



SAR EVALUATION REPORT

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

Date of Testing:
07/27/2020 – 08/18/2020
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C2004270029-01-R2.BCG

FCC ID: BCGA2324
APPLICANT: APPLE, INC.

DUT Type: Tablet Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: A2324

Equipment Class	Band & Mode	Tx Frequency	SAR 1g Body (W/kg)
PCB	GPRS/EDGE 850	834.20 - 848.80 MHz	1.14
PCB	GPRS/EDGE 1900	1850.20 - 1909.80 MHz	1.17
PCB	UMTS 850	826.40 - 848.80 MHz	1.14
PCB	UMTS 1755	1712.4 - 1752.6 MHz	1.19
PCB	UMTS 1900	1852.4 - 1907.6 MHz	1.16
PCB	LTE Band 71	695.5 - 695.5 MHz	1.19
PCB	LTE Band 12	699.7 - 715.3 MHz	1.11
PCB	LTE Band 17	706.5 - 713.5 MHz	N/A
PCB	LTE Band 13	779.5 - 784.5 MHz	1.13
PCB	LTE Band 14	790.5 - 795.5 MHz	1.08
PCB	LTE Band 26 (Cell)	814.7 - 848.3 MHz	1.19
PCB	LTE Band 5 (Cell)	824.7 - 848.3 MHz	1.19
PCB	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	1.15
PCB	LTE Band 66 (AWS)	1710.7 - 1755.3 MHz	1.13
PCB	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	1.19
PCB	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	1.19
PCB	LTE Band 30	2307.5 - 2312.5 MHz	1.09
PCB	LTE Band 7	2302.5 - 2367.5 MHz	1.18
PCB	LTE Band 41	2498.5 - 2687.5 MHz	1.18
CBE	LTE Band 48	3552.5 - 3697.5 MHz	1.15
DTIS	2.4 GHz WLAN	2412 - 2472 MHz	1.04
NI	U-NB-1	5180 - 5240 MHz	1.11
NI	U-NB-2A	5260 - 5320 MHz	1.13
NI	U-NB-2C	5500 - 5720 MHz	1.14
NI	U-NB-3	5745 - 5825 MHz	1.06
DSS/DTS	Bluetooth	2402 - 2480 MHz	1.18
Simultaneous SAR per KDB 690763 D01v0103:			1.59

Note: This revised Test Report (S/N: 1C2004270029-01-R2.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

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


Randy Ortañez
President



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FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 1 of 293

TABLE OF CONTENTS

1	DEVICE UNDER TEST	3
2	LTE INFORMATION	36
3	INTRODUCTION	37
4	DOSIMETRIC ASSESSMENT	38
5	TEST CONFIGURATION POSITIONS.....	39
6	RF EXPOSURE LIMITS	40
7	FCC MEASUREMENT PROCEDURES.....	41
8	RF CONDUCTED POWERS.....	47
9	SYSTEM VERIFICATION.....	228
10	SAR DATA SUMMARY	230
11	FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS.....	260
12	SAR MEASUREMENT VARIABILITY	280
13	ADDITIONAL TESTING PER FCC GUIDANCE	281
14	EQUIPMENT LIST.....	289
15	MEASUREMENT UNCERTAINTIES.....	290
16	CONCLUSION.....	291
17	REFERENCES	292
APPENDIX A: SAR TEST PLOTS		
APPENDIX B: SAR DIPOLE VERIFICATION PLOTS		
APPENDIX C: SAR TISSUE SPECIFICATIONS		
APPENDIX D: SAR SYSTEM VALIDATION		
APPENDIX E: DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS		
APPENDIX F: DOWNLINK LTE CA RF CONDUCTED POWERS		
APPENDIX G: POWER REDUCTION VERIFICATION		
APPENDIX H: IEEE 802.11AX RU SAR EXCLUSION		
APPENDIX I: TIME-AVERAGED SAR VERIFICATION		
APPENDIX J: PROBE AND DIPOLE CALIBRATION CERTIFICATES		

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 2 of 293

1 DEVICE UNDER TEST

1.1 Device Overview

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

1.2 Power Reduction for SAR

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

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

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 3 of 293

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.

Additionally, this device uses an independent mechanism that limits WIFI powers to a time-averaged output power. For the purposes of this test report, all SAR measurements were performed with the algorithm disabled at the maximum time-averaged output power level. Appendix I includes verification data for this time-averaged SAR mechanism

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

Mode/Band	Antenna		Data- Burst Average GMSK (in dBm)		Data - Burst Average 8-PSK (in dBm)	
			1 TX Slots	2 TX Slots	1 TX Slots	2 TX Slots
GPRS/EDGE 850	Ant 4	Max allowed power	31.20	28.20	27.50	26.50
		Nominal	30.45	27.45	26.75	25.75
	Ant 3B	Max allowed power	27.80	24.80	26.00	24.80
		Nominal	27.05	24.05	25.25	24.05

Mode/Band	Antenna		Data- Burst Average GMSK (in dBm)		Data - Burst Average 8-PSK (in dBm)	
			1 TX Slots	2 TX Slots	1 TX Slots	2 TX Slots
GPRS/EDGE 1900	Ant 4	Max allowed power	26.00	23.00	26.00	23.00
		Nominal	25.25	22.25	25.25	22.25
	Ant 2A	Max allowed power	24.20	21.20	23.00	21.20
		Nominal	23.45	20.45	22.25	20.45
	Ant 1A	Max allowed power	25.00	22.00	24.00	22.00
		Nominal	24.25	21.25	23.25	21.25
	Ant 3A	Max allowed power	23.40	20.40	23.40	20.40
		Nominal	22.65	19.65	22.65	19.65

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 4 of 293

Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
UMTS Band 5 (850 MHz)	Ant4	Max allowed power	21.10	21.10	21.10	21.10
		Nominal	20.60	20.60	20.60	20.60
	Ant 3B	Max allowed power	18.10	18.10	18.10	18.10
		Nominal	17.60	17.60	17.60	17.60

Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
UMTS Band 4 (1750 MHz)	Ant 4	Max allowed power	15.50	15.50	15.50	15.50
		Nominal	15.00	15.00	15.00	15.00
	Ant 2A	Max allowed power	14.90	14.90	14.90	14.90
		Nominal	13.90	13.90	13.90	13.90
	Ant 1A	Max allowed power	15.10	15.10	15.10	15.10
		Nominal	14.60	14.60	14.60	14.60
	Ant 3A	Max allowed power	14.00	14.00	14.00	14.00
		Nominal	13.00	13.00	13.00	13.00

Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
UMTS Band 2 (1900 MHz)	Ant 4	Max allowed power	16.30	16.30	16.30	16.30
		Nominal	15.80	15.80	15.80	15.80
	Ant 2A	Max allowed power	14.80	14.80	14.80	14.80
		Nominal	13.80	13.80	13.80	13.80
	Ant 1A	Max allowed power	14.80	14.80	14.80	14.80
		Nominal	13.80	13.80	13.80	13.80
	Ant 3A	Max allowed power	14.20	14.20	14.20	14.20
		Nominal	13.20	13.20	13.20	13.20

FCC ID: BCGA2324	 PCTEST Proud to be part of element		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 5 of 293

Mode / Band		Modulated Average Output Power (in dBm)				
		Ant 4	Ant 3B	Ant 2A	Ant 1A	Ant 3A
LTE FDD Band 71	Max allowed power	22.50	20.10			
	Nominal	22.00	19.60			
LTE FDD Band 12	Max allowed power	20.90	18.90			
	Nominal	20.40	18.40			
LTE FDD Band 17	Max allowed power	20.90	18.90			
	Nominal	20.40	18.40			
LTE FDD Band 13	Max allowed power	21.10	19.20			
	Nominal	20.60	18.70			
LTE FDD Band 14	Max allowed power	21.10	19.20			
	Nominal	20.60	18.70			
LTE FDD Band 26	Max allowed power	21.10	17.90			
	Nominal	20.60	17.40			
LTE FDD Band 5	Max allowed power	21.10	17.90			
	Nominal	20.60	17.40			
LTE FDD Band 5 Intra-band ULCA	Max allowed power	21.10	17.90			
	Nominal	20.10	16.90			
LTE FDD Band 4	Max allowed power	14.40		15.30	14.80	14.10
	Nominal	13.40		14.80	13.80	13.10
LTE FDD Band 66	Max allowed power	14.40		15.30	14.80	14.10
	Nominal	13.40		14.80	13.80	13.10
LTE FDD Band 2	Max allowed power	16.00		14.40	14.60	14.60
	Nominal	15.50		13.40	13.60	13.60
LTE FDD Band 25	Max allowed power	16.00		14.40	14.60	14.60
	Nominal	15.50		13.40	13.60	13.60
LTE FDD Band 30	Max allowed power	13.70		13.50	14.50	13.70
	Nominal	12.70		12.50	13.50	12.70
LTE FDD Band 7	Max allowed power	13.70		14.60	13.90	12.00
	Nominal	12.70		13.60	12.90	11.00
LTE FDD Band 7 Intra-band ULCA	Max allowed power	13.70		14.60	13.90	12.00
	Nominal	12.70		13.60	12.90	11.00
LTE TDD Band 41 (PC3)	Max allowed power	15.60		16.60	15.00	14.20
	Nominal	15.10		16.10	14.50	13.20
LTE TDD Band 41 (PC3) Intra-band ULCA	Max allowed power	15.60		16.60	15.00	14.20
	Nominal	14.60		15.60	14.00	13.20
LTE TDD Band 41 (PC2)	Max allowed power	15.60		16.60	15.00	14.20
	Nominal	15.10		16.10	14.50	13.20
LTE TDD Band 41 (PC2) Intra-band ULCA	Max allowed power	15.60		16.60	15.00	14.20
	Nominal	14.60		15.60	14.00	13.20
LTE TDD Band 48	Max allowed power	16.50	16.20			
	Nominal	16.00	15.70			

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 6 of 293

1.3.2 4G Output Power – Inter-band ULCA Active

Mode / Band		Modulated Average Output Power (in dBm)				
		Ant 4	Ant 3B	Ant 2A	Ant 1A	Ant 3A
LTE FDD Band 12	Max allowed power	17.90	15.90			
	Nominal	17.40	15.40			
LTE FDD Band 13	Max allowed power	18.10	16.20			
	Nominal	17.60	15.70			
LTE FDD Band 14	Max allowed power	18.10	16.20			
	Nominal	17.60	15.70			
LTE FDD Band 5	Max allowed power	18.10	14.90			
	Nominal	17.60	13.90			
LTE FDD Band 4	Max allowed power	11.40		12.30	11.80	11.10
	Nominal	10.40		11.30	10.80	10.10
LTE FDD Band 66	Max allowed power	11.40		12.30	11.80	11.10
	Nominal	10.40		11.30	10.80	10.10
LTE FDD Band 2	Max allowed power	13.00		11.40	11.60	11.60
	Nominal	12.00		10.40	10.60	10.60
LTE FDD Band 30	Max allowed power	10.70		10.50	11.50	10.70
	Nominal	9.70		9.50	10.50	9.70
LTE FDD Band 7	Max allowed power	10.70		11.60	10.90	9.00
	Nominal	9.70		10.60	9.90	8.00

1.3.3 Maximum Time-Averaged Output Power

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

Mode/ Band		IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
Modulated Average - Single Tx Chain (dBm) - Antenna 3A	20 MHz Bandwidth	1	13.00	11.50	13.00	11.50	13.00	11.50	13.00
		2	13.00	11.50	13.00	11.50	13.00	11.50	13.00
		3	13.00	11.50	13.00	11.50	13.00	11.50	13.00
		4	13.00	11.50	13.00	11.50	13.00	11.50	13.00
		5	13.00	11.50	13.00	11.50	13.00	11.50	13.00
		6	13.00	11.50	13.00	11.50	13.00	11.50	13.00
		7	13.00	11.50	13.00	11.50	13.00	11.50	13.00
		8	13.00	11.50	13.00	11.50	13.00	11.50	13.00
		9	13.00	11.50	13.00	11.50	13.00	11.50	13.00
		10	13.00	11.50	13.00	11.50	13.00	11.50	13.00
		11	13.00	11.50	13.00	11.50	13.00	11.50	13.00
		12	13.00	11.50	11.50	10.00	11.50	10.00	11.00
		13	13.00	11.50	10.50	9.00	10.50	9.00	N/A

Mode/ Band		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum
Modulated Average - 2 Tx Chain (dBm) - Antenna 3A	20 MHz Bandwidth	1	13.00	11.50	13.00	11.50	12.50
		2	13.00	11.50	13.00	11.50	13.00
		3	13.00	11.50	13.00	11.50	13.00
		4	13.00	11.50	13.00	11.50	13.00
		5	13.00	11.50	13.00	11.50	13.00
		6	13.00	11.50	13.00	11.50	13.00
		7	13.00	11.50	13.00	11.50	13.00
		8	13.00	11.50	13.00	11.50	13.00
		9	13.00	11.50	13.00	11.50	13.00
		10	13.00	11.50	13.00	11.50	13.00
		11	13.00	11.50	13.00	11.50	12.50
		12	11.00	9.50	11.00	9.50	10.50
		13	10.00	8.50	10.00	8.50	N/A

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 7 of 293

Mode/ Band			IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 1A	20 MHz Bandwidth	1	13.75	12.25	13.75	12.25	13.75	12.25	13.00	11.50
		2	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		3	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		4	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		5	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		6	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		7	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		8	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		9	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		10	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		11	13.75	12.25	13.75	12.25	13.75	12.25	13.50	12.00
		12	13.75	12.25	11.50	10.00	11.50	10.00	11.00	9.50
		13	13.75	12.25	10.50	9.00	10.50	9.00	N/A	N/A

Mode/ Band			IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 1A	20 MHz Bandwidth	1	13.50	12.00	13.50	12.00	12.50	11.00
		2	13.75	12.25	13.75	12.25	13.75	12.25
		3	13.75	12.25	13.75	12.25	13.75	12.25
		4	13.75	12.25	13.75	12.25	13.75	12.25
		5	13.75	12.25	13.75	12.25	13.75	12.25
		6	13.75	12.25	13.75	12.25	13.75	12.25
		7	13.75	12.25	13.75	12.25	13.75	12.25
		8	13.75	12.25	13.75	12.25	13.75	12.25
		9	13.75	12.25	13.75	12.25	13.75	12.25
		10	13.75	12.25	13.75	12.25	13.75	12.25
		11	13.50	12.00	13.50	12.00	12.50	11.00
		12	11.00	9.50	11.00	9.50	10.50	9.00
		13	10.00	8.50	10.00	8.50	N/A	N/A

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 PCTEST Proud to be part of element		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 8 of 293

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Ant 2A	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		52	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		104	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		108	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		112	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		116	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		120	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		124	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		128	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		132	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		136	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		140	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		144	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		149	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		153	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		157	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		161	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		165	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	40 MHz Bandwidth	38			10.50	9.00	10.50	9.00	10.50	9.00
		46			10.50	9.00	10.50	9.00	10.50	9.00
		54			9.75	8.25	9.75	8.25	9.75	8.25
		62			9.75	8.25	9.75	8.25	9.75	8.25
		102			10.75	9.25	10.75	9.25	10.75	9.25
		110			10.75	9.25	10.75	9.25	10.75	9.25
		118			10.75	9.25	10.75	9.25	10.75	9.25
		126			10.75	9.25	10.75	9.25	10.75	9.25
		134			10.75	9.25	10.75	9.25	10.75	9.25
		142			10.75	9.25	10.75	9.25	10.75	9.25
		151			11.25	9.75	11.25	9.75	11.25	9.75
		159			11.25	9.75	11.25	9.75	11.25	9.75
	80 MHz Bandwidth	42					10.50	9.00	10.50	9.00
		58					9.75	8.25	9.75	8.25
		106					10.75	9.25	10.75	9.25
		122					10.75	9.25	10.75	9.25
		138					10.75	9.25	10.75	9.25
		155					11.25	9.75	11.25	9.75

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 9 of 293

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - Ant 2A	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		52	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		104	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		108	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		112	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		116	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		120	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		124	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		128	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		132	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		136	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		140	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		144	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		149	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		153	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		157	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		161	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		165	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	40 MHz Bandwidth	38			10.50	9.00	10.50	9.00	10.50	9.00
		46			10.50	9.00	10.50	9.00	10.50	9.00
		54			9.75	8.25	9.75	8.25	9.75	8.25
		62			9.75	8.25	9.75	8.25	9.75	8.25
		102			10.75	9.25	10.75	9.25	10.75	9.25
		110			10.75	9.25	10.75	9.25	10.75	9.25
		118			10.75	9.25	10.75	9.25	10.75	9.25
		126			10.75	9.25	10.75	9.25	10.75	9.25
		134			10.75	9.25	10.75	9.25	10.75	9.25
		142			10.75	9.25	10.75	9.25	10.75	9.25
		151			11.25	9.75	11.25	9.75	11.25	9.75
		159			11.25	9.75	11.25	9.75	11.25	9.75
	80 MHz Bandwidth	42					10.50	9.00	10.50	9.00
		58					9.75	8.25	9.75	8.25
		106					10.75	9.25	10.75	9.25
		122					10.75	9.25	10.75	9.25
		138					10.75	9.25	10.75	9.25
		155					11.25	9.75	11.25	9.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 10 of 293

Mode/ Band			IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - Ant 2A	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00
		52	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.75	9.25	10.75	9.25	10.75	9.25
		104	10.75	9.25	10.75	9.25	10.75	9.25
		108	10.75	9.25	10.75	9.25	10.75	9.25
		112	10.75	9.25	10.75	9.25	10.75	9.25
		116	10.75	9.25	10.75	9.25	10.75	9.25
		120	10.75	9.25	10.75	9.25	10.75	9.25
		124	10.75	9.25	10.75	9.25	10.75	9.25
		128	10.75	9.25	10.75	9.25	10.75	9.25
		132	10.75	9.25	10.75	9.25	10.75	9.25
		136	10.75	9.25	10.75	9.25	10.75	9.25
		140	10.75	9.25	10.75	9.25	10.75	9.25
		144	10.75	9.25	10.75	9.25	10.75	9.25
	40 MHz Bandwidth	149	11.25	9.75	11.25	9.75	11.25	9.75
		153	11.25	9.75	11.25	9.75	11.25	9.75
		157	11.25	9.75	11.25	9.75	11.25	9.75
		161	11.25	9.75	11.25	9.75	11.25	9.75
		165	11.25	9.75	11.25	9.75	11.25	9.75
		38	10.50	9.00	10.50	9.00	10.50	9.00
		46	10.50	9.00	10.50	9.00	10.50	9.00
		54	9.75	8.25	9.75	8.25	9.75	8.25
		62	9.75	8.25	9.75	8.25	9.75	8.25
		102	10.75	9.25	10.75	9.25	10.75	9.25
	80 MHz Bandwidth	110	10.75	9.25	10.75	9.25	10.75	9.25
		118	10.75	9.25	10.75	9.25	10.75	9.25
		126	10.75	9.25	10.75	9.25	10.75	9.25
		134	10.75	9.25	10.75	9.25	10.75	9.25
		142	10.75	9.25	10.75	9.25	10.75	9.25
		151	11.25	9.75	11.25	9.75	11.25	9.75
		159	11.25	9.75	11.25	9.75	11.25	9.75
		42			10.50	9.00	10.50	9.00
		58			9.75	8.25	9.75	8.25
		106			10.75	9.25	10.75	9.25
		122			10.75	9.25	10.75	9.25
		138			10.75	9.25	10.75	9.25
		155			11.25	9.75	11.25	9.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 11 of 293

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Ant 2B	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		52	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		56	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		60	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		64	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		100	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		149	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		153	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		157	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		161	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		165	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	40 MHz Bandwidth	38			10.50	9.00	10.50	9.00	10.50	9.00
		46			10.50	9.00	10.50	9.00	10.50	9.00
		54			11.50	10.00	11.50	10.00	11.50	10.00
		62			11.50	10.00	11.50	10.00	11.50	10.00
		102			10.25	8.75	10.25	8.75	10.25	8.75
		110			10.25	8.75	10.25	8.75	10.25	8.75
		118			10.25	8.75	10.25	8.75	10.25	8.75
		126			10.25	8.75	10.25	8.75	10.25	8.75
		134			10.25	8.75	10.25	8.75	10.25	8.75
		142			10.25	8.75	10.25	8.75	10.25	8.75
		151			9.75	8.25	9.75	8.25	9.75	8.25
		159			9.75	8.25	9.75	8.25	9.75	8.25
	80 MHz Bandwidth	42					10.50	9.00	10.50	9.00
		58					11.50	10.00	11.50	10.00
		106					10.25	8.75	10.25	8.75
		122					10.25	8.75	10.25	8.75
		138					10.25	8.75	10.25	8.75
		155					9.75	8.25	9.75	8.25

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 12 of 293

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - Ant 2B	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		52	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		56	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		60	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		64	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		100	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		149	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		153	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		157	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		161	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		165	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	40 MHz Bandwidth	38			10.50	9.00	10.50	9.00	10.50	9.00
		46			10.50	9.00	10.50	9.00	10.50	9.00
		54			11.50	10.00	11.50	10.00	11.50	10.00
		62			11.50	10.00	11.50	10.00	11.50	10.00
		102			10.25	8.75	10.25	8.75	10.25	8.75
		110			10.25	8.75	10.25	8.75	10.25	8.75
		118			10.25	8.75	10.25	8.75	10.25	8.75
		126			10.25	8.75	10.25	8.75	10.25	8.75
		134			10.25	8.75	10.25	8.75	10.25	8.75
		142			10.25	8.75	10.25	8.75	10.25	8.75
		151			9.75	8.25	9.75	8.25	9.75	8.25
		159			9.75	8.25	9.75	8.25	9.75	8.25
	80 MHz Bandwidth	42					10.50	9.00	10.50	9.00
		58					11.50	10.00	11.50	10.00
		106					10.25	8.75	10.25	8.75
		122					10.25	8.75	10.25	8.75
		138					10.25	8.75	10.25	8.75
		155					9.75	8.25	9.75	8.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 13 of 293

Mode/ Band			IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - Ant 2B	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00
		52	11.50	10.00	11.50	10.00	11.50	10.00
		56	11.50	10.00	11.50	10.00	11.50	10.00
		60	11.50	10.00	11.50	10.00	11.50	10.00
		64	11.50	10.00	11.50	10.00	11.50	10.00
		100	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75
		149	9.75	8.25	9.75	8.25	9.75	8.25
	153	9.75	8.25	9.75	8.25	9.75	8.25	
	157	9.75	8.25	9.75	8.25	9.75	8.25	
	161	9.75	8.25	9.75	8.25	9.75	8.25	
	165	9.75	8.25	9.75	8.25	9.75	8.25	
	40 MHz Bandwidth	38	10.50	9.00	10.50	9.00	10.50	9.00
		46	10.50	9.00	10.50	9.00	10.50	9.00
		54	11.50	10.00	11.50	10.00	11.50	10.00
		62	11.50	10.00	11.50	10.00	11.50	10.00
		102	10.25	8.75	10.25	8.75	10.25	8.75
		110	10.25	8.75	10.25	8.75	10.25	8.75
		118	10.25	8.75	10.25	8.75	10.25	8.75
		126	10.25	8.75	10.25	8.75	10.25	8.75
		134	10.25	8.75	10.25	8.75	10.25	8.75
		142	10.25	8.75	10.25	8.75	10.25	8.75
	80 MHz Bandwidth	151	9.75	8.25	9.75	8.25	9.75	8.25
		159	9.75	8.25	9.75	8.25	9.75	8.25
		42			10.50	9.00	10.50	9.00
		58			11.50	10.00	11.50	10.00
		106			10.25	8.75	10.25	8.75
		122			10.25	8.75	10.25	8.75
		138			10.25	8.75	10.25	8.75
	155			9.75	8.25	9.75	8.25	

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 14 of 293

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) -Ant 1B	20 MHz Bandwidth	36	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		40	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		44	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		48	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		52	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		149	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		153	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		157	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		161	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		165	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	40 MHz Bandwidth	38			11.50	10.00	11.50	10.00	11.50	10.00
		46			11.50	10.00	11.50	10.00	11.50	10.00
		54			9.75	8.25	9.75	8.25	9.75	8.25
		62			9.75	8.25	9.75	8.25	9.75	8.25
		102			10.25	8.75	10.25	8.75	10.25	8.75
		110			10.25	8.75	10.25	8.75	10.25	8.75
		118			10.25	8.75	10.25	8.75	10.25	8.75
		126			10.25	8.75	10.25	8.75	10.25	8.75
		134			10.25	8.75	10.25	8.75	10.25	8.75
		142			10.25	8.75	10.25	8.75	10.25	8.75
		151			10.25	8.75	10.25	8.75	10.25	8.75
		159			10.25	8.75	10.25	8.75	10.25	8.75
	80 MHz Bandwidth	42					11.50	10.00	11.50	10.00
		58					9.75	8.25	9.75	8.25
		106					10.25	8.75	10.25	8.75
		122					10.25	8.75	10.25	8.75
		138					10.25	8.75	10.25	8.75
		155					10.25	8.75	10.25	8.75

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 15 of 293

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - Ant 1B	20 MHz Bandwidth	36	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		40	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		44	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		48	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		52	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		149	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		153	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		157	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		161	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		165	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	40 MHz Bandwidth	38			11.50	10.00	11.50	10.00	11.50	10.00
		46			11.50	10.00	11.50	10.00	11.50	10.00
		54			9.75	8.25	9.75	8.25	9.75	8.25
		62			9.75	8.25	9.75	8.25	9.75	8.25
		102			10.25	8.75	10.25	8.75	10.25	8.75
		110			10.25	8.75	10.25	8.75	10.25	8.75
		118			10.25	8.75	10.25	8.75	10.25	8.75
		126			10.25	8.75	10.25	8.75	10.25	8.75
		134			10.25	8.75	10.25	8.75	10.25	8.75
		142			10.25	8.75	10.25	8.75	10.25	8.75
		151			10.25	8.75	10.25	8.75	10.25	8.75
		159			10.25	8.75	10.25	8.75	10.25	8.75
	80 MHz Bandwidth	42					11.50	10.00	11.50	10.00
		58					9.75	8.25	9.75	8.25
		106					10.25	8.75	10.25	8.75
		122					10.25	8.75	10.25	8.75
		138					10.25	8.75	10.25	8.75
		155					10.25	8.75	10.25	8.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 16 of 293

Mode/ Band			IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - Ant 1B	20 MHz Bandwidth	36	11.50	10.00	11.50	10.00	11.50	10.00
		40	11.50	10.00	11.50	10.00	11.50	10.00
		44	11.50	10.00	11.50	10.00	11.50	10.00
		48	11.50	10.00	11.50	10.00	11.50	10.00
		52	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75
		149	10.25	8.75	10.25	8.75	10.25	8.75
	153	10.25	8.75	10.25	8.75	10.25	8.75	
	157	10.25	8.75	10.25	8.75	10.25	8.75	
	161	10.25	8.75	10.25	8.75	10.25	8.75	
	165	10.25	8.75	10.25	8.75	10.25	8.75	
	40 MHz Bandwidth	38	11.50	10.00	11.50	10.00	11.50	10.00
		46	11.50	10.00	11.50	10.00	11.50	10.00
		54	9.75	8.25	9.75	8.25	9.75	8.25
		62	9.75	8.25	9.75	8.25	9.75	8.25
		102	10.25	8.75	10.25	8.75	10.25	8.75
		110	10.25	8.75	10.25	8.75	10.25	8.75
		118	10.25	8.75	10.25	8.75	10.25	8.75
		126	10.25	8.75	10.25	8.75	10.25	8.75
		134	10.25	8.75	10.25	8.75	10.25	8.75
		142	10.25	8.75	10.25	8.75	10.25	8.75
	151	10.25	8.75	10.25	8.75	10.25	8.75	
	159	10.25	8.75	10.25	8.75	10.25	8.75	
	80 MHz Bandwidth	42			11.50	10.00	11.50	10.00
		58			9.75	8.25	9.75	8.25
		106			10.25	8.75	10.25	8.75
		122			10.25	8.75	10.25	8.75
		138			10.25	8.75	10.25	8.75
		155			10.25	8.75	10.25	8.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 17 of 293

1.3.4 Reduced Time-Averaged Output Power

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

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3A/3B active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band			IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 3A	20 MHz Bandwidth	1	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		2	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		3	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		4	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		5	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		6	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		7	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		8	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		9	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		10	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		11	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		12	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		13	6.00	4.50	6.00	4.50	6.00	4.50	N/A	N/A

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3A/3B active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band		Channel	IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 3A	20 MHz Bandwidth	1	6.00	4.50	6.00	4.50	6.00	4.50
		2	6.00	4.50	6.00	4.50	6.00	4.50
		3	6.00	4.50	6.00	4.50	6.00	4.50
		4	6.00	4.50	6.00	4.50	6.00	4.50
		5	6.00	4.50	6.00	4.50	6.00	4.50
		6	6.00	4.50	6.00	4.50	6.00	4.50
		7	6.00	4.50	6.00	4.50	6.00	4.50
		8	6.00	4.50	6.00	4.50	6.00	4.50
		9	6.00	4.50	6.00	4.50	6.00	4.50
		10	6.00	4.50	6.00	4.50	6.00	4.50
		11	6.00	4.50	6.00	4.50	6.00	4.50
		12	6.00	4.50	6.00	4.50	6.00	4.50
		13	6.00	4.50	6.00	4.50	N/A	N/A

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1A active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band		Channel	IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 1A	20 MHz Bandwidth	1	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		2	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		3	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		4	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		5	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		6	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		7	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		8	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		9	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		10	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		11	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		12	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		13	6.75	5.25	6.75	5.25	6.75	5.25	N/A	N/A

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 18 of 293

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1A active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band			IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 1A	20 MHz Bandwidth	1	6.75	5.25	6.75	5.25	6.75	5.25
		2	6.75	5.25	6.75	5.25	6.75	5.25
		3	6.75	5.25	6.75	5.25	6.75	5.25
		4	6.75	5.25	6.75	5.25	6.75	5.25
		5	6.75	5.25	6.75	5.25	6.75	5.25
		6	6.75	5.25	6.75	5.25	6.75	5.25
		7	6.75	5.25	6.75	5.25	6.75	5.25
		8	6.75	5.25	6.75	5.25	6.75	5.25
		9	6.75	5.25	6.75	5.25	6.75	5.25
		10	6.75	5.25	6.75	5.25	6.75	5.25
		11	6.75	5.25	6.75	5.25	6.75	5.25
		12	6.75	5.25	6.75	5.25	6.75	5.25
		13	6.75	5.25	6.75	5.25	N/A	N/A

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2A active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Ant 2A	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		40	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		44	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		48	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		52	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		56	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		60	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		64	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		100	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		104	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		108	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		112	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		116	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		120	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		124	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		128	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		132	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		136	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		140	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		144	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		149	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		153	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		157	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		161	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		165	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
	40 MHz Bandwidth	38			3.50	2.00	3.50	2.00	3.50	2.00
		46			3.50	2.00	3.50	2.00	3.50	2.00
		54			2.75	1.25	2.75	1.25	2.75	1.25
		62			2.75	1.25	2.75	1.25	2.75	1.25
		102			3.75	2.25	3.75	2.25	3.75	2.25
		110			3.75	2.25	3.75	2.25	3.75	2.25
		118			3.75	2.25	3.75	2.25	3.75	2.25
		126			3.75	2.25	3.75	2.25	3.75	2.25
		134			3.75	2.25	3.75	2.25	3.75	2.25
		142			3.75	2.25	3.75	2.25	3.75	2.25
		151			4.25	2.75	4.25	2.75	4.25	2.75
		159			4.25	2.75	4.25	2.75	4.25	2.75
	80 MHz Bandwidth	42					3.50	2.00	3.50	2.00
		58					2.75	1.25	2.75	1.25
		106					3.75	2.25	3.75	2.25
		122					3.75	2.25	3.75	2.25
		138					3.75	2.25	3.75	2.25
		155					4.25	2.75	4.25	2.75

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 19 of 293

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2A active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - Ant 2A	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		40	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		44	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		48	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		52	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		56	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		60	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		64	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		100	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		104	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		108	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		112	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		116	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		120	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		124	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		128	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		132	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		136	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		140	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		144	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		149	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		153	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		157	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		161	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		165	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
	40 MHz Bandwidth	38			3.50	2.00	3.50	2.00	3.50	2.00
		46			3.50	2.00	3.50	2.00	3.50	2.00
		54			2.75	1.25	2.75	1.25	2.75	1.25
		62			2.75	1.25	2.75	1.25	2.75	1.25
		102			3.75	2.25	3.75	2.25	3.75	2.25
		110			3.75	2.25	3.75	2.25	3.75	2.25
		118			3.75	2.25	3.75	2.25	3.75	2.25
		126			3.75	2.25	3.75	2.25	3.75	2.25
		134			3.75	2.25	3.75	2.25	3.75	2.25
		142			3.75	2.25	3.75	2.25	3.75	2.25
		151			4.25	2.75	4.25	2.75	4.25	2.75
		159			4.25	2.75	4.25	2.75	4.25	2.75
	80 MHz Bandwidth	42					3.50	2.00	3.50	2.00
		58					2.75	1.25	2.75	1.25
		106					3.75	2.25	3.75	2.25
		122					3.75	2.25	3.75	2.25
		138					3.75	2.25	3.75	2.25
		155					4.25	2.75	4.25	2.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 20 of 293

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2A active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band			IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	
Modulated Average - 2 Tx Chain (dBm) SDM - Ant 2A	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00	
		40	3.50	2.00	3.50	2.00	3.50	2.00	
		44	3.50	2.00	3.50	2.00	3.50	2.00	
		48	3.50	2.00	3.50	2.00	3.50	2.00	
		52	2.75	1.25	2.75	1.25	2.75	1.25	
		56	2.75	1.25	2.75	1.25	2.75	1.25	
		60	2.75	1.25	2.75	1.25	2.75	1.25	
		64	2.75	1.25	2.75	1.25	2.75	1.25	
		100	3.75	2.25	3.75	2.25	3.75	2.25	
		104	3.75	2.25	3.75	2.25	3.75	2.25	
		108	3.75	2.25	3.75	2.25	3.75	2.25	
		112	3.75	2.25	3.75	2.25	3.75	2.25	
		116	3.75	2.25	3.75	2.25	3.75	2.25	
		120	3.75	2.25	3.75	2.25	3.75	2.25	
		124	3.75	2.25	3.75	2.25	3.75	2.25	
		128	3.75	2.25	3.75	2.25	3.75	2.25	
		132	3.75	2.25	3.75	2.25	3.75	2.25	
		136	3.75	2.25	3.75	2.25	3.75	2.25	
		140	3.75	2.25	3.75	2.25	3.75	2.25	
		144	3.75	2.25	3.75	2.25	3.75	2.25	
		149	4.25	2.75	4.25	2.75	4.25	2.75	
		153	4.25	2.75	4.25	2.75	4.25	2.75	
		157	4.25	2.75	4.25	2.75	4.25	2.75	
		161	4.25	2.75	4.25	2.75	4.25	2.75	
		165	4.25	2.75	4.25	2.75	4.25	2.75	
	40 MHz Bandwidth	38	3.50	2.00	3.50	2.00	3.50	2.00	
		46	3.50	2.00	3.50	2.00	3.50	2.00	
		54	2.75	1.25	2.75	1.25	2.75	1.25	
		62	2.75	1.25	2.75	1.25	2.75	1.25	
		102	3.75	2.25	3.75	2.25	3.75	2.25	
		110	3.75	2.25	3.75	2.25	3.75	2.25	
		118	3.75	2.25	3.75	2.25	3.75	2.25	
		126	3.75	2.25	3.75	2.25	3.75	2.25	
		134	3.75	2.25	3.75	2.25	3.75	2.25	
		142	3.75	2.25	3.75	2.25	3.75	2.25	
		151	4.25	2.75	4.25	2.75	4.25	2.75	
		159	4.25	2.75	4.25	2.75	4.25	2.75	
	80 MHz Bandwidth	42				3.50	2.00	3.50	2.00
		58				2.75	1.25	2.75	1.25
		106				3.75	2.25	3.75	2.25
		122				3.75	2.25	3.75	2.25
		138				3.75	2.25	3.75	2.25
		155				4.25	2.75	4.25	2.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 21 of 293

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2A active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Ant 2B	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		40	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		44	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		48	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		52	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		56	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		60	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		64	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		100	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		149	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		153	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		157	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		161	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		165	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	40 MHz Bandwidth	38			3.50	2.00	3.50	2.00	3.50	2.00
		46			3.50	2.00	3.50	2.00	3.50	2.00
		54			4.50	3.00	4.50	3.00	4.50	3.00
		62			4.50	3.00	4.50	3.00	4.50	3.00
		102			3.25	1.75	3.25	1.75	3.25	1.75
		110			3.25	1.75	3.25	1.75	3.25	1.75
		118			3.25	1.75	3.25	1.75	3.25	1.75
		126			3.25	1.75	3.25	1.75	3.25	1.75
		134			3.25	1.75	3.25	1.75	3.25	1.75
		142			3.25	1.75	3.25	1.75	3.25	1.75
		151			2.75	1.25	2.75	1.25	2.75	1.25
		159			2.75	1.25	2.75	1.25	2.75	1.25
	80 MHz Bandwidth	42					3.50	2.00	3.50	2.00
		58					4.50	3.00	4.50	3.00
		106					3.25	1.75	3.25	1.75
		122					3.25	1.75	3.25	1.75
		138					3.25	1.75	3.25	1.75
		155					2.75	1.25	2.75	1.25

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 22 of 293

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2A active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - Ant 2B	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		40	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		44	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		48	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		52	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		56	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		60	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		64	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		100	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		149	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		153	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		157	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		161	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		165	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	40 MHz Bandwidth	38			3.50	2.00	3.50	2.00	3.50	2.00
		46			3.50	2.00	3.50	2.00	3.50	2.00
		54			4.50	3.00	4.50	3.00	4.50	3.00
		62			4.50	3.00	4.50	3.00	4.50	3.00
		102			3.25	1.75	3.25	1.75	3.25	1.75
		110			3.25	1.75	3.25	1.75	3.25	1.75
		118			3.25	1.75	3.25	1.75	3.25	1.75
		126			3.25	1.75	3.25	1.75	3.25	1.75
		134			3.25	1.75	3.25	1.75	3.25	1.75
		142			3.25	1.75	3.25	1.75	3.25	1.75
		151			2.75	1.25	2.75	1.25	2.75	1.25
		159			2.75	1.25	2.75	1.25	2.75	1.25
	80 MHz Bandwidth	42					3.50	2.00	3.50	2.00
		58					4.50	3.00	4.50	3.00
		106					3.25	1.75	3.25	1.75
		122					3.25	1.75	3.25	1.75
		138					3.25	1.75	3.25	1.75
	155					2.75	1.25	2.75	1.25	

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 23 of 293

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2A active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band		Channel	IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - Ant 2B	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00
		40	3.50	2.00	3.50	2.00	3.50	2.00
		44	3.50	2.00	3.50	2.00	3.50	2.00
		48	3.50	2.00	3.50	2.00	3.50	2.00
		52	4.50	3.00	4.50	3.00	4.50	3.00
		56	4.50	3.00	4.50	3.00	4.50	3.00
		60	4.50	3.00	4.50	3.00	4.50	3.00
		64	4.50	3.00	4.50	3.00	4.50	3.00
		100	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75
		149	2.75	1.25	2.75	1.25	2.75	1.25
		153	2.75	1.25	2.75	1.25	2.75	1.25
		157	2.75	1.25	2.75	1.25	2.75	1.25
		161	2.75	1.25	2.75	1.25	2.75	1.25
		165	2.75	1.25	2.75	1.25	2.75	1.25
	40 MHz Bandwidth	38	3.50	2.00	3.50	2.00	3.50	2.00
		46	3.50	2.00	3.50	2.00	3.50	2.00
		54	4.50	3.00	4.50	3.00	4.50	3.00
		62	4.50	3.00	4.50	3.00	4.50	3.00
		102	3.25	1.75	3.25	1.75	3.25	1.75
		110	3.25	1.75	3.25	1.75	3.25	1.75
		118	3.25	1.75	3.25	1.75	3.25	1.75
		126	3.25	1.75	3.25	1.75	3.25	1.75
		134	3.25	1.75	3.25	1.75	3.25	1.75
		142	3.25	1.75	3.25	1.75	3.25	1.75
		151	2.75	1.25	2.75	1.25	2.75	1.25
		159	2.75	1.25	2.75	1.25	2.75	1.25
	80 MHz Bandwidth	42			3.50	2.00	3.50	2.00
		58			4.50	3.00	4.50	3.00
		106			3.25	1.75	3.25	1.75
		122			3.25	1.75	3.25	1.75
		138			3.25	1.75	3.25	1.75
		155			2.75	1.25	2.75	1.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 24 of 293

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1A active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Ant 18	20 MHz Bandwidth	36	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		40	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		44	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		48	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		52	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		56	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		60	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		64	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		100	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		149	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		153	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		157	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		161	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		165	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
	40 MHz Bandwidth	38			4.50	3.00	4.50	3.00	4.50	3.00
		46			4.50	3.00	4.50	3.00	4.50	3.00
		54			2.75	1.25	2.75	1.25	2.75	1.25
		62			2.75	1.25	2.75	1.25	2.75	1.25
		102			3.25	1.75	3.25	1.75	3.25	1.75
		110			3.25	1.75	3.25	1.75	3.25	1.75
		118			3.25	1.75	3.25	1.75	3.25	1.75
		126			3.25	1.75	3.25	1.75	3.25	1.75
		134			3.25	1.75	3.25	1.75	3.25	1.75
		142			3.25	1.75	3.25	1.75	3.25	1.75
		151			3.25	1.75	3.25	1.75	3.25	1.75
		159			3.25	1.75	3.25	1.75	3.25	1.75
	80 MHz Bandwidth	42					4.50	3.00	4.50	3.00
		58					2.75	1.25	2.75	1.25
		106					3.25	1.75	3.25	1.75
		122					3.25	1.75	3.25	1.75
		138					3.25	1.75	3.25	1.75
		155					3.25	1.75	3.25	1.75

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 25 of 293

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1A active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - Ant 18	20 MHz Bandwidth	36	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		40	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		44	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		48	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		52	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		56	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		60	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		64	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		100	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		149	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		153	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		157	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		161	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		165	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
	40 MHz Bandwidth	38			4.50	3.00	4.50	3.00	4.50	3.00
		46			4.50	3.00	4.50	3.00	4.50	3.00
		54			2.75	1.25	2.75	1.25	2.75	1.25
		62			2.75	1.25	2.75	1.25	2.75	1.25
		102			3.25	1.75	3.25	1.75	3.25	1.75
		110			3.25	1.75	3.25	1.75	3.25	1.75
		118			3.25	1.75	3.25	1.75	3.25	1.75
		126			3.25	1.75	3.25	1.75	3.25	1.75
		134			3.25	1.75	3.25	1.75	3.25	1.75
		142			3.25	1.75	3.25	1.75	3.25	1.75
		151			3.25	1.75	3.25	1.75	3.25	1.75
		159			3.25	1.75	3.25	1.75	3.25	1.75
	80 MHz Bandwidth	42					4.50	3.00	4.50	3.00
		58					2.75	1.25	2.75	1.25
		106					3.25	1.75	3.25	1.75
		122					3.25	1.75	3.25	1.75
		138					3.25	1.75	3.25	1.75
		155					3.25	1.75	3.25	1.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 26 of 293

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1A active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band		Channel	IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - Ant 1B	20 MHz Bandwidth	36	4.50	3.00	4.50	3.00	4.50	3.00
		40	4.50	3.00	4.50	3.00	4.50	3.00
		44	4.50	3.00	4.50	3.00	4.50	3.00
		48	4.50	3.00	4.50	3.00	4.50	3.00
		52	2.75	1.25	2.75	1.25	2.75	1.25
		56	2.75	1.25	2.75	1.25	2.75	1.25
		60	2.75	1.25	2.75	1.25	2.75	1.25
		64	2.75	1.25	2.75	1.25	2.75	1.25
		100	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75
		149	3.25	1.75	3.25	1.75	3.25	1.75
		153	3.25	1.75	3.25	1.75	3.25	1.75
		157	3.25	1.75	3.25	1.75	3.25	1.75
		161	3.25	1.75	3.25	1.75	3.25	1.75
		165	3.25	1.75	3.25	1.75	3.25	1.75
	40 MHz Bandwidth	38	4.50	3.00	4.50	3.00	4.50	3.00
		46	4.50	3.00	4.50	3.00	4.50	3.00
		54	2.75	1.25	2.75	1.25	2.75	1.25
		62	2.75	1.25	2.75	1.25	2.75	1.25
		102	3.25	1.75	3.25	1.75	3.25	1.75
		110	3.25	1.75	3.25	1.75	3.25	1.75
		118	3.25	1.75	3.25	1.75	3.25	1.75
		126	3.25	1.75	3.25	1.75	3.25	1.75
		134	3.25	1.75	3.25	1.75	3.25	1.75
		142	3.25	1.75	3.25	1.75	3.25	1.75
		151	3.25	1.75	3.25	1.75	3.25	1.75
		159	3.25	1.75	3.25	1.75	3.25	1.75
	80 MHz Bandwidth	42			4.50	3.00	4.50	3.00
		58			2.75	1.25	2.75	1.25
		106			3.25	1.75	3.25	1.75
		122			3.25	1.75	3.25	1.75
		138			3.25	1.75	3.25	1.75
		155			3.25	1.75	3.25	1.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 27 of 293

1.3.5 Bluetooth Maximum Output Power

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Ant 3A
Bluetooth BDR/LE	Maximum	13.75
	Nominal	12.25
Bluetooth EDR	Maximum	13.00
	Nominal	11.50
Bluetooth HDR	Maximum	11.00
	Nominal	9.50

Mode / Band		Modulated Average - MIMO (dBm) - Ant 3A
Bluetooth BDR/LE	Maximum	13.75
	Nominal	12.25
Bluetooth EDR	Maximum	13.00
	Nominal	11.50
Bluetooth HDR	Maximum	11.00
	Nominal	9.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Ant 1A
Bluetooth BDR/LE	Maximum	13.75
	Nominal	12.25
Bluetooth EDR	Maximum	13.00
	Nominal	11.50
Bluetooth HDR	Maximum	11.00
	Nominal	9.50

Mode / Band		Modulated Average - MIMO (dBm) - Ant 1A
Bluetooth BDR/LE	Maximum	13.75
	Nominal	12.25
Bluetooth EDR	Maximum	13.00
	Nominal	11.50
Bluetooth HDR	Maximum	11.00
	Nominal	9.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 28 of 293

1.3.1

Bluetooth Reduced Output Power

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3A/3B Active
- Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Ant 3A
Bluetooth BDR/LE Reduced	Maximum	6.75
	Nominal	5.25
Bluetooth EDR Reduced	Maximum	6.75
	Nominal	5.25
Bluetooth HDR Reduced	Maximum	6.75
	Nominal	5.25

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3A/3B active
- Simultaneous conditions with LTE Inter-band ULCA active

Mode / Band		Modulated Average - MIMO (dBm) - Ant 3A
Bluetooth BDR/LE Reduced	Maximum	6.75
	Nominal	5.25
Bluetooth EDR Reduced	Maximum	6.75
	Nominal	5.25
Bluetooth HDR Reduced	Maximum	6.75
	Nominal	5.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1A active
- Simultaneous conditions with Licensed Bands Antenna 1A active and/or 5 GHz WLAN
- Simultaneous conditions with LTE Inter-band ULCA active
- Simultaneous conditions with LTE Inter-band ULCA active and/or 5 GHz WLAN

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Ant 1A
Bluetooth BDR/LE Reduced	Maximum	6.75
	Nominal	5.25
Bluetooth EDR Reduced	Maximum	6.75
	Nominal	5.25
Bluetooth HDR Reduced	Maximum	6.75
	Nominal	5.25

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 29 of 293

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1A active
- Simultaneous conditions with Licensed Bands Antenna 1A active and/or 5 GHz WLAN
- Simultaneous conditions with LTE Inter-band ULCA active
- Simultaneous conditions with LTE Inter-band ULCA active and/or 5 GHz WLAN

Mode / Band		Modulated Average - MIMO (dBm) - Ant 1A
Bluetooth BDR/LE Reduced	Maximum	6.75
	Nominal	5.25
Bluetooth EDR Reduced	Maximum	6.75
	Nominal	5.25
Bluetooth HDR Reduced	Maximum	6.75
	Nominal	5.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 30 of 293

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 4	Yes	No	Yes	No	No	Yes
GPRS 1900 Ant 4	Yes	No	Yes	No	No	Yes
UMTS 850 Ant 4	Yes	No	Yes	No	No	Yes
UMTS 1750 Ant 4	Yes	No	Yes	No	No	Yes
UMTS 1900 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 71 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 12 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 13 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 14 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 26 (Cell) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 5 (Cell) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 4 (AWS) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 66 (AWS) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 2 (PCS) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 25 (PCS) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 30 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 7 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 41 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 48 Ant 4	Yes	No	Yes	No	No	Yes
GPRS 850 Ant 3B	Yes	No	Yes	No	Yes	No
UMTS 850 Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 71 Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 12 Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 13 Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 14 Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 26 (Cell) Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 5 (Cell) Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 48 Ant 3B	Yes	No	Yes	No	Yes	No
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 1A	Yes	No	No	Yes	No	Yes
UMTS 1750 Ant 1A	Yes	No	No	Yes	No	Yes
UMTS 1900 Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 4 (AWS) Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 66 (AWS) Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 2 (PCS) Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 25 (PCS) Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 30 Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 7 Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 41 Ant 1A	Yes	No	No	Yes	No	Yes
GPRS 1900 Ant 3A	Yes	No	Yes	No	Yes	No
UMTS 1750 Ant 3A	Yes	No	Yes	No	Yes	No
UMTS 1900 Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 4 (AWS) Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 66 (AWS) Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 2 (PCS) Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 25 (PCS) Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 30 Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 7 Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 41 Ant 3A	Yes	No	Yes	No	Yes	No
2.4 GHz WLAN Ant 1A	Yes	No	No	Yes	No	Yes
2.4 GHz WLAN Ant 3A	Yes	No	Yes	No	Yes	No
WLAN 5GHz Ant 1B	Yes	No	No	Yes	No	Yes
WLAN 5GHz Ant 2A	Yes	No	No	Yes	Yes	No
WLAN 5GHz Ant 2B	Yes	No	No	Yes	Yes	No
Bluetooth Ant 1A	Yes	No	No	Yes	No	Yes
Bluetooth Ant 3A	Yes	No	Yes	No	Yes	No

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 31 of 293

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.

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-band ULCA

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

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

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 32 of 293

Table 1-4
Simultaneous Transmission Scenarios of 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. 5 GHz WLAN Ant 1B and Ant 2A cannot transmit simultaneously.
4. 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.
5. While 5 GHz MIMO is active, 5 GHz Ant 2B and Ant 2A or 5 GHz Ant 2B and Ant 1B can be transmitting together.
6. This device supports VOWIFI.

1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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) 1 2 Tx antenna output
- d) 256 QAM is supported
- e) TDWR and Band gap channels are supported

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

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 33 of 293

- 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. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation 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.

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 34 of 293

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

1.7 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02 (2G/3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Tablet, Proximity Sensor)
- 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.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 35 of 293

LTE Information				
Form Factor	Tablet Device			
Frequency Range of each LTE transmission band	LTE Band 71 (665.5 - 695.5 MHz)			
	LTE Band 12 (699.7 - 715.3 MHz)			
	LTE Band 17 (706.5 - 713.5 MHz)			
	LTE Band 13 (779.5 - 784.5 MHz)			
	LTE Band 14 (790.5 - 795.5 MHz)			
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)			
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)			
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)			
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)			
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)			
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)			
	LTE Band 30 (2307.5 - 2312.5 MHz)			
	LTE Band 7 (2502.5 - 2567.5 MHz)			
	LTE Band 41 (2498.5 - 2567.5 MHz)			
	LTE Band 48 (3552.5 - 3697.5 MHz)			
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 17: 5 MHz, 10 MHz			
	LTE Band 13: 5 MHz, 10 MHz			
	LTE Band 14: 5 MHz, 10 MHz			
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 30: 5 MHz, 10 MHz			
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High
LTE Band 71: 5 MHz	665.5 (133147)	680.5 (133297)	695.5 (133447)	
LTE Band 71: 10 MHz	665 (133172)	680.5 (133297)	693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz	706.5 (23755)	710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)	710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	N/A	782 (23230)	N/A	
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	N/A	793 (23330)	N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)	831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)	831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)	831.5 (26865)	844 (26990)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)	836.5 (20525)	848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)	836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)	836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	828 (20450)	836.5 (20525)	844 (20600)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19967)	1732.5 (20175)	1754.3 (20383)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)	
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)	1745 (132322)	1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)	
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)	
LTE Band 25 (PCS): 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)	
LTE Band 30: 5 MHz	2307.5 (27685)	2310 (27710)	2312.5 (27735)	
LTE Band 30: 10 MHz	N/A	2310 (27710)	N/A	
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (20800)	2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)	
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2560 (21350)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 48: 5 MHz	3552.5 (55295)	3602.5 (55748)	N/A	3649.5 (56232)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)
UE Category	DL UE Cat 19 (QPSK, 16QAM, 64QAM, 256QAM), UL UE Cat 13 (QPSK, 16QAM, 64QAM)			
Modulations Supported in UL	QPSK, 16QAM, 64QAM			
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES			
A-MPR (Additional MPR) disabled for SAR Testing?	YES			
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations			
LTE Additional Information	This device does not support full CA features on 3GPP Release 13. It supports carrier aggregation and downlink MIMO features as shown in Section 8 and Appendix F. All other uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC unless otherwise specified. The following LTE Release 13 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.			

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 36 of 293

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]

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 37 of 293

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.

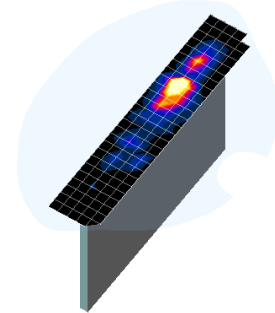


Figure 4-1
Sample SAR Area
Scan

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

*Also compliant to IEEE 1528-2013 Table 6

FCC ID: BCGA2324		SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 38 of 293

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.

5.3 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close the user's body.

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions. Sensor triggering distance summary data is included in Appendix G.

The sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the sensor entirely covers the antennas.

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 39 of 293

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.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 40 of 293

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.

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 41 of 293

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 tablet device 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.

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 42 of 293

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

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 43 of 293

carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the 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:

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 44 of 293

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

2.4 GHz 802.11 g/n/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). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 45 of 293

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.

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 46 of 293

8 RF CONDUCTED POWERS

8.1 GSM Conducted Powers

Table 8-1
Conducted Power Ant 4

Maximum Burst-Averaged Output Power					
Band	Channel	GPRS/EDGE Data (GMSK)		EDGE Data (8-PSK)	
		GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 850	128	31.10	28.18	27.26	26.50
	190	31.05	28.18	27.24	26.28
	251	31.04	28.15	27.20	26.28
GSM 1900	512	25.98	22.81	25.77	22.83
	661	25.94	22.84	25.78	22.87
	810	25.82	22.84	25.83	22.90
Calculated Maximum Frame-Averaged Output Power					
Band	Channel	GPRS/EDGE Data (GMSK)		EDGE Data (8-PSK)	
		GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 850	128	21.90	21.99	18.06	20.31
	190	21.85	21.99	18.04	20.09
	251	21.84	21.96	18.00	20.09
GSM 1900	512	16.78	16.62	16.57	16.64
	661	16.74	16.65	16.58	16.68
	810	16.62	16.65	16.63	16.71
GSM 850	Frame Avg.Targets:	21.25	21.26	17.55	19.56
GSM 1900		16.05	16.06	16.05	16.06

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 47 of 293

Table 8-2
Conducted Power Ant 3B

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	27.74	24.74	25.98	24.75
	190	27.66	24.69	25.90	24.68
	251	27.64	24.72	25.93	24.73
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	18.54	18.55	16.78	18.56
	190	18.46	18.50	16.70	18.49
	251	18.44	18.53	16.73	18.54
GSM 850	Frame Avg.Targets:	17.85	17.86	16.05	17.86

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 48 of 293

Table 8-3
Conducted Power Ant 2A

Maximum Burst-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		EDGE Data (8-PSK)	
Band	Channel	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	24.05	20.98	22.83	21.12
	661	23.88	20.86	22.71	21.00
	810	23.51	20.70	22.59	20.86
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	14.85	14.79	13.63	14.93
	661	14.68	14.67	13.51	14.81
	810	14.31	14.51	13.39	14.67
GSM 1900	Frame Avg.Targets:	14.25	14.26	13.05	14.26

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 49 of 293

Table 8-4
Conducted Power Ant 1A

Maximum Burst-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		EDGE Data (8-PSK)	
Band	Channel	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	24.91	21.78	23.67	21.91
	661	24.86	21.70	23.66	21.89
	810	24.96	21.76	23.79	21.99
Calculated Maximum Frame-Averaged Output Power					
		GPRS/EDGE Data (GMSK)		EDGE Data (8-PSK)	
Band	Channel	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	15.71	15.59	14.47	15.72
	661	15.66	15.51	14.46	15.70
	810	15.76	15.57	14.59	15.80
GSM 1900	Frame Avg.Targets:	15.05	15.06	14.05	15.06

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 50 of 293

Table 8-5
Conducted Power Ant 3A

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	22.66	20.26	22.68	20.39
	661	22.67	20.24	22.64	20.36
	810	22.67	20.29	22.61	20.28
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	13.46	14.07	13.48	14.20
	661	13.47	14.05	13.44	14.17
	810	13.47	14.10	13.41	14.09
GSM 1900	Frame Avg.Targets:	13.45	13.46	13.45	13.46

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 51 of 293

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

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 52 of 293

8.2 UMTS Conducted Powers

Table 8-6
Conducted Power Ant 4

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	20.95	20.98	20.84	15.49	15.32	15.43	16.27	16.27	16.28	-
6	HSDPA	Subtest 1	20.91	20.93	20.83	15.45	15.42	15.21	16.27	16.29	16.30	0
6		Subtest 2	20.87	20.90	20.80	15.32	15.38	15.31	16.25	16.29	16.27	0
6		Subtest 3	20.85	20.88	20.74	15.38	15.39	15.30	16.25	16.30	16.24	0
6		Subtest 4	20.84	20.86	20.73	15.39	15.44	15.29	16.26	16.29	16.25	0
6	HSUPA	Subtest 1	20.75	20.71	20.60	15.33	15.35	15.24	16.27	16.29	16.28	0
6		Subtest 2	20.80	20.85	20.71	15.32	15.40	15.23	16.28	16.30	16.26	0
6		Subtest 3	20.73	20.70	20.60	15.31	15.33	15.22	16.27	16.29	16.27	0
6		Subtest 4	20.78	20.79	20.64	15.29	15.32	15.26	16.28	16.29	16.27	0
8	DC-HSDPA	Subtest 1	20.93	20.89	20.76	15.29	15.31	15.26	16.29	16.28	16.28	0
8		Subtest 2	20.96	20.90	20.78	15.40	15.38	15.26	16.28	16.29	16.30	0
8		Subtest 3	20.92	20.89	20.78	15.39	15.37	15.31	16.30	16.28	16.28	0
8		Subtest 4	20.91	20.88	20.76	15.35	15.36	15.24	16.26	16.30	16.29	0
8			20.92	20.86	20.75	15.33	15.34	15.25	16.25	16.29	16.28	0

Table 8-7
Conducted Power Ant 3B

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	18.09	18.00	18.10	-
6	HSDPA	Subtest 1	18.08	17.98	18.10	0
6		Subtest 2	18.01	17.93	18.05	0
6		Subtest 3	18.00	17.89	18.00	0
6		Subtest 4	17.98	17.88	17.98	0
6	HSUPA	Subtest 1	18.05	17.93	18.05	0
6		Subtest 2	17.96	17.88	17.95	0
6		Subtest 3	17.99	17.90	17.97	0
6		Subtest 4	17.95	17.89	17.94	0
6		Subtest 5	18.04	17.92	18.05	0
8	DC-HSDPA	Subtest 1	18.10	17.94	18.06	0
8		Subtest 2	18.05	17.96	18.05	0
8		Subtest 3	18.04	17.93	18.00	0
8		Subtest 4	18.02	17.90	17.95	0

Table 8-8
Conducted Power Ant 2A

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	14.61	14.80	14.65	14.66	14.58	14.51	-
6	HSDPA	Subtest 1	14.90	14.80	14.81	14.69	14.65	14.76	0
6		Subtest 2	14.90	14.84	14.90	14.78	14.72	14.77	0
6		Subtest 3	14.90	14.83	14.90	14.75	14.79	14.68	0
6		Subtest 4	14.90	14.84	14.90	14.66	14.77	14.72	0
6	HSUPA	Subtest 1	14.74	14.69	14.78	14.65	14.53	14.54	0
6		Subtest 2	14.90	14.78	14.84	14.80	14.77	14.68	0
6		Subtest 3	14.75	14.67	14.72	14.67	14.61	14.58	0
6		Subtest 4	14.84	14.57	14.61	14.77	14.48	14.39	0
6		Subtest 5	14.87	14.79	14.88	14.80	14.75	14.73	0
8	DC-HSDPA	Subtest 1	14.88	14.78	14.86	14.69	14.48	14.72	0
8		Subtest 2	14.70	14.45	14.57	14.30	14.75	14.55	0
8		Subtest 3	14.19	14.18	14.08	14.11	14.20	14.24	0
8		Subtest 4	14.15	14.34	14.40	14.08	14.23	14.22	0

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 53 of 293

Table 8-9
Conducted Power Ant 1A

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	14.64	14.73	14.43	14.59	14.48	14.61	-
6	HSDPA	Subtest 1	14.76	14.84	14.52	14.60	14.66	14.78	0
6		Subtest 2	14.75	14.71	14.49	14.59	14.57	14.71	0
6		Subtest 3	14.71	14.74	14.48	14.63	14.58	14.69	0
6		Subtest 4	14.70	14.75	14.45	14.66	14.55	14.70	0
6	HSUPA	Subtest 1	14.73	14.78	14.50	14.59	14.51	14.70	0
6		Subtest 2	14.77	14.71	14.44	14.65	14.62	14.71	0
6		Subtest 3	14.74	14.69	14.45	14.61	14.59	14.68	0
6		Subtest 4	14.72	14.73	14.43	14.58	14.54	14.57	0
6		Subtest 5	14.79	14.81	14.53	14.60	14.51	14.68	0
8	DC-HSDPA	Subtest 1	14.82	14.83	14.49	14.58	14.47	14.60	0
8		Subtest 2	14.75	14.77	14.49	14.68	14.57	14.63	0
8		Subtest 3	14.70	14.73	14.51	14.58	14.49	14.64	0
8		Subtest 4	14.71	14.76	14.45	14.58	14.52	14.62	0

Table 8-10
Conducted Power Ant 3A

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	13.82	13.99	13.73	14.20	13.99	14.07	-
6	HSDPA	Subtest 1	13.85	13.94	13.76	13.70	13.62	13.75	0
6		Subtest 2	13.82	13.91	13.75	13.74	13.68	13.79	0
6		Subtest 3	13.82	13.92	13.75	13.77	13.61	13.69	0
6		Subtest 4	13.81	13.91	13.76	13.73	13.66	13.71	0
6	HSUPA	Subtest 1	13.83	13.92	13.70	13.68	13.65	13.78	0
6		Subtest 2	13.77	13.93	13.70	13.78	13.67	13.80	0
6		Subtest 3	13.82	13.91	13.66	13.76	13.65	13.71	0
6		Subtest 4	13.80	13.92	13.67	13.50	13.62	13.69	0
6		Subtest 5	13.87	13.90	13.71	13.77	13.61	13.75	0
8	DC-HSDPA	Subtest 1	13.86	13.99	13.76	13.69	13.59	13.71	0
8		Subtest 2	13.85	13.96	13.75	13.79	13.67	13.78	0
8		Subtest 3	13.86	13.99	13.76	13.77	13.68	13.76	0
8		Subtest 4	13.85	13.98	13.75	13.73	13.69	13.73	0

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

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 54 of 293

8.3 LTE Conducted Powers

8.3.1

LTE Band 71

Table 8-11
LTE Band 71 Conducted Powers Ant 4 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.45	0	0
	1	50	22.30		0
	1	99	22.43		0
	50	0	22.18	0-1	0
	50	25	22.27		0
	50	50	22.26		0
	100	0	22.25		0
16QAM	1	0	22.41	0-1	0
	1	50	22.14		0
	1	99	22.30		0
	50	0	21.68	0-2	0
	50	25	21.76		0
	50	50	21.75		0
	100	0	21.77		0
64QAM	1	0	22.15	0-2	0
	1	50	21.98		0
	1	99	22.07		0
	50	0	21.75	0-3	0
	50	25	21.76		0
	50	50	21.74		0
	100	0	21.78		0

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

Table 8-12
LTE Band 71 Conducted Powers Ant 4 - 15 MHz Bandwidth

LTE Band 71 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.45	0	0
	1	36	22.35		0
	1	74	22.16		0
	36	0	22.30	0-1	0
	36	18	22.37		0
	36	37	22.28		0
	75	0	22.38		0
16QAM	1	0	22.50	0-1	0
	1	36	22.50		0
	1	74	22.30		0
	36	0	22.06	0-2	0
	36	18	22.16		0
	36	37	22.10		0
	75	0	22.16		0
64QAM	1	0	22.43	0-2	0
	1	36	22.42		0
	1	74	22.23		0
	36	0	22.12	0-3	0
	36	18	22.22		0
	36	37	22.13		0
	75	0	22.16		0

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

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 55 of 293

Table 8-13
LTE Band 71 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 71 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133172 (668.0 MHz)	133297 (680.5 MHz)	133422 (693.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.48	22.30	22.32	0	0
	1	25	22.48	22.24	22.24		0
	1	49	22.23	22.33	22.37		0
	25	0	22.36	22.30	22.33	0-1	0
	25	12	22.31	22.32	22.32		0
	25	25	22.33	22.38	22.35		0
	50	0	22.34	22.35	22.35		0
16QAM	1	0	22.46	22.49	22.36	0-1	0
	1	25	22.32	22.40	22.46		0
	1	49	22.24	22.49	22.50		0
	25	0	22.18	22.11	22.13	0-2	0
	25	12	22.07	22.08	22.12		0
	25	25	22.12	22.14	22.17		0
	50	0	22.11	22.12	22.17		0
64QAM	1	0	22.48	22.35	22.35	0-2	0
	1	25	22.22	22.46	22.34		0
	1	49	22.18	22.47	22.50		0
	25	0	22.17	22.06	22.11	0-3	0
	25	12	22.17	22.09	22.13		0
	25	25	22.13	22.14	22.19		0
	50	0	22.14	22.14	22.16		0

Table 8-14
LTE Band 71 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 71 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133147 (665.5 MHz)	133297 (680.5 MHz)	133447 (695.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.18	22.13	22.23	0	0
	1	12	22.02	22.14	22.28		0
	1	24	21.96	22.21	22.42		0
	12	0	22.19	22.06	22.02	0-1	0
	12	6	22.12	22.05	22.08		0
	12	13	22.08	22.10	22.16		0
	25	0	22.13	22.08	22.11		0
16QAM	1	0	22.50	22.13	22.19	0-1	0
	1	12	22.28	22.12	22.48		0
	1	24	22.27	22.20	22.38		0
	12	0	21.98	21.80	21.77	0-2	0
	12	6	21.83	21.83	21.79		0
	12	13	21.91	21.81	21.92		0
	25	0	21.82	21.77	21.85		0
64QAM	1	0	22.31	22.10	22.35	0-2	0
	1	12	22.08	22.16	22.25		0
	1	24	22.02	22.31	22.27		0
	12	0	21.91	21.77	21.75	0-3	0
	12	6	21.84	21.76	21.82		0
	12	13	21.82	21.83	21.87		0
	25	0	21.82	21.77	21.78		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 56 of 293

Table 8-15
LTE Band 71 Conducted Powers Ant 3B - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.83	0	0
	1	50	19.97		0
	1	99	20.00		0
	50	0	19.99	0-1	0
	50	25	19.84		0
	50	50	20.03		0
	100	0	19.93		0
16QAM	1	0	19.90	0-1	0
	1	50	19.70		0
	1	99	19.98		0
	50	0	19.42	0-2	0
	50	25	19.32		0
	50	50	19.35		0
	100	0	19.36		0
64QAM	1	0	19.98	0-2	0
	1	50	19.74		0
	1	99	20.00		0
	50	0	19.67	0-3	0
	50	25	19.59		0
	50	50	19.61		0
	100	0	19.60		0

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

Table 8-16
LTE Band 71 Conducted Powers Ant 3B - 15 MHz Bandwidth

LTE Band 71 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.49	0	0
	1	36	19.74		0
	1	74	19.32		0
	36	0	19.68	0-1	0
	36	18	19.78		0
	36	37	19.60		0
	75	0	19.74		0
16QAM	1	0	19.32	0-1	0
	1	36	19.66		0
	1	74	19.23		0
	36	0	19.32	0-2	0
	36	18	19.45		0
	36	37	19.29		0
	75	0	19.39		0
64QAM	1	0	19.43	0-2	0
	1	36	19.76		0
	1	74	19.35		0
	36	0	19.31	0-3	0
	36	18	19.45		0
	36	37	19.29		0
	75	0	19.37		0

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

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 57 of 293

Table 8-17
LTE Band 71 Conducted Powers Ant 3B - 10 MHz Bandwidth

LTE Band 71 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133172 (668.0 MHz)	133297 (680.5 MHz)	133422 (693.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.51	19.52	19.39	0	0
	1	25	19.71	19.71	19.58		0
	1	49	19.61	19.55	19.66		0
	25	0	19.62	19.76	19.63	0-1	0
	25	12	19.76	19.77	19.64		0
	25	25	19.89	19.71	19.73		0
	50	0	19.78	19.76	19.65		0
16QAM	1	0	19.39	19.43	19.21	0-1	0
	1	25	19.57	19.64	19.49		0
	1	49	19.50	19.44	19.66		0
	25	0	19.26	19.43	19.32	0-2	0
	25	12	19.39	19.41	19.34		0
	25	25	19.53	19.34	19.44		0
	50	0	19.41	19.41	19.35		0
64QAM	1	0	19.40	19.44	19.49	0-2	0
	1	25	19.46	19.54	19.68		0
	1	49	19.35	19.36	19.70		0
	25	0	19.23	19.32	19.25	0-3	0
	25	12	19.34	19.35	19.28		0
	25	25	19.45	19.30	19.36		0
	50	0	19.38	19.35	19.26		0

Table 8-18
LTE Band 71 Conducted Powers Ant 3B - 5 MHz Bandwidth

LTE Band 71 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133147 (665.5 MHz)	133297 (680.5 MHz)	133447 (695.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.65	19.96	19.70	0	0
	1	12	19.59	19.90	19.70		0
	1	24	19.81	19.85	19.69		0
	12	0	19.44	19.75	19.77	0-1	0
	12	6	19.47	19.68	19.74		0
	12	13	19.59	19.63	19.68		0
	25	0	19.51	19.70	19.74		0
16QAM	1	0	19.42	19.63	19.38	0-1	0
	1	12	19.32	19.65	19.46		0
	1	24	19.57	19.59	19.56		0
	12	0	19.11	19.31	19.29	0-2	0
	12	6	19.12	19.29	19.29		0
	12	13	19.21	19.20	19.24		0
	25	0	19.15	19.27	19.28		0
64QAM	1	0	19.34	19.60	19.62	0-2	0
	1	12	19.27	19.55	19.60		0
	1	24	19.50	19.47	19.65		0
	12	0	19.15	19.19	19.34	0-3	0
	12	6	19.13	19.16	19.35		0
	12	13	19.14	19.13	19.31		0
	25	0	19.11	19.20	19.24		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 58 of 293

8.3.2

LTE Band 12

Table 8-19
LTE Band 12 Conducted Powers Ant 4 - 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	20.50	0	0
	1	25	20.39		0
	1	49	20.49		0
	25	0	20.31	0-1	0
	25	12	20.37		0
	25	25	20.45		0
	50	0	20.39		0
	50	0	20.39		0
16QAM	1	0	20.84	0-1	0
	1	25	20.45		0
	1	49	20.63		0
	25	0	20.10	0-2	0
	25	12	20.15		0
	25	25	20.23		0
	50	0	20.16		0
	50	0	20.16		0
64QAM	1	0	20.87	0-2	0
	1	25	20.66		0
	1	49	20.84		0
	25	0	20.38	0-3	0
	25	12	20.44		0
	25	25	20.50		0
	50	0	20.45		0
	50	0	20.45		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 8-20
LTE Band 12 Conducted Powers Ant 4 - 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	20.68	20.17	20.62	0	0
	1	12	20.72	20.18	20.61		0
	1	24	20.55	20.29	20.65		0
	12	0	20.50	20.23	20.50	0-1	0
	12	6	20.52	20.29	20.48		0
	12	13	20.52	20.37	20.52		0
	25	0	20.55	20.30	20.49	0	
16QAM	1	0	20.78	20.76	20.90	0-1	0
	1	12	20.90	20.75	20.79		0
	1	24	20.67	20.90	20.89		0
	12	0	20.47	20.29	20.53	0-2	0
	12	6	20.53	20.35	20.52		0
	12	13	20.55	20.43	20.45		0
	25	0	20.57	20.32	20.45	0	
64QAM	1	0	20.77	20.64	20.90	0-2	0
	1	12	20.90	20.40	20.90		0
	1	24	20.51	20.81	20.75		0
	12	0	20.53	20.25	20.45	0-3	0
	12	6	20.56	20.32	20.45		0
	12	13	20.53	20.39	20.51		0
	25	0	20.56	20.30	20.48	0	

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 59 of 293

Table 8-21
LTE Band 12 Conducted Powers Ant 4 - 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	20.49	20.35	20.45	0	0
	1	7	20.54	20.45	20.52		0
	1	14	20.54	20.47	20.39		0
	8	0	20.56	20.26	20.52	0-1	0
	8	4	20.53	20.31	20.56		0
	8	7	20.59	20.35	20.52		0
	15	0	20.55	20.34	20.59		0
16QAM	1	0	20.68	20.71	20.82	0-1	0
	1	7	20.90	20.81	20.90		0
	1	14	20.81	20.83	20.90		0
	8	0	20.53	20.25	20.52	0-2	0
	8	4	20.46	20.23	20.57		0
	8	7	20.56	20.36	20.47		0
	15	0	20.50	20.23	20.54		0
64QAM	1	0	20.65	20.69	20.90	0-2	0
	1	7	20.90	20.79	20.90		0
	1	14	20.90	20.68	20.85		0
	8	0	20.46	20.28	20.51	0-3	0
	8	4	20.44	20.32	20.53		0
	8	7	20.55	20.35	20.53		0
	15	0	20.49	20.35	20.48		0

Table 8-22
LTE Band 12 Conducted Powers Ant 4 - 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	20.55	20.46	20.78	0	0
	1	2	20.53	20.43	20.74		0
	1	5	20.55	20.46	20.75		0
	3	0	20.57	20.42	20.56		0
	3	2	20.59	20.39	20.55		0
	3	3	20.58	20.36	20.52		0
	6	0	20.52	20.31	20.49	0-1	0
16QAM	1	0	20.81	20.90	20.90	0-1	0
	1	2	20.79	20.57	20.83		0
	1	5	20.90	20.79	20.90		0
	3	0	20.72	20.55	20.63		0
	3	2	20.62	20.51	20.61		0
	3	3	20.66	20.42	20.41		0
	6	0	20.61	20.38	20.49	0-2	0
64QAM	1	0	20.90	20.71	20.66	0-2	0
	1	2	20.53	20.65	20.90		0
	1	5	20.90	20.66	20.90		0
	3	0	20.68	20.46	20.80		0
	3	2	20.64	20.44	20.80		0
	3	3	20.54	20.34	20.77		0
	6	0	20.56	20.26	20.49	0-3	0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 60 of 293

Table 8-23
LTE Band 12 Conducted Powers Ant 4 - 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	17.75	0	0
	1	25	17.39		0
	1	49	17.63		0
	25	0	17.43	0-1	0
	25	12	17.41		0
	25	25	17.47		0
	50	0	17.46		0
16QAM	1	0	17.75	0-1	0
	1	25	17.35		0
	1	49	17.60		0
	25	0	17.19	0-2	0
	25	12	17.12		0
	25	25	17.23		0
	50	0	17.16		0
64QAM	1	0	17.74	0-2	0
	1	25	17.22		0
	1	49	17.61		0
	25	0	17.21	0-3	0
	25	12	17.12		0
	25	25	17.20		0
	50	0	17.17		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 8-24
LTE Band 12 Conducted Powers Ant 4 - 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	17.81	17.50	17.67	0	0
	1	12	17.75	17.44	17.72		0
	1	24	17.61	17.52	17.70		0
	12	0	17.66	17.36	17.53	0-1	0
	12	6	17.66	17.35	17.62		0
	12	13	17.61	17.40	17.64		0
	25	0	17.66	17.40	17.62		0
16QAM	1	0	17.74	17.41	17.62	0-1	0
	1	12	17.62	17.66	17.74		0
	1	24	17.54	17.41	17.65		0
	12	0	17.35	17.08	17.27	0-2	0
	12	6	17.33	17.09	17.32		0
	12	13	17.35	17.16	17.30		0
	25	0	17.34	17.10	17.31		0
64QAM	1	0	17.76	17.35	17.66	0-2	0
	1	12	17.67	17.32	17.73		0
	1	24	17.50	17.37	17.62		0
	12	0	17.40	17.04	17.29	0-3	0
	12	6	17.38	17.03	17.31		0
	12	13	17.33	17.12	17.32		0
	25	0	17.36	17.05	17.30		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 61 of 293

Table 8-25
LTE Band 12 Conducted Powers Ant 4 - 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	17.75	17.59	17.66	0	0
	1	7	17.85	17.73	17.80		0
	1	14	17.76	17.68	17.69		0
	8	0	17.79	17.50	17.73	0-1	0
	8	4	17.82	17.56	17.82		0
	8	7	17.84	17.59	17.89		0
	15	0	17.89	17.61	17.88		0
16QAM	1	0	17.76	17.36	17.72	0-1	0
	1	7	17.81	17.39	17.70		0
	1	14	17.71	17.34	17.82		0
	8	0	17.20	16.91	17.22	0-2	0
	8	4	17.28	16.97	17.27		0
	8	7	17.25	16.93	17.36		0
	15	0	17.29	16.96	17.26		0
64QAM	1	0	17.72	17.43	17.78	0-2	0
	1	7	17.71	17.42	17.82		0
	1	14	17.62	17.51	17.79		0
	8	0	17.22	17.33	17.16	0-3	0
	8	4	17.27	17.26	17.26		0
	8	7	17.30	17.40	17.33		0
	15	0	17.29	17.15	17.24		0

Table 8-26
LTE Band 12 Conducted Powers Ant 4 - 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	17.54	17.38	17.74	0	0
	1	2	17.53	17.36	17.79		0
	1	5	17.63	17.42	17.75		0
	3	0	17.57	17.29	17.62		0
	3	2	17.56	17.32	17.60		0
	3	3	17.59	17.32	17.64		0
	6	0	17.52	17.25	17.56		0
16QAM	1	0	17.57	17.40	17.78	0-1	0
	1	2	17.60	17.53	17.66		0
	1	5	17.81	17.67	17.60		0
	3	0	17.49	17.19	17.38		0
	3	2	17.60	17.25	17.48		0
	3	3	17.57	17.24	17.50		0
	6	0	17.41	17.02	17.35		0
64QAM	1	0	17.80	17.65	17.78	0-2	0
	1	2	17.75	17.61	17.86		0
	1	5	17.82	17.66	17.81		0
	3	0	17.38	17.19	17.34		0
	3	2	17.30	17.17	17.28		0
	3	3	17.26	17.13	17.23		0
	6	0	17.24	17.07	17.06		0-3

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 62 of 293

Table 8-27
LTE Band 12 Conducted Powers Ant 3B - 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	18.12	0	0
	1	25	18.07		0
	1	49	18.31		0
	25	0	18.04	0-1	0
	25	12	18.10		0
	25	25	18.20		0
16QAM	1	0	18.12	0-1	0
	1	25	18.07		0
	1	49	18.39		0
	25	0	18.09	0-2	0
	25	12	18.14		0
	25	25	18.18		0
64QAM	50	0	18.14	0-2	0
	1	0	18.38		0
	1	25	18.34		0
	1	49	18.40	0-3	0
	25	0	18.05		0
	25	12	18.13		0
	25	25	18.25		0
	50	0	18.13		0
					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 8-28
LTE Band 12 Conducted Powers Ant 3B - 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	18.40	17.95	18.40	0	0
	1	12	18.40	18.02	18.28		0
	1	24	18.37	18.14	18.40		0
	12	0	18.20	17.98	18.15	0-1	0
	12	6	18.19	18.05	18.12		0
	12	13	18.17	18.10	18.16		0
16QAM	25	0	18.22	18.09	18.15	0-1	0
	1	0	18.50	18.26	18.40		0
	1	12	18.40	18.40	18.42		0
	1	24	18.43	18.50	18.30	0-2	0
	12	0	18.05	17.93	18.00		0
	12	6	18.05	18.02	17.96		0
64QAM	12	13	18.06	18.05	17.97	0-2	0
	25	0	18.04	18.01	17.95		0
	1	0	18.45	18.27	18.30		0-2
	1	12	18.29	18.34	18.29	0	
	1	24	18.50	18.43	18.23	0-3	
	12	0	18.04	17.97	17.99		0
12	6	18.08	18.03	17.95	0		
	12	13	17.94	18.01	17.98		0
	25	0	17.97	18.02	17.93		

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 63 of 293

Table 8-29
LTE Band 12 Conducted Powers Ant 3B - 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	18.21	18.12	18.04	0	0
	1	7	18.21	18.26	18.10		0
	1	14	18.15	18.26	17.99		0
	8	0	18.24	18.02	18.10	0-1	0
	8	4	18.16	18.10	18.14		0
	8	7	18.15	18.15	18.18		0
	15	0	18.19	18.16	18.23		0
16QAM	1	0	18.43	18.52	18.31	0-1	0
	1	7	18.55	18.38	18.54		0
	1	14	18.28	18.54	18.48		0
	8	0	18.19	17.92	17.97	0-2	0
	8	4	18.07	17.95	17.95		0
	8	7	18.08	17.98	17.96		0
	15	0	18.05	17.97	18.03		0
64QAM	1	0	18.78	18.41	18.25	0-2	0
	1	7	18.47	18.55	18.55		0
	1	14	18.47	18.55	18.42		0
	8	0	18.12	17.92	17.95	0-3	0
	8	4	18.18	18.04	18.01		0
	8	7	18.01	18.05	18.06		0
	15	0	18.07	18.00	18.04		0

Table 8-30
LTE Band 12 Conducted Powers Ant 3B - 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	18.40	18.22	18.33	0	0
	1	2	18.40	18.21	18.36		0
	1	5	18.40	18.21	18.35		0
	3	0	18.32	18.19	18.27		0
	3	2	18.31	18.18	18.25		0
	3	3	18.32	18.18	18.25		0
	6	0	18.27	18.11	18.20	0-1	0
16QAM	1	0	18.40	18.40	18.35	0-1	0
	1	2	18.38	18.32	18.40		0
	1	5	18.33	18.40	18.38		0
	3	0	18.11	18.17	18.07		0
	3	2	18.17	18.10	18.04		0
	3	3	18.19	18.08	18.03		0
	6	0	18.05	17.98	17.97	0-2	0
64QAM	1	0	18.40	18.40	18.35	0-2	0
	1	2	18.38	18.38	18.40		0
	1	5	18.40	18.36	18.36		0
	3	0	18.19	18.06	18.14		0
	3	2	18.19	18.03	18.14		0
	3	3	18.20	18.07	18.13		0
	6	0	18.03	17.92	17.92	0-3	0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 64 of 293

Table 8-31
LTE Band 12 Conducted Powers Ant 3B - 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	15.88	0	0
	1	25	15.85		0
	1	49	15.90		0
	25	0	15.83	0-1	0
	25	12	15.88		0
	25	25	15.90		0
	50	0	15.89		0
16QAM	1	0	15.80	0-1	0
	1	25	15.74		0
	1	49	15.88		0
	25	0	15.36	0-2	0
	25	12	15.40		0
	25	25	15.57		0
	50	0	15.42		0
64QAM	1	0	15.63	0-2	0
	1	25	15.57		0
	1	49	15.77		0
	25	0	15.40	0-3	0
	25	12	15.43		0
	25	25	15.57		0
	50	0	15.42		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 8-32
LTE Band 12 Conducted Powers Ant 3B - 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	15.90	15.64	15.69	0	0
	1	12	15.88	15.76	15.54		0
	1	24	15.86	15.86	15.57		0
	12	0	15.71	15.51	15.72	0-1	0
	12	6	15.67	15.63	15.62		0
	12	13	15.67	15.68	15.65		0
	25	0	15.71	15.66	15.67		0
16QAM	1	0	15.90	15.81	15.75	0-1	0
	1	12	15.71	15.76	15.69		0
	1	24	15.90	15.86	15.81		0
	12	0	15.47	15.44	15.42	0-2	0
	12	6	15.39	15.52	15.30		0
	12	13	15.38	15.48	15.32		0
	25	0	15.41	15.49	15.31		0
64QAM	1	0	15.58	15.65	15.89	0-2	0
	1	12	15.67	15.60	15.74		0
	1	24	15.77	15.90	15.76		0
	12	0	15.41	15.38	15.40	0-3	0
	12	6	15.37	15.47	15.27		0
	12	13	15.38	15.43	15.30		0
	25	0	15.36	15.45	15.28		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 65 of 293

Table 8-33
LTE Band 12 Conducted Powers Ant 3B - 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	15.82	15.46	15.57	0	0
	1	7	15.80	15.63	15.58		0
	1	14	15.71	15.63	15.48		0
	8	0	15.71	15.49	15.62	0-1	0
	8	4	15.63	15.57	15.63		0
	8	7	15.59	15.59	15.61		0
	15	0	15.66	15.63	15.71		0
16QAM	1	0	15.89	15.53	15.79	0-1	0
	1	7	15.84	15.71	15.79		0
	1	14	15.61	15.67	15.78		0
	8	0	15.39	15.29	15.34	0-2	0
	8	4	15.26	15.40	15.32		0
	8	7	15.32	15.41	15.45		0
	15	0	15.31	15.43	15.37		0
64QAM	1	0	15.78	15.42	15.61	0-2	0
	1	7	15.70	15.90	15.66		0
	1	14	15.67	15.60	15.58		0
	8	0	15.40	15.27	15.31	0-3	0
	8	4	15.28	15.39	15.39		0
	8	7	15.26	15.34	15.41		0
	15	0	15.26	15.38	15.36		0

Table 8-34
LTE Band 12 Conducted Powers Ant 3B - 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	15.89	15.77	15.72	0	0
	1	2	15.90	15.76	15.73		0
	1	5	15.84	15.81	15.73		0
	3	0	15.79	15.65	15.74		0
	3	2	15.77	15.66	15.74		0
	3	3	15.79	15.68	15.74		0
16QAM	6	0	15.73	15.60	15.66	0-1	0
	1	0	15.90	15.32	15.65	0-1	0
	1	2	15.87	15.65	15.64		0
	1	5	15.89	15.81	15.58		0
	3	0	15.70	15.52	15.47		0
	3	2	15.68	15.46	15.54		0
	3	3	15.70	15.52	15.38	0	
64QAM	6	0	15.48	15.29	15.42	0-2	0
	1	0	15.90	15.75	15.84	0-2	0
	1	2	15.89	15.82	15.71		0
	1	5	15.78	15.82	15.90		0
	3	0	15.71	15.47	15.51		0
	3	2	15.65	15.44	15.46		0
	3	3	15.64	15.45	15.45		0
	6	0	15.50	15.29	15.40	0-3	0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 66 of 293

8.3.3

LTE Band 13

Table 8-35
LTE Band 13 Conducted Powers Ant 4 - 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	20.88	0	0
	1	25	20.74		0
	1	49	20.74		0
	25	0	20.55	0-1	0
	25	12	20.58		0
	25	25	20.70		0
	50	0	20.69		0
16QAM	1	0	21.04	0-1	0
	1	25	20.95		0
	1	49	21.02		0
	25	0	20.38	0-2	0
	25	12	20.33		0
	25	25	20.36		0
	50	0	20.44		0
64QAM	1	0	20.95	0-2	0
	1	25	20.80		0
	1	49	20.86		0
	25	0	20.39	0-3	0
	25	12	20.33		0
	25	25	20.38		0
	50	0	20.39		0

Table 8-36
LTE Band 13 Conducted Powers Ant 4 - 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	20.97	0	0
	1	12	21.10		0
	1	24	21.10		0
	12	0	20.80	0-1	0
	12	6	21.00		0
	12	13	20.99		0
	25	0	21.09		0
16QAM	1	0	21.02	0-1	0
	1	12	21.10		0
	1	24	21.10		0
	12	0	20.61	0-2	0
	12	6	20.78		0
	12	13	20.82		0
	25	0	20.70		0
64QAM	1	0	20.73	0-2	0
	1	12	21.10		0
	1	24	21.10		0
	12	0	20.60	0-3	0
	12	6	20.78		0
	12	13	20.75		0
	25	0	20.70		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.

