplink	N/A	215.00	21.000	Mid	LTE Band 7	20	13.3	13.22	0.00	0	Ant 4b	DLNR202VF7FG	QPSK	1	0	0	0	0.000	1.019	0.000	0.000	0.000
1	CC Uplink	N/A	215.00	21.000	Mid	LTE Band 7	20	13.3	13.24	0.00	0	Ant 4b	DLNR202VF7FG	QPSK	50	0	0	0	0.000	1.014	0.000	0.000	0.000
1	CC Uplink	N/A	215.00	21.000	Mid	LTE Band 7	20	13.3	13.22	0.14	0	Ant 4b	DLNR202VF7FG	QPSK	1	0	0	0	0.022	1.019	0.023	0.014	0.014
1	CC Uplink	N/A	215.00	21.000	Mid	LTE Band 7	20	13.3	13.24	0.02	0	Ant 4b	DLNR202VF7FG	QPSK	50	0	0	0	0.032	1.014	0.032	0.013	0.013
1	CC Uplink	N/A	215.00	21.000	Mid	LTE Band 7	20	13.3	13.22	-0.06	0	Ant 4b	DLNR202VF7FG	QPSK	1	0	0	0	0.049	1.019	0.050	0.017	0.017
1	CC Uplink	N/A	215.00	21.000	Mid	LTE Band 7	20	13.3	13.24	-0.17	0	Ant 4b	DLNR202VF7FG	QPSK	50	0	0	0	0.043	1.014	0.044	0.018	0.018
2	CC Uplink	PCC	215.00	2000	Low	LTE Band 7	20	13.3	13.12	0.02	0	Ant 4b	DLNR202VF7FG	QPSK	50	50	0	0	1.088	1.042	1.027	0.382	0.377
2	CC Uplink	PCC	215.00	21.040	Low	LTE Band 7	20	13.3	13.12	0.02	0	Ant 4b	DLNR202VF7FG	QPSK	50	0	0	0	1.088	1.042	1.027	0.382	0.377
AND / IEEE C95.1.1992 - SAFETY LIMIT												Body											
Spatial Peak												1.6 W/kg (avg)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

Note: Blue entry represents variability measurement

FCC ID: BCGA2230	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C1912170052-01-R1.BCG	Test Dates: 12/16/2019 – 01/14/2020	DUT Type: Tablet Device	Page 242 of 283

LTE Band 41 Ant 2a Body SAR

MEASUREMENT RESULTS																							
1 CC Station / 2 CC Station	Component	FREQUENCY		Bandwidth (MHz)	Minimum Allowed Power (dBm)	Controlled Power (dBm)	Power [dBm] [dB]	MFR [dB]	Antenna Config	Device Serial Number	Mechanism	RE Size	RE Offset	Spacing	Side	Daily Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg) [dBm]	SAR (W/kg) [dBm]	Reported SAR (W/kg) [dBm]	Pass	
1 CC UHFH-1 Power Class 1	NA	2500	CH	LT	LT Band #1	20	14.7	14.13	-0.02	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	h	11.58	0.835	1.40	0.852	0.348	0.397
1 CC UHFH-1 Power Class 1	NA	2540.50	40205	LT	LT Band #1	20	14.7	13.82	0.00	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	h	11.58	0.838	1.137	1.001	0.244	0.412
1 CC UHFH-1 Power Class 1	NA	2540.50	40205	MA	LT Band #1	20	14.7	14.34	-0.01	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	h	11.58	0.832	1.138	1.001	0.266	0.428
1 CC UHFH-1 Power Class 1	NA	2638.50	410205	MA	LT Band #1	20	14.7	13.71	-0.01	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	h	11.58	0.858	1.256	1.074	0.242	0.412
1 CC UHFH-1 Power Class 1	NA	2638.50	410205	FR	LT Band #1	20	14.7	13.89	-0.03	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	h	11.58	0.813	1.022	0.977	0.338	0.383
1 CC UHFH-1 Power Class 1	NA	2500	39795	LT	LT Band #1	20	14.7	13.89	-0.01	0	Ant 2a	DLX28033P7GG	QP5K	50	0	0 mm	h	11.58	0.815	1.005	0.882	0.341	0.411
1 CC UHFH-1 Power Class 1	NA	2540.50	40205	LT	LT Band #1	20	14.7	13.89	0.00	0	Ant 2a	DLX28033P7GG	QP5K	50	50	0 mm	h	11.58	0.802	1.008	1.029	0.349	0.422
1 CC UHFH-1 Power Class 1	NA	2539.50	406205	MA	LT Band #1	20	14.7	14.04	-0.01	0	Ant 2a	DLX28033P7GG	QP5K	50	0	0 mm	h	11.58	0.810	1.044	1.059	0.389	0.430
1 CC UHFH-1 Power Class 1	NA	2638.50	410205	MA	LT Band #1	20	14.7	13.77	-0.01	0	Ant 2a	DLX28033P7GG	QP5K	50	0	0 mm	h	11.58	0.868	1.239	1.051	0.369	0.430
1 CC UHFH-1 Power Class 1	NA	2638.50	410205	FR	LT Band #1	20	14.7	13.84	0.00	0	Ant 2a	DLX28033P7GG	QP5K	50	50	0 mm	h	11.58	0.794	1.213	0.919	0.297	0.382
1 CC UHFH-1 Power Class 1	NA	2539.50	406205	MA	LT Band #1	20	14.7	14.03	0.00	0	Ant 2a	DLX28033P7GG	QP5K	100	0	0 mm	h	11.58	0.912	1.047	1.072	0.399	0.431
1 CC UHFH-1 Power Class 2	NA	2638.50	410205	MA	LT Band #1	20	14.7	13.62	-0.01	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	h	12.21	0.970	1.262	0.731	0.220	0.288
1 CC UHFH-1 Power Class 2	PCC	2638.50	410205	MA	LT Band #1	20	14.7	13.25	-0.07	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	h	11.58	0.745	1.396	1.040	0.297	0.415
1 CC UHFH-1 Power Class 3	BCC	2638.50	410205	MA	LT Band #1	20	14.7	13.14	-0.04	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	h	11.58	0.486	1.422	0.896	0.196	0.285
1 CC UHFH-1 Power Class 3	PCC	2638.50	410205	MA	LT Band #1	20	14.7	13.14	-0.04	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	h	11.58	0.811	1.138	0.815	0.088	0.097
1 CC UHFH-1 Power Class 3	NA	2593.50	406205	MA	LT Band #1	20	14.7	14.08	-0.13	0	Ant 2a	DLX28033P7GG	QP5K	50	0	0 mm	h	11.58	0.913	1.044	0.915	0.089	0.097
1 CC UHFH-1 Power Class 3	NA	2593.50	406205	MA	LT Band #1	20	14.7	14.14	-0.04	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	bottom	11.58	0.594	1.138	0.498	0.114	0.130
1 CC UHFH-1 Power Class 3	NA	2593.50	406205	MA	LT Band #1	20	14.7	14.08	-0.04	0	Ant 2a	DLX28033P7GG	QP5K	50	0	0 mm	bottom	11.58	0.591	1.041	0.495	0.112	0.132
1 CC UHFH-1 Power Class 3	NA	2593.50	406205	MA	LT Band #1	20	14.7	14.14	-0.04	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	h	11.58	0.591	1.138	0.593	0.117	0.139
1 CC UHFH-1 Power Class 3	NA	2593.50	406205	MA	LT Band #1	20	14.7	14.08	-0.02	0	Ant 2a	DLX28033P7GG	QP5K	50	0	0 mm	h	11.58	0.592	1.042	0.596	0.112	0.130
1 CC UHFH-1 Power Class 3	NA	2593.50	406205	MA	LT Band #1	20	14.7	14.14	-0.18	0	Ant 2a	DLX28033P7GG	QP5K	1	0	0 mm	h	11.58	0.002	1.138	0.002	0.005	0.001
1 CC UHFH-1 Power Class 3	NA	2593.50	406205	MA	LT Band #1	20	14.7	14.08	-0.19	0	Ant 2a	DLX28033P7GG	QP5K	50	0	0 mm	h	11.58	0.002	1.042	0.002	0.005	0.001
ANSI / IEEE C95.3-1987 - SAFETY LIMIT Spatial Peak																	1.6 W/kg (avg) averaged over 1 gram						
Unintended Exposure/General Population																							

LTE Band 41 Ant 2b Body SAR

MEASUREMENT RESULTS																									
1CC Uplink 1CC Downlink	Component Carrier	FREQ/SC/F		Mode	Bandwidth (MHz)	Minimum Allowed Power (dBm)	Control Power (dBm)	Power Spectral Density (dBm/MHz)	MPE Limit	Assessment Conclusion	Device Serial Number	Modulation	RB Size	RB Offset	Scheduling	Slot	Duty Cycle	SAR/MSL	Scheduling Factor	Reported SAR (W/kg)	SAR Limit (W/kg)	Reported SAR (W/kg)	Pass/Fail		
		Min	Max																						
1CC Uplink 1CC Downlink	N/A	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	14.87	0.04	0	Avr20	DLXNR33P7GG	QPSK	1	0	0 mm	hazk	11.58	0.850	0.300	0.855	0.304	0.313
1CC Uplink 1CC Downlink	N/A	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	14.82	0.02	0	Avr20	DLXNR33P7GG	QPSK	1	0	0 mm	hazk	11.58	0.884	0.019	0.811	0.318	0.324
1CC Uplink 1CC Downlink	N/A	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	14.84	0.01	0	Avr20	DLXNR33P7GG	QPSK	1	0	0 mm	hazk	11.58	0.866	0.014	0.810	0.348	0.331
1CC Uplink 1CC Downlink	N/A	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	14.82	0.02	0	Avr20	DLXNR33P7GG	QPSK	1	99	0 mm	hazk	11.58	0.860	1.035	0.895	0.320	0.375
1CC Uplink 1CC Downlink	N/A	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	14.82	0.07	0	Avr20	DLXNR33P7GG	QPSK	1	99	0 mm	hazk	11.58	0.861	1.069	0.827	0.227	0.350
1CC Uplink 1CC Downlink	N/A	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	14.87	-0.16	0	Avr20	DLXNR33P7GG	QPSK	50	0	0 mm	hazk	11.58	0.854	0.007	0.840	0.289	0.302
1CC Uplink 1CC Downlink	N/A	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	14.75	0.00	0	Avr20	DLXNR33P7GG	QPSK	50	0	0 mm	hazk	11.58	0.868	0.012	0.809	0.319	0.330
1CC Uplink 1CC Downlink	N/A	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	14.78	-0.01	0	Avr20	DLXNR33P7GG	QPSK	50	50	0 mm	hazk	11.58	0.979	0.005	0.884	0.241	0.343
1CC Uplink 1CC Downlink	N/A	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	14.75	-0.02	0	Avr20	DLXNR33P7GG	QPSK	50	0	0 mm	hazk	11.58	0.967	0.002	0.884	0.241	0.343
1CC Uplink 1CC Downlink	N/A	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	14.82	-0.03	0	Avr20	DLXNR33P7GG	QPSK	100	0	0 mm	hazk	11.58	0.942	0.009	0.813	0.321	0.343
1CC Uplink 1CC Downlink	N/A	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	14.76	0.08	0	Avr20	DLXNR33P7GG	QPSK	1	99	0 mm	hazk	12.31	0.839	0.002	0.704	0.222	0.248
1CC Uplink 1CC Downlink	PTCC	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	13.08	0.15	0	Avr20	DLXNR33P7GG	QPSK	1	99	0 mm	hazk	11.58	0.806	1.294	1.046	0.261	0.364
1CC Uplink 1CC Downlink	PTCC	2545.50	2575.50	Low	1E	1E	Band 41	20	14.2	13.44	0.01	0	Avr20	DLXNR33P7GG	QPSK	1	99	0 mm	hazk	12.31	0.818	0.181	0.736	0.210	0.256
1CC Uplink 1CC Downlink	N/A	2533.50	2562.50	Mid	1E	1E	Band 41	20	14.2	14.54	-0.19	0	Avr20	DLXNR33P7GG	QPSK	1	0	0 mm	hazk	11.58	0.902	0.014	0.802	0.005	0.001
1CC Uplink 1CC Downlink	N/A	2533.50	2562.50	Mid	1E	1E	Band 41	20	14.2	14.55	-0.15	0	Avr20	DLXNR33P7GG	QPSK	50	50	0 mm	hazk	11.58	0.902	0.005	0.802	0.005	0.001
1CC Uplink 1CC Downlink	N/A	2533.50	2562.50	Mid	1E	1E	Band 41	20	14.2	14.54	0.02	0	Avr20	DLXNR33P7GG	QPSK	1	0	0 mm	bottom	11.58	0.978	0.014	0.866	0.005	0.001
1CC Uplink 1CC Downlink	N/A	2533.50	2562.50	Mid	1E	1E	Band 41	20	14.2	14.58	-0.01	0	Avr20	DLXNR33P7GG	QPSK	50	50	0 mm	bottom	11.58	0.971	0.005	0.874	0.005	0.001
1CC Uplink 1CC Downlink	N/A	2533.50	2562.50	Mid	1E	1E	Band 41	20	14.2	14.54	0.04	0	Avr20	DLXNR33P7GG	QPSK	1	0	0 mm	right	11.58	0.938	0.014	0.839	0.009	0.016
1CC Uplink 1CC Downlink	N/A	2533.50	2562.50	Mid	1E	1E	Band 41	20	14.2	14.58	0.12	0	Avr20	DLXNR33P7GG	QPSK	50	50	0 mm	right	11.58	0.938	0.005	0.838	0.005	0.015
1CC Uplink 1CC Downlink	N/A	2533.50	2562.50	Mid	1E	1E	Band 41	20	14.2	14.54	-0.03	0	Avr20	DLXNR33P7GG	QPSK	1	0	0 mm	nr	11.58	0.920	0.014	0.826	0.011	0.011
1CC Uplink 1CC Downlink	N/A	2533.50	2562.50	Mid	1E	1E	Band 41	20	14.2	14.58	0.19	0	Avr20	DLXNR33P7GG	QPSK	50	50	0 mm	nr	11.58	0.925	0.005	0.825	0.011	0.011
ANSI / IEEE C63.1902 - SAFETY LIMIT												Body 1.6 W/kg (avg) unweighted over 1 gram													
Uncontrolled Exposure/General Population																									

FCC ID: BCGA2230	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C1912170052-01-R1.BCG	Test Dates: 12/16/2019 – 01/14/2020	DUT Type: Tablet Device	Page 243 of 283

Table 10-51
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 SWR [dB]	MPE [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Dry Cycle	SAR [W/kg]	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Power Class	
		Min	Ch															Scaling Factor					
1 CC Uplink - Power Class 3	N/A	2500.00	38750	Low	LTE Band 41	20	14.2	14.20	0.00	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	0.908	1.000	0.908	0.380	0.380
1 CC Uplink - Power Class 3	N/A	2549.50	40285	Low	LTE Band 41	20	14.2	14.10	0.03	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	0.941	1.023	0.963	0.383	0.392
1 CC Uplink - Power Class 3	N/A	2593.00	40820	Mid	LTE Band 41	20	14.2	14.00	0.03	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	1.030	1.047	1.076	0.411	0.430
1 CC Uplink - Power Class 3	N/A	2636.50	41355	Mid	LTE Band 41	20	14.2	13.70	0.03	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	1.040	1.122	1.187	0.409	0.459
1 CC Uplink - Power Class 3	N/A	2680.00	41890	High	LTE Band 41	20	14.2	13.71	0.04	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	0.899	1.119	1.006	0.350	0.392
1 CC Uplink - Power Class 3	N/A	2708.00	39750	Low	LTE Band 41	20	14.2	14.13	0.03	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	0.888	1.016	0.962	0.384	0.370
1 CC Uplink - Power Class 3	N/A	2748.50	40385	Low	LTE Band 41	20	14.2	14.09	-0.02	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	0.919	1.026	0.943	0.372	0.382
1 CC Uplink - Power Class 3	N/A	2793.00	40920	Mid	LTE Band 41	20	14.2	13.98	0.00	0	Ant 4a	DLX2021P70G	QPSK	50	50	0 mm	back	1.158	1.010	1.052	1.063	0.402	0.423
1 CC Uplink - Power Class 3	N/A	2836.50	41455	Mid	LTE Band 41	20	14.2	13.61	-0.01	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	1.020	1.146	1.189	0.401	0.460
1 CC Uplink - Power Class 3	N/A	2880.00	41990	High	LTE Band 41	20	14.2	13.64	-0.01	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	0.944	1.136	1.074	0.389	0.420
1 CC Uplink - Power Class 3	N/A	2908.00	39750	Low	LTE Band 41	20	14.2	14.09	0.01	0	Ant 4a	DLX2021P70G	QPSK	100	0	0 mm	back	1.158	0.927	1.026	0.951	0.372	0.382
1 CC Uplink - Power Class 3	N/A	2936.50	41055	Mid	LTE Band 41	20	14.2	13.40	0.06	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	back	1.231	0.806	1.202	0.728	0.243	0.292
2 CC Uplink - Power Class 3	PCC	2636.50	41355	Mid	LTE Band 41	20	14.2	12.18	-0.09	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	0.877	1.271	1.121	0.296	0.452
2 CC Uplink - Power Class 3	SCC	2618.70	40817	Mid	LTE Band 41	20	14.2	12.18	0.01	0	Ant 4a	DLX2021P70G	QPSK	50	50	0 mm	back	1.231	0.582	1.205	0.898	0.221	0.280
2 CC Uplink - Power Class 3	PCC	2636.50	41355	Mid	LTE Band 41	20	14.2	12.18	-0.09	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	0.877	1.271	1.121	0.296	0.452
2 CC Uplink - Power Class 3	SCC	2618.70	40817	Mid	LTE Band 41	20	14.2	12.18	0.01	0	Ant 4a	DLX2021P70G	QPSK	50	50	0 mm	back	1.231	0.582	1.205	0.898	0.221	0.280
1 CC Uplink - Power Class 3	N/A	2908.00	39750	Low	LTE Band 41	20	14.2	14.20	-0.02	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	top	1.158	0.270	1.000	0.270	0.077	0.077
1 CC Uplink - Power Class 3	N/A	2958.00	39750	Low	LTE Band 41	20	14.2	14.13	0.00	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	top	1.158	0.241	1.016	0.245	0.068	0.069
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	14.20	0.16	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	bottom	1.158	0.011	1.000	0.011	0.003	0.003
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	14.13	0.18	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	bottom	1.158	0.008	1.016	0.008	0.002	0.002
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	14.20	0.00	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	right	1.158	0.000	1.000	0.000	0.000	0.000
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	14.13	0.00	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	right	1.158	0.000	1.016	0.000	0.000	0.000
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	14.20	-0.04	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	left	1.158	0.648	1.000	0.648	0.237	0.237
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	14.10	-0.02	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	left	1.158	0.863	1.023	0.869	0.243	0.249
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	14.00	0.05	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	left	1.158	0.722	1.047	0.756	0.251	0.263
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	13.70	0.02	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	left	1.158	0.648	1.122	0.725	0.230	0.258
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	13.71	0.00	0	Ant 4a	DLX2021P70G	QPSK	1	0	0 mm	left	1.158	0.900	1.119	0.980	0.173	0.184
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	14.13	0.00	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	left	1.158	0.626	1.016	0.649	0.224	0.238
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	14.09	-0.00	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	left	1.158	0.660	1.026	0.689	0.242	0.248
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	13.98	-0.07	0	Ant 4a	DLX2021P70G	QPSK	50	50	0 mm	left	1.158	0.718	1.052	0.750	0.248	0.261
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	13.61	-0.03	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	left	1.158	0.632	1.146	0.724	0.225	0.258
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	13.64	0.03	0	Ant 4a	DLX2021P70G	QPSK	50	0	0 mm	left	1.158	0.525	1.138	0.609	0.186	0.212
1 CC Uplink - Power Class 3	N/A	2993.00	39750	Low	LTE Band 41	20	14.2	14.09	-0.01	0	Ant 4a	DLX2021P70G	QPSK	100	0	0 mm	left	1.158	0.616	1.026	0.627	0.227	0.233
ANSI / IEEE C63.1992 - SAFETY LIMIT										Body													
Spatial Peak										1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population										averaged over 1 gram													

Table 10-52
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 SWR [dB]	MPE [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Dry Cycle	SAR [W/kg]	Reported SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	Pass/Fail		
		Min	Ch															[W/kg]						
1 CC Uplink - Power Class 3	N/A	2500.00	38750	Low	LTE Band 41	20	15.9	15.77	0.18	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	1.050	1.030	1.082	0.389	0.401	
1 CC Uplink - Power Class 3	N/A	2549.50	40285	Low	LTE Band 41	20	15.9	15.68	0.03	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	1.080	1.052	1.136	0.391	0.411	
1 CC Uplink - Power Class 3	N/A	2593.00	40820	Mid	LTE Band 41	20	15.9	15.87	-0.02	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	1.020	1.007	1.027	0.389	0.372	
1 CC Uplink - Power Class 3	N/A	2636.50	41355	Mid	LTE Band 41	20	15.9	15.32	0.02	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	1.020	1.143	1.166	0.351	0.401	
1 CC Uplink - Power Class 3	N/A	2680.00	41890	High	LTE Band 41	20	15.9	15.54	0.03	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	1.030	1.086	1.110	0.350	0.380	
1 CC Uplink - Power Class 3	N/A	2708.00	39750	Low	LTE Band 41	20	15.9	15.69	0.03	0	Ant 4b	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	1.040	1.050	1.082	0.383	0.402	
1 CC Uplink - Power Class 3	N/A	2748.50	40385	Low	LTE Band 41	20	15.9	15.73	0.03	0	Ant 4b	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	1.070	1.040	1.113	0.384	0.399	
1 CC Uplink - Power Class 3	N/A	2793.00	40920	Mid	LTE Band 41	20	15.9	15.77	0.00	0	Ant 4b	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	1.080	1.030	1.123	0.389	0.401	
1 CC Uplink - Power Class 3	N/A	2836.50	41455	Mid	LTE Band 41	20	15.9	15.63	-0.01	0	Ant 4b	DLX2021P70G	QPSK	50	25	0 mm	back	1.158	1.170	1.018	1.188	0.403	0.409	
1 CC Uplink - Power Class 3	N/A	2836.50	41455	Mid	LTE Band 41	20	15.9	15.29	0.02	0	Ant 4b	DLX2021P70G	QPSK	50	50	0 mm	back	1.158	0.985	1.151	1.134	0.343	0.395	
1 CC Uplink - Power Class 3	N/A	2880.00	41990	High	LTE Band 41	20	15.9	15.60	0.02	0	Ant 4b	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	1.050	1.072	1.126	0.358	0.384	
1 CC Uplink - Power Class 3	N/A	2936.50	41055	Mid	LTE Band 41	20	15.9	15.70	-0.02	0	Ant 4b	DLX2021P70G	QPSK	100	0	0 mm	back	1.158	0.942	1.047	0.988	0.333	0.349	
1 CC Uplink - Power Class 3	N/A	2936.50	41055	Mid	LTE Band 41	20	15.9	15.65	-0.01	0	Ant 4b	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	1.047	1.048	0.883	0.271	0.287	
1 CC Uplink - Power Class 3	N/A	2936.50	41055	Mid	LTE Band 41	20	15.9	15.72	-0.01	0	Ant 4b	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	1.047	1.042	0.875	0.293	0.305	
1 CC Uplink - Power Class 3	PCC	2962.00	40620	Mid	LTE Band 41	20	15.9	15.70	0.00	0	Ant 4b	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	1.047	1.042	0.875	0.293	0.305	
1 CC Uplink - Power Class 3	PCC	2977.20	40420	Mid	LTE Band 41	20	15.9	15.39	0.00	0	Ant 4b	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	1.000	1.125	1.125	0.306	0.306	
1 CC Uplink - Power Class 3	PCC	2993.00	40220	Mid	LTE Band 41	20	15.9	15.39	0.00	0	Ant 4b	DLX2021P70G	QPSK	50	0	0 mm	back	1.158	1.000	1.125	1.125	0.306	0.306	
1 CC Uplink - Power Class 3	PCC	2973.20	40520	Mid	LTE Band 41	20	15.9	15.28	-0.01	0	Ant 4b	DLX2021P70G	QPSK	50	50	0 mm	back	1.158	0.999	1.153	0.806	0.250	0.288	
1 CC Uplink - Power Class 3	N/A	2980.00	39750	Low	LTE Band 41	20	15.9	15.77	0.00	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	0.959	1.030	0.576	0.198	0.200	
1 CC Uplink - Power Class 3	N/A	2984.50	40185	Low	LTE Band 41	20	15.9	15.68	-0.01	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	0.967	1.032	0.596	0.194	0.204	
1 CC Uplink - Power Class 3	N/A	2993.00	40820	Mid	LTE Band 41	20	15.9	15.87	0.03	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	0.987	1.007	0.601	0.200	0.201	
1 CC Uplink - Power Class 3	N/A	2636.50	41355	Mid	LTE Band 41	20	15.9	15.32	0.02	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	0.943	1.143	0.821	0.180	0.207	
1 CC Uplink - Power Class 3	N/A	2680.00	41890	High	LTE Band 41	20	15.9	15.54	0.03	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	back	1.158	0.948	1.088	0.812	0.180	0.201	
1 CC Uplink - Power Class 3	N/A	2708.00	39750	Low	LTE Band 41	20	15.9	15.63	0.03	0	Ant 4b	DLX2021P70G	QPSK	50	25	0 mm	back	1.158	0.852	1.018	0.391	0.190	0.198	
1 CC Uplink - Power Class 3	N/A	2933.00	40820	Mid	LTE Band 41	20	15.9	15.70	-0.01	0	Ant 4b	DLX2021P70G	QPSK	100	0	0 mm	back	1.158	0.988	1.047	0.816	0.198	0.205	
1 CC Uplink - Power Class 3	N/A	2933.00	40820	Mid	LTE Band 41	20	15.9	15.67	0.18	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	bottom	1.158	0.944	1.007	0.504	0.0503	0.0002	
1 CC Uplink - Power Class 3	N/A	2933.00	40820	Mid	LTE Band 41	20	15.9	15.63	0.18	0	Ant 4b	DLX2021P70G	QPSK	50	25	0 mm	bottom	1.158	0.950	0.916	0.505	0.0503	0.0003	
1 CC Uplink - Power Class 3	N/A	2933.00	40820	Mid	LTE Band 41	20	15.9	15.67	0.13	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	upR	1.158	0.939	1.007	0.239	0.017	0.017	
1 CC Uplink - Power Class 3	N/A	2933.00	40820	Mid	LTE Band 41	20	15.9	15.63	0.18	0	Ant 4b	DLX2021P70G	QPSK	50	25	0 mm	upR	1.158	0.938	0.916	0.239	0.017	0.017	
1 CC Uplink - Power Class 3	N/A	2933.00	40820	Mid	LTE Band 41	20	15.9	15.67	0.08	0	Ant 4b	DLX2021P70G	QPSK	1	0	0 mm	upR	1.158	0.968	1.007	0.086	0.027	0.027	
1 CC Uplink - Power Class 3	N/A	2933.00	40820	Mid	LTE Band 41	20	15.9	15.63	-0.12	0	Ant 4b	DLX2021P70G	QPSK	50	25	0 mm	upR	1.158	0.960	0.916	0.061	0.026	0.026	
1 CC Uplink - Power Class 3	N/A	2933.00	40820	Mid	LTE Band 41	20	15.9	15.68	-0.01	0	Ant 4b	DLX2021P70G	QPSK	50	25	0 mm	back	1.158	1.104	1.016	1.108	0.400	0.406	
ANSI / IEEE C63.1 1997 - SAFETY LIMIT																								
Spatial Peak																		Body						
Unmodulated/General Population																		1.6 W/kg (whole)						
																		divided over 1 gram						

Table 10-53
LTE Band 48 Ant 1 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Slope [dB]	MPE [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 [2g] [W/kg]	Reported SAR [2g] [W/kg]	Plot #
MHz	Ch.																				
3560.00	55340	Low	LTE Band 48	20	15.3	14.94	-0.15	0	Ant 1	DLX2R031P70GG	QPSK	1	0	0 mm	back	1:1.58	0.873	1.086	0.948	0.311	0.338
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	14.87	-0.03	0	Ant 1	DLX2R031P70GG	QPSK	1	99	0 mm	back	1:1.58	0.861	1.104	0.951	0.307	0.339
3646.70	56207	Mid-High	LTE Band 48	20	15.3	14.96	-0.03	0	Ant 1	DLX2R031P70GG	QPSK	1	0	0 mm	back	1:1.58	1.060	1.081	1.146	0.305	0.384
3690.00	56640	High	LTE Band 48	20	15.3	14.47	-0.01	0	Ant 1	DLX2R031P70GG	QPSK	1	0	0 mm	back	1:1.58	0.899	1.211	1.099	0.301	0.389
3560.00	55340	Low	LTE Band 48	20	15.3	14.74	0.04	0	Ant 1	DLX2R031P70GG	QPSK	50	0	0 mm	back	1:1.58	0.815	1.138	0.927	0.275	0.313
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	14.73	0.00	0	Ant 1	DLX2R031P70GG	QPSK	50	0	0 mm	back	1:1.58	0.808	1.140	0.944	0.291	0.332
3646.70	56207	Mid-High	LTE Band 48	20	15.3	14.75	0.09	0	Ant 1	DLX2R031P70GG	QPSK	50	0	0 mm	back	1:1.58	0.863	1.135	0.968	0.301	0.342
3690.00	56640	High	LTE Band 48	20	15.3	14.36	-0.05	0	Ant 1	DLX2R031P70GG	QPSK	50	0	0 mm	back	1:1.58	0.848	1.242	1.053	0.302	0.375
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	14.73	-0.03	0	Ant 1	DLX2R031P70GG	QPSK	100	0	0 mm	back	1:1.58	0.838	1.140	0.955	0.295	0.336
3646.70	56207	Mid-High	LTE Band 48	20	15.3	14.96	-0.19	0	Ant 1	DLX2R031P70GG	QPSK	1	0	0 mm	top	1:1.58	0.005	1.081	0.005	0.004	0.004
3646.70	56207	Mid-High	LTE Band 48	20	15.3	14.75	0.15	0	Ant 1	DLX2R031P70GG	QPSK	50	0	0 mm	top	1:1.58	0.005	1.135	0.006	0.004	0.005
3646.70	56207	Mid-High	LTE Band 48	20	15.3	14.96	-0.06	0	Ant 1	DLX2R031P70GG	QPSK	1	0	0 mm	bottom	1:1.58	0.401	1.081	0.433	0.305	0.314
3646.70	56207	Mid-High	LTE Band 48	20	15.3	14.75	0.06	0	Ant 1	DLX2R031P70GG	QPSK	50	0	0 mm	bottom	1:1.58	0.389	1.135	0.442	0.307	0.321
3646.70	56207	Mid-High	LTE Band 48	20	15.3	14.96	0.12	0	Ant 1	DLX2R031P70GG	QPSK	1	0	0 mm	right	1:1.58	0.007	1.081	0.008	0.006	0.006
3646.70	56207	Mid-High	LTE Band 48	20	15.3	14.75	-0.18	0	Ant 1	DLX2R031P70GG	QPSK	50	0	0 mm	right	1:1.58	0.007	1.135	0.008	0.006	0.007
3560.00	55340	Low	LTE Band 48	20	15.3	14.94	0.18	0	Ant 1	DLX2R031P70GG	QPSK	1	0	0 mm	left	1:1.58	0.901	1.086	0.544	0.130	0.141
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	14.87	-0.01	0	Ant 1	DLX2R031P70GG	QPSK	1	99	0 mm	left	1:1.58	0.518	1.104	0.572	0.134	0.148
3646.70	56207	Mid-High	LTE Band 48	20	15.3	14.96	-0.01	0	Ant 1	DLX2R031P70GG	QPSK	1	0	0 mm	left	1:1.58	0.629	1.081	0.680	0.165	0.178
3690.00	56640	High	LTE Band 48	20	15.3	14.47	-0.03	0	Ant 1	DLX2R031P70GG	QPSK	1	0	0 mm	left	1:1.58	0.639	1.211	1.074	0.164	0.199
3560.00	55340	Low	LTE Band 48	20	15.3	14.74	0.01	0	Ant 1	DLX2R031P70GG	QPSK	50	0	0 mm	left	1:1.58	0.494	1.138	0.562	0.129	0.147
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	14.73	0.02	0	Ant 1	DLX2R031P70GG	QPSK	50	0	0 mm	left	1:1.58	0.488	1.140	0.556	0.126	0.144
3646.70	56207	Mid-High	LTE Band 48	20	15.3	14.75	0.01	0	Ant 1	DLX2R031P70GG	QPSK	50	0	0 mm	left	1:1.58	0.654	1.135	0.742	0.173	0.196
3690.00	56640	High	LTE Band 48	20	15.3	14.36	0.01	0	Ant 1	DLX2R031P70GG	QPSK	50	0	0 mm	left	1:1.58	0.616	1.242	0.765	0.158	0.196
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	14.73	-0.02	0	Ant 1	DLX2R031P70GG	QPSK	100	0	0 mm	left	1:1.58	0.504	1.140	0.576	0.130	0.148
3646.70	56207	Mid-High	LTE Band 48	20	15.3	14.96	-0.06	0	Ant 1	DLX2R031P70GG	QPSK	1	0	0 mm	back	1:1.58	1.000	1.081	1.081	0.341	0.369
ANSI / IEEE C63.1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Note: Blue entry represents variability measurement.