FCC ID: BCGA2324		SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 67 of 293

Table 8-37
LTE Band 13 Conducted Powers Ant 4 - 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	17.97	0	0
	1	25	18.01		0
	1	49	18.05		0
	25	0	17.81	0-1	0
	25	12	17.99		0
	25	25	18.10		0
16QAM	50	0	18.04	0-1	0
	1	0	18.04		0
	1	25	17.99		0
	1	49	17.99	0-2	0
	25	0	17.28		0
	25	12	17.52		0
64QAM	25	25	17.63	0-2	0
	50	0	17.60		0
	1	0	17.95	0-2	0
	1	25	17.85		0
	1	49	17.97		0
	25	0	17.26	0-3	0
	25	12	17.54		0
	25	25	17.67		0
	50	0	17.64		0

Table 8-38
LTE Band 13 Conducted Powers Ant 4 - 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	17.76	0	0
	1	12	17.91		0
	1	24	17.90		0
	12	0	17.98	0-1	0
	12	6	18.03		0
	12	13	18.03		0
16QAM	25	0	17.99	0-1	0
	1	0	17.80		0
	1	12	17.92		0
	1	24	17.88	0-2	0
	12	0	17.53		0
	12	6	17.54		0
64QAM	12	13	17.56	0-2	0
	25	0	17.45		0
	1	0	17.94	0-2	0
	1	12	17.95		0
	1	24	17.97		0
	12	0	17.49	0-3	0
	12	6	17.50		0
	12	13	17.55		0
	25	0	17.50		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.

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 68 of 293

Table 8-39
LTE Band 13 Conducted Powers Ant 3B - 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	19.20	0	0
	1	25	19.10		0
	1	49	19.05		0
	25	0	19.07	0-1	0
	25	12	19.20		0
	25	25	19.19		0
16QAM	50	0	19.15	0-1	0
	1	0	19.10		0
	1	25	19.04		0
	1	49	19.06	0-2	0
	25	0	18.51		0
	25	12	18.71		0
64QAM	25	25	18.75	0-2	0
	50	0	18.67		0
	1	0	19.10	0-2	0
	1	25	18.90		0
	1	49	18.88		0
	25	0	18.58	0-3	0
	25	12	18.77		0
	25	25	18.74		0
	50	0	18.71		0

Table 8-40
LTE Band 13 Conducted Powers Ant 3B - 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	18.92	0	0
	1	12	19.00		0
	1	24	19.05		0
	12	0	19.17	0-1	0
	12	6	19.17		0
	12	13	19.08		0
16QAM	25	0	19.14	0-1	0
	1	0	19.17		0
	1	12	19.19		0
	1	24	19.20	0-2	0
	12	0	18.86		0
	12	6	18.87		0
64QAM	12	13	18.80	0-2	0
	25	0	18.77		0
	1	0	19.10	0-2	0
	1	12	19.12		0
	1	24	19.20		0
	12	0	18.81	0-3	0
	12	6	18.84		0
	12	13	18.76		0
	25	0	18.77		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.

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 69 of 293

Table 8-41
LTE Band 13 Conducted Powers Ant 3B - 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	16.10	0	0
	1	25	16.00		0
	1	49	15.92		0
	25	0	15.91	0-1	0
	25	12	16.07		0
	25	25	15.90		0
16QAM	50	0	16.00	0-1	0
	1	0	16.20		0
	1	25	16.12		0
	1	49	16.15	0-2	0
	25	0	15.74		0
	25	12	15.82		0
64QAM	25	25	15.70	0-2	0
	50	0	15.78		0
	1	0	16.20	0-2	0
	1	25	16.15		0
	1	49	16.16		0
	25	0	15.64	0-3	0
	25	12	15.77		0
	25	25	15.69		0
	50	0	15.75		0

Table 8-42
LTE Band 13 Conducted Powers Ant 3B - 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	15.65	0	0
	1	12	15.81		0
	1	24	15.99		0
	12	0	15.91	0-1	0
	12	6	15.94		0
	12	13	15.79		0
16QAM	25	0	15.89	0-1	0
	1	0	15.90		0
	1	12	15.91		0
	1	24	16.12	0-2	0
	12	0	15.61		0
	12	6	15.62		0
64QAM	12	13	15.51	0-2	0
	25	0	15.57		0
	1	0	15.46	0-2	0
	1	12	15.86		0
	1	24	16.03		0
	12	0	15.40	0-3	0
	12	6	15.55		0
	12	13	15.61		0
	25	0	15.54		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.

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 70 of 293

8.3.4

LTE Band 14

Table 8-43
LTE Band 14 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz) Conducted Power [dBm]		
QPSK	1	0	20.87	0	0
	1	25	20.84		0
	1	49	20.81		0
	25	0	20.93	0-1	0
	25	12	20.92		0
	25	25	20.84		0
	50	0	20.86		0
16QAM	1	0	21.05	0-1	0
	1	25	21.06		0
	1	49	21.05		0
	25	0	20.67	0-2	0
	25	12	20.69		0
	25	25	20.61		0
	50	0	20.60		0
64QAM	1	0	20.81	0-2	0
	1	25	20.83		0
	1	49	20.87		0
	25	0	20.64	0-3	0
	25	12	20.66		0
	25	25	20.59		0
	50	0	20.62		0

Table 8-44
LTE Band 14 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz) Conducted Power [dBm]		
QPSK	1	0	20.56	0	0
	1	12	20.60		0
	1	24	20.64		0
	12	0	20.42	0-1	0
	12	6	20.45		0
	12	13	20.51		0
	25	0	20.42		0
16QAM	1	0	20.69	0-1	0
	1	12	20.80		0
	1	24	20.73		0
	12	0	20.40	0-2	0
	12	6	20.43		0
	12	13	20.52		0
	25	0	20.39		0
64QAM	1	0	20.59	0-2	0
	1	12	20.80		0
	1	24	20.69		0
	12	0	20.38	0-3	0
	12	6	20.37		0
	12	13	20.46		0
	25	0	20.35		0

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

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 71 of 293

Table 8-45
LTE Band 14 Conducted Powers Ant 4 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.88	0	0
	1	25	17.84		0
	1	49	17.80		0
	25	0	17.95	0-1	0
	25	12	17.93		0
	25	25	17.92		0
16QAM	50	0	17.87	0-1	0
	1	0	17.95		0
	1	25	17.82		0
	1	49	17.77	0-2	0
	25	0	17.76		0
	25	12	17.69		0
64QAM	25	25	17.72	0-2	0
	50	0	17.69		0
	1	0	17.92	0-3	0
	1	25	17.81		0
	1	49	17.77		0
	25	0	17.79	0-3	0
	25	12	17.74		0
	25	25	17.71		0
	50	0	17.68		0

Table 8-46
LTE Band 14 Conducted Powers Ant 4 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.76	0	0
	1	12	17.72		0
	1	24	17.82		0
	12	0	17.79	0-1	0
	12	6	17.82		0
	12	13	17.90		0
16QAM	25	0	17.83	0-1	0
	1	0	18.00		0
	1	12	18.03	0-2	0
	1	24	17.96		0
	12	0	17.62		0
	12	6	17.61	0-2	0
64QAM	12	13	17.68		0
	25	0	17.58		0
	1	0	18.04	0-2	0
	1	12	18.02		0
	1	24	18.00	0-3	0
	12	0	17.46		0
	12	6	17.43		0
	12	13	17.39	0-3	0
	25	0	17.31		0

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

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 72 of 293

Table 8-47
LTE Band 14 Conducted Powers Ant 3B - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.75	0	0
	1	25	18.73		0
	1	49	18.67		0
	25	0	18.59	0-1	0
	25	12	18.82		0
	25	25	18.68		0
16QAM	50	0	18.74	0-1	0
	1	0	18.74		0
	1	25	18.78		0
	1	49	18.72	0-2	0
	25	0	18.40		0
	25	12	18.58		0
64QAM	25	25	18.50	0-2	0
	50	0	18.57		0
	1	0	18.71	0-2	0
	1	25	18.83		0
	1	49	18.71		0
	25	0	18.40	0-3	0
	25	12	18.59		0
	25	25	18.51		0
	50	0	18.59		0

Table 8-48
LTE Band 14 Conducted Powers Ant 3B - 5 MHz Bandwidth

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.42	0	0
	1	12	18.65		0
	1	24	18.67		0
	12	0	18.72	0-1	0
	12	6	18.81		0
	12	13	18.69		0
16QAM	25	0	18.70	0-1	0
	1	0	18.38		0
	1	12	18.75	0-2	0
	1	24	18.85		0
	12	0	18.48		0
	12	6	18.56	0-2	0
64QAM	12	13	18.47		0
	25	0	18.48		0
	1	0	18.62	0-2	0
	1	12	18.84		0
	1	24	18.85	0-3	0
	12	0	18.40		0
	12	6	18.47		0
	12	13	18.38		0
	25	0	18.38		0

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

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 73 of 293

Table 8-49
LTE Band 14 Conducted Powers Ant 3B - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	16.09	0	0
	1	25	16.08		0
	1	49	16.17		0
	25	0	16.00	0-1	0
	25	12	16.20		0
	25	25	16.05		0
16QAM	50	0	16.16	0	0
	1	0	16.17		0
	1	25	16.08		0
	1	49	16.11	0-1	0
	25	0	15.82		0
	25	12	16.01		0
	25	25	15.87	0-2	0
	50	0	15.98		0
64QAM	1	0	16.05	0-2	0
	1	25	16.03		0
	1	49	16.15		0
	25	0	15.82	0-3	0
	25	12	16.01		0
	25	25	15.88		0
	50	0	15.99		0
					0

Table 8-50
LTE Band 14 Conducted Powers Ant 3B - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	15.95	0	0
	1	12	16.00		0
	1	24	16.08		0
	12	0	15.91	0-1	0
	12	6	15.97		0
	12	13	16.05		0
	25	0	15.93		0
16QAM	1	0	16.00	0-1	0
	1	12	15.95		0
	1	24	16.19		0
	12	0	15.60	0-2	0
	12	6	15.62		0
	12	13	15.70		0
	25	0	15.61		0
64QAM	1	0	15.99	0-2	0
	1	12	16.00		0
	1	24	16.01		0
	12	0	15.75	0-3	0
	12	6	15.87		0
	12	13	15.86		0
	25	0	15.74		0

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

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 74 of 293

8.3.5

LTE Band 26

Table 8-51
LTE Band 26 Conducted Powers Ant 4 - 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	20.80	20.87	20.85	0	0
	1	25	20.70	20.73	20.76		0
	1	49	20.91	20.80	20.65		0
	25	0	20.65	20.82	20.97	0-1	0
	25	12	20.61	20.76	21.04		0
	25	25	20.89	20.80	20.80		0
16QAM	50	0	20.90	20.80	20.78	0-1	0
	1	0	21.10	20.76	21.02		0
	1	25	20.91	20.83	21.08		0
	1	49	20.90	20.97	20.89	0-2	0
	25	0	20.45	20.59	20.66		0
	25	12	20.40	20.57	20.65		0
64QAM	25	25	20.51	20.60	20.48	0-2	0
	50	0	20.48	20.58	20.62		0
	1	0	20.86	20.84	21.07		0
	1	25	20.68	20.82	21.01	0-3	0
	1	49	20.67	20.86	20.92		0
	25	0	20.46	20.62	20.65		0
	25	12	20.46	20.58	20.67	0-3	0
	25	25	20.55	20.62	20.47		0
	50	0	20.52	20.62	20.62		0

Table 8-52
LTE Band 26 Conducted Powers Ant 4 - 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	20.82	20.94	21.02	0	0	
	1	12	20.75	20.92	20.98		0	
	1	24	20.81	20.88	21.05		0	
	12	0	20.88	20.84	20.79	0-1	0	
	12	6	20.83	20.83	20.78		0	
	12	13	20.86	20.82	20.80		0	
16QAM	25	0	20.87	20.84	20.82	0-1	0	
	1	0	21.10	21.04	21.10		0	
	1	12	21.10	21.08	21.10	0-2	0	
	1	24	21.10	21.00	20.99		0	
	12	0	20.84	20.83	20.81		0	
	12	6	20.85	20.79	20.78		0	
12	13	20.83	20.77	20.83	0			
64QAM	25	0	20.80	20.78	20.77	0-2	0	
	1	0	21.10	21.07	20.98		0-2	0
	1	12	21.10	20.93	20.99			0
	1	24	21.10	21.10	21.10	0-3	0	
	12	0	20.80	20.82	20.74		0	
	12	6	20.86	20.82	20.71		0	
12	13	20.80	20.82	20.71	0			
25	0	20.78	20.78	20.75	0			

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 75 of 293

Table 8-53
LTE Band 26 Conducted Powers Ant 4 - 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	20.88	20.90	20.66	0	0
	1	7	20.86	20.96	20.72		0
	1	14	20.81	20.91	20.71		0
	8	0	20.89	20.83	20.77	0-1	0
	8	4	20.82	20.79	20.77		0
	8	7	20.82	20.80	20.79		0
15	0	20.87	20.83	20.84	0		
16QAM	1	0	21.10	21.10	21.04	0-1	0
	1	7	21.10	21.10	21.10		0
	1	14	21.00	21.10	21.05		0
	8	0	20.83	20.77	20.70	0-2	0
	8	4	20.76	20.72	20.71		0
	8	7	20.80	20.77	20.77		0
	15	0	20.80	20.80	20.74		0
64QAM	1	0	20.97	21.10	20.96	0-2	0
	1	7	21.10	21.10	21.10		0
	1	14	21.10	21.10	20.99		0
	8	0	20.70	20.76	20.64	0-3	0
	8	4	20.66	20.75	20.69		0
	8	7	20.69	20.72	20.64		0
	15	0	20.75	20.76	20.66		0

Table 8-54
LTE Band 26 Conducted Powers Ant 4 - 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	20.87	20.88	20.89	0	0
	1	2	20.82	20.86	20.89		0
	1	5	20.80	20.88	20.94		0
	3	0	20.86	20.79	20.77		0
	3	2	20.88	20.75	20.79		0
	3	3	20.89	20.78	20.75		0
	6	0	20.82	20.72	20.72	0-1	0
16QAM	1	0	21.10	21.10	21.10	0-1	0
	1	2	21.10	21.08	21.07		0
	1	5	21.09	21.10	21.10		0
	3	0	21.00	21.05	20.82		0
	3	2	20.96	20.96	20.85		0
	3	3	20.95	20.94	20.84		0
	6	0	20.91	20.80	20.70	0-2	0
64QAM	1	0	21.10	21.10	21.10	0-2	0
	1	2	21.10	21.10	21.10		0
	1	5	21.10	21.10	21.05		0
	3	0	21.04	21.08	20.97		0
	3	2	21.06	21.07	21.04		0
	3	3	21.01	21.05	21.06		0
	6	0	21.01	21.06	21.06	0-3	0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 76 of 293

Table 8-55
LTE Band 26 Conducted Powers Ant 3B - 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	17.88	17.89	17.89	0	0
	1	25	17.79	17.88	17.90		0
	1	49	17.85	17.81	17.86		0
	25	0	17.84	17.89	17.90	0-1	0
	25	12	17.81	17.87	17.89		0
	25	25	17.81	17.82	17.89		0
	50	0	17.82	17.89	17.85		0
16QAM	1	0	17.90	17.89	17.90	0-1	0
	1	25	17.88	17.85	17.90		0
	1	49	17.90	17.82	17.90		0
	25	0	17.66	17.69	17.75	0-2	0
	25	12	17.58	17.69	17.76		0
	25	25	17.62	17.56	17.81		0
	50	0	17.60	17.62	17.68		0
64QAM	1	0	17.87	17.90	17.88	0-2	0
	1	25	17.88	17.90	17.90		0
	1	49	17.90	17.86	17.90		0
	25	0	17.68	17.72	17.75	0-3	0
	25	12	17.61	17.71	17.72		0
	25	25	17.63	17.64	17.78		0
	50	0	17.59	17.67	17.67		0

Table 8-56
LTE Band 26 Conducted Powers Ant 3B - 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	17.90	17.85	17.90	0	0
	1	12	17.90	17.82	17.90		0
	1	24	17.90	17.74	17.90		0
	12	0	17.85	17.80	17.89	0-1	0
	12	6	17.86	17.80	17.90		0
	12	13	17.82	17.80	17.85		0
	25	0	17.88	17.82	17.90		0
16QAM	1	0	17.90	17.86	17.90	0-1	0
	1	12	17.90	17.84	17.90		0
	1	24	17.90	17.90	17.88		0
	12	0	17.61	17.61	17.58	0-2	0
	12	6	17.65	17.61	17.67		0
	12	13	17.59	17.63	17.57		0
	25	0	17.59	17.61	17.70		0
64QAM	1	0	17.90	17.90	17.90	0-2	0
	1	12	17.90	17.68	17.90		0
	1	24	17.90	17.64	17.89		0
	12	0	17.59	17.56	17.67	0-3	0
	12	6	17.62	17.54	17.72		0
	12	13	17.58	17.45	17.64		0
	25	0	17.59	17.56	17.70		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 77 of 293

Table 8-57
LTE Band 26 Conducted Powers Ant 3B - 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	17.90	17.75	17.83	0	0
	1	7	17.90	17.82	17.73		0
	1	14	17.85	17.77	17.69		0
	8	0	17.87	17.76	17.85	0-1	0
	8	4	17.80	17.79	17.75		0
	8	7	17.82	17.80	17.74		0
	15	0	17.85	17.83	17.80		0
16QAM	1	0	17.90	17.79	17.83	0-1	0
	1	7	17.90	17.90	17.80		0
	1	14	17.90	17.72	17.79		0
	8	0	17.55	17.55	17.63	0-2	0
	8	4	17.59	17.57	17.55		0
	8	7	17.59	17.61	17.51		0
	15	0	17.56	17.52	17.60		0
64QAM	1	0	17.84	17.79	17.83	0-2	0
	1	7	17.90	17.85	17.80		0
	1	14	17.90	17.76	17.81		0
	8	0	17.53	17.48	17.60	0-3	0
	8	4	17.52	17.45	17.55		0
	8	7	17.58	17.50	17.53		0
	15	0	17.51	17.50	17.59		0

Table 8-58
LTE Band 26 Conducted Powers Ant 3B - 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	17.90	17.88	17.88	0	0
	1	2	17.90	17.85	17.84		0
	1	5	17.89	17.86	17.89		0
	3	0	17.87	17.83	17.81		0
	3	2	17.86	17.83	17.83		0
	3	3	17.87	17.84	17.82		0
	6	0	17.84	17.79	17.73	0-1	0
16QAM	1	0	17.90	17.82	17.84	0-1	0
	1	2	17.90	17.84	17.74		0
	1	5	17.90	17.86	17.83		0
	3	0	17.82	17.73	17.73		0
	3	2	17.75	17.67	17.76		0
	3	3	17.72	17.72	17.73		0
	6	0	17.67	17.64	17.54	0-2	0
64QAM	1	0	17.83	17.89	17.88	0-2	0
	1	2	17.90	17.88	17.90		0
	1	5	17.84	17.84	17.90		0
	3	0	17.84	17.61	17.64		0
	3	2	17.80	17.62	17.58		0
	3	3	17.77	17.65	17.61		0
	6	0	17.57	17.51	17.44	0-3	0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 78 of 293

8.3.6

LTE Band 5

Table 8-59
LTE Band 5 Conducted Powers Ant 4 - 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	20.63	0	0
	1	25	20.83		0
	1	49	20.70		0
	25	0	20.70	0-1	0
	25	12	20.77		0
	25	25	20.81		0
	50	0	20.80		0
16QAM	1	0	20.81	0-1	0
	1	25	20.89		0
	1	49	20.95		0
	25	0	20.73	0-2	0
	25	12	20.82		0
	25	25	20.83		0
	50	0	20.80		0
64QAM	1	0	20.88	0-2	0
	1	25	20.96		0
	1	49	20.99		0
	25	0	20.74	0-3	0
	25	12	20.78		0
	25	25	20.80		0
	50	0	20.81		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 8-60
LTE Band 5 Conducted Powers Ant 4 - 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	20.65	20.85	20.95	0	0
	1	12	20.70	20.94	20.78		0
	1	24	20.72	20.99	20.75		0
	12	0	20.62	20.78	20.65	0-1	0
	12	6	20.65	20.76	20.56		0
	12	13	20.64	20.72	20.50		0
	25	0	20.65	20.75	20.56		0
16QAM	1	0	20.86	21.06	21.06	0-1	0
	1	12	20.87	21.00	21.03		0
	1	24	21.06	21.04	20.96		0
	12	0	20.57	20.82	20.65	0-2	0
	12	6	20.57	20.76	20.52		0
	12	13	20.66	20.72	20.49		0
	25	0	20.55	20.72	20.55		0
64QAM	1	0	21.01	21.05	21.00	0-2	0
	1	12	20.92	21.08	20.87		0
	1	24	20.97	21.07	20.82		0
	12	0	20.59	20.78	20.63	0-3	0
	12	6	20.61	20.74	20.56		0
	12	13	20.58	20.72	20.51		0
	25	0	20.64	20.75	20.54		0

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 79 of 293

Table 8-61
LTE Band 5 Conducted Powers Ant 4 - 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	20.60	20.86	20.51	0	0
	1	7	20.71	20.89	20.52		0
	1	14	20.68	20.82	20.43		0
	8	0	20.58	20.76	20.56	0-1	0
	8	4	20.59	20.74	20.52		0
	8	7	20.61	20.72	20.50		0
	15	0	20.64	20.74	20.54		0
16QAM	1	0	20.80	20.68	20.91	0-1	0
	1	7	20.88	20.71	20.77		0
	1	14	20.92	21.04	20.49		0
	8	0	20.60	20.73	20.50	0-2	0
	8	4	20.62	20.80	20.50		0
	8	7	20.67	20.70	20.49		0
	15	0	20.55	20.71	20.49		0
64QAM	1	0	20.88	20.98	20.74	0-2	0
	1	7	21.05	21.02	20.56		0
	1	14	21.06	20.98	20.84		0
	8	0	20.52	20.72	20.61	0-3	0
	8	4	20.56	20.73	20.52		0
	8	7	20.63	20.74	20.51		0
	15	0	20.57	20.70	20.54		0

Table 8-62
LTE Band 5 Conducted Powers Ant 4 - 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	20.67	20.91	20.75	0	0
	1	2	20.66	20.89	20.73		0
	1	5	20.71	20.90	20.75		0
	3	0	20.60	20.75	20.59		0
	3	2	20.62	20.76	20.56		0
	3	3	20.62	20.73	20.57		0
	6	0	20.55	20.72	20.50		0
16QAM	1	0	20.79	21.07	20.80	0-1	0
	1	2	20.82	20.97	20.88		0
	1	5	20.85	21.01	20.81		0
	3	0	20.63	20.91	20.73		0
	3	2	20.63	20.90	20.74		0
	3	3	20.68	20.93	20.84		0
	6	0	20.59	20.75	20.53		0
64QAM	1	0	21.07	21.07	20.95	0-2	0
	1	2	21.02	21.07	20.80		0
	1	5	21.06	21.06	20.94		0
	3	0	20.73	21.05	20.68		0
	3	2	20.78	20.92	20.75		0
	3	3	20.76	20.99	20.71		0
	6	0	20.61	20.63	20.47		0-3

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 80 of 293

Table 8-63
LTE Band 5 Conducted Powers Ant 4 - 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	17.77	0	0
	1	25	18.04		0
	1	49	18.01		0
	25	0	17.83	0-1	0
	25	12	17.99		0
	25	25	17.98		0
	50	0	17.97		0
16QAM	1	0	17.77	0-1	0
	1	25	18.05		0
	1	49	18.00		0
	25	0	17.59	0-2	0
	25	12	17.72		0
	25	25	17.73		0
	50	0	17.72		0
64QAM	1	0	17.85	0-2	0
	1	25	18.10		0
	1	49	18.08		0
	25	0	17.59	0-3	0
	25	12	17.73		0
	25	25	17.76		0
	50	0	17.74		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 8-64
LTE Band 5 Conducted Powers Ant 4 - 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	17.82	17.84	17.61	0	0
	1	12	17.82	17.96	17.41		0
	1	24	17.86	17.99	17.49		0
	12	0	17.76	17.81	17.59	0-1	0
	12	6	17.76	17.78	17.53		0
	12	13	17.76	17.78	17.54		0
	25	0	17.77	17.80	17.58		0
16QAM	1	0	17.89	17.77	17.82	0-1	0
	1	12	17.88	17.88	17.56		0
	1	24	17.88	17.95	17.65		0
	12	0	17.51	17.54	17.37	0-2	0
	12	6	17.49	17.49	17.24		0
	12	13	17.52	17.50	17.19		0
	25	0	17.52	17.48	17.26		0
64QAM	1	0	17.99	17.70	18.00	0-2	0
	1	12	18.09	17.92	17.79		0
	1	24	18.01	18.01	17.90		0
	12	0	17.39	17.38	17.19	0-3	0
	12	6	17.37	17.37	17.17		0
	12	13	17.35	17.37	17.18		0
	25	0	17.32	17.35	17.14		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 81 of 293

Table 8-65
LTE Band 5 Conducted Powers Ant 4 - 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	17.69	17.82	17.41	0	0
	1	7	17.71	17.87	17.48		0
	1	14	17.68	17.81	17.47		0
	8	0	17.71	17.73	17.52	0-1	0
	8	4	17.70	17.70	17.51		0
	8	7	17.72	17.71	17.59		0
	15	0	17.72	17.73	17.58		0
16QAM	1	0	17.71	17.89	17.53	0-1	0
	1	7	17.99	17.87	17.57		0
	1	14	17.65	17.98	17.71		0
	8	0	17.45	17.45	17.18	0-2	0
	8	4	17.38	17.44	17.13		0
	8	7	17.48	17.46	17.20		0
	15	0	17.46	17.48	17.21		0
64QAM	1	0	17.98	17.81	17.65	0-2	0
	1	7	18.07	17.80	17.58		0
	1	14	17.99	17.83	17.57		0
	8	0	17.34	17.32	17.20	0-3	0
	8	4	17.40	17.31	17.18		0
	8	7	17.34	17.33	17.15		0
	15	0	17.30	17.30	17.11		0

Table 8-66
LTE Band 5 Conducted Powers Ant 4 - 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	17.76	17.87	17.72	0	0
	1	2	17.74	17.86	17.76		0
	1	5	17.75	17.87	17.78		0
	3	0	17.75	17.78	17.58		0
	3	2	17.79	17.80	17.60		0
	3	3	17.81	17.78	17.62		0
	6	0	17.74	17.73	17.57	0-1	0
16QAM	1	0	17.72	17.77	17.50	0-1	0
	1	2	17.87	17.84	17.71		0
	1	5	17.74	18.01	17.59		0
	3	0	17.57	17.63	17.52		0
	3	2	17.61	17.57	17.41		0
	3	3	17.69	17.62	17.42		0
	6	0	17.55	17.42	17.29	0-2	0
64QAM	1	0	18.01	18.04	17.65	0-2	0
	1	2	18.07	18.08	17.59		0
	1	5	18.06	18.06	17.57		0
	3	0	17.46	17.54	17.28		0
	3	2	17.51	17.56	17.20		0
	3	3	17.50	17.53	17.18		0
	6	0	17.42	17.40	17.20	0-3	0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 82 of 293

Table 8-67
LTE Band 5 Conducted Powers Ant 3B - 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	17.78	0	0
	1	25	17.67		0
	1	49	17.79		0
	25	0	17.72	0-1	0
	25	12	17.68		0
	25	25	17.78		0
16QAM	50	0	17.76	0-1	0
	1	0	17.90		0
	1	25	17.61		0
	1	49	17.87	0-2	0
	25	0	17.65		0
	25	12	17.53		0
64QAM	25	25	17.55	0-2	0
	50	0	17.53		0
	1	0	17.90	0-3	0
	1	25	17.70		0
	1	49	17.81		0
	25	0	17.65		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 8-68
LTE Band 5 Conducted Powers Ant 3B - 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	17.65	17.41	17.51	0	0
	1	12	17.55	17.39	17.46		0
	1	24	17.51	17.56	17.41		0
	12	0	17.43	17.40	17.41	0-1	0
	12	6	17.39	17.40	17.42		0
	12	13	17.33	17.41	17.38		0
16QAM	25	0	17.39	17.43	17.46	0-1	0
	1	0	17.82	17.59	17.68		0
	1	12	17.57	17.62	17.77		0
	1	24	17.60	17.73	17.69	0-2	0
	12	0	17.42	17.42	17.38		0
	12	6	17.33	17.40	17.41		0
64QAM	12	13	17.34	17.41	17.35	0-2	0
	25	0	17.40	17.38	17.41		0
	1	0	17.73	17.57	17.72		0-2
	1	12	17.46	17.64	17.69	0	
	1	24	17.66	17.82	17.63	0-3	
	12	0	17.43	17.41	17.40		0
12	6	17.38	17.70	17.30	0		
12	13	17.34	17.45	17.30	0		
	25	0	17.36	17.44	17.38		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 83 of 293

Table 8-69
LTE Band 5 Conducted Powers Ant 3B - 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	17.48	17.30	17.38	0	0
	1	7	17.52	17.34	17.42		0
	1	14	17.43	17.29	17.32		0
	8	0	17.41	17.40	17.43	0-1	0
	8	4	17.39	17.36	17.42		0
	8	7	17.39	17.37	17.36		0
	15	0	17.40	17.40	17.44		0
16QAM	1	0	17.84	17.65	17.69	0-1	0
	1	7	17.79	17.70	17.57		0
	1	14	17.70	17.69	17.49		0
	8	0	17.46	17.36	17.37	0-2	0
	8	4	17.39	17.37	17.39		0
	8	7	17.39	17.34	17.37		0
	15	0	17.38	17.33	17.36		0
64QAM	1	0	17.82	17.50	17.59	0-2	0
	1	7	17.51	17.69	17.74		0
	1	14	17.61	17.47	17.69		0
	8	0	17.38	17.34	17.43	0-3	0
	8	4	17.35	17.41	17.42		0
	8	7	17.36	17.45	17.36		0
	15	0	17.42	17.41	17.40		0

Table 8-70
LTE Band 5 Conducted Powers Ant 3B - 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	17.56	17.53	17.63	0	0
	1	2	17.55	17.49	17.56		0
	1	5	17.56	17.50	17.59		0
	3	0	17.44	17.36	17.43		0
	3	2	17.44	17.37	17.44		0
	3	3	17.43	17.39	17.43		0
	6	0	17.41	17.34	17.33	0-1	0
16QAM	1	0	17.84	17.66	17.51	0-1	0
	1	2	17.85	17.43	17.67		0
	1	5	17.88	17.43	17.77		0
	3	0	17.64	17.38	17.59		0
	3	2	17.56	17.35	17.55		0
	3	3	17.58	17.41	17.62		0
	6	0	17.49	17.34	17.38	0-2	0
64QAM	1	0	17.75	17.54	17.86	0-2	0
	1	2	17.68	17.70	17.75		0
	1	5	17.71	17.69	17.74		0
	3	0	17.69	17.38	17.56		0
	3	2	17.70	17.45	17.58		0
	3	3	17.59	17.44	17.60		0
	6	0	17.41	17.44	17.31	0-3	0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 84 of 293

Table 8-71
LTE Band 5 Conducted Powers Ant 3B - 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	14.90	0	0
	1	25	14.85		0
	1	49	14.89		0
	25	0	14.75	0-1	0
	25	12	14.73		0
	25	25	14.87		0
	50	0	14.82		0
16QAM	1	0	14.70	0-1	0
	1	25	14.54		0
	1	49	14.65		0
	25	0	14.25	0-2	0
	25	12	14.22		0
	25	25	14.32		0
	50	0	14.32		0
64QAM	1	0	14.80	0-2	0
	1	25	14.70		0
	1	49	14.80		0
	25	0	14.23	0-3	0
	25	12	14.23		0
	25	25	14.35		0
	50	0	14.34		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 8-72
LTE Band 5 Conducted Powers Ant 3B - 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	14.64	14.42	14.51	0	0
	1	12	14.60	14.47	14.45		0
	1	24	14.54	14.54	14.36		0
	12	0	14.47	14.42	14.56	0-1	0
	12	6	14.42	14.40	14.53		0
	12	13	14.42	14.44	14.54		0
	25	0	14.46	14.45	14.56		0
16QAM	1	0	14.58	14.33	14.77	0-1	0
	1	12	14.72	14.37	14.70		0
	1	24	14.49	14.44	14.69		0
	12	0	14.32	14.08	14.26	0-2	0
	12	6	14.22	14.11	14.32		0
	12	13	14.19	14.12	14.27		0
	25	0	14.23	14.04	14.26		0
64QAM	1	0	14.71	14.58	14.60	0-2	0
	1	12	14.84	14.27	14.68		0
	1	24	14.60	14.46	14.70		0
	12	0	14.33	13.98	14.31	0-3	0
	12	6	14.34	14.02	14.41		0
	12	13	14.34	14.02	14.39		0
	25	0	14.33	13.95	14.40		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 85 of 293

Table 8-73
LTE Band 5 Conducted Powers Ant 3B - 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	14.78	14.57	14.72	0	0
	1	7	14.86	14.62	14.76		0
	1	14	14.77	14.60	14.62		0
	8	0	14.71	14.63	14.80	0-1	0
	8	4	14.72	14.64	14.77		0
	8	7	14.69	14.63	14.73		0
	15	0	14.76	14.64	14.84		0
16QAM	1	0	14.56	14.15	14.65	0-1	0
	1	7	14.62	14.19	14.62		0
	1	14	14.57	14.16	14.42		0
	8	0	14.17	13.99	14.16	0-2	0
	8	4	14.22	14.01	14.14		0
	8	7	14.21	14.03	14.12		0
	15	0	14.26	13.97	14.24		0
64QAM	1	0	14.61	14.45	14.67	0-2	0
	1	7	14.80	14.26	14.41		0
	1	14	14.82	14.23	14.40		0
	8	0	14.32	13.98	14.41	0-3	0
	8	4	14.39	14.00	14.38		0
	8	7	14.39	13.93	14.40		0
	15	0	14.36	13.98	14.42		0

Table 8-74
LTE Band 5 Conducted Powers Ant 3B - 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	14.85	14.66	14.90	0	0
	1	2	14.83	14.64	14.82		0
	1	5	14.90	14.65	14.84		0
	3	0	14.77	14.69	14.66		0
	3	2	14.77	14.67	14.64		0
	3	3	14.75	14.67	14.67		0
	6	0	14.71	14.63	14.60		0
16QAM	1	0	14.58	14.34	14.55	0-1	0
	1	2	14.47	14.40	14.59		0
	1	5	14.68	14.58	14.52		0
	3	0	14.35	14.24	14.31		0
	3	2	14.35	14.24	14.26		0
	3	3	14.34	14.25	14.27		0
	6	0	14.24	14.21	14.20		0
64QAM	1	0	14.80	14.13	14.80	0-2	0
	1	2	14.81	14.31	14.71		0
	1	5	14.82	14.32	14.70		0
	3	0	14.52	14.17	14.49		0
	3	2	14.51	14.16	14.50		0
	3	3	14.54	14.12	14.48		0
	6	0	14.34	13.97	14.30		0-3

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 86 of 293

8.3.7

LTE Band 4

Table 8-75
LTE Band 4 Conducted Powers Ant 4 - 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	13.30	0	0
	1	50	13.26		0
	1	99	13.29		0
	50	0	13.36	0-1	0
	50	25	13.34		0
	50	50	13.33		0
	100	0	13.29		0
16QAM	1	0	13.78	0-1	0
	1	50	13.66		0
	1	99	13.58		0
	50	0	13.52	0-2	0
	50	25	13.48		0
	50	50	13.41		0
	100	0	13.44		0
64QAM	1	0	13.60	0-2	0
	1	50	13.48		0
	1	99	13.35		0
	50	0	13.49	0-3	0
	50	25	13.45		0
	50	50	13.36		0
	100	0	13.43		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 8-76
LTE Band 4 Conducted Powers Ant 4 - 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	13.33	13.10	13.44	0	0
	1	36	13.47	13.27	13.66		0
	1	74	13.13	13.29	13.58		0
	36	0	13.50	13.38	13.60	0-1	0
	36	18	13.53	13.43	13.66		0
	36	37	13.39	13.41	13.63		0
	75	0	13.42	13.35	13.53		0
16QAM	1	0	13.19	13.14	13.28	0-1	0
	1	36	13.38	13.20	13.47		0
	1	74	13.15	13.13	13.24		0
	36	0	13.19	13.10	13.30	0-2	0
	36	18	13.24	13.12	13.35		0
	36	37	13.12	13.07	13.30		0
	75	0	13.18	13.03	13.28		0
64QAM	1	0	13.27	13.21	13.16	0-2	0
	1	36	13.26	13.16	13.27		0
	1	74	13.25	13.15	13.32		0
	36	0	13.20	13.10	13.32	0-3	0
	36	18	13.26	13.10	13.40		0
	36	37	13.14	13.07	13.32		0
	75	0	13.21	13.07	13.24		0

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 87 of 293

Table 8-77
LTE Band 4 Conducted Powers Ant 4 - 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	13.51	13.32	13.47	0	0
	1	25	13.54	13.32	13.48		0
	1	49	13.51	13.40	13.50		0
	25	0	13.45	13.38	13.61	0-1	0
	25	12	13.49	13.37	13.60		0
	25	25	13.46	13.40	13.61		0
	50	0	13.48	13.36	13.57		0
16QAM	1	0	13.43	13.11	13.38	0-1	0
	1	25	13.36	13.02	13.30		0
	1	49	13.47	13.28	13.56		0
	25	0	13.17	13.11	13.35	0-2	0
	25	12	13.22	13.09	13.35		0
	25	25	13.23	13.11	13.36		0
	50	0	13.20	13.08	13.36		0
64QAM	1	0	13.32	13.20	13.49	0-2	0
	1	25	13.37	13.18	13.37		0
	1	49	13.25	13.41	13.46		0
	25	0	13.20	13.14	13.34	0-3	0
	25	12	13.25	13.11	13.34		0
	25	25	13.24	13.15	13.35		0
	50	0	13.21	13.08	13.34		0

Table 8-78
LTE Band 4 Conducted Powers Ant 4 - 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	13.33	13.33	13.61	0	0
	1	12	13.39	13.27	13.59		0
	1	24	13.48	13.29	13.59		0
	12	0	13.24	13.26	13.47	0-1	0
	12	6	13.27	13.20	13.49		0
	12	13	13.33	13.27	13.49		0
	25	0	13.32	13.28	13.50		0
16QAM	1	0	13.33	13.05	13.16	0-1	0
	1	12	13.42	12.99	13.16		0
	1	24	13.47	12.96	13.42		0
	12	0	13.17	12.97	12.98	0-2	0
	12	6	13.12	12.92	13.02		0
	12	13	13.19	12.98	13.02		0
	25	0	13.09	12.91	12.97		0
64QAM	1	0	13.40	13.06	13.18	0-2	0
	1	12	13.58	13.03	13.25		0
	1	24	13.55	13.23	13.37		0
	12	0	13.13	13.01	12.98	0-3	0
	12	6	13.12	12.95	13.02		0
	12	13	13.23	13.03	12.98		0
	25	0	13.05	13.00	12.99		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 88 of 293

Table 8-79
LTE Band 4 Conducted Powers Ant 4 - 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	13.28	13.20	13.33	0	0
	1	7	13.41	13.21	13.28		0
	1	14	13.34	13.15	13.21		0
	8	0	13.21	13.16	13.37	0-1	0
	8	4	13.24	13.15	13.36		0
	8	7	13.24	13.20	13.34		0
16QAM	15	0	13.25	13.16	13.33	0-1	0
	1	0	13.51	13.28	13.60		0
	1	7	13.69	13.28	13.53		0
	1	14	13.50	13.20	13.28	0-2	0
	8	0	13.23	13.07	13.30		0
	8	4	13.24	13.11	13.36		0
64QAM	8	7	13.25	13.16	13.32	0-2	0
	15	0	13.23	13.05	13.28		0
	1	0	13.46	13.32	13.52		0-2
	1	7	13.64	13.27	13.32	0	
	1	14	13.59	13.39	13.45	0	
	64QAM	8	0	13.20	13.04	13.36	0-3
8		4	13.20	13.07	13.32	0	
8		7	13.23	13.04	13.33	0	
15		0	13.18	12.95	13.32	0	

Table 8-80
LTE Band 4 Conducted Powers Ant 4 - 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	13.17	13.15	13.50	0	0
	1	2	13.20	13.13	13.48		0
	1	5	13.25	13.13	13.51		0
	3	0	13.07	13.15	13.36		0
	3	2	13.11	13.13	13.31		0
	3	3	13.11	13.13	13.32	0	
	6	0	13.07	13.08	13.26	0-1	0
16QAM	1	0	13.33	13.30	13.65	0-1	0
	1	2	13.63	13.29	13.73		0
	1	5	13.51	13.24	13.60		0
	3	0	13.21	13.27	13.38		0
	3	2	13.26	13.31	13.47		0
	3	3	13.28	13.28	13.49	0	
	6	0	13.17	13.13	13.42	0-2	0
64QAM	1	0	13.46	13.44	13.65	0-2	0
	1	2	13.51	13.35	13.76		0
	1	5	13.47	13.40	13.64		0
	3	0	13.20	13.27	13.56		0
	3	2	13.30	13.25	13.52		0
	3	3	13.26	13.29	13.45	0	
	6	0	13.08	13.03	13.37	0-3	0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 89 of 293

Table 8-81
LTE Band 4 Conducted Powers Ant 4 - 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	10.88	0	0
	1	50	10.90		0
	1	99	10.84		0
	50	0	10.86	0-1	0
	50	25	10.87		0
	50	50	10.86		0
	100	0	10.83		0
16QAM	1	0	10.75	0-1	0
	1	50	10.78		0
	1	99	10.73		0
	50	0	10.45	0-2	0
	50	25	10.51		0
	50	50	10.48		0
	100	0	10.47		0
64QAM	1	0	10.47	0-2	0
	1	50	10.61		0
	1	99	10.41		0
	50	0	10.29	0-3	0
	50	25	10.30		0
	50	50	10.25		0
	100	0	10.44		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 8-82
LTE Band 4 Conducted Powers Ant 4 - 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	10.96	10.64	10.79	0	0
	1	36	10.90	10.56	10.76		0
	1	74	10.92	10.54	10.78		0
	36	0	10.78	10.38	10.75	0-1	0
	36	18	10.76	10.36	10.72		0
	36	37	10.75	10.37	10.78		0
	75	0	10.66	10.36	10.68		0
16QAM	1	0	10.62	10.29	9.88	0-1	0
	1	36	10.70	10.15	10.15		0
	1	74	10.36	9.94	10.35		0
	36	0	10.53	10.21	10.17	0-2	0
	36	18	10.47	10.09	10.27		0
	36	37	10.42	10.03	10.33		0
	75	0	10.40	10.09	10.26		0
64QAM	1	0	10.85	10.68	9.93	0-2	0
	1	36	10.73	10.31	10.31		0
	1	74	10.44	10.21	10.34		0
	36	0	10.52	10.22	10.17	0-3	0
	36	18	10.47	10.09	10.28		0
	36	37	10.36	10.04	10.34		0
	75	0	10.37	10.20	10.24		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 90 of 293

Table 8-83
LTE Band 4 Conducted Powers Ant 4 - 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	11.13	10.75	10.40	0	0
	1	25	11.08	10.48	10.67		0
	1	49	11.03	10.47	10.73		0
	25	0	11.00	10.60	10.67	0-1	0
	25	12	10.91	10.47	10.77		0
	25	25	10.87	10.47	10.88		0
	50	0	10.90	10.49	10.70		0
16QAM	1	0	10.80	10.37	10.19	0-1	0
	1	25	10.79	10.18	10.31		0
	1	49	10.69	9.91	10.36		0
	25	0	10.53	10.15	10.26	0-2	0
	25	12	10.46	10.04	10.27		0
	25	25	10.37	10.00	10.26		0
	50	0	10.42	10.07	10.27		0
64QAM	1	0	10.59	10.58	10.28	0-2	0
	1	25	10.57	10.12	10.12		0
	1	49	10.64	10.19	10.37		0
	25	0	10.53	10.16	10.22	0-3	0
	25	12	10.37	10.09	10.22		0
	25	25	10.35	10.07	10.27		0
	50	0	10.40	10.04	10.25		0

Table 8-84
LTE Band 4 Conducted Powers Ant 4 - 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	10.96	10.62	10.93	0	0
	1	12	10.97	10.48	10.92		0
	1	24	10.95	10.54	10.92		0
	12	0	10.82	10.49	10.75	0-1	0
	12	6	10.86	10.42	10.77		0
	12	13	10.80	10.51	10.76		0
	25	0	10.84	10.46	10.76		0
16QAM	1	0	10.58	10.50	10.57	0-1	0
	1	12	10.70	10.29	10.60		0
	1	24	10.59	10.50	10.53		0
	12	0	10.29	10.19	10.27	0-2	0
	12	6	10.26	10.13	10.28		0
	12	13	10.26	10.20	10.26		0
	25	0	10.25	10.13	10.24		0
64QAM	1	0	10.62	10.74	10.58	0-2	0
	1	12	10.80	10.33	10.52		0
	1	24	10.73	10.39	10.50		0
	12	0	10.31	10.27	10.26	0-3	0
	12	6	10.27	10.14	10.27		0
	12	13	10.27	10.10	10.26		0
	25	0	10.30	10.05	10.22		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 91 of 293

Table 8-85
LTE Band 4 Conducted Powers Ant 4 - 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	10.82	10.66	10.61	0	0
	1	7	10.86	10.60	10.60		0
	1	14	10.85	10.63	10.56		0
	8	0	10.72	10.55	10.71	0-1	0
	8	4	10.71	10.50	10.66		0
	8	7	10.74	10.54	10.67		0
16QAM	15	0	10.70	10.51	10.70		
	1	0	10.54	10.30	10.27	0-1	0
	1	7	10.53	10.24	10.30		0
	1	14	10.57	10.12	10.25		0-2
	8	0	10.21	10.07	10.20	0	
	8	4	10.20	10.02	10.17	0	
64QAM	8	7	10.21	10.04	10.15	0-2	0
	15	0	10.12	9.91	10.11		0
	1	0	10.48	10.28	10.19	0-2	0
	1	7	10.34	10.46	10.42		0
	1	14	10.44	10.35	10.32		0
	8	0	10.13	9.94	10.20	0-3	0
	8	4	10.17	9.86	10.16		0
	8	7	10.19	9.93	10.15		0
	15	0	10.12	9.91	10.19		0

Table 8-86
LTE Band 4 Conducted Powers Ant 4 - 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	10.73	10.69	10.83	0	0
	1	2	10.70	10.56	10.79		0
	1	5	10.70	10.57	10.83		0
	3	0	10.66	10.47	10.65		0
	3	2	10.65	10.40	10.66		0
	3	3	10.64	10.39	10.68	0	
	6	0	10.62	10.33	10.63	0-1	0
16QAM	1	0	10.62	10.32	10.31	0-1	0
	1	2	10.54	10.19	10.36		0
	1	5	10.62	10.22	10.43		0
	3	0	10.34	10.11	10.37		0
	3	2	10.34	10.06	10.34		0
	3	3	10.33	10.13	10.34	0	
	6	0	10.29	10.04	10.25	0-2	0
64QAM	1	0	10.47	10.57	10.63	0-2	0
	1	2	10.61	10.35	10.52		0
	1	5	10.56	10.36	10.46		0
	3	0	10.36	10.28	10.34		0
	3	2	10.33	10.18	10.37		0
	3	3	10.54	10.06	10.38	0	
	6	0	10.24	9.99	10.10	0-3	0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 92 of 293

Table 8-87
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	15.28	0	0
	1	50	15.26		0
	1	99	15.30		0
	50	0	15.28	0-1	0
	50	25	15.27		0
	50	50	15.29		0
	100	0	15.28		0
16QAM	1	0	15.18	0-1	0
	1	50	15.22		0
	1	99	15.27		0
	50	0	15.12	0-2	0
	50	25	15.11		0
	50	50	15.12		0
	100	0	15.02		0
64QAM	1	0	15.27	0-2	0
	1	50	15.29		0
	1	99	15.30		0
	50	0	15.11	0-3	0
	50	25	15.11		0
	50	50	15.10		0
	100	0	15.09		0

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

Table 8-88
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	15.22	15.07	15.08	0	0
	1	36	15.14	15.11	15.07		0
	1	74	15.19	15.13	15.01		0
	36	0	15.08	15.19	15.15	0-1	0
	36	18	15.06	15.20	15.17		0
	36	37	15.05	15.20	15.20		0
	75	0	15.05	15.18	15.16		0
16QAM	1	0	15.20	15.18	14.99	0-1	0
	1	36	15.22	15.09	15.23		0
	1	74	15.20	15.01	15.21		0
	36	0	15.18	15.11	15.24	0-2	0
	36	18	15.21	15.07	15.19		0
	36	37	15.22	15.10	15.19		0
	75	0	15.19	15.09	15.21		0
64QAM	1	0	14.86	15.23	15.16	0-2	0
	1	36	15.14	15.25	15.14		0
	1	74	15.19	15.14	14.91		0
	36	0	14.87	15.07	15.13	0-3	0
	36	18	15.00	15.12	15.09		0
	36	37	15.07	15.07	14.95		0
	75	0	14.98	15.05	14.98		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 93 of 293

Table 8-89
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	15.11	15.15	15.16	0	0
	1	25	15.00	15.08	15.13		0
	1	49	15.03	15.12	15.06		0
	25	0	15.14	15.16	15.19	0-1	0
	25	12	15.09	15.16	15.22		0
	25	25	15.10	15.18	15.15		0
	50	0	15.11	15.17	15.20		0
16QAM	1	0	14.96	15.11	15.17	0-1	0
	1	25	14.91	15.02	15.27		0
	1	49	15.04	15.14	15.04		0
	25	0	15.08	14.95	14.97	0-2	0
	25	12	14.99	14.97	14.99		0
	25	25	14.97	15.00	14.97		0
	50	0	14.95	14.98	14.95		0
64QAM	1	0	15.25	15.23	15.13	0-2	0
	1	25	15.09	15.23	15.08		0
	1	49	15.12	15.21	14.99		0
	25	0	14.99	15.07	15.03	0-3	0
	25	12	14.91	15.07	14.94		0
	25	25	14.98	15.09	14.83		0
	50	0	14.93	15.07	14.91		0

Table 8-90
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	15.08	15.18	15.06	0	0
	1	12	15.09	15.15	14.89		0
	1	24	15.03	15.17	14.92		0
	12	0	15.03	15.02	15.08	0-1	0
	12	6	15.01	15.00	14.97		0
	12	13	15.02	15.02	14.99		0
16QAM	25	0	15.01	15.04	14.99	0	
	1	0	15.13	15.17	14.94	0-1	0
	1	12	15.06	15.17	15.07		0
	1	24	14.92	15.14	15.09		0
	12	0	14.95	14.89	15.04	0-2	0
	12	6	14.97	14.92	15.03		0
12	13	14.95	14.91	15.04	0		
64QAM	25	0	14.82	14.79	14.79	0	
	1	0	15.12	15.24	15.20	0-2	0
	1	12	15.19	14.95	15.13		0
	1	24	14.92	15.16	15.12		0
	12	0	14.78	14.97	14.98	0-3	0
	12	6	14.78	14.96	14.93		0
12	13	14.66	14.95	14.92	0		
	25	0	14.80	14.97	14.91	0	

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 94 of 293

Table 8-91
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	14.87	15.06	14.90	0	0
	1	7	14.92	15.12	14.95		0
	1	14	14.87	15.06	14.87		0
	8	0	14.90	14.98	14.92	0-1	0
	8	4	14.90	14.93	14.92		0
	8	7	14.86	14.94	14.91		0
16QAM	15	0	14.87	14.95	14.93	0-1	0
	1	0	14.94	14.79	15.06		0
	1	7	15.00	15.05	15.02		0
	1	14	14.74	15.09	15.06	0-2	0
	8	0	14.83	15.04	14.93		0
	8	4	14.85	15.03	14.91		0
64QAM	8	7	14.79	14.99	14.95	0-2	0
	15	0	14.57	14.66	14.70		0
	1	0	14.97	15.13	14.75		0-2
	1	7	15.06	15.20	14.91	0	
	1	14	14.88	15.20	14.79	0	
	64QAM	8	0	14.66	14.91	14.52	0-3
8		4	14.68	14.78	14.58	0	
8		7	14.66	14.90	14.50	0	
15		0	14.64	14.80	14.50		0

Table 8-92
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	14.94	15.06	15.18	0	0
	1	2	14.91	15.06	15.17		0
	1	5	14.96	15.09	15.20		0
	3	0	14.93	15.00	15.02		0
	3	2	14.94	14.97	14.99		0
	3	3	14.95	15.00	15.03	0	
	6	0	14.92	14.94	14.98	0-1	0
16QAM	1	0	14.95	14.91	14.96	0-1	0
	1	2	14.96	15.08	14.96		0
	1	5	14.99	15.14	15.05		0
	3	0	14.89	14.99	14.89		0
	3	2	14.93	15.01	14.93		0
	3	3	14.88	14.92	14.79	0	
	6	0	14.76	14.77	14.74	0-2	0
64QAM	1	0	15.01	15.01	14.88	0-2	0
	1	2	15.02	15.02	14.92		0
	1	5	14.96	14.98	14.87		0
	3	0	14.82	14.73	14.75		0
	3	2	14.85	14.72	14.71		0
	3	3	14.88	14.71	14.74	0	
	6	0	14.62	14.66	14.64	0-3	0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 95 of 293

Table 8-93
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	12.05	0	0
	1	50	12.15		0
	1	99	12.14		0
	50	0	12.26	0-1	0
	50	25	12.28		0
	50	50	12.20		0
	100	0	12.14		0
16QAM	1	0	12.17	0-1	0
	1	50	12.30		0
	1	99	12.28		0
	50	0	11.85	0-2	0
	50	25	11.88		0
	50	50	11.86		0
	100	0	11.85		0
64QAM	1	0	12.16	0-2	0
	1	50	12.19		0
	1	99	12.23		0
	50	0	11.83	0-3	0
	50	25	11.90		0
	50	50	11.85		0
	100	0	11.84		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 8-94
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	12.25	12.04	12.16	0	0
	1	36	12.19	12.17	12.17		0
	1	74	12.12	12.05	11.96		0
	36	0	12.12	12.22	12.30	0-1	0
	36	18	12.06	12.25	12.22		0
	36	37	12.08	12.12	12.21		0
	75	0	12.01	12.19	12.17		0
16QAM	1	0	12.30	12.02	12.24	0-1	0
	1	36	12.08	12.22	12.12		0
	1	74	12.23	12.12	11.79		0
	36	0	12.04	12.03	12.08	0-2	0
	36	18	11.99	12.05	11.95		0
	36	37	11.98	11.96	11.95		0
	75	0	11.97	12.02	11.93		0
64QAM	1	0	12.23	11.92	12.17	0-2	0
	1	36	12.15	12.21	12.14		0
	1	74	12.14	12.30	11.96		0
	36	0	12.06	12.04	12.20	0-3	0
	36	18	12.02	12.14	12.09		0
	36	37	12.04	12.11	12.05		0
	75	0	11.98	12.07	12.00		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 96 of 293

Table 8-95
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	12.18	12.13	12.24	0	0
	1	25	12.00	12.16	12.16		0
	1	49	12.03	12.11	12.03		0
	25	0	12.25	12.23	12.21	0-1	0
	25	12	12.14	12.25	12.20		0
	25	25	12.10	12.20	12.10		0
16QAM	50	0	12.18	12.25	12.20		0
	1	0	12.24	12.18	12.27	0-1	0
	1	25	12.17	12.30	12.12		0
	1	49	12.18	12.17	12.20		0
	25	0	12.03	12.10	12.03	0-2	0
	25	12	11.94	12.13	12.06		0
25	25	11.87	12.07	11.94	0		
64QAM	50	0	11.96	12.10	12.02		0
	1	0	12.30	12.22	12.08	0-2	0
	1	25	12.16	12.13	12.01		0
	1	49	12.23	12.29	11.86		0
	25	0	12.09	12.05	11.95	0-3	0
	25	12	12.00	12.06	11.89		0
25	25	11.97	12.01	11.83	0		
	50	0	12.05	12.09	11.93		0

Table 8-96
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	12.19	12.11	12.04	0	0
	1	12	12.17	12.09	11.85		0
	1	24	12.17	12.05	11.93		0
	12	0	12.10	12.06	12.07	0-1	0
	12	6	12.07	12.09	11.94		0
	12	13	12.04	12.06	11.98		0
	25	0	12.05	12.10	11.96		0
16QAM	1	0	12.30	12.13	11.95	0-1	0
	1	12	12.06	12.12	12.05		0
	1	24	11.97	12.06	12.06		0
	12	0	11.88	11.79	11.78	0-2	0
	12	6	11.89	11.87	11.72		0
	12	13	11.85	11.82	11.70		0
	25	0	11.83	11.87	11.72		0
64QAM	1	0	12.08	11.94	12.27	0-2	0
	1	12	11.83	12.02	11.97		0
	1	24	12.12	11.99	12.12		0
	12	0	11.98	11.83	11.79	0-3	0
	12	6	11.94	11.75	11.73		0
	12	13	11.88	11.75	11.75		0
	25	0	11.89	11.78	11.68		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 97 of 293

Table 8-97
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	12.06	12.01	11.69	0	0
	1	7	12.09	12.07	11.76		0
	1	14	12.04	11.98	11.75		0
	8	0	11.99	12.09	11.80	0-1	0
	8	4	11.96	12.09	11.78		0
	8	7	11.98	12.02	11.81		0
	15	0	11.98	12.09	11.81		0
16QAM	1	0	12.30	11.89	11.90	0-1	0
	1	7	12.19	11.96	11.90		0
	1	14	12.09	12.04	11.90		0
	8	0	11.82	11.74	11.57	0-2	0
	8	4	11.81	11.73	11.59		0
	8	7	11.82	11.71	11.61		0
	15	0	11.77	11.69	11.58		0
64QAM	1	0	12.01	12.08	11.82	0-2	0
	1	7	12.05	12.00	11.91		0
	1	14	11.93	12.03	11.97		0
	8	0	11.72	11.78	11.62	0-3	0
	8	4	11.70	11.79	11.62		0
	8	7	11.71	11.71	11.61		0
	15	0	11.68	11.71	11.60		0

Table 8-98
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	12.16	11.98	11.99	0	0
	1	2	12.15	11.98	11.97		0
	1	5	12.15	12.01	11.99		0
	3	0	12.12	12.02	11.84		0
	3	2	12.12	12.02	11.85		0
	3	3	12.12	12.05	11.89		0
	6	0	12.09	11.99	11.82	0-1	0
16QAM	1	0	12.22	12.01	11.82	0-1	0
	1	2	12.07	11.82	12.03		0
	1	5	12.08	11.93	11.98		0
	3	0	11.81	11.72	11.78		0
	3	2	11.86	11.82	11.73		0
	3	3	11.79	11.80	11.70		0
	6	0	11.80	11.70	11.60	0-2	0
64QAM	1	0	12.04	11.74	11.80	0-2	0
	1	2	12.04	11.92	11.80		0
	1	5	12.06	12.01	11.84		0
	3	0	11.96	11.85	11.78		0
	3	2	11.86	11.84	11.75		0
	3	3	11.91	11.90	11.73		0
	6	0	11.75	11.74	11.56	0-3	0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 98 of 293

Table 8-99
LTE Band 4 Conducted Powers Ant 1A - 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	14.33	0	0
	1	50	14.55		0
	1	99	14.23		0
	50	0	14.60	0-1	0
	50	25	14.59		0
	50	50	14.53		0
	100	0	14.54		0
16QAM	1	0	14.37	0-1	0
	1	50	14.60		0
	1	99	14.17		0
	50	0	14.51	0-2	0
	50	25	14.53		0
	50	50	14.39		0
	100	0	14.45		0
64QAM	1	0	14.30	0-2	0
	1	50	14.60		0
	1	99	14.29		0
	50	0	14.20	0-3	0
	50	25	14.25		0
	50	50	14.10		0
	100	0	14.16		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 8-100
LTE Band 4 Conducted Powers Ant 1A - 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	14.10	14.43	14.15	0	0
	1	36	14.27	14.58	14.31		0
	1	74	14.14	14.30	14.11		0
	36	0	14.35	14.52	14.24	0-1	0
	36	18	14.38	14.52	14.42		0
	36	37	14.31	14.40	14.34		0
	75	0	14.36	14.50	14.37		0
16QAM	1	0	14.51	14.48	14.49	0-1	0
	1	36	14.60	14.60	14.60		0
	1	74	14.33	14.37	14.53		0
	36	0	14.39	14.48	14.26	0-2	0
	36	18	14.40	14.50	14.49		0
	36	37	14.30	14.34	14.39		0
	75	0	14.30	14.41	14.45		0
64QAM	1	0	14.24	14.47	14.46	0-2	0
	1	36	14.39	14.60	14.54		0
	1	74	14.27	14.52	14.40		0
	36	0	14.42	14.52	14.33	0-3	0
	36	18	14.42	14.55	14.48		0
	36	37	14.34	14.44	14.39		0
	75	0	14.38	14.46	14.38		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 99 of 293

Table 8-101
LTE Band 4 Conducted Powers Ant 1A - 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	14.15	14.32	14.17	0	0
	1	25	14.25	14.30	14.24		0
	1	49	14.27	14.25	14.12		0
	25	0	14.26	14.42	14.34	0-1	0
	25	12	14.34	14.41	14.32		0
	25	25	14.35	14.35	14.23		0
	50	0	14.35	14.43	14.31		0
16QAM	1	0	14.60	14.60	14.60	0-1	0
	1	25	14.53	14.51	14.44		0
	1	49	14.57	14.60	14.60		0
	25	0	14.34	14.55	14.42	0-2	0
	25	12	14.40	14.54	14.44		0
	25	25	14.41	14.45	14.30		0
	50	0	14.43	14.54	14.42		0
64QAM	1	0	14.57	14.55	14.47	0-2	0
	1	25	14.60	14.56	14.48		0
	1	49	14.60	14.54	14.38		0
	25	0	14.44	14.48	14.46	0-3	0
	25	12	14.46	14.47	14.44		0
	25	25	14.46	14.39	14.33		0
	50	0	14.45	14.45	14.41		0

Table 8-102
LTE Band 4 Conducted Powers Ant 1A - 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	14.17	14.59	14.19	0	0
	1	12	14.20	14.56	14.15		0
	1	24	14.32	14.53	14.16		0
	12	0	14.14	14.48	14.26	0-1	0
	12	6	14.16	14.47	14.18		0
	12	13	14.27	14.39	14.16		0
	25	0	14.17	14.47	14.18		0
16QAM	1	0	14.48	14.60	14.60	0-1	0
	1	12	14.44	14.57	14.37		0
	1	24	14.52	14.60	14.42		0
	12	0	14.15	14.39	14.29	0-2	0
	12	6	14.20	14.38	14.19		0
	12	13	14.31	14.28	14.13		0
	25	0	14.15	14.32	14.13		0
64QAM	1	0	14.46	14.36	14.52	0-2	0
	1	12	14.70	14.36	14.49		0
	1	24	14.61	14.46	14.59		0
	12	0	14.21	14.39	14.24	0-3	0
	12	6	14.18	14.35	14.13		0
	12	13	14.33	14.29	14.13		0
	25	0	14.22	14.30	14.15		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 100 of 293

Table 8-103
LTE Band 4 Conducted Powers Ant 1A - 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	14.19	14.53	14.15	0	0
	1	7	14.21	14.58	14.19		0
	1	14	14.25	14.46	14.13		0
	8	0	14.23	14.46	14.24	0-1	0
	8	4	14.21	14.45	14.26		0
	8	7	14.24	14.38	14.25		0
	15	0	14.26	14.48	14.27		0
16QAM	1	0	14.56	14.66	14.53	0-1	0
	1	7	14.61	14.77	14.67		0
	1	14	14.40	14.40	14.64		0
	8	0	14.14	14.39	14.26	0-2	0
	8	4	14.15	14.35	14.23		0
	8	7	14.17	14.33	14.18		0
	15	0	14.13	14.38	14.20		0
64QAM	1	0	14.39	14.72	14.45	0-2	0
	1	7	14.60	14.76	14.57		0
	1	14	14.43	14.65	14.47		0
	8	0	14.14	14.48	14.28	0-3	0
	8	4	14.13	14.42	14.30		0
	8	7	14.18	14.42	14.29		0
	15	0	14.10	14.40	14.28		0

Table 8-104
LTE Band 4 Conducted Powers Ant 1A - 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	14.20	14.59	14.42	0	0
	1	2	14.21	14.56	14.39		0
	1	5	14.20	14.59	14.43		0
	3	0	14.20	14.48	14.29		0
	3	2	14.21	14.47	14.30		0
	3	3	14.19	14.49	14.27		0
	6	0	14.16	14.45	14.25	0-1	0
16QAM	1	0	14.21	14.60	14.60	0-1	0
	1	2	14.18	14.58	14.56		0
	1	5	14.23	14.61	14.62		0
	3	0	14.20	14.48	14.30		0
	3	2	14.21	14.50	14.25		0
	3	3	14.18	14.48	14.32		0
	6	0	14.17	14.45	14.20	0-2	0
64QAM	1	0	14.49	14.67	14.56	0-2	0
	1	2	14.43	14.74	14.50		0
	1	5	14.41	14.74	14.58		0
	3	0	14.30	14.45	14.40		0
	3	2	14.29	14.46	14.37		0
	3	3	14.30	14.46	14.39		0
	6	0	14.24	14.38	14.22	0-3	0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 101 of 293

Table 8-105
LTE Band 4 Conducted Powers Ant 1A - 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	11.70	0	0
	1	50	11.47		0
	1	99	11.34		0
	50	0	11.54	0-1	0
	50	25	11.67		0
	50	50	11.50		0
	100	0	11.65		0
16QAM	1	0	11.47	0-1	0
	1	50	11.70		0
	1	99	11.63		0
	50	0	11.20	0-2	0
	50	25	11.27		0
	50	50	11.20		0
	100	0	11.21		0
64QAM	1	0	11.46	0-2	0
	1	50	11.74		0
	1	99	11.56		0
	50	0	11.15	0-3	0
	50	25	11.19		0
	50	50	11.03		0
	100	0	11.08		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 8-106
LTE Band 4 Conducted Powers Ant 1A - 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	11.77	11.68	0	0
	1	36	11.18	11.67	11.56		0
	1	74	11.22	11.62	11.44		0
	36	0	11.21	11.65	11.58	0-1	0
	36	18	11.30	11.73	11.57		0
	36	37	11.34	11.70	11.44		0
	75	0	11.30	11.69	11.50		0
16QAM	1	0	11.53	11.68	11.58	0-1	0
	1	36	11.50	11.71	11.62		0
	1	74	11.59	11.69	11.54		0
	36	0	11.37	11.65	11.63	0-2	0
	36	18	11.44	11.69	11.61		0
	36	37	11.47	11.59	11.55		0
	75	0	11.41	11.60	11.57		0
64QAM	1	0	11.14	11.49	11.32	0-2	0
	1	36	11.24	11.60	11.42		0
	1	74	11.29	11.56	11.26		0
	36	0	11.03	11.37	11.34	0-3	0
	36	18	11.09	11.41	11.35		0
	36	37	11.12	11.38	11.24		0
	75	0	11.10	11.38	11.21		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 102 of 293

Table 8-107
LTE Band 4 Conducted Powers Ant 1A - 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	11.65	11.52	0	0
	1	25	11.38	11.69	11.39		0
	1	49	11.44	11.61	11.40		0
	25	0	11.31	11.59	11.57	0-1	0
	25	12	11.26	11.60	11.51		0
	25	25	11.32	11.55	11.48		0
	50	0	11.27	11.58	11.49		0
16QAM	1	0	11.57	11.79	11.71	0-1	0
	1	25	11.43	11.66	11.44		0
	1	49	11.52	11.73	11.59		0
	25	0	11.27	11.65	11.50	0-2	0
	25	12	11.20	11.64	11.48		0
	25	25	11.29	11.67	11.47		0
	50	0	11.21	11.56	11.45		0
64QAM	1	0	11.33	11.62	11.49	0-2	0
	1	25	11.10	11.58	11.38		0
	1	49	11.20	11.74	11.56		0
	25	0	11.13	11.34	11.42	0-3	0
	25	12	10.99	11.40	11.36		0
	25	25	11.12	11.35	11.37		0
	50	0	11.01	11.34	11.36		0

Table 8-108
LTE Band 4 Conducted Powers Ant 1A - 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	11.52	11.69	11.58	0	0
	1	12	11.51	11.72	11.51		0
	1	24	11.42	11.67	11.56		0
	12	0	11.40	11.62	11.34	0-1	0
	12	6	11.39	11.63	11.36		0
	12	13	11.38	11.61	11.40		0
	25	0	11.32	11.53	11.37		0
16QAM	1	0	11.34	11.79	11.36	0-1	0
	1	12	11.35	11.78	11.24		0
	1	24	11.32	11.77	11.43		0
	12	0	11.10	11.41	10.99	0-2	0
	12	6	11.09	11.38	10.97		0
	12	13	11.06	11.33	11.01		0
	25	0	11.02	11.37	11.00		0
64QAM	1	0	11.42	11.79	11.35	0-2	0
	1	12	11.18	11.78	11.40		0
	1	24	11.15	11.75	11.49		0
	12	0	10.91	11.39	11.11	0-3	0
	12	6	10.93	11.32	11.16		0
	12	13	10.85	11.30	11.19		0
	25	0	10.89	11.36	11.15		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 103 of 293

Table 8-109
LTE Band 4 Conducted Powers Ant 1A - 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	11.32	11.46	11.13	0	0
	1	7	11.38	11.52	11.25		0
	1	14	11.23	11.39	11.16		0
	8	0	11.23	11.34	11.23	0-1	0
	8	4	11.25	11.40	11.24		0
	8	7	11.22	11.32	11.28		0
16QAM	15	0	11.24	11.38	11.20	0-1	0
	1	0	11.28	11.40	11.18		0
	1	7	11.37	11.53	11.17		0
	1	14	11.31	11.55	11.11	0-2	0
	8	0	10.92	11.31	10.97		0
	8	4	10.91	11.33	11.06		0
64QAM	8	7	10.93	11.21	10.99	0-2	0
	15	0	10.88	11.17	10.94		0
	1	0	10.96	11.68	11.00		0-2
	1	7	11.04	11.60	11.00	0	
	1	14	10.97	11.69	11.12	0-3	
	8	0	10.83	11.21	10.86		0
8	4	10.81	11.22	10.93	0		
64QAM	8	7	10.80	11.19	10.92	0-3	0
	15	0	10.80	11.13	10.86		0

Table 8-110
LTE Band 4 Conducted Powers Ant 1A - 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	11.19	11.65	11.33	0	0
	1	2	11.40	11.62	11.33		0
	1	5	11.20	11.66	11.35		0
	3	0	11.29	11.44	11.33		0
	3	2	11.22	11.41	11.30		0
	3	3	11.22	11.43	11.29	0	
	6	0	11.18	11.42	11.28	0-1	0
16QAM	1	0	11.44	11.54	11.25	0-1	0
	1	2	11.44	11.53	11.22		0
	1	5	11.51	11.67	11.12		0
	3	0	11.16	11.43	11.06		0
	3	2	11.21	11.42	11.20		0
	3	3	11.23	11.43	11.19	0	
	6	0	11.15	11.31	11.11	0-2	0
64QAM	1	0	11.27	11.60	11.42	0-2	0
	1	2	11.31	11.48	11.34		0
	1	5	11.20	11.56	11.33		0
	3	0	11.10	11.47	11.12		0
	3	2	11.03	11.37	11.05		0
	3	3	11.13	11.45	11.13	0	
	6	0	10.84	11.20	10.94	0-3	0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 104 of 293

Table 8-111
LTE Band 4 Conducted Powers Ant 3A - 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	13.64	0	0
	1	50	13.59		0
	1	99	13.62		0
	50	0	13.49	0-1	0
	50	25	13.49		0
	50	50	13.50		0
	100	0	13.45		0
16QAM	1	0	13.72	0-1	0
	1	50	13.72		0
	1	99	13.74		0
	50	0	13.43	0-2	0
	50	25	13.44		0
	50	50	13.45		0
	100	0	13.41		0
64QAM	1	0	13.64	0-2	0
	1	50	13.56		0
	1	99	13.63		0
	50	0	13.46	0-3	0
	50	25	13.47		0
	50	50	13.46		0
	100	0	13.44		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 8-112
LTE Band 4 Conducted Powers Ant 3A - 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	13.51	13.49	13.66	0	0
	1	36	13.46	13.67	13.59		0
	1	74	13.42	13.61	13.57		0
	36	0	13.65	13.74	13.53	0-1	0
	36	18	13.55	13.79	13.51		0
	36	37	13.45	13.69	13.49		0
	75	0	13.50	13.74	13.49		0
16QAM	1	0	13.71	13.43	13.62	0-1	0
	1	36	13.73	13.59	13.47		0
	1	74	13.48	13.70	13.44		0
	36	0	13.52	13.50	13.39	0-2	0
	36	18	13.40	13.52	13.37		0
	36	37	13.32	13.45	13.30		0
	75	0	13.33	13.50	13.33		0
64QAM	1	0	13.30	13.54	13.50	0-2	0
	1	36	13.48	13.73	13.40		0
	1	74	13.61	13.72	13.44		0
	36	0	13.55	13.59	13.38	0-3	0
	36	18	13.43	13.61	13.41		0
	36	37	13.40	13.49	13.36		0
	75	0	13.39	13.56	13.34		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 105 of 293

Table 8-113
LTE Band 4 Conducted Powers Ant 3A - 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	13.68	13.71	13.45	0	0
	1	25	13.70	13.64	13.31		0
	1	49	13.46	13.53	13.43		0
	25	0	13.67	13.71	13.43	0-1	0
	25	12	13.68	13.68	13.42		0
	25	25	13.59	13.61	13.53		0
	50	0	13.66	13.69	13.43		0
16QAM	1	0	13.68	13.78	13.44	0-1	0
	1	25	13.53	13.79	13.44		0
	1	49	13.20	13.61	13.26		0
	25	0	13.42	13.56	13.58	0-2	0
	25	12	13.40	13.57	13.23		0
	25	25	13.31	13.44	13.22		0
	50	0	13.40	13.57	13.22		0
64QAM	1	0	13.38	13.61	13.45	0-2	0
	1	25	13.45	13.73	13.50		0
	1	49	13.38	13.61	13.54		0
	25	0	13.38	13.55	13.39	0-3	0
	25	12	13.39	13.57	13.35		0
	25	25	13.36	13.44	13.47		0
	50	0	13.36	13.55	13.34		0

Table 8-114
LTE Band 4 Conducted Powers Ant 3A - 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	13.52	13.78	13.33	0	0
	1	12	13.56	13.81	13.43		0
	1	24	13.69	13.77	13.32		0
	12	0	13.52	13.66	13.38	0-1	0
	12	6	13.46	13.65	13.47		0
	12	13	13.53	13.59	13.45		0
	25	0	13.49	13.67	13.47		0
16QAM	1	0	13.41	13.63	13.45	0-1	0
	1	12	13.29	13.83	13.55		0
	1	24	13.52	13.56	13.47		0
	12	0	13.31	13.36	13.15	0-2	0
	12	6	13.17	13.36	13.21		0
	12	13	13.24	13.29	13.18		0
	25	0	13.19	13.31	13.21		0
64QAM	1	0	13.40	13.51	13.59	0-2	0
	1	12	13.36	13.25	13.71		0
	1	24	13.60	13.24	13.48		0
	12	0	13.19	13.26	13.16	0-3	0
	12	6	13.21	13.25	13.33		0
	12	13	13.21	13.16	13.25		0
	25	0	13.17	13.21	13.28		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 106 of 293

Table 8-115
LTE Band 4 Conducted Powers Ant 3A - 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	13.33	13.59	13.40	0	0
	1	7	13.44	13.66	13.43		0
	1	14	13.37	13.54	13.27		0
	8	0	13.46	13.50	13.44	0-1	0
	8	4	13.45	13.48	13.40		0
	8	7	13.36	13.40	13.39		0
	15	0	13.39	13.47	13.44		0
16QAM	1	0	13.21	13.76	13.52	0-1	0
	1	7	13.37	13.76	13.69		0
	1	14	13.16	13.47	13.38		0
	8	0	13.11	13.28	13.14	0-2	0
	8	4	13.03	13.26	13.05		0
	8	7	13.03	13.16	13.10		0
	15	0	13.02	13.22	13.11		0
64QAM	1	0	13.39	13.53	13.50	0-2	0
	1	7	13.64	13.47	13.50		0
	1	14	13.36	13.39	13.44		0
	8	0	13.18	13.23	13.19	0-3	0
	8	4	13.12	13.24	13.15		0
	8	7	13.08	13.12	13.16		0
	15	0	13.07	13.13	13.12		0

Table 8-116
LTE Band 4 Conducted Powers Ant 3A - 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	13.50	13.61	13.49	0	0
	1	2	13.54	13.56	13.46		0
	1	5	13.51	13.60	13.41		0
	3	0	13.41	13.48	13.35		0
	3	2	13.47	13.46	13.36		0
	3	3	13.48	13.48	13.30		0
	6	0	13.46	13.45	13.31	0-1	0
16QAM	1	0	13.47	13.48	13.50	0-1	0
	1	2	13.39	13.56	13.46		0
	1	5	13.45	13.51	13.41		0
	3	0	13.17	13.30	13.17		0
	3	2	13.20	13.30	13.19		0
	3	3	13.21	13.29	13.15		0
	6	0	13.22	13.14	13.11	0-2	0
64QAM	1	0	13.32	13.44	13.51	0-2	0
	1	2	13.30	13.51	13.50		0
	1	5	13.37	13.58	13.45		0
	3	0	13.14	13.32	13.31		0
	3	2	13.16	13.34	13.34		0
	3	3	13.17	13.31	13.25		0
	6	0	13.12	13.24	13.16	0-3	0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 107 of 293

Table 8-117
LTE Band 4 Conducted Powers Ant 3A - 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	10.62	0	0
	1	50	10.87		0
	1	99	10.63		0
	50	0	10.75	0-1	0
	50	25	10.82		0
	50	50	10.72		0
	100	0	10.79		0
16QAM	1	0	10.77	0-1	0
	1	50	10.86		0
	1	99	10.78		0
	50	0	10.58	0-2	0
	50	25	10.63		0
	50	50	10.56		0
	100	0	10.59		0
64QAM	1	0	10.51	0-2	0
	1	50	10.76		0
	1	99	10.56		0
	50	0	10.56	0-3	0
	50	25	10.61		0
	50	50	10.54		0
	100	0	10.58		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 8-118
LTE Band 4 Conducted Powers Ant 3A - 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	10.70	10.88	10.86	0	0
	1	36	10.56	11.10	10.93		0
	1	74	10.53	11.08	10.71		0
	36	0	10.83	10.93	10.84	0-1	0
	36	18	10.88	11.02	11.03		0
	36	37	10.92	10.99	11.01		0
	75	0	10.87	10.99	10.98		0
16QAM	1	0	10.63	10.34	10.79	0-1	0
	1	36	10.55	10.73	10.82		0
	1	74	10.63	10.69	10.58		0
	36	0	10.38	10.34	10.41	0-2	0
	36	18	10.39	10.43	10.59		0
	36	37	10.42	10.39	10.59		0
	75	0	10.37	10.45	10.55		0
64QAM	1	0	10.63	10.50	10.64	0-2	0
	1	36	10.50	10.56	10.76		0
	1	74	10.45	10.53	10.53		0
	36	0	10.39	10.36	10.44	0-3	0
	36	18	10.42	10.43	10.66		0
	36	37	10.43	10.39	10.66		0
	75	0	10.35	10.40	10.55		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 108 of 293

Table 8-119
LTE Band 4 Conducted Powers Ant 3A - 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	10.83	10.98	10.89	0	0
	1	25	10.66	10.97	10.81		0
	1	49	10.71	10.93	10.59		0
	25	0	10.90	11.06	10.99	0-1	0
	25	12	10.79	11.05	10.94		0
	25	25	10.78	11.00	10.81		0
	50	0	10.79	11.04	10.90		0
16QAM	1	0	10.66	10.57	10.59	0-1	0
	1	25	10.62	10.68	10.43		0
	1	49	10.41	10.53	10.45		0
	25	0	10.43	10.44	10.37	0-2	0
	25	12	10.24	10.46	10.41		0
	25	25	10.21	10.47	10.33		0
	50	0	10.26	10.60	10.41		0
64QAM	1	0	10.54	10.50	10.55	0-2	0
	1	25	10.31	10.35	10.42		0
	1	49	10.45	10.48	10.38		0
	25	0	10.39	10.48	10.47	0-3	0
	25	12	10.22	10.48	10.41		0
	25	25	10.23	10.48	10.42		0
	50	0	10.27	10.46	10.41		0

Table 8-120
LTE Band 4 Conducted Powers Ant 3A - 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	10.95	10.85	10.72	0	0
	1	12	10.94	10.88	10.63		0
	1	24	10.89	10.88	10.53		0
	12	0	10.82	10.80	10.77	0-1	0
	12	6	10.80	10.83	10.69		0
	12	13	10.77	10.80	10.62		0
	25	0	10.77	10.86	10.69		0
16QAM	1	0	10.63	10.62	10.57	0-1	0
	1	12	10.46	10.63	10.55		0
	1	24	10.68	10.86	10.57		0
	12	0	10.33	10.38	10.38	0-2	0
	12	6	10.29	10.43	10.23		0
	12	13	10.26	10.42	10.22		0
	25	0	10.29	10.41	10.22		0
64QAM	1	0	10.49	10.70	10.35	0-2	0
	1	12	10.66	10.74	10.42		0
	1	24	10.24	10.89	10.62		0
	12	0	10.36	10.46	10.33	0-3	0
	12	6	10.31	10.31	10.18		0
	12	13	10.19	10.36	10.18		0
	25	0	10.27	10.36	10.19		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 109 of 293

Table 8-121
LTE Band 4 Conducted Powers Ant 3A - 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	10.80	10.68	10.61	0	0
	1	7	10.86	10.73	10.56		0
	1	14	10.80	10.64	10.48		0
	8	0	10.74	10.73	10.63	0-1	0
	8	4	10.74	10.75	10.59		0
	8	7	10.74	10.72	10.60		0
16QAM	15	0	10.74	10.75	10.60		0
	1	0	10.61	10.31	10.43	0-1	0
	1	7	10.63	10.72	10.37		0
	1	14	10.71	10.47	10.32		0-2
	8	0	10.27	10.21	10.02	0	
	8	4	10.28	10.22	9.97	0	
	8	7	10.23	10.16	10.00	0	
64QAM	15	0	10.22	10.17	9.94		0
	1	0	10.61	10.40	10.12	0-2	0
	1	7	10.59	10.72	10.16		0
	1	14	10.62	10.42	10.09		0-3
	8	0	10.29	10.22	10.01	0	
	8	4	10.24	10.17	10.00	0	
	8	7	10.27	10.16	9.96	0	
15	0	10.24	10.13	9.93		0	

Table 8-122
LTE Band 4 Conducted Powers Ant 3A - 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	10.86	10.72	10.66	0	0
	1	2	10.83	10.93	10.61		0
	1	5	10.86	10.95	10.63		0
	3	0	10.77	10.72	10.58		0
	3	2	10.80	10.75	10.57		0
	3	3	10.78	10.74	10.59		0
	6	0	10.73	10.71	10.55	0-1	0
16QAM	1	0	10.62	10.16	10.45	0-1	0
	1	2	10.61	10.47	10.19		0
	1	5	10.78	10.55	10.34		0
	3	0	10.47	10.20	10.13		0
	3	2	10.45	10.37	10.15		0
	3	3	10.38	10.28	10.10		0
	6	0	10.29	10.17	9.93	0-2	0
64QAM	1	0	10.74	10.49	10.24	0-2	0
	1	2	10.62	10.41	10.35		0
	1	5	10.62	10.66	10.23		0
	3	0	10.43	10.46	10.06		0
	3	2	10.32	10.45	10.15		0
	3	3	10.46	10.30	10.14		0
	6	0	10.28	10.14	9.96	0-3	0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 110 of 293

8.3.8

LTE Band 66

Table 8-123
LTE Band 66 Conducted Powers Ant 4 - 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	13.62	13.35	13.39	0	0
	1	50	13.60	13.39	13.44		0
	1	99	13.41	13.29	13.37		0
	50	0	13.58	13.31	13.51	0-1	0
	50	25	13.51	13.40	13.46		0
	50	50	13.28	13.27	13.48		0
100	0	13.48	13.31	13.34	0		
16QAM	1	0	13.70	13.35	13.63	0-1	0
	1	50	13.69	13.44	13.58		0
	1	99	13.51	13.31	13.52		0
	50	0	13.47	13.32	13.26	0-2	0
	50	25	13.44	13.41	13.24		0
	50	50	13.26	13.25	13.28		0
100	0	13.38	13.33	13.21	0		
64QAM	1	0	13.68	13.28	13.28	0-2	0
	1	50	13.75	13.33	13.37		0
	1	99	13.61	13.24	13.39		0
	50	0	13.43	13.24	13.25	0-3	0
	50	25	13.42	13.32	13.23		0
	50	50	13.24	13.18	13.26		0
100	0	13.34	13.27	13.14	0		

Table 8-124
LTE Band 66 Conducted Powers Ant 4 - 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	13.44	13.33	13.10	0	0
	1	36	13.45	13.49	13.24		0
	1	74	13.36	13.32	13.22		0
	36	0	13.44	13.47	13.29	0-1	0
	36	18	13.45	13.53	13.36		0
	36	37	13.41	13.48	13.36		0
16QAM	75	0	13.40	13.49	13.32	0-1	0
	1	0	13.35	13.31	13.04		0
	1	36	13.33	13.42	13.17		0
	1	74	13.25	13.40	13.15	0-2	0
	36	0	13.20	13.31	13.08		0
	36	18	13.18	13.43	13.16		0
64QAM	36	37	13.20	13.34	13.12	0-2	0
	75	0	13.12	13.37	13.10		0
	1	0	13.34	13.38	13.10		0-2
	1	36	13.32	13.66	13.23	0	
	1	74	13.23	13.52	13.06	0	
	36	0	13.15	13.31	13.12	0-3	0
36	18	13.18	13.43	13.17	0		
36	37	13.21	13.37	13.12	0		
	75	0	13.14	13.36	13.07	0	

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 111 of 293

Table 8-125
LTE Band 66 Conducted Powers Ant 4 - 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	13.55	13.42	13.31	0	0
	1	25	13.47	13.34	13.29		0
	1	49	13.46	13.34	13.27		0
	25	0	13.44	13.38	13.37	0-1	0
	25	12	13.38	13.41	13.39		0
	25	25	13.35	13.41	13.36		0
16QAM	50	0	13.38	13.41	13.39	0-1	0
	1	0	13.59	13.63	13.05		0
	1	25	13.58	13.58	13.15		0
	1	49	13.52	13.44	13.09	0-2	0
	25	0	13.35	13.38	13.17		0
	25	12	13.29	13.41	13.16		0
64QAM	25	25	13.26	13.39	13.11	0-2	0
	50	0	13.29	13.42	13.13		0
	1	0	13.56	13.65	13.25		0-2
	1	25	13.48	13.75	13.37	0	
	1	49	13.57	13.64	13.28	0	
	64QAM	25	0	13.41	13.42	13.16	0-3
25		12	13.34	13.44	13.16	0	
25		25	13.30	13.41	13.11	0	
50		0	13.32	13.41	13.14	0	

Table 8-126
LTE Band 66 Conducted Powers Ant 4 - 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	13.49	13.25	13.39	0	0
	1	12	13.44	13.33	13.32		0
	1	24	13.44	13.33	13.33		0
	12	0	13.38	13.23	13.21	0-1	0
	12	6	13.34	13.21	13.15		0
	12	13	13.29	13.22	13.16		0
16QAM	25	0	13.34	13.22	13.16	0-1	0
	1	0	13.47	13.29	13.30		0
	1	12	13.43	13.31	13.10		0
	1	24	13.49	13.44	13.29	0-2	0
	12	0	13.18	13.10	13.06		0
	12	6	13.17	13.14	13.00		0
64QAM	12	13	13.11	13.18	12.99	0-2	0
	25	0	13.10	13.14	13.00		0
	1	0	13.48	13.26	13.36	0-2	0
	1	12	13.60	13.36	13.06		0
	1	24	13.47	13.40	13.21	0-3	0
	12	0	13.21	13.23	13.02		0
12	6	13.15	13.13	13.00	0		
12	13	13.10	13.19	13.04	0		
	25	0	13.13	13.20	12.96		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 112 of 293

Table 8-127
LTE Band 66 Conducted Powers Ant 4 - 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	13.28	13.25	13.05	0	0
	1	7	13.34	13.31	13.11		0
	1	14	13.28	13.25	13.07		0
	8	0	13.21	13.25	13.16	0-1	0
	8	4	13.21	13.25	13.16		0
	8	7	13.22	13.23	13.18		0
16QAM	15	0	13.22	13.28	13.17	0-1	0
	1	0	13.54	13.37	13.55		0
	1	7	13.49	13.46	13.68		0
	1	14	13.60	13.32	13.61	0-2	0
	8	0	13.40	13.28	13.20		0
	8	4	13.40	13.25	13.19		0
64QAM	8	7	13.36	13.31	13.19	0-2	0
	15	0	13.31	13.21	13.19		0
	1	0	13.67	13.32	13.47	0-2	0
	1	7	13.74	13.42	13.42		0
	1	14	13.64	13.35	13.32	0-3	0
	8	0	13.30	13.35	13.15		0
8	4	13.29	13.31	13.14	0		
8	7	13.27	13.32	13.13	0		
	15	0	13.29	13.26	13.11	0	

Table 8-128
LTE Band 66 Conducted Powers Ant 4 - 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	13.41	13.36	13.27	0	0
	1	2	13.41	13.32	13.24		0
	1	5	13.44	13.33	13.28		0
	3	0	13.29	13.32	13.15		0
	3	2	13.29	13.30	13.12		0
	3	3	13.31	13.30	13.14		0
	6	0	13.27	13.26	13.06	0-1	0
16QAM	1	0	13.52	13.57	13.30	0-1	0
	1	2	13.63	13.28	13.41		0
	1	5	13.67	13.41	13.33		0
	3	0	13.29	13.29	13.23		0
	3	2	13.39	13.21	13.31		0
	3	3	13.35	13.41	13.29		0
	6	0	13.26	13.25	13.11	0-2	0
64QAM	1	0	13.42	13.55	13.42	0-2	0
	1	2	13.41	13.63	13.39		0
	1	5	13.57	13.56	13.51		0
	3	0	13.46	13.36	13.31		0
	3	2	13.43	13.38	13.34		0
	3	3	13.40	13.44	13.23		0
	6	0	13.17	13.19	13.11	0-3	0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 113 of 293

Table 8-129
LTE Band 66 Conducted Powers Ant 4 - 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	11.06	11.28	10.96	0	0
	1	50	10.95	11.27	11.01		0
	1	99	10.90	11.20	11.01		0
	50	0	11.08	11.14	10.99	0-1	0
	50	25	11.02	11.11	10.95		0
	50	50	11.07	11.10	10.94		0
	100	0	10.95	11.07	10.92		0
16QAM	1	0	10.97	11.31	10.92	0-1	0
	1	50	10.90	11.19	10.96		0
	1	99	10.99	11.11	10.87		0
	50	0	10.68	10.70	10.60	0-2	0
	50	25	10.55	10.66	10.62		0
	50	50	10.62	10.64	10.59		0
	100	0	10.51	10.62	10.55		0
64QAM	1	0	11.03	11.12	11.10	0-2	0
	1	50	10.92	11.09	11.28		0
	1	99	10.78	11.05	11.16		0
	50	0	10.71	10.74	10.78	0-3	0
	50	25	10.59	10.71	10.61		0
	50	50	10.56	10.66	10.77		0
	100	0	10.53	10.51	10.69		0

Table 8-130
LTE Band 66 Conducted Powers Ant 4 - 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	11.26	10.91	10.98	0	0
	1	36	11.29	10.94	10.99		0
	1	74	11.15	10.96	11.17		0
	36	0	11.23	10.98	11.00	0-1	0
	36	18	11.22	11.01	10.98		0
	36	37	11.18	11.05	11.05		0
	75	0	11.11	10.98	10.79		0
16QAM	1	0	10.86	10.34	10.51	0-1	0
	1	36	10.75	10.38	10.59		0
	1	74	10.57	10.58	10.86		0
	36	0	10.68	10.43	10.55	0-2	0
	36	18	10.68	10.46	10.52		0
	36	37	10.60	10.56	10.65		0
	75	0	10.61	10.61	10.34		0
64QAM	1	0	10.92	10.81	10.58	0-2	0
	1	36	10.86	10.94	10.46		0
	1	74	10.60	10.87	10.48		0
	36	0	10.72	10.62	10.38	0-3	0
	36	18	10.70	10.63	10.37		0
	36	37	10.64	10.64	10.52		0
	75	0	10.58	10.58	10.32		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 114 of 293

Table 8-131
LTE Band 66 Conducted Powers Ant 4 - 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	11.39	10.87	11.11	0	0
	1	25	11.34	10.84	11.10		0
	1	49	11.29	10.98	11.16		0
	25	0	11.26	10.92	10.97	0-1	0
	25	12	11.20	10.88	11.08		0
	25	25	11.17	10.93	11.19		0
	50	0	11.17	10.90	11.07		0
16QAM	1	0	11.07	10.41	10.54	0-1	0
	1	25	11.04	10.62	10.92		0
	1	49	11.21	10.60	10.76		0
	25	0	10.80	10.44	10.66	0-2	0
	25	12	10.75	10.42	10.75		0
	25	25	10.75	10.47	10.84		0
	50	0	10.74	10.44	10.65		0
64QAM	1	0	11.03	10.60	10.96	0-2	0
	1	25	11.02	10.74	11.12		0
	1	49	11.03	10.84	10.88		0
	25	0	10.60	10.62	10.43	0-3	0
	25	12	10.63	10.60	10.53		0
	25	25	10.64	10.63	10.62		0
	50	0	10.62	10.58	10.47		0

Table 8-132
LTE Band 66 Conducted Powers Ant 4 - 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	11.13	10.89	11.33	0	0
	1	12	11.14	10.80	11.36		0
	1	24	11.09	10.87	11.35		0
	12	0	10.99	10.75	11.07	0-1	0
	12	6	10.99	10.76	11.10		0
	12	13	10.94	10.78	11.10		0
	25	0	11.06	10.84	11.06		0
16QAM	1	0	10.84	10.47	10.96	0-1	0
	1	12	10.82	10.52	10.90		0
	1	24	10.69	10.71	10.88		0
	12	0	10.51	10.23	10.55	0-2	0
	12	6	10.51	10.29	10.54		0
	12	13	10.48	10.35	10.62		0
	25	0	10.48	10.28	10.57		0
64QAM	1	0	10.96	10.47	10.83	0-2	0
	1	12	10.97	10.50	10.86		0
	1	24	10.90	10.54	10.74		0
	12	0	10.54	10.28	10.51	0-3	0
	12	6	10.57	10.30	10.59		0
	12	13	10.50	10.32	10.52		0
	25	0	10.54	10.30	10.49		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 115 of 293

Table 8-133
LTE Band 66 Conducted Powers Ant 4 - 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	11.04	10.83	10.81	0	0
	1	7	11.08	10.86	10.92		0
	1	14	11.09	10.85	10.87		0
	8	0	10.92	10.76	10.88	0-1	0
	8	4	10.93	10.77	10.88		0
	8	7	10.94	10.79	10.92		0
16QAM	15	0	10.94	10.79	10.87	0-1	0
	1	0	10.73	10.45	10.65		0
	1	7	10.89	10.41	10.59		0
	1	14	10.82	10.35	10.37	0-2	0
	8	0	10.42	10.18	10.44		0
	8	4	10.36	10.23	10.45		0
64QAM	8	7	10.47	10.30	10.45	0-2	0
	15	0	10.30	10.20	10.35		0
	1	0	10.53	10.48	10.66		0-2
	1	7	10.70	10.35	10.82	0	
	1	14	10.74	10.59	10.71	0-3	
	8	0	10.30	10.17	10.51		0
8	4	10.34	10.13	10.44	0		
64QAM	8	7	10.39	10.15	10.45	0-3	0
	15	0	10.27	10.12	10.46		0

Table 8-134
LTE Band 66 Conducted Powers Ant 4 - 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	10.85	10.93	11.10	0	0
	1	2	10.92	10.90	11.08		0
	1	5	10.94	10.93	11.11		0
	3	0	10.91	10.75	10.93		0
	3	2	10.89	10.77	10.92		0
	3	3	10.91	10.74	10.95		0
6	0	10.86	10.69	10.89	0-1	0	
16QAM	1	0	10.00	10.77	10.60	0-1	0
	1	2	10.71	10.60	10.87		0
	1	5	10.71	10.63	10.75		0
	3	0	10.72	10.27	10.61		0
	3	2	10.68	10.35	10.49		0
	3	3	10.65	10.31	10.55		0
6	0	10.50	10.27	10.46	0-2	0	
64QAM	1	0	10.90	10.37	10.91	0-2	0
	1	2	10.80	10.46	10.90		0
	1	5	10.86	10.40	10.80		0
	3	0	10.65	10.42	10.58		0
	3	2	10.67	10.46	10.56		0
	3	3	10.69	10.34	10.54		0
6	0	10.44	10.15	10.39	0-3	0	

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 116 of 293

Table 8-135
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	15.17	15.10	15.05	0	0
	1	50	14.93	14.86	15.11		0
	1	99	15.07	14.90	15.12		0
	50	0	15.20	15.04	15.07	0-1	0
	50	25	15.03	15.00	15.10		0
	50	50	15.06	15.05	15.11		0
	100	0	14.94	15.05	15.09		0
16QAM	1	0	15.06	14.95	14.95	0-1	0
	1	50	14.91	15.02	15.01		0
	1	99	15.04	15.04	15.13		0
	50	0	14.78	14.88	14.86	0-2	0
	50	25	14.74	14.84	14.88		0
	50	50	14.78	14.89	14.89		0
	100	0	14.72	14.82	14.86		0
64QAM	1	0	14.95	14.91	15.05	0-2	0
	1	50	14.82	15.07	15.10		0
	1	99	14.99	15.08	15.16		0
	50	0	14.79	14.87	14.87	0-3	0
	50	25	14.76	14.86	14.89		0
	50	50	14.79	14.90	14.90		0
	100	0	14.75	14.82	14.88		0

Table 8-136
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	15.02	15.02	14.80	0	0
	1	36	15.06	14.93	15.07		0
	1	74	15.04	14.92	14.94		0
	36	0	15.07	15.07	14.97	0-1	0
	36	18	15.00	15.00	15.12		0
	36	37	14.91	14.94	15.07		0
	75	0	14.94	14.95	15.04		0
16QAM	1	0	14.98	14.84	14.75	0-1	0
	1	36	14.84	14.71	14.99		0
	1	74	14.79	14.89	14.72		0
	36	0	14.90	14.84	14.81	0-2	0
	36	18	14.81	14.78	14.97		0
	36	37	14.71	14.74	14.91		0
	75	0	14.73	14.73	14.92		0
64QAM	1	0	14.88	14.84	14.94	0-2	0
	1	36	14.67	14.68	15.04		0
	1	74	14.75	14.79	15.03		0
	36	0	14.87	14.79	14.83	0-3	0
	36	18	14.79	14.72	14.99		0
	36	37	14.67	14.70	14.93		0
	75	0	14.72	14.70	14.91		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 117 of 293

Table 8-137
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	14.94	15.00	14.96	0	0
	1	25	14.96	14.87	14.98		0
	1	49	14.80	14.83	15.00		0
	25	0	15.03	15.09	15.11	0-1	0
	25	12	15.02	14.98	15.11		0
	25	25	14.98	14.94	15.06		0
16QAM	50	0	15.02	14.97	15.10	0-1	0
	1	0	14.75	14.94	14.88		0
	1	25	14.86	14.76	14.77		0
	1	49	14.66	14.84	14.88	0-2	0
	25	0	14.83	14.82	14.91		0
	25	12	14.83	14.72	14.88		0
64QAM	25	25	14.76	14.70	14.75	0-2	0
	50	0	14.80	14.71	14.82		0
	1	0	14.85	15.07	15.27		0-2
	1	25	14.94	14.90	15.08	0	
	1	49	14.78	15.02	15.10	0	
	25	0	14.85	14.92	15.03	0-3	0
25	12	14.86	14.82	14.98	0		
25	25	14.82	14.77	14.95	0		
	50	0	14.88	14.88	14.97		0

Table 8-138
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	14.84	15.05	14.87	0	0
	1	12	14.82	14.98	14.76		0
	1	24	14.90	14.93	14.80		0
	12	0	14.79	14.87	14.95	0-1	0
	12	6	14.80	14.87	14.88		0
	12	13	14.85	14.82	14.86		0
16QAM	25	0	14.82	14.86	14.89	0-1	0
	1	0	14.84	14.88	14.68		0
	1	12	14.91	14.77	14.87		0
	1	24	14.98	14.84	14.86	0-2	0
	12	0	14.65	14.57	14.68		0
	12	6	14.59	14.57	14.70		0
64QAM	12	13	14.67	14.59	14.68	0-2	0
	25	0	14.59	14.53	14.68		0
	1	0	14.76	14.89	15.04	0-2	0
	1	12	14.77	14.98	14.86		0
	1	24	14.82	14.89	14.85	0-3	0
	12	0	14.54	14.64	14.71		0
12	6	14.61	14.60	14.63	0		
	12	13	14.65	14.56	14.65		0
	25	0	14.60	14.57	14.64		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 118 of 293

Table 8-139
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	14.76	14.74	14.77	0	0
	1	7	14.77	14.76	14.79		0
	1	14	14.67	14.71	14.76		0
	8	0	14.72	14.66	14.84	0-1	0
	8	4	14.75	14.65	14.82		0
	8	7	14.72	14.67	14.87		0
16QAM	15	0	14.77	14.66	14.85	0-1	0
	1	0	14.67	14.62	14.66		0
	1	7	14.81	14.69	14.83		0
	1	14	14.71	14.55	14.70	0-2	0
	8	0	14.53	14.45	14.52		0
	8	4	14.59	14.49	14.52		0
64QAM	8	7	14.54	14.42	14.54	0-2	0
	15	0	14.54	14.41	14.56		0
	1	0	14.72	14.87	14.99		0-2
	1	7	14.88	14.60	15.10	0	
	1	14	14.78	14.64	15.05	0-3	
	8	0	14.50	14.44	14.57		0
8	4	14.58	14.43	14.56	0		
	8	7	14.55	14.46	14.59	0-3	0
	15	0	14.55	14.47	14.53		0

Table 8-140
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	14.83	14.94	15.10	0	0
	1	2	14.81	14.90	15.06		0
	1	5	14.82	14.92	15.07		0
	3	0	14.82	14.86	14.91		0
	3	2	14.78	14.85	14.92		0
	3	3	14.81	14.82	14.92		0
16QAM	6	0	14.77	14.81	14.88	0-1	0
	1	0	14.82	14.84	14.98	0-1	0
	1	2	14.67	14.88	14.89		0
	1	5	14.67	14.86	14.89		0
	3	0	14.68	14.68	14.72		0
	3	2	14.65	14.66	14.74		0
3	3	14.72	14.50	14.68	0		
64QAM	6	0	14.53	14.58	14.56	0-2	0
	1	0	14.82	14.79	14.83	0-2	0
	1	2	14.72	14.84	14.86		0
	1	5	14.84	14.85	14.95		0
	3	0	14.59	14.58	14.74		0
	3	2	14.60	14.61	14.61		0
3	3	14.59	14.58	14.61	0		
64QAM	6	0	14.60	14.54	14.58	0-3	0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 119 of 293

Table 8-141
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	11.96	12.12	11.90	0	0
	1	50	11.83	12.19	12.11		0
	1	99	11.89	11.99	12.02		0
	50	0	11.98	12.20	12.13	0-1	0
	50	25	12.01	12.22	12.19		0
	50	50	11.95	12.16	12.18		0
	100	0	11.98	12.18	12.15		0
16QAM	1	0	12.30	12.29	12.16	0-1	0
	1	50	12.28	12.24	12.30		0
	1	99	12.29	12.15	12.22		0
	50	0	11.67	11.72	11.72	0-2	0
	50	25	11.73	11.71	11.78		0
	50	50	11.65	11.68	11.76		0
	100	0	11.70	11.73	11.65		0
64QAM	1	0	12.18	12.19	12.10	0-2	0
	1	50	12.11	12.29	12.27		0
	1	99	11.88	12.20	12.11		0
	50	0	11.52	11.86	11.62	0-3	0
	50	25	11.54	11.80	11.71		0
	50	50	11.40	11.77	11.75		0
	100	0	11.49	11.76	11.65		0

Table 8-142
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	12.23	11.92	12.17	0	0
	1	36	12.15	12.21	12.14		0
	1	74	12.14	12.30	11.96		0
	36	0	12.06	12.04	12.20	0-1	0
	36	18	12.02	12.14	12.09		0
	36	37	12.04	12.11	12.05		0
	75	0	11.98	12.07	12.00		0
16QAM	1	0	11.79	12.26	12.24	0-1	0
	1	36	11.67	12.23	12.29		0
	1	74	11.79	11.95	12.03		0
	36	0	11.80	11.97	11.82	0-2	0
	36	18	11.75	11.97	11.96		0
	36	37	11.74	11.84	11.90		0
	75	0	11.72	11.88	11.89		0
64QAM	1	0	12.02	12.21	11.82	0-2	0
	1	36	11.80	11.99	12.08		0
	1	74	11.69	11.88	11.98		0
	36	0	11.79	11.96	11.89	0-3	0
	36	18	11.74	11.99	12.00		0
	36	37	11.74	11.84	11.93		0
	75	0	11.74	11.86	11.93		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 120 of 293

Table 8-143
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	12.30	12.22	12.08	0	0
	1	25	12.16	12.13	12.01		0
	1	49	12.23	12.30	11.86		0
	25	0	12.09	12.05	11.95	0-1	0
	25	12	12.00	12.06	11.89		0
	25	25	11.97	12.01	11.83		0
16QAM	50	0	12.05	12.09	11.93	0-1	0
	1	0	11.74	11.86	12.23		0
	1	25	12.07	12.01	12.12		0
	1	49	11.74	11.95	12.14	0-2	0
	25	0	11.69	11.80	11.98		0
	25	12	11.62	11.85	11.95		0
64QAM	25	25	11.52	11.74	11.87	0-2	0
	50	0	11.59	11.78	11.93		0
	1	0	11.73	11.80	12.21		0-2
	1	25	11.72	11.83	12.14	0	
	1	49	11.78	11.95	12.06	0	
	25	0	11.60	11.85	12.02	0-3	0
25	12	11.60	11.87	11.89	0		
25	25	11.55	11.83	11.88	0		
	50	0	11.59	11.80	11.93		0

Table 8-144
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	12.08	11.94	12.27	0	0
	1	12	11.83	12.02	11.97		0
	1	24	12.12	11.99	12.12		0
	12	0	11.98	11.83	11.79	0-1	0
	12	6	11.94	11.75	11.73		0
	12	13	11.88	11.75	11.75		0
16QAM	25	0	11.89	11.78	11.68	0-1	0
	1	0	12.25	12.17	12.13		0
	1	12	11.90	12.05	12.06		0
	1	24	11.94	11.98	12.05	0-2	0
	12	0	11.70	11.73	11.79		0
	12	6	11.65	11.76	11.72		0
64QAM	12	13	11.62	11.71	11.69	0-2	0
	25	0	11.58	11.68	11.69		0
	1	0	11.99	12.04	12.21		0-2
	1	12	11.72	12.10	11.94	0	
	1	24	11.58	11.91	12.00	0-3	
	12	0	11.65	11.81	11.77		0
12	6	11.64	11.72	11.68	0		
64QAM	12	13	11.57	11.73	11.65	0-3	0
	25	0	11.61	11.66	11.71		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 121 of 293

Table 8-145

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	12.01	12.08	11.82	0	0
	1	7	12.05	12.00	11.91		0
	1	14	11.93	12.03	11.97		0
	8	0	11.72	11.78	11.62	0-1	0
	8	4	11.70	11.79	11.62		0
	8	7	11.71	11.71	11.61		0
16QAM	15	0	11.68	11.71	11.60	0-1	0
	1	0	12.07	11.91	11.81		0
	1	7	11.98	11.69	12.04		0
	1	14	11.87	11.87	11.79	0-2	0
	8	0	11.53	11.60	11.44		0
	8	4	11.55	11.57	11.44		0
64QAM	8	7	11.51	11.62	11.45	0-2	0
	15	0	11.52	11.51	11.45		0
	1	0	11.91	11.94	11.75	0-2	0
	1	7	12.06	11.81	11.74		0
	1	14	11.83	11.85	11.65	0-3	0
	8	0	11.56	11.64	11.52		0
8	4	11.58	11.52	11.46	0		
8	7	11.57	11.54	11.48	0		
	15	0	11.50	11.45	11.44		0

Table 8-146

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	12.04	11.74	11.80	0	0
	1	2	12.04	11.92	11.80		0
	1	5	12.06	12.01	11.84		0
	3	0	11.96	11.85	11.78		0
	3	2	11.86	11.84	11.75		0
	3	3	11.91	11.90	11.73		0
	6	0	11.75	11.74	11.56	0-1	0
16QAM	1	0	11.92	11.95	11.88	0-1	0
	1	2	11.86	12.02	11.96		0
	1	5	11.93	12.13	11.87		0
	3	0	11.70	11.76	11.66		0
	3	2	11.66	11.65	11.70		0
	3	3	11.61	11.56	11.73		0
	6	0	11.50	11.48	11.57	0-2	0
64QAM	1	0	12.00	11.86	11.79	0-2	0
	1	2	11.95	11.94	12.00		0
	1	5	11.88	11.83	11.95		0
	3	0	11.69	11.74	11.87		0
	3	2	11.67	11.64	11.83		0
	3	3	11.58	11.67	11.81		0
	6	0	11.52	11.59	11.54	0-3	0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 122 of 293

Table 8-147
LTE Band 66 Conducted Powers Ant 1A - 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	14.44	14.80	14.73	0	0
	1	50	14.65	14.64	14.50		0
	1	99	14.73	14.56	14.42		0
	50	0	14.70	14.69	14.57	0-1	0
	50	25	14.78	14.64	14.51		0
	50	50	14.72	14.66	14.39		0
	100	0	14.74	14.63	14.46		0
16QAM	1	0	14.54	14.57	14.46	0-1	0
	1	50	14.73	14.48	14.26		0
	1	99	14.80	14.32	14.30		0
	50	0	14.42	14.48	14.38	0-2	0
	50	25	14.53	14.43	14.26		0
	50	50	14.50	14.47	14.15		0
	100	0	14.47	14.45	14.23		0
64QAM	1	0	14.28	14.73	14.68	0-2	0
	1	50	14.50	14.60	14.50		0
	1	99	14.66	14.33	14.41		0
	50	0	14.44	14.46	14.31	0-3	0
	50	25	14.48	14.43	14.24		0
	50	50	14.49	14.45	14.12		0
	100	0	14.48	14.41	14.22		0

Table 8-148
LTE Band 66 Conducted Powers Ant 1A - 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	14.55	14.55	14.51	0	0
	1	36	14.51	14.62	14.50		0
	1	74	14.43	14.62	14.50		0
	36	0	14.57	14.69	14.44	0-1	0
	36	18	14.61	14.67	14.45		0
	36	37	14.53	14.58	14.41		0
	75	0	14.58	14.69	14.44		0
16QAM	1	0	14.47	14.59	14.50	0-1	0
	1	36	14.60	14.61	14.49		0
	1	74	14.52	14.60	14.53		0
	36	0	14.47	14.26	14.34	0-2	0
	36	18	14.45	14.34	14.34		0
	36	37	14.43	14.41	14.25		0
	75	0	14.41	14.32	14.27		0
64QAM	1	0	14.52	14.65	14.31	0-2	0
	1	36	14.63	14.47	14.41		0
	1	74	14.60	14.52	14.35		0
	36	0	14.38	14.33	14.31	0-3	0
	36	18	14.44	14.37	14.30		0
	36	37	14.37	14.42	14.24		0
	75	0	14.38	14.31	14.20		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 123 of 293

Table 8-149
LTE Band 66 Conducted Powers Ant 1A - 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	14.40	14.57	14.36	0	0
	1	25	14.45	14.56	14.31		0
	1	49	14.47	14.59	14.39		0
	25	0	14.45	14.63	14.45	0-1	0
	25	12	14.54	14.66	14.42		0
	25	25	14.56	14.68	14.45		0
16QAM	50	0	14.54	14.51	14.43	0-1	0
	1	0	14.75	14.51	14.44		0
	1	25	14.70	14.77	14.37		0
	1	49	14.73	14.61	14.28	0-2	0
	25	0	14.62	14.40	14.20		0
	25	12	14.59	14.39	14.18		0
64QAM	25	25	14.70	14.40	14.23	0-2	0
	50	0	14.63	14.40	14.17		0
	1	0	14.41	14.41	14.31		0-2
	1	25	14.59	14.53	14.23	0	
	1	49	14.51	14.68	14.29	0	
	25	0	14.32	14.37	14.22	0-3	0
25	12	14.42	14.35	14.21	0		
25	25	14.41	14.42	14.23	0		
	50	0	14.39	14.36	14.19		0

Table 8-150
LTE Band 66 Conducted Powers Ant 1A - 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	14.49	14.52	14.36	0	0
	1	12	14.51	14.53	14.24		0
	1	24	14.55	14.56	14.30		0
	12	0	14.58	14.63	14.48	0-1	0
	12	6	14.50	14.62	14.46		0
	12	13	14.52	14.62	14.48		0
16QAM	25	0	14.40	14.63	14.35		0
	1	0	14.55	14.52	14.43	0-1	0
	1	12	14.60	14.79	14.52		0
	1	24	14.65	14.62	14.58		0
	12	0	14.37	14.23	14.20	0-2	0
	12	6	14.35	14.37	14.24		0
12	13	14.34	14.40	14.28	0		
64QAM	25	0	14.37	14.39	14.25		0
	1	0	14.53	14.58	14.25	0-2	0
	1	12	14.64	14.38	14.31		0
	1	24	14.44	14.50	14.46		0
	12	0	14.39	14.36	14.27	0-3	0
	12	6	14.34	14.38	14.21		0
12	13	14.30	14.32	14.16	0		
	25	0	14.27	14.38	14.18		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 124 of 293

Table 8-151
LTE Band 66 Conducted Powers Ant 1A - 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	14.48	14.64	14.20	0	0
	1	7	14.42	14.66	14.15		0
	1	14	14.36	14.60	14.15		0
	8	0	14.36	14.53	14.19	0-1	0
	8	4	14.32	14.54	14.19		0
	8	7	14.30	14.55	14.28		0
16QAM	15	0	14.35	14.56	14.22		0
	1	0	14.45	14.73	14.55	0-1	0
	1	7	14.43	14.71	14.51		0
	1	14	14.60	14.53	14.47		0
	8	0	14.43	14.25	14.14	0-2	0
	8	4	14.36	14.29	14.14		0
8	7	14.32	14.24	14.18	0		
64QAM	15	0	14.33	14.24	14.10		0
	1	0	14.56	14.55	14.66	0-2	0
	1	7	14.59	14.62	14.54		0
	1	14	14.46	14.62	14.67		0
	8	0	14.29	14.20	14.17	0-3	0
	8	4	14.22	14.20	14.22		0
8	7	14.26	14.26	14.23	0		
	15	0	14.25	14.20	14.19		0

Table 8-152
LTE Band 66 Conducted Powers Ant 1A - 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	14.30	14.66	14.38	0	0
	1	2	14.29	14.64	14.35		0
	1	5	14.33	14.67	14.37		0
	3	0	14.35	14.53	14.26		0
	3	2	14.35	14.52	14.25		0
	3	3	14.35	14.49	14.25		0
	6	0	14.30	14.40	14.25	0-1	0
16QAM	1	0	14.36	14.60	14.44	0-1	0
	1	2	14.42	14.58	14.45		0
	1	5	14.39	14.54	14.48		0
	3	0	14.27	14.32	14.16		0
	3	2	14.26	14.34	14.18		0
	3	3	14.21	14.30	14.16		0
	6	0	14.23	14.30	14.20	0-2	0
64QAM	1	0	14.38	14.45	14.52	0-2	0
	1	2	14.31	14.47	14.45		0
	1	5	14.35	14.40	14.55		0
	3	0	14.31	14.37	14.34		0
	3	2	14.24	14.30	14.32		0
	3	3	14.26	14.29	14.27		0
	6	0	14.22	14.32	14.28	0-3	0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 125 of 293

Table 8-153
LTE Band 66 Conducted Powers Ant 1A - 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	11.54	11.75	11.80	0	0
	1	50	11.57	11.67	11.64		0
	1	99	11.62	11.67	11.51		0
	50	0	11.66	11.79	11.77	0-1	0
	50	25	11.80	11.76	11.67		0
	50	50	11.65	11.75	11.57		0
16QAM	100	0	11.72	11.74	11.58	0	
	1	0	11.75	11.77	11.63	0-1	0
	1	50	11.76	11.74	11.63		0
	1	99	11.80	11.76	11.45		0
	50	0	11.22	11.21	11.28	0-2	0
	50	25	11.33	11.19	11.13		0
50	50	11.40	11.16	11.10	0		
64QAM	100	0	11.27	11.08	11.12	0	
	1	0	11.43	11.80	11.50	0-2	0
	1	50	11.67	11.77	11.42		0
	1	99	11.63	11.61	11.49		0
	50	0	11.41	11.47	11.32	0-3	0
	50	25	11.46	11.49	11.20		0
50	50	11.57	11.38	11.12	0		
	100	0	11.44	11.49	11.10	0	

Table 8-154
LTE Band 66 Conducted Powers Ant 1A - 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	11.43	11.54	0	0
	1	36	11.40	11.51	11.46		0
	1	74	11.51	11.40	11.40		0
	36	0	11.33	11.54	11.66	0-1	0
	36	18	11.37	11.57	11.63		0
	36	37	11.50	11.56	11.60		0
	75	0	11.51	11.57	11.57		0
16QAM	1	0	11.58	11.68	11.66	0-1	0
	1	36	11.78	11.76	11.71		0
	1	74	11.80	11.66	11.67		0
	36	0	11.25	11.28	11.34	0-2	0
	36	18	11.37	11.32	11.24		0
	36	37	11.27	11.32	11.21		0
	75	0	11.29	11.30	11.16		0
64QAM	1	0	11.52	11.68	11.51	0-2	0
	1	36	11.73	11.70	11.63		0
	1	74	11.70	11.57	11.40		0
	36	0	11.24	11.32	11.23	0-3	0
	36	18	11.28	11.34	11.30		0
	36	37	11.26	11.39	11.28		0
	75	0	11.27	11.31	11.11		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 126 of 293

Table 8-155
LTE Band 66 Conducted Powers Ant 1A - 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	11.45	11.51	11.47	0	0
	1	25	11.50	11.57	11.49		0
	1	49	11.61	11.55	11.54		0
	25	0	11.56	11.40	11.55	0-1	0
	25	12	11.59	11.45	11.58		0
	25	25	11.66	11.47	11.60		0
16QAM	50	0	11.62	11.46	11.56	0-1	0
	1	0	11.56	11.77	11.56		0
	1	25	11.55	11.71	11.40		0
	1	49	11.67	11.72	11.44	0-2	0
	25	0	11.14	11.35	11.15		0
	25	12	11.17	11.31	11.13		0
64QAM	25	25	11.23	11.33	11.16	0-2	0
	50	0	11.23	11.32	11.14		0
	1	0	11.52	11.75	11.68		0-2
	1	25	11.69	11.79	11.51	0	
	1	49	11.68	11.78	11.39	0	
	25	0	11.21	11.29	11.21	0-3	0
25	12	11.27	11.39	11.17	0		
25	25	11.26	11.34	11.16	0		
	50	0	11.24	11.35	11.11		0

Table 8-156
LTE Band 66 Conducted Powers Ant 1A - 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	11.46	11.53	11.28	0	0
	1	12	11.43	11.64	11.21		0
	1	24	11.46	11.64	11.25		0
	12	0	11.46	11.68	11.06	0-1	0
	12	6	11.42	11.64	11.06		0
	12	13	11.46	11.65	11.00		0
16QAM	25	0	11.44	11.66	11.06	0-1	0
	1	0	11.69	11.76	11.52		0
	1	12	11.58	11.76	11.47		0
	1	24	11.67	11.71	11.29	0-2	0
	12	0	11.19	11.25	11.15		0
	12	6	11.18	11.24	11.18		0
64QAM	12	13	11.20	11.26	11.13	0-2	0
	25	0	11.15	11.26	11.09		0
	1	0	11.61	11.74	11.52		0-2
	1	12	11.74	11.78	11.44	0	
	1	24	11.78	11.73	11.57	0	
	12	0	11.29	11.24	11.20	0-3	0
12	6	11.33	11.22	11.12	0		
12	13	11.35	11.22	11.10	0		
	25	0	11.25	11.21	11.07		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 127 of 293

Table 8-157

LTE Band 66 Conducted Powers Ant 1A - 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	11.36	11.49	11.54	0	0
	1	7	11.40	11.53	11.55		0
	1	14	11.35	11.47	11.52		0
	8	0	11.36	11.50	11.42	0-1	0
	8	4	11.37	11.51	11.38		0
	8	7	11.39	11.50	11.49		0
16QAM	15	0	11.35	11.51	11.38	0-1	0
	1	0	11.58	11.78	11.56		0
	1	7	11.72	11.79	11.54		0
	1	14	11.80	11.75	11.46	0-2	0
	8	0	11.16	11.26	11.32		0
	8	4	11.16	11.22	11.33		0
64QAM	8	7	11.21	11.23	11.31	0-2	0
	15	0	11.12	11.22	11.24		0
	1	0	11.54	11.52	11.61		0-2
	1	7	11.77	11.62	11.72	0	
	1	14	11.72	11.57	11.56	0-3	
	8	0	11.06	11.13	11.18		0
8	4	11.11	11.08	11.12	0		
	8	7	11.09	11.11	11.10	0-3	0
	15	0	11.05	11.04	11.06		0

Table 8-158

LTE Band 66 Conducted Powers Ant 1A - 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	11.42	11.55	11.59	0	0
	1	2	11.38	11.53	11.54		0
	1	5	11.40	11.56	11.55		0
	3	0	11.41	11.54	11.41		0
	3	2	11.37	11.56	11.31		0
	3	3	11.39	11.53	11.34		0
	6	0	11.36	11.54	11.40	0-1	0
16QAM	1	0	11.62	11.74	11.67	0-1	0
	1	2	11.62	11.79	11.65		0
	1	5	11.56	11.76	11.61		0
	3	0	11.47	11.48	11.42		0
	3	2	11.46	11.47	11.35		0
	3	3	11.48	11.34	11.44		0
	6	0	11.32	11.33	11.32	0-2	0
64QAM	1	0	11.72	11.52	11.67	0-2	0
	1	2	11.64	11.47	11.60		0
	1	5	11.65	11.49	11.66		0
	3	0	11.19	11.14	11.23		0
	3	2	11.22	11.25	11.24		0
	3	3	11.24	11.22	11.18		0
	6	0	11.15	11.10	11.08	0-3	0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 128 of 293

Table 8-159
LTE Band 66 Conducted Powers Ant 3A - 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	13.56	13.76	13.54	0	0
	1	50	13.63	13.60	13.31		0
	1	99	13.72	13.58	13.36		0
	50	0	13.63	13.75	13.42	0-1	0
	50	25	13.70	13.66	13.28		0
	50	50	13.73	13.73	13.32		0
	100	0	13.70	13.64	13.27		0
16QAM	1	0	13.67	13.83	13.72	0-1	0
	1	50	13.77	13.70	13.48		0
	1	99	13.81	13.75	13.46		0
	50	0	13.40	13.54	13.20	0-2	0
	50	25	13.45	13.48	13.10		0
	50	50	13.51	13.55	13.14		0
	100	0	13.44	13.42	13.11		0
64QAM	1	0	13.55	13.76	13.62	0-2	0
	1	50	13.57	13.64	13.43		0
	1	99	13.62	13.58	13.44		0
	50	0	13.39	13.54	13.22	0-3	0
	50	25	13.44	13.44	13.13		0
	50	50	13.48	13.53	13.14		0
	100	0	13.45	13.41	13.08		0

Table 8-160
LTE Band 66 Conducted Powers Ant 3A - 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	13.78	13.74	13.34	0	0
	1	36	13.84	13.55	13.49		0
	1	74	13.78	13.45	13.40		0
	36	0	13.77	13.72	13.45	0-1	0
	36	18	13.67	13.65	13.60		0
	36	37	13.59	13.58	13.56		0
	75	0	13.62	13.61	13.56		0
16QAM	1	0	13.68	13.64	13.45	0-1	0
	1	36	13.64	13.45	13.41		0
	1	74	13.58	13.51	13.26		0
	36	0	13.49	13.44	13.20	0-2	0
	36	0	13.37	13.38	13.35		0
	36	37	13.32	13.33	13.28		0
	75	0	13.31	13.35	13.30		0
64QAM	1	0	13.72	13.65	13.27	0-2	0
	1	36	13.49	13.50	13.43		0
	1	74	13.36	13.40	13.46		0
	36	0	13.59	13.49	13.29	0-3	0
	36	18	13.45	13.41	13.41		0
	36	37	13.34	13.35	13.33		0
	75	0	13.36	13.34	13.31		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 129 of 293

Table 8-161
LTE Band 66 Conducted Powers Ant 3A - 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	13.67	13.61	13.44	0	0
	1	25	13.68	13.49	13.43		0
	1	49	13.47	13.45	13.36		0
	25	0	13.66	13.60	13.53	0-1	0
	25	12	13.65	13.54	13.49		0
	25	25	13.58	13.51	13.46		0
16QAM	50	0	13.65	13.40	13.48	0-1	0
	1	0	13.71	13.65	13.60		0
	1	25	13.52	13.37	13.62		0
	1	49	13.49	13.51	13.63	0-2	0
	25	0	13.53	13.37	13.31		0
	25	12	13.56	13.22	13.30		0
64QAM	25	25	13.44	13.22	13.29	0-2	0
	50	0	13.48	13.21	13.28		0
	1	0	13.74	13.51	13.51		0-2
	1	25	13.64	13.39	13.34	0	
	1	49	13.47	13.34	13.37	0	
	25	0	13.50	13.37	13.41	0-3	0
25	12	13.50	13.21	13.36	0		
25	25	13.40	13.22	13.37	0		
	50	0	13.46	13.23	13.34		0

Table 8-162
LTE Band 66 Conducted Powers Ant 3A - 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	13.56	13.71	13.37	0	0
	1	12	13.63	13.59	13.35		0
	1	24	13.73	13.61	13.34		0
	12	0	13.59	13.51	13.42	0-1	0
	12	6	13.59	13.44	13.41		0
	12	13	13.58	13.44	13.39		0
16QAM	25	0	13.53	13.46	13.41	0-1	0
	1	0	13.33	13.54	13.53		0
	1	12	13.40	13.49	13.39		0
	1	24	13.50	13.77	13.41	0-2	0
	12	0	13.31	13.28	13.19		0
	12	6	13.23	13.23	13.10		0
64QAM	12	13	13.28	13.16	13.10	0-2	0
	25	0	13.19	13.14	13.07		0
	1	0	13.72	13.32	13.24	0-2	0
	1	12	13.53	13.35	13.48		0
	1	24	13.42	13.29	13.48	0-3	0
	12	0	13.24	13.16	13.17		0
12	6	13.26	13.16	13.08	0		
12	13	13.35	13.12	13.06	0		
	25	0	13.18	13.13	13.03		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 130 of 293

Table 8-163
LTE Band 66 Conducted Powers Ant 3A - 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	13.34	13.49	13.24	0	0
	1	7	13.47	13.56	13.28		0
	1	14	13.39	13.48	13.18		0
	8	0	13.46	13.46	13.28	0-1	0
	8	4	13.47	13.42	13.23		0
	8	7	13.42	13.37	13.23		0
16QAM	15	0	13.40	13.39	13.29	0-1	0
	1	0	13.33	13.53	13.27		0
	1	7	13.44	13.55	13.40		0
	1	14	13.49	13.39	13.20	0-2	0
	8	0	13.22	13.17	12.94		0
	8	4	13.16	13.14	12.94		0
64QAM	8	7	13.20	13.09	12.90	0-2	0
	15	0	13.16	13.06	12.90		0
	1	0	13.49	13.41	13.25		0-2
	1	7	13.28	13.34	13.14	0	
	1	14	13.47	13.37	13.13	0-3	
	8	0	13.09	13.13	13.03		0
8	4	13.14	13.13	13.02	0		
64QAM	8	7	13.09	13.11	13.02	0-3	0
	15	0	13.16	13.11	12.91		0

Table 8-164
LTE Band 66 Conducted Powers Ant 3A - 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	13.33	13.45	13.31	0	0
	1	2	13.37	13.43	13.30		0
	1	5	13.38	13.44	13.27		0
	3	0	13.32	13.37	13.19		0
	3	2	13.37	13.34	13.18		0
	3	3	13.40	13.35	13.16		0
	6	0	13.35	13.32	13.18	0-1	0
16QAM	1	0	13.46	13.55	13.41	0-1	0
	1	2	13.50	13.54	13.30		0
	1	5	13.34	13.57	13.35		0
	3	0	13.23	13.27	13.04		0
	3	2	13.22	13.18	13.06		0
	3	3	13.24	13.15	13.00		0
	6	0	13.20	13.10	13.00	0-2	0
64QAM	1	0	13.35	13.47	13.49	0-2	0
	1	2	13.41	13.33	13.44		0
	1	5	13.43	13.45	13.41		0
	3	0	13.15	13.10	13.27		0
	3	2	13.23	13.11	13.18		0
	3	3	13.24	13.13	13.21		0
	6	0	13.16	13.06	13.05	0-3	3

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 131 of 293

Table 8-165
LTE Band 66 Conducted Powers Ant 3A - 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	10.84	10.87	10.79	0	0	
	1	50	10.70	10.67	10.90		0	
	1	99	10.76	10.70	10.70		0	
	50	0	10.81	10.78	10.96	0-1	0	
	50	25	10.78	10.68	10.92		0	
	50	50	10.73	10.83	10.83		0	
16QAM	100	0	10.79	10.66	10.88	0-1	0	
	1	0	10.41	10.64	10.49		0	
	1	50	10.11	10.72	10.57		0	
	1	99	10.28	10.65	10.35		0-2	0
	50	0	10.21	10.40	10.45			0
	50	25	10.20	10.42	10.41			0
50	50	10.17	10.48	10.29	0			
64QAM	100	0	10.24	10.32	10.34	0-2	0	
	1	0	10.37	10.50	10.77		0-2	0
	1	50	10.10	10.60	10.92			0
	1	99	10.25	10.48	10.78		0-3	0
	50	0	10.23	10.38	10.45			0
	50	25	10.20	10.37	10.40			0
50	50	10.17	10.46	10.27	0			
100	0	10.23	10.32	10.37	0			

Table 8-166
LTE Band 66 Conducted Powers Ant 3A - 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	10.75	11.06	10.92	0	0
	1	36	10.67	10.93	10.94		0
	1	74	10.68	11.10	10.73		0
	36	0	10.83	10.78	11.04	0-1	0
	36	18	10.83	10.84	11.04		0
	36	37	10.86	10.96	10.91		0
	75	0	10.83	10.83	10.96		0
16QAM	1	0	10.62	10.75	10.63	0-1	0
	1	36	10.50	10.58	10.63		0
	1	74	10.52	10.60	10.55		0
	36	0	10.29	10.38	10.39	0-2	0
	36	18	10.30	10.31	10.44		0
	36	37	10.35	10.38	10.40		0
	75	0	10.31	10.30	10.39		0
64QAM	1	0	10.46	10.65	10.41	0-2	0
	1	36	10.36	10.40	10.58		0
	1	74	10.39	10.43	10.58		0
	36	0	10.31	10.36	10.44	0-3	0
	36	18	10.43	10.31	10.48		0
	36	37	10.45	10.36	10.42		0
	75	0	10.44	10.30	10.38		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 132 of 293

Table 8-167
LTE Band 66 Conducted Powers Ant 3A - 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	10.82	10.86	10.94	0	0
	1	25	10.65	10.78	10.78		0
	1	49	10.71	10.88	10.75		0
	25	0	10.89	10.84	10.89	0-1	0
	25	12	10.76	10.74	10.83		0
	25	25	10.76	10.93	10.84		0
16QAM	50	0	10.77	10.87	10.83		0
	1	0	10.41	10.65	10.82	0-1	0
	1	25	10.37	10.46	10.52		0
	1	49	10.39	10.42	10.58		0-2
	25	0	10.28	10.38	10.40	0	
	25	12	10.13	10.28	10.39	0	
64QAM	25	25	10.11	10.42	10.41	0-2	0
	50	0	10.11	10.35	10.40		0
	1	0	10.34	10.61	10.69		0-2
	1	25	10.03	10.32	10.43	0	
	1	49	10.10	10.40	10.62	0-3	
	25	0	10.23	10.40	10.44		0
25	12	10.10	10.32	10.40	0		
	25	25	10.06	10.45	10.47		0
	50	0	10.12	10.34	10.35		0

Table 8-168
LTE Band 66 Conducted Powers Ant 3A - 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	11.08	10.75	10.64	0	0
	1	12	11.08	10.75	10.60		0
	1	24	11.04	10.87	10.63		0
	12	0	10.94	10.63	10.66	0-1	0
	12	6	10.94	10.60	10.69		0
	12	13	10.86	10.74	10.67		0
16QAM	25	0	10.91	10.73	10.68	0-1	0
	1	0	10.58	10.40	10.67		0
	1	12	10.47	10.45	10.67		0
	1	24	10.69	10.50	10.65	0-2	0
	12	0	10.29	10.11	10.29		0
	12	6	10.28	10.13	10.28		0
64QAM	12	13	10.23	10.18	10.26	0-2	0
	25	0	10.23	10.17	10.27		0
	1	0	10.32	10.48	10.68		0-2
	1	12	10.36	10.47	10.53	0	
	1	24	10.22	10.51	10.71	0	
	64QAM	12	0	10.23	10.09	10.27	0-3
12		6	10.16	10.10	10.26	0	
12		13	10.12	10.26	10.26	0	
25		0	10.16	10.18	10.22	0	

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 133 of 293

Table 8-169

LTE Band 66 Conducted Powers Ant 3A - 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	10.79	10.57	10.54	0	0
	1	7	10.84	10.74	10.60		0
	1	14	10.82	10.68	10.59		0
	8	0	10.74	10.59	10.63	0-1	0
	8	4	10.76	10.70	10.62		0
	8	7	10.77	10.73	10.63		0
	15	0	10.74	10.73	10.61		0
16QAM	1	0	10.53	10.46	10.47	0-1	0
	1	7	10.51	10.67	10.46		0
	1	14	10.48	10.62	10.50		0
	8	0	10.22	10.24	10.07	0-2	0
	8	4	10.19	10.28	10.03		0
	8	7	10.17	10.27	10.08		0
	15	0	10.18	10.24	10.03		0
64QAM	1	0	10.54	10.49	10.25	0-2	0
	1	7	10.53	10.64	10.30		0
	1	14	10.38	10.42	10.28		0
	8	0	10.16	10.18	10.06	0-3	0
	8	4	10.17	10.23	10.11		0
	8	7	10.24	10.30	10.06		0
	15	0	10.16	10.23	10.04		0

Table 8-170

LTE Band 66 Conducted Powers Ant 3A - 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	10.86	10.59	10.86	0	0
	1	2	10.81	10.56	10.84		0
	1	5	10.85	10.69	10.93		0
	3	0	10.80	10.62	10.68		0
	3	2	10.76	10.73	10.66		0
	3	3	10.76	10.71	10.71		0
	6	0	10.78	10.69	10.60	0-1	0
16QAM	1	0	10.58	10.07	10.58	0-1	0
	1	2	10.56	10.29	10.56		0
	1	5	10.66	10.35	10.62		0
	3	0	10.36	10.11	10.29		0
	3	2	10.35	10.14	10.20		0
	3	3	10.34	10.14	10.38		0
	6	0	10.17	10.08	10.08	0-2	0
64QAM	1	0	10.50	10.35	10.60	0-2	0
	1	2	10.40	10.34	10.45		0
	1	5	10.46	10.39	10.46		0
	3	0	10.34	10.24	10.20		0
	3	2	10.38	10.32	10.16		0
	3	3	10.29	10.42	10.32		0
	6	0	10.15	10.02	10.09	0-3	0

FCC ID: BCGA2324	 PCTEST Proud to be part of element		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 134 of 293

8.3.9

LTE Band 2

Table 8-171
LTE Band 2 Conducted Powers Ant 4 - 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	15.86	15.80	15.67	0	0
	1	50	15.86	15.65	15.95		0
	1	99	15.87	15.78	16.00		0
	50	0	15.80	15.79	15.65	0-1	0
	50	25	15.81	15.66	15.90		0
	50	50	15.83	15.70	15.99		0
100	0	15.82	15.67	15.97	0		
16QAM	1	0	15.93	15.55	15.74	0-1	0
	1	50	15.75	15.64	15.98		0
	1	99	15.38	15.66	15.97		0
	50	0	15.61	15.38	15.77	0-2	0
	50	25	15.51	15.47	15.82		0
	50	50	15.35	15.40	15.76		0
100	0	15.47	15.38	15.78	0		
64QAM	1	0	15.89	15.61	15.77	0-2	0
	1	50	15.63	15.74	15.99		0
	1	99	15.48	15.82	15.96		0
	50	0	15.52	15.35	15.64	0-3	0
	50	25	15.45	15.44	15.85		0
	50	50	15.31	15.41	15.75		0
100	0	15.43	15.42	15.79	0		

Table 8-172
LTE Band 2 Conducted Powers Ant 4 - 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	15.53	15.34	15.58	0	0
	1	36	15.40	15.34	15.70		0
	1	74	15.20	15.30	15.61		0
	36	0	15.51	15.22	15.76	0-1	0
	36	18	15.49	15.34	15.78		0
	36	37	15.42	15.32	15.71		0
16QAM	75	0	15.48	15.39	15.75	0-1	0
	1	0	15.72	15.49	15.75		0
	1	36	15.62	15.47	15.71		0
	1	74	15.51	15.43	15.69	0-2	0
	36	0	15.55	15.25	15.82		0
	36	18	15.56	15.38	15.82		0
64QAM	36	37	15.49	15.41	15.75	0-2	0
	75	0	15.53	15.42	15.79		0
	1	0	16.00	15.53	15.95		0-2
	1	36	15.75	15.45	15.92	0	
	1	74	15.63	15.48	15.97	0	
	36	0	15.58	15.26	15.83	0-3	0
36	18	15.56	15.37	15.86	0		
36	37	15.49	15.39	15.79	0		
	75	0	15.53	15.42	15.78		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 135 of 293

Table 8-173
LTE Band 2 Conducted Powers Ant 4 - 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	15.62	15.42	15.68	0	0
	1	25	15.38	15.46	15.54		0
	1	49	15.31	15.43	15.58		0
	25	0	15.63	15.30	15.71	0-1	0
	25	12	15.49	15.34	15.64		0
	25	25	15.47	15.37	15.65		0
16QAM	50	0	15.52	15.39	15.68	0-1	0
	1	0	15.88	15.62	15.80		0
	1	25	15.58	15.60	15.60		0
	1	49	15.57	15.65	15.83	0-2	0
	25	0	15.73	15.34	15.76		0
	25	12	15.57	15.35	15.70		0
64QAM	25	25	15.55	15.41	15.66	0-2	0
	50	0	15.52	15.41	15.71		0
	1	0	15.99	15.46	15.90		0-2
	1	25	15.69	15.61	15.66	0	
	1	49	15.52	15.56	15.94	0-3	
	25	0	15.72	15.34	15.76		0
25	12	15.55	15.43	15.69	0		
64QAM	25	25	15.55	15.46	15.69	0-3	0
	50	0	15.51	15.43	15.71		0

Table 8-174
LTE Band 2 Conducted Powers Ant 4 - 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	15.54	15.29	15.79	0	0
	1	12	15.51	15.39	15.84		0
	1	24	15.44	15.40	15.86		0
	12	0	15.48	15.25	15.53	0-1	0
	12	6	15.47	15.26	15.58		0
	12	13	15.38	15.28	15.60		0
16QAM	25	0	15.45	15.32	15.60	0-1	0
	1	0	15.65	15.57	15.81		0
	1	12	15.63	15.44	15.92		0
	1	24	15.64	15.55	15.99	0-2	0
	12	0	15.41	15.28	15.58		0
	12	6	15.41	15.24	15.58		0
64QAM	12	13	15.41	15.33	15.62	0-2	0
	25	0	15.44	15.28	15.54		0
	1	0	15.76	15.68	15.86		0-2
	1	12	15.71	15.75	15.85	0	
	1	24	15.51	15.66	15.88	0	
	12	0	15.46	15.22	15.49	0-3	0
12	6	15.37	15.24	15.55	0		
12	13	15.28	15.30	15.63	0		
	25	0	15.40	15.32	15.55		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 136 of 293

Table 8-175
LTE Band 2 Conducted Powers Ant 4 - 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	15.44	15.29	15.58	0	0
	1	7	15.48	15.39	15.65		0
	1	14	15.42	15.29	15.49		0
	8	0	15.45	15.17	15.60	0-1	0
	8	4	15.44	15.21	15.59		0
	8	7	15.44	15.24	15.50		0
16QAM	15	0	15.47	15.24	15.60	0-1	0
	1	0	15.68	15.53	15.75		0
	1	7	15.73	15.72	15.98		0
	1	14	15.72	15.68	15.87	0-2	0
	8	0	15.51	15.17	15.56		0
	8	4	15.49	15.22	15.59		0
64QAM	8	7	15.47	15.25	15.48	0-2	0
	15	0	15.45	15.20	15.54		0
	1	0	15.83	15.50	15.99		0-2
	1	7	15.93	15.45	15.80	0	
	1	14	15.77	15.44	15.77	0-3	
	8	0	15.42	15.13	15.56		0
8	4	15.42	15.20	15.59	0		
8	7	15.41	15.18	15.54	0		
64QAM	15	0	15.42	15.20	15.58	0	

Table 8-176
LTE Band 2 Conducted Powers Ant 4 - 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	15.42	15.34	15.79	0	0
	1	2	15.40	15.32	15.65		0
	1	5	15.40	15.42	15.69		0
	3	0	15.40	15.20	15.51		0
	3	2	15.40	15.28	15.50		0
	3	3	15.40	15.28	15.47	0	
6	0	15.36	15.22	15.44	0-1	0	
16QAM	1	0	15.80	15.69	15.88	0-1	0
	1	2	15.67	15.72	15.74		0
	1	5	15.76	15.59	15.93		0
	3	0	15.45	15.33	15.65		0
	3	2	15.60	15.40	15.70		0
	3	3	15.49	15.37	15.70	0	
6	0	15.43	15.36	15.49	0-2	0	
64QAM	1	0	15.66	15.57	15.98	0-2	0
	1	2	15.86	15.42	15.82		0
	1	5	15.62	15.51	15.94		0
	3	0	15.51	15.34	15.67		0
	3	2	15.50	15.40	15.74		0
	3	3	15.53	15.36	15.69	0	
6	0	15.33	15.26	15.54	0-3	0	

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 137 of 293

Table 8-177
LTE Band 2 Conducted Powers Ant 4 - 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	12.65	12.42	12.40	0	0	
	1	50	12.54	12.64	12.66		0	
	1	99	12.44	12.40	12.50		0	
	50	0	12.57	12.38	12.55	0-1	0	
	50	25	12.50	12.66	12.82		0	
	50	50	12.26	12.67	12.72		0	
16QAM	100	0	12.44	12.62	12.65	0-1	0	
	1	0	12.64	12.08	12.44		0-1	0
	1	50	12.59	12.32	12.85			0
	1	99	12.42	12.07	12.66	0-2	0	
	50	0	12.34	12.09	12.32		0	
	50	25	12.28	12.34	12.63		0	
50	50	12.08	12.33	12.49	0			
64QAM	100	0	12.21	12.28	12.58	0-2	0	
	1	0	12.61	12.67	12.34		0-2	0
	1	50	12.49	12.88	12.75			0
	1	99	12.41	12.72	12.55	0-3	0	
	50	0	12.53	12.42	12.60		0	
	50	25	12.43	12.69	12.83		0	
50	50	12.22	12.67	12.69	0			
100	0	12.49	12.64	12.65	0			

Table 8-178
LTE Band 2 Conducted Powers Ant 4 - 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	12.68	12.47	12.46	0	0
	1	36	12.72	12.70	12.80		0
	1	74	12.40	12.56	12.51		0
	36	0	12.66	12.61	12.91	0-1	0
	36	18	12.65	12.70	12.88		0
	36	37	12.60	12.71	12.77		0
	75	0	12.60	12.75	12.85		0
16QAM	1	0	12.60	12.22	12.46	0-1	0
	1	36	12.58	12.50	12.74		0
	1	74	12.30	12.48	12.50		0
	36	0	12.47	12.35	12.63	0-2	0
	36	18	12.47	12.44	12.61		0
	36	37	12.38	12.41	12.52		0
	75	0	12.41	12.41	12.60		0
64QAM	1	0	12.63	12.20	12.45	0-2	0
	1	36	12.82	12.39	12.80		0
	1	74	12.39	12.45	12.49		0
	36	0	12.47	12.35	12.59	0-3	0
	36	18	12.48	12.44	12.61		0
	36	37	12.41	12.42	12.52		0
	75	0	12.42	12.41	12.61		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 138 of 293

Table 8-179
LTE Band 2 Conducted Powers Ant 4 - 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	12.76	12.47	12.65	0	0
	1	25	12.79	12.62	12.71		0
	1	49	12.80	12.61	12.59		0
	25	0	12.71	12.55	12.82	0-1	0
	25	12	12.72	12.57	12.78		0
	25	25	12.68	12.69	12.75		0
16QAM	50	0	12.68	12.67	12.77	0-1	0
	1	0	12.77	12.33	12.70		0
	1	25	12.66	12.53	12.58		0
	1	49	12.84	12.55	12.56	0-2	0
	25	0	12.53	12.41	12.61		0
	25	12	12.53	12.46	12.51		0
64QAM	25	25	12.50	12.51	12.46	0-2	0
	50	0	12.44	12.49	12.54		0
	1	0	12.61	12.65	12.70		0-2
	1	25	12.64	12.62	12.67	0	
	1	49	12.69	12.69	12.58	0	
	25	0	12.59	12.42	12.59	0-3	0
25	12	12.57	12.45	12.52	0		
25	25	12.55	12.52	12.43	0		
	50	0	12.44	12.46	12.52		0

Table 8-180
LTE Band 2 Conducted Powers Ant 4 - 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	12.73	12.47	12.89	0	0
	1	12	12.68	12.60	12.87		0
	1	24	12.75	12.64	12.72		0
	12	0	12.55	12.45	12.68	0-1	0
	12	6	12.57	12.46	12.68		0
	12	13	12.57	12.57	12.55		0
16QAM	25	0	12.59	12.57	12.66	0-1	0
	1	0	12.58	12.51	12.82		0
	1	12	12.53	12.55	12.54		0
	1	24	12.71	12.43	12.44	0-2	0
	12	0	12.29	12.24	12.42		0
	12	6	12.34	12.21	12.30		0
64QAM	12	13	12.28	12.23	12.16	0-2	0
	25	0	12.29	12.24	12.33		0
	1	0	12.73	12.43	12.72		0-2
	1	12	12.71	12.57	12.61	0	
	1	24	12.80	12.51	12.64	0-3	
	12	0	12.32	12.26	12.41		0
12	6	12.31	12.20	12.33	0		
64QAM	12	13	12.26	12.28	12.26	0-3	0
	25	0	12.33	12.24	12.23		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 139 of 293

Table 8-181
LTE Band 2 Conducted Powers Ant 4 - 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	12.73	12.38	12.57	0	0
	1	7	12.73	12.52	12.43		0
	1	14	12.69	12.48	12.33		0
	8	0	12.56	12.37	12.58	0-1	0
	8	4	12.54	12.45	12.43		0
	8	7	12.55	12.45	12.41		0
16QAM	15	0	12.54	12.48	12.45	0-1	0
	1	0	12.59	12.26	12.26		0
	1	7	12.59	12.41	12.19		0
	1	14	12.56	12.39	12.21	0-2	0
	8	0	12.12	12.18	12.13		0
	8	4	12.16	12.22	12.07		0
64QAM	8	7	12.14	12.22	12.04	0-2	0
	15	0	12.08	12.17	12.04		0
	1	0	12.33	12.30	12.42		0-2
	1	7	12.40	12.75	12.36	0	
	1	14	12.40	12.52	12.27	0-3	
	8	0	12.06	12.09	12.23		0
8	4	12.09	12.14	12.05	0		
8	7	12.12	12.14	12.08	0		
	15	0	12.10	12.16	12.08		0

Table 8-182
LTE Band 2 Conducted Powers Ant 4 - 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	12.77	12.41	12.50	0	0
	1	2	12.73	12.38	12.47		0
	1	5	12.78	12.48	12.50		0
	3	0	12.61	12.37	12.33		0
	3	2	12.51	12.44	12.33		0
	3	3	12.49	12.44	12.35		0
	6	0	12.50	12.41	12.28	0-1	0
16QAM	1	0	12.49	12.44	12.61	0-1	0
	1	2	12.50	12.47	12.61		0
	1	5	12.61	12.39	12.38		0
	3	0	12.42	12.34	12.15		0
	3	2	12.39	12.33	12.25		0
	3	3	12.36	12.32	12.27		0
	6	0	12.24	12.22	12.19	0-2	0
64QAM	1	0	12.68	12.36	12.40	0-2	0
	1	2	12.61	12.53	12.43		0
	1	5	12.46	12.64	12.40		0
	3	0	12.44	12.32	12.17		0
	3	2	12.37	12.28	12.30		0
	3	3	12.32	12.36	12.16		0
	6	0	12.16	12.17	12.11	0-3	0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 140 of 293

Table 8-183
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	14.39	13.98	14.22	0	0
	1	50	13.99	13.97	14.29		0
	1	99	14.09	13.99	14.34		0
	50	0	14.15	14.06	14.21	0-1	0
	50	25	13.99	14.07	14.34		0
	50	50	13.98	14.01	14.24		0
	100	0	13.99	14.05	14.33		0
16QAM	1	0	14.36	14.26	14.40	0-1	0
	1	50	14.17	14.24	14.33		0
	1	99	14.23	14.32	14.30		0
	50	0	14.10	14.08	14.23	0-2	0
	50	25	14.04	14.11	14.31		0
	50	50	14.09	14.04	14.25		0
	100	0	13.97	14.07	14.32		0
64QAM	1	0	14.36	14.29	14.36	0-2	0
	1	50	14.14	14.33	14.38		0
	1	99	14.25	14.25	14.37		0
	50	0	14.16	14.11	14.22	0-3	0
	50	25	14.04	14.19	14.28		0
	50	50	14.12	14.12	14.25		0
	100	0	13.99	14.13	14.32		0

Table 8-184
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	14.19	13.94	14.10	0	0
	1	36	14.28	14.01	14.14		0
	1	74	13.98	13.90	13.87		0
	36	0	14.00	14.06	14.29	0-1	0
	36	18	14.13	14.08	14.25		0
	36	37	13.94	14.10	14.10		0
	75	0	14.06	14.11	14.22		0
16QAM	1	0	14.35	14.08	14.14	0-1	0
	1	36	14.39	14.05	14.20		0
	1	74	14.17	14.12	14.09		0
	36	0	14.17	14.06	14.30	0-2	0
	36	18	14.31	14.08	14.27		0
	36	37	14.10	14.11	14.16		0
	75	0	14.24	14.13	14.24		0
64QAM	1	0	14.26	14.07	14.34	0-2	0
	1	36	14.37	14.06	14.38		0
	1	74	14.14	13.98	14.29		0
	36	0	14.10	14.08	14.30	0-3	0
	36	18	14.26	14.08	14.26		0
	36	37	14.00	14.09	14.16		0
	75	0	14.16	14.14	14.22		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 141 of 293

Table 8-185
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	14.04	13.96	14.21	0	0
	1	25	13.91	14.05	14.02		0
	1	49	13.99	14.11	13.92		0
	25	0	14.08	14.06	14.25	0-1	0
	25	12	13.98	14.08	14.13		0
	25	25	14.11	14.12	14.13		0
16QAM	50	0	14.01	14.15	14.15	0-1	0
	1	0	14.33	14.03	14.29		0
	1	25	14.15	14.07	14.18		0
	1	49	14.19	14.19	14.08	0-2	0
	25	0	14.18	14.09	14.22		0
	25	12	14.13	14.09	14.16		0
64QAM	25	25	14.23	14.12	14.16	0-2	0
	50	0	14.15	14.17	14.20		0
	1	0	14.30	14.26	14.37		0-2
	1	25	14.24	14.22	14.28	0	
	1	49	14.29	14.39	14.21	0	
	25	0	14.23	14.12	14.14	0-3	0
25	12	14.15	14.14	14.07	0		
25	25	14.28	14.21	14.11	0		
	50	0	14.20	14.23	14.09		0

Table 8-186
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	14.07	14.01	13.85	0	0	
	1	12	14.02	14.04	13.91		0	
	1	24	13.96	14.04	13.87		0	
	12	0	13.98	13.91	13.96	0-1	0	
	12	6	13.96	13.87	13.97		0	
	12	13	13.88	13.93	13.92		0	
16QAM	25	0	13.97	13.96	13.98	0-1	0	
	1	0	14.20	14.16	14.09		0	
	1	12	14.21	14.09	14.16		0	
	1	24	14.21	14.06	14.05	0-2	0	
	12	0	13.94	13.98	13.89		0	
	12	6	13.92	13.87	13.86		0	
64QAM	12	13	13.93	13.84	13.87	0-2	0	
	25	0	14.02	13.95	13.88		0	
	64QAM	1	0	14.16	14.21	14.34	0-2	0
		1	12	14.21	14.14	14.20		0
		1	24	14.22	14.34	14.24		0
		12	0	14.03	13.94	13.99	0-3	0
12		6	13.94	13.95	14.02	0		
12		13	13.97	14.02	13.98	0		
	25	0	13.94	14.04	13.98		0	

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 142 of 293

Table 8-187
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	13.85	13.95	13.80	0	0
	1	7	13.89	14.06	13.78		0
	1	14	13.84	13.98	13.72		0
	8	0	13.84	13.85	13.88	0-1	0
	8	4	13.83	13.89	13.80		0
	8	7	13.83	13.88	13.80		0
16QAM	15	0	13.87	13.91	13.86	0-1	0
	1	0	14.11	13.80	13.96		0
	1	7	14.25	14.13	14.07		0
	1	14	14.14	13.97	14.07	0-2	0
	8	0	13.97	13.82	13.80		0
	8	4	13.94	13.90	13.78		0
64QAM	8	7	13.93	13.92	13.75	0-2	0
	15	0	13.92	13.89	13.82		0
	1	0	14.08	14.23	14.32		0-2
	1	7	14.10	14.34	14.34	0	
	1	14	14.17	14.00	14.13	0-3	
	8	0	13.81	13.86	13.93		0
8	4	13.85	13.83	13.90	0		
8	7	13.88	13.88	13.86	0		
	15	0	13.80	13.85	13.85		0

Table 8-188
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	14.03	14.00	14.08	0	0
	1	2	14.01	13.93	14.01		0
	1	5	14.02	14.04	14.05		0
	3	0	13.99	13.81	13.83		0
	3	2	13.98	13.94	13.82		0
	3	3	13.95	13.91	13.82		0
	6	0	13.97	13.82	13.77	0-1	0
16QAM	1	0	14.21	14.09	14.32	0-1	0
	1	2	14.11	14.09	14.33		0
	1	5	14.15	14.25	14.14		0
	3	0	14.10	13.95	13.97		0
	3	2	14.00	14.06	13.96		0
	3	3	14.08	13.93	13.95		0
	6	0	13.97	13.93	13.82	0-2	0
64QAM	1	0	14.13	14.08	14.15	0-2	0
	1	2	14.20	14.00	14.20		0
	1	5	14.19	14.02	14.08		0
	3	0	14.03	13.86	13.85		0
	3	2	14.00	13.92	13.89		0
	3	3	13.92	13.91	13.93		0
	6	0	13.92	13.80	13.77	0-3	0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 143 of 293

Table 8-189

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	11.22	10.85	11.05	0	0
	1	50	10.93	11.17	11.35		0
	1	99	10.92	11.10	11.18		0
	50	0	11.17	10.97	11.27	0-1	0
	50	25	10.97	11.25	11.34		0
	50	50	10.89	11.22	11.37		0
	100	0	10.94	11.19	11.32		0
16QAM	1	0	11.28	10.97	10.80	0-1	0
	1	50	11.11	10.95	10.88		0
	1	99	11.12	10.64	10.67		0
	50	0	10.92	10.76	10.95	0-2	0
	50	25	10.82	10.85	10.91		0
	50	50	10.76	10.84	10.79		0
	100	0	10.73	10.85	10.89		0
64QAM	1	0	11.02	11.09	10.87	0-2	0
	1	50	10.79	11.10	11.03		0
	1	99	11.03	10.91	10.62		0
	50	0	10.93	10.72	10.93	0-3	0
	50	25	10.80	10.88	10.87		0
	50	50	10.72	10.85	10.81		0
	100	0	10.74	10.89	10.90		0

Table 8-190

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	11.31	11.23	11.19	0	0
	1	36	11.25	11.40	11.20		0
	1	74	10.84	11.27	11.05		0
	36	0	11.32	11.25	11.38	0-1	0
	36	18	11.17	11.33	11.30		0
	36	37	11.03	11.38	11.28		0
	75	0	11.12	11.34	11.31		0
16QAM	1	0	11.07	11.06	11.06	0-1	0
	1	36	11.06	11.33	11.26		0
	1	74	10.77	11.09	11.00		0
	36	0	10.84	10.92	11.03	0-2	0
	36	18	10.74	10.97	10.95		0
	36	37	10.59	11.01	10.87		0
	75	0	10.68	10.96	10.91		0
64QAM	1	0	11.13	11.04	11.07	0-2	0
	1	36	10.95	11.27	11.18		0
	1	74	10.70	10.89	10.88		0
	36	0	10.86	10.95	11.04	0-3	0
	36	18	10.78	11.00	11.01		0
	36	37	10.61	11.02	10.93		0
	75	0	10.67	10.95	10.91		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 144 of 293

Table 8-191
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	11.20	11.12	11.31	0	0
	1	25	11.28	11.19	11.34		0
	1	49	11.22	11.19	11.24		0
	25	0	11.37	11.23	11.30	0-1	0
	25	12	11.40	11.24	11.36		0
	25	25	11.34	11.31	11.32		0
16QAM	50	0	11.37	11.30	11.32	0-1	0
	1	0	11.23	10.90	11.23		0
	1	25	11.20	10.93	11.29		0
	25	0	10.97	10.80	10.99	0-2	0
	25	12	10.96	10.81	11.01		0
	25	25	10.92	10.87	10.97		0
64QAM	50	0	10.91	10.82	10.97	0-2	0
	1	0	11.16	10.88	11.13		0
	1	25	11.20	10.88	11.20		0
	1	49	11.30	10.90	11.07	0-3	0
	25	0	10.96	10.85	11.00		0
	25	12	10.92	10.86	11.06		0
	25	25	10.90	10.90	10.91		0
	50	0	10.92	10.85	10.96		0