Table 10-54
LTE Band 48 Ant 3 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Slope [dB]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [2g] [W/kg]	Scaling Factor	Reported SAR [2g] [W/kg]	SAR [2g] [W/kg]	Reported SAR [2g] [W/kg]	Plot #
3560.00	55340	Low	LTE Band 48	20	16.5	16.15	-0.20	0	Ant 3	DLX2R02VP70GG	QPSK	1	99	0 mm	back	1:1.58	0.538	1.084	0.583	0.166	0.180
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	16.20	-0.18	0	Ant 3	DLX2R02VP70GG	QPSK	1	99	0 mm	back	1:1.58	0.535	1.072	0.574	0.163	0.175
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.33	-0.20	0	Ant 3	DLX2R02VP70GG	QPSK	1	99	0 mm	back	1:1.58	0.767	1.040	0.798	0.226	0.235
3690.00	56640	High	LTE Band 48	20	16.5	16.26	-0.12	0	Ant 3	DLX2R02VP70GG	QPSK	1	0	0 mm	back	1:1.58	0.475	1.057	0.502	0.144	0.152
3560.00	55340	Low	LTE Band 48	20	16.5	16.10	-0.18	0	Ant 3	DLX2R02VP70GG	QPSK	50	0	0 mm	back	1:1.58	0.509	1.096	0.558	0.157	0.172
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	16.15	-0.14	0	Ant 3	DLX2R02VP70GG	QPSK	50	50	0 mm	back	1:1.58	0.495	1.084	0.537	0.151	0.164
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.21	-0.17	0	Ant 3	DLX2R02VP70GG	QPSK	50	0	0 mm	back	1:1.58	0.735	1.069	0.786	0.217	0.232
3690.00	56640	High	LTE Band 48	20	16.5	16.14	-0.15	0	Ant 3	DLX2R02VP70GG	QPSK	50	0	0 mm	back	1:1.58	0.441	1.086	0.479	0.134	0.146
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.20	-0.11	0	Ant 3	DLX2R02VP70GG	QPSK	100	0	0 mm	back	1:1.58	0.747	1.072	0.801	0.218	0.234
3560.00	55340	Low	LTE Band 48	20	16.5	16.15	-0.03	0	Ant 3	DLX2R02VP70GG	QPSK	1	99	0 mm	top	1:1.58	0.870	1.084	0.943	0.223	0.242
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	16.20	0.01	0	Ant 3	DLX2R02VP70GG	QPSK	1	99	0 mm	top	1:1.58	0.884	1.072	0.862	0.204	0.219
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.33	0.00	0	Ant 3	DLX2R02VP70GG	QPSK	1	99	0 mm	top	1:1.58	0.735	1.040	0.764	0.185	0.192
3690.00	56640	High	LTE Band 48	20	16.5	16.26	0.00	0	Ant 3	DLX2R02VP70GG	QPSK	1	0	0 mm	top	1:1.58	0.690	1.057	0.729	0.172	0.182
3560.00	55340	Low	LTE Band 48	20	16.5	16.10	-0.01	0	Ant 3	DLX2R02VP70GG	QPSK	50	0	0 mm	top	1:1.58	0.829	1.096	0.909	0.214	0.235
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	16.15	0.00	0	Ant 3	DLX2R02VP70GG	QPSK	50	50	0 mm	top	1:1.58	0.758	1.084	0.822	0.192	0.208
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.21	0.01	0	Ant 3	DLX2R02VP70GG	QPSK	50	0	0 mm	top	1:1.58	0.734	1.069	0.785	0.184	0.197
3690.00	56640	High	LTE Band 48	20	16.5	16.14	-0.02	0	Ant 3	DLX2R02VP70GG	QPSK	50	0	0 mm	top	1:1.58	0.659	1.086	0.716	0.163	0.177
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.20	0.00	0	Ant 3	DLX2R02VP70GG	QPSK	100	0	0 mm	top	1:1.58	0.723	1.072	0.775	0.181	0.194
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.33	-0.17	0	Ant 3	DLX2R02VP70GG	QPSK	1	99	0 mm	bottom	1:1.58	0.010	1.040	0.010	0.002	0.002
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.21	0.18	0	Ant 3	DLX2R02VP70GG	QPSK	50	0	0 mm	bottom	1:1.58	0.008	1.069	0.009	0.002	0.002
3560.00	55340	Low	LTE Band 48	20	16.5	16.15	-0.03	0	Ant 3	DLX2R02VP70GG	QPSK	1	99	0 mm	right	1:1.58	1.060	1.084	1.149	0.293	0.318
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	16.20	0.01	0	Ant 3	DLX2R02VP70GG	QPSK	1	99	0 mm	right	1:1.58	1.030	1.072	1.104	0.281	0.301
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.33	-0.01	0	Ant 3	DLX2R02VP70GG	QPSK	1	99	0 mm	right	1:1.58	0.907	1.040	0.943	0.246	0.256
3690.00	56640	High	LTE Band 48	20	16.5	16.26	0.06	0	Ant 3	DLX2R02VP70GG	QPSK	1	0	0 mm	right	1:1.58	0.906	1.057	0.958	0.243	0.257
3560.00	55340	Low	LTE Band 48	20	16.5	16.10	-0.00	0	Ant 3	DLX2R02VP70GG	QPSK	50	0	0 mm	right	1:1.58	1.040	1.096	1.140	0.284	0.311
3603.30	55773	Low-Mid	LTE Band 48	20	16.5	16.15	0.06	0	Ant 3	DLX2R02VP70GG	QPSK	50	50	0 mm	right	1:1.58	0.983	1.084	1.066	0.267	0.289
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.21	-0.01	0	Ant 3	DLX2R02VP70GG	QPSK	50	0	0 mm	right	1:1.58	0.981	1.069	1.049	0.262	0.280
3690.00	56640	High	LTE Band 48	20	16.5	16.14	-0.04	0	Ant 3	DLX2R02VP70GG	QPSK	50	0	0 mm	right	1:1.58	0.943	1.086	0.915	0.223	0.242
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.20	0.00	0	Ant 3	DLX2R02VP70GG	QPSK	100	0	0 mm	right	1:1.58	0.948	1.072	1.016	0.254	0.272
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.33	0.13	0	Ant 3	DLX2R02VP70GG	QPSK	1	99	0 mm	left	1:1.58	0.007	1.040	0.007	0.006	0.006
3646.70	56207	Mid-High	LTE Band 48	20	16.5	16.21	0.19	0	Ant 3	DLX2R02VP70GG	QPSK	50	0	0 mm	left	1:1.58	0.008	1.069	0.009	0.007	0.007
ANSI / IEEE C63.19-2: SAFETY LIMIT																					
Spatial Peak Uncontrolled Power / General Population										Body 18 W/kg (avg) 2.0 W/kg (per 1.0g)											

Table 10-55
LTE Band 48 Ant 2b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power DUT [dB]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [2g] (W/kg)	Scaling Factor	Reported SAR [2g] (W/kg)	SAR [10g] (W/kg)	Reported SAR [10g] (W/kg)	Plot #	
MHz	Ch.																					
3560.00	55340	Low	LTE Band 48	20	15.3	15.10	-0.01	0	Ant 2b	DLXDR033P70G	QPSK	1	0	0 mm	back	1:15.8	1.090	1.047	1.141	0.331	0.336	Alt 7
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.15	-0.02	0	Ant 2b	DLXDR033P70G	QPSK	1	99	0 mm	back	1:15.8	0.913	1.035	0.945	0.266	0.275	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.29	0.02	0	Ant 2b	DLXDR033P70G	QPSK	1	0	0 mm	back	1:15.8	0.949	1.002	0.951	0.247	0.247	
3690.00	56640	High	LTE Band 48	20	15.3	15.17	-0.04	0	Ant 2b	DLXDR033P70G	QPSK	1	99	0 mm	back	1:15.8	0.738	1.030	0.760	0.211	0.217	
3560.00	55340	Low	LTE Band 48	20	15.3	15.11	-0.01	0	Ant 2b	DLXDR033P70G	QPSK	50	25	0 mm	back	1:15.8	1.050	1.045	1.097	0.310	0.324	
3603.30	55773	Low-Mid	LTE Band 48	20	15.3	15.06	-0.01	0	Ant 2b	DLXDR033P70G	QPSK	50	50	0 mm	back	1:15.8	0.890	1.057	0.941	0.260	0.275	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.18	-0.01	0	Ant 2b	DLXDR033P70G	QPSK	50	0	0 mm	back	1:15.8	0.816	1.028	0.839	0.235	0.242	
3690.00	56640	High	LTE Band 48	20	15.3	15.17	-0.04	0	Ant 2b	DLXDR033P70G	QPSK	50	50	0 mm	back	1:15.8	0.743	1.030	0.765	0.212	0.218	
3690.00	56640	High	LTE Band 48	20	15.3	15.17	-0.02	0	Ant 2b	DLXDR033P70G	QPSK	100	0	0 mm	back	1:15.8	0.765	1.030	0.788	0.218	0.225	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.29	0.00	0	Ant 2b	DLXDR033P70G	QPSK	1	0	0 mm	top	1:15.8	0.900	1.002	0.900	0.900	0.900	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.18	0.00	0	Ant 2b	DLXDR033P70G	QPSK	50	0	0 mm	top	1:15.8	0.900	1.028	0.900	0.900	0.900	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.29	0.02	0	Ant 2b	DLXDR033P70G	QPSK	1	0	0 mm	bottom	1:15.8	0.278	1.002	0.279	0.075	0.075	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.18	0.01	0	Ant 2b	DLXDR033P70G	QPSK	50	0	0 mm	bottom	1:15.8	0.255	1.028	0.263	0.068	0.070	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.29	0.13	0	Ant 2b	DLXDR033P70G	QPSK	1	0	0 mm	right	1:15.8	0.035	1.002	0.035	0.008	0.008	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.18	0.11	0	Ant 2b	DLXDR033P70G	QPSK	50	0	0 mm	right	1:15.8	0.032	1.028	0.033	0.007	0.007	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.29	0.09	0	Ant 2b	DLXDR033P70G	QPSK	1	0	0 mm	left	1:15.8	0.009	1.002	0.009	0.002	0.002	
3646.70	56207	Mid-High	LTE Band 48	20	15.3	15.18	0.19	0	Ant 2b	DLXDR033P70G	QPSK	50	0	0 mm	left	1:15.8	0.008	1.028	0.008	0.002	0.002	
3560	55340	Low	LTE Band 48	20	15.3	15.10	-0.01	0	Ant 2b	DLXDR033P70G	QPSK	1	0	0 mm	back	1:15.8	1.070	1.047	1.120	0.316	0.331	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																	Body					
Spatial Peak																	1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 1 gram					

Note: Blue entry represents variability measurement.

Table 10-56
LTE Band 48 Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power DUT [dB]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [2g] (W/kg)	Scaling Factor	Reported SAR [2g] (W/kg)	SAR [10g] (W/kg)	Reported SAR [10g] (W/kg)	Plot #	
MHz	Ch.																					
3560.00	55340	Low	LTE Band 48	20	16.3	15.96	0.17	0	Ant 4b	DLXDR033P70G	QPSK	1	50	0 mm	back	1:15.8	0.910	1.081	0.884	0.279	0.302	
3603.30	55773	Low-Mid	LTE Band 48	20	16.3	15.83	-0.01	0	Ant 4b	DLXDR033P70G	QPSK	1	99	0 mm	back	1:15.8	0.907	1.114	1.010	0.271	0.302	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	15.89	-0.02	0	Ant 4b	DLXDR033P70G	QPSK	1	0	0 mm	back	1:15.8	0.944	1.099	1.037	0.282	0.310	
3690.00	56640	High	LTE Band 48	20	16.3	15.87	0.17	0	Ant 4b	DLXDR033P70G	QPSK	1	99	0 mm	back	1:15.8	0.990	1.156	1.144	0.284	0.340	
3560.00	55340	Low	LTE Band 48	20	16.3	15.85	-0.02	0	Ant 4b	DLXDR033P70G	QPSK	50	25	0 mm	back	1:15.8	0.926	1.109	1.027	0.279	0.309	
3603.30	55773	Low-Mid	LTE Band 48	20	16.3	15.86	0.15	0	Ant 4b	DLXDR033P70G	QPSK	50	50	0 mm	back	1:15.8	0.873	1.159	1.012	0.260	0.301	
3646.70	56207	Mid-High	LTE Band 48	20	16.3	15.75	0.00	0	Ant 4b	DLXDR033P70G	QPSK	50	50	0 mm	back	1:15.8	0.865	1.135	0.982	0.254	0.288	
3690.00	56640	High	LTE Band 48	20	16.3	15.45	0.19	0	Ant 4b	DLXDR033P70G	QPSK	50	50	0 mm	back	1:15.8	0.927	1.216	1.127	0.274	0.333	
3560.00	55340	Low	LTE Band 48	20	16.3	15.84	-0.01	0	Ant 4b	DLXDR033P70G	QPSK	100	0	0 mm	back	1:15.8	0.949	1.112	1.055	0.287	0.319	
3560.00	55340	Low	LTE Band 48	20	16.3	15.96	-0.04	0	Ant 4b	DLXDR033P70G	QPSK	1	50	0 mm	top	1:15.8	0.304	1.081	0.329	0.091	0.098	
3560.00	55340	Low	LTE Band 48	20	16.3	15.85	-0.02	0	Ant 4b	DLXDR033P70G	QPSK	50	25	0 mm	top	1:15.8	0.300	1.109	0.333	0.090	0.100	
3560.00	55340	Low	LTE Band 48	20	16.3	15.96	0.11	0	Ant 4b	DLXDR033P70G	QPSK	1	50	0 mm	bottom	1:15.8	0.005	1.081	0.005	0.004	0.004	
3560.00	55340	Low	LTE Band 48	20	16.3	15.85	0.15	0	Ant 4b	DLXDR033P70G	QPSK	50	25	0 mm	bottom	1:15.8	0.006	1.109	0.007	0.005	0.006	
3560.00	55340	Low	LTE Band 48	20	16.3	15.96	0.12	0	Ant 4b	DLXDR033P70G	QPSK	1	50	0 mm	right	1:15.8	0.028	1.081	0.030	0.011	0.012	
3560.00	55340	Low	LTE Band 48	20	16.3	15.85	-0.15	0	Ant 4b	DLXDR033P70G	QPSK	50	25	0 mm	right	1:15.8	0.026	1.109	0.028	0.010	0.011	
3560.00	55340	Low	LTE Band 48	20	16.3	15.96	0.19	0	Ant 4b	DLXDR033P70G	QPSK	1	50	0 mm	left	1:15.8	0.042	1.081	0.045	0.014	0.015	
3560.00	55340	Low	LTE Band 48	20	16.3	15.85	0.17	0	Ant 4b	DLXDR033P70G	QPSK	50	25	0 mm	left	1:15.8	0.040	1.109	0.044	0.014	0.016	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																			Body			
Uncontrolled Exposure/General Population																			1.6 W/kg (mW/g)			
																			averaged over 1 gram			

Table 10-57
2.4 GHz WLAN Ant 2a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power DUT [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate [Mbps]	Side	Duty Cycle (%)	SAR [2g] (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR [2g] (W/kg)	SAR [10g] (W/kg)	Reported SAR [10g] (W/kg)	Plot
MHz	Ch.																				
2412	1	802.11b	OFSSS	22	13.0	11.35	0.09	0 mm	Ant 2a	V2	DLXDR01PP70G	1	back	99.2	0.727	1.462	1.008	1.071	0.312	0.460	
2437	6	802.11b	OFSSS	22	13.0	11.32	0.05	0 mm	Ant 2a	V2	DLXDR01PP70G	1	back	99.2	0.705	1.472	1.008	1.046	0.300	0.445	
2462	11	802.11b	OFSSS	22	13.0	11.37	0.03	0 mm	Ant 2a	V2	DLXDR01PP70G	1	back	99.2	0.766	1.455	1.008	1.123	0.321	0.471	
2462	11	802.11b	OFSSS	22	13.0	11.72	0.01	0 mm	Ant 2a	V1	DLXDR01PP70H	1	back	99.2	0.684	1.343	1.008	0.926	0.293	0.397	
2462	11	802.11b	OFSSS	22	13.0	11.37	0.14	0 mm	Ant 2a	V2	DLXDR01PP70G	1	top	99.2	0.015	1.455	1.008	0.022	0.005	0.007	
2462	11	802.11b	OFSSS	22	13.0	11.37	-0.01	0 mm	Ant 2a	V2	DLXDR01PP70G	1	bottom	99.2	0.336	1.455	1.008	0.483	0.099	0.145	
2462	11	802.11b	OFSSS	22	13.0	11.37	0.09	0 mm	Ant 2a	V2	DLXDR01PP70G	1	right	99.2	0.375	1.455	1.008	0.550	0.128	0.188	
2462	11	802.11b	OFSSS	22	13.0	11.37	0.01	0 mm	Ant 2a	V2	DLXDR01PP70G	1	left	99.2	0.000	1.455	1.008	0.000	0.000	0.000	
2412	1	802.11b	OFSSS	22	6.0	5.42	0.12	0 mm	Ant 2a	V2	DLXDR01PP70G	1	back	99.2	0.214	1.143	1.008	0.247	0.060	0.104	
2412	1	802.11b	OFSSS	22	6.0	5.42	0.07	0 mm	Ant 2a	V2	DLXDR01PP70G	1	bottom	99.2	0.075	1.143	1.008	0.086	0.023	0.026	
2412	1	802.11b	OFSSS	22	6.0	5.42	0.07	0 mm	Ant 2a	V2	DLXDR01PP70G	1	right	99.2	0.118	1.143	1.008	0.134	0.044	0.051	
ANSI / IEEE CS9.1 1992 - SAFETY LIMIT															Body						
Spatial Peak															1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population															averaged over 1 gram						

Table 10-58
2.4 GHz WLAN Ant 4a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [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)	Port #
Mhz	Ch																				
2412	1	802.11b	DSSS	22	13.0	11.58	-0.18	0 mm	Ant 4a	V2	DLX2R01PP7GG	1	back	99.2	0.778	1.387	1.008	1.088	0.341	0.477	
2437	6	802.11b	DSSS	22	13.0	11.64	-0.12	0 mm	Ant 4a	V2	DLX2R01PP7GG	1	back	99.2	0.949	1.368	1.008	1.371	0.346	0.477	A18
2437	6	802.11b	DSSS	22	13.0	11.69	0.05	0 mm	Ant 4a	V1	DLX2R00LP7GH	1	back	99.2	0.821	1.352	1.008	1.119	0.325	0.457	
2462	11	802.11b	DSSS	22	13.0	11.55	0.01	0 mm	Ant 4a	V2	DLX2R01PP7GG	1	back	99.2	0.741	1.413	1.008	1.055	0.325	0.463	
2437	6	802.11b	DSSS	22	13.0	11.64	-0.04	0 mm	Ant 4a	V2	DLX2R01PP7GG	1	top	99.2	0.335	1.368	1.008	0.462	0.096	0.132	
2437	6	802.11b	DSSS	22	13.0	11.64	0.17	0 mm	Ant 4a	V2	DLX2R01PP7GG	1	bottom	99.2	0.012	1.368	1.008	0.017	0.003	0.004	
2437	6	802.11b	DSSS	22	13.0	11.64	-0.15	0 mm	Ant 4a	V2	DLX2R01PP7GG	1	right	99.2	0.000	1.368	1.008	0.000	0.000	0.000	
2437	6	802.11b	DSSS	22	13.0	11.64	0.04	0 mm	Ant 4a	V2	DLX2R01PP7GG	1	left	99.2	0.572	1.368	1.008	0.789	0.197	0.272	
2462	11	802.11b	DSSS	22	6.0	5.49	-0.06	0 mm	Ant 4a	V2	DLX2R01PP7GG	1	back	99.2	0.261	1.125	1.008	0.228	0.082	0.093	
2462	11	802.11b	DSSS	22	6.0	5.49	0.05	0 mm	Ant 4a	V2	DLX2R01PP7GG	1	top	99.2	0.095	1.125	1.008	0.108	0.027	0.031	
2462	11	802.11b	DSSS	22	6.0	5.49	0.10	0 mm	Ant 4a	V2	DLX2R01PP7GG	1	left	99.2	0.140	1.125	1.008	0.159	0.049	0.056	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body												
Spatial Peak									1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 1 gram												