Table 8-192
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	11.40	11.26	11.14	0	0
	1	12	11.37	11.35	10.96		0
	1	24	11.38	11.36	10.97		0
	12	0	11.36	11.30	11.15	0-1	0
	12	6	11.32	11.28	11.09		0
	12	13	11.33	11.37	11.02		0
16QAM	25	0	11.34	11.38	11.12	0-1	0
	1	0	11.32	10.96	11.11		0
	1	12	11.25	10.98	11.03		0
	1	24	11.10	11.13	11.08	0-2	0
	12	0	10.90	10.67	10.83		0
	12	6	10.92	10.66	10.72		0
64QAM	12	13	10.94	10.69	10.60	0-2	0
	25	0	10.88	10.72	10.69		0
	1	0	11.05	11.03	10.98		0-2
	1	12	11.13	11.01	11.11	0	
	1	24	11.15	10.99	11.05	0-3	
	12	0	10.89	10.64	10.77		0
12	6	10.87	10.64	10.67	0		
64QAM	12	13	10.93	10.82	10.60	0-3	0
	25	0	10.88	10.72	10.68		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 145 of 293

Table 8-193
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	11.24	10.95	10.93	0	0
	1	7	11.30	11.13	10.95		0
	1	14	11.20	11.05	10.87		0
	8	0	11.19	11.03	11.02	0-1	0
	8	4	11.21	11.14	10.96		0
	8	7	11.09	11.14	10.95		0
16QAM	15	0	11.20	11.14	10.98	0-1	0
	1	0	11.18	10.79	10.84		0
	1	7	11.26	10.93	10.89		0
	1	14	11.10	10.80	10.82	0-2	0
	8	0	10.70	10.57	10.46		0
	8	4	10.70	10.59	10.40		0
64QAM	8	7	10.69	10.65	10.36	0-2	0
	15	0	10.68	10.56	10.32		0
	1	0	10.96	10.62	10.67		0-2
	1	7	11.14	11.03	10.64	0	
	1	14	11.17	10.67	10.68	0-3	
	8	0	10.68	10.58	10.50		0
8	4	10.73	10.61	10.41	0		
64QAM	8	7	10.74	10.54	10.37	0-3	0
	15	0	10.66	10.54	10.33		0

Table 8-194
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	11.37	11.06	11.19	0	0
	1	2	11.31	11.04	11.17		0
	1	5	11.36	11.20	11.21		0
	3	0	11.34	11.09	11.00		0
	3	2	11.31	11.19	11.01		0
	3	3	11.31	11.23	11.07		0
	6	0	11.25	11.19	10.98	0-1	0
16QAM	1	0	10.58	10.66	10.90	0-1	0
	1	2	10.94	10.83	10.79		0
	1	5	11.01	10.86	10.85		0
	3	0	10.66	10.56	10.48		0
	3	2	10.57	10.72	10.54		0
	3	3	10.64	10.74	10.75		0
	6	0	10.58	10.63	10.34	0-2	0
64QAM	1	0	10.84	10.88	10.71	0-2	0
	1	2	11.19	10.76	10.84		0
	1	5	10.92	10.93	10.94		0
	3	0	10.83	10.82	10.41		0
	3	2	10.83	10.89	10.53		0
	3	3	10.87	10.85	10.70		0
	6	0	10.57	10.60	10.60	0-3	0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 146 of 293

Table 8-195
LTE Band 2 Conducted Powers Ant 1A - 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	14.00	14.12	14.24	0	0
	1	50	13.76	14.20	14.50		0
	1	99	13.89	14.22	14.20		0
	50	0	13.95	14.15	14.30	0-1	0
	50	25	13.86	14.05	14.41		0
	50	50	13.95	14.03	14.20		0
16QAM	100	0	13.84	14.05	14.40	0	
	1	0	14.48	14.09	14.20	0-1	0
	1	50	14.10	14.22	14.56		0
	1	99	14.34	14.23	14.36		0
	50	0	14.00	14.11	14.33	0-2	0
	50	25	13.92	14.14	14.50		0
50	50	13.99	14.11	14.37	0		
64QAM	100	0	13.89	14.06	14.50	0	
	1	0	14.24	14.47	14.21	0-2	0
	1	50	13.97	14.45	14.51		0
	1	99	14.21	14.52	14.37		0
	50	0	13.95	14.14	14.40	0-3	0
	50	25	13.91	14.12	14.48		0
50	50	14.02	14.11	14.30	0		
	100	0	13.90	14.12	14.50	0	

Table 8-196
LTE Band 2 Conducted Powers Ant 1A - 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	14.36	14.53	0	0
	1	36	14.20	14.38	14.49		0
	1	74	14.26	14.53	14.47		0
	36	0	14.38	14.39	14.54	0-1	0
	36	18	14.27	14.43	14.56		0
	36	37	14.28	14.45	14.53		0
	75	0	14.29	14.53	14.59		0
16QAM	1	0	14.03	13.78	14.31	0-1	0
	1	36	13.95	13.98	14.28		0
	1	74	14.13	14.06	14.58		0
	36	0	13.81	13.65	14.07	0-2	0
	36	18	13.70	13.65	14.11		0
	36	37	13.67	13.81	14.08		0
	75	0	13.71	13.76	14.13		0
64QAM	1	0	14.02	14.25	13.99	0-2	0
	1	36	13.83	13.86	14.16		0
	1	74	13.99	14.30	14.15		0
	36	0	13.69	13.83	13.95	0-3	0
	36	18	13.69	13.90	14.26		0
	36	37	13.75	13.69	13.96		0
	75	0	13.68	13.90	14.28		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 147 of 293

Table 8-197
LTE Band 2 Conducted Powers Ant 1A - 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	14.42	14.36	14.53	0	0
	1	25	14.25	14.38	14.49		0
	1	49	14.26	14.53	14.47		0
	25	0	14.38	14.39	14.54	0-1	0
	25	12	14.27	14.43	14.56		0
	25	25	14.28	14.45	14.53		0
	50	0	14.28	14.53	14.59		0
16QAM	1	0	14.03	13.78	14.31	0-1	0
	1	25	13.95	13.98	14.28		0
	1	49	14.13	14.06	14.58		0
	25	0	13.81	13.65	14.07	0-2	0
	25	12	13.70	13.65	14.11		0
	25	25	13.67	13.81	14.08		0
	50	0	13.71	13.76	14.13		0
64QAM	1	0	14.02	14.25	13.99	0-2	0
	1	25	13.83	13.86	14.16		0
	1	49	13.99	14.30	14.15		0
	25	0	13.69	13.83	13.95	0-3	0
	25	12	13.69	13.90	14.26		0
	25	25	13.75	13.69	13.96		0
	50	0	13.68	13.90	14.28		0

Table 8-198
LTE Band 2 Conducted Powers Ant 1A - 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	14.40	14.37	14.53	0	0
	1	12	14.20	14.46	14.41		0
	1	24	14.30	14.56	14.45		0
	12	0	14.36	14.26	14.47	0-1	0
	12	6	14.33	14.23	14.43		0
	12	13	14.21	14.28	14.38		0
	25	0	14.32	14.29	14.39		0
16QAM	1	0	14.44	14.05	14.17	0-1	0
	1	12	14.19	14.00	14.12		0
	1	24	14.23	14.26	14.14		0
	12	0	13.87	13.73	13.87	0-2	0
	12	6	13.89	13.74	13.81		0
	12	13	13.77	13.80	13.77		0
	25	0	13.88	13.71	13.83		0
64QAM	1	0	13.91	14.14	13.88	0-2	0
	1	12	13.83	13.86	14.16		0
	1	24	13.88	14.19	14.04		0
	12	0	13.69	13.73	13.95	0-3	0
	12	6	13.68	13.79	14.15		0
	12	13	13.75	13.69	13.96		0
	25	0	13.77	13.79	14.17		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 148 of 293

Table 8-199
LTE Band 2 Conducted Powers Ant 1A - 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	14.40	14.30	14.31	0	0
	1	7	14.23	14.39	14.33		0
	1	14	14.35	14.41	14.31		0
	8	0	14.40	14.19	14.40	0-1	0
	8	4	14.27	14.27	14.35		0
	8	7	14.34	14.25	14.39		0
16QAM	15	0	14.32	14.27	14.37		0
	1	0	14.45	14.33	14.58	0-1	0
	1	7	14.56	14.38	14.56		0
	1	14	14.11	14.53	14.46	0-2	0
	8	0	14.05	13.85	14.09		0
	8	4	14.11	14.01	14.13		0
8	7	14.07	13.94	14.08	0		
64QAM	15	0	14.01	13.91	14.07		0
	1	0	13.80	14.03	13.77	0-2	0
	1	7	14.07	13.88	14.00		0
	1	14	13.77	14.08	13.93		0
	8	0	13.75	13.61	13.75	0-3	0
	8	4	13.74	13.68	14.04		0
8	7	13.65	13.68	13.65	0		
15	0	13.64	13.68	14.06	0		

Table 8-200
LTE Band 2 Conducted Powers Ant 1A - 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	14.47	14.26	14.58	0	0
	1	2	14.24	14.23	14.56		0
	1	5	14.36	14.32	14.60		0
	3	0	14.35	14.15	14.38		0
	3	2	14.34	14.18	14.38		0
	3	3	14.44	14.24	14.42	0	
	6	0	14.32	14.17	14.34	0-1	0
16QAM	1	0	14.40	14.18	14.25	0-1	0
	1	2	14.27	14.38	14.46		0
	1	5	14.41	14.40	14.36		0
	3	0	14.32	14.00	14.23		0
	3	2	14.19	14.08	14.23		0
	3	3	14.21	14.12	14.15	0	
	6	0	14.15	13.90	14.08	0-2	0
64QAM	1	0	13.69	13.92	13.66	0-2	0
	1	2	14.44	14.26	14.44		0
	1	5	13.66	13.97	13.82		0
	3	0	13.93	13.73	13.97		0
	3	2	13.63	13.67	13.93		0
	3	3	13.95	13.82	13.96	0	
	6	0	13.75	13.75	13.95	0-3	0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 149 of 293

Table 8-201
LTE Band 2 Conducted Powers Ant 1A - 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	11.16	11.08	10.92	0	0
	1	50	10.86	11.15	11.33		0
	1	99	10.92	11.05	11.24		0
	50	0	11.11	11.11	11.23	0-1	0
	50	25	10.93	11.10	11.45		0
	50	50	11.04	10.92	11.37		0
	100	0	10.88	11.01	11.32		0
16QAM	1	0	11.14	11.08	11.14	0-1	0
	1	50	11.00	11.10	11.40		0
	1	99	11.04	10.96	11.50		0
	50	0	10.99	10.80	10.86	0-2	0
	50	25	10.94	10.85	10.99		0
	50	50	10.90	10.94	10.97		0
	100	0	10.89	10.87	11.00		0
64QAM	1	0	10.84	10.76	11.15	0-2	0
	1	50	10.79	10.78	11.25		0
	1	99	10.72	11.00	11.26		0
	50	0	10.73	10.72	10.74	0-3	0
	50	25	10.71	10.77	10.91		0
	50	50	10.64	10.82	11.01		0
	100	0	10.60	10.80	10.90		0

Table 8-202
LTE Band 2 Conducted Powers Ant 1A - 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	10.95	11.02	0	0
	1	36	11.22	10.88	11.23		0
	1	74	11.26	10.91	11.33		0
	36	0	11.11	11.06	11.27	0-1	0
	36	18	10.98	11.07	11.30		0
	36	37	10.95	11.07	11.28		0
	75	0	10.95	11.13	11.33		0
16QAM	1	0	11.43	11.34	11.26	0-1	0
	1	36	11.41	11.25	11.58		0
	1	74	11.46	11.40	11.56		0
	36	0	11.13	11.15	11.24	0-2	0
	36	18	11.10	11.20	11.28		0
	36	37	11.14	11.25	11.30		0
	75	0	11.06	11.27	11.31		0
64QAM	1	0	11.33	11.20	11.30	0-2	0
	1	36	11.11	11.20	11.43		0
	1	74	11.17	11.41	11.54		0
	36	0	11.12	11.02	11.08	0-3	0
	36	18	11.09	11.23	11.36		0
	36	37	11.12	11.24	11.40		0
	75	0	11.03	11.25	11.33		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 150 of 293

Table 8-203
LTE Band 2 Conducted Powers Ant 1A - 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	11.05	10.88	11.26	0	0
	1	25	10.88	10.89	11.42		0
	1	49	11.00	11.02	11.43		0
	25	0	11.13	10.97	11.33	0-1	0
	25	12	11.01	11.00	11.43		0
	25	25	10.95	11.13	11.35		0
16QAM	50	0	10.94	11.09	11.33	0-1	0
	1	0	11.23	10.99	11.34		0
	1	25	11.03	10.92	11.56		0
	1	49	11.28	11.13	11.58	0-2	0
	25	0	10.97	10.78	11.07		0
	25	12	10.89	10.84	11.17		0
64QAM	25	25	10.74	10.91	11.04	0-2	0
	50	0	10.84	10.89	11.09		0
	1	0	11.26	11.08	11.22		0-2
	1	25	11.06	10.95	11.38	0	
	1	49	11.13	11.10	11.31	0	
	25	0	11.08	10.78	11.05	0-3	0
25	12	11.00	10.86	11.11	0		
25	25	10.81	10.99	10.99	0		
50	0	10.90	11.00	11.04		0	

Table 8-204
LTE Band 2 Conducted Powers Ant 1A - 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	11.06	10.95	11.30	0	0
	1	12	10.98	10.97	11.18		0
	1	24	10.82	11.12	11.24		0
	12	0	10.99	10.91	11.26	0-1	0
	12	6	10.91	10.87	11.13		0
	12	13	10.79	10.92	11.09		0
16QAM	25	0	10.93	10.94	11.13	0-1	0
	1	0	11.36	11.21	11.60		0
	1	12	11.26	11.43	11.50		0
	1	24	11.06	11.44	11.53	0-2	0
	12	0	11.02	10.90	11.23		0
	12	6	11.02	10.81	11.21		0
64QAM	12	13	10.91	10.90	11.19	0-2	0
	25	0	11.02	10.86	11.22		0
	1	0	11.33	10.85	11.60		0-2
	1	12	11.20	10.96	11.58	0	
	1	24	11.15	11.16	11.60	0	
	12	0	10.96	10.89	11.19	0-3	0
12	6	10.91	10.83	11.07	0		
12	13	10.79	10.87	11.16	0		
	25	0	10.92	10.89	11.08		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 151 of 293

Table 8-205
LTE Band 2 Conducted Powers Ant 1A - 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	11.02	10.81	10.98	0	0
	1	7	11.05	10.88	11.00		0
	1	14	10.97	10.85	11.02		0
	8	0	11.06	10.76	11.06	0-1	0
	8	4	11.03	10.77	11.02		0
	8	7	11.03	10.79	11.08		0
16QAM	15	0	11.05	10.81	11.04	0-1	0
	1	0	11.24	11.13	11.48		0
	1	7	11.42	11.09	11.60		0
	1	14	11.38	11.13	11.58	0-2	0
	8	0	11.07	10.72	11.09		0
	8	4	11.04	10.78	11.09		0
64QAM	8	7	11.03	10.79	11.10	0-2	0
	15	0	11.00	10.77	11.09		0
	1	0	11.29	10.92	11.43		0-2
	1	7	11.25	11.03	11.50	0	
	1	14	11.08	10.88	11.34	0-3	
	8	0	11.02	10.69	11.13		0
8	4	11.04	10.74	11.10	0		
8	7	11.02	10.72	11.07	0		
	15	0	10.95	10.67	10.99		0

Table 8-206
LTE Band 2 Conducted Powers Ant 1A - 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	11.02	10.91	11.33	0	0
	1	2	10.98	10.87	11.33		0
	1	5	11.02	10.95	11.39		0
	3	0	11.05	10.85	11.08		0
	3	2	11.04	10.88	11.14		0
	3	3	11.04	10.88	11.15	0	
	6	0	10.99	10.86	11.07	0-1	0
16QAM	1	0	11.35	11.10	11.46	0-1	0
	1	2	11.41	10.99	11.35		0
	1	5	11.48	11.06	11.57		0
	3	0	11.23	10.82	11.14		0
	3	2	11.27	10.82	11.14		0
	3	3	11.23	10.83	11.21	0	
	6	0	11.15	10.65	11.08	0-2	0
64QAM	1	0	11.27	11.09	11.56	0-2	0
	1	2	11.21	11.05	11.45		0
	1	5	11.15	11.17	11.45		0
	3	0	11.08	10.98	11.16		0
	3	2	11.16	10.99	11.37		0
	3	3	11.10	11.00	11.37	0	
	6	0	11.04	10.85	11.12	0-3	0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 152 of 293

Table 8-207
LTE Band 2 Conducted Powers Ant 3A - 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	14.42	14.32	14.46	0	0
	1	50	14.19	14.31	14.58		0
	1	99	14.36	14.35	14.52		0
	50	0	14.30	14.26	14.54	0-1	0
	50	25	14.29	14.41	14.60		0
	50	50	14.33	14.34	14.40		0
	100	0	14.28	14.42	14.56		0
16QAM	1	0	14.36	14.38	14.47	0-1	0
	1	50	14.28	14.26	14.50		0
	1	99	14.34	14.25	14.45		0
	50	0	14.12	14.08	14.34	0-2	0
	50	25	14.11	14.20	14.37		0
	50	50	14.14	14.09	14.18		0
	100	0	14.09	14.19	14.36		0
64QAM	1	0	14.27	14.29	14.35	0-2	0
	1	50	14.26	14.26	14.42		0
	1	99	14.23	14.29	14.41		0
	50	0	14.06	14.08	14.32	0-3	0
	50	25	14.05	14.21	14.39		0
	50	50	14.13	14.12	14.20		0
	100	0	14.04	14.20	14.38		0

Table 8-208
LTE Band 2 Conducted Powers Ant 3A - 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	14.30	14.17	14.28	0	0
	1	36	14.18	14.23	14.43		0
	1	74	14.07	14.18	14.27		0
	36	0	14.17	14.31	14.24	0-1	0
	36	18	14.23	14.33	14.35		0
	36	37	14.20	14.30	14.22		0
	75	0	14.22	14.30	14.36		0
16QAM	1	0	14.37	14.54	14.46	0-1	0
	1	36	14.39	14.51	14.60		0
	1	74	14.50	14.51	14.47		0
	36	0	14.15	14.30	14.33	0-2	0
	36	18	14.25	14.31	14.43		0
	36	37	14.26	14.31	14.30		0
	75	0	14.23	14.31	14.39		0
64QAM	1	0	14.32	14.29	14.23	0-2	0
	1	36	14.14	14.45	14.45		0
	1	74	14.17	14.23	14.38		0
	36	0	14.12	14.32	14.23	0-3	0
	36	18	14.22	14.33	14.38		0
	36	37	14.17	14.25	14.24		0
	75	0	14.17	14.23	14.34		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 153 of 293

Table 8-209
LTE Band 2 Conducted Powers Ant 3A - 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	14.22	14.17	14.27	0	0
	1	25	14.10	14.23	14.20		0
	1	49	14.22	14.23	14.09		0
	25	0	14.22	14.31	14.37	0-1	0
	25	12	14.16	14.28	14.31		0
	25	25	14.26	14.28	14.25		0
16QAM	50	0	14.17	14.29	14.32	0-1	0
	1	0	14.54	14.41	14.59		0
	1	25	14.26	14.42	14.60		0
	1	49	14.44	14.42	14.59	0-2	0
	25	0	14.28	14.32	14.37		0
	25	12	14.20	14.30	14.30		0
64QAM	25	25	14.31	14.31	14.25	0-2	0
	50	0	14.19	14.31	14.32		0
	1	0	14.60	14.50	14.49		0-2
	1	25	14.37	14.46	14.45	0	
	1	49	14.51	14.42	14.38	0-3	
	25	0	14.27	14.29	14.37		0
25	12	14.21	14.27	14.32	0		
64QAM	25	25	14.22	14.24	14.25	0-3	0
	50	0	14.14	14.22	14.28		0

Table 8-210
LTE Band 2 Conducted Powers Ant 3A - 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	14.30	14.33	14.42	0	0
	1	12	14.25	14.28	14.33		0
	1	24	14.24	14.32	14.27		0
	12	0	14.21	14.16	14.35	0-1	0
	12	6	14.14	14.14	14.34		0
	12	13	14.07	14.16	14.25		0
16QAM	25	0	14.11	14.14	14.15	0-1	0
	1	0	14.45	14.53	14.40		0
	1	12	14.42	14.42	14.44		0
	1	24	14.46	14.47	14.34	0-2	0
	12	0	14.17	14.14	14.12		0
	12	6	14.12	14.12	14.10		0
64QAM	12	13	14.09	14.14	14.02	0-2	0
	25	0	14.11	14.11	14.08		0
	1	0	14.55	14.46	14.52		0-2
	1	12	14.31	14.42	14.50	0	
	1	24	14.27	14.39	14.42	0-3	
	12	0	14.24	14.18	14.23		0
12	6	14.17	14.08	14.24	0		
64QAM	12	13	14.08	14.10	14.16	0-3	0
	25	0	14.14	14.08	14.15		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 154 of 293

Table 8-211
LTE Band 2 Conducted Powers Ant 3A - 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	14.13	14.17	14.22	0	0
	1	7	14.17	14.22	14.17		0
	1	14	14.13	14.17	14.13		0
	8	0	14.11	14.07	14.30	0-1	0
	8	4	14.10	14.07	14.21		0
	8	7	14.11	14.07	14.21		0
16QAM	15	0	14.12	14.08	14.25	0-1	0
	1	0	14.19	14.31	14.55		0
	1	7	14.39	14.33	14.45		0
	1	14	14.21	14.36	14.51	0-2	0
	8	0	14.00	13.97	14.31		0
	8	4	14.03	13.99	14.22		0
64QAM	8	7	14.04	13.98	14.23	0-2	0
	15	0	13.98	13.96	14.24		0
	1	0	14.45	14.17	14.41	0-2	0
	1	7	14.36	14.25	14.43		0
	1	14	14.40	14.26	14.35	0-3	0
	8	0	14.03	14.00	14.10		0
8	4	14.02	14.01	14.11	0		
8	7	14.01	14.00	14.08	0		
	15	0	14.00	14.00	14.06		0

Table 8-212
LTE Band 2 Conducted Powers Ant 3A - 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	14.22	14.21	14.46	0	0
	1	2	14.22	14.19	14.44		0
	1	5	14.25	14.20	14.47		0
	3	0	14.21	14.11	14.26		0
	3	2	14.20	14.12	14.27		0
	3	3	14.19	14.10	14.28		0
	6	0	14.17	14.08	14.20	0-1	0
16QAM	1	0	14.24	14.29	14.41	0-1	0
	1	2	14.34	14.42	14.47		0
	1	5	14.33	14.37	14.52		0
	3	0	14.16	14.11	14.21		0
	3	2	14.12	14.08	14.20		0
	3	3	14.09	14.06	14.21		0
	6	0	14.09	13.98	14.18	0-2	0
64QAM	1	0	14.37	14.19	14.41	0-2	0
	1	2	14.43	14.44	14.43		0
	1	5	14.53	14.25	14.39		0
	3	0	14.12	14.07	14.16		0
	3	2	14.03	14.03	14.09		0
	3	3	14.08	14.07	14.08		0
	6	0	14.02	14.00	14.08	0-3	0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 155 of 293

Table 8-213

LTE Band 2 Conducted Powers Ant 3A - 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	11.23	11.36	11.08	0	0
	1	50	11.05	11.24	11.37		0
	1	99	11.15	10.99	11.01		0
	50	0	10.99	11.22	11.30	0-1	0
	50	25	10.88	11.23	11.53		0
	50	50	11.09	11.19	11.37		0
	100	0	10.99	11.15	11.36		0
16QAM	1	0	11.38	11.37	11.07	0-1	0
	1	50	11.42	11.34	11.52		0
	1	99	11.60	11.07	11.42		0
	50	0	11.06	11.27	11.17	0-2	0
	50	25	11.08	11.24	11.54		0
	50	50	11.24	11.17	11.45		0
	100	0	11.00	11.24	11.49		0
64QAM	1	0	10.99	11.24	11.36	0-2	0
	1	50	10.86	11.04	11.60		0
	1	99	11.06	10.83	11.25		0
	50	0	10.93	10.99	11.08	0-3	0
	50	25	10.81	10.97	11.25		0
	50	50	10.88	10.85	11.08		0
	100	0	10.86	10.93	11.27		0

Table 8-214

LTE Band 2 Conducted Powers Ant 3A - 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	11.26	11.12	11.47	0	0
	1	36	11.10	11.34	11.60		0
	1	74	10.98	11.12	11.31		0
	36	0	11.28	11.36	11.53	0-1	0
	36	18	11.10	11.42	11.49		0
	36	37	11.06	11.37	11.41		0
	75	0	11.04	11.35	11.49		0
16QAM	1	0	11.14	11.14	11.36	0-1	0
	1	36	11.03	11.33	11.54		0
	1	74	11.14	11.16	11.37		0
	36	0	11.05	11.08	11.25	0-2	0
	36	18	10.85	11.18	11.31		0
	36	37	10.86	11.17	11.20		0
	75	0	10.78	11.10	11.28		0
64QAM	1	0	11.27	11.14	11.19	0-2	0
	1	36	11.13	11.17	11.45		0
	1	74	11.06	10.99	11.18		0
	36	0	11.02	11.10	11.24	0-3	0
	36	18	10.87	11.20	11.31		0
	36	37	10.85	11.18	11.25		0
	75	0	10.77	11.07	11.31		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 156 of 293

Table 8-215
LTE Band 2 Conducted Powers Ant 3A - 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	11.15	11.25	11.52	0	0
	1	25	11.05	11.35	11.40		0
	1	49	11.01	11.41	11.21		0
	25	0	11.23	11.43	11.57	0-1	0
	25	12	11.22	11.48	11.48		0
	25	25	11.12	11.48	11.27		0
16QAM	50	0	11.08	11.42	11.42		0
	1	0	11.22	11.37	11.52	0-1	0
	1	25	11.09	11.51	11.51		0
	1	49	11.06	11.18	11.28		
	25	0	10.98	11.25	11.41	0-2	0
	25	12	11.00	11.26	11.42		0
	25	25	10.87	11.19	11.29		0
64QAM	50	0	10.87	11.16	11.30		0
	1	0	11.17	11.40	11.52	0-2	0
	1	25	11.01	11.32	11.37		0
	1	49	11.19	11.17	11.52		
	25	0	11.01	11.24	11.42	0-3	0
	25	12	10.99	11.26	11.34		0
	25	25	10.88	11.16	11.18		0
	50	0	10.87	11.16	11.26		0

Table 8-216
LTE Band 2 Conducted Powers Ant 3A - 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	11.34	11.31	11.30	0	0
	1	12	11.30	11.30	11.00		0
	1	24	11.22	11.34	11.03		0
	12	0	11.15	11.27	11.27	0-1	0
	12	6	11.13	11.30	11.14		0
	12	13	11.17	11.27	11.05		0
	25	0	11.17	11.25	11.14		0
16QAM	1	0	11.35	11.17	11.49	0-1	0
	1	12	11.47	11.19	11.13		0
	1	24	11.40	11.32	11.18		0
	12	0	10.92	10.92	11.00	0-2	0
	12	6	10.87	10.93	10.87		0
	12	13	10.94	10.91	10.69		0
	25	0	10.87	10.92	10.84		0
64QAM	1	0	11.28	11.14	11.49	0-2	0
	1	12	11.15	11.29	11.33		0
	1	24	10.94	11.20	11.20		0
	12	0	10.94	10.97	10.94	0-3	0
	12	6	10.90	10.93	10.83		0
	12	13	10.88	10.85	10.68		0
	25	0	10.87	10.84	10.88		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 157 of 293

Table 8-217
LTE Band 2 Conducted Powers Ant 3A - 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	10.96	11.04	11.00	0	0
	1	7	11.03	11.07	11.02		0
	1	14	11.03	10.99	11.00		0
	8	0	11.05	11.13	10.96	0-1	0
	8	4	11.03	11.08	10.90		0
	8	7	11.00	11.12	10.95		0
16QAM	15	0	11.05	11.10	10.93	0-1	0
	1	0	11.35	11.15	11.18		0
	1	7	11.29	11.15	11.11		0
	1	14	11.34	11.26	11.02	0-2	0
	8	0	10.90	10.91	10.78		0
	8	4	10.79	10.89	10.73		0
64QAM	8	7	10.82	10.90	10.68	0-2	0
	15	0	10.82	10.83	10.66		0
	1	0	11.35	11.25	10.91		0-2
	1	7	11.20	11.33	10.98	0	
	1	14	11.10	11.03	11.00	0-3	
	8	0	10.92	10.96	10.73		0
8	4	10.90	10.79	10.69	0		
	8	7	10.83	10.88	10.78		0
	15	0	10.85	10.80	10.58		0

Table 8-218
LTE Band 2 Conducted Powers Ant 3A - 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	11.18	11.25	11.09	0	0
	1	2	11.18	11.26	11.16		0
	1	5	11.18	11.25	11.14		0
	3	0	11.13	11.32	10.97		0
	3	2	11.15	11.25	10.98		0
	3	3	11.15	11.28	11.00	0	
6	0	11.08	11.18	10.95	0-1	0	
16QAM	1	0	11.14	11.59	11.22	0-1	0
	1	2	11.32	11.47	11.18		0
	1	5	11.24	11.33	11.25		0
	3	0	11.01	11.26	10.95		0
	3	2	11.01	11.23	10.93		0
	3	3	11.06	11.19	10.89	0	
6	0	10.87	11.15	10.88	0-2	0	
64QAM	1	0	11.05	11.60	10.94	0-2	0
	1	2	11.12	11.34	11.21		0
	1	5	11.06	11.48	11.13		0
	3	0	11.01	11.35	10.91		0
	3	2	10.96	11.20	10.94		0
	3	3	11.04	11.13	10.86	0	
6	0	10.86	11.08	10.87	0-3	0	

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 158 of 293

8.3.10

LTE Band 25

Table 8-219
LTE Band 25 Conducted Powers Ant 4 - 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	15.71	15.41	15.87	0	0
	1	50	15.47	15.44	15.88		0
	1	99	15.43	15.47	15.75		0
	50	0	15.61	15.54	15.91	0-1	0
	50	25	15.50	15.53	15.75		0
	50	50	15.46	15.48	15.65		0
	100	0	15.51	15.53	15.74		0
16QAM	1	0	15.79	15.43	15.64	0-1	0
	1	50	15.55	15.47	15.48		0
	1	99	15.71	15.66	15.62		0
	50	0	15.44	15.37	15.38	0-2	0
	50	25	15.31	15.42	15.42		0
	50	50	15.30	15.45	15.48		0
	100	0	15.22	15.42	15.43		0
64QAM	1	0	15.94	15.57	15.83	0-2	0
	1	50	15.84	15.52	15.94		0
	1	99	15.54	15.77	15.99		0
	50	0	15.63	15.35	15.82	0-3	0
	50	25	15.56	15.45	15.81		0
	50	50	15.38	15.39	15.79		0
	100	0	15.53	15.36	15.82		0

Table 8-220
LTE Band 25 Conducted Powers Ant 4 - 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	15.55	15.26	15.71	0	0
	1	36	15.41	15.33	15.72		0
	1	74	15.19	15.40	15.39		0
	36	0	15.44	15.29	15.76	0-1	0
	36	18	15.40	15.33	15.75		0
	36	37	15.34	15.30	15.60		0
	75	0	15.39	15.34	15.74		0
16QAM	1	0	15.81	15.35	15.73	0-1	0
	1	36	15.63	15.47	15.82		0
	1	74	15.53	15.60	15.61		0
	36	0	15.49	15.33	15.79	0-2	0
	36	18	15.46	15.40	15.80		0
	36	37	15.39	15.37	15.66		0
	75	0	15.42	15.39	15.80		0
64QAM	1	0	15.87	15.41	15.87	0-2	0
	1	36	15.62	15.40	15.96		0
	1	74	15.47	15.64	15.59		0
	36	0	15.53	15.31	15.82	0-3	0
	36	18	15.48	15.37	15.83		0
	36	37	15.39	15.35	15.66		0
	75	0	15.46	15.36	15.76		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 159 of 293

Table 8-221
LTE Band 25 Conducted Powers Ant 4 - 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	15.59	15.48	15.73	0	0
	1	25	15.37	15.49	15.66		0
	1	49	15.33	15.60	15.57		0
	25	0	15.61	15.50	15.80	0-1	0
	25	12	15.47	15.47	15.76		0
	25	25	15.46	15.45	15.60		0
	50	0	15.52	15.47	15.72		0
16QAM	1	0	15.96	15.67	15.88	0-1	0
	1	25	15.55	15.67	15.83		0
	1	49	15.59	15.80	15.86		0
	25	0	15.69	15.54	15.83	0-2	0
	25	12	15.55	15.55	15.79		0
	25	25	15.49	15.51	15.64		0
	50	0	15.53	15.54	15.77		0
64QAM	1	0	15.86	15.60	15.84	0-2	0
	1	25	15.75	15.62	15.90		0
	1	49	15.54	15.72	15.87		0
	25	0	15.70	15.56	15.84	0-3	0
	25	12	15.55	15.55	15.81		0
	25	25	15.55	15.58	15.66		0
	50	0	15.56	15.55	15.74		0

Table 8-222
LTE Band 25 Conducted Powers Ant 4 - 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	15.57	15.44	15.77	0	0
	1	12	15.53	15.36	15.66		0
	1	24	15.40	15.40	15.69		0
	12	0	15.52	15.30	15.50	0-1	0
	12	6	15.49	15.29	15.44		0
	12	13	15.41	15.26	15.51		0
	25	0	15.50	15.30	15.45		0
16QAM	1	0	15.82	15.59	16.00	0-1	0
	1	12	15.70	15.66	15.82		0
	1	24	15.60	15.61	15.98		0
	12	0	15.51	15.32	15.50	0-2	0
	12	6	15.48	15.26	15.48		0
	12	13	15.40	15.31	15.51		0
	25	0	15.50	15.28	15.44		0
64QAM	1	0	15.75	15.72	15.84	0-2	0
	1	12	15.83	15.64	15.77		0
	1	24	15.77	15.62	15.85		0
	12	0	15.48	15.30	15.53	0-3	0
	12	6	15.48	15.25	15.40		0
	12	13	15.38	15.31	15.49		0
	25	0	15.50	15.28	15.42		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 160 of 293

Table 8-223
LTE Band 25 Conducted Powers Ant 4 - 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	15.33	15.33	15.34	0	0
	1	7	15.38	15.33	15.48		0
	1	14	15.31	15.25	15.39		0
	8	0	15.35	15.22	15.36	0-1	0
	8	4	15.36	15.19	15.44		0
	8	7	15.35	15.18	15.45		0
	15	0	15.40	15.22	15.46		0
16QAM	1	0	15.60	15.53	15.57	0-1	0
	1	7	15.62	15.55	15.63		0
	1	14	15.63	15.57	15.60		0
	8	0	15.40	15.27	15.38	0-2	0
	8	4	15.41	15.20	15.46		0
	8	7	15.39	15.21	15.41		0
	15	0	15.33	15.11	15.40		0
64QAM	1	0	15.73	15.44	15.38	0-2	0
	1	7	15.60	15.51	15.76		0
	1	14	15.80	15.43	15.64		0
	8	0	15.39	15.20	15.39	0-3	0
	8	4	15.28	15.19	15.53		0
	8	7	15.30	15.14	15.44		0
	15	0	15.34	15.17	15.48		0

Table 8-224
LTE Band 25 Conducted Powers Ant 4 - 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	15.45	15.31	15.71	0	0
	1	2	15.43	15.27	15.64		0
	1	5	15.44	15.28	15.69		0
	3	0	15.45	15.18	15.53		0
	3	2	15.45	15.18	15.48		0
	3	3	15.43	15.17	15.51		0
	6	0	15.39	15.13	15.42	0-1	0
16QAM	1	0	15.68	15.70	15.91	0-1	0
	1	2	15.66	15.57	15.73		0
	1	5	15.62	15.64	15.80		0
	3	0	15.50	15.27	15.66		0
	3	2	15.41	15.31	15.68		0
	3	3	15.50	15.30	15.76		0
	6	0	15.45	15.21	15.52	0-2	0
64QAM	1	0	15.82	15.39	15.84	0-2	0
	1	2	15.81	15.40	15.76		0
	1	5	15.68	15.41	15.71		0
	3	0	15.52	15.29	15.79		0
	3	2	15.52	15.32	15.66		0
	3	3	15.49	15.27	15.68		0
	6	0	15.40	15.15	15.46	0-3	0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 161 of 293

Table 8-225
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	14.39	14.22	14.39	0	0
	1	50	14.24	14.25	14.40		0
	1	99	14.37	14.35	14.38		0
	50	0	14.33	14.29	14.40	0-1	0
	50	25	14.21	14.33	14.39		0
	50	50	14.23	14.30	14.37		0
	100	0	14.20	14.32	14.39		0
16QAM	1	0	14.37	14.24	14.38	0-1	0
	1	50	14.16	14.26	14.37		0
	1	99	14.32	14.36	14.35		0
	50	0	14.13	14.06	14.26	0-2	0
	50	25	14.01	14.11	14.18		0
	50	50	14.01	14.14	14.15		0
	100	0	13.98	14.10	14.21		0
64QAM	1	0	14.32	14.27	14.40	0-2	0
	1	50	14.16	14.28	14.39		0
	1	99	14.30	14.36	14.36		0
	50	0	14.12	14.05	14.29	0-3	0
	50	25	14.00	14.11	14.22		0
	50	50	14.03	14.15	14.16		0
	100	0	13.97	14.11	14.24		0

Table 8-226
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	14.36	14.12	14.36	0	0
	1	36	14.39	14.29	14.27		0
	1	74	14.26	14.17	14.28		0
	36	0	14.39	14.28	14.37	0-1	0
	36	18	14.36	14.37	14.35		0
	36	37	14.28	14.27	14.33		0
	75	0	14.38	14.35	14.34		0
16QAM	1	0	14.26	14.17	14.06	0-1	0
	1	36	14.39	14.27	14.21		0
	1	74	14.29	14.06	14.34		0
	36	0	14.15	14.13	14.12	0-2	0
	36	18	14.29	14.21	14.16		0
	36	37	14.08	14.09	14.17		0
	75	0	14.21	14.17	14.13		0
64QAM	1	0	14.25	14.00	14.40	0-2	0
	1	36	14.35	14.20	14.36		0
	1	74	14.18	14.16	14.40		0
	36	0	14.19	14.10	14.23	0-3	0
	36	18	14.23	14.19	14.20		0
	36	37	14.09	14.14	14.14		0
	75	0	14.16	14.13	14.13		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 162 of 293

Table 8-227
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	14.32	14.33	14.20	0	0
	1	25	14.26	14.33	14.23		0
	1	49	14.35	14.29	14.30		0
	25	0	14.36	14.38	14.36	0-1	0
	25	12	14.33	14.36	14.30		0
	25	25	14.40	14.39	14.38		0
	50	0	14.35	14.35	14.35		0
16QAM	1	0	14.28	14.04	14.16	0-1	0
	1	25	14.02	14.00	14.22		0
	1	49	14.14	13.96	14.12		0
	25	0	14.13	14.10	14.16	0-2	0
	25	12	14.05	14.07	14.02		0
	25	25	14.17	14.09	14.18		0
	50	0	14.08	14.11	14.15		0
64QAM	1	0	14.18	14.37	14.39	0-2	0
	1	25	14.15	14.19	14.34		0
	1	49	14.33	14.38	14.38		0
	25	0	14.21	14.21	14.20	0-3	0
	25	12	14.19	14.20	14.14		0
	25	25	14.25	14.25	14.27		0
	50	0	14.19	14.25	14.18		0

Table 8-228
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	14.23	14.31	14.12	0	0
	1	12	14.25	14.30	14.19		0
	1	24	14.25	14.37	14.25		0
	12	0	14.17	14.20	14.20	0-1	0
	12	6	14.15	14.18	14.28		0
	12	13	14.14	14.21	14.28		0
	25	0	14.18	14.20	14.30		0
16QAM	1	0	14.25	14.16	14.25	0-1	0
	1	12	14.13	14.07	14.38		0
	1	24	14.21	14.24	14.40		0
	12	0	13.96	13.95	14.00	0-2	0
	12	6	14.01	13.92	14.18		0
	12	13	13.95	13.98	14.11		0
	25	0	14.03	13.93	14.14		0
64QAM	1	0	14.19	14.36	14.32	0-2	0
	1	12	14.30	14.31	14.38		0
	1	24	14.20	14.21	14.31		0
	12	0	14.08	14.03	13.95	0-3	0
	12	6	14.13	14.02	14.05		0
	12	13	14.03	14.02	14.05		0
	25	0	14.06	14.05	13.97		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 163 of 293

Table 8-229
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	14.15	14.26	14.20	0	0
	1	7	14.19	14.31	14.19		0
	1	14	14.18	14.29	14.14		0
	8	0	14.14	14.13	14.23	0-1	0
	8	4	14.13	14.12	14.20		0
	8	7	14.17	14.13	14.22		0
	15	0	14.14	14.14	14.26		0
16QAM	1	0	14.09	14.00	14.13	0-1	0
	1	7	14.07	13.85	14.21		0
	1	14	14.16	14.06	14.31		0
	8	0	13.91	13.87	13.97	0-2	0
	8	4	13.94	13.78	13.94		0
	8	7	13.99	13.83	13.93		0
	15	0	13.89	13.74	13.97		0
64QAM	1	0	14.21	14.08	14.35	0-2	0
	1	7	14.17	14.10	14.36		0
	1	14	14.16	14.06	14.39		0
	8	0	13.90	13.80	14.05	0-3	0
	8	4	13.92	13.76	14.01		0
	8	7	13.92	13.79	13.98		0
	15	0	13.88	13.78	13.98		0

Table 8-230
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	14.31	14.35	0	0
	1	2	14.28	14.38	14.33		0
	1	5	14.32	14.38	14.37		0
	3	0	14.29	14.20	14.16		0
	3	2	14.19	14.23	14.14		0
	3	3	14.21	14.24	14.16		0
	6	0	14.14	14.22	14.09	0-1	0
16QAM	1	0	14.35	14.14	14.21	0-1	0
	1	2	14.26	14.12	14.19		0
	1	5	14.27	14.09	14.27		0
	3	0	14.06	13.84	13.98		0
	3	2	13.92	14.00	13.98		0
	3	3	14.07	13.91	13.86		0
	6	0	13.86	13.94	13.92	0-2	0
64QAM	1	0	14.39	14.31	14.16	0-2	0
	1	2	14.38	14.26	14.35		0
	1	5	14.38	14.30	14.11		0
	3	0	14.01	14.24	13.93		0
	3	2	14.04	14.19	14.02		0
	3	3	14.10	14.19	14.10		0
	6	0	14.06	13.90	13.85	0-3	0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 164 of 293

Table 8-231
LTE Band 25 Conducted Powers Ant 1A - 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	14.22	14.08	14.38	0	0
	1	50	14.04	14.16	14.36		0
	1	99	14.20	14.32	14.33		0
	50	0	13.98	14.11	14.48	0-1	0
	50	25	13.99	14.21	14.39		0
	50	50	13.96	14.24	14.23		0
	100	0	14.00	14.22	14.37		0
16QAM	1	0	13.96	14.44	14.43	0-1	0
	1	50	14.01	14.38	14.31		0
	1	99	14.14	14.33	14.35		0
	50	0	13.80	14.27	14.29	0-2	0
	50	25	13.84	14.15	14.16		0
	50	50	13.79	14.02	14.01		0
	100	0	13.75	14.12	14.20		0
64QAM	1	0	14.19	14.08	14.25	0-2	0
	1	50	14.11	14.06	14.14		0
	1	99	14.02	14.04	14.26		0
	50	0	14.13	14.03	14.32	0-3	0
	50	25	13.76	13.97	14.06		0
	50	50	14.02	14.17	14.24		0
	100	0	13.77	14.01	14.05		0

Table 8-232
LTE Band 25 Conducted Powers Ant 1A - 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	14.60	14.08	14.37	0	0
	1	36	14.25	14.20	14.28		0
	1	74	14.29	14.17	14.30		0
	36	0	14.27	14.17	14.46	0-1	0
	36	18	14.13	14.25	14.38		0
	36	37	14.16	14.31	14.38		0
	75	0	14.13	14.29	14.38		0
16QAM	1	0	14.30	14.19	14.36	0-1	0
	1	36	13.99	14.26	14.34		0
	1	74	14.13	14.15	14.37		0
	36	0	14.02	13.96	14.25	0-2	0
	36	18	13.87	14.08	14.17		0
	36	37	13.92	14.10	14.21		0
	75	0	13.88	14.12	14.16		0
64QAM	1	0	14.21	14.11	14.16	0-2	0
	1	36	14.02	14.12	14.18		0
	1	74	14.11	14.32	14.36		0
	36	0	14.18	14.18	14.26	0-3	0
	36	18	13.80	13.97	14.04		0
	36	37	13.97	14.22	14.17		0
	75	0	13.82	13.96	14.02		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 165 of 293

Table 8-233
LTE Band 25 Conducted Powers Ant 1A - 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	14.33	14.21	14.30	0	0
	1	25	14.16	14.26	14.32		0
	1	49	14.10	14.34	14.30		0
	25	0	14.32	14.32	14.40	0-1	0
	25	12	14.19	14.33	14.38		0
	25	25	14.11	14.36	14.31		0
	50	0	14.18	14.34	14.37		0
16QAM	1	0	14.32	14.22	14.27	0-1	0
	1	25	14.09	14.37	14.39		0
	1	49	14.22	14.43	14.47		0
	25	0	14.03	14.04	14.15	0-2	0
	25	12	13.91	14.08	14.15		0
	25	25	13.83	14.17	14.10		0
	50	0	13.93	14.07	14.13		0
64QAM	1	0	14.43	14.22	14.15	0-2	0
	1	25	14.20	14.10	13.92		0
	1	49	14.12	14.30	14.16		0
	25	0	14.15	14.00	14.13	0-3	0
	25	12	13.80	13.87	13.80		0
	25	25	14.01	14.10	14.05		0
	50	0	13.78	13.81	13.77		0

Table 8-234
LTE Band 25 Conducted Powers Ant 1A - 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	14.41	14.18	14.22	0	0
	1	12	14.34	14.24	14.06		0
	1	24	14.25	14.32	14.21		0
	12	0	14.29	14.14	14.27	0-1	0
	12	6	14.28	14.16	14.16		0
	12	13	14.15	14.24	14.19		0
	25	0	14.25	14.21	14.17		0
16QAM	1	0	14.35	14.33	14.26	0-1	0
	1	12	14.22	14.24	14.13		0
	1	24	14.23	14.41	14.27		0
	12	0	13.96	13.90	13.97	0-2	0
	12	6	13.91	13.98	13.91		0
	12	13	13.76	13.96	13.97		0
	25	0	13.89	13.92	13.88		0
64QAM	1	0	14.26	14.26	14.39	0-2	0
	1	12	14.35	14.33	14.22		0
	1	24	14.38	14.32	14.48		0
	12	0	14.35	14.17	14.23	0-3	0
	12	6	14.00	13.88	14.06		0
	12	13	14.28	14.19	14.24		0
	25	0	14.05	13.87	14.04		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 166 of 293

Table 8-235
LTE Band 25 Conducted Powers Ant 1A - 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	14.47	14.39	14.27	0	0
	1	7	14.49	14.47	14.36		0
	1	14	14.40	14.43	14.30		0
	8	0	14.39	14.31	14.37	0-1	0
	8	4	14.44	14.31	14.39		0
	8	7	14.42	14.33	14.38		0
	15	0	14.46	14.34	14.45		0
16QAM	1	0	14.37	14.37	14.50	0-1	0
	1	7	14.44	14.34	14.60		0
	1	14	14.49	14.43	14.59		0
	8	0	14.25	14.03	14.22	0-2	0
	8	4	14.11	13.99	14.17		0
	8	7	14.17	14.02	14.23		0
	15	0	14.16	13.98	14.15		0
64QAM	1	0	14.42	14.21	14.22	0-2	0
	1	7	14.10	14.05	14.25		0
	1	14	14.45	14.41	14.32		0
	8	0	14.12	13.95	14.09	0-3	0
	8	4	14.20	14.07	14.18		0
	8	7	14.10	13.97	14.13		0
	15	0	14.15	13.86	14.05		0

Table 8-236
LTE Band 25 Conducted Powers Ant 1A - 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	14.26	14.20	14.39	0	0
	1	2	14.24	14.19	14.39		0
	1	5	14.24	14.21	14.46		0
	3	0	14.26	14.09	14.23		0
	3	2	14.23	14.08	14.21		0
	3	3	14.24	14.11	14.27	0	
	6	0	14.18	14.06	14.17	0-1	0
16QAM	1	0	14.43	14.32	14.33	0-1	0
	1	2	14.47	14.55	14.54		0
	1	5	14.56	14.52	14.43		0
	3	0	14.27	14.16	14.30		0
	3	2	14.31	14.18	14.29		0
	3	3	14.22	14.23	14.27	0	
	6	0	14.16	13.97	14.16	0-2	0
64QAM	1	0	14.26	14.26	14.39	0-2	0
	1	2	14.30	14.20	14.46		0
	1	5	14.38	14.32	14.48		0
	3	0	14.11	13.89	14.08		0
	3	2	14.00	13.88	14.06		0
	3	3	14.03	13.88	14.09	0	
	6	0	14.05	13.87	14.04	0-3	0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 167 of 293

Table 8-237
LTE Band 25 Conducted Powers Ant 3A - 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	14.52	14.32	14.60	0	0
	1	50	14.35	14.31	14.48		0
	1	99	14.53	14.59	14.49		0
	50	0	14.36	14.32	14.60	0-1	0
	50	25	14.35	14.34	14.48		0
	50	50	14.41	14.37	14.57		0
	100	0	14.34	14.36	14.52		0
16QAM	1	0	14.37	14.26	14.43	0-1	0
	1	50	14.42	14.20	14.41		0
	1	99	14.40	14.39	14.38		0
	50	0	14.06	14.11	14.33	0-2	0
	50	25	14.08	14.12	14.23		0
	50	50	14.09	14.09	14.32		0
	100	0	14.08	14.12	14.30		0
64QAM	1	0	14.36	14.17	14.52	0-2	0
	1	50	14.25	14.20	14.34		0
	1	99	14.42	14.46	14.38		0
	50	0	14.14	14.17	14.41	0-3	0
	50	25	14.17	14.14	14.24		0
	50	50	14.15	14.16	14.31		0
	100	0	14.10	14.17	14.29		0

Table 8-238
LTE Band 25 Conducted Powers Ant 3A - 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	14.27	14.47	0	0
	1	36	14.40	14.29	14.41		0
	1	74	14.32	14.36	14.31		0
	36	0	14.24	14.35	14.51	0-1	0
	36	18	14.32	14.35	14.44		0
	36	37	14.30	14.24	14.38		0
	75	0	14.30	14.31	14.45		0
16QAM	1	0	14.34	14.39	14.58	0-1	0
	1	36	14.31	14.41	14.55		0
	1	74	14.23	14.40	14.48		0
	36	0	14.02	14.16	14.37	0-2	0
	36	18	14.12	14.18	14.34		0
	36	37	14.12	14.11	14.24		0
	75	0	14.12	14.16	14.24		0
64QAM	1	0	14.25	14.17	14.52	0-2	0
	1	36	14.34	14.35	14.44		0
	1	74	14.09	14.45	14.33		0
	36	0	14.00	14.02	14.34	0-3	0
	36	18	14.11	14.12	14.29		0
	36	37	14.06	14.00	14.26		0
	75	0	13.99	14.04	14.26		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 168 of 293

Table 8-239
LTE Band 25 Conducted Powers Ant 3A - 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	14.27	14.35	14.42	0	0
	1	25	14.16	14.33	14.33		0
	1	49	14.27	14.34	14.31		0
	25	0	14.28	14.40	14.52	0-1	0
	25	12	14.21	14.40	14.44		0
	25	25	14.31	14.40	14.39		0
	50	0	14.23	14.41	14.45		0
16QAM	1	0	14.15	14.42	14.42	0-1	0
	1	25	14.18	14.31	14.42		0
	1	49	14.06	14.32	14.57		0
	25	0	14.09	14.20	14.32	0-2	0
	25	12	14.03	14.18	14.22		0
	25	25	14.13	14.18	14.20		0
	50	0	14.03	14.19	14.23		0
64QAM	1	0	14.41	14.15	14.60	0-2	0
	1	25	14.20	14.44	14.41		0
	1	49	14.38	14.29	14.25		0
	25	0	14.09	14.12	14.36	0-3	0
	25	12	14.00	14.12	14.25		0
	25	25	14.09	14.13	14.17		0
	50	0	14.05	14.12	14.26		0

Table 8-240
LTE Band 25 Conducted Powers Ant 3A - 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	14.34	14.31	14.33	0	0
	1	12	14.26	14.28	14.21		0
	1	24	14.26	14.31	14.28		0
	12	0	14.26	14.19	14.34	0-1	0
	12	6	14.19	14.16	14.26		0
	12	13	14.12	14.17	14.26		0
	25	0	14.20	14.18	14.28		0
16QAM	1	0	14.35	14.37	14.43	0-1	0
	1	12	14.26	14.36	14.35		0
	1	24	14.25	14.40	14.40		0
	12	0	14.07	14.02	14.07	0-2	0
	12	6	14.00	14.00	14.02		0
	12	13	13.95	13.99	14.04		0
	25	0	13.98	13.98	14.03		0
64QAM	1	0	14.05	14.24	14.27	0-2	0
	1	12	14.10	14.15	14.51		0
	1	24	14.17	14.03	14.60		0
	12	0	14.00	13.84	14.14	0-3	0
	12	6	13.93	13.89	14.06		0
	12	13	13.85	13.90	14.02		0
	25	0	13.92	13.91	14.03		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 169 of 293

Table 8-241
LTE Band 25 Conducted Powers Ant 3A - 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	14.37	14.45	14.25	0	0
	1	7	14.39	14.50	14.29		0
	1	14	14.36	14.44	14.29		0
	8	0	14.37	14.33	14.33	0-1	0
	8	4	14.33	14.34	14.31		0
	8	7	14.34	14.34	14.33		0
	15	0	14.33	14.35	14.37		0
16QAM	1	0	14.30	14.26	14.42	0-1	0
	1	7	14.31	14.45	14.50		0
	1	14	14.20	14.27	14.58		0
	8	0	13.99	13.99	14.04	0-2	0
	8	4	13.95	13.96	14.06		0
	8	7	13.99	13.95	14.07		0
	15	0	13.97	13.97	14.05		0
64QAM	1	0	14.23	14.42	14.36	0-2	0
	1	7	14.40	14.38	14.35		0
	1	14	14.32	14.39	14.30		0
	8	0	14.01	13.97	14.15	0-3	0
	8	4	13.98	14.03	14.09		0
	8	7	13.97	14.02	14.08		0
	15	0	13.93	13.97	14.06		0

Table 8-242
LTE Band 25 Conducted Powers Ant 3A - 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	14.39	14.47	14.57	0	0
	1	2	14.39	14.45	14.55		0
	1	5	14.43	14.48	14.50		0
	3	0	14.39	14.36	14.36		0
	3	2	14.38	14.36	14.39		0
	3	3	14.39	14.38	14.44		0
	6	0	14.35	14.32	14.32	0-1	0
16QAM	1	0	14.25	14.34	14.38	0-1	0
	1	2	14.39	14.47	14.42		0
	1	5	14.34	14.42	14.57		0
	3	0	14.17	14.18	14.16		0
	3	2	14.18	14.18	14.13		0
	3	3	14.18	14.13	14.21		0
	6	0	14.11	14.05	14.09	0-2	0
64QAM	1	0	14.50	14.44	14.53	0-2	0
	1	2	14.35	14.12	14.40		0
	1	5	14.45	14.44	14.25		0
	3	0	14.21	14.02	14.26		0
	3	2	14.21	14.12	14.26		0
	3	3	14.22	14.13	14.27		0
	6	0	14.02	14.08	14.01	0-3	0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 170 of 293

8.3.11

LTE Band 30

Table 8-243
LTE Band 30 Conducted Powers Ant 4 - 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	13.45	0	0
	1	25	13.34		0
	1	49	13.33		0
	25	0	13.56	0-1	0
	25	12	13.50		0
	25	25	13.48		0
16QAM	50	0	13.44	0-1	0
	1	0	13.53		0
	1	25	13.48		0
	1	49	13.46	0-2	0
	25	0	13.55		0
	25	12	13.48		0
64QAM	25	25	13.50	0-2	0
	50	0	13.46		0
	1	0	13.64	0-2	0
	1	25	13.58		0
	1	49	13.54	0-3	0
	25	0	13.59		0
64QAM	25	12	13.50		0
	25	25	13.49	0-3	0
	50	0	13.47		0

Table 8-244
LTE Band 30 Conducted Powers Ant 4 - 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	13.46	0	0
	1	12	13.39		0
	1	24	13.44		0
	12	0	13.58	0-1	0
	12	6	13.57		0
	12	13	13.57		0
16QAM	25	0	13.50	0-1	0
	1	0	13.65		0
	1	12	13.61	0-1	0
	1	24	13.67		0
	12	0	13.33	0-2	0
	12	6	13.28		0
64QAM	12	13	13.37		0
	25	0	13.20	0-2	0
	1	0	13.53		0
	1	12	13.49	0-2	0
	1	24	13.55		0
	12	0	13.32	0-3	0
64QAM	12	6	13.31		0
	12	13	13.34		0
	25	0	13.24	0-3	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.

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 171 of 293

Table 8-245
LTE Band 30 Conducted Powers Ant 4 - 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	10.49		0
	1	49	10.48		0
	25	0	10.52	0-1	0
	25	12	10.47		0
	25	25	10.51		0
	50	0	10.48		0
16QAM	1	0	10.63	0-1	0
	1	25	10.55		0
	1	49	10.53		0
	25	0	10.41	0-2	0
	25	12	10.32		0
	25	25	10.40		0
	50	0	10.36		0
64QAM	1	0	10.50	0-2	0
	1	25	10.41		0
	1	49	10.39		0
	25	0	10.36	0-3	0
	25	12	10.29		0
	25	25	10.31		0
	50	0	10.27		0

Table 8-246
LTE Band 30 Conducted Powers Ant 4 - 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	10.24	0	0
	1	12	10.19		0
	1	24	10.31		0
	12	0	10.22	0-1	0
	12	6	10.15		0
	12	13	10.16		0
	25	0	10.03		0
16QAM	1	0	10.31	0-1	0
	1	12	10.31		0
	1	24	10.30		0
	12	0	10.08	0-2	0
	12	6	10.09		0
	12	13	10.12		0
	25	0	9.94		0
64QAM	1	0	10.36	0-2	0
	1	12	10.32		0
	1	24	10.54		0
	12	0	10.07	0-3	0
	12	6	10.04		0
	12	13	10.12		0
	25	0	9.99		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.

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 172 of 293

Table 8-247
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	12.77	0	0
	1	25	12.74		0
	1	49	12.69		0
	25	0	12.85	0-1	0
	25	12	12.81		0
	25	25	12.86		0
	50	0	12.76		0
16QAM	1	0	12.74	0-1	0
	1	25	12.69		0
	1	49	12.61		0
	25	0	12.58	0-2	0
	25	12	12.54		0
	25	25	12.56		0
	50	0	12.59		0
64QAM	1	0	12.62	0-2	0
	1	25	12.57		0
	1	49	12.49		0
	25	0	12.45	0-3	0
	25	12	12.46		0
	25	25	12.59		0
	50	0	12.51		0

Table 8-248
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	12.79		0
	1	24	12.83		0
	12	0	13.00	0-1	0
	12	6	12.97		0
	12	13	12.91		0
	25	0	12.95		0
16QAM	1	0	12.97	0-1	0
	1	12	12.94		0
	1	24	12.95		0
	12	0	12.59	0-2	0
	12	6	12.59		0
	12	13	12.51		0
	25	0	12.44		0
64QAM	1	0	12.87	0-2	0
	1	12	12.76		0
	1	24	12.83		0
	12	0	12.53	0-3	0
	12	6	12.50		0
	12	13	12.41		0
	25	0	12.46		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.

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 173 of 293

Table 8-249
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	9.85	0	0
	1	25	9.75		0
	1	49	9.69		0
	25	0	9.83	0-1	0
	25	12	9.76		0
	25	25	9.69		0
16QAM	50	0	9.80	0-1	0
	1	0	9.97		0
	1	25	9.90		0
	1	49	9.77	0-2	0
	25	0	9.37		0
	25	12	9.28		0
64QAM	25	25	9.20	0-2	0
	50	0	9.37		0
	1	0	9.75	0-3	0
	1	25	9.82		0
	1	49	10.00		0
	25	0	9.48	0-3	0
	25	12	9.51		0
	25	25	9.47		0
	50	0	9.58		0

Table 8-250
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	9.84	0	0
	1	12	9.92		0
	1	24	9.87		0
	12	0	9.82	0-1	0
	12	6	9.86		0
	12	13	9.81		0
16QAM	25	0	9.95	0-1	0
	1	0	9.81		0
	1	12	9.97		0
	1	24	9.92	0-2	0
	12	0	9.24		0
	12	6	9.33		0
64QAM	12	13	9.35	0-2	0
	25	0	9.50		0
	1	0	9.73	0-3	0
	1	12	9.91		0
	1	24	9.87		0
	12	0	9.27	0-3	0
	12	6	9.31		0
	12	13	9.34		0
	25	0	9.48		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.

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 174 of 293

Table 8-251
LTE Band 30 Conducted Powers Ant 1A - 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	14.21	0	0
	1	25	14.26		0
	1	49	14.36		0
	25	0	14.27	0-1	0
	25	12	14.31		0
	25	25	14.36		0
	50	0	14.35		0
16QAM	1	0	14.22	0-1	0
	1	25	14.20		0
	1	49	14.29		0
	25	0	14.00	0-2	0
	25	12	14.09		0
	25	25	14.12		0
	50	0	14.10		0
64QAM	1	0	14.43	0-2	0
	1	25	14.34		0
	1	49	14.44		0
	25	0	14.38	0-3	0
	25	12	14.40		0
	25	25	14.27		0
	50	0	14.37		0

Table 8-252
LTE Band 30 Conducted Powers Ant 1A - 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	14.22	0	0
	1	12	14.20		0
	1	24	14.23		0
	12	0	14.31	0-1	0
	12	6	14.38		0
	12	13	14.32		0
	25	0	14.37		0
16QAM	1	0	14.47	0-1	0
	1	12	14.37		0
	1	24	14.34		0
	12	0	14.06	0-2	0
	12	6	14.01		0
	12	13	13.96		0
	25	0	14.07		0
64QAM	1	0	14.38	0-2	0
	1	12	14.40		0
	1	24	14.36		0
	12	0	14.04	0-3	0
	12	6	14.12		0
	12	13	14.03		0
	25	0	14.04		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.

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 175 of 293

Table 8-253
LTE Band 30 Conducted Powers Ant 1A - 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	11.32	0	0
	1	25	11.31		0
	1	49	11.22		0
	25	0	11.18	0-1	0
	25	12	11.19		0
	25	25	11.39		0
	50	0	11.26		0
16QAM	1	0	11.50	0-1	0
	1	25	11.49		0
	1	49	11.43		0
	25	0	11.13	0-2	0
	25	12	11.19		0
	25	25	11.33		0
	50	0	11.26		0
64QAM	1	0	11.44	0-2	0
	1	25	11.47		0
	1	49	11.30		0
	25	0	11.00	0-3	0
	25	12	10.95		0
	25	25	11.18		0
	50	0	11.01		0

Table 8-254
LTE Band 30 Conducted Powers Ant 1A - 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	11.22	0	0
	1	12	11.45		0
	1	24	11.30		0
	12	0	11.50	0-1	0
	12	6	11.06		0
	12	13	11.08		0
	25	0	11.10		0
16QAM	1	0	11.39	0-1	0
	1	12	11.48		0
	1	24	11.50		0
	12	0	10.74	0-2	0
	12	6	10.84		0
	12	13	10.81		0
	25	0	10.91		0
64QAM	1	0	11.18	0-2	0
	1	12	11.32		0
	1	24	11.50		0
	12	0	10.50	0-3	0
	12	6	10.60		0
	12	13	10.57		0
	25	0	10.64		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.

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 176 of 293

Table 8-255
LTE Band 30 Conducted Powers Ant 3A - 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	13.00	0	0
	1	25	13.11		0
	1	49	13.09		0
	25	0	12.98	0-1	0
	25	12	12.97		0
	25	25	12.99		0
16QAM	50	0	12.89	0-1	0
	1	0	13.05		0
	1	25	13.13		0
	1	49	13.14	0-2	0
	25	0	12.82		0
	25	12	12.80		0
64QAM	25	25	12.86	0-2	0
	50	0	12.84		0
	1	0	12.95		0
	1	25	13.06	0-3	0
	1	49	13.12		0
	25	0	12.81		0
	25	12	12.79		0
	25	25	12.84		0
	50	0	12.82		0

Table 8-256
LTE Band 30 Conducted Powers Ant 3A - 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	13.03	0	0
	1	12	13.11		0
	1	24	13.10		0
	12	0	13.01	0-1	0
	12	6	13.01		0
	12	13	12.89		0
16QAM	25	0	13.05	0-1	0
	1	0	13.09		0
	1	12	13.15		0
	1	24	13.19	0-2	0
	12	0	12.76		0
	12	6	12.78		0
64QAM	12	13	12.64	0-2	0
	25	0	12.84		0
	1	0	12.99	0-3	0
	1	12	13.10		0
	1	24	13.16		0
	12	0	12.72		0
	12	6	12.73		0
	12	13	12.63		0
	25	0	12.84		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.

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 177 of 293

Table 8-257
LTE Band 30 Conducted Powers Ant 3A - 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	9.88	0	0
	1	25	10.04		0
	1	49	9.94		0
	25	0	9.96	0-1	0
	25	12	10.01		0
	25	25	10.15		0
	50	0	10.03		0
16QAM	1	0	9.85	0-1	0
	1	25	10.19		0
	1	49	9.69		0
	25	0	9.85	0-2	0
	25	12	9.53		0
	25	25	9.58		0
	50	0	9.55		0
64QAM	1	0	10.15	0-2	0
	1	25	10.09		0
	1	49	10.20		0
	25	0	9.78	0-3	0
	25	12	9.80		0
	25	25	9.91		0
	50	0	9.86		0

Table 8-258
LTE Band 30 Conducted Powers Ant 3A - 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	10.09		0
	1	24	10.11		0
	12	0	10.05	0-1	0
	12	6	10.01		0
	12	13	9.92		0
	25	0	10.11		0
16QAM	1	0	10.05	0-1	0
	1	12	10.09		0
	1	24	10.07		0
	12	0	9.53	0-2	0
	12	6	9.46		0
	12	13	9.39		0
	25	0	9.50		0
64QAM	1	0	10.00	0-2	0
	1	12	10.03		0
	1	24	10.10		0
	12	0	9.53	0-3	0
	12	6	9.46		0
	12	13	9.37		0
	25	0	9.52		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.

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 178 of 293

8.3.12

LTE Band 7

Table 8-259
LTE Band 7 Conducted Powers Ant 4 - 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	13.52	13.61	13.18	0	0
	1	50	13.64	13.41	13.36		0
	1	99	13.48	13.35	13.63		0
	50	0	13.63	13.40	13.40	0-1	0
	50	25	13.69	13.32	13.44		0
	50	50	13.70	13.26	13.48		0
	100	0	13.62	13.33	13.39		0
16QAM	1	0	13.47	13.36	13.12	0-1	0
	1	50	13.61	13.25	13.22		0
	1	99	13.46	13.23	13.44		0
	50	0	13.31	13.11	13.06	0-2	0
	50	25	13.35	13.15	13.05		0
	50	50	13.44	13.13	13.20		0
	100	0	13.32	13.08	13.09		0
64QAM	1	0	13.42	13.36	13.18	0-2	0
	1	50	13.64	13.16	13.34		0
	1	99	13.57	13.09	13.51		0
	50	0	13.23	13.08	13.14	0-3	0
	50	25	13.34	13.02	13.16		0
	50	50	13.43	12.97	13.23		0
	100	0	13.34	13.01	13.16		0

Table 8-260
LTE Band 7 Conducted Powers Ant 4 - 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	13.44	13.43	13.25	0	0
	1	36	13.48	13.42	13.39		0
	1	74	13.49	13.42	13.47		0
	36	0	13.63	13.36	13.46	0-1	0
	36	18	13.61	13.40	13.47		0
	36	37	13.63	13.37	13.52		0
	75	0	13.60	13.38	13.42		0
16QAM	1	0	13.70	13.53	13.63	0-1	0
	1	36	13.70	13.59	13.69		0
	1	74	13.70	13.52	13.70		0
	36	0	13.54	13.29	13.51	0-2	0
	36	18	13.58	13.34	13.54		0
	36	37	13.63	13.41	13.56		0
	75	0	13.55	13.34	13.52		0
64QAM	1	0	13.70	13.43	13.56	0-2	0
	1	36	13.66	13.34	13.49		0
	1	74	13.70	13.51	13.61		0
	36	0	13.66	13.31	13.54	0-3	0
	36	18	13.67	13.36	13.53		0
	36	37	13.70	13.43	13.56		0
	75	0	13.65	13.35	13.47		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 179 of 293

Table 8-261
LTE Band 7 Conducted Powers Ant 4 - 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	13.50	13.14	13.44	0	0
	1	25	13.53	13.13	13.35		0
	1	49	13.45	13.27	13.46		0
	25	0	13.61	13.21	13.45	0-1	0
	25	12	13.61	13.24	13.47		0
	25	25	13.53	13.32	13.51		0
	50	0	13.61	13.29	13.51		0
16QAM	1	0	13.70	13.59	13.70	0-1	0
	1	25	13.70	13.55	13.70		0
	1	49	13.70	13.63	13.70		0
	25	0	13.61	13.31	13.48	0-2	0
	25	12	13.61	13.25	13.50		0
	25	25	13.57	13.38	13.49		0
	50	0	13.61	13.34	13.53		0
64QAM	1	0	13.70	13.49	13.70	0-2	0
	1	25	13.70	13.54	13.70		0
	1	49	13.70	13.57	13.70		0
	25	0	13.69	13.29	13.60	0-3	0
	25	12	13.68	13.33	13.64		0
	25	25	13.69	13.39	13.59		0
	50	0	13.69	13.35	13.64		0

Table 8-262
LTE Band 7 Conducted Powers Ant 4 - 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	13.47	13.25	13.31	0	0
	1	12	13.51	13.23	13.35		0
	1	24	13.59	13.35	13.42		0
	12	0	13.39	13.20	13.46	0-1	0
	12	6	13.44	13.15	13.44		0
	12	13	13.47	13.15	13.48		0
	25	0	13.45	13.17	13.46		0
16QAM	1	0	13.70	13.62	13.70	0-1	0
	1	12	13.63	13.43	13.70		0
	1	24	13.70	13.70	13.70		0
	12	0	13.45	13.22	13.49	0-2	0
	12	6	13.40	13.15	13.47		0
	12	13	13.41	13.20	13.48		0
	25	0	13.39	13.15	13.44		0
64QAM	1	0	13.69	13.32	13.70	0-2	0
	1	12	13.70	13.08	13.70		0
	1	24	13.70	13.41	13.70		0
	12	0	13.45	13.17	13.48	0-3	0
	12	6	13.43	13.12	13.52		0
	12	13	13.51	13.20	13.50		0
	25	0	13.42	13.18	13.48		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 180 of 293

Table 8-263
LTE Band 7 Conducted Powers Ant 4 - 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	10.53	10.61	10.56	0	0
	1	50	10.66	10.19	10.56		0
	1	99	10.67	10.43	10.61		0
	50	0	10.63	10.35	10.50	0-1	0
	50	25	10.58	10.21	10.60		0
	50	50	10.61	10.27	10.53		0
	100	0	10.59	10.42	10.59		0
16QAM	1	0	10.55	10.31	10.36	0-1	0
	1	50	10.70	10.10	10.69		0
	1	99	10.48	10.27	10.70		0
	50	0	10.40	10.10	10.25	0-2	0
	50	25	10.44	10.12	10.40		0
	50	50	10.42	10.12	10.39		0
	100	0	10.37	10.13	10.36		0
64QAM	1	0	10.34	10.16	10.46	0-2	0
	1	50	10.59	9.78	10.60		0
	1	99	10.55	10.45	10.27		0
	50	0	10.17	9.99	10.20	0-3	0
	50	25	10.10	9.99	10.23		0
	50	50	10.15	10.07	10.12		0
	100	0	10.13	10.02	10.20		0

Table 8-264
LTE Band 7 Conducted Powers Ant 4 - 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	10.41	10.28	10.45	0	0
	1	36	10.63	10.04	10.70		0
	1	74	10.59	9.99	10.49		0
	36	0	10.47	10.29	10.62	0-1	0
	36	18	10.41	10.32	10.62		0
	36	37	10.38	10.29	10.60		0
	75	0	10.38	10.30	10.58		0
16QAM	1	0	10.28	10.07	10.25	0-1	0
	1	36	10.35	9.86	10.42		0
	1	74	10.46	9.92	10.39		0
	36	0	10.21	9.99	10.26	0-2	0
	36	18	10.23	10.08	10.29		0
	36	37	10.27	10.09	10.26		0
	75	0	10.22	10.12	10.24		0
64QAM	1	0	10.29	10.28	10.14	0-2	0
	1	36	10.53	9.88	10.70		0
	1	74	10.65	9.97	10.48		0
	36	0	10.15	9.94	10.20	0-3	0
	36	18	10.09	9.90	10.17		0
	36	37	10.09	9.86	10.15		0
	75	0	10.09	9.91	10.13		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 181 of 293

Table 8-265
LTE Band 7 Conducted Powers Ant 4 - 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	10.62	10.29	10.58	0	0
	1	25	10.70	10.04	10.35		0
	1	49	10.69	10.08	10.42		0
	25	0	10.60	10.27	10.43	0-1	0
	25	12	10.62	10.11	10.42		0
	25	25	10.57	10.11	10.21		0
	50	0	10.63	10.13	10.28		0
16QAM	1	0	10.54	10.09	10.52	0-1	0
	1	25	10.46	10.03	10.36		0
	1	49	10.62	9.89	10.34		0
	25	0	10.37	10.05	10.36	0-2	0
	25	12	10.43	9.93	10.23		0
	25	25	10.42	9.90	10.04		0
	50	0	10.34	9.95	10.17		0
64QAM	1	0	10.47	10.43	10.67	0-2	0
	1	25	10.70	9.89	10.40		0
	1	49	10.60	10.14	10.64		0
	25	0	10.33	9.95	10.31	0-3	0
	25	12	10.41	10.07	10.11		0
	25	25	10.22	10.10	10.27		0
	50	0	10.29	10.12	10.33		0

Table 8-266
LTE Band 7 Conducted Powers Ant 4 - 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	10.46	10.11	10.65	0	0
	1	12	10.50	9.95	10.59		0
	1	24	10.56	10.01	10.65		0
	12	0	10.32	10.05	10.40	0-1	0
	12	6	10.37	9.99	10.36		0
	12	13	10.39	10.00	10.37		0
	25	0	10.37	10.06	10.35		0
16QAM	1	0	10.41	10.07	10.31	0-1	0
	1	12	10.36	9.97	10.38		0
	1	24	10.26	9.88	10.39		0
	12	0	9.99	9.81	10.09	0-2	0
	12	6	9.98	9.66	10.02		0
	12	13	10.04	9.64	10.03		0
	25	0	9.97	9.68	10.06		0
64QAM	1	0	10.41	10.12	10.47	0-2	0
	1	12	10.60	9.88	10.54		0
	1	24	10.63	9.90	10.50		0
	12	0	10.15	9.80	10.22	0-3	0
	12	6	10.11	9.58	10.17		0
	12	13	10.16	9.54	10.21		0
	25	0	10.11	9.59	10.13		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 182 of 293

Table 8-267
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	14.17	14.36	14.51	0	0
	1	50	14.28	14.20	14.09		0
	1	99	14.52	14.38	14.35		0
	50	0	14.16	14.39	14.24	0-1	0
	50	25	14.25	14.31	14.09		0
	50	50	14.48	14.35	14.20		0
	100	0	14.18	14.14	14.09		0
16QAM	1	0	14.12	14.42	14.47	0-1	0
	1	50	14.24	14.32	14.34		0
	1	99	14.46	14.48	14.52		0
	50	0	13.91	14.24	14.25	0-2	0
	50	25	14.01	14.22	14.22		0
	50	50	14.20	14.23	14.25		0
	100	0	14.07	14.19	14.13		0
64QAM	1	0	14.10	14.52	14.53	0-2	0
	1	50	14.25	14.33	14.36		0
	1	99	14.44	14.58	14.57		0
	50	0	13.91	14.24	14.24	0-3	0
	50	25	14.06	14.20	14.22		0
	50	50	14.20	14.23	14.24		0
	100	0	14.09	14.21	14.13		0

Table 8-268
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	14.23	14.19	14.11	0	0
	1	36	14.26	14.24	14.23		0
	1	74	14.24	14.22	14.14		0
	36	0	14.20	14.40	14.14	0-1	0
	36	18	14.30	14.39	14.33		0
	36	37	14.26	14.40	14.28		0
	75	0	14.26	14.37	14.31		0
16QAM	1	0	14.26	14.48	14.41	0-1	0
	1	36	14.47	14.58	14.59		0
	1	74	14.52	14.60	14.59		0
	36	0	13.95	14.23	13.93	0-2	0
	36	18	14.04	14.20	14.16		0
	36	37	14.06	14.27	14.07		0
	75	0	13.97	14.12	14.07		0
64QAM	1	0	14.08	14.60	14.04	0-2	0
	1	36	14.35	14.58	14.37		0
	1	74	14.50	14.55	14.45		0
	36	0	13.96	14.26	13.90	0-3	0
	36	18	14.05	14.24	14.11		0
	36	37	14.02	14.28	14.06		0
	75	0	13.95	14.12	14.06		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 183 of 293

Table 8-269
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	14.18	14.33	14.22	0	0
	1	25	14.23	14.22	14.25		0
	1	49	14.28	14.35	14.30		0
	25	0	14.23	14.42	14.34	0-1	0
	25	12	14.25	14.36	14.31		0
	25	25	14.29	14.44	14.31		0
	50	0	14.29	14.37	14.35		0
16QAM	1	0	14.43	14.56	14.45	0-1	0
	1	25	14.53	14.53	14.44		0
	1	49	14.58	14.59	14.57		0
	25	0	13.98	14.26	14.10	0-2	0
	25	12	14.00	14.17	14.06		0
	25	25	14.10	14.25	14.06		0
	50	0	14.00	14.14	14.04		0
64QAM	1	0	14.28	14.54	14.41	0-2	0
	1	25	14.17	14.53	14.54		0
	1	49	14.44	14.60	14.57		0
	25	0	13.93	14.24	14.15	0-3	0
	25	12	13.93	14.14	14.11		0
	25	25	14.06	14.21	14.12		0
	50	0	13.94	14.12	14.17		0

Table 8-270
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	14.27	14.52	14.41	0	0
	1	12	14.31	14.42	14.42		0
	1	24	14.33	14.52	14.46		0
	12	0	14.23	14.47	14.43	0-1	0
	12	6	14.31	14.46	14.44		0
	12	13	14.35	14.47	14.44		0
	25	0	14.31	14.47	14.45		0
16QAM	1	0	14.45	14.57	14.57	0-1	0
	1	12	14.51	14.56	14.56		0
	1	24	14.60	14.55	14.58		0
	12	0	13.87	14.29	14.19	0-2	0
	12	6	13.91	14.28	14.20		0
	12	13	14.00	14.29	14.22		0
	25	0	13.94	14.25	14.20		0
64QAM	1	0	14.14	14.58	14.44	0-2	0
	1	12	14.15	14.46	14.45		0
	1	24	14.26	14.57	14.48		0
	12	0	13.61	13.94	13.86	0-3	0
	12	6	13.67	13.93	13.85		0
	12	13	13.72	13.93	13.90		0
	25	0	13.75	13.91	13.88		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 184 of 293

Table 8-271
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	10.86	11.50	11.10	0	0
	1	50	10.94	11.47	10.85		0
	1	99	11.12	11.46	10.95		0
	50	0	10.78	11.24	11.02	0-1	0
	50	25	10.92	11.27	10.96		0
	50	50	11.03	11.14	10.97		0
	100	0	10.91	11.05	10.97		0
16QAM	1	0	11.03	11.35	11.29	0-1	0
	1	50	11.15	11.23	11.14		0
	1	99	11.02	11.23	11.06		0
	50	0	10.81	11.13	10.93	0-2	0
	50	25	10.97	11.16	10.80		0
	50	50	11.02	11.21	10.79		0
	100	0	10.97	11.13	10.90		0
64QAM	1	0	11.02	11.25	11.12	0-2	0
	1	50	11.25	11.25	10.90		0
	1	99	11.18	11.22	11.13		0
	50	0	10.81	11.17	10.99	0-3	0
	50	25	10.96	11.18	10.93		0
	50	50	11.01	11.21	10.93		0
	100	0	10.94	11.15	10.93		0

Table 8-272
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	10.80	11.24	11.11	0	0
	1	36	10.85	11.23	11.18		0
	1	74	10.99	11.27	11.13		0
	36	0	11.02	11.12	11.12	0-1	0
	36	18	11.12	11.16	11.25		0
	36	37	11.13	11.15	11.25		0
	75	0	11.10	11.13	11.24		0
16QAM	1	0	10.76	11.43	11.22	0-1	0
	1	36	10.75	11.34	11.08		0
	1	74	11.20	11.43	11.17		0
	36	0	10.53	11.07	10.88	0-2	0
	36	18	10.73	11.13	10.99		0
	36	37	10.77	11.15	10.98		0
	75	0	10.74	11.10	11.01		0
64QAM	1	0	10.89	11.22	11.17	0-2	0
	1	36	10.72	11.23	11.16		0
	1	74	10.93	11.26	11.06		0
	36	0	10.52	11.13	10.94	0-3	0
	36	18	10.71	11.17	11.06		0
	36	37	10.76	11.16	11.04		0
	75	0	10.72	11.11	11.04		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 185 of 293

Table 8-273

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	10.88	11.12	11.06	0	0
	1	25	10.73	11.00	11.12		0
	1	49	10.86	11.08	11.20		0
	25	0	10.85	11.12	11.20	0-1	0
	25	12	10.87	11.11	11.20		0
	25	25	10.93	11.14	11.24		0
	50	0	10.90	11.13	11.21		0
16QAM	1	0	11.01	10.96	11.02	0-1	0
	1	25	10.68	10.87	11.20		0
	1	49	11.05	11.12	11.09		0
	25	0	10.59	10.89	10.92	0-2	0
	25	12	10.64	10.90	10.92		0
	25	25	10.79	10.92	10.97		0
	50	0	10.69	10.90	10.97		0
64QAM	1	0	11.02	10.82	11.04	0-2	0
	1	25	10.84	10.92	11.07		0
	1	49	10.91	10.91	11.17		0
	25	0	10.67	10.90	10.95	0-3	0
	25	12	10.66	10.91	10.98		0
	25	25	10.77	10.92	10.99		0
	50	0	10.68	10.93	10.96		0

Table 8-274

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	11.09	11.25	10.77	0	0
	1	12	10.92	11.28	10.80		0
	1	24	10.97	11.33	10.86		0
	12	0	10.88	11.19	10.89	0-1	0
	12	6	10.77	11.21	10.93		0
	12	13	10.68	11.19	10.94		0
	25	0	10.74	11.18	10.93		0
16QAM	1	0	10.96	11.25	10.90	0-1	0
	1	12	10.82	11.04	10.99		0
	1	24	11.06	11.15	10.97		0
	12	0	10.61	10.82	10.63	0-2	0
	12	6	10.53	10.84	10.72		0
	12	13	10.42	10.88	10.75		0
	25	0	10.43	10.80	10.72		0
64QAM	1	0	10.59	11.05	10.87	0-2	0
	1	12	10.69	11.19	11.10		0
	1	24	10.77	11.30	11.15		0
	12	0	10.54	10.83	10.64	0-3	0
	12	6	10.46	10.85	10.61		0
	12	13	10.42	10.79	10.74		0
	25	0	10.44	10.84	10.62		0

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 186 of 293

Table 8-275
LTE Band 7 Conducted Powers Ant 1A - 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	13.45	13.84	13.51	0	0
	1	50	13.60	13.53	13.20		0
	1	99	13.76	13.62	13.49		0
	50	0	13.50	13.63	13.41	0-1	0
	50	25	13.61	13.58	13.27		0
	50	50	13.59	13.64	13.40		0
	100	0	13.58	13.60	13.32		0
16QAM	1	0	13.50	13.64	13.62	0-1	0
	1	50	13.68	13.38	13.23		0
	1	99	13.82	13.54	13.45		0
	50	0	13.35	13.45	13.26	0-2	0
	50	25	13.38	13.38	13.11		0
	50	50	13.41	13.45	13.16		0
	100	0	13.36	13.36	13.15		0
64QAM	1	0	13.22	13.60	13.58	0-2	0
	1	50	13.43	13.39	13.31		0
	1	99	13.61	13.44	13.46		0
	50	0	13.26	13.41	13.20	0-3	0
	50	25	13.42	13.38	13.05		0
	50	50	13.45	13.43	13.15		0
	100	0	13.40	13.38	13.11		0

Table 8-276
LTE Band 7 Conducted Powers Ant 1A - 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	13.44	13.64	13.30	0	0
	1	36	13.65	13.63	13.28		0
	1	74	13.71	13.61	13.33		0
	36	0	13.35	13.68	13.31	0-1	0
	36	18	13.57	13.68	13.38		0
	36	37	13.67	13.69	13.40		0
	75	0	13.55	13.66	13.41		0
16QAM	1	0	13.69	13.86	13.71	0-1	0
	1	36	13.90	13.84	13.65		0
	1	74	13.90	13.80	13.61		0
	36	0	13.53	13.62	13.36	0-2	0
	36	18	13.75	13.62	13.43		0
	36	37	13.80	13.67	13.43		0
	75	0	13.61	13.61	13.43		0
64QAM	1	0	13.61	13.86	13.53	0-2	0
	1	36	13.87	13.82	13.55		0
	1	74	13.67	13.84	13.65		0
	36	0	13.46	13.71	13.35	0-3	0
	36	18	13.68	13.72	13.46		0
	36	37	13.74	13.72	13.47		0
	75	0	13.62	13.66	13.42		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 187 of 293

Table 8-277
LTE Band 7 Conducted Powers Ant 1A - 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	13.51	13.73	13.17	0	0
	1	25	13.43	13.69	13.25		0
	1	49	13.61	13.73	13.37		0
	25	0	13.49	13.83	13.35	0-1	0
	25	12	13.51	13.75	13.38		0
	25	25	13.64	13.79	13.43		0
	50	0	13.52	13.77	13.38		0
16QAM	1	0	13.59	13.90	13.39	0-1	0
	1	25	13.46	13.76	13.66		0
	1	49	13.90	13.90	13.72		0
	25	0	13.36	13.71	13.34	0-2	0
	25	12	13.43	13.71	13.37		0
	25	25	13.60	13.74	13.48		0
	50	0	13.42	13.69	13.42		0
64QAM	1	0	13.67	13.87	13.40	0-2	0
	1	25	13.43	13.77	13.49		0
	1	49	13.76	13.90	13.56		0
	25	0	13.46	13.71	13.35	0-3	0
	25	12	13.48	13.63	13.38		0
	25	25	13.61	13.67	13.46		0
	50	0	13.47	13.71	13.42		0

Table 8-278
LTE Band 7 Conducted Powers Ant 1A - 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	13.36	13.66	13.20	0	0
	1	12	13.28	13.54	13.27		0
	1	24	13.38	13.66	13.32		0
	12	0	13.31	13.44	13.30	0-1	0
	12	6	13.23	13.45	13.29		0
	12	13	13.23	13.48	13.36		0
	25	0	13.26	13.48	13.34		0
16QAM	1	0	13.65	13.90	13.50	0-1	0
	1	12	13.58	13.70	13.69		0
	1	24	13.73	13.90	13.71		0
	12	0	13.41	13.60	13.26	0-2	0
	12	6	13.37	13.63	13.27		0
	12	13	13.27	13.60	13.34		0
	25	0	13.35	13.57	13.23		0
64QAM	1	0	13.69	13.90	13.45	0-2	0
	1	12	13.70	13.58	13.42		0
	1	24	13.62	13.90	13.62		0
	12	0	13.37	13.65	13.28	0-3	0
	12	6	13.27	13.60	13.34		0
	12	13	13.35	13.64	13.32		0
	25	0	13.32	13.63	13.28		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 188 of 293

Table 8-279
LTE Band 7 Conducted Powers Ant 1A - 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	10.54	10.90	10.81	0	0
	1	50	10.74	10.67	10.37		0
	1	99	10.69	10.83	10.67		0
	50	0	10.77	10.66	10.60	0-1	0
	50	25	10.78	10.79	10.44		0
	50	50	10.76	10.76	10.53		0
	100	0	10.70	10.67	10.47		0
16QAM	1	0	10.50	10.77	10.53	0-1	0
	1	50	10.60	10.59	10.14		0
	1	99	10.57	10.74	10.31		0
	50	0	10.03	10.28	10.20	0-2	0
	50	25	10.10	10.27	10.10		0
	50	50	10.21	10.38	10.12		0
	100	0	10.10	10.22	10.08		0
64QAM	1	0	10.24	10.66	10.36	0-2	0
	1	50	10.30	10.59	9.85		0
	1	99	10.36	10.75	10.06		0
	50	0	10.15	10.29	10.10	0-3	0
	50	25	10.21	10.30	9.93		0
	50	50	10.30	10.46	9.97		0
	100	0	10.21	10.30	9.97		0

Table 8-280
LTE Band 7 Conducted Powers Ant 1A - 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	10.44	10.73	10.69	0	0
	1	36	10.44	10.79	10.43		0
	1	74	10.60	10.86	10.65		0
	36	0	10.53	10.88	10.48	0-1	0
	36	18	10.56	10.89	10.31		0
	36	37	10.64	10.89	10.43		0
	75	0	10.54	10.86	10.26		0
16QAM	1	0	10.42	10.66	10.37	0-1	0
	1	36	10.39	10.72	10.37		0
	1	74	10.47	10.80	10.46		0
	36	0	10.09	10.41	10.17	0-2	0
	36	18	10.13	10.45	10.04		0
	36	37	10.21	10.56	10.15		0
	75	0	10.11	10.42	10.01		0
64QAM	1	0	10.27	10.82	10.37	0-2	0
	1	36	10.23	10.64	10.26		0
	1	74	10.34	10.69	10.35		0
	36	0	10.26	10.27	10.23	0-3	0
	36	18	10.34	10.31	10.14		0
	36	37	10.36	10.41	10.22		0
	75	0	10.26	10.26	10.06		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 189 of 293

Table 8-281
LTE Band 7 Conducted Powers Ant 1A - 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	10.51	10.71	10.63	0	0
	1	25	10.45	10.68	10.62		0
	1	49	10.49		10.73		0
	25	0	10.58	10.85	10.48	0-1	0
	25	12	10.57	10.80	10.63		0
	25	25	10.53	10.89	10.78		0
	50	0	10.59	10.82	10.65		0
16QAM	1	0	10.39	10.46	10.39	0-1	0
	1	25	10.31	10.48	10.20		0
	1	49	10.32	10.63	10.38		0
	25	0	10.15	10.33	10.01	0-2	0
	25	12	10.20	10.27	10.09		0
	25	25	10.16	10.39	10.20		0
	50	0	10.23	10.30	10.09		0
64QAM	1	0	10.41	10.44	10.21	0-2	0
	1	25	10.21	10.54	10.11		0
	1	49	10.12	10.51	10.28		0
	25	0	10.19	10.32	10.02	0-3	0
	25	12	10.20	10.32	10.09		0
	25	25	10.18	10.33	10.22		0
	50	0	10.21	10.29	10.10		0

Table 8-282
LTE Band 7 Conducted Powers Ant 1A - 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	10.50	10.87	10.20	0	0
	1	12	10.40	10.90	10.28		0
	1	24	10.43	10.86	10.38		0
	12	0	10.41	10.77	10.36	0-1	0
	12	6	10.34	10.74	10.46		0
	12	13	10.38	10.77	10.50		0
	25	0	10.39	10.76	10.46		0
16QAM	1	0	10.35	10.76	10.08	0-1	0
	1	12	10.20	10.52	10.22		0
	1	24	10.08	10.63	10.28		0
	12	0	10.03	10.20	9.80	0-2	0
	12	6	9.94	10.22	9.87		0
	12	13	9.97	10.20	9.88		0
	25	0	9.91	10.19	9.86		0
64QAM	1	0	10.20	10.59	10.19	0-2	0
	1	12	10.09	10.31	10.32		0
	1	24	10.24	10.67	10.36		0
	12	0	10.04	10.27	9.87	0-3	0
	12	6	9.87	10.22	9.85		0
	12	13	9.93	10.18	9.86		0
	25	0	9.94	10.11	9.88		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 190 of 293

Table 8-283
LTE Band 7 Conducted Powers Ant 3A - 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	11.26	11.69	11.65	0	0
	1	50	11.40	11.62	11.31		0
	1	99	11.48	11.56	11.56		0
	50	0	11.50	11.61	11.41	0-1	0
	50	25	11.58	11.62	11.34		0
	50	50	11.60	11.61	11.38		0
	100	0	11.57	11.61	11.32		0
16QAM	1	0	11.62	11.48	11.87	0-1	0
	1	50	11.71	11.48	11.47		0
	1	99	11.66	11.67	11.78		0
	50	0	11.64	11.51	11.38	0-2	0
	50	25	11.62	11.56	11.31		0
	50	50	11.51	11.61	11.36		0
	100	0	11.60	11.54	11.29		0
64QAM	1	0	11.62	11.62	11.72	0-2	0
	1	50	11.75	11.58	11.37		0
	1	99	11.67	11.60	11.67		0
	50	0	11.56	11.52	11.37	0-3	0
	50	25	11.61	11.57	11.31		0
	50	50	11.53	11.58	11.35		0
	100	0	11.60	11.53	11.31		0

Table 8-284
LTE Band 7 Conducted Powers Ant 3A - 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	11.39	11.57	11.20	0	0
	1	36	11.49	11.63	11.23		0
	1	74	11.45	11.58	11.41		0
	36	0	11.62	11.52	11.27	0-1	0
	36	18	11.58	11.56	11.30		0
	36	37	11.62	11.55	11.39		0
	75	0	11.50	11.51	11.28		0
16QAM	1	0	11.62	11.65	11.51	0-1	0
	1	36	11.84	11.77	11.65		0
	1	74	11.77	11.74	11.70		0
	36	0	11.60	11.54	11.36	0-2	0
	36	18	11.61	11.58	11.37		0
	36	37	11.61	11.59	11.44		0
	75	0	11.57	11.56	11.35		0
64QAM	1	0	11.65	11.40	11.49	0-2	0
	1	36	11.71	11.46	11.43		0
	1	74	11.65	11.56	11.59		0
	36	0	11.59	11.56	11.36	0-3	0
	36	18	11.59	11.61	11.41		0
	36	37	11.61	11.57	11.49		0
	75	0	11.55	11.55	11.36		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 191 of 293

Table 8-285
LTE Band 7 Conducted Powers Ant 3A - 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	11.45	11.41	11.21	0	0
	1	25	11.43	11.40	11.25		0
	1	49	11.46	11.48	11.46		0
	25	0	11.61	11.51	11.31	0-1	0
	25	12	11.55	11.52	11.35		0
	25	25	11.49	11.54	11.54		0
	50	0	11.50	11.52	11.38		0
16QAM	1	0	11.65	11.84	11.32	0-1	0
	1	25	11.58	11.72	11.58		0
	1	49	11.87	11.80	11.78		0
	25	0	11.63	11.57	11.27	0-2	0
	25	12	11.57	11.64	11.34		0
	25	25	11.51	11.64	11.56		0
	50	0	11.52	11.65	11.34		0
64QAM	1	0	11.60	11.71	11.36	0-2	0
	1	25	11.60	11.82	11.43		0
	1	49	11.73	11.93	11.84		0
	25	0	11.56	11.67	11.28	0-3	0
	25	12	11.53	11.64	11.38		0
	25	25	11.51	11.68	11.58		0
	50	0	11.51	11.63	11.38		0

Table 8-286
LTE Band 7 Conducted Powers Ant 3A - 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	11.37	11.52	11.08	0	0
	1	12	11.52	11.46	11.25		0
	1	24	11.52	11.51	11.30		0
	12	0	11.31	11.47	11.31	0-1	0
	12	6	11.34	11.47	11.38		0
	12	13	11.42	11.47	11.39		0
	25	0	11.37	11.46	11.40		0
16QAM	1	0	11.81	11.63	11.61	0-1	0
	1	12	11.89	11.56	11.77		0
	1	24	11.75	11.50	11.76		0
	12	0	11.44	11.48	11.30	0-2	0
	12	6	11.54	11.45	11.44		0
	12	13	11.59	11.42	11.53		0
	25	0	11.47	11.40	11.40		0
64QAM	1	0	11.31	11.48	11.60	0-2	0
	1	12	11.63	11.51	11.81		0
	1	24	11.58	11.79	11.64		0
	12	0	11.29	11.39	11.26	0-3	0
	12	6	11.43	11.42	11.42		0
	12	13	11.42	11.37	11.48		0
	25	0	11.41	11.45	11.38		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 192 of 293

Table 8-287

LTE Band 7 Conducted Powers Ant 3A - 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	8.60	9.00	8.76	0	0
	1	50	8.68	8.93	8.51		0
	1	99	8.72	8.77	8.53		0
	50	0	8.65	8.52	8.56	0-1	0
	50	25	8.76	8.45	8.54		0
	50	50	8.71	8.62	8.57		0
	100	0	8.70	8.50	8.51		0
16QAM	1	0	8.54	8.84	9.00	0-1	0
	1	50	8.47	8.47	8.82		0
	1	99	8.72	8.53	8.79		0
	50	0	8.58	8.52	8.62	0-2	0
	50	25	8.67	8.51	8.52		0
	50	50	8.63	8.55	8.55		0
	100	0	8.61	8.47	8.50		0
64QAM	1	0	9.00	8.99	8.87	0-2	0
	1	50	8.98	8.66	8.58		0
	1	99	8.86	8.58	8.76		0
	50	0	8.55	8.54	8.62	0-3	0
	50	25	8.67	8.53	8.51		0
	50	50	8.63	8.55	8.55		0
	100	0	8.64	8.50	8.49		0

Table 8-288

LTE Band 7 Conducted Powers Ant 3A - 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	8.56	8.83	8.80	0	0
	1	36	8.46	8.82	8.67		0
	1	74	8.46	8.91	8.72		0
	36	0	8.66	8.71	8.82	0-1	0
	36	18	8.80	8.76	8.77		0
	36	37	8.84	8.77	8.80		0
	75	0	8.77	8.73	8.77		0
16QAM	1	0	8.51	8.89	8.69	0-1	0
	1	36	8.40	8.90	8.45		0
	1	74	8.29	9.00	8.62		0
	36	0	8.23	8.66	8.36	0-2	0
	36	18	8.37	8.72	8.29		0
	36	37	8.37	8.75	8.36		0
	75	0	8.37	8.68	8.33		0
64QAM	1	0	8.60	9.00	8.79	0-2	0
	1	36	8.19	8.92	8.41		0
	1	74	8.34	8.94	8.63		0
	36	0	8.23	8.70	8.40	0-3	0
	36	18	8.36	8.76	8.32		0
	36	37	8.31	8.73	8.37		0
	75	0	8.34	8.70	8.28		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 193 of 293

Table 8-289
LTE Band 7 Conducted Powers Ant 3A - 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	8.70	8.67	8.59	0	0
	1	25	8.47	8.67	8.66		0
	1	49	8.56	8.72	8.82		0
	25	0	8.53	8.78	8.65	0-1	0
	25	12	8.54	8.78	8.72		0
	25	25	8.76	8.78	8.86		0
	50	0	8.75	8.79	8.76		0
16QAM	1	0	8.73	8.79	8.52	0-1	0
	1	25	8.42	8.68	8.56		0
	1	49	8.54	8.79	8.62		0
	25	0	8.28	8.55	8.34	0-2	0
	25	12	8.26	8.56	8.39		0
	25	25	8.56	8.61	8.48		0
	50	0	8.48	8.57	8.41		0
64QAM	1	0	8.89	8.73	8.38	0-2	0
	1	25	8.62	8.76	8.47		0
	1	49	8.72	8.72	8.58		0
	25	0	8.44	8.60	8.37	0-3	0
	25	12	8.48	8.58	8.41		0
	25	25	8.55	8.62	8.51		0
	50	0	8.50	8.54	8.39		0

Table 8-290
LTE Band 7 Conducted Powers Ant 3A - 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	8.76	8.84	8.19	0	0
	1	12	8.53	8.84	8.22		0
	1	24	8.41	8.78	8.27		0
	12	0	8.49	8.75	8.31	0-1	0
	12	6	8.43	8.75	8.44		0
	12	13	8.34	8.79	8.45		0
	25	0	8.36	8.76	8.43		0
16QAM	1	0	8.97	8.63	8.50	0-1	0
	1	12	8.72	8.68	8.42		0
	1	24	8.46	8.65	8.57		0
	12	0	8.42	8.42	8.11	0-2	0
	12	6	8.32	8.38	8.21		0
	12	13	8.22	8.33	8.20		0
	25	0	8.11	8.39	8.11		0
64QAM	1	0	8.74	8.38	8.18	0-2	0
	1	12	8.29	8.62	8.46		0
	1	24	8.25	8.67	8.39		0
	12	0	8.41	8.39	8.00	0-3	0
	12	6	8.20	8.30	8.15		0
	12	13	8.11	8.43	8.16		0
	25	0	8.17	8.32	8.30		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 194 of 293

8.3.13

LTE Band 41

Table 8-291
LTE Band 41 Conducted Powers Ant 4 - 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	15.32	15.52	15.09	15.30	15.26	0	0
	1	50	15.37	15.36	15.16	15.27	15.16		0
	1	99	15.50	15.37	15.24	15.28	15.18		0
	50	0	15.36	15.49	15.21	15.32	15.26	0-1	0
	50	25	15.45	15.38	15.21	15.32	15.19		0
	50	50	15.48	15.37	15.22	15.36	15.18		0
	100	0	15.43	15.44	15.19	15.32	15.17		0
16QAM	1	0	15.45	15.37	15.33	15.34	15.16	0-1	0
	1	50	15.37	15.33	15.32	15.44	15.10		0
	1	99	15.51	15.27	15.34	15.35	15.11		0
	50	0	15.41	15.48	15.23	15.36	15.27	0-2	0
	50	25	15.48	15.40	15.24	15.38	15.23		0
	50	50	15.55	15.39	15.26	15.38	15.22		0
	100	0	15.48	15.34	15.22	15.35	15.20		0
64QAM	1	0	15.45	15.40	15.07	15.41	15.30	0-2	0
	1	50	15.51	15.34	15.11	15.38	15.23		0
	1	99	15.60	15.33	15.25	15.35	15.22		0
	50	0	15.50	15.46	15.25	15.41	15.31	0-3	0
	50	25	15.58	15.38	15.25	15.40	15.25		0
	50	50	15.60	15.37	15.27	15.42	15.26		0
	100	0	15.57	15.36	15.21	15.35	15.24		0

Table 8-292
LTE Band 41 Conducted Powers Ant 4 - 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	15.53	15.38	15.33	15.49	15.36	0	0
	1	36	15.60	15.52	15.53	15.57	15.47		0
	1	74	15.50	15.37	15.53	15.52	15.42		0
	36	0	15.57	15.44	15.37	15.55	15.41	0-1	0
	36	18	15.60	15.55	15.49	15.58	15.47		0
	36	37	15.54	15.49	15.48	15.60	15.40		0
	75	0	15.51	15.50	15.45	15.50	15.39		0
16QAM	1	0	15.55	15.29	15.35	15.49	15.35	0-1	0
	1	36	15.51	15.33	15.47	15.33	15.58		0
	1	74	15.54	15.23	15.42	15.44	15.41		0
	36	0	15.59	15.50	15.37	15.55	15.32	0-2	0
	36	18	15.59	15.57	15.49	15.58	15.45		0
	36	37	15.57	15.49	15.46	15.60	15.40		0
	75	0	15.54	15.47	15.43	15.55	15.41		0
64QAM	1	0	15.60	15.35	15.18	15.46	15.40	0-2	0
	1	36	15.60	15.57	15.58	15.44	15.58		0
	1	74	15.46	15.34	15.60	15.39	15.45		0
	36	0	15.55	15.50	15.41	15.53	15.44	0-3	0
	36	18	15.57	15.60	15.53	15.60	15.49		0
	36	37	15.54	15.56	15.46	15.60	15.42		0
	75	0	15.55	15.48	15.43	15.52	15.42		0

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 195 of 293

Table 8-293
LTE Band 41 Conducted Powers Ant 4 - 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	15.54	15.43	15.33	15.51	15.38	0	0
	1	25	15.55	15.51	15.40	15.58	15.40		0
	1	49	15.57	15.45	15.52	15.53	15.42		0
	25	0	15.57	15.55	15.33	15.55	15.42	0-1	1
	25	12	15.49	15.43	15.42	15.54	15.40		1
	25	25	15.50	15.41	15.43	15.60	15.40		1
	50	0	15.50	15.43	15.41	15.55	15.41		1
16QAM	1	0	15.51	15.17	15.58	15.44	15.36	0-1	1
	1	25	15.55	15.52	15.47	15.58	15.31		1
	1	49	15.57	15.28	15.55	15.51	15.47		1
	25	0	15.53	15.60	15.38	15.51	15.43	0-2	2
	25	12	15.52	15.55	15.44	15.54	15.43		2
	25	25	15.51	15.54	15.49	15.60	15.44		2
	50	0	15.52	15.55	15.43	15.54	15.41		2
64QAM	1	0	15.56	15.26	15.48	15.40	15.55	0-2	2
	1	25	15.53	15.49	15.48	15.50	15.45		2
	1	49	15.60	15.31	15.60	15.53	15.60		2
	25	0	15.60	15.60	15.38	15.54	15.46	0-3	3
	25	12	15.55	15.59	15.46	15.46	15.42		3
	25	25	15.55	15.45	15.48	15.54	15.43		3
	50	0	15.54	15.46	15.47	15.53	15.44		3

Table 8-294
LTE Band 41 Conducted Powers Ant 4 - 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	15.43	15.40	15.30	15.53	15.26	0	0
	1	12	15.52	15.49	15.38	15.50	15.38		0
	1	24	15.53	15.51	15.47	15.60	15.35		0
	12	0	15.38	15.43	15.24	15.40	15.30	0-1	0
	12	6	15.38	15.44	15.27	15.36	15.32		0
	12	13	15.38	15.33	15.25	15.35	15.31		0
	25	0	15.40	15.33	15.28	15.36	15.30		0
16QAM	1	0	15.38	15.37	15.46	15.54	15.25	0-1	0
	1	12	15.60	15.39	15.42	15.51	15.36		0
	1	24	15.56	15.36	15.48	15.49	15.35		0
	12	0	15.38	15.43	15.17	15.44	15.26	0-2	0
	12	6	15.31	15.44	15.23	15.42	15.29		0
	12	13	15.31	15.31	15.26	15.41	15.26		0
	25	0	15.33	15.34	15.20	15.38	15.28		0
64QAM	1	0	15.60	15.36	15.31	15.51	15.23	0-2	0
	1	12	15.41	15.53	15.42	15.55	15.47		0
	1	24	15.50	15.60	15.38	15.60	15.35		0
	12	0	15.41	15.52	15.26	15.38	15.36	0-3	0
	12	6	15.37	15.41	15.30	15.35	15.27		0
	12	13	15.45	15.35	15.22	15.30	15.24		0
	25	0	15.34	15.34	15.24	15.35	15.31		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 196 of 293

Table 8-295
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	16.48	16.18	16.01	16.25	16.28	0	0
	1	50	16.49	16.19	16.25	16.33	16.27		0
	1	99	16.56	16.37	16.30	16.36	16.21		0
	50	0	16.41	16.39	16.13	16.36	16.29	0-1	0
	50	25	16.42	16.37	16.25	16.39	16.30		0
	50	50	16.55	16.36	16.30	16.41	16.32		0
	100	0	16.54	16.31	16.25	16.36	16.34		0
16QAM	1	0	16.27	16.30	15.97	16.16	16.16	0-1	0
	1	50	16.21	16.12	16.01	16.23	16.17		0
	1	99	16.30	16.27	16.12	16.27	16.22		0
	50	0	16.29	16.57	16.07	16.29	16.08	0-2	0
	50	25	16.34	16.30	16.14	16.30	16.13		0
	50	50	16.37	16.26	16.17	16.32	16.18		0
	100	0	16.25	16.22	16.14	16.24	16.12		0
64QAM	1	0	16.26	16.14	15.99	16.18	16.07	0-2	0
	1	50	16.28	16.17	16.18	16.24	16.11		0
	1	99	16.31	16.25	16.23	16.35	16.15		0
	50	0	16.26	16.24	16.09	16.31	16.07	0-3	0
	50	25	16.28	16.28	16.17	16.32	16.13		0
	50	50	16.31	16.32	16.18	16.34	16.15		0
	100	0	16.21	16.25	16.17	16.28	16.13		0

Table 8-296
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	16.18	16.37	16.10	16.29	16.29	0	0
	1	36	16.36	16.34	16.17	16.33	16.32		0
	1	74	16.24	16.24	16.15	16.30	16.24		0
	36	0	16.30	16.35	16.22	16.35	16.39	0-1	0
	36	18	16.42	16.32	16.25	16.38	16.39		0
	36	37	16.40	16.24	16.22	16.34	16.36		0
	75	0	16.40	16.27	16.19	16.34	16.36		0
16QAM	1	0	16.26	16.22	16.20	16.32	16.24	0-1	0
	1	36	16.50	16.08	16.30	16.27	16.51		0
	1	74	16.27	16.08	16.30	16.14	16.42		0
	36	0	16.36	16.53	16.27	16.41	16.46	0-2	0
	36	18	16.51	16.39	16.30	16.39	16.44		0
	36	37	16.45	16.31	16.26	16.41	16.41		0
	75	0	16.46	16.34	16.24	16.39	16.40		0
64QAM	1	0	16.37	16.16	16.36	16.30	16.49	0-2	0
	1	36	16.50	16.18	16.35	16.22	16.41		0
	1	74	16.33	16.10	16.34	16.24	16.48		0
	36	0	16.37	16.40	16.25	16.40	16.45	0-3	0
	36	18	16.49	16.39	16.31	16.43	16.46		0
	36	37	16.45	16.29	16.26	16.42	16.42		0
	75	0	16.46	16.30	16.27	16.41	16.42		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 197 of 293

Table 8-297
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	16.44	16.29	16.33	16.33	16.37	0	0
	1	25	16.52	16.31	16.31	16.32	16.44		0
	1	49	16.48	16.30	16.32	16.34	16.47		0
	25	0	16.32	16.31	16.23	16.37	16.37	0-1	0
	25	12	16.43	16.30	16.22	16.36	16.36		0
	25	25	16.41	16.30	16.20	16.35	16.37		0
	50	0	16.41	16.29	16.22	16.35	16.37		0
16QAM	1	0	16.35	16.24	16.22	16.35	16.37	0-1	0
	1	25	16.47	16.33	16.30	16.23	16.33		0
	1	49	16.32	16.00	16.25	16.32	16.31		0
	25	0	16.37	16.36	16.29	16.41	16.40	0-2	0
	25	12	16.50	16.29	16.28	16.42	16.41		0
	25	25	16.43	16.38	16.31	16.40	16.39		0
	50	0	16.49	16.36	16.29	16.41	16.42		0
64QAM	1	0	16.45	16.39	16.20	16.35	16.40	0-2	0
	1	25	16.50	16.19	16.23	16.23	16.49		0
	1	49	16.53	16.18	16.23	16.32	16.48		0
	25	0	16.40	16.35	16.26	16.39	16.45	0-3	0
	25	12	16.47	16.38	16.30	16.39	16.42		0
	25	25	16.48	16.34	16.27	16.35	16.42		0
	50	0	16.46	16.37	16.27	16.39	16.44		0

Table 8-298
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	16.35	16.17	16.21	16.22	16.25	0	0
	1	12	16.44	16.27	16.21	16.20	16.38		0
	1	24	16.45	16.25	16.22	16.23	16.39		0
	12	0	16.29	16.16	16.06	16.20	16.24	0-1	0
	12	6	16.27	16.15	16.07	16.20	16.25		0
	12	13	16.28	16.17	16.06	16.22	16.23		0
	25	0	16.30	16.17	16.09	16.24	16.23		0
16QAM	1	0	16.45	16.17	16.12	16.24	16.23	0-1	0
	1	12	16.36	16.22	16.22	16.34	16.33		0
	1	24	16.29	16.19	16.15	16.35	16.42		0
	12	0	16.29	16.22	16.05	16.27	16.23	0-2	0
	12	6	16.28	16.15	16.05	16.30	16.19		0
	12	13	16.30	16.17	16.05	16.17	16.25		0
	25	0	16.28	16.16	16.07	16.24	16.22		0
64QAM	1	0	16.32	16.14	16.29	16.26	16.25	0-2	0
	1	12	16.39	16.29	16.04	16.27	16.40		0
	1	24	16.50	16.51	16.15	16.35	16.44		0
	12	0	16.32	16.22	16.07	16.22	16.25	0-3	0
	12	6	16.31	16.19	16.11	16.23	16.26		0
	12	13	16.36	16.22	16.13	16.22	16.28		0
	25	0	16.31	16.16	16.07	16.24	16.26		0

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 198 of 293

Table 8-299
LTE Band 41 Conducted Powers Ant 1A - 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	14.99	14.96	15.00	14.97	14.97	0	0
	1	50	14.90	14.94	14.97	14.99	14.96		0
	1	99	14.93	14.95	14.95	14.96	14.98		0
	50	0	14.98	14.87	15.00	14.91	14.95	0-1	0
	50	25	14.87	14.94	14.98	14.94	14.94		0
	50	50	14.86	14.92	14.97	14.89	14.94		0
	100	0	14.79	14.94	14.97	14.96	14.93		0
16QAM	1	0	14.77	14.68	14.80	14.89	14.85	0-1	0
	1	50	14.60	14.75	14.85	14.84	14.93		0
	1	99	14.63	14.71	14.83	14.77	15.00		0
	50	0	14.63	14.45	14.58	14.72	14.66	0-2	0
	50	25	14.43	14.54	14.53	14.67	14.74		0
	50	50	14.46	14.49	14.54	14.66	14.75		0
	100	0	14.37	14.53	14.51	14.65	14.67		0
64QAM	1	0	14.60	14.54	14.60	14.77	14.67	0-2	0
	1	50	14.37	14.56	14.56	14.61	14.72		0
	1	99	14.44	14.61	14.73	14.64	14.70		0
	50	0	14.71	14.53	14.64	14.77	14.68	0-3	0
	50	25	14.47	14.62	14.60	14.74	14.77		0
	50	50	14.51	14.58	14.62	14.74	14.78		0
	100	0	14.41	14.60	14.56	14.70	14.73		0

Table 8-300
LTE Band 41 Conducted Powers Ant 1A - 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	14.99	14.76	14.85	14.97	14.90	0	0
	1	36	14.82	14.92	14.93	14.99	14.97		0
	1	74	14.82	14.76	14.95	14.93	14.96		0
	36	0	14.94	14.88	14.95	14.97	14.99	0-1	0
	36	18	14.86	14.98	14.98	14.98	15.00		0
	36	37	14.91	14.88	14.97	14.99	14.99		0
	75	0	14.79	14.94	14.94	15.00	14.98		0
16QAM	1	0	14.83	14.46	14.74	14.66	14.63	0-1	0
	1	36	14.60	14.69	14.77	14.70	14.90		0
	1	74	14.60	14.52	14.80	14.57	14.72		0
	36	0	14.72	14.70	14.76	14.83	14.76	0-2	0
	36	18	14.63	14.81	14.78	14.84	14.87		0
	36	37	14.67	14.71	14.76	14.85	14.85		0
	75	0	14.57	14.76	14.74	14.78	14.84		0
64QAM	1	0	14.92	14.54	14.74	14.69	14.65	0-2	0
	1	36	14.62	14.68	14.81	14.76	14.94		0
	1	74	14.66	14.57	14.83	14.59	14.84		0
	36	0	14.73	14.71	14.75	14.84	14.77	0-3	0
	36	18	14.65	14.81	14.80	14.86	14.88		0
	36	37	14.70	14.71	14.78	14.88	14.85		0
	75	0	14.58	14.75	14.76	14.79	14.85		0

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 199 of 293

Table 8-301
LTE Band 41 Conducted Powers Ant 1A - 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	15.00	14.96	14.98	14.99	14.95	0	0
	1	25	14.88	14.98	14.98	14.97	14.99		0
	1	49	14.95	14.93	15.00	14.97	15.00		0
	25	0	14.86	14.97	14.95	14.96	14.97	0-1	0
	25	12	14.83	14.96	14.94	14.95	14.98		0
	25	25	14.90	14.95	14.97	15.00	14.94		0
	50	0	14.83	14.96	14.95	14.99	15.00		0
16QAM	1	0	14.82	14.62	14.78	14.80	14.78	0-1	0
	1	25	14.62	14.63	14.78	14.76	14.87		0
	1	49	14.64	14.62	14.74	14.82	14.81		0
	25	0	14.71	14.80	14.82	14.90	14.91	0-2	0
	25	12	14.68	14.80	14.81	14.88	14.90		0
	25	25	14.73	14.81	14.83	14.93	14.91		0
	50	0	14.67	14.81	14.83	14.88	14.91		0
64QAM	1	0	14.89	14.62	14.82	14.89	14.85	0-2	0
	1	25	14.66	14.63	14.82	14.77	14.96		0
	1	49	14.71	14.65	14.86	14.79	14.93		0
	25	0	14.71	14.81	14.84	14.89	14.92	0-3	0
	25	12	14.68	14.82	14.84	14.85	14.91		0
	25	25	14.75	14.82	14.84	14.90	14.93		0
	50	0	14.69	14.82	14.83	14.87	14.91		0

Table 8-302
LTE Band 41 Conducted Powers Ant 1A - 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	14.86	14.86	14.99	14.90	14.90	0	0
	1	12	14.76	14.96	14.99	14.85	14.97		0
	1	24	14.85	14.99	15.00	14.93	15.00		0
	12	0	14.63	14.85	14.86	14.86	14.90	0-1	0
	12	6	14.64	14.84	14.85	14.84	14.90		0
	12	13	14.68	14.86	14.86	14.83	14.92		0
	25	0	14.66	14.86	14.86	14.86	14.90		0
16QAM	1	0	14.65	14.68	14.82	14.68	14.77	0-1	0
	1	12	14.50	14.68	14.78	14.65	14.74		0
	1	24	14.61	14.68	14.89	14.68	14.87		0
	12	0	14.41	14.63	14.66	14.67	14.70	0-2	0
	12	6	14.40	14.67	14.66	14.62	14.67		0
	12	13	14.45	14.67	14.65	14.62	14.70		0
	25	0	14.41	14.63	14.65	14.62	14.69		0
64QAM	1	0	14.63	14.73	14.87	14.63	14.95	0-2	0
	1	12	14.51	14.78	14.77	14.64	14.85		0
	1	24	14.66	14.87	14.81	14.88	14.90		0
	12	0	14.47	14.69	14.68	14.63	14.75	0-3	0
	12	6	14.47	14.70	14.73	14.63	14.74		0
	12	13	14.49	14.60	14.73	14.63	14.72		0
	25	0	14.42	14.65	14.67	14.63	14.70		0

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 200 of 293

Table 8-303
LTE Band 41 Conducted Powers Ant 3A - 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	14.20	13.92	14.01	14.15	13.92	0	0
	1	50	14.00	13.99	14.07	13.96	13.98		0
	1	99	13.87	14.05	14.08	13.92	14.03		0
	50	0	14.12	13.92	14.09	14.08	13.94	0-1	0
	50	25	14.03	13.95	14.07	13.94	14.04		0
	50	50	13.93	14.08	14.08	13.94	14.03		0
	100	0	13.84	13.97	14.08	13.99	13.98		0
16QAM	1	0	13.98	13.81	13.84	13.72	13.76	0-1	0
	1	50	13.99	13.71	13.70	13.75	13.70		0
	1	99	13.94	13.88	13.95	13.67	13.81		0
	50	0	13.97	13.85	13.88	13.83	13.76	0-2	0
	50	25	13.88	13.78	13.82	13.75	13.69		0
	50	50	13.85	13.77	13.79	13.67	13.71		0
	100	0	13.75	13.75	13.72	13.69	13.64		0
64QAM	1	0	14.11	13.74	13.81	13.78	13.69	0-2	0
	1	50	13.92	13.98	13.71	13.65	13.63		0
	1	99	13.75	13.68	13.85	13.62	13.74		0
	50	0	13.95	13.82	13.74	13.80	13.75	0-3	0
	50	25	13.80	13.79	13.73	13.72	13.70		0
	50	50	13.85	13.81	13.75	13.66	13.74		0
	100	0	13.73	13.76	13.71	13.69	13.63		0

Table 8-304
LTE Band 41 Conducted Powers Ant 3A - 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	13.75	14.19	14.20	14.08	0	0
	1	36	14.02	13.97	14.17	14.03	14.13		0
	1	74	13.94	13.99	14.15	13.93	14.11		0
	36	0	14.16	13.89	14.20	14.13	14.09	0-1	0
	36	18	14.15	14.01	14.19	14.07	14.16		0
	36	37	14.12	14.00	14.18	13.99	14.14		0
	75	0	14.02	13.99	14.17	14.05	14.13		0
16QAM	1	0	14.10	13.86	14.10	14.16	14.04	0-1	0
	1	36	13.85	13.96	14.11	14.04	14.14		0
	1	74	13.93	13.93	14.07	13.89	14.05		0
	36	0	14.05	14.02	14.20	14.19	14.12	0-2	0
	36	18	14.12	14.09	14.18	14.11	14.17		0
	36	37	14.13	14.05	14.19	13.99	14.17		0
	75	0	14.07	14.06	14.18	14.11	14.12		0
64QAM	1	0	14.15	13.84	14.14	14.15	13.93	0-2	0
	1	36	13.91	13.86	14.13	14.00	14.02		0
	1	74	13.91	13.84	13.91	13.85	13.86		0
	36	0	13.93	13.78	14.06	14.02	13.94	0-3	0
	36	18	14.00	13.85	14.05	13.98	14.01		0
	36	37	13.93	13.88	14.04	13.89	13.99		0
	75	0	13.93	13.84	14.03	13.93	13.97		0

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 201 of 293

Table 8-305
LTE Band 41 Conducted Powers Ant 3A - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.99	13.89	14.05	14.00	13.94	0	0
	1	25	13.87	13.84	13.98	13.90	13.96		0
	1	49	13.86	13.85	14.00	13.84	13.95		0
	25	0	13.88	13.88	14.05	13.97	13.97	0-1	0
	25	12	13.90	13.89	14.01	13.96	13.99		0
	25	25	13.91	13.92	14.02	13.88	13.98		0
	50	0	13.87	13.89	14.03	13.94	13.99		0
16QAM	1	0	13.83	13.69	13.83	13.91	13.82	0-1	0
	1	25	13.80	13.69	13.84	13.78	13.90		0
	1	49	13.67	13.82	13.85	13.72	13.81		0
	25	0	13.83	13.82	13.99	13.97	13.98	0-2	0
	25	12	13.88	13.83	13.98	13.95	13.96		0
	25	25	13.89	13.85	13.92	13.82	13.94		0
	50	0	13.86	13.81	13.94	13.91	13.97		0
64QAM	1	0	13.93	13.76	14.13	14.00	13.93	0-2	0
	1	25	13.92	13.81	13.98	13.97	14.01		0
	1	49	13.85	13.80	14.02	13.65	13.95		0
	25	0	13.83	13.80	13.98	13.95	13.95	0-3	0
	25	12	13.87	13.82	13.90	13.93	14.04		0
	25	25	13.90	13.90	13.95	13.81	14.00		0
	50	0	13.88	13.83	13.97	13.92	13.97		0

Table 8-306
LTE Band 41 Conducted Powers Ant 3A - 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	13.93	14.20	14.07	14.11	0	0
	1	12	14.10	13.88	14.19	14.03	14.10		0
	1	24	14.08	13.99	14.20	13.95	14.13		0
	12	0	14.02	13.83	14.18	14.02	14.07	0-1	0
	12	6	14.05	13.85	14.17	14.00	14.06		0
	12	13	14.08	13.87	14.17	13.95	14.07		0
	25	0	14.04	13.86	14.14	13.96	14.08	0	
16QAM	1	0	13.90	13.91	14.05	13.90	13.83	0-1	0
	1	12	13.98	13.95	14.08	13.75	13.79		0
	1	24	13.88	14.13	13.96	13.81	13.82		0
	12	0	13.86	13.92	14.08	13.79	13.77	0-2	0
	12	6	13.89	13.91	14.09	13.78	13.76		0
	12	13	13.86	13.90	14.14	13.77	13.72		0
	25	0	13.86	13.86	14.09	13.79	13.75	0	
64QAM	1	0	13.99	13.89	14.19	13.93	13.82	0-2	0
	1	12	14.09	13.99	14.13	13.72	13.99		0
	1	24	14.04	14.09	14.18	13.65	13.90		0
	12	0	13.84	13.89	14.07	13.77	13.85	0-3	0
	12	6	13.92	13.95	14.03	13.78	13.87		0
	12	13	13.87	13.97	14.06	13.79	13.82		0
	25	0	13.84	13.92	14.05	13.76	13.81		0

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 202 of 293

8.3.14

LTE Band 41 PC2

Table 8-307
LTE Band 41 PC2 Conducted Powers Ant 4 - 20 MHz Bandwidth (QPSK)

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	15.35	15.43	15.08	15.36	15.23	0	0
	1	50	15.42	15.32	15.12	15.37	15.14		0
	1	99	15.54	15.29	15.21	15.38	15.14		0
	50	0	15.44	15.47	15.19	15.30	15.27	0-1	0
	50	25	15.26	15.39	15.20	15.32	15.21		0
	50	50	15.29	15.37	15.23	15.32	15.20		0
	100	0	15.24	15.36	15.21	15.28	15.18		0
	Conducted Power [dBm]								

Table 8-308
LTE Band 41 PC2 Conducted Powers Ant 2A - 20 MHz Bandwidth (QPSK)

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	16.15	16.14	16.08	16.12	16.01	0	0
	1	50	16.13	16.12	16.17	16.21	16.09		0
	1	99	16.07	16.04	16.26	16.30	16.10		0
	50	0	16.25	16.24	16.01	16.26	16.07	0-1	0
	50	25	16.15	16.19	16.08	16.27	16.15		0
	50	50	16.19	16.16	16.06	16.28	16.16		0
	100	0	16.16	16.13	16.04	16.22	16.12		0
	Conducted Power [dBm]								

Table 8-309
LTE Band 41 PC2 Conducted Powers Ant 1A - 20 MHz Bandwidth (QPSK)

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	14.86	14.75	14.92	15.00	14.90	0	0
	1	50	14.72	14.76	14.83	14.96	14.95		0
	1	99	14.74	14.80	14.90	14.89	14.97		0
	50	0	14.83	14.65	14.82	14.95	14.70	0-1	0
	50	25	14.61	14.73	14.78	14.91	14.88		0
	50	50	14.63	14.70	14.79	14.91	14.90		0
	100	0	14.53	14.71	14.76	14.89	14.86		0
	Conducted Power [dBm]								

Table 8-310
LTE Band 41 PC2 Conducted Powers Ant 3A - 20 MHz Bandwidth (QPSK)

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	14.20	14.01	14.05	14.15	13.90	0	0
	1	50	14.03	14.05	14.01	14.01	14.02		0
	1	99	13.97	14.01	14.09	13.89	14.07		0
	50	0	14.14	13.87	14.00	14.03	13.88	0-1	0
	50	25	13.98	14.01	13.99	13.97	13.98		0
	50	50	13.92	13.93	14.01	13.87	14.00		0
	100	0	13.90	13.92	13.99	13.95	14.01		0
	Conducted Power [dBm]								

FCC ID: BCGA2324



SAR EVALUATION REPORT

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Quality Manager

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1C2004270029-01-R2.BCG

Test Dates:

07/27/2020 – 08/18/2020

DUT Type:

Tablet Device

Page 203 of 293

8.3.15

LTE Band 48

Table 8-311
LTE Band 48 Conducted Powers Ant 4 - 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	16.48	16.41	16.42	16.30	0	0
	1	50	16.45	16.30	16.24	16.25		0
	1	99	16.43	16.40	16.39	16.33		0
	50	0	16.39	16.31	16.27	16.25	0-1	0
	50	25	16.50	16.27	16.27	16.16		0
	50	50	16.43	16.30	16.31	16.26		0
	100	0	16.35	16.33	16.34	16.24		0
16QAM	1	0	16.43	16.49	16.45	16.19	0-1	0
	1	50	16.45	16.45	16.29	16.17		0
	1	99	16.50	16.50	16.49	16.50		0
	50	0	16.37	16.23	16.13	16.17	0-2	0
	50	25	16.50	16.23	16.16	16.09		0
	50	50	16.43	16.29	16.22	16.20		0
	100	0	16.50	16.31	16.28	16.16		0
64QAM	1	0	16.17	16.10	16.34	16.13	0-2	0
	1	50	16.27	16.00	16.04	16.05		0
	1	99	16.31	16.11	16.33	16.23		0
	50	0	16.10	15.97	15.91	15.97	0-3	0
	50	25	16.25	15.99	15.90	16.00		0
	50	50	16.14	16.04	16.05	15.85		0
	100	0	16.33	16.02	16.04	15.98		0

Table 8-312
LTE Band 48 Conducted Powers Ant 4 - 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	16.07	16.16	16.14	16.05	0	0
	1	36	16.25	16.19	16.08	15.95		0
	1	74	16.29	16.27	16.20	16.08		0
	36	0	16.29	16.23	16.22	16.17	0-1	0
	36	18	16.43	16.26	16.24	16.18		0
	36	37	16.46	16.26	16.23	16.17		0
	75	0	16.46	16.28	16.25	16.19		0
16QAM	1	0	16.30	16.07	16.13	16.22	0-1	0
	1	36	16.44	16.20	16.06	16.19		0
	1	74	16.50	16.31	16.28	16.33		0
	36	0	16.23	16.18	16.15	16.11	0-2	0
	36	18	16.38	16.17	16.17	16.10		0
	36	37	16.38	16.18	16.18	16.08		0
	75	0	16.44	16.23	16.23	16.16		0
64QAM	1	0	16.24	16.17	16.15	16.25	0-2	0
	1	36	16.43	16.29	15.99	16.45		0
	1	74	16.50	16.42	16.17	16.30		0
	36	0	16.21	16.18	16.19	16.10	0-3	0
	36	18	16.32	16.20	16.21	16.12		0
	36	37	16.31	16.22	16.21	16.09		0
	75	0	16.41	16.26	16.22	16.18		0

FCC ID: BCGA2324		SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 204 of 293

Table 8-313
LTE Band 48 Conducted Powers Ant 4 - 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	16.40	16.39	16.29	16.28	0	0
	1	25	16.17	16.15	16.03	16.09		0
	1	49	16.50	16.35	16.24	16.27		0
	25	0	16.33	16.27	16.20	16.18	0-1	0
	25	12	16.31	16.20	16.17	16.12		0
	25	25	16.48	16.30	16.24	16.18		0
	50	0	16.44	16.31	16.26	16.24		0
16QAM	1	0	16.29	16.21	16.07	16.49	0-1	0
	1	25	16.18	16.06	15.98	15.97		0
	1	49	16.50	16.29	16.40	16.39		0
	25	0	16.16	16.13	16.07	16.04	0-2	0
	25	12	16.18	16.10	15.99	16.01		0
	25	25	16.34	16.18	16.10	16.01		0
	50	0	16.41	16.23	16.19	16.15		0
64QAM	1	0	16.15	16.28	16.09	16.28	0-2	0
	1	25	16.28	15.88	15.74	15.89		0
	1	49	16.48	16.47	16.23	16.47		0
	25	0	16.24	16.14	16.11	16.06	0-3	0
	25	12	16.23	16.07	16.06	16.06		0
	25	25	16.40	16.19	16.21	16.10		0
	50	0	16.43	16.28	16.19	16.27		0

Table 8-314
LTE Band 48 Conducted Powers Ant 4 - 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	16.26	16.34	16.25	16.24	0	0
	1	12	16.08	16.25	16.14	15.94		0
	1	24	16.26	16.50	16.36	16.11		0
	12	0	16.17	16.15	16.09	16.15	0-1	0
	12	6	16.18	16.06	16.05	16.06		0
	12	13	16.25	16.19	16.14	16.12		0
25	0	16.30	16.27	16.21	16.30	0		
16QAM	1	0	16.13	16.15	16.11	16.07	0-1	0
	1	12	15.90	15.89	15.92	15.90		0
	1	24	16.25	16.17	16.23	16.26		0
	12	0	15.86	15.90	16.00	15.81	0-2	0
	12	6	15.72	15.95	15.99	15.66		0
	12	13	15.84	16.01	15.99	15.81		0
25	0	16.16	16.18	16.10	16.06	0		
64QAM	1	0	16.30	16.12	16.05	16.10	0-2	0
	1	12	16.09	16.01	15.74	16.06		0
	1	24	16.26	16.36	16.09	16.25		0
	12	0	16.15	15.85	15.96	16.08	0-3	0
	12	6	16.13	15.78	15.87	15.97		0
	12	13	16.13	15.79	15.88	15.96		0
25	0	16.17	16.16	16.07	16.14	0		

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 205 of 293

Table 8-315
LTE Band 48 Conducted Powers Ant 3B - 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	15.46	15.52	15.49	15.55	0	0
	1	50	15.49	15.36	15.31	15.48		0
	1	99	15.50	15.58	15.46	15.67		0
	50	0	15.54	15.43	15.38	15.45	0-1	0
	50	25	15.58	15.38	15.37	15.48		0
	50	50	15.48	15.46	15.35	15.59		0
100	0	15.48	15.44	15.45	15.56	0		
16QAM	1	0	15.47	15.70	15.61	15.49	0-1	0
	1	50	15.52	15.58	15.41	15.51		0
	1	99	15.48	15.69	15.55	15.61		0
	50	0	15.45	15.39	15.36	15.39	0-2	0
	50	25	15.44	15.34	15.29	15.45		0
	50	50	15.36	15.42	15.31	15.48		0
100	0	15.59	15.43	15.39	15.54	0		
64QAM	1	0	15.47	15.55	15.46	15.57	0-2	0
	1	50	15.53	15.41	15.27	15.48		0
	1	99	15.63	15.62	15.49	15.67		0
	50	0	15.48	15.38	15.35	15.37	0-3	0
	50	25	15.51	15.31	15.30	15.43		0
	50	50	15.40	15.37	15.32	15.49		0
100	0	15.59	15.43	15.40	15.54	0		

Table 8-316
LTE Band 48 Conducted Powers Ant 3B - 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	15.30	15.45	15.38	15.45	0	0
	1	36	15.41	15.40	15.31	15.53		0
	1	74	15.42	15.47	15.35	15.41		0
	36	0	15.39	15.37	15.34	15.47	0-1	0
	36	18	15.50	15.39	15.35	15.57		0
	36	37	15.53	15.39	15.36	15.52		0
	75	0	15.57	15.44	15.40	15.64		0
16QAM	1	0	15.51	15.23	15.33	15.53	0-1	0
	1	36	15.64	15.28	15.42	15.69		0
	1	74	15.59	15.31	15.42	15.49		0
	36	0	15.34	15.28	15.29	15.41	0-2	0
	36	18	15.43	15.31	15.29	15.49		0
	36	37	15.45	15.33	15.30	15.44		0
	75	0	15.53	15.39	15.35	15.58		0
64QAM	1	0	15.30	15.25	15.26	15.49	0-2	0
	1	36	15.55	15.21	15.29	15.65		0
	1	74	15.50	15.32	15.36	15.70		0
	36	0	15.31	15.29	15.30	15.40	0-3	0
	36	18	15.42	15.31	15.30	15.50		0
	36	37	15.44	15.33	15.31	15.43		0
	75	0	15.51	15.35	15.35	15.56		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 206 of 293

Table 8-317
LTE Band 48 Conducted Powers Ant 3B - 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	15.55	15.57	15.52	15.80	0	0
	1	25	15.46	15.35	15.28	15.56		0
	1	49	15.76	15.59	15.49	15.74		0
	25	0	15.53	15.53	15.47	15.70	0-1	0
	25	12	15.56	15.46	15.42	15.60		0
	25	25	15.63	15.54	15.50	15.60		0
	50	0	15.68	15.56	15.50	15.70		0
16QAM	1	0	15.47	15.29	15.29	15.64	0-1	0
	1	25	15.51	15.30	15.20	15.54		0
	1	49	15.79	15.50	15.60	15.67		0
	25	0	15.32	15.41	15.35	15.58	0-2	0
	25	12	15.48	15.37	15.24	15.47		0
	25	25	15.49	15.44	15.35	15.44		0
	50	0	15.60	15.49	15.41	15.63		0
64QAM	1	0	15.80	15.39	15.43	15.80	0-2	0
	1	25	15.61	15.33	15.20	15.47		0
	1	49	15.80	15.40	15.44	15.78		0
	25	0	15.41	15.38	15.38	15.59	0-3	0
	25	12	15.45	15.34	15.27	15.50		0
	25	25	15.54	15.39	15.40	15.47		0
	50	0	15.56	15.51	15.45	15.66		0

Table 8-318
LTE Band 48 Conducted Powers Ant 3B - 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	15.57	15.51	15.53	0	0
	1	12	15.22	15.25	15.27	15.28		0
	1	24	15.40	15.56	15.44	15.43		0
	12	0	15.30	15.31	15.29	15.56	0-1	0
	12	6	15.26	15.22	15.22	15.37		0
	12	13	15.32	15.35	15.27	15.44		0
	25	0	15.46	15.41	15.38	15.55		0
16QAM	1	0	15.57	15.44	15.38	15.62	0-1	0
	1	12	15.25	15.30	15.26	15.44		0
	1	24	15.64	15.54	15.62	15.51		0
	12	0	15.20	15.38	15.37	15.43	0-2	0
	12	6	15.23	15.28	15.26	15.23		0
	12	13	15.22	15.38	15.33	15.28		0
	25	0	15.48	15.48	15.43	15.62		0
64QAM	1	0	15.34	15.42	15.68	15.70	0-2	0
	1	12	15.22	15.25	15.20	15.34		0
	1	24	15.32	15.41	15.50	15.50		0
	12	0	15.23	15.20	15.53	15.38	0-3	0
	12	6	15.23	15.24	15.44	15.27		0
	12	13	15.23	15.25	15.55	15.22		0
	25	0	15.36	15.33	15.21	15.43		0

FCC ID: BCGA2324	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 207 of 293

8.3.16 LTE Uplink Carrier Aggregation Conducted Powers

Table 8-319
LTE Uplink Carrier Aggregation Conducted Powers – Ant 4

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	20.93	20.80
	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	2850	2630	QPSK	100	0	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	100	0	13.20	13.62
	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)		LTE Single Carrier Tx Power (dBm)			
CA 41C	LTE B41	20	39750	2506.0	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	15.52		15.48			
	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)				
CA 41C	LTE B41 PC2	20	39750	2506.0	QPSK	50	50	LTE B41 PC2	20	39948	2525.8	QPSK	50	0	15.29	15.29				

Table 8-320
LTE Uplink Carrier Aggregation Conducted Powers – Ant 3B

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								Power		
										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	17.55	17.76

Table 8-321
LTE Uplink Carrier Aggregation Conducted Powers – Ant 2A

PCC										SCC										Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 7C	LTE B7	20	20850	2510	2850	2630	QPSK	100	0	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	100	0	14.40	14.18	
Combination	PCC								SCC								Power				
	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	40185	2549.5	QPSK	1	99	LTE B41	20	40383	2569.3	QPSK	1	0	15.90	16.37					
Combination	PCC								SCC								Power				
	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	40185	2549.5	QPSK	1	99	LTE B41 PC2	20	40383	2569.3	QPSK	1	0	15.79	16.04					

Table 8-322
LTE Uplink Carrier Aggregation Conducted Powers – Ant 1A

	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	13.60	13.59		
	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	41490	2680.0	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	14.30	14.95						

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 208 of 293

Combination	PCC							SCC							Power	
	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	41490	2680.0	QPSK	50	0	LTE B41 PC2	20	41292	2660.2	QPSK	50	50	14.45	14.70

Table 8-323
LTE Uplink Carrier Aggregation Conducted Powers – Ant 3A

	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	11.35	11.41		
	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	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	13.72	14.08						
	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	1	99	LTE B41 PC2	20	40818	2612.8	QPSK	1	0	13.77	14.09						

Notes:

1. This device supports uplink carrier aggregation for LTE CA_7C, LTE CA_5B and LTE CA_41C 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.

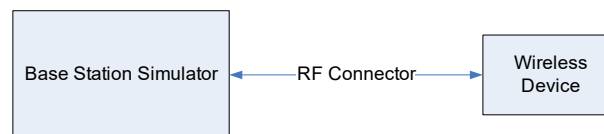


Figure 8-3
Power Measurement Setup

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 209 of 293

8.4 WLAN Maximum Time-Averaged Conducted Powers

Table 8-324
2.4 GHz WLAN Maximum Time-Average RF Power – Ant 3A, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	11.69	11.78	11.75	11.77
2437	6	11.80	11.80	11.71	11.78
2462	11	11.73	11.82	11.68	11.75

Table 8-325
2.4 GHz WLAN Maximum Time-Average RF Power – Ant 3A, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	11.59	11.58	11.61	11.50
2437	6	11.65	11.60	11.66	11.58
2462	11	11.63	11.75	11.68	11.69

Table 8-326
2.4 GHz WLAN Maximum Time-Average RF Power – Ant 1A, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	12.28	12.21	12.24	12.22
2417	2	N/A	N/A	N/A	12.45
2437	6	12.30	12.38	12.44	12.28
2457	10	N/A	N/A	N/A	12.40
2462	11	12.31	12.38	12.37	12.32

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 210 of 293

Table 8-327
2.4 GHz WLAN Maximum Time-Average RF Power – Ant 1A, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	12.20	12.17	12.24	12.29
2417	2	N/A	N/A	N/A	12.34
2437	6	12.23	12.27	12.30	12.36
2457	10	N/A	N/A	N/A	12.20
2462	11	12.35	12.22	12.27	12.26

Table 8-328
5 GHz WLAN Maximum Time-Average RF Power – Ant 2A, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	9.35	9.42
5290	58	9.27	9.17
5530	106	9.16	9.33
5610	122	9.14	9.02
5690	138	9.07	9.15
5775	155	10.18	10.27

Table 8-329
5 GHz WLAN Maximum Time-Average RF Power – Ant 2A, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	9.52	9.54
5290	58	9.21	9.29
5530	106	9.04	9.12
5610	122	9.02	9.14
5690	138	8.84	9.00
5775	155	10.30	10.38

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 211 of 293

Table 8-330
5 GHz WLAN Maximum Time-Average RF Power – Ant 2B, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	8.63	8.57
5290	58	10.52	10.51
5530	106	10.24	10.25
5610	122	10.25	10.23
5690	138	10.20	10.04
5775	155	9.39	9.47

Table 8-331
5 GHz WLAN Maximum Time-Average RF Power – Ant 2B, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	8.54	8.68
5290	58	10.54	10.41
5530	106	10.15	10.00
5610	122	10.25	10.22
5690	138	10.22	10.15
5775	155	9.05	9.25

Table 8-332
5 GHz WLAN Maximum Time-Average RF Power – Ant 1B, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	10.30	10.39
5290	58	9.04	9.05
5530	106	9.27	9.51
5610	122	9.36	9.47
5690	138	9.25	9.43
5775	155	9.27	9.50

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 212 of 293

Table 8-333
5 GHz WLAN Maximum Time-Average RF Power – Ant 1B, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	10.25	10.41
5290	58	8.94	9.14
5530	106	9.09	9.24
5610	122	9.31	9.37
5690	138	9.30	9.37
5775	155	9.18	9.27

Table 8-334
5 GHz WLAN Maximum Time-Average RF Power – Ant 1B and 2B MIMO, Variant 1

5GHz (80MHz) Conducted Power [dBm]						
Freq [MHz]	Channel	IEEE Transmission Mode				
		802.11ac			802.11ax (SU)	
		Ant 1b Average	Ant 2b Average	MIMO	Ant 1b Average	Ant 2b Average
5210	42	10.57	9.54	13.10	10.54	9.54
5290	58	8.79	10.57	12.78	8.76	10.58
5530	106	9.36	9.35	12.37	9.45	9.52
5610	122	9.17	9.19	12.19	9.15	9.26
5690	138	9.21	9.22	12.23	9.22	9.17
5775	155	9.39	8.86	12.14	9.41	9.06

Table 8-335
5 GHz WLAN Maximum Time-Average RF Power – Ant 1B and 2B MIMO, Variant 2

5GHz (80MHz) Conducted Power [dBm]						
Freq [MHz]	Channel	IEEE Transmission Mode				
		802.11ac			802.11ax (SU)	
		Ant 1b Average	Ant 2b Average	MIMO	Ant 1b Average	Ant 2b Average
5210	42	10.52	9.48	13.04	10.58	9.64
5290	58	8.81	10.60	12.81	8.85	10.77
5530	106	9.37	9.40	12.40	9.48	9.46
5610	122	9.30	9.21	12.27	9.46	9.31
5690	138	9.34	9.35	12.36	9.33	9.45
5775	155	9.32	9.32	12.33	9.42	9.53

FCC ID: BCGA2324		SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 213 of 293

Table 8-336
5 GHz WLAN Maximum Time-Average RF Power – Ant 2B and 2A MIMO, Variant 1

5GHz (80MHz) Conducted Power [dBm]						
Freq [MHz]	Channel	IEEE Transmission Mode				
		802.11ac			802.11ax (SU)	
		Ant 2a Average	Ant 2b Average	MIMO	Ant 2a Average	Ant 2b Average
5210	42	9.81	9.63	12.73	9.98	9.65
5290	58	8.80	10.87	12.97	8.95	10.88
5530	106	9.97	9.61	12.80	10.06	9.52
5610	122	9.91	9.72	12.83	10.21	9.88
5690	138	9.81	9.79	12.81	9.91	9.78
5775	155	10.33	9.28	12.85	10.41	9.20

Table 8-337
5 GHz WLAN Maximum Time-Average RF Power – Ant 2B and 2A MIMO, Variant 2

5GHz (80MHz) Conducted Power [dBm]						
Freq [MHz]	Channel	IEEE Transmission Mode				
		802.11ac			802.11ax (SU)	
		Ant 2a Average	Ant 2b Average	MIMO	Ant 2a Average	Ant 2b Average
5210	42	9.80	9.84	12.83	9.22	9.70
5290	58	8.80	10.70	12.86	8.90	10.89
5530	106	9.91	9.60	12.77	9.90	9.81
5610	122	9.81	9.44	12.64	9.81	9.61
5690	138	9.84	9.66	12.76	9.74	9.82
5775	155	10.27	9.25	12.80	10.05	9.14

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 214 of 293

8.5 WLAN Reduced Conducted Powers

Table 8-338
2.4 GHz WLAN Reduced Time-Average RF Power – Ant 3A, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	5.95	5.18	5.20	5.33
2437	6	5.92	5.10	5.12	5.15
2462	11	5.89	5.06	5.08	5.25

Table 8-339
2.4 GHz WLAN Reduced Time-Average RF Power – Ant 3A, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	5.94	5.14	5.18	5.24
2437	6	5.96	5.00	5.01	5.30
2462	11	5.81	5.17	5.17	5.22

Table 8-340
2.4 GHz WLAN Reduced Time-Average RF Power – Ant 1A, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	6.72	5.88	5.90	5.82
2437	6	6.58	5.96	5.95	5.91
2462	11	6.64	5.89	5.90	5.80

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 215 of 293

Table 8-341
2.4 GHz WLAN Reduced Time-Average RF Power – Ant 1A, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	6.67	5.95	5.94	5.77
2437	6	6.63	6.00	6.02	5.92
2462	11	6.72	5.90	5.87	6.20

Table 8-342
5 GHz WLAN Reduced Time-Average RF Power – Ant 2A, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	3.48	2.80
5290	58	2.72	2.27
5530	106	3.73	3.11
5610	122	3.70	3.13
5690	138	3.58	3.01
5775	155	4.04	3.60

Table 8-343
5 GHz WLAN Reduced Time-Average RF Power – Ant 2A, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	3.38	3.37
5290	58	2.61	2.66
5530	106	3.65	3.40
5610	122	3.62	3.28
5690	138	3.56	3.30
5775	155	4.09	3.77

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 216 of 293

Table 8-344
5 GHz WLAN Reduced Time-Average RF Power – Ant 2B, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	3.38	3.24
5290	58	4.35	4.02
5530	106	3.12	3.25
5610	122	3.21	3.25
5690	138	3.14	3.25
5775	155	2.45	2.75

Table 8-345
5 GHz WLAN Reduced Time-Average RF Power – Ant 2B, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	3.45	3.45
5290	58	4.43	3.64
5530	106	3.09	3.24
5610	122	3.22	3.24
5690	138	3.21	3.24
5775	155	2.71	2.74

Table 8-346
5 GHz WLAN Reduced Time-Average RF Power – Ant 1B, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	4.42	4.15
5290	58	2.72	2.75
5530	106	3.23	2.89
5610	122	3.19	2.74
5690	138	3.21	2.80
5775	155	3.09	2.86

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 217 of 293

Table 8-347
5 GHz WLAN Reduced Time-Average RF Power – Ant 1B, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	4.42	4.22
5290	58	2.37	2.74
5530	106	3.09	3.24
5610	122	3.22	3.24
5690	138	3.24	3.24
5775	155	3.14	3.24

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 218 of 293

8.5.1

WLAN Power Reduction Verification Summary

Table 8-348
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]	Reduced Target Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
					[Tolerance [dB]]	[Tolerance [dB]]	[dBm]	[dBm]	
Ant 1A	2.4 GHz WLAN	Main Band 1A ON	13.75	6.75	12.25 (+1.5/-1.5)	5.25 (+1.5/-1.5)	12.70	5.40	PASS
	2.4 GHz WLAN	Interband ULCA ON	13.75	6.75	12.25 (+1.5/-1.5)	5.25 (+1.5/-1.5)	12.70	5.62	PASS
Ant 3A	2.4 GHz WLAN	Main Band 3A/3B ON	13.00	6.00	11.50 (+1.5/-1.5)	4.50 (+1.5/-1.5)	12.00	4.99	PASS
	2.4 GHz WLAN	Interband ULCA ON	13.00	6.00	11.50 (+1.5/-1.5)	4.50 (+1.5/-1.5)	12.00	5.15	PASS
Ant 1B	5 GHz WLAN	Main Band 1A ON	11.50	4.50	10.00 (+1.5/-1.5)	3.00 (+1.5/-1.5)	11.06	3.03	PASS
	5 GHz WLAN	Interband ULCA ON	11.50	4.50	10.00 (+1.5/-1.5)	3.00 (+1.5/-1.5)	10.51	3.76	PASS
Ant 2B	5 GHz WLAN	Main Band 2A ON	11.50	4.50	10.00 (+1.5/-1.5)	3.00 (+1.5/-1.5)	9.72	3.00	PASS
	5 GHz WLAN	Interband ULCA ON	11.50	4.50	10.00 (+1.5/-1.5)	3.00 (+1.5/-1.5)	9.72	2.09	PASS
Ant 2A	5 GHz WLAN	Main Band 2A ON	11.25	4.25	9.75 (+1.5/-1.5)	2.75 (+1.5/-1.5)	11.21	3.04	PASS
	5 GHz WLAN	Interband ULCA ON	11.25	4.25	9.75 (+1.5/-1.5)	2.75 (+1.5/-1.5)	11.21	4.30	PASS

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

8.5.2

Notes for WLAN

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- The WLAN chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the identical mechanical structure to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- The worst case configurations were evaluated for both variant 1 and variant 2. The variant with highest report SAR value was selected for remaining test configurations.

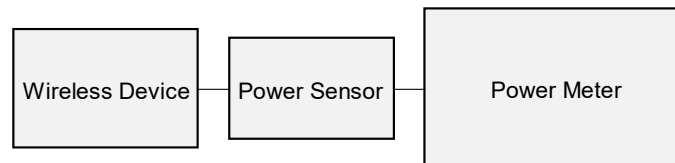


Figure 8-4
Power Measurement Setup

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 219 of 293

8.6 Bluetooth Maximum Conducted Powers

Table 8-349
Bluetooth Maximum Average RF Power – Ant 3A, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.62	18.281
2441	GFSK	1.0	39	12.27	16.866
2480	GFSK	1.0	78	12.30	16.982

Table 8-350
Bluetooth Maximum Average RF Power – Ant 3A, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.52	17.865
2441	GFSK	1.0	39	12.28	16.904
2480	GFSK	1.0	78	12.36	17.219

Table 8-351
Bluetooth Maximum Average RF Power – Ant 1A, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.70	18.621
2441	GFSK	1.0	39	13.10	20.417
2480	GFSK	1.0	78	13.46	22.182

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 220 of 293

Table 8-352
Bluetooth Maximum Average RF Power – Ant 1A, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.65	18.408
2441	GFSK	1.0	39	12.78	18.967
2480	GFSK	1.0	78	12.22	16.672

8.7 Bluetooth Reduced Conducted Powers

Table 8-353
Bluetooth Reduced Average RF Power – Ant 3A, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.37	4.335
2441	GFSK	1.0	39	6.69	4.667
2480	GFSK	1.0	78	6.27	4.236

Table 8-354
Bluetooth Reduced Average RF Power – Ant 3A, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.68	4.656
2441	GFSK	1.0	39	6.58	4.550
2480	GFSK	1.0	78	6.37	4.335

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 221 of 293

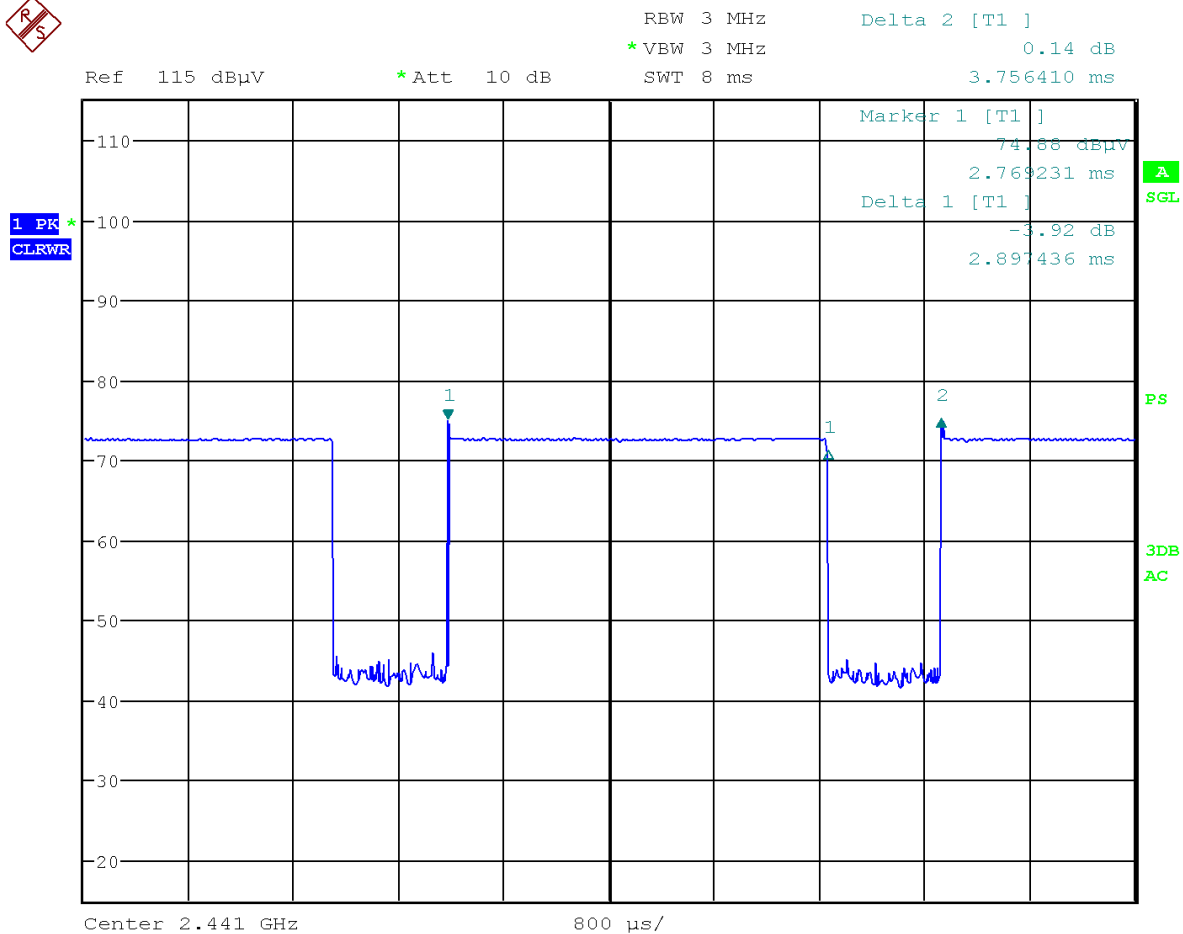
Table 8-355
Bluetooth Reduced Average RF Power – Ant 1A, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.56	4.529
2441	GFSK	1.0	39	6.50	4.467
2480	GFSK	1.0	78	6.17	4.140

Table 8-356
Bluetooth Reduced Average RF Power – Ant 1A, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.67	4.645
2441	GFSK	1.0	39	6.51	4.477
2480	GFSK	1.0	78	6.64	4.613

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 222 of 293



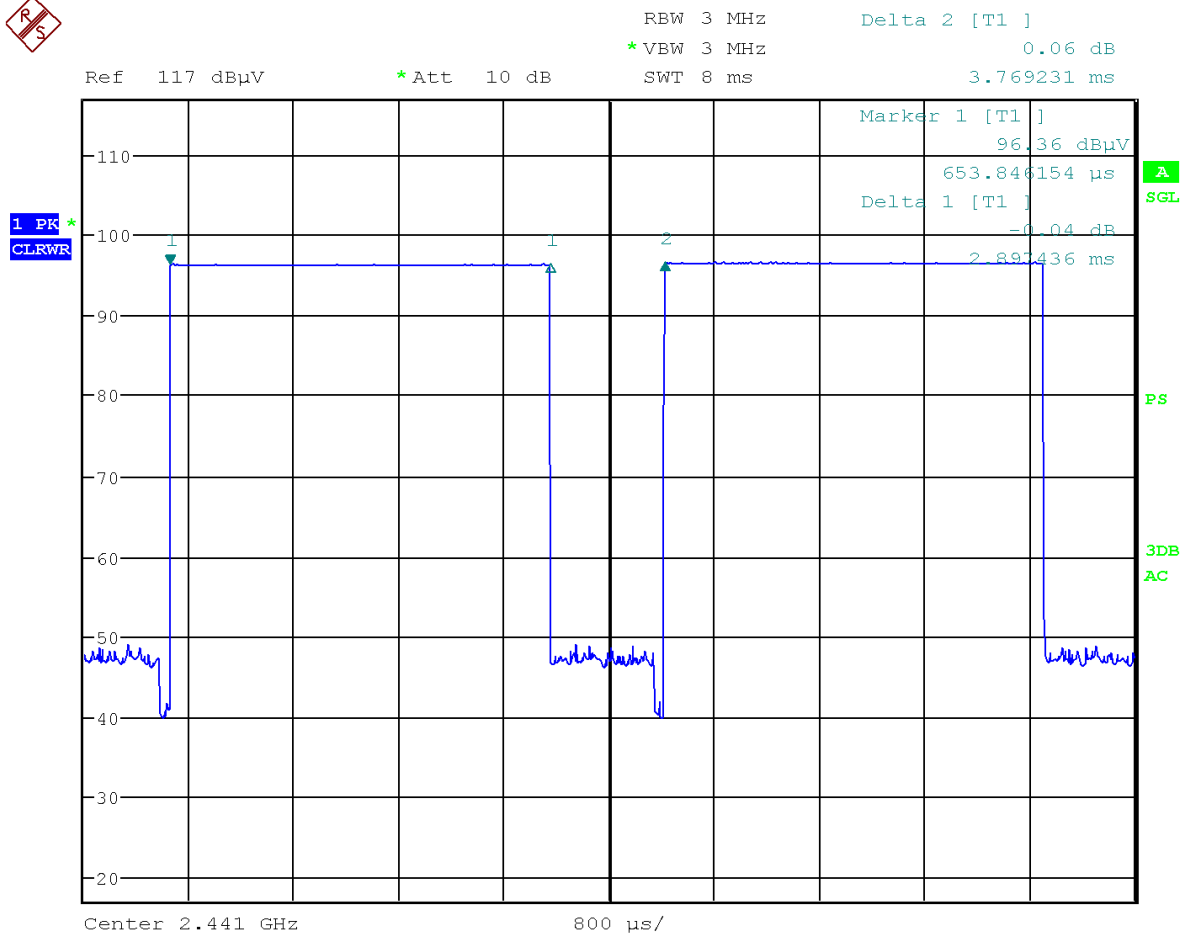
Date: 1.JAN.2003 03:41:10

Figure 8-5
Bluetooth Transmission Plot – Ant 3A – Variant 1

Equation 8-1
Bluetooth Duty Cycle Calculation – Ant 3A – Variant 1

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

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 223 of 293



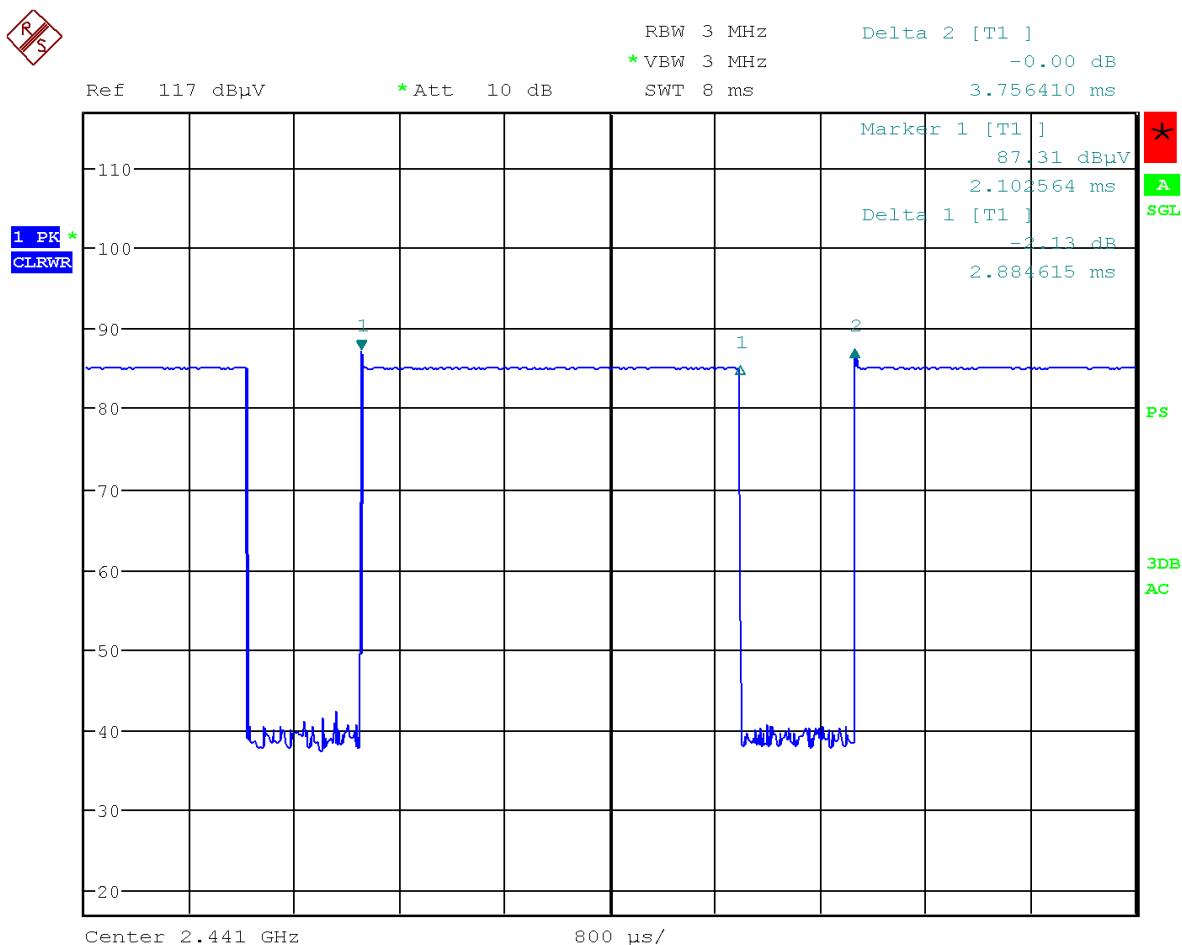
Date: 1.JAN.2003 03:38:44

Figure 8-6
Bluetooth Transmission Plot – Ant 1A – Variant 1

Equation 8-2
Bluetooth Duty Cycle Calculation – Ant 1A – Variant 1

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

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 224 of 293



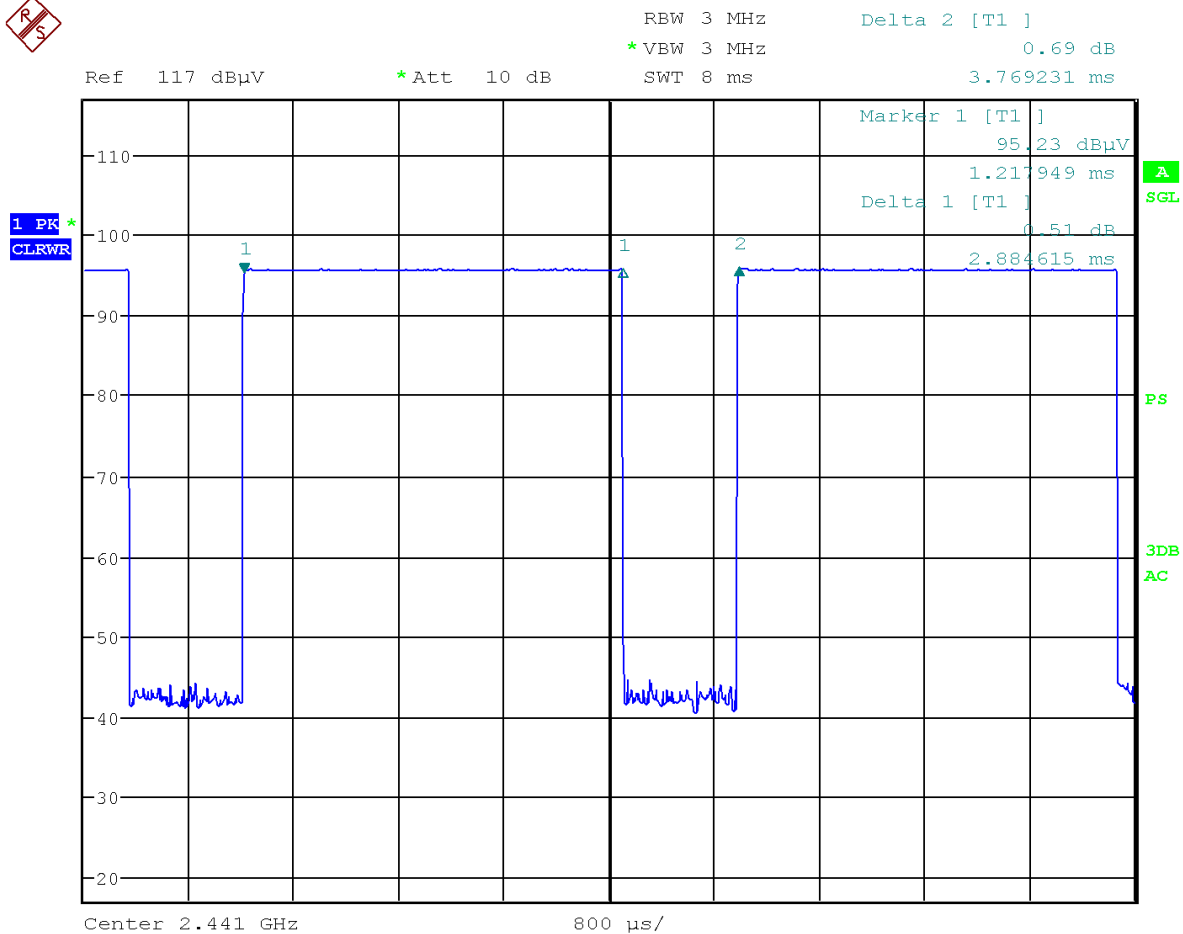
Date: 1.JAN.2003 03:43:58

Figure 8-7
Bluetooth Transmission Plot – Ant 3A – Variant 2

Equation 8-3
Bluetooth Duty Cycle Calculation – Ant 3A – Variant 2

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

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 225 of 293



Date: 1.JAN.2003 03:45:43

Figure 8-8
Bluetooth Transmission Plot – Ant 1A – Variant 2

Equation 8-4
Bluetooth Duty Cycle Calculation – Ant 1A – Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8846\text{ms}}{3.7692\text{ms}} * 100\% = 76.5\%$$

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 226 of 293

8.8 Bluetooth Power Reduction Verification Summary

Table 8-357
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]	Reduced Target Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
					(Tolerance [dB])	(Tolerance [dB])	[dBm]	[dBm]	
ANT1A	2.4 GHz Bluetooth	Main Band ANT 1A ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.13	5.12	PASS
	2.4 GHz Bluetooth	5 GHz Ant 1B/2B/2A WLAN ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.13	5.17	PASS
	2.4 GHz Bluetooth	5 GHz Ant 1b and 2b MIMO WLAN ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.13	5.11	PASS
	2.4 GHz Bluetooth	5 GHz Ant 2B and 2A MIMO WLAN ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.13	5.20	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.13	5.35	PASS
ANT3A	2.4 GHz Bluetooth	Main Band ANT 3A/3B ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.00	5.20	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.00	5.21	PASS

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

8.8.1 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.