Table 10-59
WLAN 5GHz ANTlower Body SAR

MEASUREMENT RESULTS																					
FREQUENCY	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens (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) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Port #	
MHz	Ch.																				
5270	54	802.11n	OFDM	40	16.5	15.58	0.19	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	13.5	back	97.0	0.047	1.236	1.031	0.060	0.017	0.022	
5270	54	802.11n	OFDM	40	16.5	15.58	0.00	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	13.5	top	97.0	0.000	1.236	1.031	0.000	0.000	0.000	
5270	54	802.11n	OFDM	40	16.5	15.58	0.00	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	13.5	bottom	97.0	0.000	1.236	1.031	0.000	0.000	0.000	
5270	54	802.11n	OFDM	40	16.5	15.58	0.10	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	13.5	right	97.0	0.837	1.236	1.031	1.067	0.192	0.245	
5270	54	802.11n	OFDM	40	16.5	15.50	-0.02	0 mm	SGH-ANTlower	V1	DLX2N001P7GH	13.5	right	98.0	0.744	1.259	1.020	0.955	0.177	0.227	
5310	62	802.11n	OFDM	40	12.5	12.53	-0.05	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	13.5	right	97.0	0.329	1.250	1.031	0.434	0.079	0.090	
5270	54	802.11n	OFDM	40	16.5	15.58	0.19	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	13.5	left	97.0	0.004	1.236	1.031	0.005	0.001	0.001	
5270	54	802.11n	OFDM	40	12.5	12.55	-0.06	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	13.5	right	97.0	0.312	1.000	1.031	0.322	0.068	0.070	
5610	122	802.11ac	OFDM	80	16.5	15.56	0.01	0 mm	SGH-ANTlower	V2	DLX2R01PP7GG	29.3	back	96.0	0.097	1.242	1.042	0.126	0.036	0.047	
5610	122	802.11ac	OFDM	80	16.5	15.56	0.00	0 mm	SGH-ANTlower	V2	DLX2R01PP7GG	29.3	top	96.0	0.000	1.242	1.042	0.000	0.000	0.000	
5610	122	802.11ac	OFDM	80	16.5	15.56	0.00	0 mm	SGH-ANTlower	V2	DLX2R01PP7GG	29.3	bottom	96.0	0.000	1.242	1.042	0.000	0.000	0.000	
5630	106	802.11ac	OFDM	80	12.5	10.51	-0.03	0 mm	SGH-ANTlower	V2	DLX2R01PP7GG	29.3	right	96.0	0.242	1.581	1.042	0.399	0.056	0.092	
5610	122	802.11ac	OFDM	80	16.5	15.56	0.04	0 mm	SGH-ANTlower	V2	DLX2R01PP7GG	29.3	right	96.0	0.896	1.242	1.042	1.150	0.231	0.286	
5690	138	802.11ac	OFDM	80	16.5	15.52	0.17	0 mm	SGH-ANTlower	V2	DLX2R01PP7GG	29.3	right	96.0	0.910	1.253	1.042	1.188	0.233	0.304	A19
5690	138	802.11ac	OFDM	80	16.5	15.50	-0.20	0 mm	SGH-ANTlower	V1	DLX2N001P7GH	29.3	right	96.0	0.840	1.259	1.042	1.102	0.218	0.286	
5610	122	802.11ac	OFDM	80	16.5	15.56	-0.11	0 mm	SGH-ANTlower	V2	DLX2R01PP7GG	29.3	left	96.0	0.011	1.242	1.042	0.014	0.004	0.005	
5690	138	802.11ac	OFDM	80	12.5	12.40	0.10	0 mm	SGH-ANTlower	V2	DLX2R01PP7GG	29.3	back	96.0	0.045	1.023	1.042	0.048	0.190	0.203	
5690	138	802.11ac	OFDM	80	12.5	12.40	0.02	0 mm	SGH-ANTlower	V2	DLX2R01PP7GG	29.3	right	96.0	0.495	1.023	1.042	0.528	0.120	0.128	
5775	155	802.11ac	OFDM	80	15.5	14.57	0.08	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	29.3	back	96.0	0.074	1.239	1.042	0.096	0.027	0.035	
5775	155	802.11ac	OFDM	80	15.5	14.57	0.00	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	29.3	top	96.0	0.000	1.239	1.042	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	15.5	14.57	0.00	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	29.3	bottom	96.0	0.000	1.239	1.042	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	15.5	14.57	0.06	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	29.3	right	96.0	0.846	1.239	1.042	1.052	0.218	0.281	
5775	155	802.11ac	OFDM	80	15.5	14.61	-0.20	0 mm	SGH-ANTlower	V1	DLX2N001P7GH	29.3	right	96.0	0.816	1.227	1.042	1.043	0.222	0.284	
5775	155	802.11ac	OFDM	80	15.5	14.57	0.00	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	29.3	left	96.0	0.000	1.239	1.042	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	11.5	11.50	0.02	0 mm	SGH-ANTlower	V2	DLX2N002P7GG	29.3	right	96.0	0.453	1.000	1.042	0.472	0.111	0.116	
5610	122	802.11ac	OFDM	80	16.5	15.56	0.18	0 mm	SGH-ANTlower	V2	DLX2R01PP7GG	29.3	right	96.0	0.892	1.242	1.042	1.154	0.240	0.311	
5690	138	802.11ac	OFDM	80	16.5	15.52	0.03	0 mm	SGH-ANTlower	V2	DLX2R01PP7GG	29.3	right	96.0	0.958	1.253	1.042	1.133	0.246	0.321	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT														Body							
Spatial Peak														1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population														averaged over 1 gram							

Note: Blue entry represents variability measurement.

FCC ID: BCGA2230		SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 10-60
WLAN 5GHz ANTupper Body SAR

MEASUREMENT RESULTS																					
FREQUENCY	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dm [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 [W/kg]	SAR (10g) [W/kg]	Reported SAR [W/kg]	Post	
5270	54	802.11n	OFDM	40	16.25	15.25	0.18	0 mm	SGH ANTupper	V1	DLXZN001P7GH	13.5	back	98.0	0.100	1.259	1.020	0.128	0.059	0.050	
5270	54	802.11n	OFDM	40	16.25	15.25	0.00	0 mm	SGH ANTupper	V1	DLXZN001P7GH	13.5	top	98.0	0.003	1.259	1.020	0.004	0.000	0.000	
5270	54	802.11n	OFDM	40	16.25	15.25	0.00	0 mm	SGH ANTupper	V1	DLXZN001P7GH	13.5	bottom	98.0	0.003	1.259	1.020	0.004	0.000	0.000	
5270	54	802.11n	OFDM	40	16.25	15.25	0.02	0 mm	SGH ANTupper	V1	DLXZN001P7GH	13.5	right	98.0	0.840	1.259	1.020	1.079	0.241	0.309	
5270	54	802.11n	OFDM	40	16.25	15.27	0.09	0 mm	SGH ANTupper	V2	DLXZN001P7GG	13.5	right	96.7	0.699	1.253	1.034	0.906	0.184	0.251	
5310	62	802.11n	OFDM	40	13.50	12.50	-0.11	0 mm	SGH ANTupper	V1	DLXZN001P7GH	13.5	right	98.0	0.408	1.259	1.020	0.524	0.114	0.146	
5270	54	802.11n	OFDM	40	16.25	15.25	0.18	0 mm	SGH ANTupper	V1	DLXZN001P7GH	13.5	left	98.0	0.007	1.259	1.020	0.009	0.003	0.004	
5290	58	802.11ac	OFDM	80	11.25	11.14	-0.14	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	back	95.7	0.025	1.026	1.045	0.027	0.009	0.010	
5290	58	802.11ac	OFDM	80	11.25	11.14	0.20	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	right	95.7	0.318	1.026	1.045	0.341	0.086	0.092	
5610	122	802.11ac	OFDM	80	15.00	14.13	0.14	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	back	95.7	0.067	1.222	1.045	0.086	0.026	0.033	
5610	122	802.11ac	OFDM	80	15.00	14.13	0.00	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	top	95.7	0.000	1.222	1.045	0.000	0.000	0.000	
5610	122	802.11ac	OFDM	80	15.00	14.13	0.00	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	bottom	95.7	0.000	1.222	1.045	0.000	0.000	0.000	
5530	106	802.11ac	OFDM	80	12.50	10.52	-0.20	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	right	95.7	0.288	1.578	1.045	0.475	0.085	0.140	
5610	122	802.11ac	OFDM	80	15.00	14.13	-0.13	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	right	95.7	0.879	1.222	1.045	1.122	0.287	0.366	
5610	122	802.11ac	OFDM	80	15.00	14.16	0.07	0 mm	SGH ANTupper	V2	DLXZN001P7GG	29.3	right	95.7	0.733	1.213	1.045	0.939	0.232	0.294	
5690	138	802.11ac	OFDM	80	15.00	14.12	0.19	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	right	95.7	0.702	1.225	1.045	0.899	0.230	0.294	
5610	122	802.11ac	OFDM	80	15.00	14.13	0.17	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	left	95.7	0.012	1.222	1.045	0.015	0.005	0.006	
5610	122	802.11ac	OFDM	80	10.00	9.98	-0.16	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	right	95.7	0.260	1.005	1.045	0.273	0.076	0.080	
5775	155	802.11ac	OFDM	80	15.50	14.53	-0.05	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	back	95.7	0.075	1.250	1.045	0.096	0.030	0.039	
5775	155	802.11ac	OFDM	80	15.50	14.53	0.00	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	top	95.7	0.000	1.250	1.045	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	15.50	14.53	0.00	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	bottom	95.7	0.000	1.250	1.045	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	15.50	14.53	0.14	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	right	95.7	0.788	1.250	1.045	1.029	0.273	0.357	
5775	155	802.11ac	OFDM	80	15.50	14.53	-0.10	0 mm	SGH ANTupper	V2	DLXZN001P7GG	29.3	right	95.7	0.737	1.250	1.045	0.963	0.197	0.251	
5775	155	802.11ac	OFDM	80	15.50	14.53	0.19	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	left	95.7	0.007	1.250	1.045	0.009	0.002	0.003	
5775	155	802.11ac	OFDM	80	10.50	10.42	0.12	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	back	95.7	0.009	1.019	1.045	0.010	0.001	0.001	
5775	155	802.11ac	OFDM	80	10.50	10.42	-0.02	0 mm	SGH ANTupper	V1	DLXZN001P7GH	29.3	right	95.7	0.311	1.019	1.045	0.331	0.101	0.108	
5270	54	802.11n	OFDM	40	16.25	15.25	0.00	0 mm	SGH ANTupper	V2	DLXZN001P7GH	13.5	right	98.0	0.821	1.259	1.020	1.054	0.229	0.294	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Note: Blue entry represents variability measurement.

Table 10-61
Bluetooth Ant 2a Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dm (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Cont 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	13.80	-0.01	0 mm	Ant 2a	V1	DLXZN001P7GH	1	back	76.8	0.810	1.047	1.009	0.856	0.399	0.379	
2441	39	Bluetooth	FHSS	14.0	13.78	-0.14	0 mm	Ant 2a	V1	DLXZN001P7GH	1	back	76.8	0.941	1.052	1.009	0.999	0.403	0.428	
2480	78	Bluetooth	FHSS	14.0	13.55	0.02	0 mm	Ant 2a	V1	DLXZN001P7GH	1	back	76.8	1.050	1.109	1.009	1.175	0.442	0.495	A20
2480	78	Bluetooth	FHSS	14.0	13.53	-0.19	0 mm	Ant 2a	V2	DLXZN002P7GG	1	back	76.9	0.912	1.114	1.008	1.024	0.383	0.430	
2402	0	Bluetooth	FHSS	14.0	13.80	0.11	0 mm	Ant 2a	V1	DLXZN001P7GH	1	top	76.8	0.030	1.047	1.009	0.011	0.005	0.005	
2402	0	Bluetooth	FHSS	14.0	13.80	0.01	0 mm	Ant 2a	V1	DLXZN001P7GH	1	bottom	76.8	0.286	1.047	1.009	0.304	0.088	0.093	
2402	0	Bluetooth	FHSS	14.0	13.80	-0.01	0 mm	Ant 2a	V1	DLXZN001P7GH	1	right	76.8	0.552	1.047	1.009	0.583	0.197	0.208	
2402	0	Bluetooth	FHSS	14.0	13.80	0.19	0 mm	Ant 2a	V1	DLXZN001P7GH	1	left	76.8	0.002	1.047	1.009	0.002	0.001	0.001	
2441	39	Bluetooth	FHSS	11.0	10.69	0.03	0 mm	Ant 2a	V1	DLXZN001P7GH	1	back	76.8	0.422	1.074	1.009	0.457	0.184	0.198	
2441	39	Bluetooth	FHSS	11.0	10.69	0.03	0 mm	Ant 2a	V1	DLXZN001P7GH	1	bottom	76.8	0.161	1.074	1.009	0.174	0.050	0.054	
2441	39	Bluetooth	FHSS	11.0	10.69	0.02	0 mm	Ant 2a	V1	DLXZN001P7GH	1	right	76.8	0.270	1.074	1.009	0.293	0.093	0.100	
2441	39	Bluetooth	FHSS	7.0	6.83	0.10	0 mm	Ant 2a	V1	DLXZN001P7GH	1	back	76.8	0.186	1.040	1.009	0.195	0.080	0.083	
2441	39	Bluetooth	FHSS	7.0	6.83	0.08	0 mm	Ant 2a	V1	DLXZN001P7GH	1	bottom	76.8	0.069	1.040	1.009	0.072	0.021	0.022	
2441	39	Bluetooth	FHSS	7.0	6.83	0.07	0 mm	Ant 2a	V1	DLXZN001P7GH	1	right	76.8	0.112	1.040	1.009	0.118	0.038	0.040	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Body										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										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 10-62
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 (Cont. 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	13.30	-0.19	0 mm	Ant 4a	V1	DLX2N001P7GH	1	back	76.8	0.751	1.175	1.009	0.890	0.323	0.383	
2441	39	Bluetooth	FHSS	14.0	13.46	0.01	0 mm	Ant 4a	V1	DLX2N001P7GH	1	back	76.8	1.000	1.132	1.009	1.142	0.422	0.482	
2441	39	Bluetooth	FHSS	14.0	13.48	0.02	0 mm	Ant 4a	V2	DLX2R01PP7GG	1	back	77.1	0.939	1.127	1.005	1.064	0.396	0.449	
2480	78	Bluetooth	FHSS	14.0	13.22	0.10	0 mm	Ant 4a	V1	DLX2N001P7GH	1	back	76.8	0.664	1.197	1.009	0.802	0.277	0.335	
2441	39	Bluetooth	FHSS	14.0	13.46	0.07	0 mm	Ant 4a	V1	DLX2N001P7GH	1	top	76.8	0.267	1.132	1.009	0.305	0.081	0.093	
2441	39	Bluetooth	FHSS	14.0	13.46	0.16	0 mm	Ant 4a	V1	DLX2N001P7GH	1	bottom	76.8	0.009	1.132	1.009	0.010	0.004	0.005	
2441	39	Bluetooth	FHSS	14.0	13.46	0.10	0 mm	Ant 4a	V1	DLX2N001P7GH	1	right	76.8	0.002	1.132	1.009	0.002	0.001	0.001	
2402	0	Bluetooth	FHSS	14.0	13.30	0.14	0 mm	Ant 4a	V1	DLX2N001P7GH	1	left	76.8	0.786	1.175	1.009	0.932	0.280	0.332	
2441	39	Bluetooth	FHSS	14.0	13.46	0.01	0 mm	Ant 4a	V1	DLX2N001P7GH	1	left	76.8	0.909	1.132	1.009	1.038	0.318	0.363	
2480	78	Bluetooth	FHSS	14.0	13.20	0.12	0 mm	Ant 4a	V1	DLX2N001P7GH	1	left	76.8	0.643	1.202	1.009	0.780	0.215	0.261	
2480	78	Bluetooth	FHSS	7.0	7.00	0.12	0 mm	Ant 4a	V1	DLX2N001P7GH	1	back	76.8	0.195	1.000	1.009	0.197	0.079	0.079	
2480	78	Bluetooth	FHSS	7.0	7.00	0.11	0 mm	Ant 4a	V1	DLX2N001P7GH	1	top	76.8	0.093	1.000	1.009	0.094	0.027	0.027	
2480	78	Bluetooth	FHSS	7.0	7.00	-0.04	0 mm	Ant 4a	V1	DLX2N001P7GH	1	left	76.8	0.109	1.000	1.009	0.110	0.040	0.040	
ANSI / IEEE C63.19-2: SAFETY LIMIT												Body								
Spatial Peak												1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population												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:

- 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.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- 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 12.1 for variability analysis.
- 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:

- 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.
- 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 $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

UMTS Notes:

- 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.
- 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

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the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

LTE Notes:

1. LTE 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 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 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, no additional measurements were required.
10. This device supports LTE Band 41 ULCA active with Power Class 2. Highest SAR test configuration for each exposure condition in Power Class 3 with ULCA active was repeated with Power Class 2 with ULCA active.

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

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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. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8 MHz, VBW = 50 MHz, and detector = peak per guidance of Section 6.0 b) of ANSI C63. 10-2013 and KDB 558074 D01 v04. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100.

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 8.7 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 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.