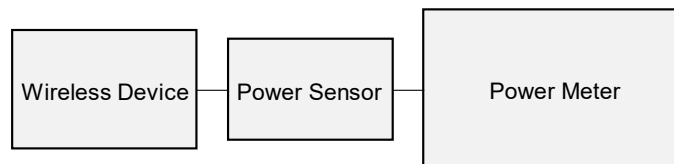


Figure 8-9
Power Measurement Setup

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 227 of 293

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 – 1g

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} (%)
AM8	750	BODY	07/29/2020	20.5	20.3	0.200	1097	7532	1.730	8.560	8.650	1.05%
AM8	750	BODY	07/31/2020	22.1	19.4	0.200	1097	7532	1.770	8.560	8.850	3.39%
AM6	835	BODY	07/27/2020	22.5	21.5	0.200	4d180	3837	2.040	9.590	10.200	6.36%
AM4	850	BODY	07/27/2020	22.5	22.1	0.200	1010	7421	2.120	10.200	10.600	3.92%
AM4	850	BODY	07/29/2020	22.7	22.5	0.200	1010	7421	2.120	10.200	10.600	3.92%
AM1	1750	BODY	07/30/2020	23.3	21.8	0.100	1104	7427	3.950	36.600	39.500	7.92%
AM1	1750	BODY	08/03/2020	22.9	20.9	0.100	1104	7427	3.900	36.600	39.000	6.56%
AM1	1750	BODY	08/13/2020	22.5	21.0	0.100	1092	7427	3.830	36.400	38.300	5.22%
AM7	1900	BODY	07/28/2020	22.1	23.5	0.100	5d181	7490	3.930	39.500	39.300	-0.51%
AM7	1900	BODY	08/07/2020	22.5	24.0	0.100	5d181	7490	3.880	39.500	38.800	-1.77%
AM6	1900	BODY	08/09/2020	20.5	20.4	0.100	5d030	3837	4.290	39.900	42.900	7.52%
AM5	2300	BODY	07/27/2020	22.5	21.5	0.100	1038	7416	4.970	46.700	49.700	6.42%
AM5	2450	BODY	07/31/2020	21.1	20.1	0.100	921	7416	5.010	50.800	50.100	-1.38%
AM5	2450	BODY	08/05/2020	20.8	19.8	0.100	750	7416	4.930	51.000	49.300	-3.33%
AM8	2450	BODY	08/10/2020	22.4	22.1	0.100	945	7532	5.170	49.400	51.700	4.66%
AM5	2450	BODY	08/13/2020	22.1	21.5	0.100	750	7416	5.090	51.000	50.900	-0.20%
AM5	2600	BODY	07/31/2020	21.1	20.1	0.100	1069	7416	5.380	55.300	53.800	-2.71%
AM5	2600	BODY	08/05/2020	20.8	19.8	0.100	1042	7416	5.350	55.200	53.500	-3.08%
AM4	3500	BODY	08/03/2020	19.5	20.0	0.100	1055	7421	6.170	65.000	61.700	-5.08%
AM4	3700	BODY	08/03/2020	19.5	20.0	0.100	1002	7421	6.210	64.700	62.100	-4.02%
AM2	5250	BODY	08/18/2020	21.9	21.5	0.050	1123	7420	3.480	74.000	69.600	-5.95%
AM2	5600	BODY	08/18/2020	21.9	21.5	0.050	1123	7420	4.000	77.600	80.000	3.09%
AM2	5750	BODY	08/18/2020	21.9	21.5	0.050	1123	7420	3.530	74.700	70.600	-5.49%

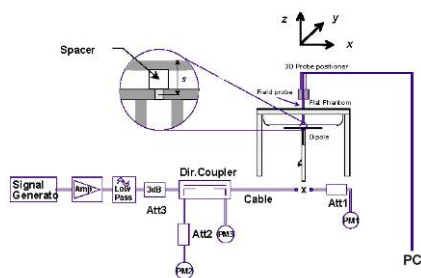


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 229 of 293

10 SAR DATA SUMMARY

10.1 Standalone SAR Data

Table 10-1
GPRS 850 MHz Ant 4 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	SAR (10g)	Reported SAR	Plot #
MHz	Ch.													(W/kg)		(1g) (W/kg)	(10g) (W/kg)		
824.20	128	GSM 850	GPRS	28.2	28.18	-0.04	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	back	1.130	1.005	1.136	0.569	0.572	A1
836.60	190	GSM 850	GPRS	28.2	28.18	0.07	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	back	1.050	1.005	1.055	0.520	0.523	
848.80	251	GSM 850	GPRS	28.2	28.15	-0.02	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	back	0.983	1.012	0.995	0.481	0.487	
824.20	128	GSM 850	GPRS	28.2	28.18	0.00	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	top	0.949	1.005	0.954	0.427	0.429	
836.60	190	GSM 850	GPRS	28.2	28.18	0.02	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	top	0.883	1.005	0.887	0.414	0.416	
848.80	251	GSM 850	GPRS	28.2	28.15	0.02	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	top	0.931	1.012	0.942	0.415	0.420	
836.60	190	GSM 850	GPRS	28.2	28.18	0.09	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	bottom	0.022	1.005	0.022	0.009	0.009	
836.60	190	GSM 850	GPRS	28.2	28.18	0.00	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	right	0.040	1.005	0.040	0.021	0.021	
824.20	128	GSM 850	GPRS	28.2	28.18	-0.02	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	left	0.879	1.005	0.883	0.363	0.365	
836.60	190	GSM 850	GPRS	28.2	28.18	0.06	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	left	0.936	1.005	0.941	0.397	0.399	
848.80	251	GSM 850	GPRS	28.2	28.15	0.03	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	left	0.947	1.012	0.958	0.405	0.410	
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 10-2
GPRS 850 MHz Ant 3B 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)		
824.20	128	GSM 850	GPRS	24.8	24.74	0.13	Body	0 mm	Ant 3B	DLXD1010QBMV	2	1:4.15	back	1.040	1.014	1.055	0.524	0.531	
836.60	190	GSM 850	GPRS	24.8	24.69	0.11	Body	0 mm	Ant 3B	DLXD1010QBMV	2	1:4.15	back	1.060	1.026	1.088	0.536	0.550	
848.80	251	GSM 850	GPRS	24.8	24.72	0.16	Body	0 mm	Ant 3B	DLXD1010QBMV	2	1:4.15	back	1.090	1.019	1.111	0.549	0.559	
824.20	128	GSM 850	GPRS	24.8	24.74	-0.03	Body	0 mm	Ant 3B	DLXD1010QBMV	2	1:4.15	top	0.925	1.014	0.938	0.425	0.431	
836.60	190	GSM 850	GPRS	24.8	24.69	0.00	Body	0 mm	Ant 3B	DLXD1010QBMV	2	1:4.15	top	0.884	1.026	0.907	0.401	0.411	
848.80	251	GSM 850	GPRS	24.8	24.72	-0.02	Body	0 mm	Ant 3B	DLXD1010QBMV	2	1:4.15	top	0.852	1.019	0.868	0.383	0.390	
836.60	190	GSM 850	GPRS	24.8	24.69	0.00	Body	0 mm	Ant 3B	DLXD1010QBMV	2	1:4.15	bottom	0.005	1.026	0.005	0.001	0.001	
836.60	190	GSM 850	GPRS	24.8	24.69	0.00	Body	0 mm	Ant 3B	DLXD1010QBMV	2	1:4.15	right	0.032	1.026	0.033	0.015	0.015	
836.60	190	GSM 850	GPRS	24.8	24.69	0.00	Body	0 mm	Ant 3B	DLXD1010QBMV	2	1:4.15	left	0.026	1.026	0.027	0.011	0.011	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-3
GPRS 1900 MHz Ant 4 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)		
1850.20	512	GSM 1900	GPRS	23.0	22.81	-0.02	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	back	1.120	1.045	1.170	0.430	0.449	A2
1880.00	661	GSM 1900	GPRS	23.0	22.84	-0.02	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	back	1.090	1.038	1.131	0.416	0.432	
1908.80	810	GSM 1900	GPRS	23.0	22.84	-0.03	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	back	1.090	1.038	1.131	0.412	0.428	
1880.00	661	GSM 1900	GPRS	23.0	22.84	-0.02	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	top	0.533	1.038	0.553	0.220	0.228	
1880.00	661	GSM 1900	GPRS	23.0	22.84	0.00	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	bottom	0.000	1.038	0.000	0.000	0.000	
1880.00	661	GSM 1900	GPRS	23.0	22.84	0.19	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	right	0.017	1.038	0.018	0.008	0.008	
1880.00	661	GSM 1900	GPRS	23.0	22.84	-0.08	Body	0 mm	Ant 4	DLXD100Q8BMQ	2	1:4.15	left	0.231	1.038	0.240	0.081	0.084	
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: BCGA2324		SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 230 of 293

Table 10-4
GPRS 1900 MHz Ant 2A Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)		(W/kg)	(W/kg)		
1850.20	512	GSM 1900	GPRS	21.2	20.96	0.01	Body	0 mm	Ant 2A	DLXD100Q8BMQ	2	1:4.15	back	0.928	1.052	0.976	0.418	0.440	
1880.00	661	GSM 1900	GPRS	21.2	20.86	-0.05	Body	0 mm	Ant 2A	DLXD100Q8BMQ	2	1:4.15	back	0.888	1.081	0.960	0.399	0.431	
1909.80	810	GSM 1900	GPRS	21.2	20.70	0.00	Body	0 mm	Ant 2A	DLXD100Q8BMQ	2	1:4.15	back	0.922	1.122	1.034	0.405	0.454	
1880.00	661	GSM 1900	GPRS	21.2	20.86	0.05	Body	0 mm	Ant 2A	DLXD100Q8BMQ	2	1:4.15	top	0.019	1.081	0.021	0.009	0.010	
1880.00	661	GSM 1900	GPRS	21.2	20.86	-0.16	Body	0 mm	Ant 2A	DLXD100Q8BMQ	2	1:4.15	bottom	0.541	1.081	0.585	0.179	0.193	
1880.00	661	GSM 1900	GPRS	21.2	20.86	-0.07	Body	0 mm	Ant 2A	DLXD100Q8BMQ	2	1:4.15	right	0.666	1.081	0.720	0.258	0.279	
1880.00	661	GSM 1900	GPRS	21.2	20.86	0.02	Body	0 mm	Ant 2A	DLXD100Q8BMQ	2	1:4.15	left	0.001	1.081	0.001	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																			

Table 10-5
GPRS 1900 MHz Ant 1A 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)		
1850.20	512	GSM 1900	GPRS	22.0	21.78	0.01	Body	0 mm	Ant 1A	DLXD100Q8BMQ	2	1:4.15	back	0.947	1.052	0.996	0.440	0.463	
1880.00	661	GSM 1900	GPRS	22.0	21.70	-0.07	Body	0 mm	Ant 1A	DLXD100Q8BMQ	2	1:4.15	back	0.981	1.072	1.052	0.454	0.487	
1909.80	810	GSM 1900	GPRS	22.0	21.76	0.02	Body	0 mm	Ant 1A	DLXD100Q8BMQ	2	1:4.15	back	0.987	1.057	1.043	0.484	0.512	
1880.00	661	GSM 1900	GPRS	22.0	21.70	0.08	Body	0 mm	Ant 1A	DLXD100Q8BMQ	2	1:4.15	top	0.018	1.072	0.019	0.008	0.009	
1880.00	661	GSM 1900	GPRS	22.0	21.70	-0.08	Body	0 mm	Ant 1A	DLXD100Q8BMQ	2	1:4.15	bottom	0.478	1.072	0.512	0.166	0.178	
1880.00	661	GSM 1900	GPRS	22.0	21.70	0.00	Body	0 mm	Ant 1A	DLXD100Q8BMQ	2	1:4.15	right	0.000	1.072	0.000	0.000	0.000	
1850.20	512	GSM 1900	GPRS	22.0	21.78	-0.02	Body	0 mm	Ant 1A	DLXD100Q8BMQ	2	1:4.15	left	0.869	1.052	0.914	0.337	0.355	
1880.00	661	GSM 1900	GPRS	22.0	21.70	-0.02	Body	0 mm	Ant 1A	DLXD100Q8BMQ	2	1:4.15	left	0.950	1.072	1.018	0.373	0.400	
1909.80	810	GSM 1900	GPRS	22.0	21.76	0.00	Body	0 mm	Ant 1A	DLXD100Q8BMQ	2	1:4.15	left	1.100	1.057	1.163	0.428	0.452	
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 3A 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)	Pilot #
MHz	Ch.																		
1880.00	661	GSM 1900	GPRS	20.4	20.24	-0.04	Body	0 mm	Ant 3A	DLXD101Q8BMV	2	1:4.15	back	0.515	1.038	0.535	0.242	0.251	
1880.00	661	GSM 1900	GPRS	20.4	20.24	-0.07	Body	0 mm	Ant 3A	DLXD101Q8BMV	2	1:4.15	top	0.384	1.038	0.399	0.128	0.133	
1880.00	661	GSM 1900	GPRS	20.4	20.24	0.14	Body	0 mm	Ant 3A	DLXD101Q8BMV	2	1:4.15	bottom	0.006	1.038	0.006	0.002	0.002	
1850.20	512	GSM 1900	GPRS	20.4	20.26	-0.08	Body	0 mm	Ant 3A	DLXD101Q8BMV	2	1:4.15	right	0.844	1.033	0.872	0.344	0.355	
1880.00	661	GSM 1900	GPRS	20.4	20.24	-0.09	Body	0 mm	Ant 3A	DLXD101Q8BMV	2	1:4.15	right	0.829	1.038	0.861	0.329	0.342	
1909.80	810	GSM 1900	GPRS	20.4	20.29	-0.07	Body	0 mm	Ant 3A	DLXD101Q8BMV	2	1:4.15	right	0.810	1.026	0.831	0.319	0.327	
1880.00	661	GSM 1900	GPRS	20.4	20.24	0.02	Body	0 mm	Ant 3A	DLXD101Q8BMV	2	1:4.15	left	0.005	1.038	0.005	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 10-7
UMTS 850 MHz Ant 4 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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pilot #	
MHz	Ch.																	
826.40	4132	UMTS 850	RMC	21.1	20.95	0.02	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	back	1.100	1.035	1.139	0.444	0.460	A3
836.60	4183	UMTS 850	RMC	21.1	20.98	0.02	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	back	1.090	1.028	1.121	0.444	0.456	
846.60	4233	UMTS 850	RMC	21.1	20.84	0.02	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	back	0.956	1.062	1.015	0.399	0.413	
826.40	4132	UMTS 850	RMC	21.1	20.95	0.05	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	top	0.803	1.035	0.831	0.367	0.380	
836.60	4183	UMTS 850	RMC	21.1	20.98	-0.05	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	top	0.943	1.028	0.969	0.404	0.415	
846.60	4233	UMTS 850	RMC	21.1	20.84	-0.06	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	top	0.846	1.062	0.898	0.380	0.404	
836.60	4183	UMTS 850	RMC	21.1	20.98	0.00	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	bottom	0.022	1.028	0.023	0.010	0.010	
836.60	4183	UMTS 850	RMC	21.1	20.98	0.08	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	right	0.038	1.028	0.039	0.019	0.020	
826.40	4132	UMTS 850	RMC	21.1	20.95	-0.04	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	left	0.928	1.035	0.960	0.379	0.392	
836.60	4183	UMTS 850	RMC	21.1	20.98	-0.03	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	left	1.000	1.028	1.028	0.413	0.425	
846.60	4233	UMTS 850	RMC	21.1	20.84	0.01	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	left	0.958	1.062	1.017	0.404	0.429	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body						
Spatial Peak												1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population												averaged over 1 gram						

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 231 of 293

Table 10-8
UMTS 850 MHz Ant 3B 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	SAR (10g)	Reported SAR	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)		
826.40	4132	UMTS 850	RMC	18.1	18.09	0.16	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	back	0.982	1.002	0.984	0.495	0.496	
836.60	4183	UMTS 850	RMC	18.1	18.00	0.11	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	back	0.996	1.023	1.019	0.501	0.513	
846.60	4233	UMTS 850	RMC	18.1	18.10	0.12	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	back	1.090	1.000	1.090	0.530	0.530	
826.40	4132	UMTS 850	RMC	18.1	18.09	0.01	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	top	0.806	1.002	0.808	0.397	0.398	
836.60	4183	UMTS 850	RMC	18.1	18.00	-0.06	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	top	0.836	1.023	0.855	0.392	0.401	
846.60	4233	UMTS 850	RMC	18.1	18.10	-0.01	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	top	0.804	1.000	0.804	0.390	0.390	
836.60	4183	UMTS 850	RMC	18.1	18.00	0.09	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	bottom	0.007	1.023	0.007	0.002	0.002	
836.60	4183	UMTS 850	RMC	18.1	18.00	0.05	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	right	0.103	1.023	0.105	0.050	0.051	
836.60	4183	UMTS 850	RMC	18.1	18.00	0.03	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	left	0.011	1.023	0.011	0.005	0.005	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-9
UMTS 1750 MHz Ant 4 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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pilot #
MHz	Ch.																	
1712.40	1312	UMTS 1750	RMC	15.5	15.49	-0.02	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	back	1.020	1.002	1.022	0.423	0.424	
1732.40	1412	UMTS 1750	RMC	15.5	15.32	-0.03	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	back	1.030	1.042	1.073	0.424	0.442	
1752.60	1513	UMTS 1750	RMC	15.5	15.43	-0.01	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	back	1.170	1.016	1.189	0.463	0.470	A4
1732.40	1412	UMTS 1750	RMC	15.5	15.32	-0.02	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	top	0.641	1.042	0.668	0.269	0.280	
1732.40	1412	UMTS 1750	RMC	15.5	15.32	-0.17	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	bottom	0.001	1.042	0.001	0.001	0.001	
1732.40	1412	UMTS 1750	RMC	15.5	15.32	0.11	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	right	0.027	1.042	0.028	0.014	0.015	
1732.40	1412	UMTS 1750	RMC	15.5	15.32	0.11	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	left	0.570	1.042	0.594	0.230	0.240	
1752.60	1513	UMTS 1750	RMC	15.5	15.43	-0.01	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	back	1.050	1.016	1.067	0.430	0.437	
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 10-10
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)	Pilot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	14.9	14.61	-0.15	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	back	0.996	1.069	1.065	0.450	0.481	
1732.40	1412	UMTS 1750	RMC	14.9	14.80	-0.17	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	back	1.020	1.023	1.043	0.446	0.456	
1752.60	1513	UMTS 1750	RMC	14.9	14.65	-0.19	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	back	0.947	1.059	1.003	0.415	0.439	
1732.40	1412	UMTS 1750	RMC	14.9	14.80	0.01	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	top	0.020	1.023	0.020	0.010	0.010	
1732.40	1412	UMTS 1750	RMC	14.9	14.80	0.01	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	bottom	0.462	1.023	0.473	0.154	0.158	
1732.40	1412	UMTS 1750	RMC	14.9	14.80	0.01	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	right	0.686	1.023	0.702	0.278	0.284	
1732.40	1412	UMTS 1750	RMC	14.9	14.80	0.07	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	left	0.000	1.023	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 10-11
UMTS 1750 MHz Ant 1A 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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pilot #
MHz	Ch.																	
1712.40	1312	UMTS 1750	RMC	15.1	14.64	-0.11	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	back	0.966	1.112	1.074	0.475	0.528	
1732.40	1412	UMTS 1750	RMC	15.1	14.73	0.02	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	back	0.951	1.089	1.036	0.471	0.513	
1752.60	1513	UMTS 1750	RMC	15.1	14.43	0.03	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	back	0.865	1.167	1.009	0.416	0.485	
1732.40	1412	UMTS 1750	RMC	15.1	14.73	0.13	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	top	0.019	1.089	0.021	0.009	0.010	
1732.40	1412	UMTS 1750	RMC	15.1	14.73	-0.13	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	bottom	0.374	1.089	0.407	0.133	0.145	
1732.40	1412	UMTS 1750	RMC	15.1	14.73	0.07	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	right	0.002	1.089	0.002	0.001	0.001	
1712.40	1312	UMTS 1750	RMC	15.1	14.64	0.06	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	left	0.994	1.112	1.105	0.401	0.446	
1732.40	1412	UMTS 1750	RMC	15.1	14.73	0.05	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	left	0.957	1.089	1.042	0.384	0.418	
1752.60	1513	UMTS 1750	RMC	15.1	14.43	0.04	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	left	0.850	1.167	0.992	0.341	0.398	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body						
Spatial Peak												1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population												averaged over 1 gram						

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 232 of 293

Table 10-12
UMTS 1750 MHz Ant 3A 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)	
1732.40	1412	UMTS 1750	RMC	14.0	13.99	0.02	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	back	0.467	1.002	0.468	0.215	0.215	
1732.40	1412	UMTS 1750	RMC	14.0	13.99	0.06	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	top	0.316	1.002	0.317	0.107	0.107	
1732.40	1412	UMTS 1750	RMC	14.0	13.99	0.12	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	bottom	0.011	1.002	0.011	0.005	0.005	
1712.40	1312	UMTS 1750	RMC	14.0	13.82	0.04	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	0.999	1.042	1.041	0.405	0.422	
1732.40	1412	UMTS 1750	RMC	14.0	13.99	-0.04	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	1.060	1.002	1.062	0.424	0.425	
1752.60	1513	UMTS 1750	RMC	14.0	13.73	-0.02	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	1.030	1.064	1.096	0.409	0.435	
1732.40	1412	UMTS 1750	RMC	14.0	13.99	0.19	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	left	0.001	1.002	0.001	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 10-13
UMTS 1900 MHz Ant 4 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)		
1852.40	9262	UMTS 1900	RMC	16.3	16.27	0.00	Body	0 mm	Ant 4	DLXD1005Q8MV	1:1	back	1.080	1.007	1.088	0.406	0.409	
1880.00	9400	UMTS 1900	RMC	16.3	16.27	0.00	Body	0 mm	Ant 4	DLXD1005Q8MV	1:1	back	0.875	1.007	0.881	0.361	0.364	
1907.60	9538	UMTS 1900	RMC	16.3	16.28	-0.01	Body	0 mm	Ant 4	DLXD1005Q8MV	1:1	back	0.866	1.005	0.870	0.355	0.357	
1880.00	9400	UMTS 1900	RMC	16.3	16.27	-0.01	Body	0 mm	Ant 4	DLXD1005Q8MV	1:1	top	0.591	1.007	0.595	0.242	0.244	
1880.00	9400	UMTS 1900	RMC	16.3	16.27	0.15	Body	0 mm	Ant 4	DLXD1005Q8MV	1:1	bottom	0.000	1.007	0.000	0.000	0.000	
1880.00	9400	UMTS 1900	RMC	16.3	16.27	0.02	Body	0 mm	Ant 4	DLXD1005Q8MV	1:1	right	0.012	1.007	0.012	0.005	0.005	
1880.00	9400	UMTS 1900	RMC	16.3	16.27	-0.02	Body	0 mm	Ant 4	DLXD1005Q8MV	1:1	left	0.303	1.007	0.305	0.107	0.108	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram					

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

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	14.8	14.66	0.01	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	back	1.080	1.033	1.126	0.485	0.501	
1880.00	9400	UMTS 1900	RMC	14.8	14.58	0.05	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	back	1.030	1.052	1.084	0.453	0.477	
1907.60	9538	UMTS 1900	RMC	14.8	14.51	-0.01	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	back	1.040	1.069	1.112	0.452	0.483	
1880.00	9400	UMTS 1900	RMC	14.8	14.56	0.02	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	top	0.019	1.052	0.020	0.008	0.008	
1880.00	9400	UMTS 1900	RMC	14.8	14.58	-0.16	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	bottom	0.623	1.052	0.665	0.206	0.217	
1852.40	9262	UMTS 1900	RMC	14.8	14.66	-0.02	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	right	0.796	1.033	0.822	0.321	0.332	
1880.00	9400	UMTS 1900	RMC	14.8	14.58	-0.02	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	right	0.779	1.052	0.820	0.315	0.331	
1907.60	9538	UMTS 1900	RMC	14.8	14.51	-0.01	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	right	0.766	1.069	0.819	0.307	0.328	
1880.00	9400	UMTS 1900	RMC	14.8	14.58	-0.05	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	left	0.002	1.052	0.002	0.001	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-15
UMTS 1900 MHz Ant 1A Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	14.8	14.59	0.00	Body	0 mm	Ant 1A	DLXD100DQ8MV	1:1	back	0.732	1.050	0.769	0.350	0.368	
1880.00	9400	UMTS 1900	RMC	14.8	14.48	-0.01	Body	0 mm	Ant 1A	DLXD100DQ8MV	1:1	back	0.830	1.076	0.893	0.395	0.425	
1907.60	9538	UMTS 1900	RMC	14.8	14.61	-0.01	Body	0 mm	Ant 1A	DLXD100DQ8MV	1:1	back	0.959	1.045	1.002	0.445	0.465	
1880.00	9400	UMTS 1900	RMC	14.8	14.48	0.09	Body	0 mm	Ant 1A	DLXD100DQ8MV	1:1	top	0.017	1.076	0.018	0.008	0.009	
1880.00	9400	UMTS 1900	RMC	14.8	14.48	0.11	Body	0 mm	Ant 1A	DLXD100DQ8MV	1:1	bottom	0.414	1.076	0.445	0.148	0.159	
1880.00	9400	UMTS 1900	RMC	14.8	14.48	0.04	Body	0 mm	Ant 1A	DLXD100DQ8MV	1:1	right	0.000	1.076	0.000	0.000	0.000	
1852.40	9262	UMTS 1900	RMC	14.8	14.59	0.04	Body	0 mm	Ant 1A	DLXD100DQ8MV	1:1	left	0.787	1.050	0.826	0.318	0.334	
1880.00	9400	UMTS 1900	RMC	14.8	14.48	-0.10	Body	0 mm	Ant 1A	DLXD100DQ8MV	1:1	left	0.980	1.076	1.054	0.381	0.410	
1907.60	9538	UMTS 1900	RMC	14.8	14.61	0.04	Body	0 mm	Ant 1A	DLXD100DQ8MV	1:1	left	1.110	1.045	1.160	0.431	0.450	A5
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: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 233 of 293

Table 10-16
UMTS 1900 MHz Ant 3A 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)	
1880.00	9400	UMTS 1900	RMC	14.2	13.99	-0.01	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	back	0.651	1.050	0.684	0.304	0.319	
1880.00	9400	UMTS 1900	RMC	14.2	13.99	-0.13	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	top	0.438	1.050	0.460	0.144	0.151	
1880.00	9400	UMTS 1900	RMC	14.2	13.99	0.05	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	bottom	0.007	1.050	0.007	0.003	0.003	
1852.40	9262	UMTS 1900	RMC	14.2	14.20	0.03	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	1.090	1.000	1.090	0.432	0.432	
1880.00	9400	UMTS 1900	RMC	14.2	13.99	0.06	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	1.030	1.050	1.082	0.407	0.427	
1907.60	9538	UMTS 1900	RMC	14.2	14.07	0.04	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	1.060	1.030	1.092	0.421	0.434	
1880.00	9400	UMTS 1900	RMC	14.2	13.99	0.06	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	left	0.005	1.050	0.005	0.001	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-17
LTE Band 71 Ant 4 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)		
680.50	133297	M4	LTE Band 71	20	22.5	22.45	-0.03	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	back	1:1	0.996	1.012	1.008	0.487	0.493	
680.50	133297	M4	LTE Band 71	20	22.5	22.27	-0.07	0	Ant 4	DLXD101EQ8MQ	QPSK	50	25	0 mm	back	1:1	0.800	1.054	0.843	0.399	0.421	
680.50	133297	M4	LTE Band 71	20	22.5	22.25	-0.04	0	Ant 4	DLXD101EQ8MQ	QPSK	100	0	0 mm	back	1:1	0.813	1.059	0.861	0.407	0.431	
680.50	133297	M4	LTE Band 71	20	22.5	22.45	-0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	top	1:1	0.799	1.012	0.809	0.358	0.362	
680.50	133297	M4	LTE Band 71	20	22.5	22.27	0.00	0	Ant 4	DLXD101EQ8MQ	QPSK	50	25	0 mm	top	1:1	0.724	1.054	0.763	0.318	0.335	
680.50	133297	M4	LTE Band 71	20	22.5	22.25	-0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	100	0	0 mm	top	1:1	0.737	1.059	0.780	0.322	0.341	
680.50	133297	M4	LTE Band 71	20	22.5	22.45	-0.07	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	bottom	1:1	0.020	1.012	0.020	0.009	0.009	
680.50	133297	M4	LTE Band 71	20	22.5	22.27	0.05	0	Ant 4	DLXD101EQ8MQ	QPSK	50	25	0 mm	bottom	1:1	0.022	1.054	0.023	0.009	0.009	
680.50	133297	M4	LTE Band 71	20	22.5	22.45	0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	right	1:1	0.042	1.012	0.043	0.018	0.018	
680.50	133297	M4	LTE Band 71	20	22.5	22.27	0.03	0	Ant 4	DLXD101EQ8MQ	QPSK	50	25	0 mm	right	1:1	0.040	1.054	0.042	0.018	0.019	
680.50	133297	M4	LTE Band 71	20	22.5	22.45	-0.06	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	left	1:1	0.974	1.012	0.995	0.363	0.367	
680.50	133297	M4	LTE Band 71	20	22.5	22.27	0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	50	25	0 mm	left	1:1	0.771	1.054	0.813	0.295	0.311	
680.50	133297	M4	LTE Band 71	20	22.5	22.25	0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	100	0	0 mm	left	1:1	0.777	1.059	0.823	0.299	0.317	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 10-18
LTE Band 71 Ant 3B Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #	
MHz	Ch.																					
680.50	133297	M4	LTE Band 71	20	20.1	20.00	0.01	0	Ant 3B	DLXD101Q08MV	QPSK	1	99	0 mm	back	1:1	1.060	1.023	1.084	0.538	0.550	
680.50	133297	M4	LTE Band 71	20	20.1	20.03	0.05	0	Ant 3B	DLXD101Q08MV	QPSK	50	50	0 mm	back	1:1	1.060	1.016	1.077	0.536	0.545	
680.50	133297	M4	LTE Band 71	20	20.1	19.93	0.02	0	Ant 3B	DLXD101Q08MV	QPSK	100	0	0 mm	back	1:1	1.070	1.040	1.113	0.539	0.561	
680.50	133297	M4	LTE Band 71	20	20.1	20.00	0.05	0	Ant 3B	DLXD101Q08MV	QPSK	1	99	0 mm	top	1:1	1.120	1.023	1.146	0.537	0.549	
680.50	133297	M4	LTE Band 71	20	20.1	20.03	-0.04	0	Ant 3B	DLXD101Q08MV	QPSK	50	50	0 mm	top	1:1	1.170	1.016	1.189	0.536	0.545	A6
680.50	133297	M4	LTE Band 71	20	20.1	19.93	-0.01	0	Ant 3B	DLXD101Q08MV	QPSK	100	0	0 mm	top	1:1	1.120	1.040	1.165	0.536	0.557	
680.50	133297	M4	LTE Band 71	20	20.1	20.00	0.02	0	Ant 3B	DLXD101Q08MV	QPSK	1	99	0 mm	bottom	1:1	0.012	1.023	0.012	0.005	0.005	
680.50	133297	M4	LTE Band 71	20	20.1	20.03	0.12	0	Ant 3B	DLXD101Q08MV	QPSK	50	50	0 mm	bottom	1:1	0.008	1.016	0.008	0.003	0.003	
680.50	133297	M4	LTE Band 71	20	20.1	20.00	0.03	0	Ant 3B	DLXD101Q08MV	QPSK	1	99	0 mm	right	1:1	0.129	1.023	0.132	0.056	0.057	
680.50	133297	M4	LTE Band 71	20	20.1	20.03	-0.02	0	Ant 3B	DLXD101Q08MV	QPSK	50	50	0 mm	right	1:1	0.126	1.016	0.128	0.055	0.056	
680.50	133297	M4	LTE Band 71	20	20.1	20.00	0.04	0	Ant 3B	DLXD101Q08MV	QPSK	1	99	0 mm	left	1:1	0.013	1.023	0.013	0.006	0.006	
680.50	133297	M4	LTE Band 71	20	20.1	20.03	0.20	0	Ant 3B	DLXD101Q08MV	QPSK	50	50	0 mm	left	1:1	0.016	1.016	0.016	0.008	0.008	
680.50	133297	M4	LTE Band 71	20	20.1	20.03	-0.04	0	Ant 3B	DLXD101Q08MV	QPSK	50	50	0 mm	top	1:1	1.146	1.016	1.158	0.540	0.549	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram												

Note: Blue entry represents variability measurement.

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 234 of 293

Table 10-33
LTE Band 66 (AWS) Ant 4 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 (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
Min	Ch.																				
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.62	0.03	0	Ant 4	DLXD1005Q8MV	QPSK	1	0	0 mm	back	1:1	0.827	1.197	0.990	0.334	0.400
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.4	13.39	0.04	0	Ant 4	DLXD1005Q8MV	QPSK	1	50	0 mm	back	1:1	0.744	1.262	0.939	0.380	0.389
1770.00	132572	High	LTE Band 66 (AWS)	20	14.4	13.44	0.04	0	Ant 4	DLXD1005Q8MV	QPSK	1	50	0 mm	back	1:1	0.730	1.247	0.910	0.300	0.374
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.58	0.02	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	back	1:1	0.736	1.208	0.889	0.308	0.372
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.4	13.40	0.01	0	Ant 4	DLXD1005Q8MV	QPSK	50	25	0 mm	back	1:1	0.723	1.259	0.910	0.306	0.385
1770.00	132572	High	LTE Band 66 (AWS)	20	14.4	13.51	-0.02	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	back	1:1	0.712	1.227	0.874	0.299	0.367
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.48	0.01	0	Ant 4	DLXD1005Q8MV	QPSK	100	0	0 mm	back	1:1	0.854	1.236	1.056	0.343	0.424
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.62	-0.02	0	Ant 4	DLXD1005Q8MV	QPSK	1	0	0 mm	top	1:1	0.458	1.197	0.548	0.197	0.236
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.58	-0.05	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	top	1:1	0.445	1.208	0.538	0.192	0.232
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.62	-0.03	0	Ant 4	DLXD1005Q8MV	QPSK	1	0	0 mm	bottom	1:1	0.000	1.197	0.000	0.000	0.000
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.58	-0.02	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	bottom	1:1	0.000	1.208	0.000	0.000	0.000
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.62	0.05	0	Ant 4	DLXD1005Q8MV	QPSK	1	0	0 mm	right	1:1	0.013	1.197	0.016	0.007	0.008
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.58	0.16	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	right	1:1	0.013	1.208	0.016	0.007	0.008
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.62	-0.04	0	Ant 4	DLXD1005Q8MV	QPSK	1	0	0 mm	left	1:1	0.377	1.197	0.451	0.145	0.174
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.58	-0.02	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	left	1:1	0.364	1.208	0.440	0.141	0.170
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.4	11.28	-0.04	0	Ant 4	DLXD1005Q8MV	QPSK	1	0	0 mm	back	1:1	0.430	1.028	0.442	0.182	0.187
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.4	11.14	-0.06	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	back	1:1	0.404	1.062	0.429	0.172	0.183
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 10-34
LTE Band 66 (AWS) 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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
Mhz	Ch.																				
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.17	-0.02	0	Ant 2A	DLXD1004Q8MV	QPSK	1	0	0 mm	back	1:1	1.100	1.030	1.133	0.497	A13
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.3	15.10	-0.12	0	Ant 2A	DLXD1004Q8MV	QPSK	1	0	0 mm	back	1:1	1.080	1.047	1.131	0.493	0.516
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.12	0.07	0	Ant 2A	DLXD1004Q8MV	QPSK	1	99	0 mm	back	1:1	1.000	1.042	1.042	0.446	0.485
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.20	-0.17	0	Ant 2A	DLXD1004Q8MV	QPSK	50	0	0 mm	back	1:1	1.010	1.023	1.033	0.469	0.480
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.3	15.05	-0.11	0	Ant 2A	DLXD1004Q8MV	QPSK	50	50	0 mm	back	1:1	1.030	1.059	1.091	0.469	0.497
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.11	-0.18	0	Ant 2A	DLXD1004Q8MV	QPSK	50	50	0 mm	back	1:1	0.997	1.045	1.042	0.431	0.450
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.09	-0.02	0	Ant 2A	DLXD1004Q8MV	QPSK	100	0	0 mm	back	1:1	0.976	1.050	1.025	0.429	0.450
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.17	0.02	0	Ant 2A	DLXD1004Q8MV	QPSK	1	0	0 mm	top	1:1	0.028	1.030	0.029	0.014	0.014
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.20	-0.04	0	Ant 2A	DLXD1004Q8MV	QPSK	50	0	0 mm	top	1:1	0.030	1.023	0.031	0.015	0.015
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.17	0.17	0	Ant 2A	DLXD1004Q8MV	QPSK	1	0	0 mm	bottom	1:1	0.503	1.030	0.518	0.174	0.179
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.20	-0.03	0	Ant 2A	DLXD1004Q8MV	QPSK	50	0	0 mm	bottom	1:1	0.504	1.023	0.516	0.176	0.180
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.17	0.10	0	Ant 2A	DLXD1004Q8MV	QPSK	1	0	0 mm	right	1:1	0.789	1.030	0.813	0.322	0.332
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.3	15.10	0.08	0	Ant 2A	DLXD1004Q8MV	QPSK	1	0	0 mm	right	1:1	0.744	1.047	0.779	0.301	0.315
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.12	0.10	0	Ant 2A	DLXD1004Q8MV	QPSK	1	99	0 mm	right	1:1	0.647	1.042	0.874	0.255	0.266
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.20	0.09	0	Ant 2A	DLXD1004Q8MV	QPSK	50	0	0 mm	right	1:1	0.791	1.023	0.809	0.321	0.328
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.3	15.05	0.15	0	Ant 2A	DLXD1004Q8MV	QPSK	50	50	0 mm	right	1:1	0.701	1.059	0.742	0.280	0.297
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.11	0.10	0	Ant 2A	DLXD1004Q8MV	QPSK	50	50	0 mm	right	1:1	0.660	1.045	0.690	0.260	0.272
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.09	0.06	0	Ant 2A	DLXD1004Q8MV	QPSK	100	0	0 mm	right	1:1	0.644	1.050	0.676	0.255	0.268
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.17	0.02	0	Ant 2A	DLXD1004Q8MV	QPSK	1	0	0 mm	left	1:1	0.004	1.030	0.004	0.001	0.001
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.20	0.03	0	Ant 2A	DLXD1004Q8MV	QPSK	50	0	0 mm	left	1:1	0.004	1.023	0.004	0.001	0.001
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.3	12.19	-0.03	0	Ant 2A	DLXD1004Q8MV	QPSK	1	50	0 mm	back	1:1	0.588	1.026	0.603	0.272	0.279
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.3	12.22	-0.01	0	Ant 2A	DLXD1004Q8MV	QPSK	50	25	0 mm	back	1:1	0.590	1.019	0.601	0.273	0.278
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.3	12.19	0.15	0	Ant 2A	DLXD1004Q8MV	QPSK	1	50	0 mm	right	1:1	0.427	1.026	0.438	0.164	0.168
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.3	12.22	0.13	0	Ant 2A	DLXD1004Q8MV	QPSK	50	25	0 mm	right	1:1	0.429	1.019	0.437	0.165	0.168
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

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Table 10-37
LTE Band 2 (PCS) Ant 4 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens. [dBm]	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]	Port #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)		
1880.00	18700	Low	LTE Band 2 (PCS)	20	16.0	15.87	0.02	0	Ant 4	DLX100Q8RMQ	QPSK	1	99	0 mm	back	1:1	1.060	1.030	1.062	0.421	0.434	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	16.0	15.80	0.03	0	Ant 4	DLX100Q8RMQ	QPSK	1	0	0 mm	back	1:1	1.040	1.047	1.059	0.411	0.430	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	16.00	0.05	0	Ant 4	DLX100Q8RMQ	QPSK	1	99	0 mm	back	1:1	1.060	1.000	1.060	0.416	0.416	
1860.00	18700	Low	LTE Band 2 (PCS)	20	16.0	15.83	0.05	0	Ant 4	DLX100Q8RMQ	QPSK	50	50	0 mm	back	1:1	1.040	1.040	1.082	0.411	0.427	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	16.0	15.79	0.05	0	Ant 4	DLX100Q8RMQ	QPSK	50	0	0 mm	back	1:1	1.020	1.050	1.071	0.403	0.423	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.99	-0.01	0	Ant 4	DLX100Q8RMQ	QPSK	50	50	0 mm	back	1:1	1.120	1.002	1.122	0.439	0.440	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.97	0.03	0	Ant 4	DLX100Q8RMQ	QPSK	100	0	0 mm	back	1:1	1.180	1.007	1.188	0.442	0.445	A14
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	16.00	0.01	0	Ant 4	DLX100Q8RMQ	QPSK	1	99	0 mm	top	1:1	0.541	1.000	0.541	0.217	0.217	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.99	0.00	0	Ant 4	DLX100Q8RMQ	QPSK	50	50	0 mm	top	1:1	0.563	1.002	0.564	0.227	0.227	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	16.00	0.00	0	Ant 4	DLX100Q8RMQ	QPSK	1	99	0 mm	bottom	1:1	0.000	1.000	0.000	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.99	0.00	0	Ant 4	DLX100Q8RMQ	QPSK	50	50	0 mm	bottom	1:1	0.000	1.002	0.000	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	16.00	-0.05	0	Ant 4	DLX100Q8RMQ	QPSK	1	99	0 mm	right	1:1	0.002	1.000	0.002	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.99	0.03	0	Ant 4	DLX100Q8RMQ	QPSK	50	50	0 mm	right	1:1	0.006	1.002	0.006	0.001	0.001	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	16.00	-0.07	0	Ant 4	DLX100Q8RMQ	QPSK	1	99	0 mm	left	1:1	0.179	1.000	0.179	0.067	0.067	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.99	-0.11	0	Ant 4	DLX100Q8RMQ	QPSK	50	50	0 mm	left	1:1	0.186	1.002	0.186	0.071	0.071	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.0	12.66	-0.03	0	Ant 4	DLX100Q8RMQ	QPSK	1	50	0 mm	back	1:1	0.464	1.081	0.502	0.182	0.197	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.0	12.82	0.05	0	Ant 4	DLX100Q8RMQ	QPSK	50	25	0 mm	back	1:1	0.512	1.042	0.534	0.199	0.207	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.97	0.03	0	Ant 4	DLX100Q8RMQ	QPSK	100	0	0 mm	back	1:1	1.170	1.007	1.178	0.436	0.438	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram												

Note: Blue entry represents variability measurement.

Table 10-38
LTE Band 2 (PCS) Ant 2A Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens (dBm)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Port #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)		
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.39	0.00	0	Ant 2A	DLX100Q8RMQ	QPSK	1	0	0 mm	back	1:1	0.982	1.002	0.984	0.484	0.485	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.4	13.99	-0.07	0	Ant 2A	DLX100Q8RMQ	QPSK	1	99	0 mm	back	1:1	0.927	1.009	1.019	0.450	0.495	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	-0.05	0	Ant 2A	DLX100Q8RMQ	QPSK	1	99	0 mm	back	1:1	0.980	1.014	0.994	0.476	0.483	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.15	-0.01	0	Ant 2A	DLX100Q8RMQ	QPSK	50	0	0 mm	back	1:1	0.915	1.009	0.969	0.456	0.483	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.4	14.07	-0.05	0	Ant 2A	DLX100Q8RMQ	QPSK	50	25	0 mm	back	1:1	0.906	1.079	0.978	0.448	0.483	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	-0.02	0	Ant 2A	DLX100Q8RMQ	QPSK	50	25	0 mm	back	1:1	1.030	1.014	1.044	0.467	0.494	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.33	0.00	0	Ant 2A	DLX100Q8RMQ	QPSK	100	0	0 mm	back	1:1	1.020	1.016	1.036	0.483	0.491	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.39	-0.08	0	Ant 2A	DLX100Q8RMQ	QPSK	1	0	0 mm	top	1:1	0.001	1.002	0.001	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	-0.09	0	Ant 2A	DLX100Q8RMQ	QPSK	50	25	0 mm	top	1:1	0.016	1.014	0.016	0.008	0.008	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.39	-0.06	0	Ant 2A	DLX100Q8RMQ	QPSK	1	0	0 mm	bottom	1:1	0.486	1.002	0.487	0.168	0.168	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	0.02	0	Ant 2A	DLX100Q8RMQ	QPSK	50	25	0 mm	bottom	1:1	0.500	1.014	0.507	0.173	0.175	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.39	0.06	0	Ant 2A	DLX100Q8RMQ	QPSK	1	0	0 mm	right	1:1	0.743	1.002	0.744	0.264	0.295	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	0.03	0	Ant 2A	DLX100Q8RMQ	QPSK	50	25	0 mm	right	1:1	0.753	1.014	0.764	0.260	0.297	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.39	0.03	0	Ant 2A	DLX100Q8RMQ	QPSK	1	0	0 mm	left	1:1	0.005	1.002	0.005	0.002	0.002	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	0.02	0	Ant 2A	DLX100Q8RMQ	QPSK	50	25	0 mm	left	1:1	0.002	1.014	0.002	0.001	0.001	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.4	11.35	0.02	0	Ant 2A	DLX100Q8RMQ	QPSK	1	50	0 mm	back	1:1	0.633	1.012	0.641	0.280	0.283	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.4	11.37	0.00	0	Ant 2A	DLX100Q8RMQ	QPSK	50	50	0 mm	back	1:1	0.639	1.007	0.643	0.282	0.284	
ANSI / IEEE C63.1 1982 - SAFETY LIMIT Spatial Peak										Body 1.6 W/kg (mW/g) averaged over 1 gram												
Uncontrolled Exposure/General Population																						

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SAR EVALUATION REPORT

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Tablet Device

Page 242 of 293

Table 10-39
LTE Band 2 (PCS) Ant 1A Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (15g)	Reported SAR (15g)	Plot #	
Min	Ch.															(W/kg)		(W/kg)	(W/kg)			
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.6	14.00	-0.02	0	Ant 1A	DLXD101EQBMQ	QPSK	1	0	0 mm	back	1:1	0.753	1.148	0.864	0.359	0.412	
1880.00	18800	Mid	LTE Band 2 (PCS)	20	14.6	14.22	-0.02	0	Ant 1A	DLXD101EQBMQ	QPSK	1	99	0 mm	back	1:1	0.744	1.091	0.812	0.345	0.376	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.50	0.04	0	Ant 1A	DLXD101EQBMQ	QPSK	1	50	0 mm	back	1:1	0.827	1.023	0.846	0.383	0.392	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.6	13.95	-0.01	0	Ant 1A	DLXD101EQBMQ	QPSK	50	0	0 mm	back	1:1	0.748	1.161	0.868	0.307	0.414	
1880.00	18800	Mid	LTE Band 2 (PCS)	20	14.6	14.15	-0.19	0	Ant 1A	DLXD101EQBMQ	QPSK	50	0	0 mm	back	1:1	0.748	1.109	0.830	0.359	0.398	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.41	-0.03	0	Ant 1A	DLXD101EQBMQ	QPSK	50	25	0 mm	back	1:1	0.813	1.045	0.850	0.377	0.394	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.40	-0.08	0	Ant 1A	DLXD101EQBMQ	QPSK	100	0	0 mm	back	1:1	0.807	1.047	0.845	0.373	0.391	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.50	0.16	0	Ant 1A	DLXD101EQBMQ	QPSK	1	50	0 mm	top	1:1	0.912	1.023	0.912	0.005	0.005	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.41	0.18	0	Ant 1A	DLXD101EQBMQ	QPSK	50	25	0 mm	top	1:1	0.912	1.045	0.913	0.005	0.005	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.50	0.02	0	Ant 1A	DLXD101EQBMQ	QPSK	1	50	0 mm	bottom	1:1	0.376	1.023	0.385	0.132	0.135	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.41	-0.02	0	Ant 1A	DLXD101EQBMQ	QPSK	50	25	0 mm	bottom	1:1	0.391	1.045	0.409	0.136	0.142	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.50	0.07	0	Ant 1A	DLXD101EQBMQ	QPSK	1	50	0 mm	right	1:1	0.001	1.023	0.001	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.41	0.05	0	Ant 1A	DLXD101EQBMQ	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	14.6	14.00	0.01	0	Ant 1A	DLXD101EQBMQ	QPSK	1	0	0 mm	left	1:1	0.797	1.148	0.915	0.306	0.351	
1860.00	18800	Mid	LTE Band 2 (PCS)	20	14.6	14.22	-0.01	0	Ant 1A	DLXD101EQBMQ	QPSK	1	99	0 mm	left	1:1	0.822	1.091	1.006	0.354	0.386	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.50	0.02	0	Ant 1A	DLXD101EQBMQ	QPSK	1	50	0 mm	left	1:1	1.010	1.023	1.033	0.391	0.400	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.6	13.95	0.01	0	Ant 1A	DLXD101EQBMQ	QPSK	50	0	0 mm	left	1:1	0.898	1.161	0.996	0.329	0.382	
1860.00	18800	Mid	LTE Band 2 (PCS)	20	14.6	14.15	0.01	0	Ant 1A	DLXD101EQBMQ	QPSK	50	0	0 mm	left	1:1	0.929	1.109	1.030	0.355	0.395	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.41	-0.01	0	Ant 1A	DLXD101EQBMQ	QPSK	50	25	0 mm	left	1:1	1.030	1.045	1.076	0.396	0.414	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.40	-0.02	0	Ant 1A	DLXD101EQBMQ	QPSK	100	0	0 mm	left	1:1	1.020	1.047	1.069	0.390	0.408	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.33	-0.02	0	Ant 1A	DLXD101EQBMQ	QPSK	1	50	0 mm	back	1:1	0.467	1.064	0.497	0.220	0.234	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.45	-0.09	0	Ant 1A	DLXD101EQBMQ	QPSK	50	25	0 mm	back	1:1	0.461	1.035	0.477	0.217	0.225	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.33	-0.09	0	Ant 1A	DLXD101EQBMQ	QPSK	1	50	0 mm	left	1:1	0.533	1.064	0.567	0.208	0.221	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.45	-0.08	0	Ant 1A	DLXD101EQBMQ	QPSK	50	25	0 mm	left	1:1	0.524	1.035	0.542	0.205	0.212	
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 10-40
LTE Band 2 (PCS) Ant 3A Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (15g)	Reported SAR (15g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.58	0.05	0	Ant 3A	DLXD101EQBMQ	QPSK	1	50	0 mm	back	1:1	0.753	1.005	0.757	0.332	0.334	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.60	-0.02	0	Ant 3A	DLXD101EQBMQ	QPSK	50	25	0 mm	back	1:1	0.764	1.000	0.764	0.334	0.334	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.58	-0.08	0	Ant 3A	DLXD101EQBMQ	QPSK	1	50	0 mm	top	1:1	0.473	1.005	0.475	0.161	0.162	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.60	-0.10	0	Ant 3A	DLXD101EQBMQ	QPSK	50	25	0 mm	top	1:1	0.462	1.000	0.462	0.157	0.157	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.58	0.04	0	Ant 3A	DLXD101EQBMQ	QPSK	1	50	0 mm	bottom	1:1	0.910	1.005	0.910	0.005	0.005	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.60	0.01	0	Ant 3A	DLXD101EQBMQ	QPSK	50	25	0 mm	bottom	1:1	0.910	1.000	0.910	0.005	0.005	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.6	14.42	0.05	0	Ant 3A	DLXD101EQBMQ	QPSK	1	0	0 mm	right	1:1	1.050	1.042	1.054	0.426	0.444	
1860.00	18800	Mid	LTE Band 2 (PCS)	20	14.6	14.35	0.05	0	Ant 3A	DLXD101EQBMQ	QPSK	1	99	0 mm	right	1:1	0.954	1.059	1.010	0.389	0.412	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.58	0.00	0	Ant 3A	DLXD101EQBMQ	QPSK	1	50	0 mm	right	1:1	0.976	1.005	0.981	0.368	0.400	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.6	14.33	0.02	0	Ant 3A	DLXD101EQBMQ	QPSK	50	50	0 mm	right	1:1	0.928	1.064	0.987	0.381	0.405	
1860.00	18800	Mid	LTE Band 2 (PCS)	20	14.6	14.41	0.05	0	Ant 3A	DLXD101EQBMQ	QPSK	50	25	0 mm	right	1:1	0.955	1.045	0.986	0.389	0.407	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.60	0.01	0	Ant 3A	DLXD101EQBMQ	QPSK	50	25	0 mm	right	1:1	0.985	1.000	0.985	0.400	0.400	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.56	0.03	0	Ant 3A	DLXD101EQBMQ	QPSK	100	0	0 mm	right	1:1	0.990	1.009	0.999	0.400	0.404	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.58	-0.14	0	Ant 3A	DLXD101EQBMQ	QPSK	1	50	0 mm	left	1:1	0.006	1.005	0.006	0.002	0.002	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.60	0.04	0	Ant 3A	DLXD101EQBMQ	QPSK	50	25	0 mm	left	1:1	0.006	1.000	0.006	0.002	0.002	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.37	0.02	0	Ant 3A	DLXD101EQBMQ	QPSK	1	50	0 mm	right	1:1	0.576	1.054	0.607	0.222	0.234	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.53	-0.09	0	Ant 3A	DLXD101EQBMQ	QPSK	50	25	0 mm	right	1:1	0.564	1.016	0.573	0.217	0.220	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Uncontrolled Exposure/General Population										Spatial Peak												
										1.6 W/kg (mW/g)												
										averaged over 1 gram												

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 243 of 293

Table 10-59
2.4 GHz WLAN Ant 3A Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (15g) (W/kg)	Reported SAR (15g) (W/kg)	Plot
MHz	Ch.																				
2437	6	802.11b	DSSS	22	13.00	11.80	0.10	0 mm	Ant 3A	V1	DLXD101EQ8BMQ	1	back	100.0	0.342	1.318	1.000	0.451	0.155	0.204	
2437	6	802.11b	DSSS	22	13.00	11.80	0.12	0 mm	Ant 3A	V1	DLXD101EQ8BMQ	1	top	100.0	0.305	1.318	1.000	0.402	0.093	0.123	
2437	6	802.11b	DSSS	22	13.00	11.80	-0.03	0 mm	Ant 3A	V1	DLXD101EQ8BMQ	1	bottom	100.0	0.000	1.318	1.000	0.000	0.000	0.000	
2412	1	802.11b	DSSS	22	13.00	11.69	-0.04	0 mm	Ant 3A	V1	DLXD101EQ8BMQ	1	right	100.0	0.645	1.352	1.000	0.872	0.228	0.308	
2437	6	802.11b	DSSS	22	13.00	11.80	0.00	0 mm	Ant 3A	V1	DLXD101EQ8BMQ	1	right	100.0	0.795	1.318	1.000	1.048	0.281	0.370	
2437	6	802.11b	DSSS	22	13.00	11.65	-0.01	0 mm	Ant 3A	V2	DLXD100Q8BMV	1	right	100.0	0.745	1.365	1.000	1.017	0.268	0.366	
2462	11	802.11b	DSSS	22	13.00	11.73	-0.06	0 mm	Ant 3A	V1	DLXD101EQ8BMQ	1	right	100.0	0.696	1.340	1.000	0.933	0.245	0.328	
2437	6	802.11b	DSSS	22	13.00	11.80	0.07	0 mm	Ant 3A	V1	DLXD101EQ8BMQ	1	left	100.0	0.000	1.318	1.000	0.000	0.000	0.000	
2412	1	802.11b	DSSS	22	6.00	5.95	-0.07	0 mm	Ant 3A	V1	DLXD101EQ8BMQ	1	back	100.0	0.095	1.012	1.000	0.096	0.039	0.039	
2412	1	802.11b	DSSS	22	6.00	5.95	0.00	0 mm	Ant 3A	V1	DLXD101EQ8BMQ	1	top	100.0	0.074	1.012	1.000	0.075	0.020	0.020	
2412	1	802.11b	DSSS	22	6.00	5.95	0.04	0 mm	Ant 3A	V1	DLXD101EQ8BMQ	1	right	100.0	0.192	1.012	1.000	0.194	0.067	0.068	
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 10-60
2.4 GHz WLAN Ant 1A Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Scanning	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 (15g) (W/kg)	Reported SAR (15g) (W/kg)	Plot #
MHz	Ch.																				
2412	1	802.11b	DSSS	22	13.75	12.28	-0.15	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	back	100.0	0.656	1.403	1.000	0.920	0.288	0.404	
2437	6	802.11b	DSSS	22	13.75	12.30	0.06	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	back	100.0	0.819	1.396	1.000	1.143	0.362	0.505	A01
2437	6	802.11b	DSSS	22	13.75	12.23	0.08	0 mm	Ant 1A	V2	DLXD101Q0BMV	1	back	100.0	0.762	1.419	1.000	1.081	0.335	0.475	
2462	11	802.11b	DSSS	22	13.75	12.31	0.02	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	back	100.0	0.662	1.393	1.000	0.922	0.289	0.403	
2462	11	802.11b	DSSS	22	13.75	12.31	0.10	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	top	100.0	0.008	1.393	1.000	0.011	0.003	0.004	
2462	11	802.11b	DSSS	22	13.75	12.31	0.14	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	bottom	100.0	0.313	1.393	1.000	0.436	0.095	0.132	
2462	11	802.11b	DSSS	22	13.75	12.31	-0.03	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	right	100.0	0.000	1.393	1.000	0.000	0.000	0.000	
2412	1	802.11b	DSSS	22	13.75	12.28	0.02	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	left	100.0	0.745	1.403	1.000	1.045	0.251	0.352	
2437	6	802.11b	DSSS	22	13.75	12.30	-0.04	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	left	100.0	0.728	1.396	1.000	1.016	0.252	0.352	
2462	11	802.11b	DSSS	22	13.75	12.31	0.04	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	left	100.0	0.696	1.393	1.000	0.970	0.224	0.312	
2412	1	802.11b	DSSS	22	6.75	6.72	-0.02	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	back	100.0	0.136	1.007	1.000	0.139	0.060	0.060	
2412	1	802.11b	DSSS	22	6.75	6.72	-0.01	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	top	100.0	0.000	1.007	1.000	0.000	0.000	0.000	
2412	1	802.11b	DSSS	22	6.75	6.72	-0.05	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	bottom	100.0	0.074	1.007	1.000	0.075	0.023	0.023	
2412	1	802.11b	DSSS	22	6.75	6.72	-0.08	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	right	100.0	0.000	1.007	1.000	0.000	0.000	0.000	
2412	1	802.11b	DSSS	22	6.75	6.72	-0.11	0 mm	Ant 1A	V1	DLXD101EQ8BMQ	1	left	100.0	0.162	1.007	1.000	0.163	0.056	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												

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 252 of 293

Table 10-61
5 GHz WLAN Ant 2A Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth	Maximum Allowed Power	Conducted Power	Power Dm	Spacing	Antenna Config.	Variant	Device Serial Number	Date Rate	Side	Duty Cycle	SAR (%)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (%)	SAR (%)	Reported SAR (%)	Plot
MHz	Ch.			[MHz]	[dBm]	[dBm]	[dB]					[dBm]			[W/kg]			[W/kg]	[W/kg]	[W/kg]	
5210	42	802.11ac	OFDM	80	10.50	9.35	-0.02	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	back	95.5	0.812	1.303	1.047	1.108	0.212	0.289	
5210	42	802.11ac	OFDM	80	10.50	9.52	0.07	0 mm	Ant 2A	V2	DLXD1000QBMW	29.3	back	96.0	0.834	1.253	1.042	1.089	0.217	0.283	
5210	42	802.11ac	OFDM	80	10.50	9.35	-0.05	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	top	95.5	0.009	1.303	1.047	0.012	0.001	0.001	
5210	42	802.11ac	OFDM	80	10.50	9.35	0.12	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	bottom	95.5	0.070	1.303	1.047	0.095	0.019	0.025	
5210	42	802.11ac	OFDM	80	10.50	9.35	0.06	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	right	95.5	0.245	1.303	1.047	0.334	0.060	0.082	
5210	42	802.11ac	OFDM	80	10.50	9.35	0.00	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	left	95.5	0.000	1.303	1.047	0.000	0.000	0.000	
5210	42	802.11ac	OFDM	80	3.50	3.48	0.04	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	back	95.5	0.156	1.005	1.047	0.164	0.040	0.042	
5210	42	802.11ac	OFDM	80	3.50	3.48	-0.12	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	bottom	95.5	0.012	1.005	1.047	0.013	0.003	0.003	
5210	42	802.11ac	OFDM	80	3.50	3.48	-0.19	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	right	95.5	0.043	1.005	1.047	0.045	0.006	0.008	
5530	106	802.11ac	OFDM	80	10.75	9.16	0.05	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	back	95.5	0.640	1.442	1.047	0.966	0.165	0.249	
5530	106	802.11ac	OFDM	80	10.75	9.04	0.01	0 mm	Ant 2A	V2	DLXD1004QBMW	29.3	back	96.0	0.572	1.483	1.042	0.884	0.168	0.260	
5610	122	802.11ac	OFDM	80	10.75	9.14	0.06	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	back	95.5	0.561	1.449	1.047	0.851	0.157	0.238	
5690	138	802.11ac	OFDM	80	10.75	9.07	-0.13	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	back	95.5	0.364	1.472	1.047	0.561	0.093	0.143	
5530	106	802.11ac	OFDM	80	10.75	9.16	0.06	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	top	95.5	0.023	1.442	1.047	0.035	0.005	0.008	
5530	106	802.11ac	OFDM	80	10.75	9.16	0.00	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	bottom	95.5	0.106	1.442	1.047	0.160	0.031	0.047	
5530	106	802.11ac	OFDM	80	10.75	9.16	0.02	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	right	95.5	0.187	1.442	1.047	0.282	0.043	0.065	
5530	106	802.11ac	OFDM	80	10.75	9.16	0.00	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	left	95.5	0.000	1.442	1.047	0.000	0.000	0.000	
5530	106	802.11ac	OFDM	80	3.75	3.73	0.07	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	back	95.5	0.163	1.005	1.047	0.172	0.042	0.044	
5530	106	802.11ac	OFDM	80	3.75	3.73	0.05	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	bottom	95.5	0.021	1.005	1.047	0.022	0.006	0.006	
5530	106	802.11ac	OFDM	80	3.75	3.73	0.08	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	right	95.5	0.042	1.005	1.047	0.044	0.009	0.009	
5775	155	802.11ac	OFDM	80	11.25	10.18	0.08	0 mm	Ant 2A	V1	DLXD101BQBMQ	29.3	back	95.5	0.701	1.279	1.047	0.939	0.178	0.238	
5775	155	802.11ac	OFDM	80	11.25	10.30	0.02	0 mm	Ant 2A	V2	DLXD1000QBMW	29.3	back	96.0	0.775	1.245	1.042	1.005	0.201	0.261	
5775	155	802.11ac	OFDM	80	11.25	10.30	0.04	0 mm	Ant 2A	V2	DLXD1000QBMW	29.3	top	96.0	0.090	1.245	1.042	0.090	0.000	0.000	
5775	155	802.11ac	OFDM	80	11.25	10.30	0.06	0 mm	Ant 2A	V2	DLXD1000QBMW	29.3	bottom	96.0	0.070	1.245	1.042	0.091	0.020	0.026	
5775	155	802.11ac	OFDM	80	11.25	10.30	0.08	0 mm	Ant 2A	V2	DLXD1000QBMW	29.3	right	96.0	0.184	1.245	1.042	0.239	0.042	0.054	
5775	155	802.11ac	OFDM	80	11.25	10.30	0.00	0 mm	Ant 2A	V2	DLXD1000QBMW	29.3	left	96.0	0.000	1.245	1.042	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	4.25	4.09	-0.18	0 mm	Ant 2A	V2	DLXD1000QBMW	29.3	back	96.0	0.192	1.038	1.042	0.208	0.052	0.056	
5775	155	802.11ac	OFDM	80	4.25	4.09	0.06	0 mm	Ant 2A	V2	DLXD1000QBMW	29.3	bottom	96.0	0.021	1.038	1.042	0.023	0.006	0.006	
5775	155	802.11ac	OFDM	80	4.25	4.09	0.05	0 mm	Ant 2A	V2	DLXD1000QBMW	29.3	right	96.0	0.062	1.038	1.042	0.067	0.013	0.014	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body												
Spatial Peak									1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 1 gram												

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 253 of 293

Table 10-62
5 GHz WLAN Ant 2B 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	Date Rate (W/m²)	Side	Duty Cycle (%)	SAR (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Pilot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)	(W/kg)	
5290	58	802.11ac	OFDM	80	11.50	10.52	0.16	0 mm	Ant 2B	V1	DLXD100LQBMQ	29.3	back	95.3	0.835	1.253	1.049	1.098	0.252	0.331	
5290	58	802.11ac	OFDM	80	11.50	10.54	0.18	0 mm	Ant 2B	V2	DLXD1004QBMW	29.3	back	96.0	0.873	1.247	1.042	1.134	0.269	0.350	
5290	58	802.11ac	OFDM	80	11.50	10.54	0.02	0 mm	Ant 2B	V2	DLXD1004QBMW	29.3	top	96.0	0.000	1.247	1.042	0.000	0.000	0.000	
5290	58	802.11ac	OFDM	80	11.50	10.54	-0.17	0 mm	Ant 2B	V2	DLXD1004QBMW	29.3	bottom	96.0	0.883	1.247	1.042	0.887	0.159	0.207	
5290	58	802.11ac	OFDM	80	11.50	10.54	0.00	0 mm	Ant 2B	V2	DLXD1004QBMW	29.3	right	96.0	0.021	1.247	1.042	0.027	0.004	0.005	
5290	58	802.11ac	OFDM	80	11.50	10.54	0.08	0 mm	Ant 2B	V2	DLXD1004QBMW	29.3	left	96.0	0.016	1.247	1.042	0.021	0.004	0.005	
5290	58	802.11ac	OFDM	80	4.50	4.43	0.03	0 mm	Ant 2B	V2	DLXD1004QBMW	29.3	back	96.0	0.176	1.016	1.042	0.186	0.049	0.052	
5290	58	802.11ac	OFDM	80	4.50	4.43	-0.16	0 mm	Ant 2B	V2	DLXD1004QBMW	29.3	bottom	96.0	0.124	1.016	1.042	0.131	0.026	0.028	
5530	106	802.11ac	OFDM	80	10.25	10.24	0.01	0 mm	Ant 2B	V1	DLXD101BQBMQ	29.3	back	95.3	1.080	1.002	1.049	1.136	0.327	0.344	
5610	122	802.11ac	OFDM	80	10.25	10.25	-0.04	0 mm	Ant 2B	V1	DLXD101BQBMQ	29.3	back	95.3	1.090	1.000	1.049	1.143	0.326	0.342	A21
5610	122	802.11ac	OFDM	80	10.25	10.25	0.06	0 mm	Ant 2B	V2	DLXD100SQBMW	29.3	back	96.0	1.060	1.000	1.042	1.105	0.306	0.319	
5690	138	802.11ac	OFDM	80	10.25	10.20	0.01	0 mm	Ant 2B	V1	DLXD101BQBMQ	29.3	back	95.3	1.020	1.012	1.049	1.083	0.280	0.297	
5610	122	802.11ac	OFDM	80	10.25	10.25	0.09	0 mm	Ant 2B	V1	DLXD101BQBMQ	29.3	top	95.3	0.013	1.000	1.049	0.014	0.004	0.004	
5610	122	802.11ac	OFDM	80	10.25	10.25	-0.01	0 mm	Ant 2B	V1	DLXD101BQBMQ	29.3	bottom	95.3	0.690	1.000	1.049	0.724	0.163	0.171	
5610	122	802.11ac	OFDM	80	10.25	10.25	-0.02	0 mm	Ant 2B	V1	DLXD101BQBMQ	29.3	right	95.3	0.064	1.000	1.049	0.067	0.013	0.014	
5610	122	802.11ac	OFDM	80	10.25	10.25	-0.03	0 mm	Ant 2B	V1	DLXD101BQBMQ	29.3	left	95.3	0.014	1.000	1.049	0.015	0.002	0.002	
5610	122	802.11ac	OFDM	80	3.25	3.21	-0.15	0 mm	Ant 2B	V1	DLXD101BQBMQ	29.3	back	95.3	0.147	1.009	1.049	0.156	0.032	0.034	
5610	122	802.11ac	OFDM	80	3.25	3.21	0.03	0 mm	Ant 2B	V1	DLXD101BQBMQ	29.3	bottom	95.3	0.121	1.009	1.049	0.128	0.026	0.028	
5775	155	802.11ac	OFDM	80	9.75	9.39	0.15	0 mm	Ant 2B	V1	DLXD100LQBMQ	29.3	back	95.3	0.930	1.086	1.049	1.059	0.280	0.296	
5775	155	802.11ac	OFDM	80	9.75	9.05	0.18	0 mm	Ant 2B	V2	DLXD1004QBMW	29.3	back	96.0	0.743	1.175	1.042	0.910	0.211	0.228	
5775	155	802.11ac	OFDM	80	9.75	9.39	0.12	0 mm	Ant 2B	V1	DLXD100LQBMQ	29.3	top	95.3	0.000	1.086	1.049	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	9.75	9.39	-0.07	0 mm	Ant 2B	V1	DLXD100LQBMQ	29.3	bottom	95.3	0.578	1.086	1.049	0.658	0.134	0.153	
5775	155	802.11ac	OFDM	80	9.75	9.39	-0.09	0 mm	Ant 2B	V1	DLXD100LQBMQ	29.3	right	95.3	0.031	1.086	1.049	0.035	0.006	0.007	
5775	155	802.11ac	OFDM	80	9.75	9.39	0.04	0 mm	Ant 2B	V1	DLXD100LQBMQ	29.3	left	95.3	0.005	1.086	1.049	0.006	0.001	0.001	
5775	155	802.11ac	OFDM	80	2.75	2.45	0.04	0 mm	Ant 2B	V1	DLXD100LQBMQ	29.3	back	95.3	0.083	1.072	1.049	0.083	0.025	0.028	
5775	155	802.11ac	OFDM	80	2.75	2.45	0.02	0 mm	Ant 2B	V1	DLXD100LQBMQ	29.3	bottom	95.3	0.089	1.072	1.049	0.100	0.018	0.020	
5290	58	802.11ac	OFDM	80	11.50	10.54	0.03	0 mm	Ant 2B	V2	DLXD1004QBMW	29.3	back	96.0	0.861	1.247	1.042	1.119	0.255	0.331	
5610	122	802.11ac	OFDM	80	10.25	10.25	-0.04	0 mm	Ant 2B	V1	DLXD101BQBMQ	29.3	back	95.3	1.010	1.000	1.049	1.059	0.297	0.312	
5775	155	802.11ac	OFDM	80	9.75	9.39	0.06	0 mm	Ant 2B	V1	DLXD100LQBMQ	29.3	back	95.3	0.925	1.086	1.049	1.054	0.246	0.280	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body												
Spatial Peak Uncontrolled Exposure/General Population									1.6 W/kg (mW/g) averaged over 1 gram												

Note: Blue entry represents variability measurement.

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 254 of 293

Table 10-63
5 GHz WLAN Ant 1B 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	Date Rate (Mbps)	Side	Duty Cycle (%)	SAR (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (W/kg)	SAR (15g) (W/kg)	Reported SAR (15g) (W/kg)	Pilot
MHz	Ch.																				
5210	42	802.11ac	OFDM	80	11.50	10.30	-0.04	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	back	95.5	0.670	1.318	1.047	0.925	0.206	0.284	
5210	42	802.11ac	OFDM	80	11.50	10.25	-0.04	0 mm	Ant 1B	V2	DLXD100DQ8M2	29.3	back	95.5	0.766	1.334	1.047	1.070	0.242	0.338	
5210	42	802.11ac	OFDM	80	11.50	10.25	-0.02	0 mm	Ant 1B	V2	DLXD100DQ8M2	29.3	top	95.5	0.001	1.334	1.047	0.001	0.000	0.000	
5210	42	802.11ac	OFDM	80	11.50	10.25	0.02	0 mm	Ant 1B	V2	DLXD100DQ8M2	29.3	bottom	95.5	0.670	1.334	1.047	0.936	0.156	0.218	
5210	42	802.11ac	OFDM	80	11.50	10.25	-0.03	0 mm	Ant 1B	V2	DLXD100DQ8M2	29.3	right	95.5	0.001	1.334	1.047	0.001	0.000	0.000	
5210	42	802.11ac	OFDM	80	11.50	10.25	-0.07	0 mm	Ant 1B	V2	DLXD100DQ8M2	29.3	left	95.5	0.051	1.334	1.047	0.071	0.011	0.015	
5210	42	802.11ac	OFDM	80	4.50	4.42	-0.03	0 mm	Ant 1B	V2	DLXD100DQ8M2	29.3	back	95.5	0.180	1.019	1.047	0.192	0.050	0.053	
5210	42	802.11ac	OFDM	80	4.50	4.42	0.07	0 mm	Ant 1B	V2	DLXD100DQ8M2	29.3	bottom	95.5	0.185	1.019	1.047	0.176	0.034	0.036	
5530	106	802.11ac	OFDM	80	10.25	9.27	-0.17	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	back	95.5	0.701	1.253	1.047	0.930	0.206	0.273	
5610	122	802.11ac	OFDM	80	10.25	9.36	-0.08	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	back	95.5	0.886	1.227	1.047	1.138	0.259	0.333	
5610	122	802.11ac	OFDM	80	10.25	9.31	0.03	0 mm	Ant 1B	V2	DLXD100DQ8M2	29.3	back	95.5	0.789	1.242	1.047	1.000	0.223	0.290	
5690	138	802.11ac	OFDM	80	10.25	9.25	0.01	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	back	95.5	0.759	1.259	1.047	1.000	0.216	0.285	
5610	122	802.11ac	OFDM	80	10.25	9.36	-0.05	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	top	95.5	0.000	1.227	1.047	0.000	0.000	0.000	
5530	106	802.11ac	OFDM	80	10.25	9.27	-0.04	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	bottom	95.5	0.516	1.253	1.047	0.677	0.114	0.150	
5610	122	802.11ac	OFDM	80	10.25	9.36	0.05	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	bottom	95.5	0.641	1.227	1.047	0.823	0.190	0.193	
5610	122	802.11ac	OFDM	80	10.25	9.36	0.03	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	right	95.5	0.004	1.227	1.047	0.005	0.000	0.000	
5610	122	802.11ac	OFDM	80	10.25	9.36	-0.02	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	left	95.5	0.103	1.227	1.047	0.132	0.020	0.026	
5530	106	802.11ac	OFDM	80	3.25	3.23	-0.04	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	back	95.5	0.172	1.005	1.047	0.181	0.051	0.054	
5530	106	802.11ac	OFDM	80	3.25	3.23	-0.17	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	bottom	95.5	0.136	1.005	1.047	0.143	0.031	0.033	
5530	106	802.11ac	OFDM	80	3.25	3.23	-0.05	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	left	95.5	0.001	1.005	1.047	0.001	0.000	0.000	
5775	155	802.11ac	OFDM	80	10.25	9.27	0.04	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	back	95.5	0.745	1.253	1.047	0.977	0.206	0.270	
5775	155	802.11ac	OFDM	80	10.25	9.18	0.13	0 mm	Ant 1B	V2	DLXD101BQ8M2	29.3	back	95.5	0.675	1.279	1.047	0.904	0.212	0.284	
5775	155	802.11ac	OFDM	80	10.25	9.27	0.00	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	top	95.5	0.000	1.253	1.047	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	10.25	9.27	-0.11	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	bottom	95.5	0.489	1.253	1.047	0.642	0.110	0.144	
5775	155	802.11ac	OFDM	80	10.25	9.27	0.08	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	right	95.5	0.001	1.253	1.047	0.001	0.000	0.000	
5775	155	802.11ac	OFDM	80	10.25	9.27	0.05	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	left	95.5	0.041	1.253	1.047	0.054	0.008	0.010	
5775	155	802.11ac	OFDM	80	3.25	3.09	-0.09	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	back	95.5	0.173	1.038	1.047	0.188	0.046	0.050	
5775	155	802.11ac	OFDM	80	3.25	3.09	-0.12	0 mm	Ant 1B	V1	DLXD101BQ8M2	29.3	bottom	95.5	0.100	1.038	1.047	0.109	0.021	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 10-64
5 GHz WLAN Body SAR – Ant 2B and 2A MIMO

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Cube	Power Dens (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Pilot
MHz	Ch.																					
5290	58	802.11ac	OFDM	80	11.50	10.87	1	0.09	0 mm	MIMO	V1	DLXD101BQ8M2	58.5	back	95.7	0.756	1.156	1.045	0.913	0.226	0.273	
					9.75	8.80	2	0.03							95.6	0.461	1.245	1.046	0.600	0.124	0.161	
					11.50	10.70	1	0.10							95.6	0.873	1.202	1.046	1.098	0.265	0.333	
5290	58	802.11ac	OFDM	80	9.75	8.80	2	-0.18	0 mm	MIMO	V2	DLXD101BQ8M2	58.5	back	95.7	0.430	1.245	1.045	0.559	0.118	0.154	
					10.25	9.61	1	-0.05							95.7	0.841	1.159	1.045	1.019	0.261	0.316	
					10.75	9.97	2	-0.05							95.6	0.691	1.197	1.046	0.885	0.190	0.238	
5530	106	802.11ac	OFDM	80	10.25	9.60	1	-0.04	0 mm	MIMO	V1	DLXD100LQ8M2	58.5	back	95.6	0.926	1.161	1.046	1.125	0.271	0.329	
					10.75	9.91	2	0.18							95.7	0.702	1.213	1.045	0.890	0.180	0.228	
					10.25	9.44	1	-0.06							95.6	0.778	1.205	1.046	0.981	0.230	0.290	
5610	122	802.11ac	OFDM	80	10.75	9.91	2	-0.06	0 mm	MIMO	V2	DLXD100SQ8M2	58.5	back	95.7	0.604	1.242	1.045	0.794	0.150	0.195	
					10.25	9.66	1	0.08							95.6	0.887	1.146	1.046	1.063	0.260	0.312	
					10.75	9.94	2	0.08							95.7	0.975	1.233	1.045	0.741	0.147	0.189	
5775	155	802.11ac	OFDM	80	9.75	9.28	1	-0.05	0 mm	MIMO	V1	DLXD101BQ8M2	58.5	back	95.7	0.792	1.114	1.045	0.922	0.218	0.254	
					11.25	10.33	2	-0.05							95.6	0.735	1.238	1.046	0.950	0.182	0.226	
					9.75	9.25	1	-0.01							95.6	0.896	1.122	1.046	1.052	0.260	0.305	
5775	155	802.11ac	OFDM	80	11.25	10.27	2	0.01	0 mm	MIMO	V2	DLXD100SQ8M2	58.5	back	95.7	0.660	1.253	1.045	0.864	0.180	0.226	
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: Due to the spatial separation of Antenna 2B and Antenna 2A, two measurement cubes were evaluated during MIMO SAR testing. Cube 1 and 2 are located over the SAR distributions produced by Antenna 2B and 2A, respectively. Due to the spatial separation of the distributions, the conducted power of each antenna was individually considered for each measurement cube to determine the reported SAR.

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 255 of 293

Table 10-65
5 GHz WLAN Body SAR – Ant 2B and 1B MIMO

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Cube	Power Drift (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Date 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.			[MHz]																		
5210	42	802.11ac	OFDM	80	10.50	9.54	1	-0.10	0 mm	MIMO	V1	DLXD100EQBMQ	58.5	bottom	95.5	0.579	1.247	1.046	0.755	0.137	0.179	
					11.50	10.57	2	-0.10							95.7	0.753	1.239	1.045	0.975	0.176	0.220	
					10.50	9.48	1	-0.07							95.6	0.499	1.265	1.046	0.660	0.116	0.153	
5210	42	802.11ac	OFDM	80	11.50	10.52	2	-0.07	0 mm	MIMO	V2	DLXD100DQBMV	58.5	bottom	95.6	0.672	1.253	1.046	0.881	0.150	0.197	
					10.25	9.35	1	-0.10							95.5	0.612	1.230	1.046	0.787	0.154	0.198	
					10.25	9.36	2	-0.10							95.7	0.584	1.227	1.045	0.749	0.139	0.174	
5530	106	802.11ac	OFDM	80	10.25	9.40	1	-0.07	0 mm	MIMO	V2	DLXD100DQBMV	58.5	bottom	95.6	0.524	1.216	1.046	0.666	0.102	0.130	
					10.25	9.37	2	-0.07							95.6	0.559	1.225	1.046	0.716	0.135	0.173	
					9.75	8.86	1	-0.14							95.6	0.534	1.227	1.046	0.685	0.130	0.167	
5775	155	802.11ac	OFDM	80	10.25	9.39	2	-0.14	0 mm	MIMO	V1	DLXD100LQBMQ	58.5	bottom	95.7	0.481	1.219	1.045	0.613	0.112	0.143	
					9.75	9.32	1	-0.01							95.5	0.562	1.104	1.046	0.649	0.132	0.152	
					10.25	9.32	2	0.01							95.6	0.553	1.239	1.046	0.717	0.128	0.166	
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: Due to the spatial separation of Antenna 2B and Antenna 1B, two measurement cubes were evaluated during MIMO SAR testing. Cube 1 and 2 are located over the SAR distributions produced by Antenna 2B and 1B, respectively. Due to the spatial separation of the distributions, the conducted power of each antenna was individually considered for each measurement cube to determine the reported SAR.

Table 10-66
Bluetooth Ant 3A Body SAR

MEASUREMENT RESULTS																	
FREQUENCY	Mode	Service	Maximum Allowed Power	Conducted Power	Power Drift	Spacing	Antenna Config.	Variant	Device Serial Number	Date Rate	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Reported SAR (10g)
MHz	Ch.		[dBm]	[dBm]	[dB]					[Mbps]			(W/kg)			(W/kg)	(W/kg)
2402	0	Bluetooth	FHSS	13.75	12.62	-0.01	0 mm	Ant 3A	V1	DLXD100LQBMQ	1	back	77.1	0.534	1.297	1.005	0.696
2402	0	Bluetooth	FHSS	13.75	12.62	0.05	0 mm	Ant 3A	V1	DLXD100LQBMQ	1	top	77.1	0.389	1.297	1.005	0.481
2402	0	Bluetooth	FHSS	13.75	12.62	0.08	0 mm	Ant 3A	V1	DLXD100LQBMQ	1	bottom	77.1	0.020	1.297	1.005	0.026
2402	0	Bluetooth	FHSS	13.75	12.62	0.00	0 mm	Ant 3A	V1	DLXD100LQBMQ	1	right	77.1	0.693	1.297	1.005	0.903
2441	39	Bluetooth	FHSS	13.75	12.27	-0.03	0 mm	Ant 3A	V1	DLXD100LQBMQ	1	right	77.1	0.672	1.406	1.005	0.950
2480	78	Bluetooth	FHSS	13.75	12.30	-0.05	0 mm	Ant 3A	V1	DLXD100LQBMQ	1	right	77.1	0.716	1.396	1.005	1.005
2480	78	Bluetooth	FHSS	13.75	12.36	-0.03	0 mm	Ant 3A	V2	DLXD100DQBMV	1	right	76.8	0.636	1.377	1.009	0.884
2402	0	Bluetooth	FHSS	13.75	12.62	0.00	0 mm	Ant 3A	V1	DLXD100LQBMQ	1	left	77.1	0.000	1.297	1.005	0.000
2441	39	Bluetooth	FHSS	6.75	6.69	0.04	0 mm	Ant 3A	V1	DLXD100LQBMQ	1	back	77.1	0.144	1.014	1.005	0.147
2441	39	Bluetooth	FHSS	6.75	6.69	0.04	0 mm	Ant 3A	V1	DLXD100LQBMQ	1	top	77.1	0.115	1.014	1.005	0.117
2441	39	Bluetooth	FHSS	6.75	6.69	-0.05	0 mm	Ant 3A	V1	DLXD100LQBMQ	1	right	77.1	0.203	1.014	1.005	0.207
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: 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.

Table 10-67
Bluetooth Ant 1A Body SAR

MEASUREMENT RESULTS																	
FREQUENCY	Mode	Service	Maximum Allowed Power	Conducted Power	Power Drift	Spacing	Antenna Config.	Variant	Device Serial Number	Date Rate	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Reported SAR (10g)
MHz	Ch.		[dBm]	[dBm]	[dB]					[Mbps]			(W/kg)			(W/kg)	(W/kg)
2402	0	Bluetooth	FHSS	13.75	12.70	0.01	0 mm	Ant 1A	V1	DLXD101BQBMQ	1	back	76.9	0.804	1.274	1.008	1.032
2441	39	Bluetooth	FHSS	13.75	13.10	-0.03	0 mm	Ant 1A	V1	DLXD101BQBMQ	1	back	76.9	0.983	1.161	1.008	1.162
2480	78	Bluetooth	FHSS	13.75	13.46	-0.03	0 mm	Ant 1A	V1	DLXD101BQBMQ	1	back	76.9	1.100	1.069	1.008	1.186
2480	78	Bluetooth	FHSS	13.75	12.22	-0.02	0 mm	Ant 1A	V2	DLXD100DQBMV	1	back	76.5	0.697	1.422	1.013	1.004
2480	78	Bluetooth	FHSS	13.75	13.46	-0.15	0 mm	Ant 1A	V1	DLXD101BQBMQ	1	top	76.9	0.001	1.069	1.008	0.001
2480	78	Bluetooth	FHSS	13.75	13.46	0.06	0 mm	Ant 1A	V1	DLXD101BQBMQ	1	bottom	76.9	0.181	1.069	1.008	0.195
2480	78	Bluetooth	FHSS	13.75	13.46	0.00	0 mm	Ant 1A	V1	DLXD101BQBMQ	1	right	76.9	0.000	1.069	1.008	0.000
2480	78	Bluetooth	FHSS	13.75	13.46	0.05	0 mm	Ant 1A	V1	DLXD101BQBMQ	1	left	76.9	0.491	1.069	1.008	0.529
2402	0	Bluetooth	FHSS	6.75	6.56	-0.02	0 mm	Ant 1A	V1	DLXD101BQBMQ	1	back	76.9	0.181	1.045	1.008	0.191
2402	0	Bluetooth	FHSS	6.75	6.56	-0.02	0 mm	Ant 1A	V1	DLXD101BQBMQ	1	bottom	76.9	0.089	1.045	1.008	0.094
2402	0	Bluetooth	FHSS	6.75	6.56	0.12	0 mm	Ant 1A	V1	DLXD101BQBMQ	1	left	76.9	0.154	1.045	1.008	0.162
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: 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.

FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 256 of 293

10.2 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02 and FCC KDB Publication 447498 D01v06.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
6. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
7. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D01v06 was applied to determine SAR test exclusion for adjacent edge configurations.
8. This device utilizes power reduction for some wireless modes and technologies, as outlined in Section 1.3. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.

GSM Test Notes:

1. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ 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).

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 257 of 293

4. Per FCC KDB Publication 447498 D01v06, when the reported LTE Band 41 and LTE 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 LTE Band 5, LTE Band 7, and LTE Band 41, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
9. For inter-band uplink carrier aggregation, additional SAR Measurements were performed for some positions at the maximum allowed output power in inter-band ULCA mode. All single uplink 1g SAR values for each band were < 0.8 W/kg and the algebraic summation of the 1g SAR inter-band ULCA values were < 1.45. Per Fall 2018 TCB Workshop notes, no additional measurements were required.
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.
11. 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. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.6.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 7.6.5 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 11 for complete analysis.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 258 of 293

4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power.

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 8.8 for the time domain plot and calculation for the duty factor of the device.

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 259 of 293

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 or 10g SAR.

Note:

SAR Summations for some scenarios when the output power levels are reduced, SAR values at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

For each position, the highest SAR value across all modes for the applicable cellular band antenna was considered for summation to determine simultaneous SAR test exclusion.

To determine simultaneous transmission analysis for cellular band Antenna 4 Inter-band ULCA, the highest SAR value across all modes was used for summation.

*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 was 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 4 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz WLAN Ant 3A SAR (W/kg)	2.4 GHz WLAN Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.189	0.451	1.143	1.189*	1.189*	1.189*
	Top	1.035	0.402	0.011	1.437	1.046	1.448
	Bottom	0.041	0.000	0.436	0.041	0.477	0.477
	Right	0.060	1.048	0.000	1.108	0.060	1.108
	Left	1.186	0.000	1.045	1.186	1.186*	1.186*

Table 11-2
Cellular Band Ant 3B Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.096	1.143	1.284	1.188*	1.284*
	Top	1.189	0.075	0.011	1.264	1.200	1.275
	Bottom	0.012	0.000	0.436	0.012	0.448	0.448
	Right	0.149	0.194	0.000	0.343	0.149	0.343
	Left	0.027	0.000	1.045	0.027	1.072	1.072

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 260 of 293

Table 11-3
Cellular Band Ant 3A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.838	0.096	1.143	0.934	1.143*	1.143*
	Top	0.475	0.075	0.011	0.550	0.486	0.561
	Bottom	0.013	0.000	0.436	0.013	0.449	0.449
	Right	1.173	0.194	0.000	1.367	1.173	1.367
	Left	0.006	0.000	1.045	0.006	1.051	1.051

Table 11-4
Cellular Band Ant 1A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6.75dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.451	0.139	1.188*	1.327	1.327*
	Top	0.030	0.402	0.000	0.432	0.030	0.432
	Bottom	0.512	0.000	0.075	0.512	0.587	0.587
	Right	0.003	1.048	0.000	1.051	0.003	1.051
	Left	1.163	0.000	0.163	1.163	1.326	1.326

Table 11-5
Cellular Band Ant 2A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 2A SAR (W/kg)	2.4 GHz WLAN Ant 3A SAR (W/kg)	2.4 GHz WLAN Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.180	0.451	1.143	1.180*	1.180*	1.180*
	Top	0.044	0.402	0.011	0.446	0.055	0.457
	Bottom	0.710	0.000	0.436	0.710	1.146	1.146
	Right	0.829	1.048	0.000	1.048*	0.829	1.048*
	Left	0.013	0.000	1.045	0.013	1.058	1.058

Table 11-6
Cellular Band Ant 4 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+2+4
Body SAR	Back	1.189	1.143	1.108	1.138	1.189*	1.189*	1.189*	See Table Below	1.189*
	Top	1.035	0.014	0.035	0.001	1.049	1.070	1.036	1.084	1.050
	Bottom	0.041	0.887	0.160	0.936	0.928	0.201	0.977	1.088	See Table Below
	Right	0.060	0.067	0.334	0.005	0.127	0.394	0.065	0.461	0.132
	Left	1.188	0.021	0.000	0.132	1.207	1.186	1.318	1.207	1.339

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	1.189	1.125	1.189*

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Bottom	0.041	0.975	1.016

Table 11-7
Cellular Band Ant 3B Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+2+4
Body SAR	Back	1.188	1.143	1.108	1.138	1.188*	1.188*	1.188*	See Table Below	1.188*
	Top	1.189	0.014	0.035	0.001	1.203	1.224	1.190	1.238	1.204
	Bottom	0.012	0.887	0.160	0.936	0.899	0.172	0.948	1.059	See Table Below
	Right	0.149	0.067	0.334	0.005	0.216	0.483	0.154	0.550	0.221
	Left	0.027	0.021	0.000	0.132	0.048	0.027	0.159	0.048	0.180

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	1.188	1.125	1.188*

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Bottom	0.012	0.975	0.987

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 261 of 293

Table 11-8
Cellular Band Ant 3A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+2+4
Body SAR	Back	0.838	1.143	1.108	1.138	1.143*	1.108*	1.138*	See Table Below	1.143*
	Top	0.475	0.014	0.035	0.001	0.489	0.510	0.476	0.524	0.490
	Bottom	0.013	0.887	0.160	0.936	0.900	0.173	0.949	1.060	See Table Below
	Right	1.173	0.067	0.334	0.005	1.240	1.507	1.178	1.574	1.245
	Left	0.006	0.021	0.000	0.132	0.027	0.008	0.138	0.027	0.159
Simult Tx		Configuration	Cellular Band Ant 3A SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)					
			1	2	1+2					
Body SAR		Back	0.838	1.125	1.125*					
Simult Tx		Configuration	Cellular Band Ant 1A SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)					
			1	2	1+2					
Body SAR		Bottom	0.013	0.975	0.988					

Table 11-9
Cellular Band Ant 1A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+2+4
Body SAR	Back	1.188	1.143	1.108	0.192	1.188*	1.188*	1.380	See Table Below	1.38*
	Top	0.030	0.014	0.035	0.001	0.044	0.065	0.031	0.079	0.045
	Bottom	0.512	0.887	0.160	0.176	1.399	0.672	0.688	1.569	1.575
	Right	0.003	0.067	0.334	0.005	0.070	0.337	0.008	0.404	0.075
	Left	1.163	0.021	0.000	0.071	1.184	1.163	1.234	1.184	1.255
Simult Tx		Configuration	Cellular Band Ant 1A SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)					
			1	2	1+2					
Body SAR		Back	1.188	1.125	1.188*					

Table 11-10
Cellular Band Ant 2A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 2A SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+2+4
Body SAR	Back	1.180	0.186	0.208	1.138	1.366	1.388	1.180*	1.574	1.366*
	Top	0.044	0.014	0.035	0.001	0.058	0.079	0.045	0.093	0.059
	Bottom	0.710	0.131	0.023	0.936	0.841	0.733	0.936*	0.864	1.067*
	Right	0.829	0.067	0.067	0.005	0.896	0.896	0.834	0.963	0.901
	Left	0.013	0.021	0.000	0.132	0.034	0.013	0.145	0.034	0.166

Table 11-11
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.189	0.696	1.185	1.189*	1.189*	1.189*
	Top	1.035	0.481	0.001	1.516	1.036	1.517
	Bottom	0.041	0.026	0.195	0.067	0.236	0.262
	Right	0.060	1.005	0.000	1.065	0.060	1.065
	Left	1.186	0.000	0.529	1.186	1.186*	1.186*

Table 11-12
Cellular Band Ant 3B Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.147	1.185	1.335	1.188*	1.335*
	Top	1.189	0.117	0.001	1.306	1.190	1.307
	Bottom	0.012	0.026	0.195	0.038	0.207	0.233
	Right	0.149	0.207	0.000	0.356	0.149	0.356
	Left	0.027	0.000	0.529	0.027	0.556	0.556

Table 11-13
Cellular Band Ant 3A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.838	0.147	1.185	0.985	1.185*	1.185*
	Top	0.475	0.117	0.001	0.592	0.476	0.593
	Bottom	0.013	0.026	0.195	0.039	0.208	0.234
	Right	1.173	0.207	0.000	1.380	1.173	1.380
	Left	0.006	0.000	0.529	0.006	0.535	0.535

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 262 of 293

Table 11-14
Cellular Band Ant 1A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.696	0.191	1.188*	1.379	1.379*
	Top	0.030	0.481	0.001	0.511	0.031	0.512
	Bottom	0.512	0.026	0.094	0.538	0.606	0.632
	Right	0.003	1.005	0.000	1.008	0.003	1.008
	Left	1.163	0.000	0.162	1.163	1.325	1.325

Table 11-15
Cellular Band Ant 2A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 2A SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.180	0.696	1.185	1.180*	1.185*	1.185*
	Top	0.044	0.481	0.001	0.525	0.045	0.526
	Bottom	0.710	0.026	0.195	0.736	0.905	0.931
	Right	0.829	1.005	0.000	1.005*	0.829	1.005*
	Left	0.013	0.000	0.529	0.013	0.542	0.542

Table 11-16
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6
Body SAR	Back	1.189	0.696	0.191	1.143	1.108	1.138	See table below	1.329*
	Top	0.035	0.481	0.001	0.014	0.035	0.001	1.566	1.532
	Bottom	0.041	0.026	0.094	0.887	0.160	0.936	See table below	1.208
	Right	0.090	1.005	0.000	0.067	0.334	0.005	1.466	1.137
	Left	1.186	0.000	0.162	0.021	0.000	0.132	1.369	1.501
Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	4	1+2+3+4			
Body SAR	Back	1.189	0.696	0.191	1.125	1.189*			
		1	2	3	4	1+2+3+4			
Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	4	1+2+3+4			
Body SAR	Bottom	0.041	0.026	0.094	0.975	1.136			

Table 11-17
Cellular Band Ant 3A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6
Body SAR	Back	0.838	0.147	0.191	1.143	1.108	1.138	See table below	1.329*
	Top	0.475	0.117	0.001	0.014	0.035	0.001	0.642	0.608
	Bottom	0.013	0.026	0.094	0.887	0.160	0.936	1.180	See table below
	Right	1.173	0.207	0.000	0.067	0.334	0.005	1.447*	1.452
	Left	0.006	0.000	0.162	0.021	0.000	0.132	0.189	0.321
Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	4	1+2+3+4			
Body SAR	Back	0.838	0.147	0.191	1.125	1.125*			
		1	2	3	4	1+2+3+4			
Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	4	1+2+3+4			
Body SAR	Bottom	0.013	0.026	0.094	0.975	1.108			

Table 11-18
Cellular Band Ant 3B Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6
Body SAR	Back	1.188	0.147	0.191	1.143	1.108	1.138	See table below	1.335*
	Top	1.189	0.117	0.001	0.014	0.035	0.001	1.386	1.322
	Bottom	0.012	0.026	0.094	0.887	0.160	0.936	1.179	See table below
	Right	0.149	0.207	0.000	0.067	0.334	0.005	0.757	0.428
	Left	0.027	0.000	0.162	0.021	0.000	0.132	0.210	0.342
Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	4	1+2+3+4			
Body SAR	Back	1.188	0.147	0.191	1.125	1.335*			
		1	2	3	4	1+2+3+4			
Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	4	1+2+3+4			
Body SAR	Bottom	0.012	0.026	0.094	0.975	1.107			

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 263 of 293

Table 11-19

Cellular Band Ant 1A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6
Body SAR	Back	1.188	0.696	0.191	1.143	1.108	0.192	See table below	1.571*
	Top	0.030	0.481	0.001	0.014	0.035	0.001	0.561	0.527
	Bottom	0.512	0.026	0.004	0.887	0.160	0.176	1.073*	1.089*
	Right	0.003	1.005	0.000	0.067	0.334	0.005	1.409	1.080
	Left	1.163	0.000	0.162	0.021	0.000	0.071	1.346	1.417
Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	4	1+2+3+4			
Body SAR	Back	1.188	0.696	0.191	1.125	1.379*			

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 Ant 2A SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	1.180	0.696	0.191	0.186	0.208	1.138	1.366*
	Top	0.044	0.481	0.001	0.014	0.035	0.001	0.541
	Bottom	0.710	0.026	0.004	0.131	0.023	0.936	1.093*
	Right	0.829	1.005	0.000	0.067	0.067	0.005	1.977*
	Left	0.013	0.000	0.162	0.021	0.000	0.132	0.328

Table 11-21

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

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.561	0.633	0.096	0.139	1.290	1.333	1.429
	Top	0.787	0.542	0.075	0.000	1.404	1.329	1.404
	Bottom	0.037	0.009	0.000	0.075	0.046	0.121	0.121
	Right	0.060	0.149	0.194	0.000	0.403	0.209	0.403
	Left	0.777	0.021	0.000	0.163	0.798	0.961	0.961

Table 11-22

Inter-band ULCA Cellular Band Ant 4 and 2A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 2A Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.561	0.663	0.096	0.139	1.320	1.363	1.459
	Top	0.787	0.044	0.075	0.000	0.906	0.831	0.906
	Bottom	0.037	0.710	0.000	0.075	0.747	0.822	0.822
	Right	0.060	0.764	0.194	0.000	1.018	0.824	1.018
	Left	0.777	0.013	0.000	0.163	0.790	0.953	0.953

Table 11-23

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

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.561	0.550	0.096	0.139	1.207	1.250	1.346
	Top	0.787	0.030	0.075	0.000	0.892	0.817	0.892
	Bottom	0.037	0.505	0.000	0.075	0.542	0.617	0.617
	Right	0.060	0.003	0.194	0.000	0.257	0.063	0.257
	Left	0.777	0.567	0.000	0.163	1.344	1.507	1.507

Table 11-24

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

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.561	0.764	0.096	0.139	1.421	1.464	1.560
	Top	0.787	0.475	0.075	0.000	1.337	1.262	1.337
	Bottom	0.037	0.013	0.000	0.075	0.060	0.125	0.125
	Right	0.060	0.621	0.194	0.000	0.875	0.881	0.875
	Left	0.777	0.006	0.000	0.163	0.783	0.946	0.946

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 264 of 293

Table 11-25

Inter-band ULCA Cellular Band Ant 3B and 1A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.633	0.550	0.096	0.139	1.279	1.322	1.418
	Top	0.542	0.030	0.075	0.000	0.647	0.572	0.647
	Bottom	0.009	0.505	0.000	0.075	0.514	0.589	0.589
	Right	0.149	0.003	0.194	0.000	0.346	0.152	0.346
	Left	0.021	0.567	0.000	0.163	0.588	0.751	0.751

Table 11-26

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

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.633	0.764	0.096	0.139	1.493	1.536	1.493*
	Top	0.542	0.475	0.075	0.000	1.092	1.017	1.092
	Bottom	0.009	0.013	0.000	0.075	0.022	0.097	0.097
	Right	0.149	0.621	0.194	0.000	0.964	0.770	0.964
	Left	0.021	0.006	0.000	0.163	0.027	0.190	0.190

Table 11-27

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

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.561	0.633	0.186	0.208	0.192	1.380	1.402	1.386	1.588	1.572
	Top	0.787	0.542	0.014	0.035	0.001	1.343	1.364	1.330	1.378	1.344
	Bottom	0.037	0.009	0.031	0.003	0.177	0.269	0.222	0.203	0.353	0.353
	Right	0.060	0.149	0.067	0.067	0.005	0.276	0.276	0.214	0.343	0.281
	Left	0.777	0.021	0.021	0.000	0.071	0.819	0.798	0.869	0.819	0.890

Table 11-28

Inter-band ULCA Cellular Band Ant 4 and 2A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 2A Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.561	0.663	0.186	0.208	0.192	1.410	1.432	1.416	1.057*	0.869*
	Top	0.787	0.044	0.014	0.035	0.001	0.845	0.866	0.832	0.880	0.846
	Bottom	0.037	0.710	0.131	0.023	0.176	0.878	0.770	0.923	0.901	1.054
	Right	0.060	0.784	0.067	0.067	0.005	0.891	0.891	0.829	0.958	0.886
	Left	0.777	0.013	0.021	0.000	0.071	0.811	0.790	0.861	0.811	0.882

Table 11-29

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

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.561	0.560	0.186	0.208	0.192	1.297	1.319	1.303	1.469	1.469
	Top	0.787	0.030	0.014	0.035	0.001	0.831	0.802	0.818	0.866	0.832
	Bottom	0.037	0.505	0.131	0.023	0.176	0.673	0.565	0.718	0.696	0.849
	Right	0.060	0.003	0.067	0.067	0.005	0.130	0.130	0.068	0.197	0.135
	Left	0.777	0.567	0.021	0.000	0.071	1.365	1.344	1.415	1.365	1.436

Table 11-30

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

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.561	0.764	0.186	0.208	0.192	1.511	1.533	1.517	0.764*	0.764*
	Top	0.787	0.475	0.014	0.035	0.001	1.276	1.297	1.263	1.311	1.277
	Bottom	0.037	0.013	0.131	0.023	0.176	0.181	0.073	0.225	0.204	0.357
	Right	0.060	0.621	0.067	0.067	0.005	0.748	0.748	0.686	0.815	0.753
	Left	0.777	0.006	0.021	0.000	0.071	0.804	0.783	0.854	0.804	0.875

Table 11-31

Inter-band ULCA Cellular Band Ant 3B and 1A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.633	0.550	0.186	0.208	0.192	1.369	1.391	1.375	1.577	1.561
	Top	0.542	0.030	0.014	0.035	0.001	0.586	0.607	0.573	0.621	0.587
	Bottom	0.009	0.505	0.131	0.023	0.176	0.645	0.537	0.680	0.668	0.821
	Right	0.149	0.003	0.067	0.067	0.005	0.219	0.219	0.157	0.286	0.224
	Left	0.021	0.567	0.021	0.000	0.071	0.609	0.588	0.659	0.609	0.680

Table 11-32

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

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.633	0.764	0.186	0.208	0.192	1.583	1.597*	1.588	1.397*	1.397*
	Top	0.542	0.475	0.014	0.035	0.001	1.031	1.052	1.018	1.056	1.032
	Bottom	0.009	0.013	0.131	0.023	0.176	0.153	0.045	0.168	0.176	0.328
	Right	0.149	0.621	0.067	0.067	0.005	0.537	0.537	0.775	0.504	0.842
	Left	0.021	0.006	0.021	0.000	0.071	0.048	0.027	0.058	0.048	0.119

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 265 of 293

Table 11-33

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

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.561	0.633	0.147	0.191	1.341	1.385	1.532
	Top	0.787	0.542	0.117	0.001	1.446	1.330	1.447
	Bottom	0.037	0.009	0.026	0.094	0.072	0.140	0.166
	Right	0.060	0.149	0.207	0.000	0.416	0.209	0.416
	Left	0.777	0.021	0.000	0.162	0.798	0.960	0.960

Table 11-34

Inter-band ULCA Cellular Band Ant 4 and 2A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 2A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.561	0.663	0.147	0.191	1.371	1.415	1.562
	Top	0.787	0.044	0.117	0.001	0.948	0.832	0.949
	Bottom	0.037	0.710	0.026	0.094	0.773	0.841	0.867
	Right	0.060	0.764	0.207	0.000	1.031	0.824	1.031
	Left	0.777	0.013	0.000	0.162	0.790	0.952	0.952

Table 11-35

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

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.561	0.550	0.147	0.191	1.258	1.302	1.449
	Top	0.787	0.030	0.117	0.001	0.934	0.818	0.935
	Bottom	0.037	0.505	0.026	0.094	0.568	0.636	0.662
	Right	0.060	0.003	0.207	0.000	0.270	0.063	0.270
	Left	0.777	0.567	0.000	0.162	1.344	1.506	1.506

Table 11-36

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

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.561	0.764	0.147	0.191	1.472	1.516	0.911*
	Top	0.787	0.475	0.117	0.001	1.379	1.263	1.380
	Bottom	0.037	0.013	0.026	0.094	0.076	0.144	0.170
	Right	0.060	0.621	0.207	0.000	0.888	0.681	0.888
	Left	0.777	0.006	0.000	0.162	0.783	0.945	0.945

Table 11-37

Inter-band ULCA Cellular Band Ant 3B and 1A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.633	0.550	0.147	0.191	1.330	1.374	1.521
	Top	0.542	0.030	0.117	0.001	0.689	0.573	0.690
	Bottom	0.009	0.505	0.026	0.094	0.540	0.608	0.634
	Right	0.149	0.003	0.207	0.000	0.359	0.152	0.359
	Left	0.021	0.567	0.000	0.162	0.588	0.750	0.750

Table 11-38

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

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.633	0.764	0.147	0.191	1.544	1.588	1.544*
	Top	0.542	0.475	0.117	0.001	1.134	1.018	1.135
	Bottom	0.009	0.013	0.026	0.094	0.048	0.116	0.142
	Right	0.149	0.621	0.207	0.000	0.977	0.770	0.977
	Left	0.021	0.006	0.000	0.162	0.027	0.189	0.189

Table 11-39

Inter-band ULCA Cellular Band Ant 4 and 3B Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.561	0.633	0.147	0.191	0.186	0.208	0.192	1.194*	1.194*
	Top	0.787	0.542	0.117	0.001	0.014	0.035	0.001	1.496	1.462
	Bottom	0.037	0.009	0.026	0.094	0.131	0.023	0.176	0.320	0.473
	Right	0.060	0.149	0.207	0.000	0.067	0.067	0.005	0.550	0.488
	Left	0.777	0.021	0.000	0.162	0.021	0.000	0.071	0.981	1.052

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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 266 of 293

Table 11-40

Inter-band ULCA Cellular Band Ant 4 and 2A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 2A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.561	0.663	0.147	0.191	0.186	0.208	0.192	1.057*	0.849*
	Top	0.787	0.044	0.117	0.001	0.014	0.035	0.001	0.998	0.964
	Bottom	0.037	0.710	0.026	0.094	0.131	0.023	0.176	1.021	1.174
	Right	0.060	0.764	0.207	0.000	0.067	0.067	0.005	1.165	1.103
	Left	0.777	0.013	0.000	0.162	0.021	0.000	0.071	0.973	1.044

Table 11-41

Inter-band ULCA Cellular Band Ant 4 and 1A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.561	0.550	0.147	0.191	0.186	0.208	0.192	0.941*	0.933*
	Top	0.787	0.030	0.117	0.001	0.014	0.035	0.001	0.984	0.950
	Bottom	0.037	0.505	0.026	0.094	0.131	0.023	0.176	0.816	0.969
	Right	0.060	0.003	0.207	0.000	0.067	0.067	0.005	0.404	0.342
	Left	0.777	0.567	0.000	0.162	0.021	0.000	0.071	1.527	0.869*

Table 11-42

Inter-band ULCA Cellular Band Ant 4 and 3A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.561	0.764	0.147	0.191	0.186	0.208	0.192	0.911*	0.911*
	Top	0.787	0.475	0.117	0.001	0.014	0.035	0.001	1.429	1.395
	Bottom	0.037	0.013	0.026	0.094	0.131	0.023	0.176	0.324	0.477
	Right	0.060	0.621	0.207	0.000	0.067	0.067	0.005	1.022	0.960
	Left	0.777	0.006	0.000	0.162	0.021	0.000	0.071	0.966	1.037

Table 11-43

Inter-band ULCA Cellular Band Ant 3B and 1A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.633	0.550	0.147	0.191	0.186	0.208	0.192	0.780*	0.933*
	Top	0.542	0.030	0.117	0.001	0.014	0.035	0.001	0.739	0.705
	Bottom	0.009	0.505	0.026	0.094	0.131	0.023	0.176	0.788	0.941
	Right	0.149	0.003	0.207	0.000	0.067	0.067	0.005	0.493	0.431
	Left	0.021	0.567	0.000	0.162	0.021	0.000	0.071	0.771	0.842

Table 11-44

Inter-band ULCA Cellular Band Ant 3B and 3A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.633	0.764	0.147	0.191	0.186	0.208	0.192	1.544*	1.544*
	Top	0.542	0.475	0.117	0.001	0.014	0.035	0.001	1.184	1.150
	Bottom	0.009	0.013	0.026	0.094	0.131	0.023	0.176	0.296	0.449
	Right	0.149	0.621	0.207	0.000	0.067	0.067	0.005	1.111	1.049
	Left	0.021	0.006	0.000	0.162	0.021	0.000	0.071	0.210	0.281

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SAR EVALUATION REPORT

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Document S/N:

1C2004270029-01-R2.BCG

Test Dates:

07/27/2020 – 08/18/2020

DUT Type:

Tablet Device

Page 267 of 293

Table 11-45
Simultaneous Transmission Scenario with 2.4 GHz Bluetooth

Simult Tx	Configuration	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body SAR	Back	0.696	1.185	1.185*
	Top	0.481	0.001	0.482
	Bottom	0.026	0.195	0.221
	Right	1.005	0.000	1.005
	Left	0.000	0.529	0.529

FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 268 of 293

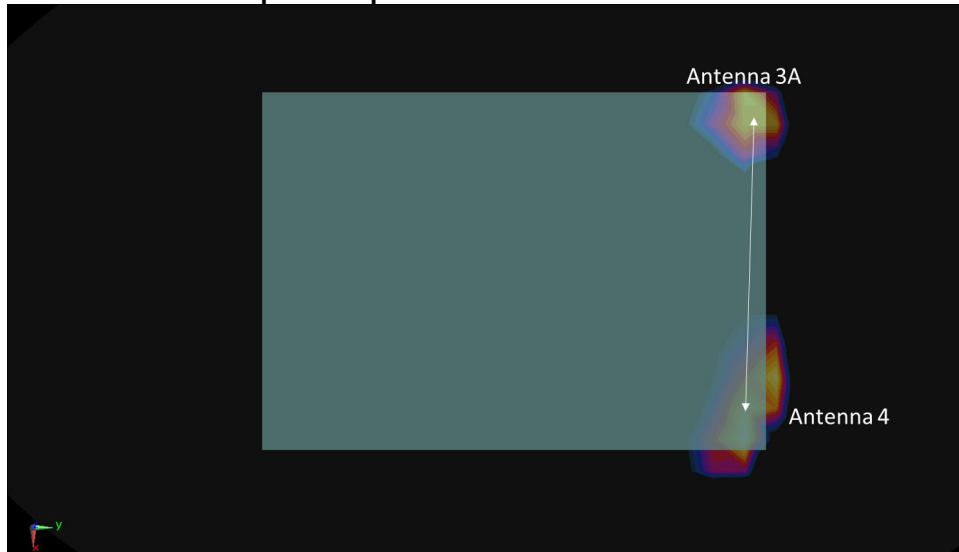
11.4 Spatial Separation Analysis

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 3A and Antenna 3A



FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 269 of 293

Figure 11-2
Back Side Spatial Separation for Antenna 4 and Antenna 1A

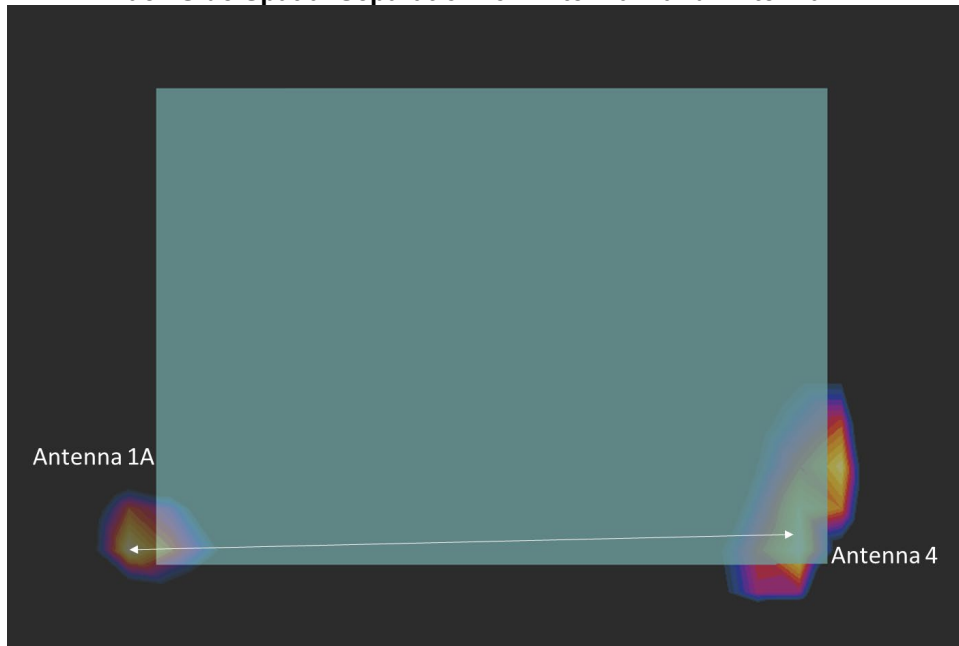
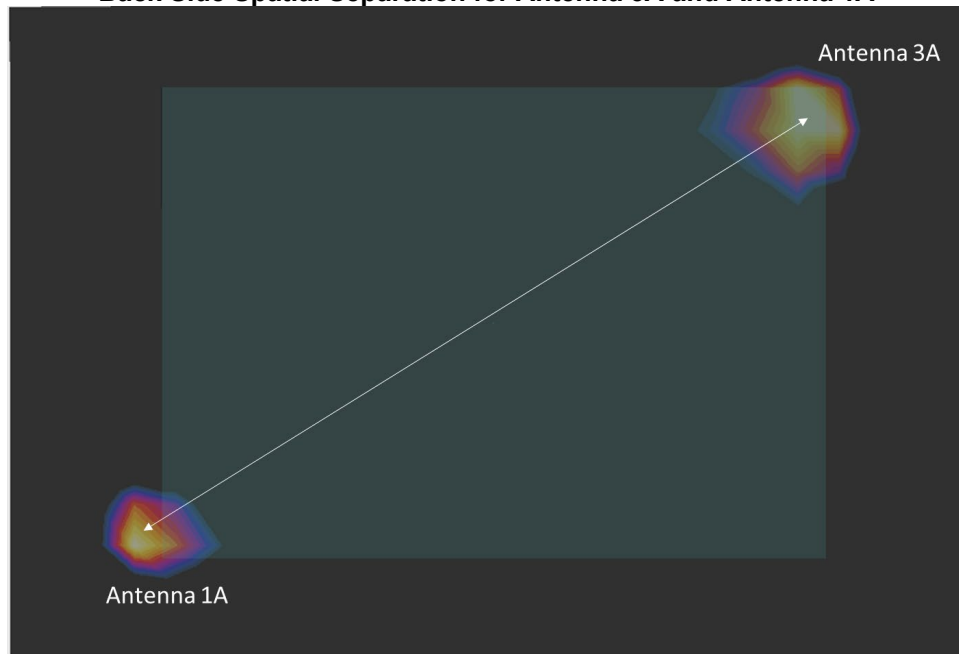


Figure 11-3
Back Side Spatial Separation for Antenna 3A and Antenna 1A



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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 270 of 293

Figure 11-4
Back Side Spatial Separation for Antenna 3B and Antenna 1A

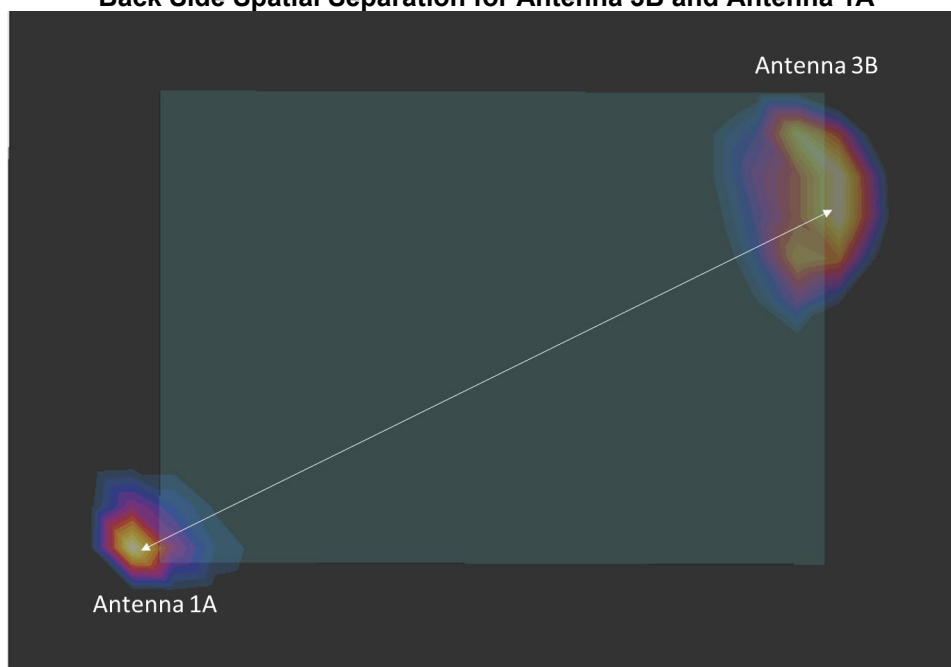
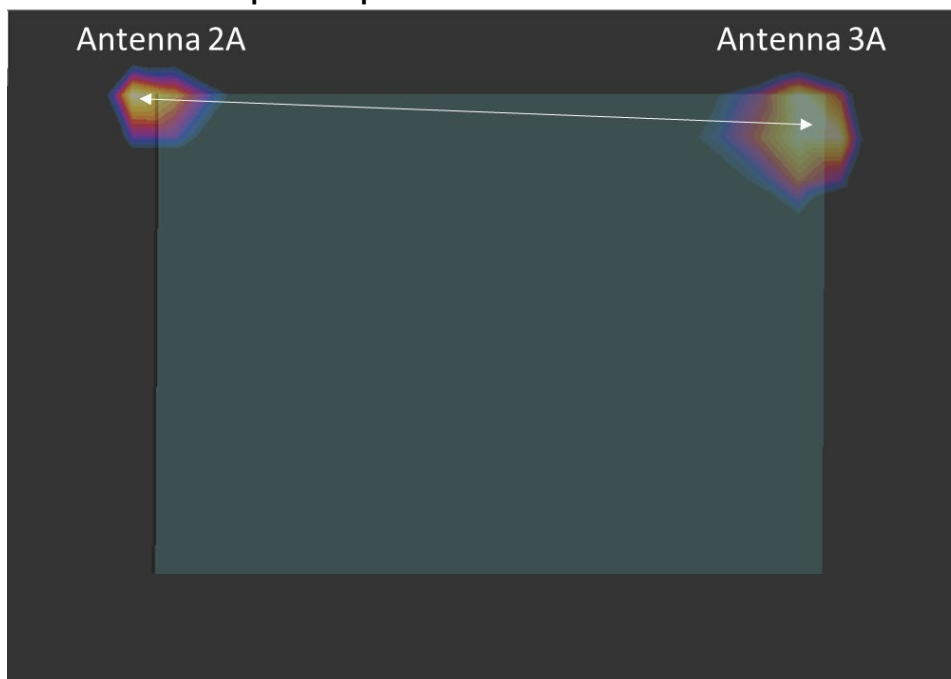


Figure 11-5
Back Side Spatial Separation for Antenna 2A and Antenna 3A



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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 271 of 293

Figure 11-6
Back Side Spatial Separation for Antenna 2A and Antenna 1A

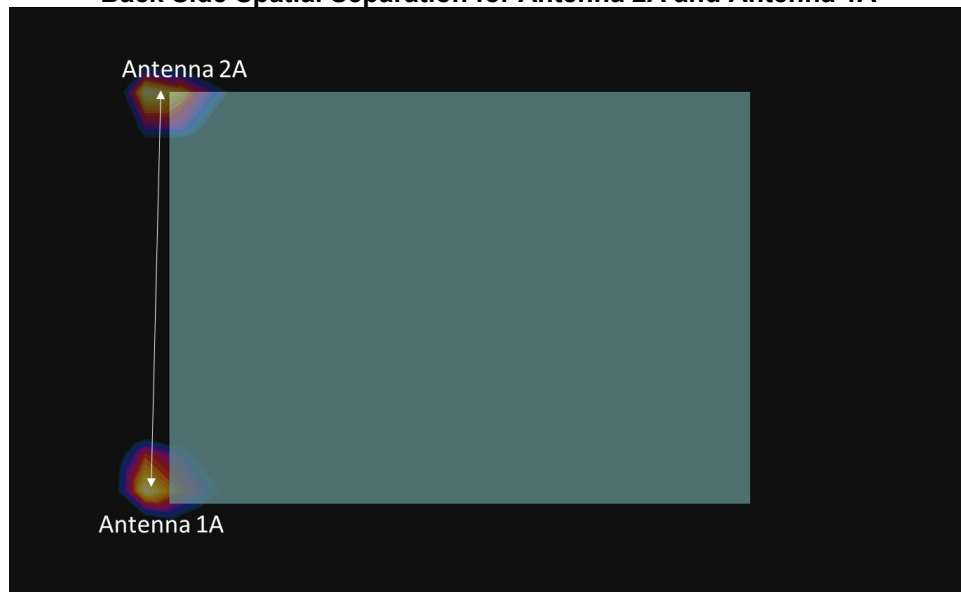
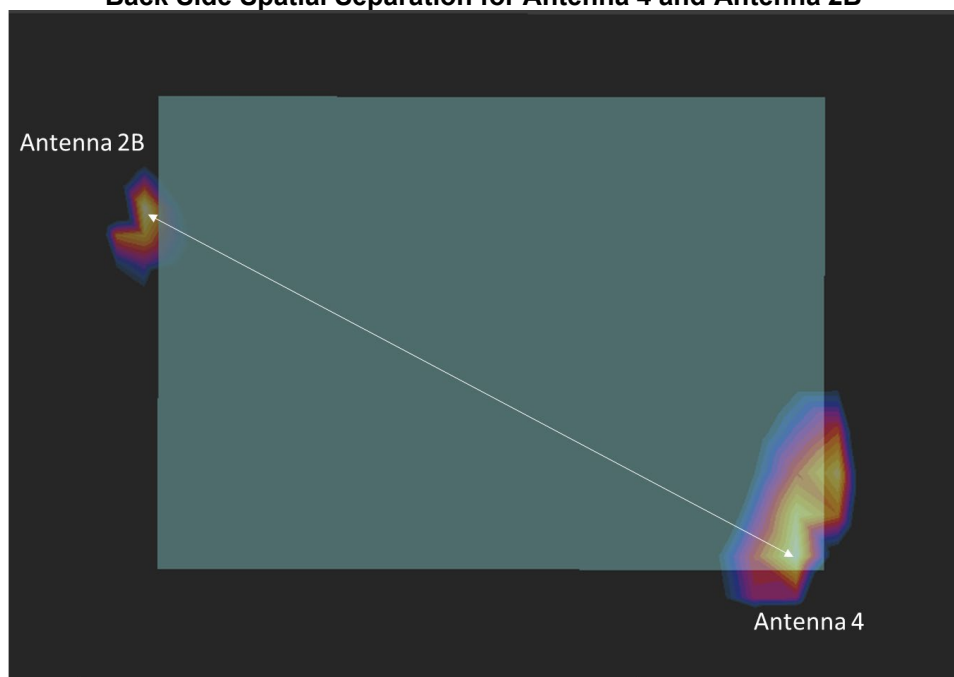


Figure 11-7
Back Side Spatial Separation for Antenna 4 and Antenna 2B



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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 272 of 293

Figure 11-8
Back Side Spatial Separation for Antenna 4 and Antenna 2A

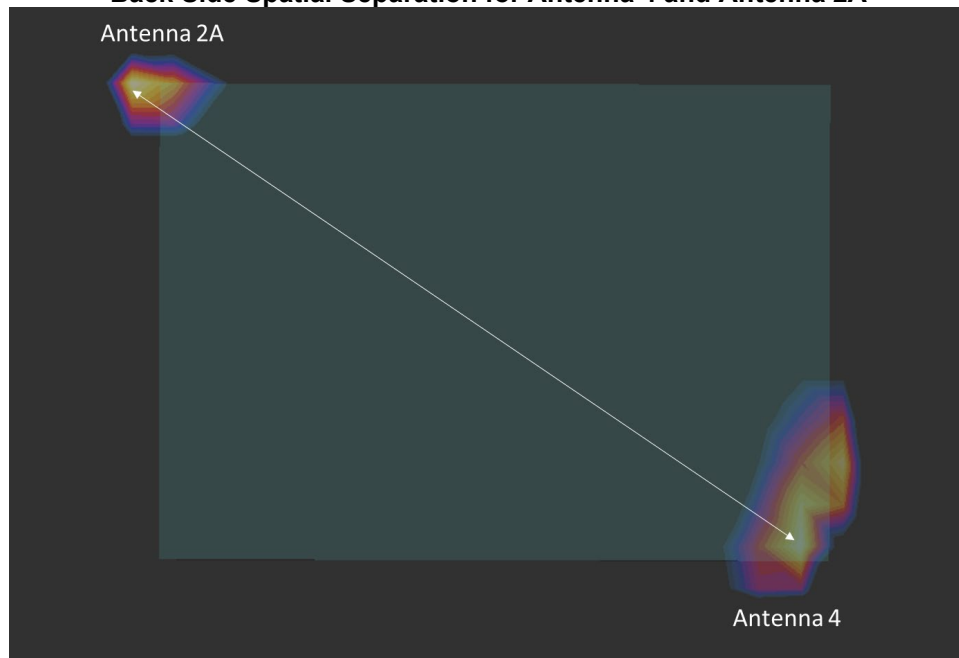
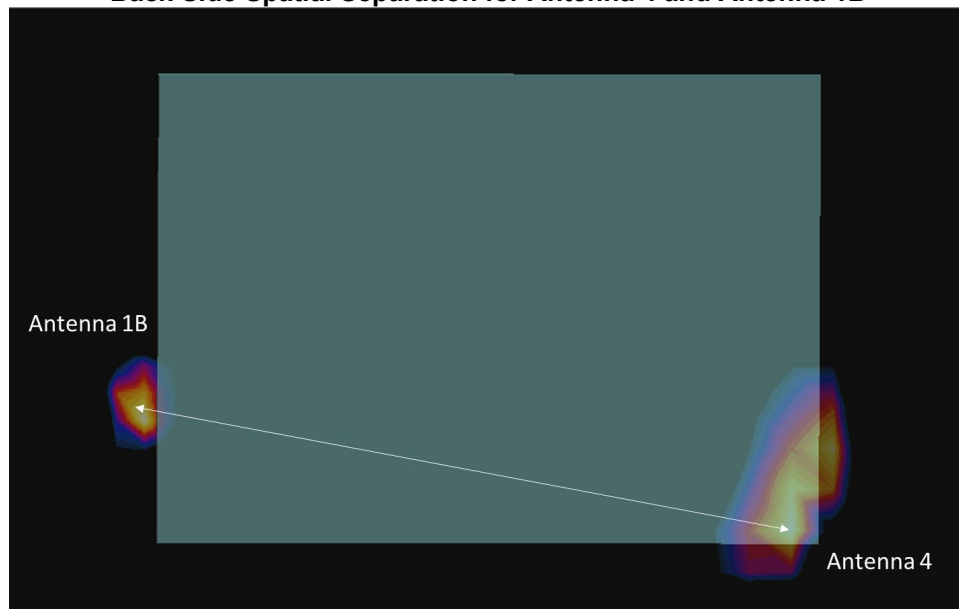


Figure 11-9
Back Side Spatial Separation for Antenna 4 and Antenna 1B



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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 273 of 293

Figure 11-10
Back Side Spatial Separation for Antenna 3B and Antenna 2A

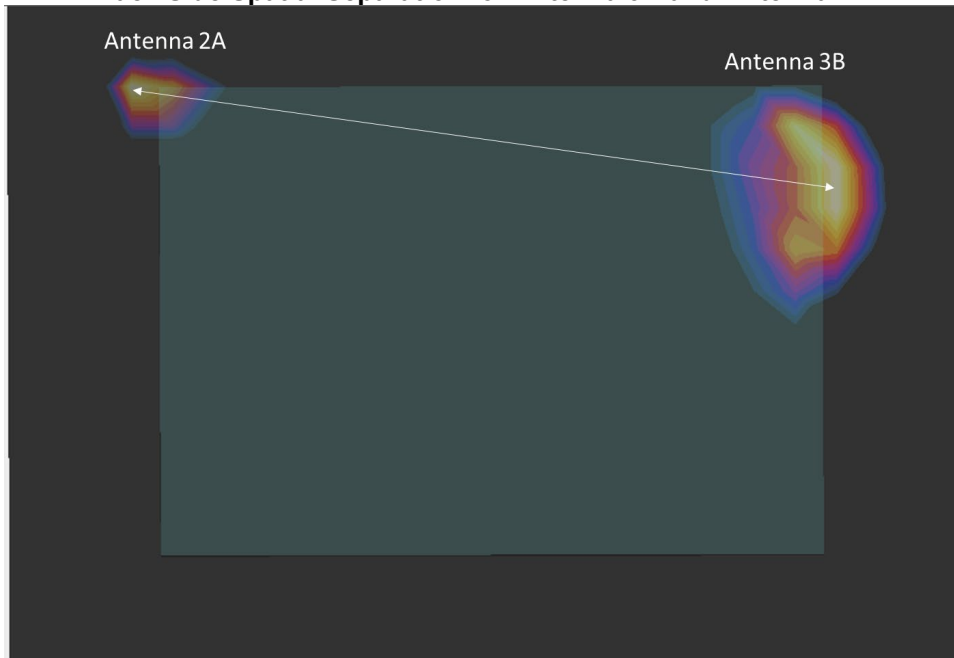
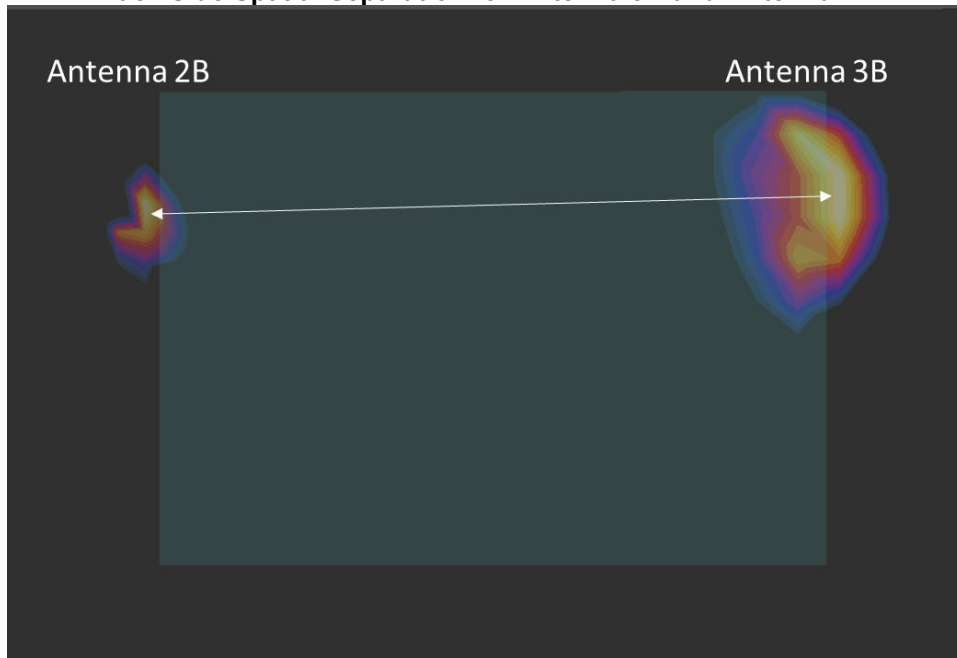


Figure 11-11
Back Side Spatial Separation for Antenna 3B and Antenna 2B



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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 274 of 293

Figure 11-12
Back Side Spatial Separation for Antenna 3B and Antenna 1B

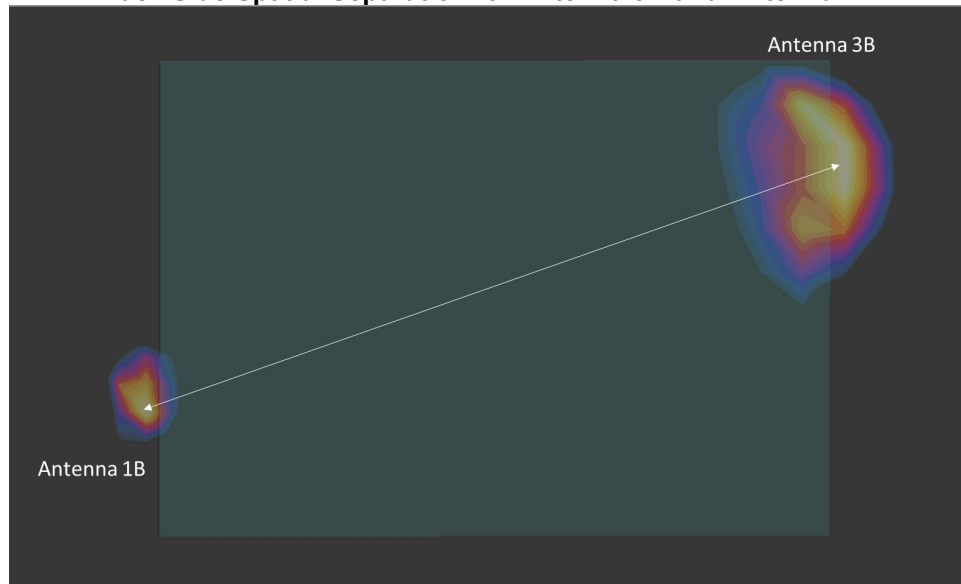
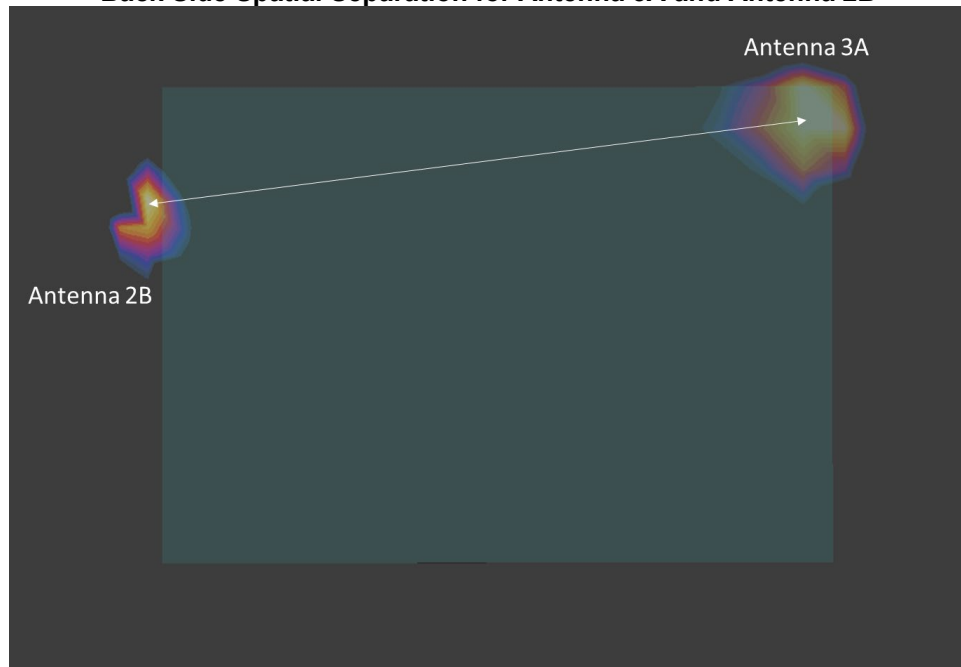


Figure 11-13
Back Side Spatial Separation for Antenna 3A and Antenna 2B



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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 275 of 293

Figure 11-14
Back Side Spatial Separation for Antenna 3A and Antenna 1B

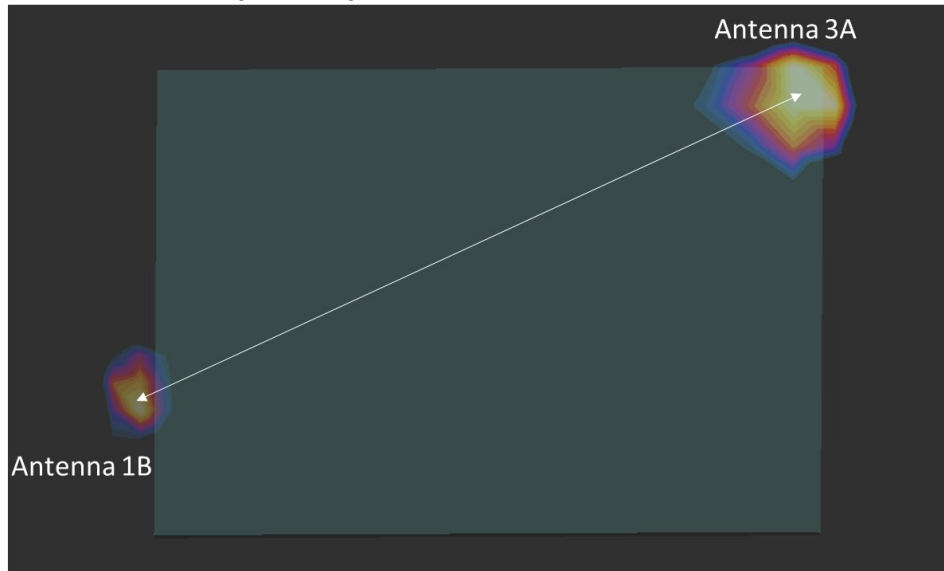
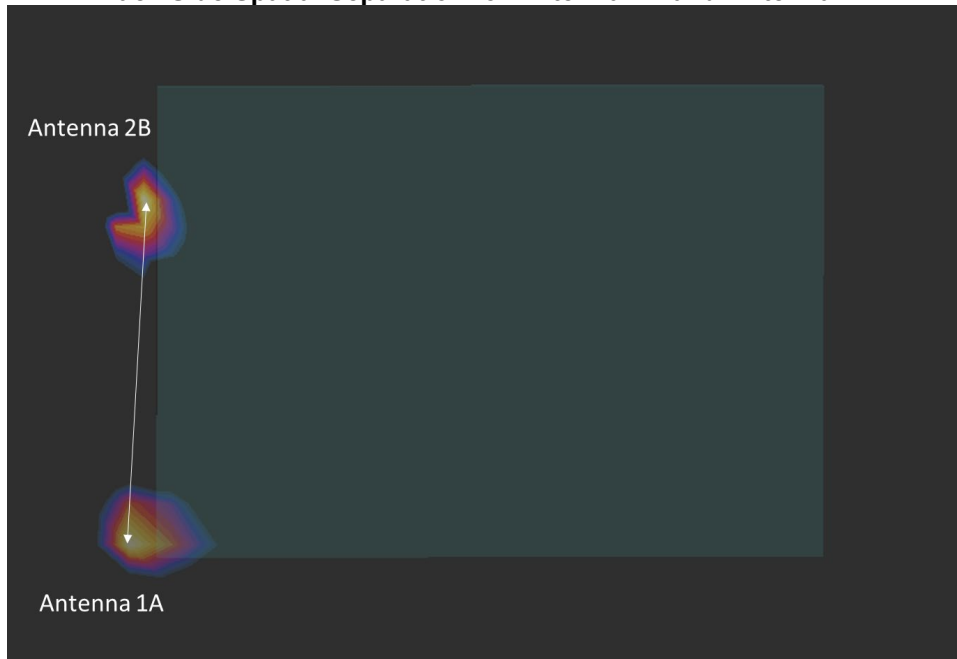


Figure 11-15
Back Side Spatial Separation for Antenna 1A and Antenna 2B



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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 276 of 293

Figure 11-16
Back Side Spatial Separation for Antenna 2A and Antenna 1B

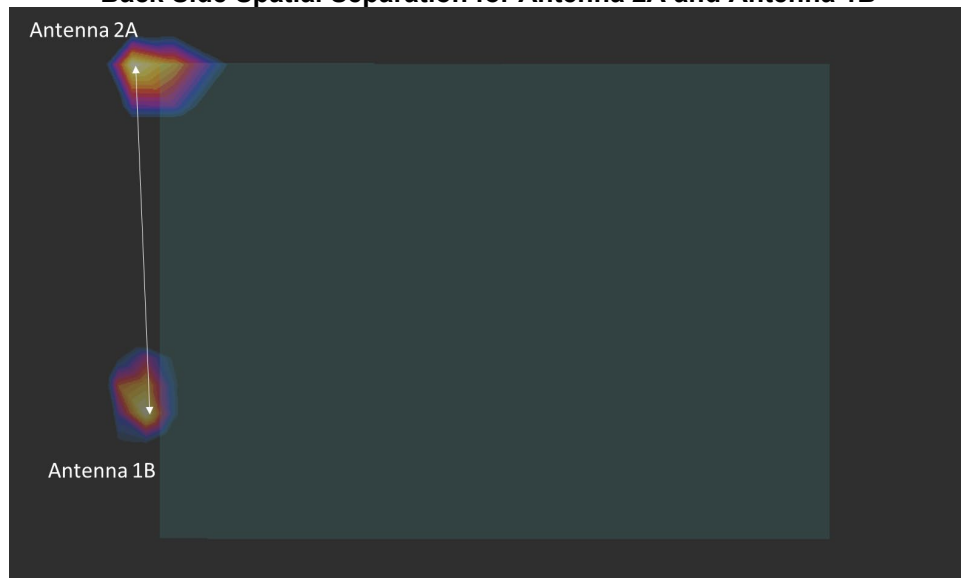


Figure 11-17
Back Side Spatial Separation for Antenna 1B and Antenna 2B



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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 277 of 293

11.4.2 Bottom Edge Spatial Separation Analysis

Figure 11-18
Bottom Side Spatial Separation for Antenna 2A and Antenna 1B

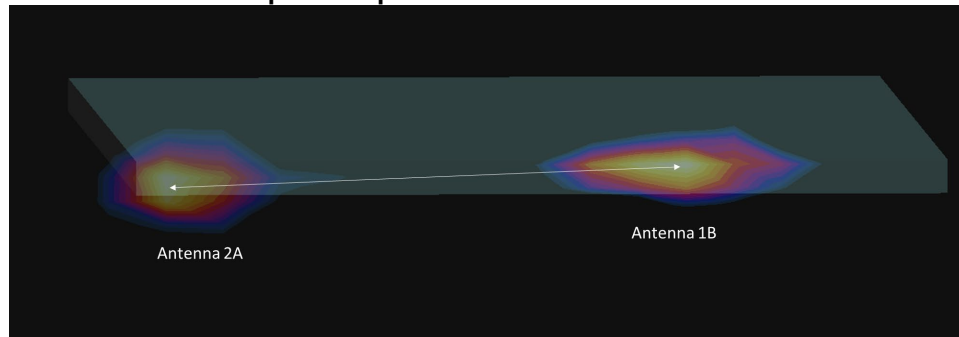
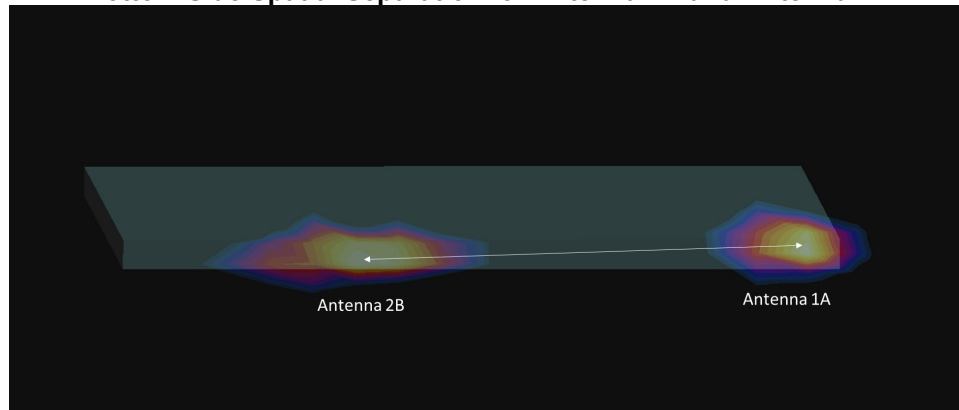
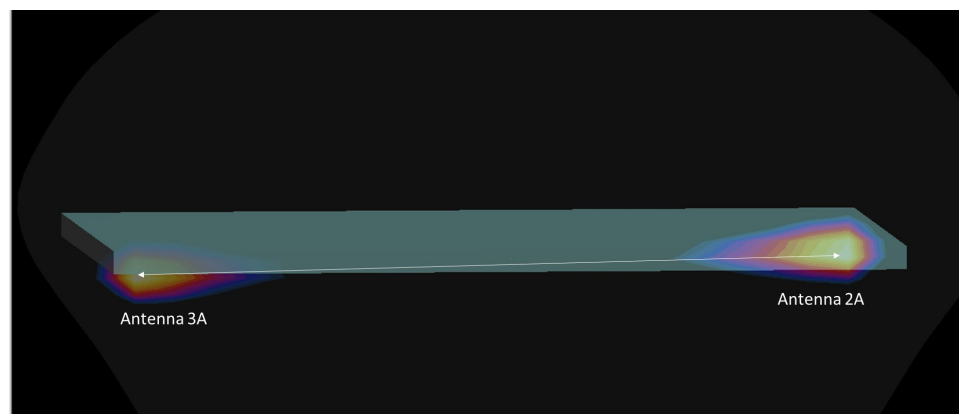


Figure 11-19
Bottom Side Spatial Separation for Antenna 2B and Antenna 1A



11.4.3 Right Edge Spatial Separation Analysis

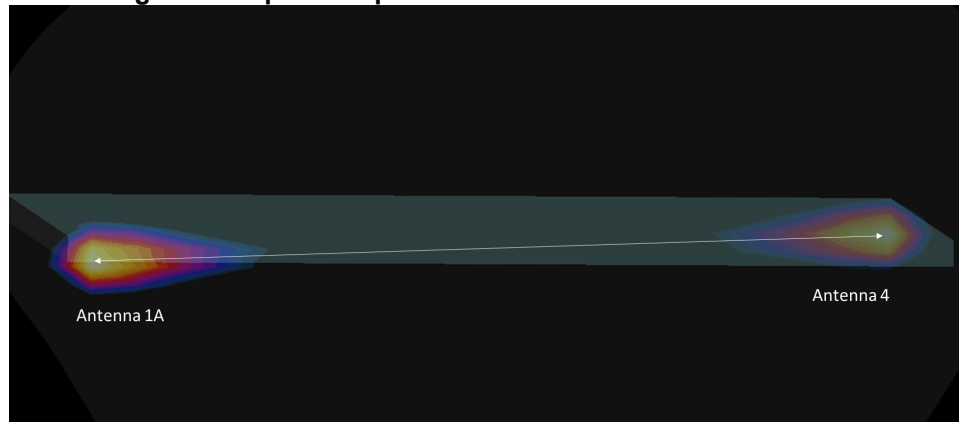
Figure 11-20
Right Side Spatial Separation for Antenna 2A and Antenna 3A



FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 278 of 293

11.4.4 Left Edge Spatial Separation Analysis

Figure 11-21
Right Side Spatial Separation for Antenna 4 and Antenna 1A



11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

FCC ID: BCGA2324	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 279 of 293

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	Service	Antenna	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
750	680.50	133297	LTE Band 71, 20 MHz Bandwidth	QPSK, 50 RB, 50 RB Offset	3B	N/A	top	0 mm	1.170	1.140	1.03	N/A	N/A	N/A	N/A
850	844.00	26990	LTE Band 26 (Cell), 10 MHz Bandwidth	QPSK, 25 RB, 12 RB Offset	4	N/A	left	0 mm	1.170	1.130	1.04	N/A	N/A	N/A	N/A
1750	1752.60	1513	UMTS 1750	RMC	4	N/A	back	0 mm	1.170	1.050	1.11	N/A	N/A	N/A	N/A
1900	1900.00	19100	LTE Band 2 (PCS), 20 MHz Bandwidth	QPSK, 100 RB, 0 RB Offset	4	N/A	back	0 mm	1.180	1.170	1.01	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 1 RB, 49 RB Offset	1A	N/A	back	0 mm	1.150	1.050	1.10	N/A	N/A	N/A	N/A
2450	2506.00	39750	LTE Band 41, 20 MHz Bandwidth	QPSK, 100 RB, 0 RB Offset	2A	N/A	back	0 mm	1.150	1.130	1.02	N/A	N/A	N/A	N/A
2600	2549.50	40185	LTE Band 41, 20 MHz Bandwidth	QPSK, 1 RB, 99 RB Offset	2A	N/A	back	0 mm	1.120	1.080	1.04	N/A	N/A	N/A	N/A
3500	3560.00	55340	LTE Band 48, 20 MHz Bandwidth	QPSK, 100 RB, 0 RB Offset	4	N/A	back	0 mm	1.110	1.020	1.09	N/A	N/A	N/A	N/A
3700	3690.00	56640	LTE Band 48, 20 MHz Bandwidth	QPSK, 1 RB, 99 RB Offset	4	N/A	back	0 mm	1.110	1.060	1.05	N/A	N/A	N/A	N/A
5250	5290.00	58	802.11ac, 80 MHz Bandwidth	OFDM	2B	29.3	back	0 mm	0.873	0.861	1.01	N/A	N/A	N/A	N/A
5600	5610.00	122	802.11ac, 80 MHz Bandwidth	OFDM	2B	29.3	back	0 mm	1.090	1.010	1.08	N/A	N/A	N/A	N/A
5750	5775.00	155	802.11ac, 80 MHz Bandwidth	OFDM	2B	29.3	back	0 mm	0.930	0.925	1.01	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body						
Spatial Peak									1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population									averaged over 1 gram						

12.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg for 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.

FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 280 of 293

13 ADDITIONAL TESTING PER FCC GUIDANCE

13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

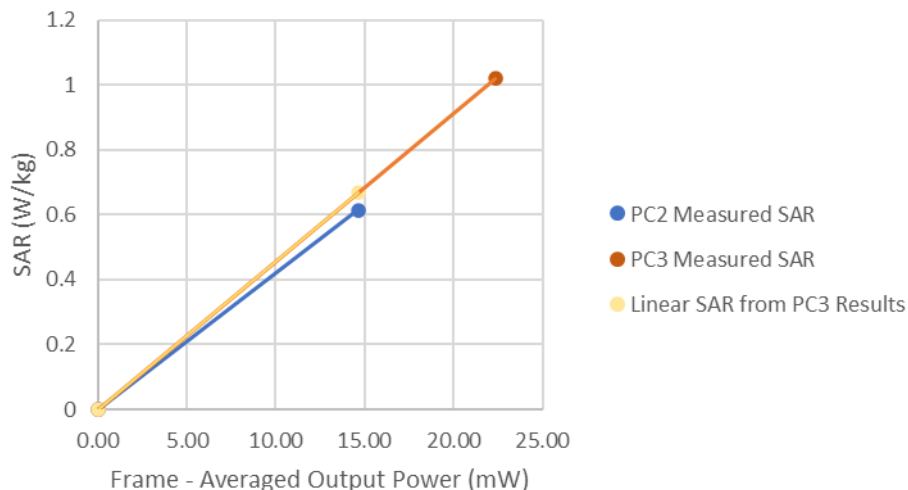
This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.6	15.6
Measured Output Power (dBm)	15.48	15.29
Measured SAR (W/kg)	1.02	0.615
Measured Power (mW)	35.32	33.81
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	22.36	14.64
% deviation from expected linearity		-7.91%

LTE B41 SAR for PC2 and PC3 Operations

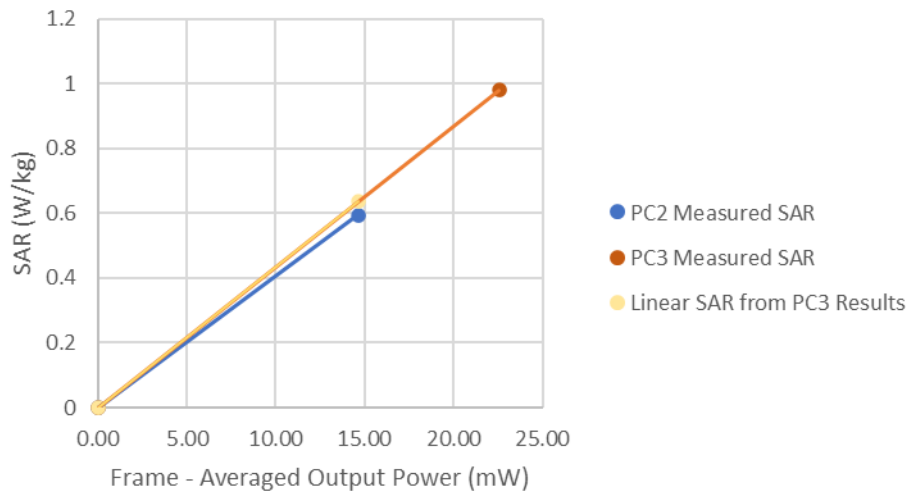


FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 281 of 293

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.6	15.6
Measured Output Power (dBm)	15.52	15.29
Measured SAR (W/kg)	0.981	0.594
Measured Power (mW)	35.65	33.81
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	22.56	14.64
% deviation from expected linearity		-6.67%

LTE B41 SAR for PC2 and PC3 Operations

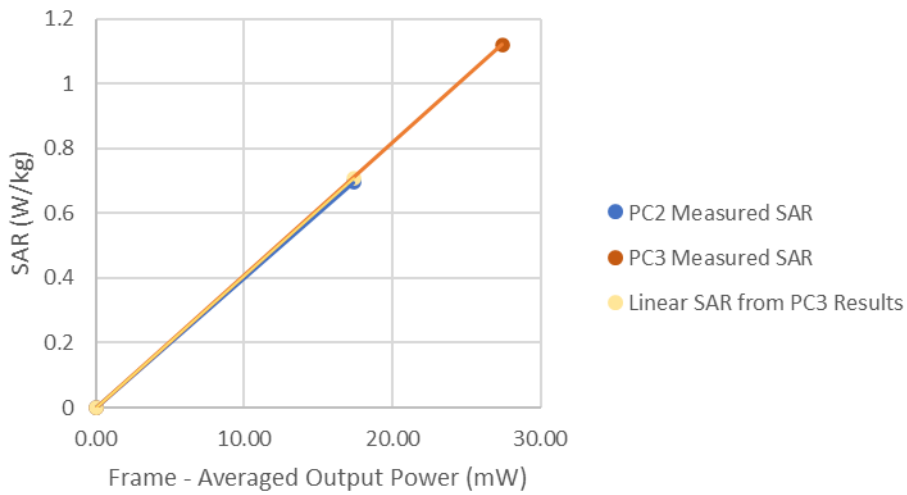


FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 282 of 293

Table 13-3
LTE Band 41 Body Linearity Data – Ant 2A

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.6	16.6
Measured Output Power (dBm)	16.37	16.04
Measured SAR (W/kg)	1.12	0.696
Measured Power (mW)	43.35	40.18
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	27.44	17.40
% deviation from expected linearity		-1.98%

LTE B41 SAR for PC2 and PC3 Operations

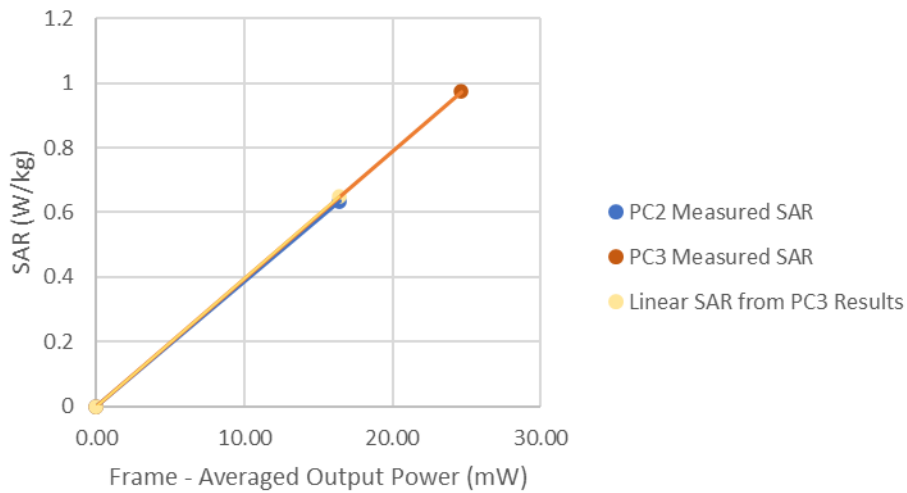


FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 283 of 293

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.6	16.6
Measured Output Power (dBm)	15.9	15.79
Measured SAR (W/kg)	0.973	0.634
Measured Power (mW)	38.90	37.93
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	24.63	16.42
% deviation from expected linearity		-2.30%

LTE B41 SAR for PC2 and PC3 Operations

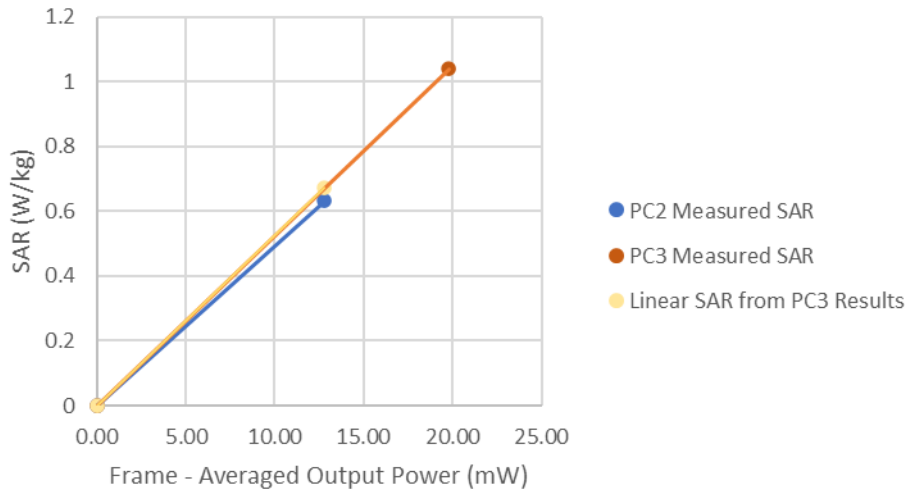


FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 284 of 293

Table 13-5
LTE Band 41 Body Linearity Data – Ant 1A

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15	15
Measured Output Power (dBm)	14.95	14.7
Measured SAR (W/kg)	1.04	0.632
Measured Power (mW)	31.26	29.51
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	19.79	12.78
% deviation from expected linearity		-5.90%

LTE B41 SAR for PC2 and PC3 Operations

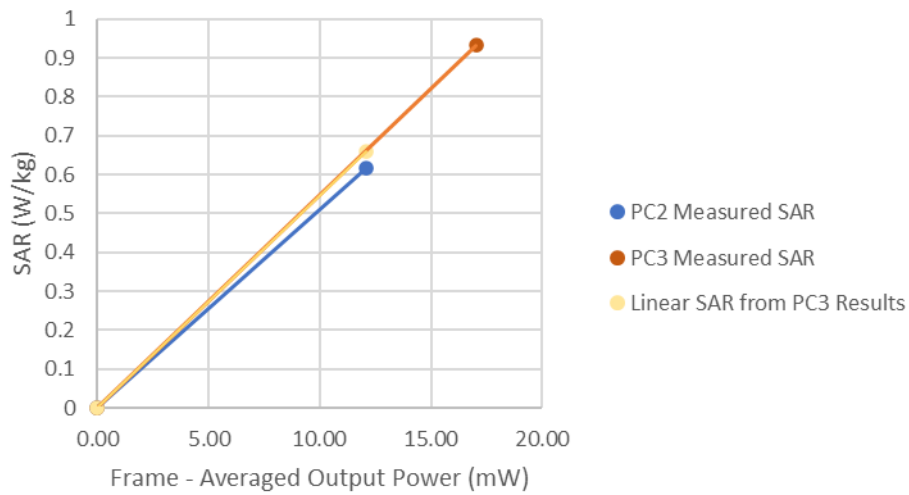


FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 285 of 293

Table 13-6
LTE Band 41 ULCA Body Linearity Data – Ant 1A

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15	15
Measured Output Power (dBm)	14.3	14.45
Measured SAR (W/kg)	0.932	0.616
Measured Power (mW)	26.92	27.86
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	17.04	12.06
% deviation from expected linearity		-6.66%

LTE B41 SAR for PC2 and PC3 Operations

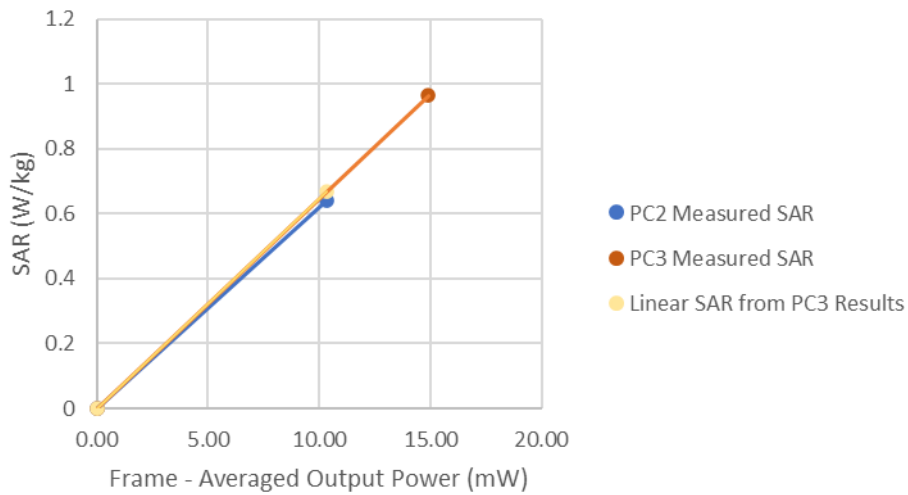


FCC ID: BCGA2324	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 286 of 293

Table 13-7
LTE Band 41 Body Linearity Data – Ant 3A

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.72	13.77
Measured SAR (W/kg)	0.964	0.64
Measured Power (mW)	23.55	23.82
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.91	10.32
% deviation from expected linearity		-4.06%

LTE B41 SAR for PC2 and PC3 Operations

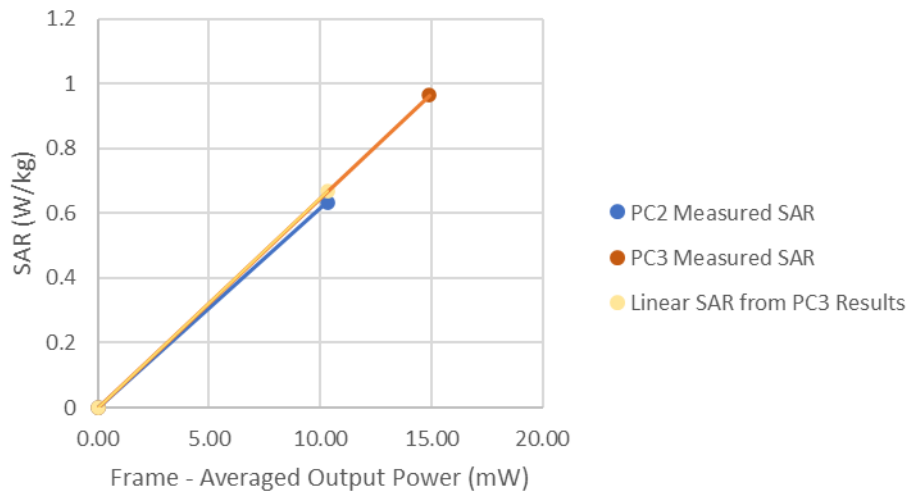


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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 287 of 293

Table 13-8
LTE Band 41 ULCA Body Linearity Data – Ant 3A

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.72	13.77
Measured SAR (W/kg)	0.964	0.635
Measured Power (mW)	23.55	23.82
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.91	10.32
% deviation from expected linearity		-4.81%

LTE B41 SAR for PC2 and PC3 Operations



FCC ID: BCGA2324	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 288 of 293

14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4438C	ESG Vector Signal Generator	9/11/2019	Annual	9/11/2020	MY45093678
Agilent	E4438C	ESG Vector Signal Generator	9/30/2019	Annual	9/30/2020	US41460739
Agilent	E4438C	ESG Vector Signal Generator	9/13/2019	Annual	9/13/2020	MY42081752
Agilent	E5515C	Wireless Communications Test Set	5/18/2020	Biennial	5/18/2022	GB43193591
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343971
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1520503
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1520501
Anritsu	MA24106A	USB Power Sensor	8/27/2019	Annual	8/27/2020	1827531
Anritsu	MA24106A	USB Power Sensor	7/24/2020	Annual	7/24/2021	1231538
Anritsu	MA2411B	Pulse Power Sensor	1/21/2020	Annual	1/21/2021	1339007
Anritsu	ML2495A	Power Meter	11/15/2019	Annual	11/15/2020	1039008
Anritsu	ML2496A	Power Meter	12/17/2019	Annual	12/17/2020	1138001
Anritsu	MT8821C	Radio Communication Analyzer	3/10/2020	Annual	3/10/2021	6200901190
Anritsu	MT8821C	Radio Communication Analyzer	5/21/2020	Annual	5/21/2021	6201144419
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766816
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766817
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766801
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766777
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291470
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291455
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291460
Insize	1108-150	Digital Caliper	1/17/2020	Biennial	1/17/2022	0409193536
MCL	BW-N3W5+	3dB Attenuator	CBT	N/A	CBT	1812
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1311
MCL	BW-N10W5+	10dB Attenuator	CBT	N/A	CBT	1611
Mini-Circuits	NLP-1000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	ZVC	Vector Network Analyzer	10/18/2018	Biennial	10/18/2020	100056
Rohde & Schwarz	FSP-7	Spectrum Analyzer	1/9/2020	Biennial	1/9/2022	100990
Rohde & Schwarz	CMW500	Radio Communication Tester	8/26/2019	Annual	8/26/2020	100976
Rohde & Schwarz	CMW500	Radio Communication Tester	8/20/2019	Annual	8/20/2020	106578
Rohde & Schwarz	CMW500	Radio Communication Tester	10/15/2019	Annual	10/15/2020	109366
Rohde & Schwarz	CMW500	Radio Communication Tester	8/27/2019	Annual	8/27/2020	116743
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2/4/2020	Annual	2/4/2021	162125
SPEAG	DAKS-3.5	Portable DAK	9/10/2019	Annual	9/10/2020	1045
SPEAG	D750V3	750 MHz SAR Dipole	9/8/2017	Triennial	9/8/2020	1097
SPEAG	D835V2	835 MHz SAR Dipole	5/18/2018	Triennial	5/18/2021	4d180
SPEAG	D850V2	850 MHz SAR Dipole	9/8/2017	Triennial	9/8/2020	1010
SPEAG	D1750V2	1750 MHz SAR Dipole	9/7/2017	Triennial	9/7/2020	1104
SPEAG	D1750V2	1750 MHz SAR Dipole	5/15/2018	Triennial	5/15/2021	1092
SPEAG	D1900V2	1900 MHz SAR Dipole	9/7/2017	Triennial	9/7/2020	5d181
SPEAG	D1900V2	1900 MHz SAR Dipole	6/19/2019	Biennial	6/19/2021	5d030
SPEAG	D2300V2	2300 MHz SAR Dipole	3/7/2018	Triennial	3/7/2021	1038
SPEAG	D2450V2	2450 MHz SAR Dipole	11/12/2018	Biennial	11/12/2020	921
SPEAG	D2450V2	2450 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	750
SPEAG	D2450V2	2450 MHz SAR Dipole	5/16/2018	Triennial	5/16/2021	945
SPEAG	D2600V2	2600 MHz SAR Dipole	9/11/2017	Triennial	9/11/2020	1069
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1042
SPEAG	D3500V2	3500 MHz SAR Dipole	8/16/2019	Biennial	8/16/2021	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	10/17/2019	Annual	10/17/2020	1002
SPEAG	D5GHzV2	5 GHz SAR Dipole	3/13/2018	Triennial	3/13/2021	1123
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2020	Annual	4/15/2021	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/14/2020	Annual	1/14/2021	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/19/2020	Annual	3/19/2021	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/13/2020	Annual	2/13/2021	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/14/2020	Annual	4/14/2021	1532
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/11/2020	Annual	6/11/2021	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/13/2019	Annual	11/13/2020	1213
SPEAG	EX3DV4	SAR Probe	4/20/2020	Annual	4/20/2021	7532
SPEAG	EX3DV4	SAR Probe	1/20/2020	Annual	1/20/2021	3837
SPEAG	EX3DV4	SAR Probe	3/20/2020	Annual	3/20/2021	7421
SPEAG	EX3DV4	SAR Probe	2/19/2020	Annual	2/19/2021	7427
SPEAG	EX3DV4	SAR Probe	12/13/2019	Annual	12/13/2020	7490
SPEAG	EX3DV4	SAR Probe	6/22/2020	Annual	6/22/2021	7416
SPEAG	EX3DV4	SAR Probe	11/21/2019	Annual	11/21/2020	7420

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.