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	1.146	1.123	1.171	1.146*	1.171*	1.171*
	Top	0.056	0.022	0.462	0.078	0.518	0.540
	Bottom	0.564	0.493	0.017	1.057	0.581	1.074
	Right	0.015	0.550	0.000	0.565	0.015	0.565
	Left	1.187	0.000	0.789	1.187	1.187*	1.187*

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	1.117	0.247	1.171	1.364	1.171*	1.364*
	Top	0.024	0.022	0.462	0.046	0.486	0.508
	Bottom	0.455	0.086	0.017	0.541	0.472	0.558
	Right	0.900	0.134	0.000	1.034	0.900	1.034
	Left	0.005	0.000	0.789	0.005	0.794	0.794

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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	1.163	0.247	1.171	1.410	1.171*	1.410*
	Top	0.004	0.022	0.462	0.026	0.466	0.488
	Bottom	0.703	0.086	0.017	0.789	0.720	0.806
	Right	0.054	0.134	0.000	0.188	0.054	0.188
	Left	0.026	0.000	0.789	0.026	0.815	0.815

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	1.149	1.123	1.171	1.149*	1.171*	1.171*
	Top	0.943	0.022	0.462	0.965	1.405	1.427
	Bottom	0.037	0.493	0.017	0.530	0.054	0.547
	Right	1.149	0.550	0.000	1.149*	1.149	1.149*
	Left	0.011	0.000	0.789	0.011	0.800	0.800

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	1.169	1.123	0.228	1.169*	1.397	1.397*
	Top	0.372	0.022	0.108	0.394	0.480	0.502
	Bottom	0.016	0.493	0.017	0.509	0.033	0.526
	Right	0.004	0.550	0.000	0.554	0.004	0.554
	Left	1.072	0.000	0.159	1.072	1.231	1.231

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	1.189	1.123	0.228	1.189*	1.417	1.417*
	Top	0.795	0.022	0.108	0.817	0.903	0.925
	Bottom	0.007	0.493	0.017	0.500	0.024	0.517
	Right	0.039	0.550	0.000	0.589	0.039	0.589
	Left	0.066	0.000	0.159	0.066	0.225	0.225

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	1.146	0.126	0.128	1.272	1.274	1.400
	Top	0.056	0.000	0.004	0.056	0.060	0.060
	Bottom	0.564	0.000	0.004	0.564	0.568	0.568
	Right	0.015	1.188	1.122	1.203	1.137	1.203*
	Left	1.187	0.014	0.015	1.201	1.202	1.216

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	1.117	0.096	0.128	1.213	1.245	1.341
	Top	0.024	0.000	0.004	0.024	0.028	0.028
	Bottom	0.455	0.000	0.004	0.455	0.459	0.459
	Right	0.900	0.528	1.122	1.428	1.122*	1.428*
	Left	0.005	0.014	0.015	0.019	0.020	0.034

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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 ANTower 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	1.163	0.126	0.128	1.289	1.291	1.417
	Top	0.004	0.000	0.004	0.004	0.008	0.008
	Bottom	0.703	0.000	0.004	0.703	0.707	0.707
	Right	0.054	1.188	1.122	1.242	1.176	1.242*
	Left	0.026	0.014	0.015	0.040	0.041	0.055

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 ANTower 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	1.149	0.126	0.086	1.275	1.235	1.361
	Top	0.943	0.000	0.004	0.943	0.947	0.947
	Bottom	0.037	0.000	0.004	0.037	0.041	0.041
	Right	1.149	1.188	0.341	1.188*	1.490	1.490*
	Left	0.011	0.014	0.015	0.025	0.026	0.040

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 ANTower 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	1.169	0.126	0.128	1.295	1.297	1.423
	Top	0.372	0.000	0.004	0.372	0.376	0.376
	Bottom	0.016	0.000	0.004	0.016	0.020	0.020
	Right	0.004	1.188	1.122	1.192	1.126	1.192*
	Left	1.072	0.014	0.015	1.086	1.087	1.101

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 ANTower 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	1.189	0.126	0.128	1.315	1.317	1.443
	Top	0.795	0.000	0.004	0.795	0.799	0.799
	Bottom	0.007	0.000	0.004	0.007	0.011	0.011
	Right	0.039	1.188	1.122	1.227	1.161	1.227*
	Left	0.066	0.014	0.015	0.080	0.081	0.095

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	1.146	0.195	1.142	1.341	1.146*	1.146*
	Top	0.056	0.011	0.305	0.067	0.361	0.372
	Bottom	0.564	0.072	0.010	0.636	0.574	0.646
	Right	0.015	0.118	0.002	0.133	0.017	0.135
	Left	1.187	0.002	1.038	1.189	1.187*	1.189*

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	1.117	0.195	1.142	1.312	1.142*	1.312*
	Top	0.024	0.011	0.305	0.035	0.329	0.340
	Bottom	0.455	0.072	0.010	0.527	0.465	0.537
	Right	0.900	0.118	0.002	1.018	0.902	1.020
	Left	0.005	0.002	1.038	0.007	1.043	1.045

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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	1.163	0.195	1.142	1.358	1.163*	1.358*
	Top	0.004	0.011	0.305	0.015	0.309	0.320
	Bottom	0.703	0.072	0.010	0.775	0.713	0.785
	Right	0.054	0.118	0.002	0.172	0.056	0.174
	Left	0.026	0.002	1.038	0.028	1.064	1.066

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	1.149	1.175	0.197	1.175*	1.346	1.175*
	Top	0.943	0.011	0.094	0.954	1.037	1.048
	Bottom	0.037	0.304	0.010	0.341	0.047	0.351
	Right	1.149	0.583	0.002	1.149*	1.151	1.151*
	Left	0.011	0.002	0.110	0.013	0.121	0.123

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	1.169	1.175	0.197	1.175*	1.366	1.366*
	Top	0.372	0.011	0.094	0.383	0.466	0.477
	Bottom	0.016	0.304	0.010	0.320	0.026	0.330
	Right	0.004	0.583	0.002	0.587	0.006	0.589
	Left	1.072	0.002	0.110	1.074	1.182	1.184

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 SAR	Back	1.189	1.175	0.197	1.189*	1.386	1.386*
	Top	0.795	0.011	0.094	0.806	0.889	0.900
	Bottom	0.007	0.304	0.010	0.311	0.017	0.321
	Right	0.039	0.583	0.002	0.622	0.041	0.624
	Left	0.066	0.002	0.110	0.068	0.176	0.178

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	1.146	0.195	1.142	0.126	0.128	1.400*
	Top	0.056	0.011	0.305	0.000	0.004	0.376
	Bottom	0.564	0.072	0.010	0.000	0.004	0.650
	Right	0.015	0.118	0.002	1.188	1.122	1.323*
	Left	1.187	0.002	1.038	0.014	0.015	1.218*

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	1.117	0.195	1.142	0.096	0.128	1.536*
	Top	0.024	0.011	0.305	0.000	0.004	0.344
	Bottom	0.455	0.072	0.010	0.000	0.004	0.541
	Right	0.900	0.118	0.002	0.528	1.122	1.548*
	Left	0.005	0.002	1.038	0.014	0.015	1.074

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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	1.163	0.195	1.142	0.126	0.128	1.484*
	Top	0.004	0.011	0.305	0.000	0.004	0.324
	Bottom	0.703	0.072	0.010	0.000	0.004	0.789
	Right	0.054	0.118	0.002	1.188	1.122	1.362*
	Left	0.026	0.002	1.038	0.014	0.015	1.095

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	1.149	0.457	0.197	0.126	0.086	1.361*
	Top	0.943	0.011	0.094	0.000	0.004	1.052
	Bottom	0.037	0.174	0.010	0.000	0.004	0.225
	Right	1.149	0.293	0.002	1.188	0.341	1.492*
	Left	0.011	0.002	0.110	0.014	0.015	0.152

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	1.169	0.457	0.197	0.126	0.128	1.514*
	Top	0.372	0.011	0.094	0.000	0.004	0.481
	Bottom	0.016	0.174	0.010	0.000	0.004	0.204
	Right	0.004	0.293	0.002	1.188	1.122	1.487*
	Left	1.072	0.002	0.110	0.014	0.015	1.213

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	1.189	0.457	0.197	0.126	0.128	1.514*
	Top	0.795	0.011	0.094	0.000	0.004	0.904
	Bottom	0.007	0.174	0.010	0.000	0.004	0.195
	Right	0.039	0.293	0.002	1.188	1.122	1.522*
	Left	0.066	0.002	0.110	0.014	0.015	0.207

Table 11-25

Inter-Band ULCA Cellular Band Ant 1 and 2A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 2a Inter-Band ULCA Active SAR (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	0.720	0.559	0.247	0.228	1.526	1.507	0.806*
	Top	0.056	0.018	0.022	0.108	0.096	0.182	0.204
	Bottom	0.564	0.364	0.086	0.017	1.014	0.945	1.031
	Right	0.015	0.618	0.134	0.000	0.767	0.633	0.767
	Left	0.467	0.005	0.000	0.159	0.472	0.631	0.631

Table 11-26

Inter-Band ULCA Cellular Band Ant 1 and 4A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-Band ULCA Active SAR (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	0.720	0.580	0.247	0.228	1.547	1.528	0.808*
	Top	0.056	0.372	0.022	0.108	0.450	0.536	0.558
	Bottom	0.564	0.016	0.086	0.017	0.666	0.597	0.683
	Right	0.015	0.001	0.134	0.000	0.150	0.016	0.150
	Left	0.467	0.786	0.000	0.159	1.253	1.412	1.412

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Table 11-27

Inter-Band ULCA Cellular Band Ant 1 and 4B Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 4b Inter-Band ULCA Active SAR (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	0.720	0.555	0.247	0.228	1.522	1.503	1.275*
	Top	0.056	0.699	0.022	0.108	0.777	0.863	0.885
	Bottom	0.564	0.002	0.086	0.017	0.652	0.583	0.669
	Right	0.015	0.033	0.134	0.000	0.182	0.048	0.182
	Left	0.467	0.054	0.000	0.159	0.521	0.680	0.680

Table 11-28

Inter-Band ULCA Cellular Band Ant 2A and 3 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2a Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-Band ULCA Active SAR (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	0.559	0.541	0.247	0.228	1.347	1.328	1.575
	Top	0.018	0.595	0.022	0.108	0.635	0.721	0.743
	Bottom	0.364	0.032	0.086	0.017	0.482	0.413	0.499
	Right	0.618	0.761	0.134	0.000	1.513	1.379	1.513
	Left	0.005	0.011	0.000	0.159	0.016	0.175	0.175

Table 11-29

Inter-Band ULCA Cellular Band Ant 2B and 3 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2b Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-Band ULCA Active SAR (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	0.578	0.541	0.247	0.228	1.366	1.347	1.594
	Top	0.004	0.595	0.022	0.108	0.621	0.707	0.729
	Bottom	0.669	0.032	0.086	0.017	0.787	0.718	0.804
	Right	0.047	0.761	0.134	0.000	0.942	0.808	0.942
	Left	0.025	0.011	0.000	0.159	0.036	0.195	0.195

Table 11-30

Inter-Band ULCA Cellular Band Ant 3 and 4A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 3 Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-Band ULCA Active SAR (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	0.541	0.580	0.247	0.228	1.368	1.349	0.808*
	Top	0.595	0.372	0.022	0.108	0.989	1.075	1.097
	Bottom	0.032	0.016	0.086	0.017	0.134	0.065	0.151
	Right	0.761	0.001	0.134	0.000	0.896	0.762	0.896
	Left	0.011	0.786	0.000	0.159	0.797	0.956	0.956

Table 11-31

Inter-Band ULCA Cellular Band Ant 1 and 2A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 2a Inter-Band ULCA Active SAR (W/kg)	WLAN 5GHz ANTower 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	0.720	0.559	0.096	0.086	1.375	1.365	1.461
	Top	0.056	0.018	0.000	0.004	0.074	0.078	0.078
	Bottom	0.564	0.364	0.000	0.004	0.928	0.932	0.932
	Right	0.015	0.618	0.528	0.341	1.161	0.974	1.502
	Left	0.467	0.005	0.014	0.015	0.486	0.487	0.501

Table 11-32

Inter-Band ULCA Cellular Band Ant 1 and 4A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-Band ULCA Active SAR (W/kg)	WLAN 5GHz ANTower 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	0.720	0.580	0.096	0.086	1.396	1.386	1.482
	Top	0.056	0.372	0.000	0.004	0.428	0.432	0.432
	Bottom	0.564	0.016	0.000	0.004	0.580	0.584	0.584
	Right	0.015	0.001	0.528	0.341	0.544	0.357	0.885
	Left	0.467	0.786	0.014	0.015	1.267	1.268	1.282

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Table 11-33

Inter-Band ULCA Cellular Band Ant 1 and 4B Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4b Inter-band ULCA Active SAR (W/kg)	WLAN 5GHz ANTower 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	0.720	0.555	0.096	0.086	1.371	1.361	1.467
	Top	0.056	0.699	0.000	0.004	0.755	0.759	0.759
	Bottom	0.564	0.002	0.000	0.004	0.566	0.570	0.570
	Right	0.015	0.033	0.528	0.341	0.576	0.389	0.917
	Left	0.467	0.054	0.014	0.015	0.535	0.536	0.550

Table 11-34

Inter-Band ULCA Cellular Band Ant 2A and 3 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2a Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	WLAN 5GHz ANTower 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	0.559	0.541	0.096	0.086	1.196	1.186	1.282
	Top	0.018	0.595	0.000	0.004	0.613	0.617	0.617
	Bottom	0.364	0.032	0.000	0.004	0.396	0.400	0.400
	Right	0.618	0.761	0.528	0.341	1.146*	1.102*	1.146*
	Left	0.005	0.011	0.014	0.015	0.030	0.031	0.045

Table 11-35

Inter-Band ULCA Cellular Band Ant 2B and 3 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2b Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	WLAN 5GHz ANTower 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	0.578	0.541	0.096	0.086	1.215	1.205	1.301
	Top	0.004	0.595	0.000	0.004	0.599	0.603	0.603
	Bottom	0.669	0.032	0.000	0.004	0.701	0.705	0.705
	Right	0.047	0.761	0.528	0.341	1.336	1.149	1.149*
	Left	0.025	0.011	0.014	0.015	0.050	0.051	0.065

Table 11-36

Inter-Band ULCA Cellular Band Ant 3 and 4A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active SAR (W/kg)	WLAN 5GHz ANTower 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	0.541	0.580	0.096	0.086	1.217	1.207	1.303
	Top	0.595	0.372	0.000	0.004	0.967	0.971	0.971
	Bottom	0.032	0.016	0.000	0.004	0.048	0.052	0.052
	Right	0.761	0.001	0.528	0.341	1.290	1.103	1.103*
	Left	0.011	0.786	0.014	0.015	0.811	0.812	0.826

Table 11-37

Inter-Band ULCA Cellular Band Ant 1 and 2A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 2a Inter-Band ULCA Active SAR (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	0.720	0.559	0.195	0.197	1.474	1.476	0.754*
	Top	0.056	0.018	0.011	0.094	0.085	0.168	0.179
	Bottom	0.564	0.364	0.072	0.010	1.000	0.938	1.010
	Right	0.015	0.618	0.118	0.002	0.751	0.635	0.753
	Left	0.467	0.005	0.002	0.110	0.474	0.582	0.584

Table 11-38

Inter-Band ULCA Cellular Band Ant 1 and 4A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-Band ULCA Active SAR (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	0.720	0.580	0.195	0.197	1.495	1.497	0.777*
	Top	0.056	0.372	0.011	0.094	0.439	0.522	0.533
	Bottom	0.564	0.016	0.072	0.010	0.652	0.590	0.662
	Right	0.015	0.001	0.118	0.002	0.134	0.018	0.136
	Left	0.467	0.786	0.002	0.110	1.255	1.363	1.365

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Table 11-39

Inter-Band ULCA Cellular Band Ant 1 and 4B Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 4b Inter-Band ULCA Active SAR (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	0.720	0.555	0.195	0.197	1.470	1.472	1.275*
	Top	0.056	0.699	0.011	0.094	0.766	0.849	0.860
	Bottom	0.564	0.002	0.072	0.010	0.638	0.576	0.648
	Right	0.015	0.033	0.118	0.002	0.166	0.050	0.168
	Left	0.467	0.054	0.002	0.110	0.523	0.631	0.633

Table 11-40

Inter-Band ULCA Cellular Band Ant 2A and 3 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 2a Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-Band ULCA Active SAR (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	0.559	0.541	0.195	0.197	1.295	1.297	1.492
	Top	0.018	0.595	0.011	0.094	0.624	0.707	0.718
	Bottom	0.364	0.032	0.072	0.010	0.468	0.406	0.478
	Right	0.618	0.761	0.118	0.002	1.497	1.381	1.499
	Left	0.005	0.011	0.002	0.110	0.018	0.126	0.128

Table 11-41

Inter-Band ULCA Cellular Band Ant 2B and 3 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 2b Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-Band ULCA Active SAR (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	0.578	0.541	0.195	0.197	1.314	1.316	1.511
	Top	0.004	0.595	0.011	0.094	0.610	0.693	0.704
	Bottom	0.669	0.032	0.072	0.010	0.773	0.711	0.783
	Right	0.047	0.761	0.118	0.002	0.926	0.810	0.928
	Left	0.025	0.011	0.002	0.110	0.038	0.146	0.148

Table 11-42

Inter-Band ULCA Cellular Band Ant 3 and 4A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 3 Inter-Band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-Band ULCA Active SAR (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	0.541	0.580	0.195	0.197	1.316	1.318	1.513
	Top	0.595	0.372	0.011	0.094	0.978	1.061	1.072
	Bottom	0.032	0.016	0.072	0.010	0.120	0.058	0.130
	Right	0.761	0.001	0.118	0.002	0.880	0.764	0.882
	Left	0.011	0.786	0.002	0.110	0.799	0.907	0.909

Table 11-43

Inter-Band ULCA Cellular Band 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 SAR (W/kg)	Cellular Band Antenna 2a Inter-Band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	WLAN 5GHz ANT Tower Reduced SAR (W/kg)	WLAN 5GHz ANT Upper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.720	0.559	0.195	0.197	0.096	0.086	0.926*
	Top	0.056	0.018	0.011	0.094	0.000	0.004	0.183
	Bottom	0.564	0.364	0.072	0.010	0.000	0.004	1.014
	Right	0.015	0.618	0.118	0.002	0.528	0.341	1.281*
	Left	0.467	0.005	0.002	0.110	0.014	0.015	0.613

Table 11-44

Inter-Band ULCA Cellular Band 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 SAR (W/kg)	Cellular Band Antenna 4a Inter-Band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	WLAN 5GHz ANT Tower Reduced SAR (W/kg)	WLAN 5GHz ANT Upper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.720	0.580	0.195	0.197	0.096	0.086	0.863*
	Top	0.056	0.372	0.011	0.094	0.000	0.004	0.537
	Bottom	0.564	0.016	0.072	0.010	0.000	0.004	0.666
	Right	0.015	0.001	0.118	0.002	0.528	0.341	1.005
	Left	0.467	0.786	0.002	0.110	0.014	0.015	1.394

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Table 11-45

Inter-Band ULCA Cellular Band 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 SAR (W/kg)	Cellular Band Antenna 4b Inter-band ULCA Active SAR (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	0.720	0.555	0.195	0.197	0.096	0.086	1.961*
	Top	0.056	0.099	0.011	0.094	0.000	0.004	0.864
	Bottom	0.564	0.002	0.072	0.010	0.000	0.004	0.652
	Right	0.015	0.033	0.118	0.002	0.528	0.341	1.037
	Left	0.467	0.054	0.002	0.110	0.014	0.015	0.662

Table 11-46

Inter-Band ULCA Cellular Band 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 SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (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	0.559	0.541	0.195	0.197	0.096	0.086	0.926*
	Top	0.018	0.595	0.011	0.094	0.000	0.004	0.722
	Bottom	0.364	0.032	0.072	0.010	0.000	0.004	0.482
	Right	0.618	0.761	0.118	0.002	0.528	0.341	1.266*
	Left	0.005	0.011	0.002	0.110	0.014	0.015	0.157

Table 11-47

Inter-Band ULCA Cellular Band 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 SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (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	0.578	0.541	0.195	0.197	0.096	0.086	0.869*
	Top	0.004	0.595	0.011	0.094	0.000	0.004	0.708
	Bottom	0.669	0.032	0.072	0.010	0.000	0.004	0.787
	Right	0.047	0.761	0.118	0.002	0.528	0.341	1.151*
	Left	0.025	0.011	0.002	0.110	0.014	0.015	0.177

Table 11-48

Inter-Band ULCA Cellular Band 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 SAR (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active SAR (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	0.541	0.580	0.195	0.197	0.096	0.086	0.863*
	Top	0.595	0.372	0.011	0.094	0.000	0.004	1.076
	Bottom	0.032	0.016	0.072	0.010	0.000	0.004	0.134
	Right	0.761	0.001	0.118	0.002	0.528	0.341	1.105*
	Left	0.011	0.786	0.002	0.110	0.014	0.015	0.938

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)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.457	1.142	0.126	0.128	1.270*
	Top	0.011	0.305	0.000	0.004	0.320
	Bottom	0.174	0.010	0.000	0.004	0.188
	Right	0.293	0.002	1.188	1.122	1.483*
	Left	0.002	1.038	0.014	0.015	1.069

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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)
		2	2	1+2
Body SAR	Back	1.175	1.142	1.175*
	Top	0.011	0.305	0.316
	Bottom	0.304	0.010	0.314
	Right	0.583	0.002	0.585
	Left	0.002	1.038	1.040

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.

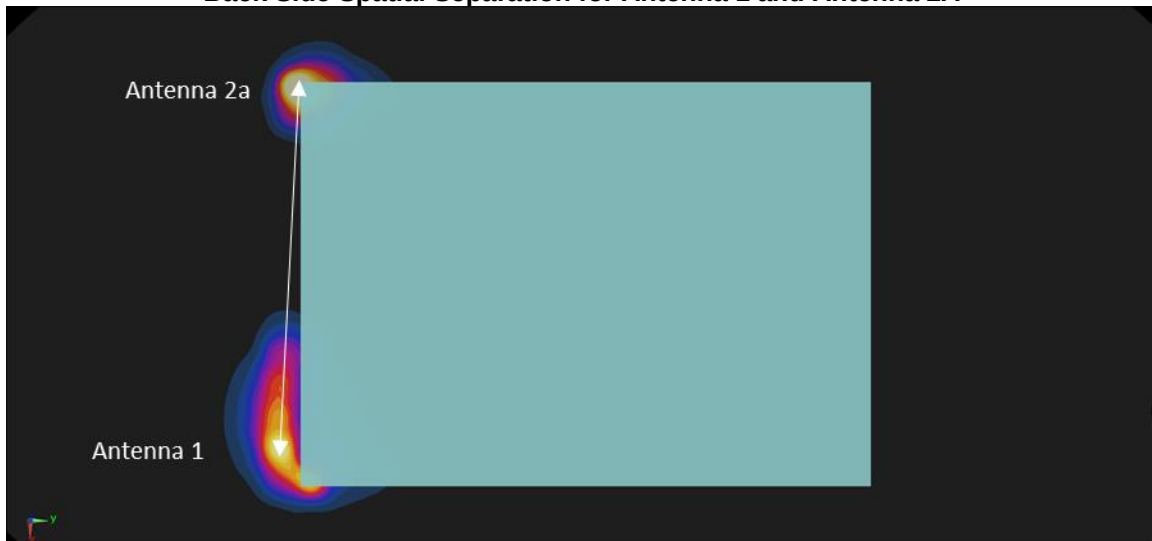
11.4 Spatial Separation Analysis

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

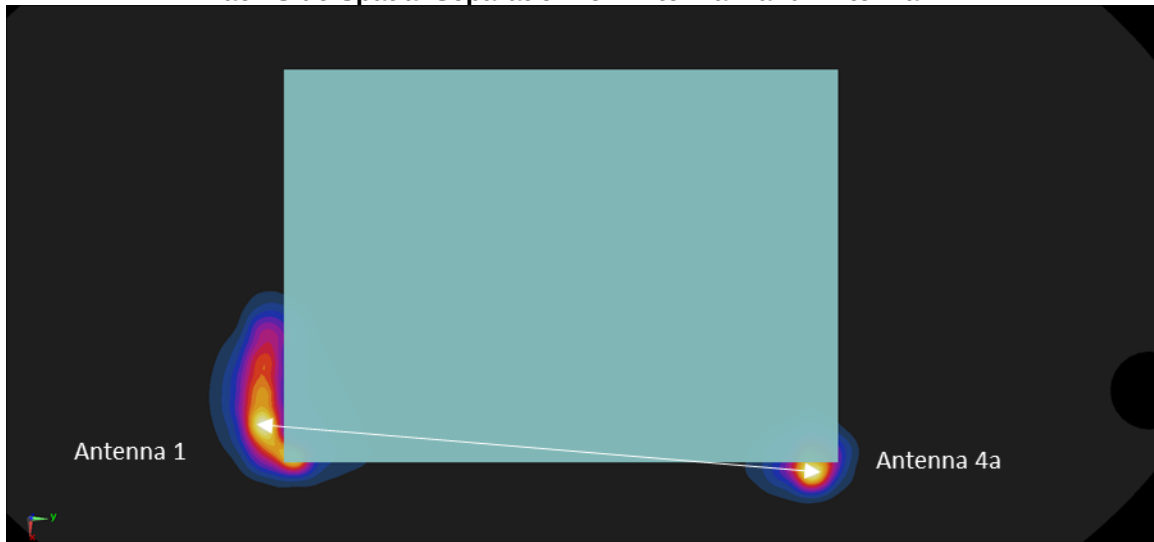
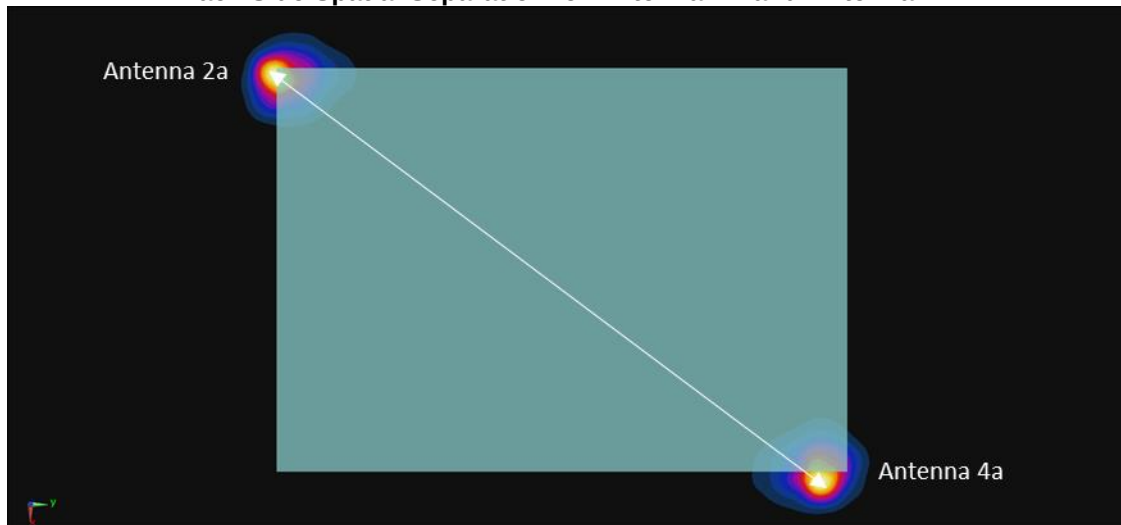


Figure 11-3
Back Side Spatial Separation for Antenna 2A and Antenna 4A



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Figure 11-4
Back Side Spatial Separation for Antenna 2A and Antenna 4B

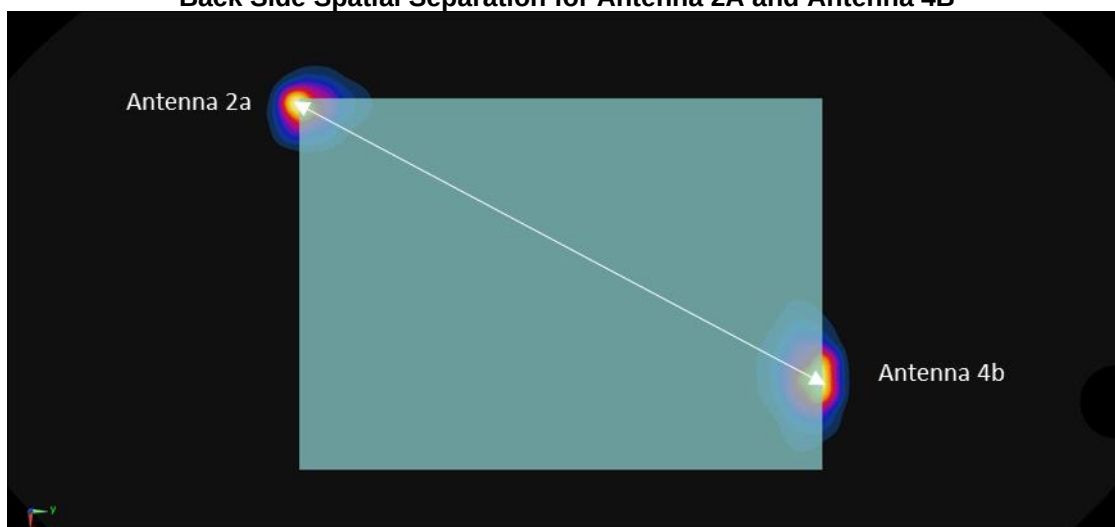
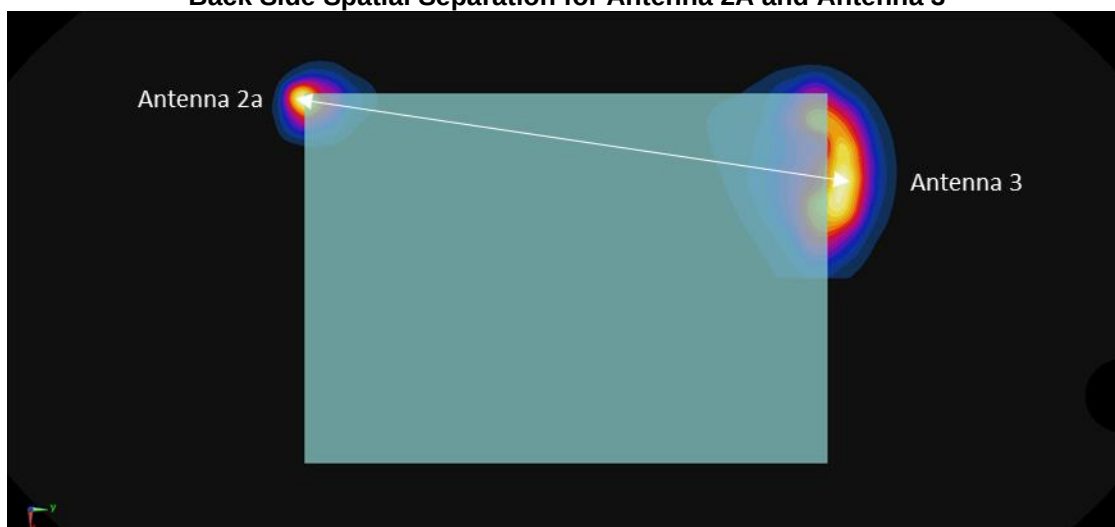


Figure 11-5
Back Side Spatial Separation for Antenna 2A and Antenna 3



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Figure 11-6
Back Side Spatial Separation for Antenna 2B and Antenna 4A

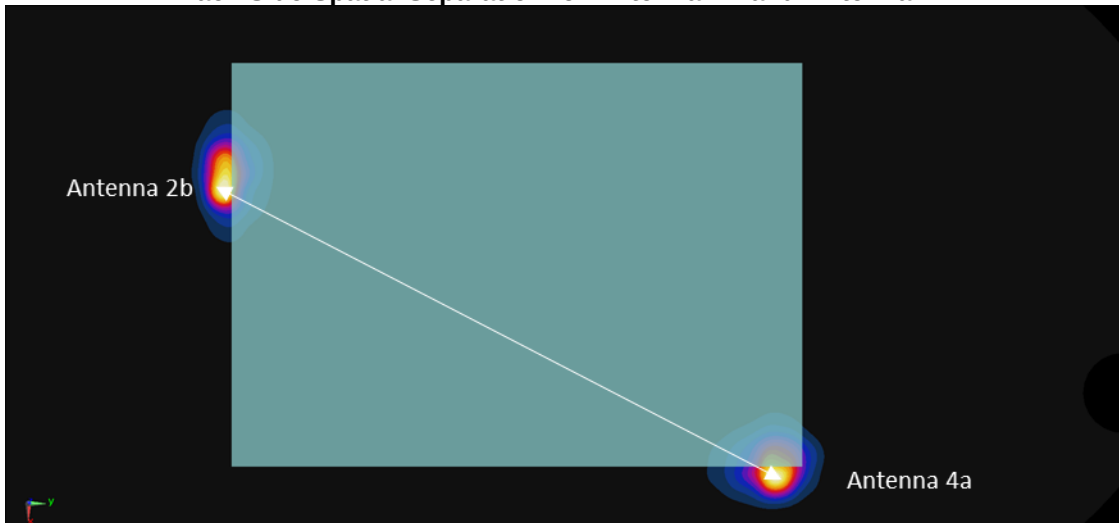
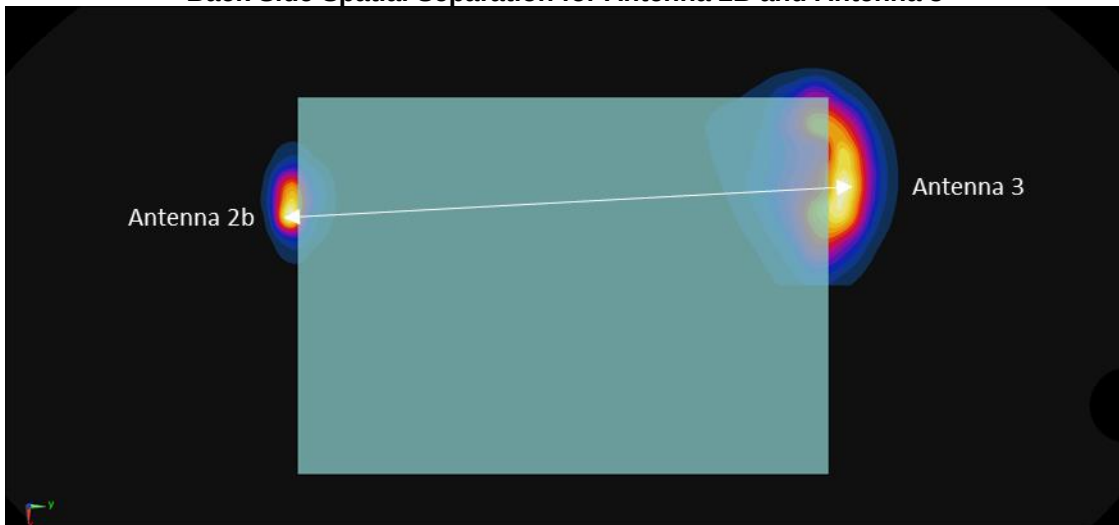


Figure 11-7
Back Side Spatial Separation for Antenna 2B and Antenna 3



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Figure 11-8
Back Side Spatial Separation for Antenna 2B and 5GHz ANTupper

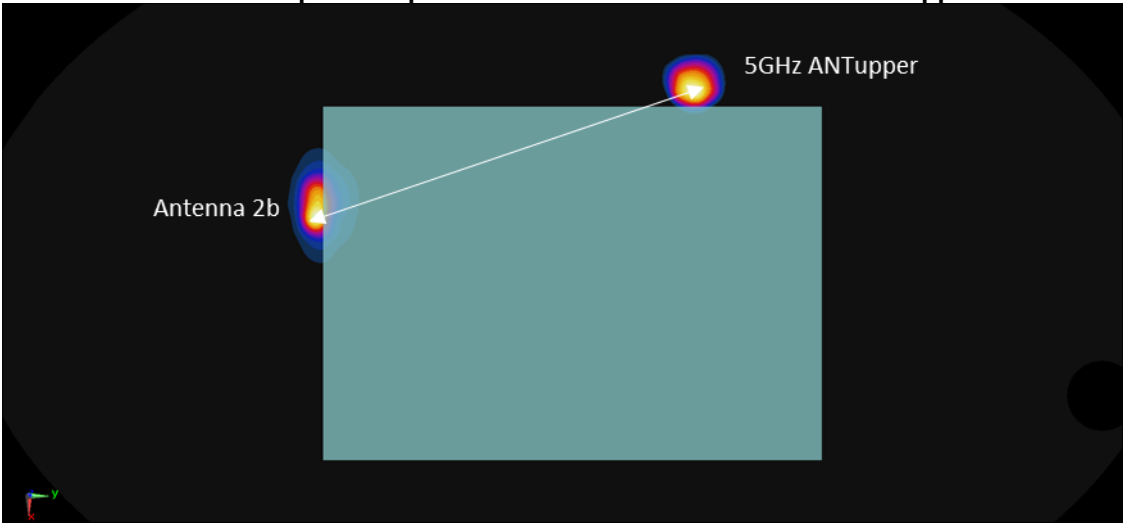
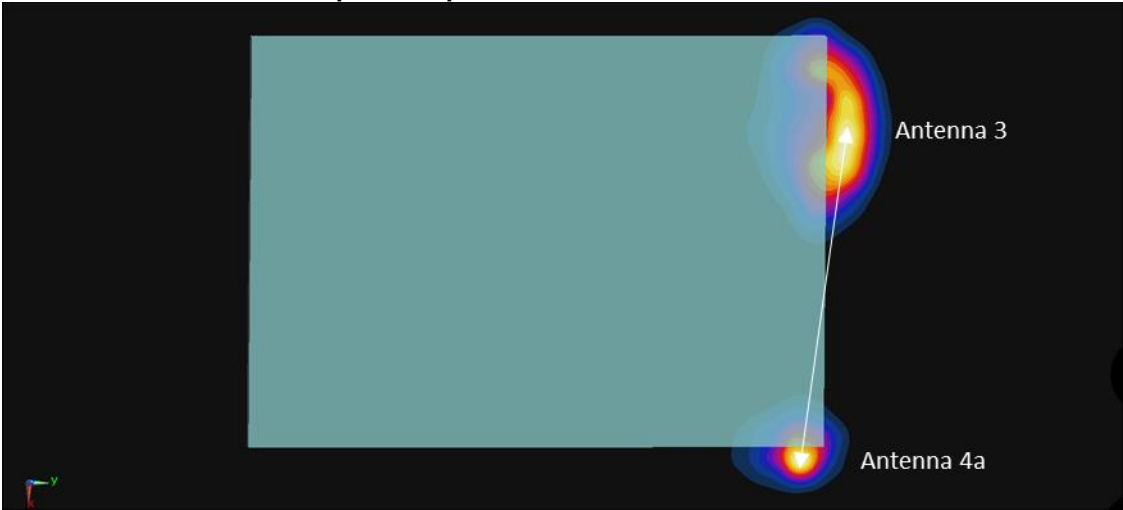


Figure 11-9
Back Side Spatial Separation for Antenna 4A and Antenna 3



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Figure 11-10
Back Side Spatial Separation for Antenna 4A and 5GHz ANTlower

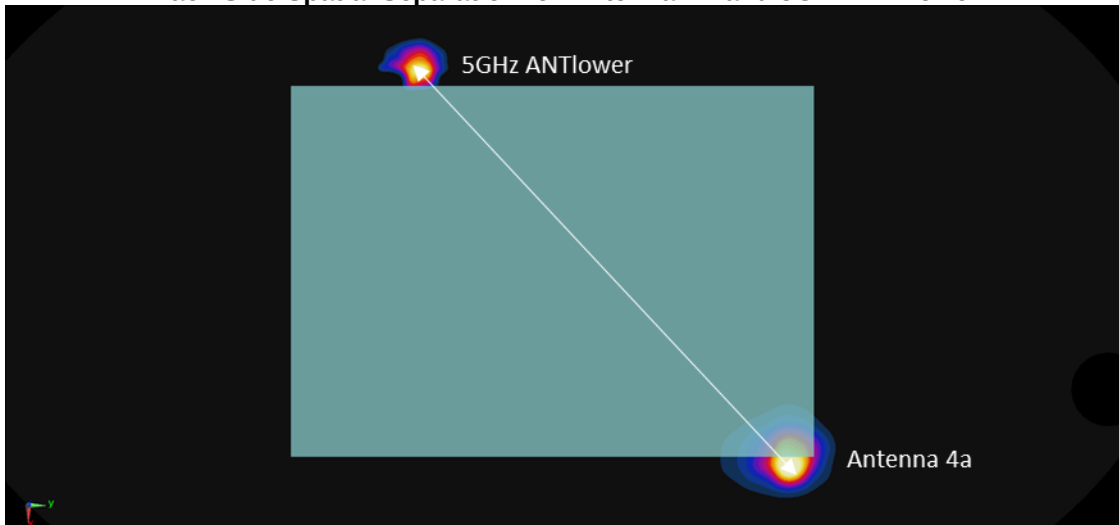
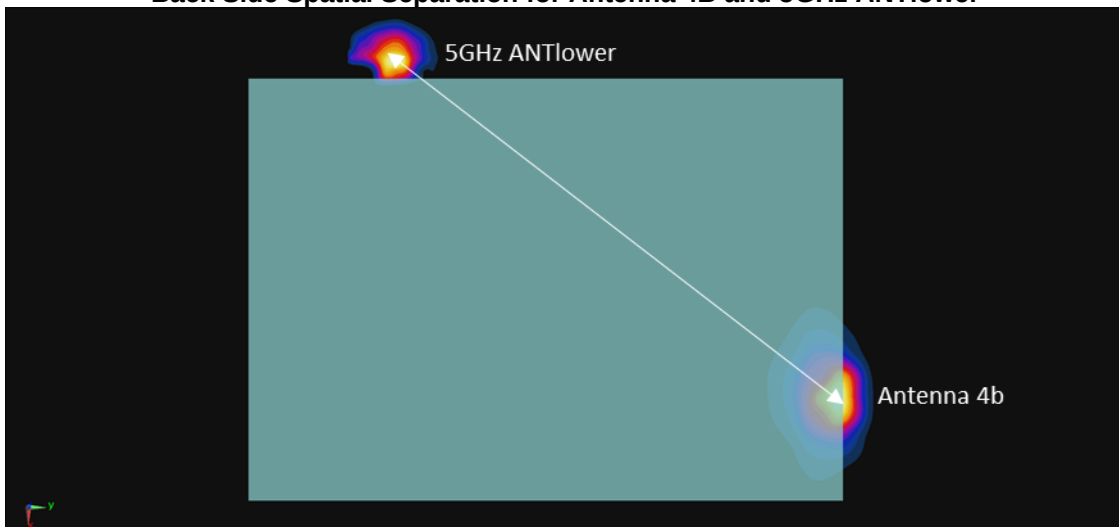


Figure 11-11
Back Side Spatial Separation for Antenna 4B and 5GHz ANTlower



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11.4.2 Right Edge Spatial Separation Analysis

Figure 11-12
Right Edge Spatial Separation for Antenna 2A and Antenna 3

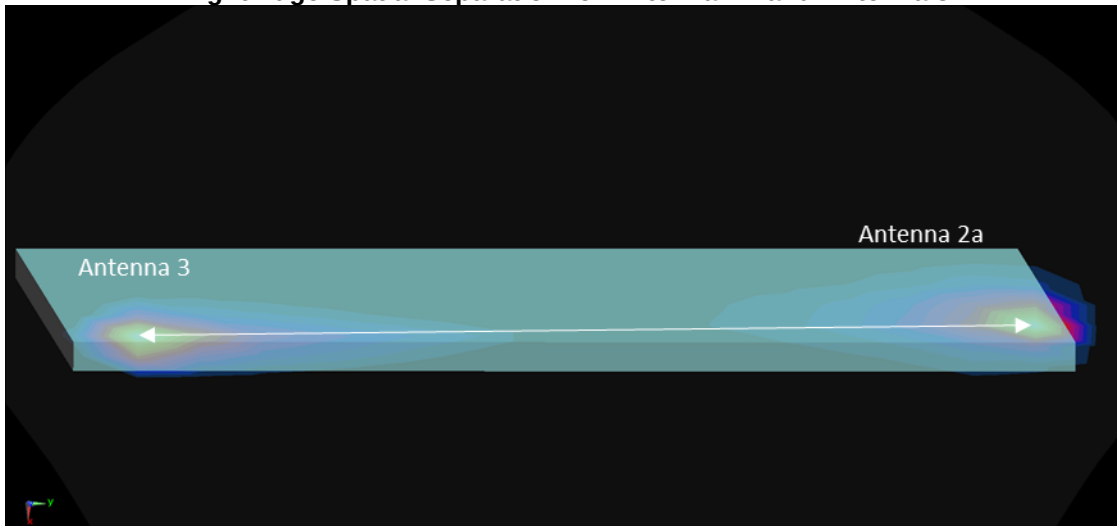
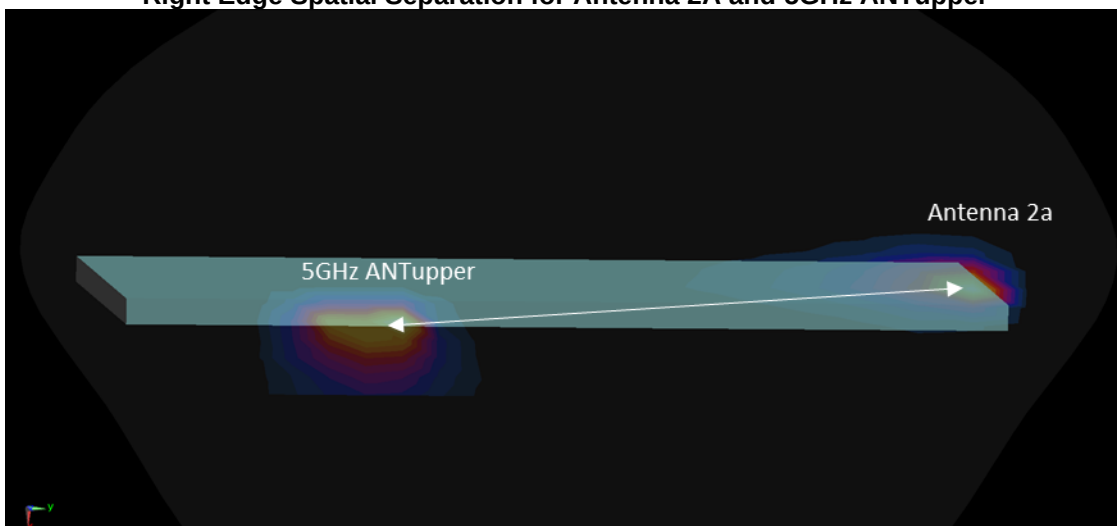


Figure 11-13
Right Edge Spatial Separation for Antenna 2A and 5GHz ANTupper



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Figure 11-14
Right Edge Spatial Separation for Antenna 3 and 5GHz ANTlower

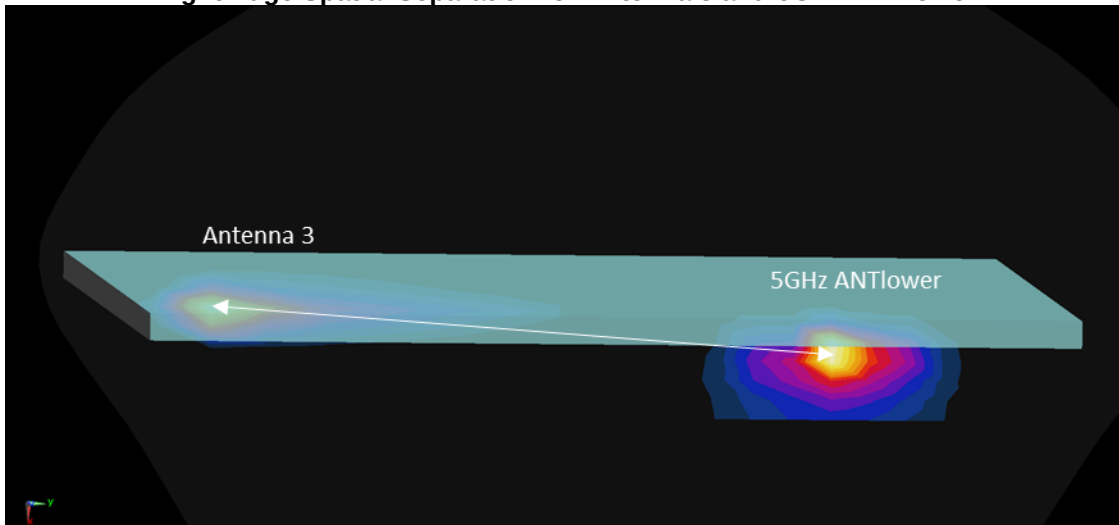
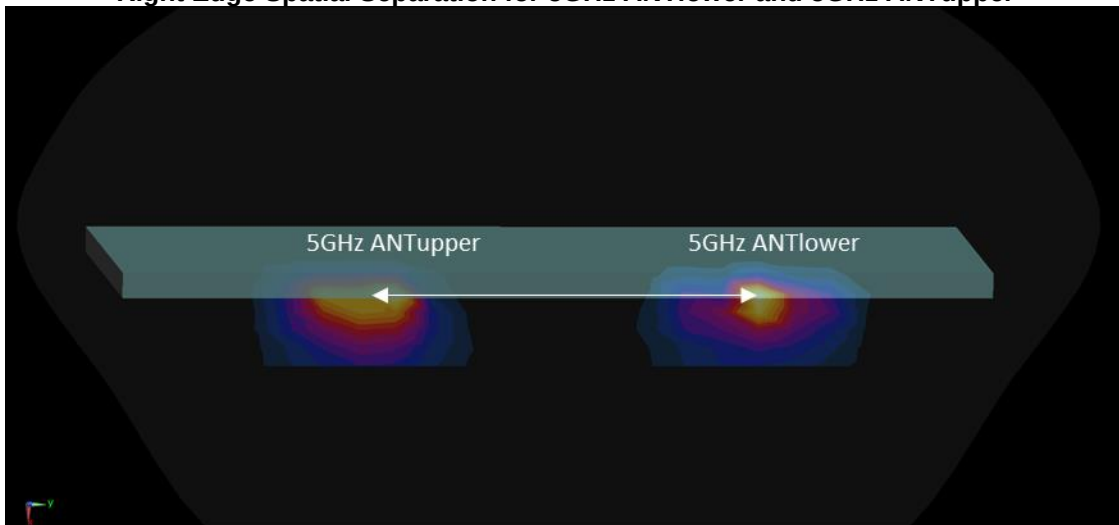


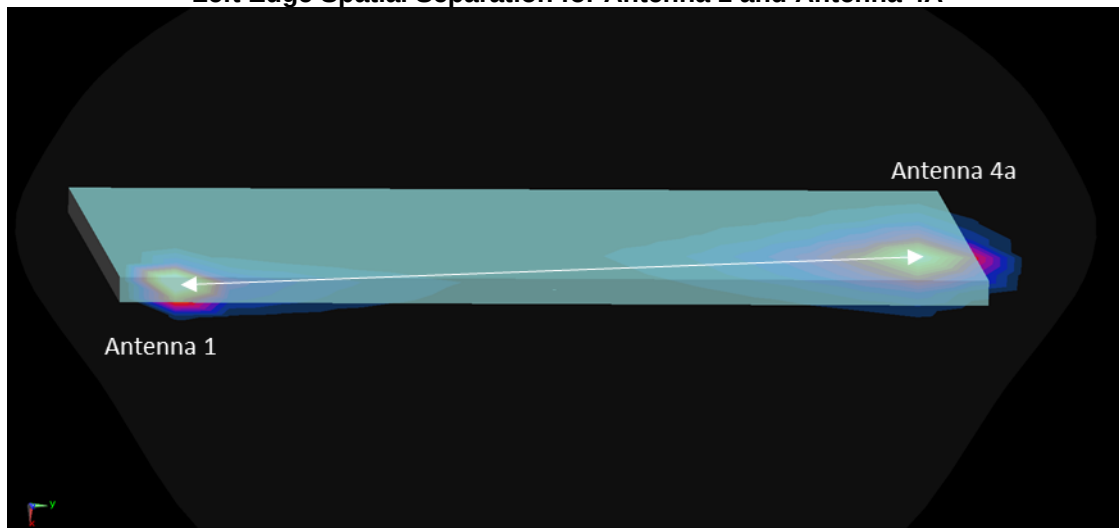
Figure 11-15
Right Edge Spatial Separation for 5GHz ANTlower and 5GHz ANTupper



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11.4.3 Left Edge Spatial Separation Analysis

Figure 11-16
Left Edge 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 ($\sim 10\%$ 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	Antenna Config	Service	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
750	782.00	23230	LTE Band 13, 10 MHz Bandwidth	Ant 1	QPSK, 1 RB, 0 RB Offset	N/A	left	0 mm	1.090	0.963	1.13	N/A	N/A	N/A	N/A
835	836.50	20525	LTE Band 5 (Cell), 10 MHz Bandwidth	Ant 1	QPSK, 50 RB, 0 RB Offset	N/A	left	0 mm	1.160	1.100	1.05	N/A	N/A	N/A	N/A
1750	1720.00	132072	LTE Band 66 (AWS), 20 MHz Bandwidth	Ant 2a	QPSK, 1 RB, 0 RB Offset	N/A	back	0 mm	1.030	1.010	1.02	N/A	N/A	N/A	N/A
1900	1905.00	26590	LTE Band 25 (PCS), 20 MHz Bandwidth	Ant 2b	QPSK, 100 RB, 0 RB Offset	N/A	back	0 mm	1.090	1.070	1.02	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	Ant 4b	QPSK, 50 RB, 0 RB Offset	N/A	back	0 mm	1.090	1.010	1.08	N/A	N/A	N/A	N/A
2450	2480.00	78	Bluetooth	Ant 2a	FHSS	1	back	0 mm	1.050	1.030	1.02	N/A	N/A	N/A	N/A
2600	2593.00	40620	LTE Band 41, 20 MHz Bandwidth	Ant 4b	QPSK, 50 RB, 25 RB Offset	N/A	back	0 mm	1.170	1.150	1.02	N/A	N/A	N/A	N/A
3500	3560.00	55340	LTE Band 48, 20 MHz Bandwidth	Ant 2b	QPSK, 1 RB, 0 RB Offset	N/A	back	0 mm	1.090	1.070	1.02	N/A	N/A	N/A	N/A
3700	3646.70	56207	LTE Band 48, 20 MHz Bandwidth	Ant 1	QPSK, 1 RB, 0 RB Offset	N/A	back	0 mm	1.060	1.000	1.06	N/A	N/A	N/A	N/A
5250	5270.00	54	802.11n, 40 MHz Bandwidth	5GHz ANTupper	OFDM	13.5	right	0 mm	0.840	0.821	1.02	N/A	N/A	N/A	N/A
5600	5610.00	122	802.11ac, 80 MHz Bandwidth	5GHz ANTlower	OFDM	29.3	right	0 mm	0.896	0.892	1.00	N/A	N/A	N/A	N/A
5750	5690.00	138	802.11ac, 80 MHz Bandwidth	5GHz ANTlower	OFDM	29.3	right	0 mm	0.910	0.868	1.05	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body 1.6 W/kg (mW/g) averaged over 1 gram						
Spatial Peak Uncontrolled Exposure/General Population															

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

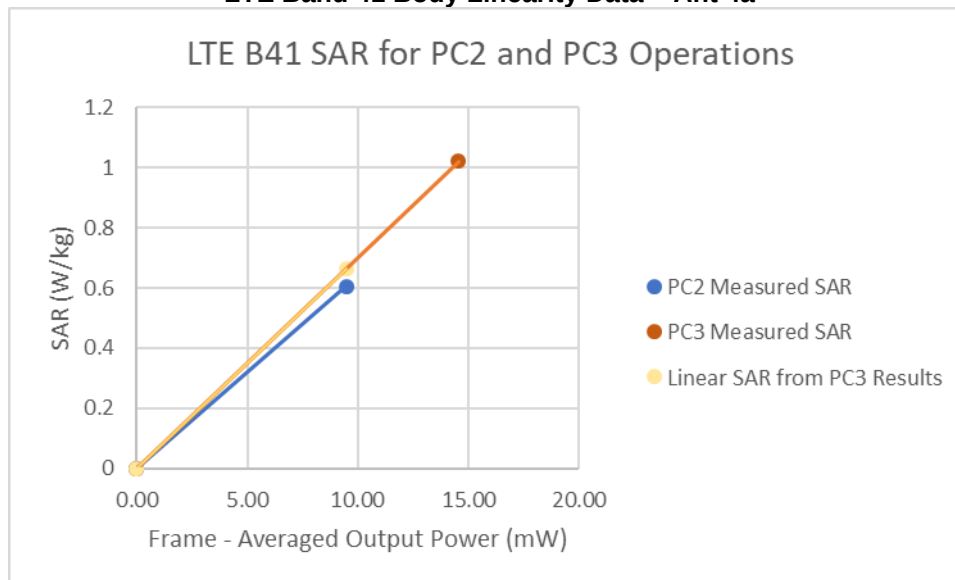
This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with 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 4a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.61	13.4
Measured SAR (W/kg)	1.02	0.606
Measured Power (mW)	22.96	21.88
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.53	9.47
% deviation from expected linearity		-8.84%

Figure 13-1
LTE Band 41 Body Linearity Data – Ant 4a

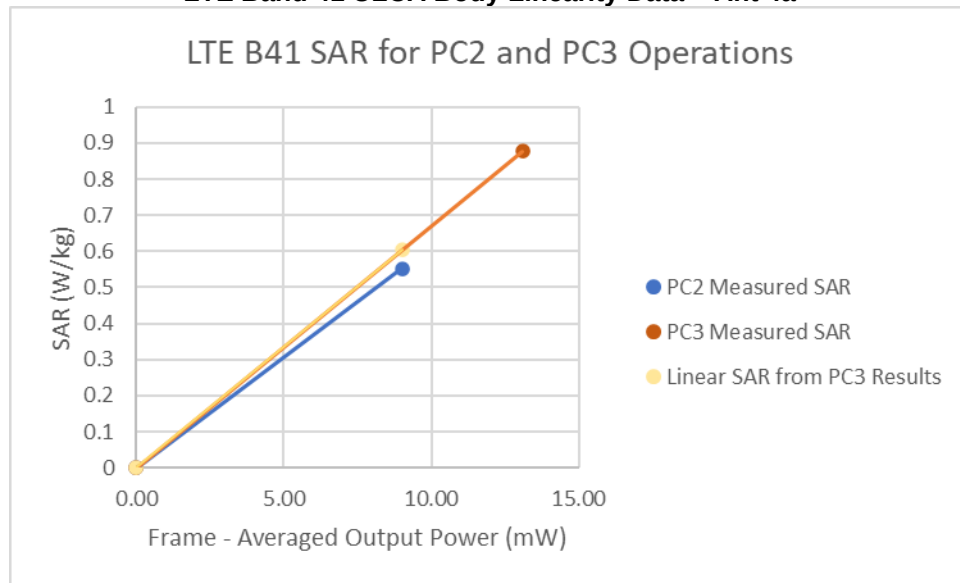


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Table 13-2
LTE Band 41 ULCA Body Linearity Data – Ant 4a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.16	13.18
Measured SAR (W/kg)	0.877	0.552
Measured Power (mW)	20.70	20.80
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.10	9.01
% deviation from expected linearity		-8.41%

Figure 13-2
LTE Band 41 ULCA Body Linearity Data – Ant 4a

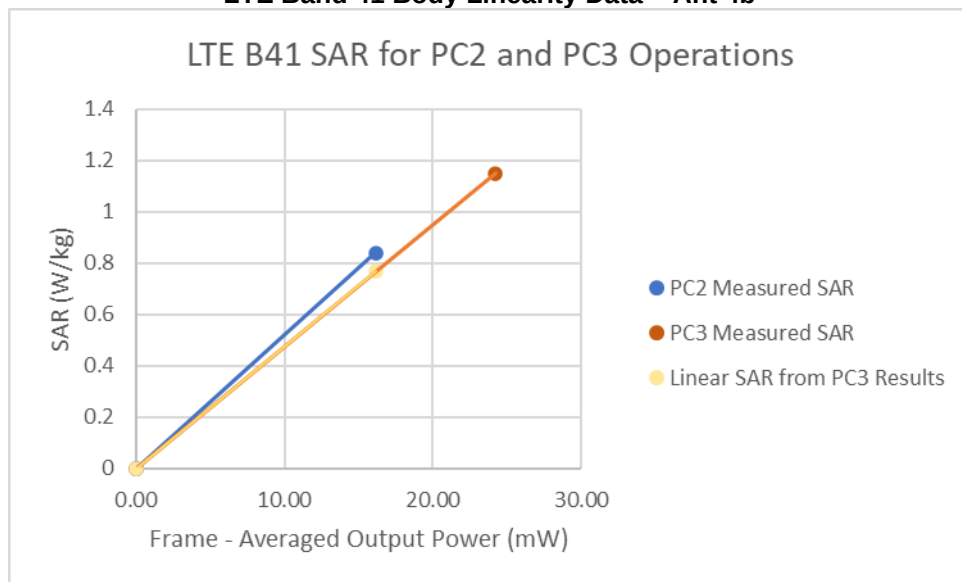


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Table 13-3
LTE Band 41 Body Linearity Data – Ant 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.9	15.9
Measured Output Power (dBm)	15.83	15.72
Measured SAR (W/kg)	1.15	0.84
Measured Power (mW)	38.28	37.33
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	24.23	16.16
% deviation from expected linearity		9.52%

Figure 13-3
LTE Band 41 Body Linearity Data – Ant 4b

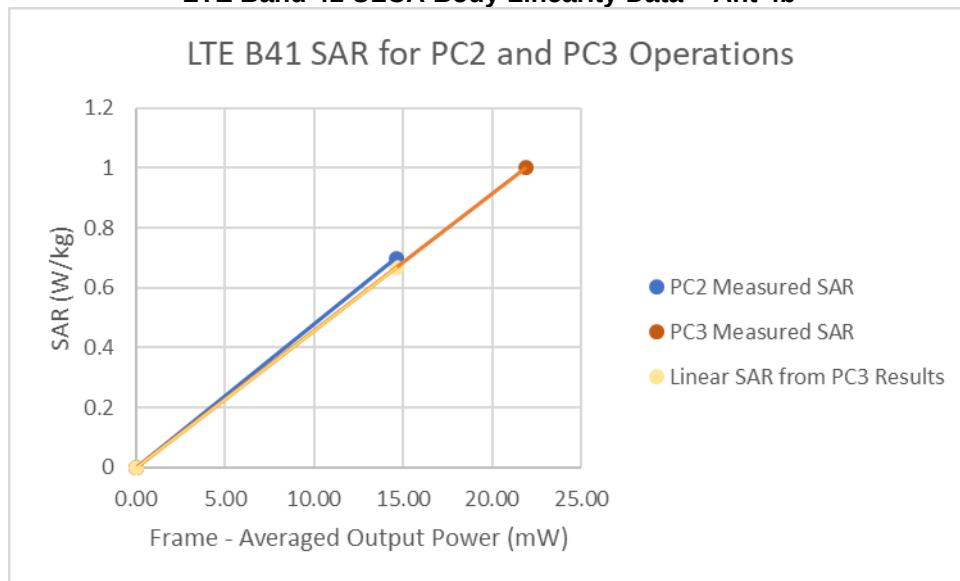


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Table 13-4
LTE Band 41 ULCA Body Linearity Data – Ant 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.9	15.9
Measured Output Power (dBm)	15.39	15.28
Measured SAR (W/kg)	1	0.699
Measured Power (mW)	34.59	33.73
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	21.90	14.60
% deviation from expected linearity		4.81%

Figure 13-4
LTE Band 41 ULCA Body Linearity Data – Ant 4b

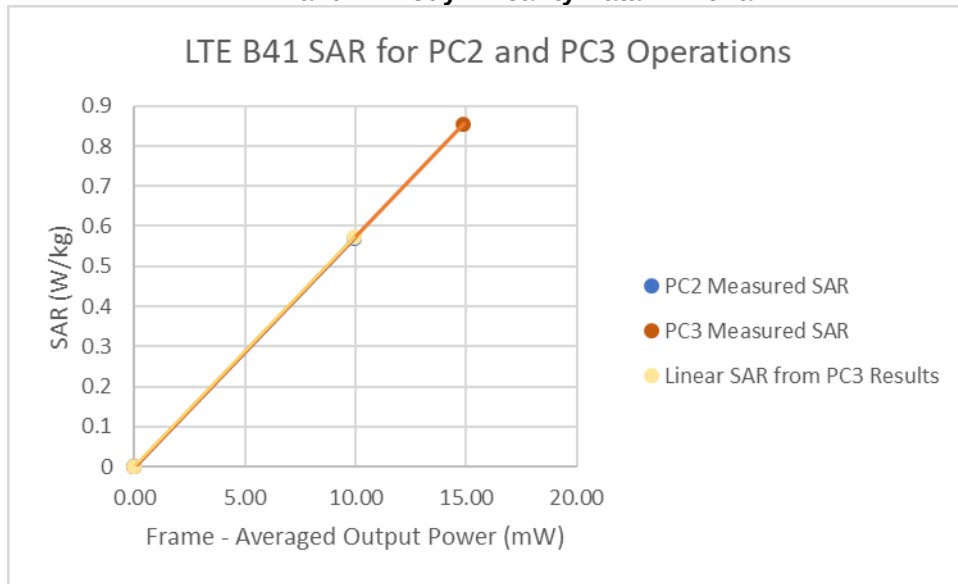


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Table 13-5
LTE Band 41 Body Linearity Data – Ant 2a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.7	14.7
Measured Output Power (dBm)	13.71	13.62
Measured SAR (W/kg)	0.855	0.57
Measured Power (mW)	23.50	23.01
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.87	9.97
% deviation from expected linearity		-0.50%

Figure 13-5
LTE Band 41 Body Linearity Data – Ant 2a

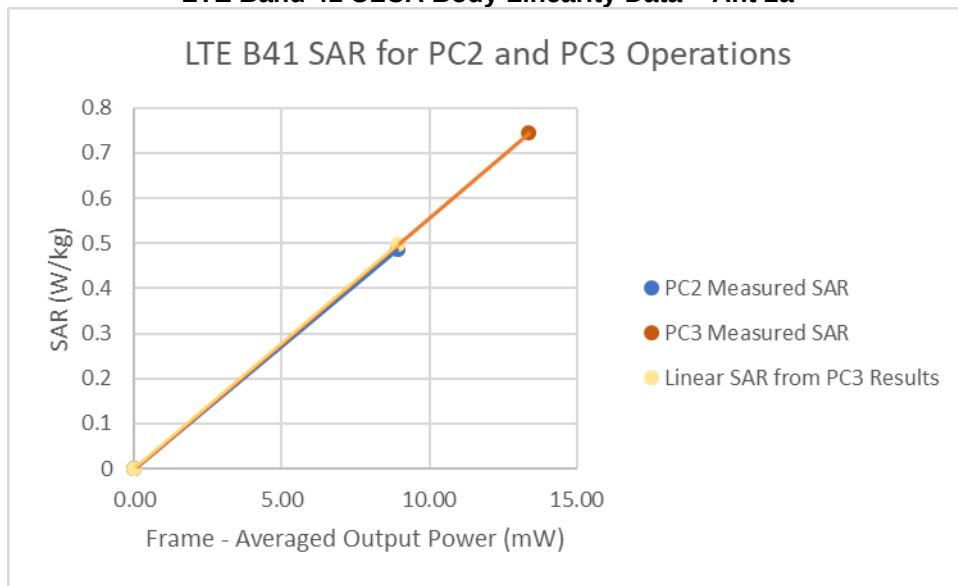


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Table 13-6
LTE Band 41 ULCA Body Linearity Data – Ant 2a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.7	14.7
Measured Output Power (dBm)	13.25	13.14
Measured SAR (W/kg)	0.745	0.486
Measured Power (mW)	21.13	20.61
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.38	8.92
% deviation from expected linearity		-2.19%

Figure 13-6
LTE Band 41 ULCA Body Linearity Data – Ant 2a

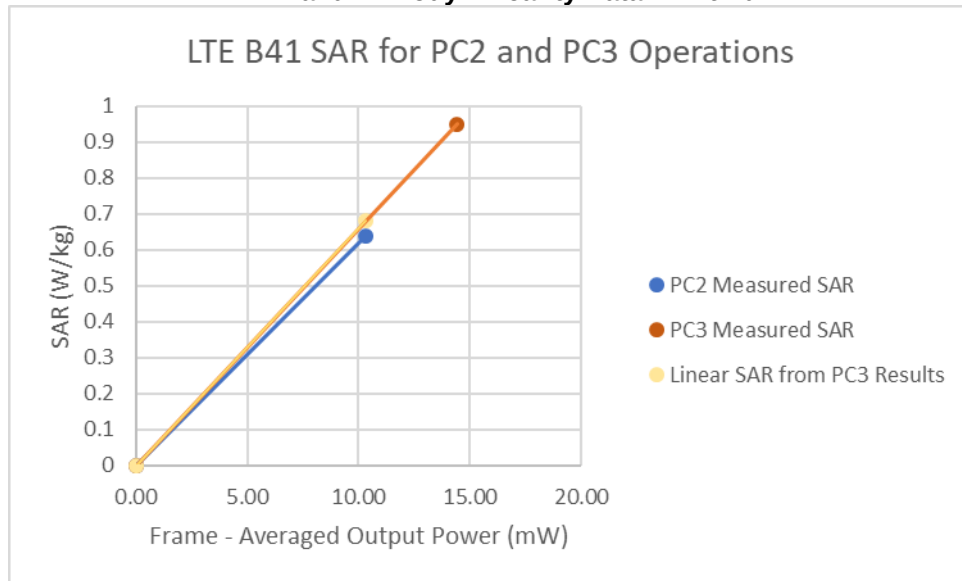


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Table 13-7
LTE Band 41 Body Linearity Data – Ant 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.58	13.78
Measured SAR (W/kg)	0.95	0.639
Measured Power (mW)	22.80	23.88
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.43	10.34
% deviation from expected linearity		-6.09%

Figure 13-7
LTE Band 41 Body Linearity Data – Ant 2b

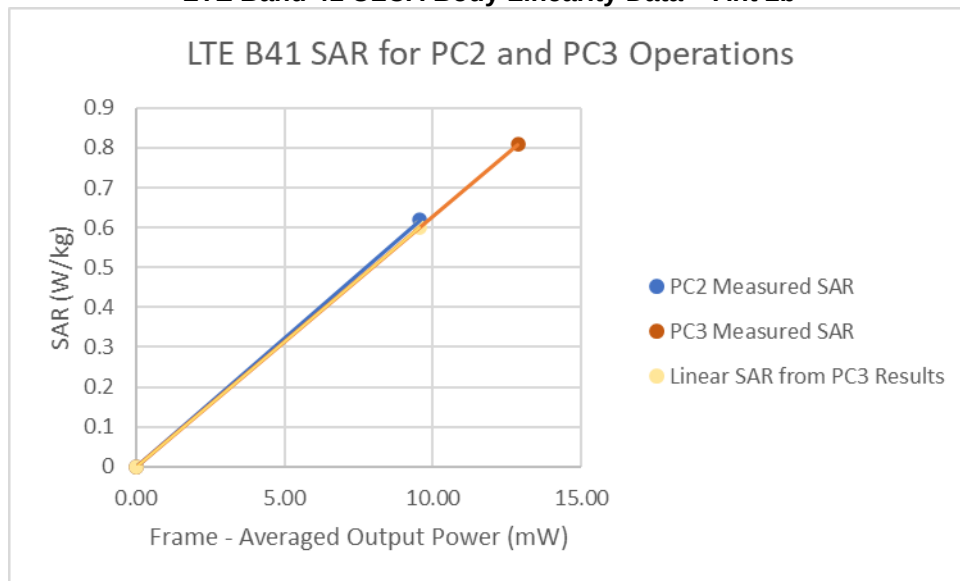


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Table 13-8
LTE Band 41 ULCA Body Linearity Data – Ant 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.08	13.44
Measured SAR (W/kg)	0.808	0.618
Measured Power (mW)	20.32	22.08
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	12.86	9.56
% deviation from expected linearity		2.92%

Figure 13-8
LTE Band 41 ULCA Body Linearity Data – Ant 2b



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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	1551G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	1551G6	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
Mini Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Mini Circuits	ZNDC-20-2G-S+	800-2000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PEZ208-6	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	5/15/2018	Biennial	5/15/2020	1092
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	D1900V2	1900 MHz SAR Dipole	9/7/2017	Triennial	9/7/2020	5d181
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	D2450V2	2450 MHz SAR Dipole	5/16/2018	Biennial	5/16/2020	945
SPEAG	D2600V2	2600 MHz SAR Dipole	6/19/2018	Biennial	6/19/2020	1009
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	EX3DV4	SAR Probe	3/18/2019	Annual	3/18/2020	7421
SPEAG	EX3DV4	SAR Probe	6/19/2019	Annual	6/19/2020	7416
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	4/12/2019	Annual	4/12/2020	7532
SPEAG	EX3DV4	SAR Probe	8/29/2019	Annual	8/29/2020	3949
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/13/2019	Annual	3/13/2020	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/14/2019	Annual	6/14/2020	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/15/2019	Annual	1/15/2020	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/10/2019	Annual	7/10/2020	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/17/2019	Annual	4/17/2020	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/12/2019	Annual	8/12/2020	1408
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

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 Uncertainty	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
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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17 REFERENCES

- [1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation, Aug. 1996.
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