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 289 of 293

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	60
Expanded Uncertainty (95% CONFIDENCE LEVEL)	k=2					23.0	22.6	

FCC ID: BCGA2324	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Page 290 of 293

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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Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 291 of 293

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FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 292 of 293

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FCC ID: BCGA2324	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2004270029-01-R2.BCG	Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Page 293 of 293

APPENDIX A: SAR TEST DATA

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

Communication System: UID 0, GSM GPRS; 2 Tx slots; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium: 835 Body Medium parameters used (interpolated):

$f = 824.2 \text{ MHz}$; $\sigma = 0.973 \text{ S/m}$; $\epsilon_r = 53.77$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-29-2020; Ambient Temp: 22.7°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 824.2 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: GPRS 850 Antenna 4, Body SAR, Back side, Low.ch, 2 Tx Slots

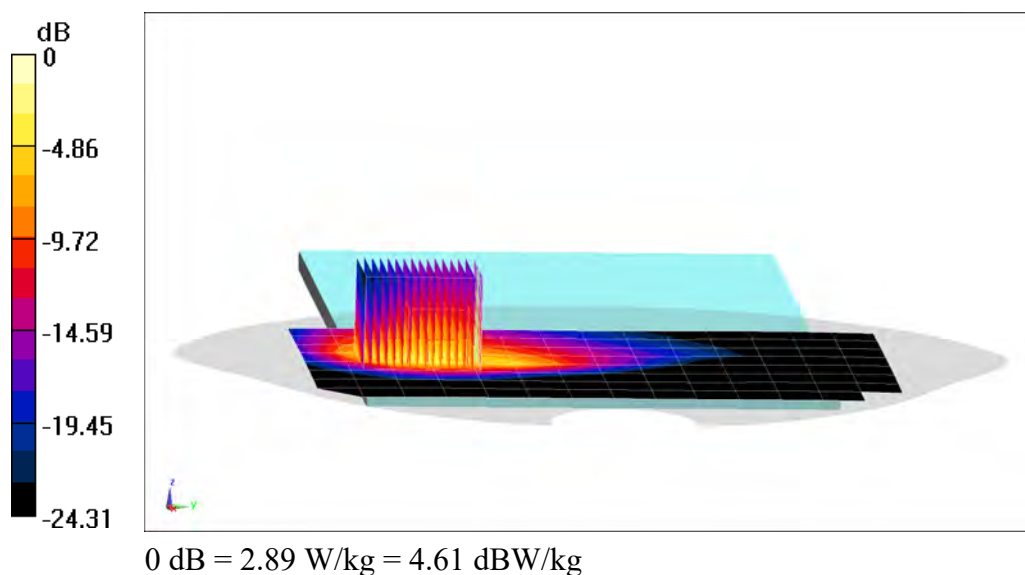
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (13x16x8)/Cube 0: Measurement grid: $dx=2.8\text{mm}$, $dy=2.8\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 31.81 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 7.56 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.569 W/kg



PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

Communication System: UID 0, GSM GPRS; 2 Tx slots; Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1850.2 \text{ MHz}$; $\sigma = 1.496 \text{ S/m}$; $\epsilon_r = 51.852$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-09-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN3837; ConvF(7.68, 7.68, 7.68) @ 1850.2 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: GPRS 1900 Antenna 4, Body SAR, Back side, Low.ch, 2 Tx Slots

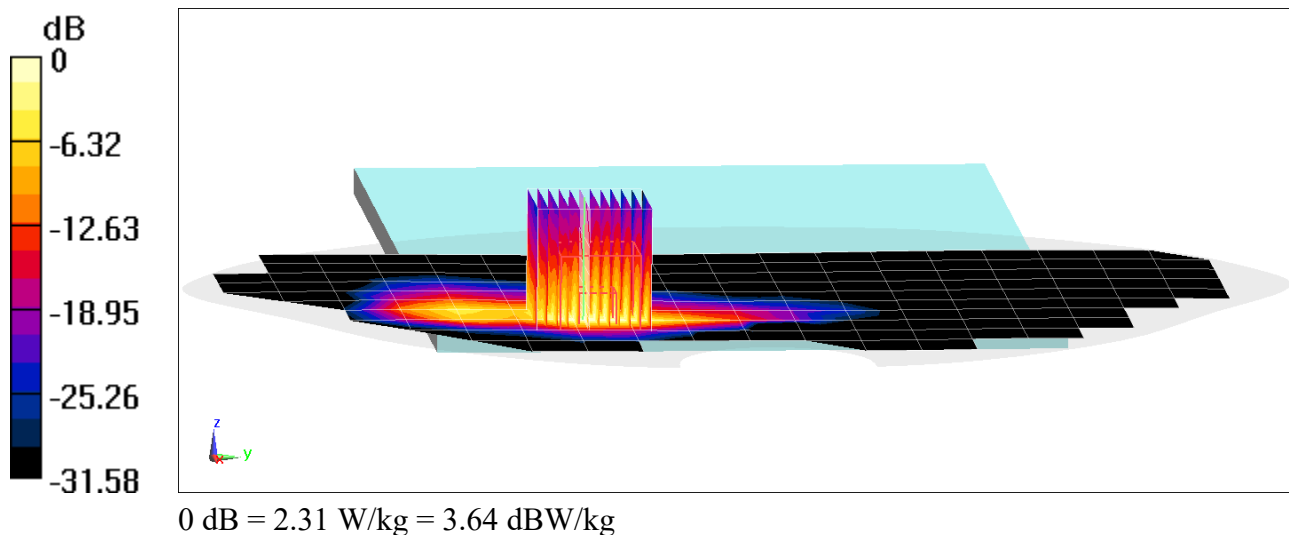
Area Scan (11x19x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (12x12x8)/Cube 0: Measurement grid: $dx=2.8\text{mm}$, $dy=2.8\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 29.62 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.91 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.430 W/kg



PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD101EQ8MQ

Communication System: UID 0, UMTS; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 826.4 \text{ MHz}$; $\sigma = 0.988 \text{ S/m}$; $\epsilon_r = 53.601$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3837; ConvF(9.37, 9.37, 9.37) @ 826.4 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 850 Antenna 4, Body SAR, Back side, Low.ch

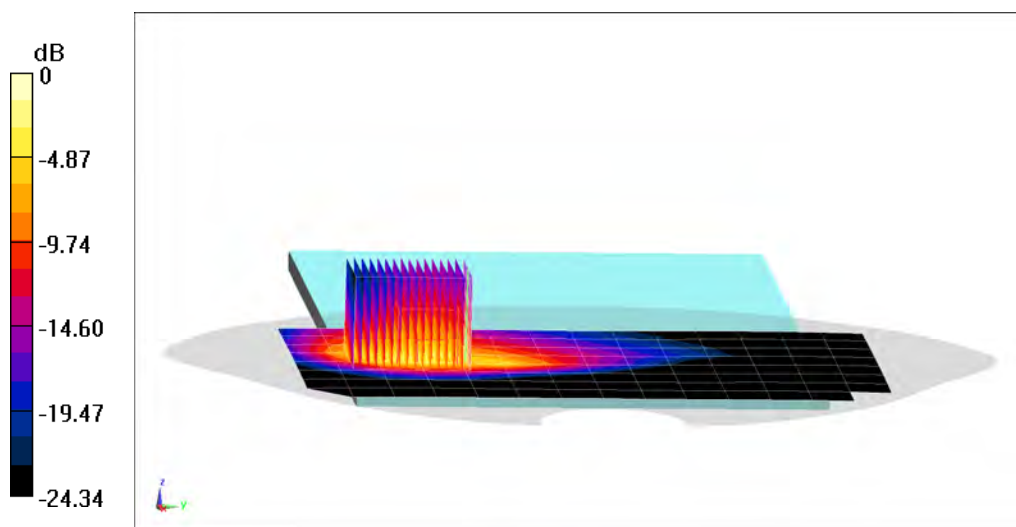
Area Scan (15x7x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

Zoom Scan (18x25x8)/Cube 0: Measurement grid: $dx=1.9\text{mm}$, $dy=1.9\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 22.68 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 25.2 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.444 W/kg



0 dB = 4.01 W/kg = 6.03 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1005Q8MW

Communication System: UID 0, UMTS; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1752.6 \text{ MHz}$; $\sigma = 1.5 \text{ S/m}$; $\epsilon_r = 51.547$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-13-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1752.6 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 1750 Antenna 4, Body SAR, Back side, High.ch

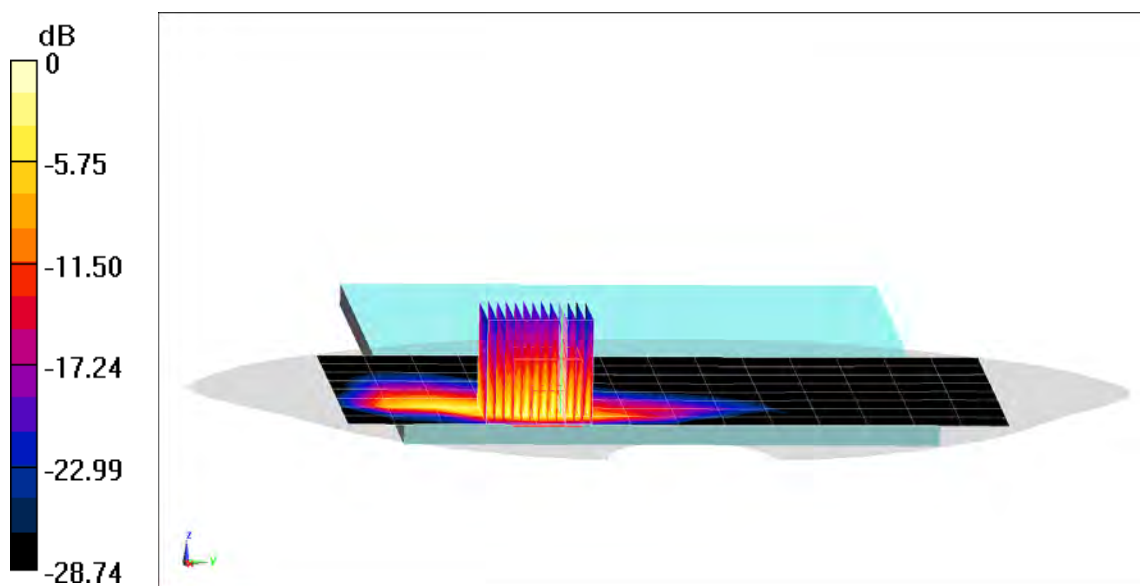
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (13x13x8)/Cube 0: Measurement grid: $dx=2.8\text{mm}$, $dy=2.8\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 29.88 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 5.00 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.463 W/kg



0 dB = 2.45 W/kg = 3.89 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100DQ8MW

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

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1907.6 \text{ MHz}$; $\sigma = 1.533 \text{ S/m}$; $\epsilon_r = 51.768$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-09-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN3837; ConvF(7.68, 7.68, 7.68) @ 1907.6 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 1900 Antenna 1A, Body SAR, Left Edge, High.ch

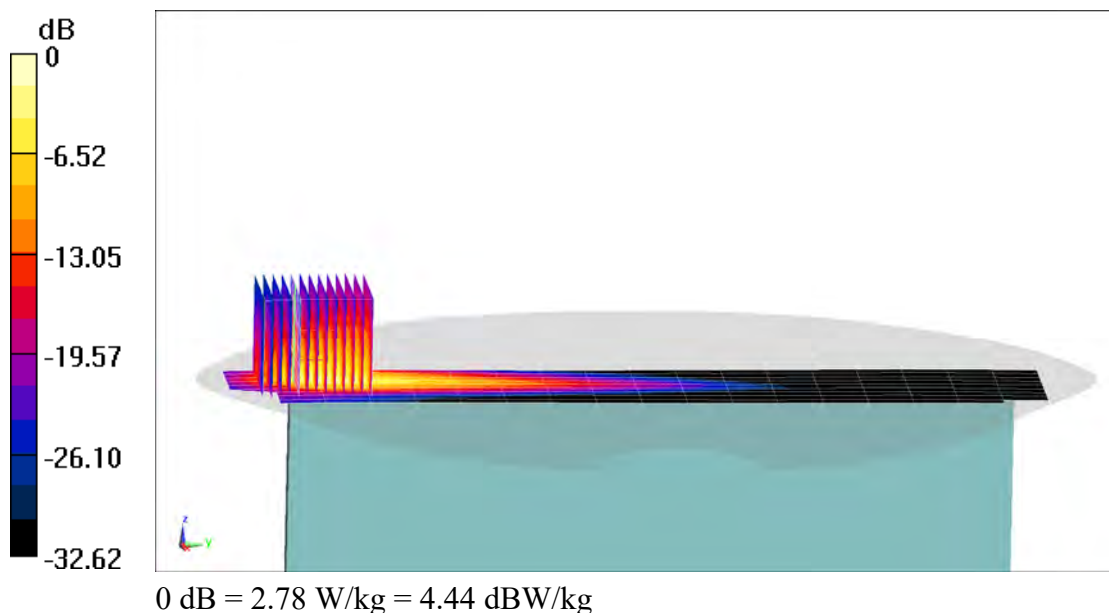
Area Scan (10x19x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

Zoom Scan (13x13x8)/Cube 0: Measurement grid: $dx=3\text{mm}$, $dy=3\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 22.96 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 6.97 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.431 W/kg



PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1010Q8MW

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$; $\sigma = 0.949 \text{ S/m}$; $\epsilon_r = 54.419$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-29-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 680.5 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 71 Antenna 3B, Body SAR, Top Edge, Mid.ch,
20 MHz Bandwidth, QPSK, 50 RB, 50 RB Offset**

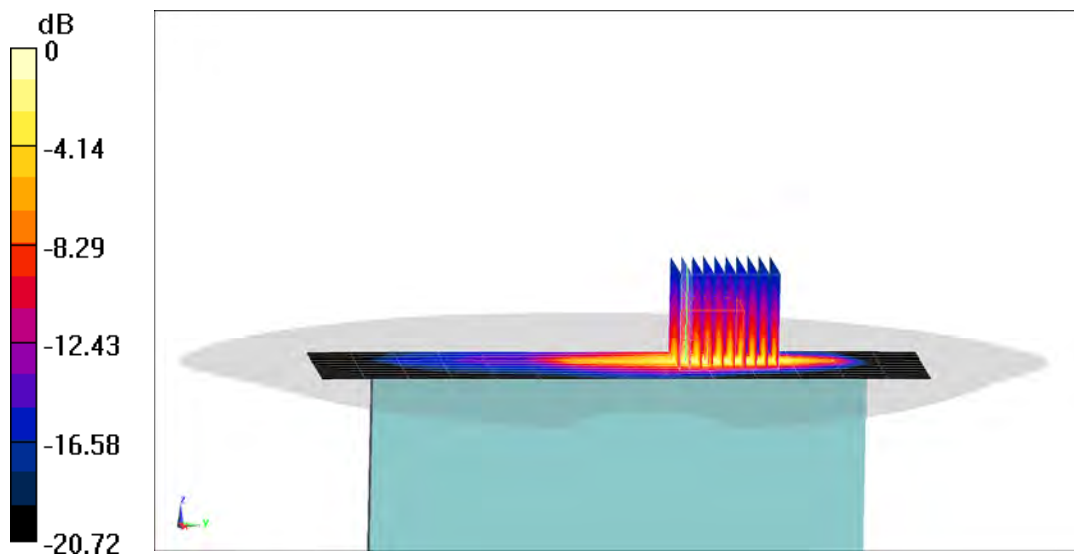
Area Scan (11x15x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

Zoom Scan (10x10x8)/Cube 0: Measurement grid: $dx=3.8\text{mm}$, $dy=3.8\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 34.14 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 7.17 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.536 W/kg



0 dB = 2.85 W/kg = 4.55 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1010Q8MW

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

Medium: 750 Body Medium parameters used (interpolated):

$f = 707.5$ MHz; $\sigma = 0.958$ S/m; $\epsilon_r = 53.451$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-31-2020; Ambient Temp: 22.1°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 707.5 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 12 Antenna 4, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

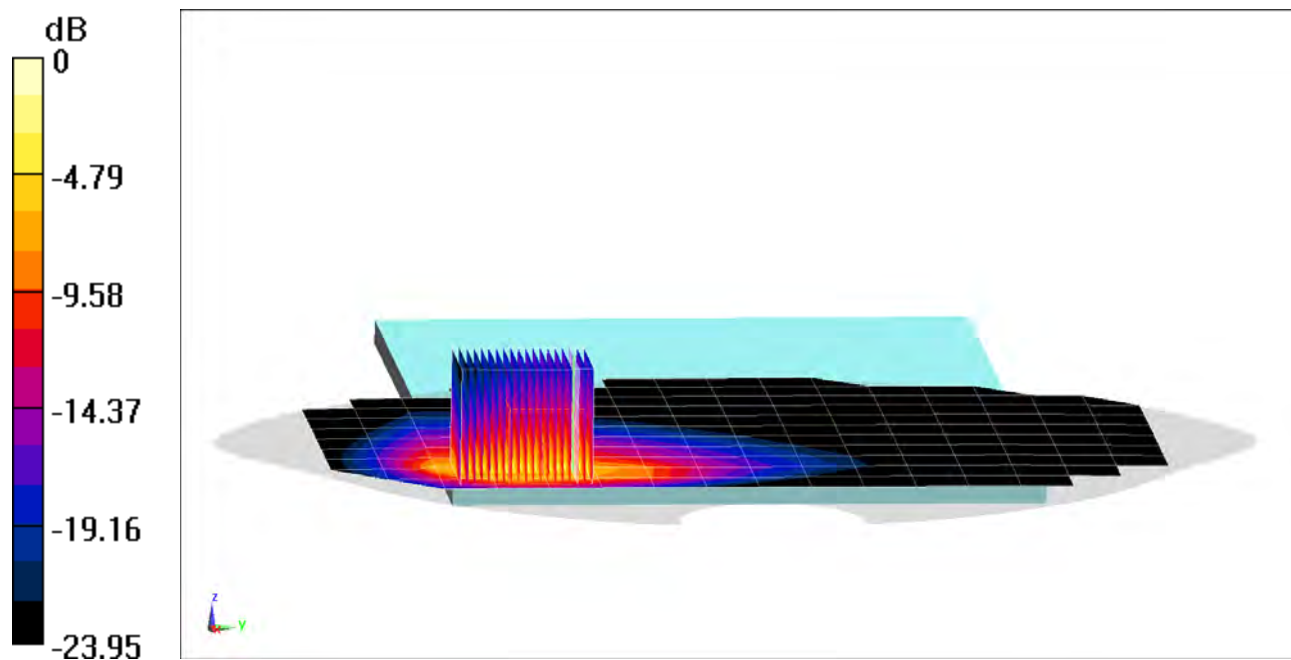
Area Scan (12x17x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (16x19x8)/Cube 0: Measurement grid: dx=2.1mm, dy=2.1mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 29.84 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 10.9 W/kg

SAR(1 g) = 0.955 W/kg; SAR(10 g) = 0.419 W/kg



0 dB = 2.71 W/kg = 4.33 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1010Q8MW

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 782 \text{ MHz}$; $\sigma = 0.986 \text{ S/m}$; $\epsilon_r = 54.216$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-29-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 782 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 13 Antenna 3B, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

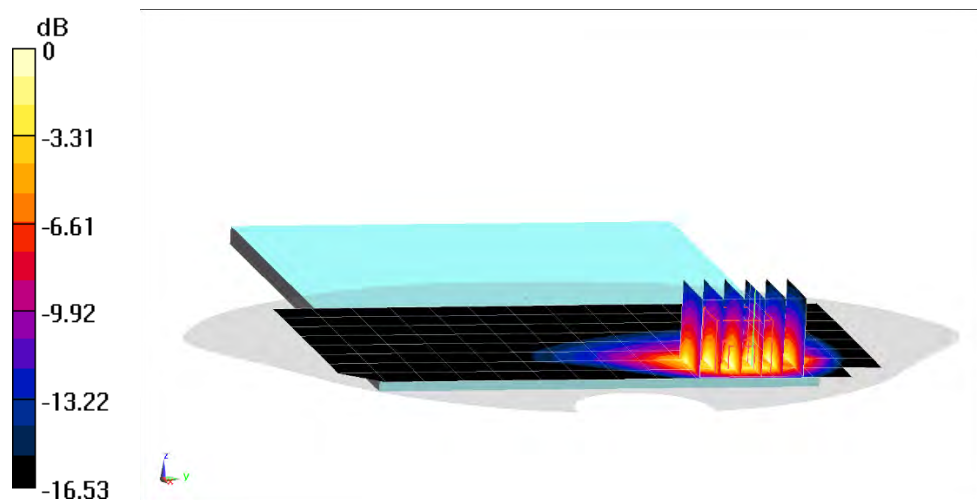
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Reference Value = 34.63 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.57 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.564 W/kg



0 dB = 1.70 W/kg = 2.30 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1010Q8MW

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 793 \text{ MHz}$; $\sigma = 0.99 \text{ S/m}$; $\epsilon_r = 54.182$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-29-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 793 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 14 Antenna 3B, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

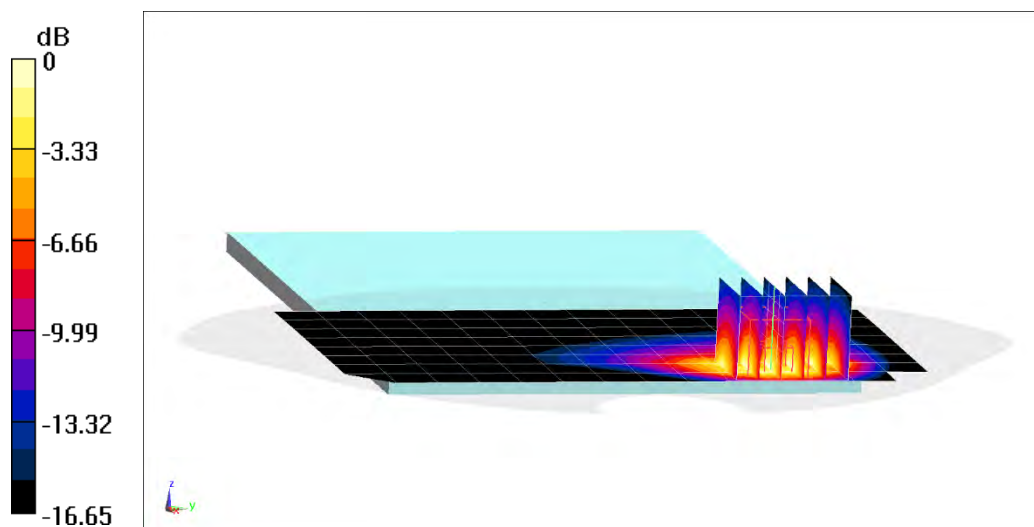
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 31.44 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 0.974 W/kg; SAR(10 g) = 0.491 W/kg



0 dB = 1.46 W/kg = 1.64 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD101EQ8MQ

Communication System: UID 0, _LTE Band 26; Frequency: 844 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 844 \text{ MHz}$; $\sigma = 0.994 \text{ S/m}$; $\epsilon_r = 53.567$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3837; ConvF(9.37, 9.37, 9.37) @ 844 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 26 (Cell.) Antenna 4, Body SAR, Left Edge, High.ch,
10 MHz Bandwidth, QPSK, 25 RB, 12 RB Offset**

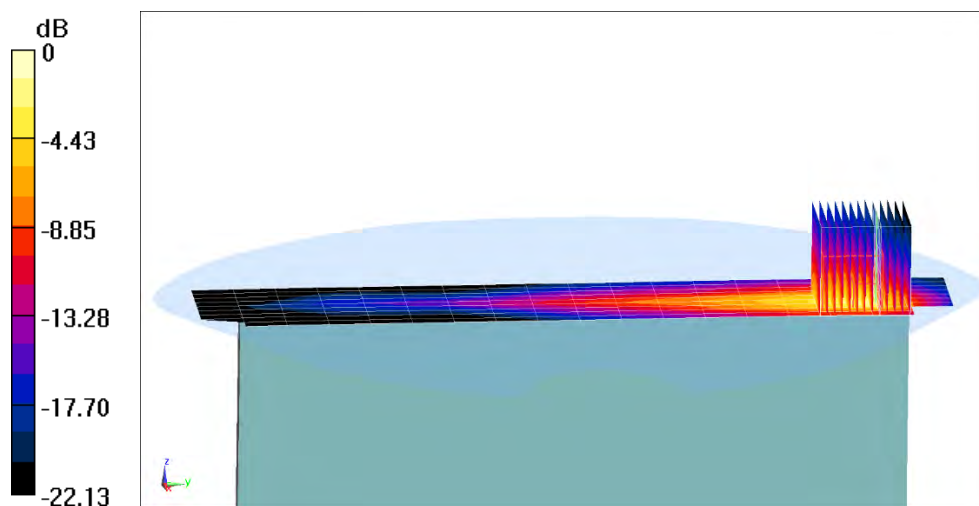
Area Scan (10x7x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (13x13x8)/Cube 0: Measurement grid: dx=2.7mm, dy=2.7mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 32.45 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 11.2 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.476 W/kg



0 dB = 3.48 W/kg = 5.42 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1010Q8MW

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

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.98 \text{ S/m}$; $\epsilon_r = 52.904$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 836.5 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 5 (Cell.) Antenna 3B, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

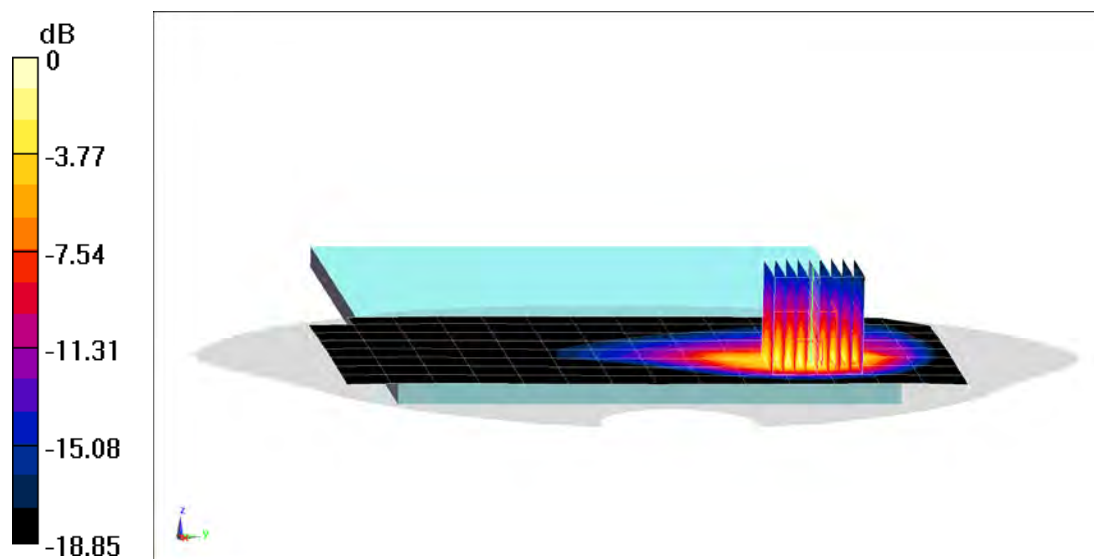
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (9x9x8)/Cube 0: Measurement grid: $dx=3.8\text{mm}$, $dy=3.8\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 34.14 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.549 W/kg



0 dB = 2.06 W/kg = 3.14 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1004Q8MW

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

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1732.5 \text{ MHz}$; $\sigma = 1.485 \text{ S/m}$; $\epsilon_r = 51.252$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-03-2020; Ambient Temp: 22.9°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1732.5 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 4 (AWS) Antenna 2A, Body SAR, Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 100 RB, 0 RB Offset**

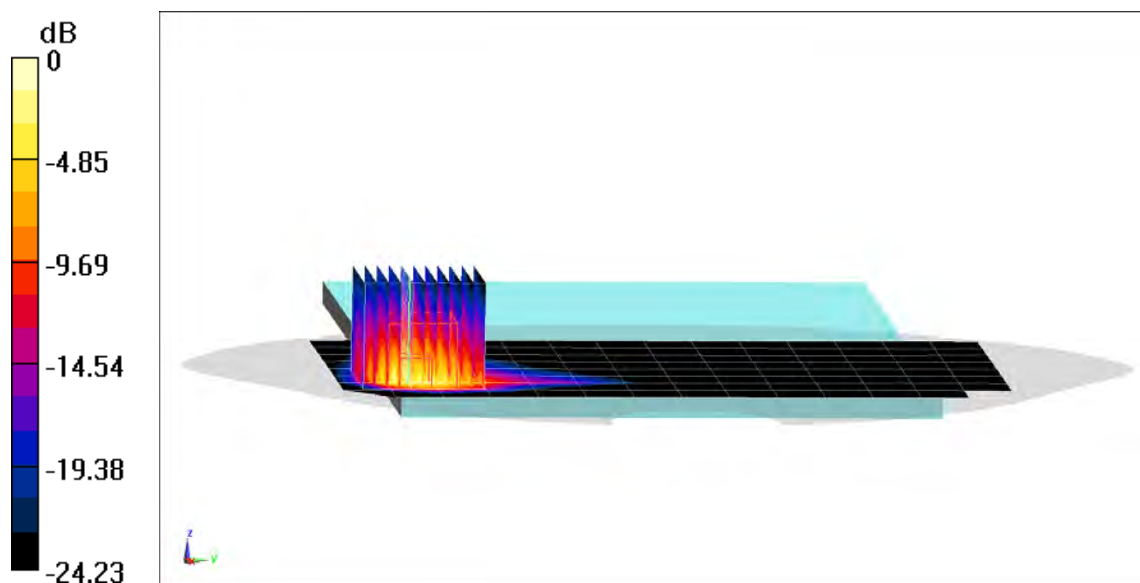
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (11x11x8)/Cube 0: Measurement grid: $dx=3.8\text{mm}$, $dy=3.8\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 26.09 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.35 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.515 W/kg



0 dB = 2.52 W/kg = 4.01 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1004Q8MW

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1720 \text{ MHz}$; $\sigma = 1.459 \text{ S/m}$; $\epsilon_r = 51.35$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-30-2020; Ambient Temp: 23.3°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1720 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 66 (AWS) Antenna 2A, Body SAR, Back side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

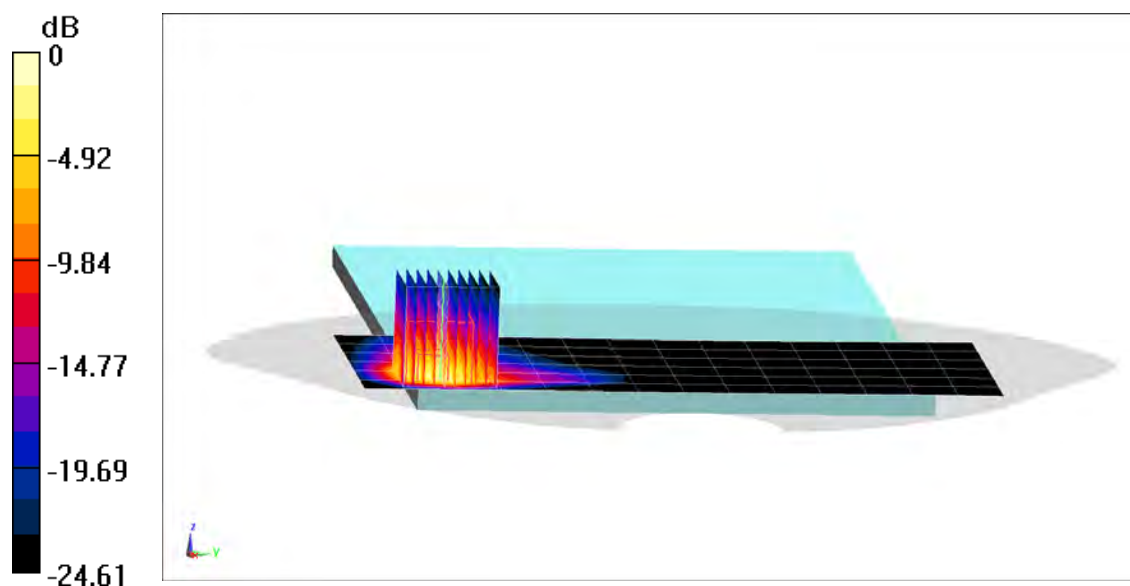
Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (10x10x8)/Cube 0: Measurement grid: $dx=3.4\text{mm}$, $dy=3.4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 26.92 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.14 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.497 W/kg



0 dB = 2.46 W/kg = 3.91 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

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

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.584 \text{ S/m}$; $\epsilon_r = 51.807$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-07-2020; Ambient Temp: 22.5°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN7490; ConvF(8.22, 8.22, 8.22) @ 1900 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0 SUB; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 2 (PCS) Antenna 4, Body SAR, Back side, High.ch,
20 MHz Bandwidth, QPSK, 100 RB, 0 RB Offset**

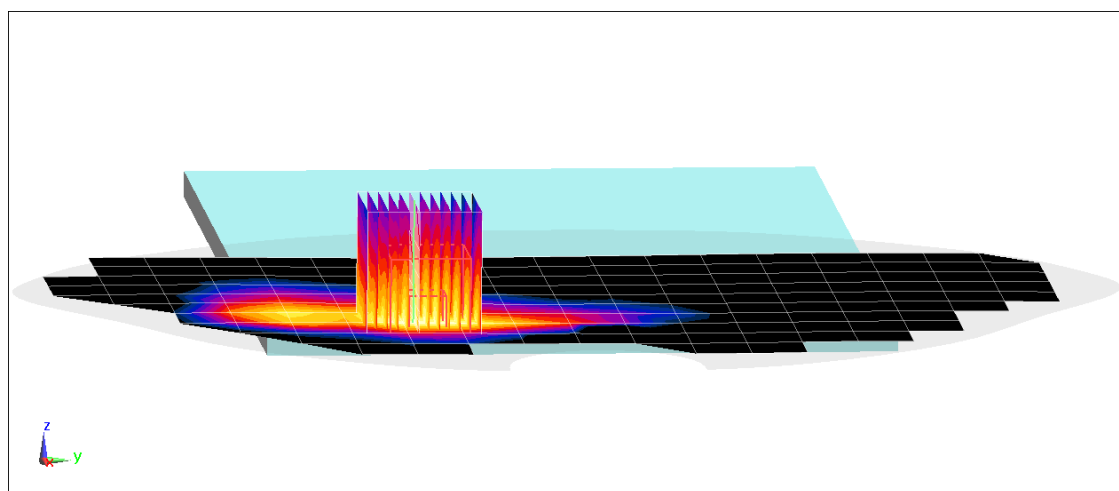
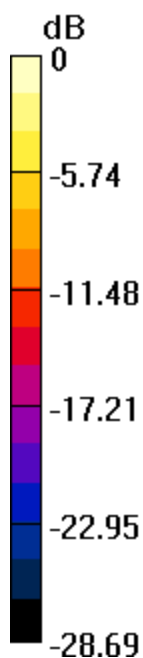
Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (21x21x8)/Cube 0: Measurement grid: dx=1.5mm, dy=1.5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 28.75 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.88 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.442 W/kg



0 dB = 2.50 W/kg = 3.98 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1905 \text{ MHz}$; $\sigma = 1.589 \text{ S/m}$; $\epsilon_r = 51.588$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-28-2020; Ambient Temp: 22.1°C; Tissue Temp: 23.5°C

Probe: EX3DV4 - SN7490; ConvF(8.22, 8.22, 8.22) @ 1905 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0 SUB; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 25 (PCS) Antenna 2A, Body SAR, Back side, High.ch,
20 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

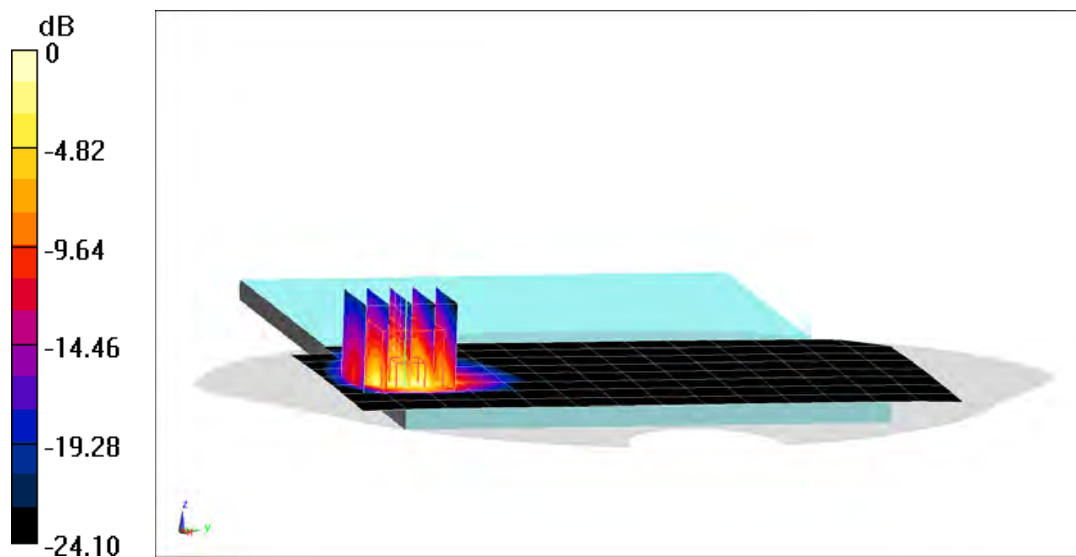
Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 24.93 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.517 W/kg



0 dB = 2.21 W/kg = 3.44 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100LQ8MQ

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2300 Body Medium parameters used:

$f = 2310 \text{ MHz}$; $\sigma = 1.852 \text{ S/m}$; $\epsilon_r = 52.278$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7416; ConvF(7.48, 7.48, 7.48) @ 2310 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 30 Antenna 1A, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset**

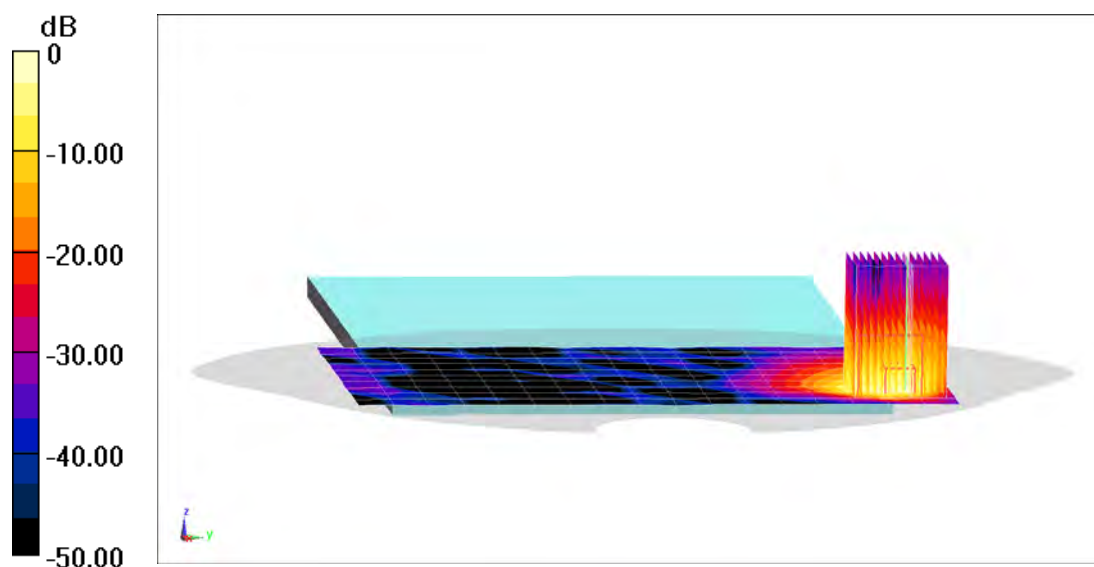
Area Scan (11x18x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (14x14x8)/Cube 0: Measurement grid: $dx=2.4\text{mm}$, $dy=2.4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 24.57 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 6.11 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.487 W/kg



0 dB = 2.96 W/kg = 4.71 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2510 \text{ MHz}$; $\sigma = 2.108 \text{ S/m}$; $\epsilon_r = 51.739$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-31-2020; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2510 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 7 Antenna 2A, Body SAR, Back side, Low.ch,
20 MHz Bandwidth, QPSK, 50 RB, 50 RB Offset**

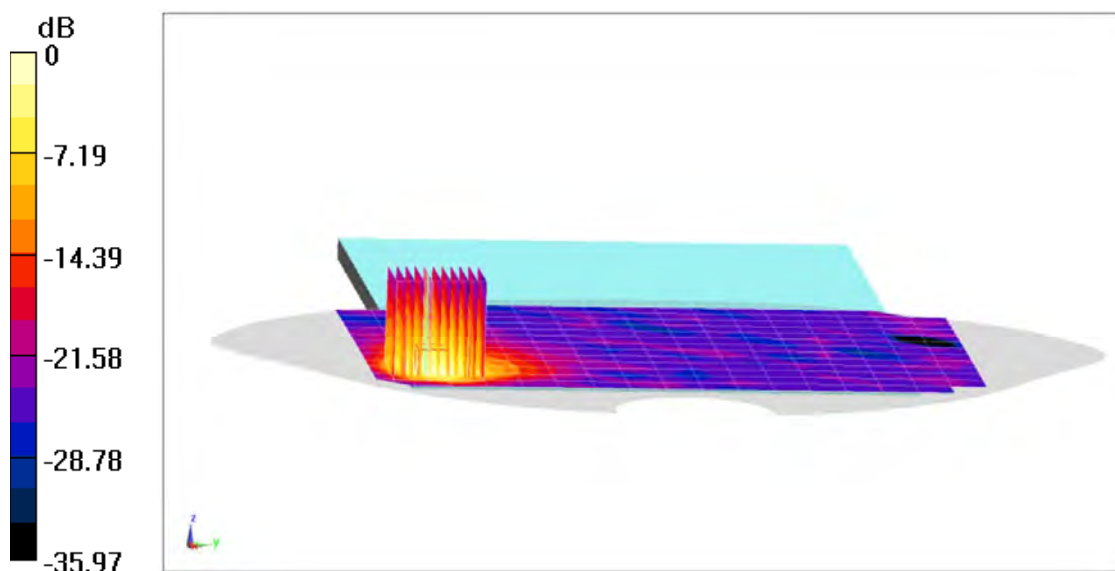
Area Scan (10x10x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 23.09 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.55 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.418 W/kg



0 dB = 2.41 W/kg = 3.82 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

Communication System: UID 0, LTE Band 41 (Class 3); Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2506 \text{ MHz}$; $\sigma = 2.1 \text{ S/m}$; $\epsilon_r = 51.654$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-05-2020; Ambient Temp: 20.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2506 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 41 Antenna 2A, Body SAR, Back side, Low.ch,
20 MHz Bandwidth, QPSK, 100 RB, 0 RB Offset**

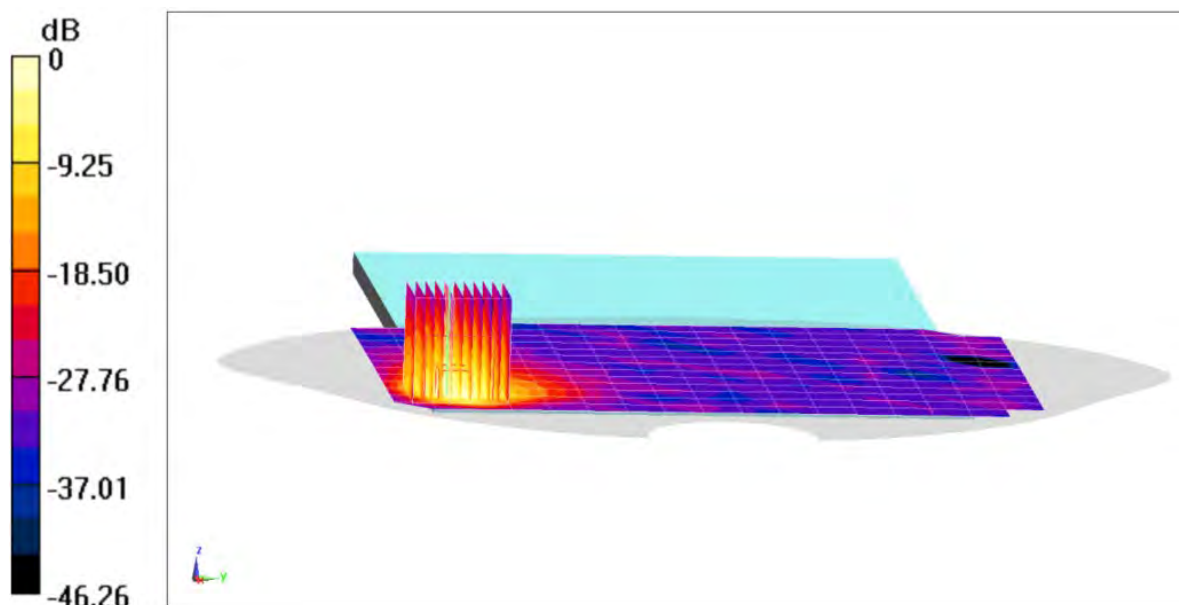
Area Scan (10x10x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (13x13x8)/Cube 0: Measurement grid: dx=2.5mm, dy=2.5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 24.91 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 4.82 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.436 W/kg



0 dB = 2.45 W/kg = 3.89 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1004Q8MW

Communication System: UID 0, LTE Band 48; Frequency: 3690 MHz; Duty Cycle: 1:1.58

Medium: 3500-3700 Body Medium parameters used (interpolated):

$f = 3690$ MHz; $\sigma = 3.614$ S/m; $\epsilon_r = 49.587$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-03-2020; Ambient Temp: 19.5°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7421; ConvF(6.57, 6.57, 6.57) @ 3690 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 48 Antenna 4, Body SAR, Back side, High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

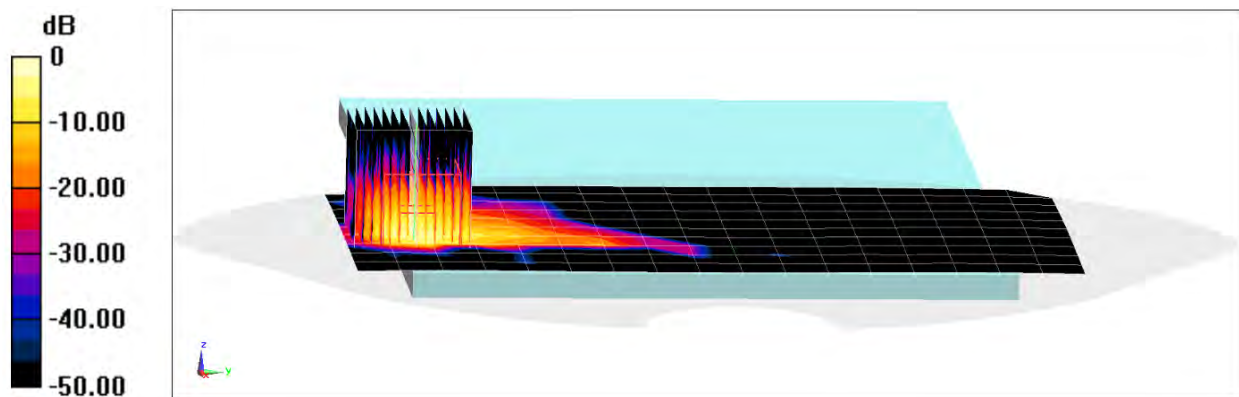
Area Scan (11x18x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (14x14x8)/Cube 0: Measurement grid: dx=2.5mm, dy=2.5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 16.66 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 5.55 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.320 W/kg



0 dB = 2.99 W/kg = 4.76 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD101EQ8MQ

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

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2437 \text{ MHz}$; $\sigma = 2.017 \text{ S/m}$; $\epsilon_r = 50.451$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-10-2020; Ambient Temp: 22.4°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7532; ConvF(7.51, 7.51, 7.51) @ 2437 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11b Antenna 1A Variant 1, 22 MHz Bandwidth,
Body SAR, Ch 6, 1 Mbps, Back Side**

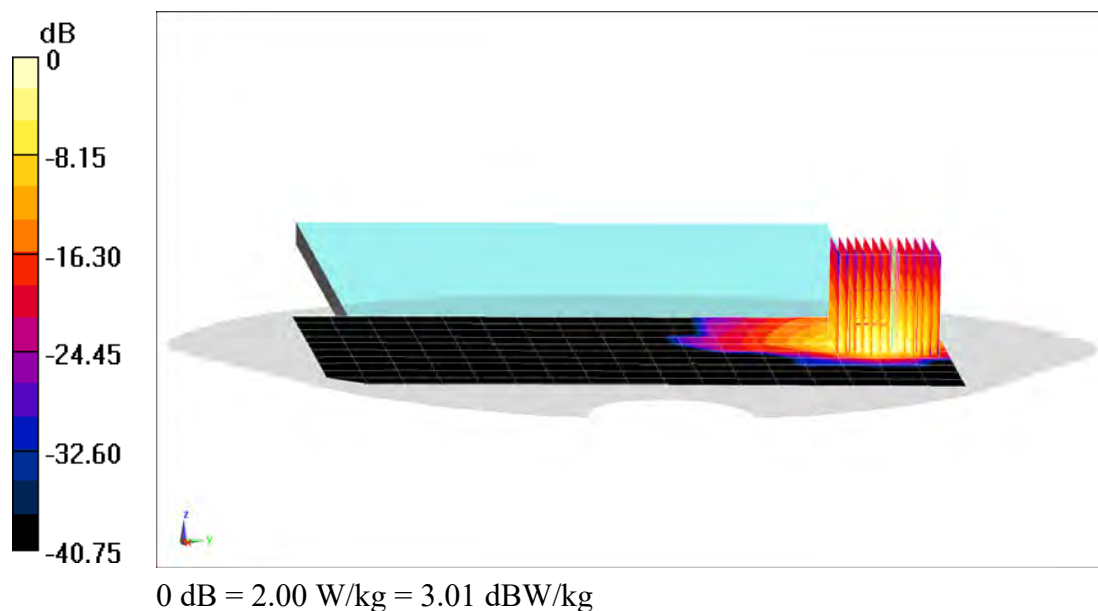
Area Scan (10x10x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (14x14x8)/Cube 0: Measurement grid: dx=2.4mm, dy=2.4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 18.18 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.80 W/kg

SAR(1 g) = 0.819 W/kg; SAR(10 g) = 0.362 W/kg



PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD101BQ8MQ

Communication System: UID 0, _IEEE 802.11ac; Frequency: 5610 MHz; Duty Cycle: 1:1

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

$f = 5610 \text{ MHz}$; $\sigma = 6.015 \text{ S/m}$; $\epsilon_r = 47.239$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-18-2020; Ambient Temp: 21.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(4.1, 4.1, 4.1) @ 5610 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11ac Antenna 2B Variant 1, U-NII-2C, 80 MHz Bandwidth,
Body SAR, Ch 122, 29.3 Mbps, Back Side**

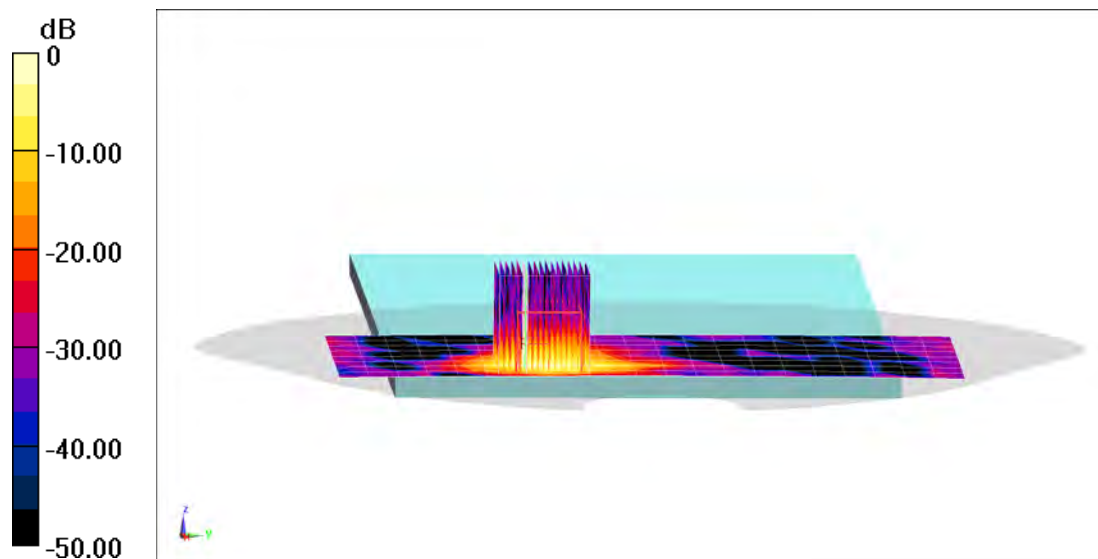
Area Scan (9x22x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (17x17x8)/Cube 0: Measurement grid: dx=1.9mm, dy=1.9mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 11.99 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 7.85 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.326 W/kg



0 dB = 3.53 W/kg = 5.48 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD101BQ8MQ

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.300

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2480 \text{ MHz}$; $\sigma = 2.06 \text{ S/m}$; $\epsilon_r = 51.491$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-13-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2480 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

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

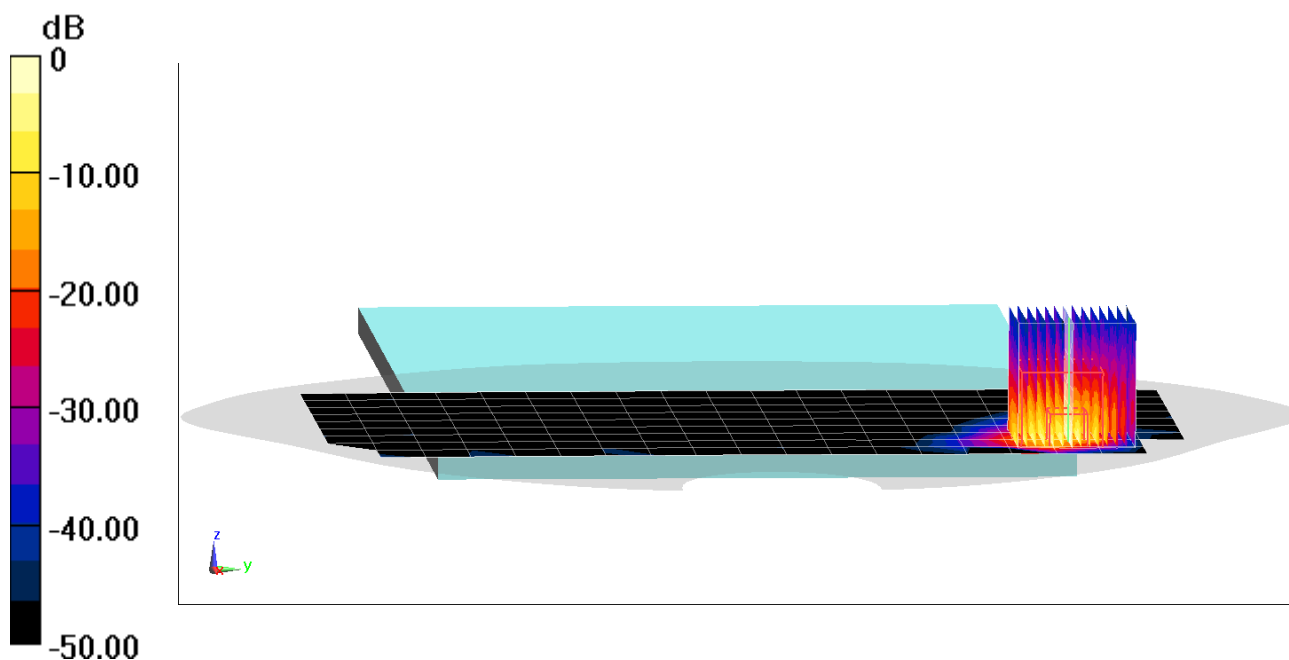
Area Scan (11x11x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (23x17x8)/Cube 0: Measurement grid: $dx=1.8\text{mm}$, $dy=1.8\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 19.78 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 5.75 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.457 W/kg



APPENDIX B: SYSTEM VERIFICATION

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1097

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

Medium: 750 Body Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 0.973 \text{ S/m}$; $\epsilon_r = 54.287$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-29-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 750 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

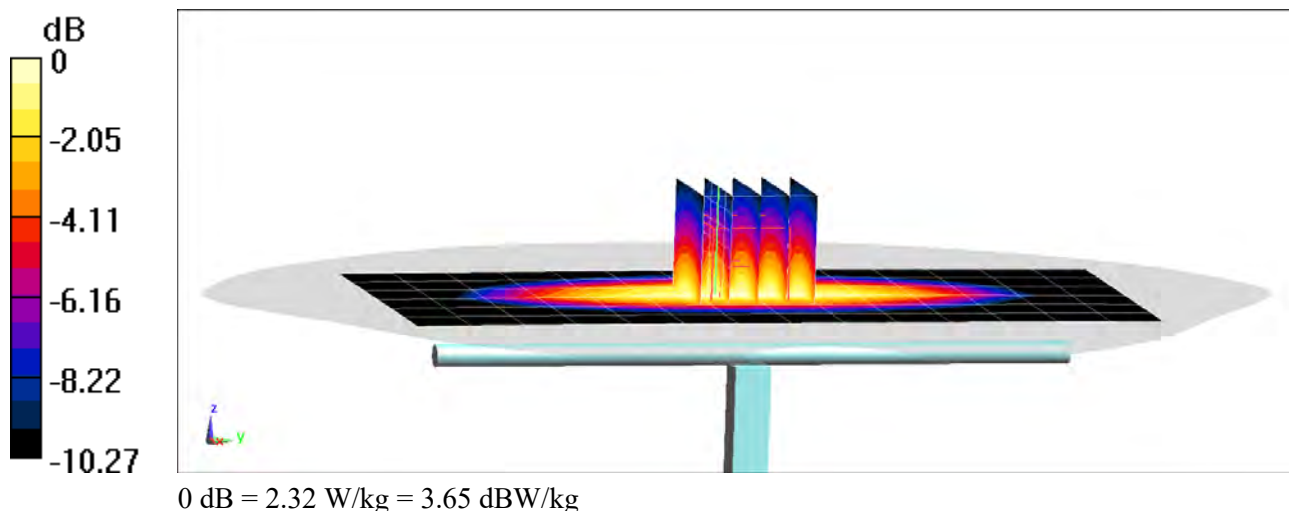
Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 2.64 W/kg

SAR(1 g) = 1.73 W/kg; SAR(10 g) = 1.15 W/kg

Deviation(1 g) = 1.05%



PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1097

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

Medium: 750 Body Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 0.974 \text{ S/m}$; $\epsilon_r = 53.349$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-31-2020; Ambient Temp: 22.1°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 750 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

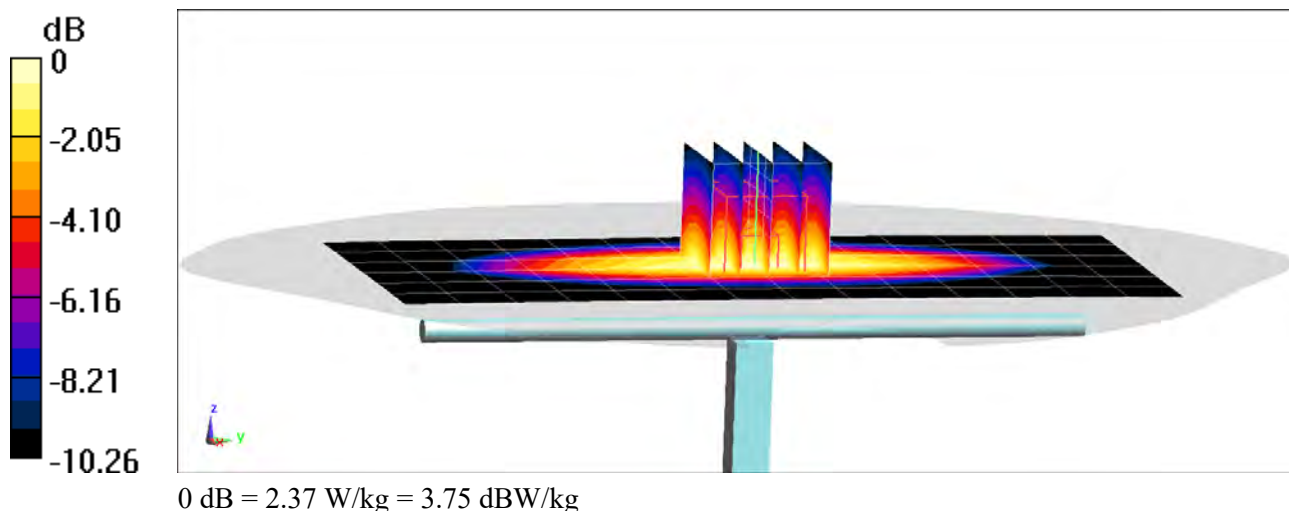
Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 1.77 W/kg; SAR(10 g) = 1.17 W/kg

Deviation(1 g) = 3.39%



PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d180

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

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.991 \text{ S/m}$; $\epsilon_r = 53.581$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3837; ConvF(9.37, 9.37, 9.37) @ 835 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

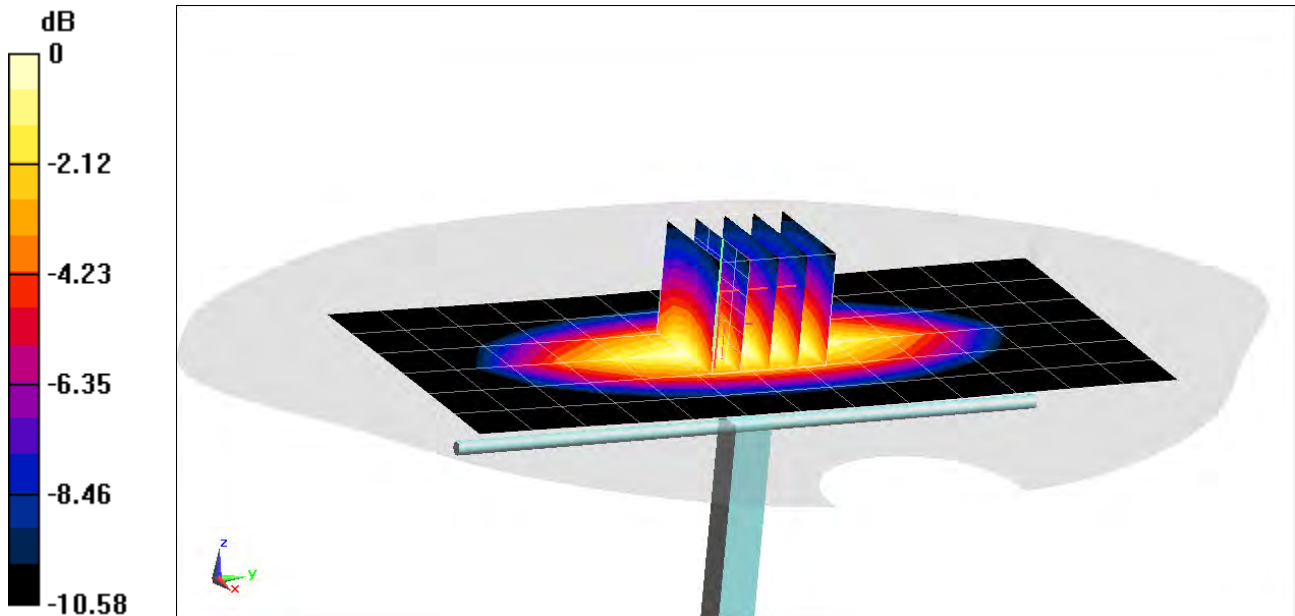
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.34 W/kg

Deviation(1 g) = 6.36%



0 dB = 2.76 W/kg = 4.41 dBW/kg

PCTEST

DUT: Dipole 850 MHz; Type: D850V2; Serial: 1010

Communication System: UID 0, CW; Frequency: 850 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 850 \text{ MHz}$; $\sigma = 0.994 \text{ S/m}$; $\epsilon_r = 52.773$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 850 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

850 MHz System Verification at 23.0 dBm (200 mW)

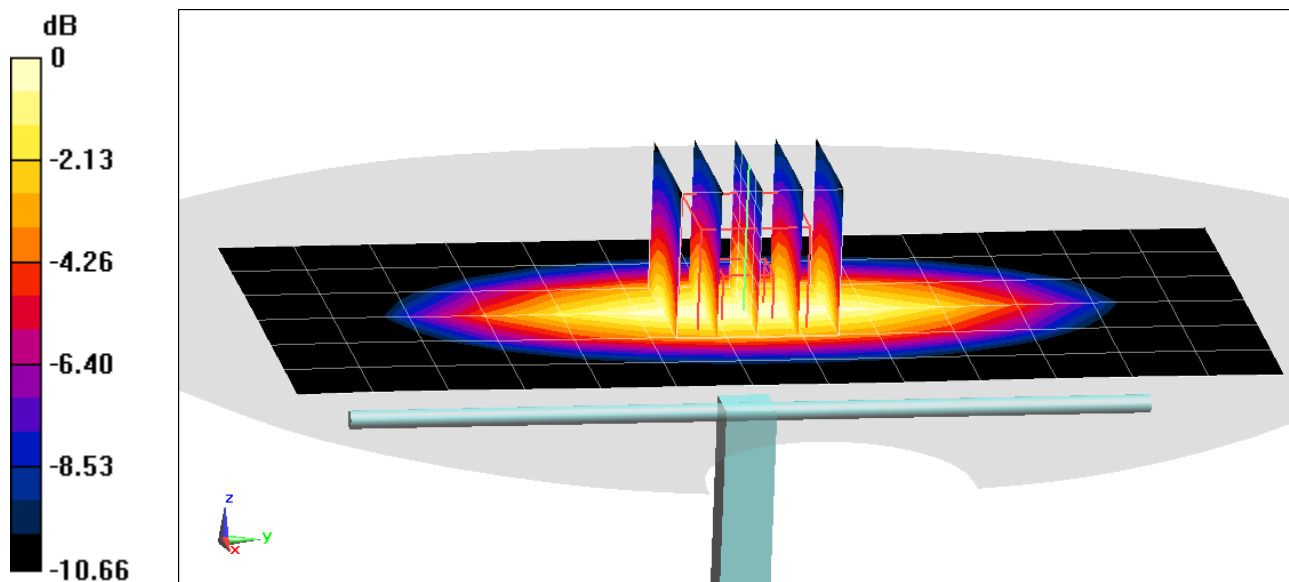
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.39 W/kg

Deviation(1 g) = 3.92%



0 dB = 2.83 W/kg = 4.52 dBW/kg

PCTEST

DUT: Dipole 850 MHz; Type: D850V2; Serial: 1010

Communication System: UID 0, CW; Frequency: 850 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 850 \text{ MHz}$; $\sigma = 0.999 \text{ S/m}$; $\epsilon_r = 53.519$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-29-2020; Ambient Temp: 22.7°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 850 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

850 MHz System Verification at 23.0 dBm (200 mW)

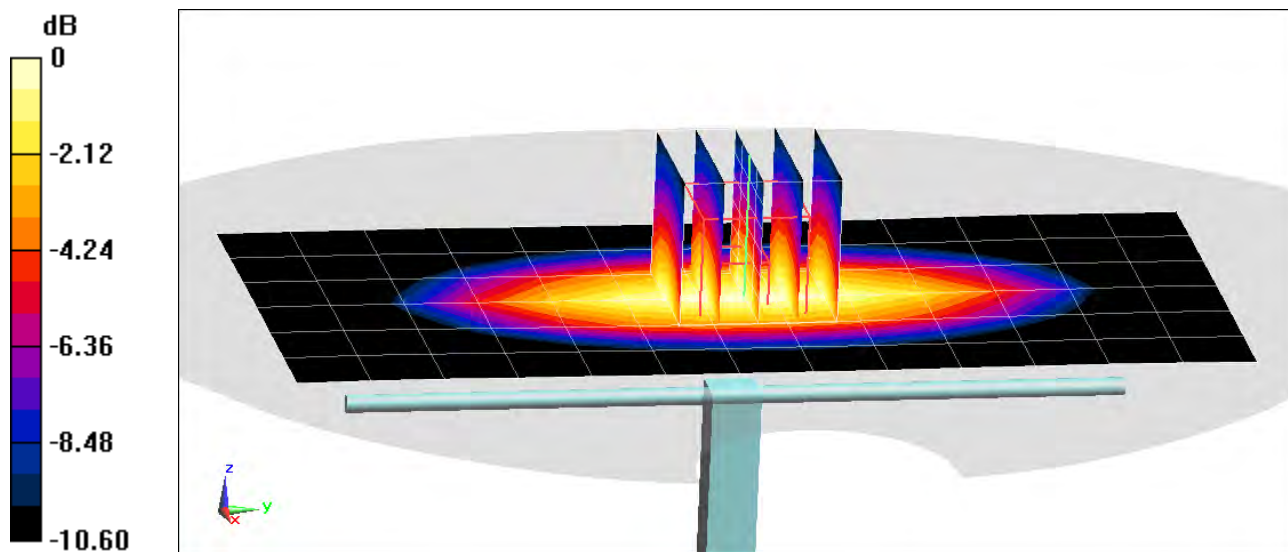
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.39 W/kg

Deviation(1 g) = 3.92%



PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1104

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

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.487 \text{ S/m}$; $\epsilon_r = 51.262$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-30-2020; Ambient Temp: 23.3°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1750 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

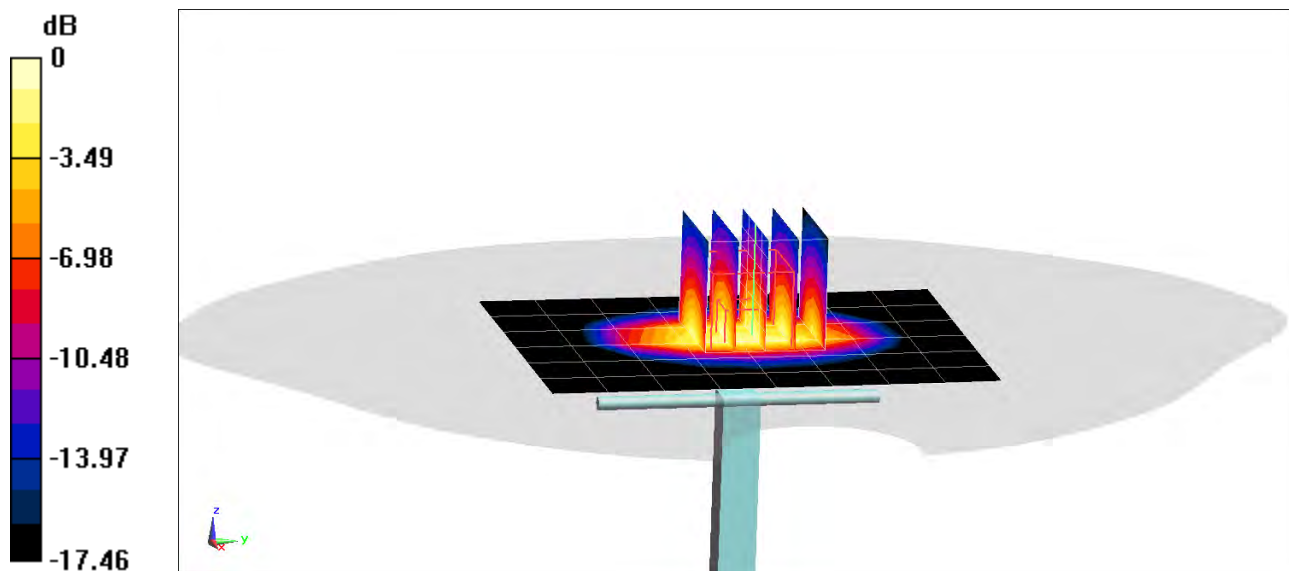
Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 7.05 W/kg

SAR(1 g) = 3.95 W/kg; SAR(10 g) = 2.09 W/kg

Deviation(1 g) = 7.92%



0 dB = 5.93 W/kg = 7.73 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1104

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

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.5 \text{ S/m}$; $\epsilon_r = 51.199$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-03-2020; Ambient Temp: 22.9°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1750 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

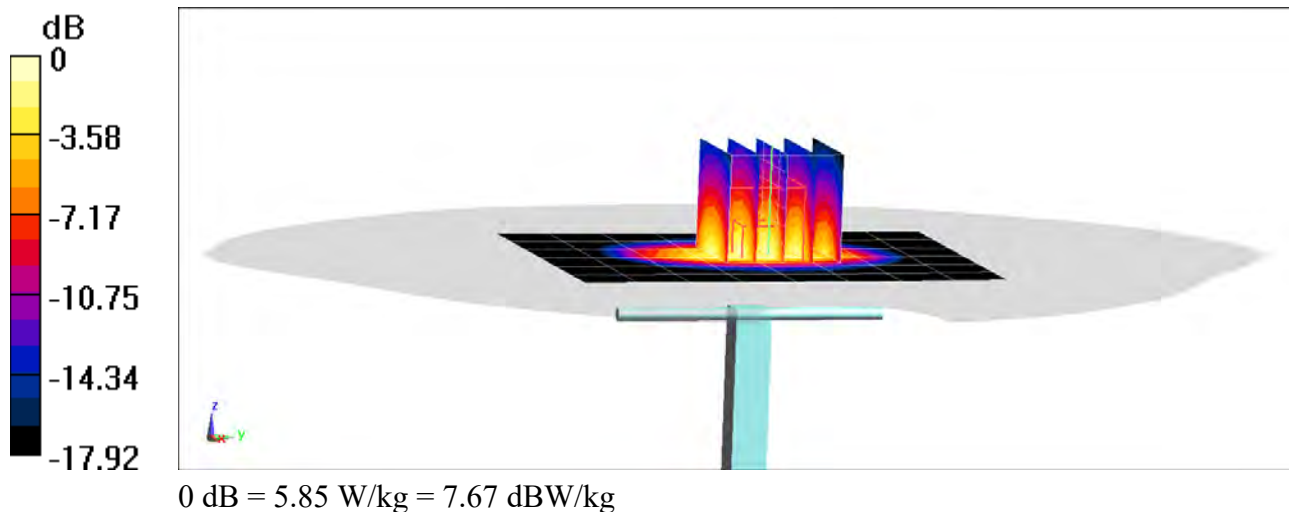
Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 7.01 W/kg

SAR(1 g) = 3.9 W/kg; SAR(10 g) = 2.06 W/kg

Deviation(1 g) = 6.56%



PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1092

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

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.498 \text{ S/m}$; $\epsilon_r = 51.555$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-13-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1750 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

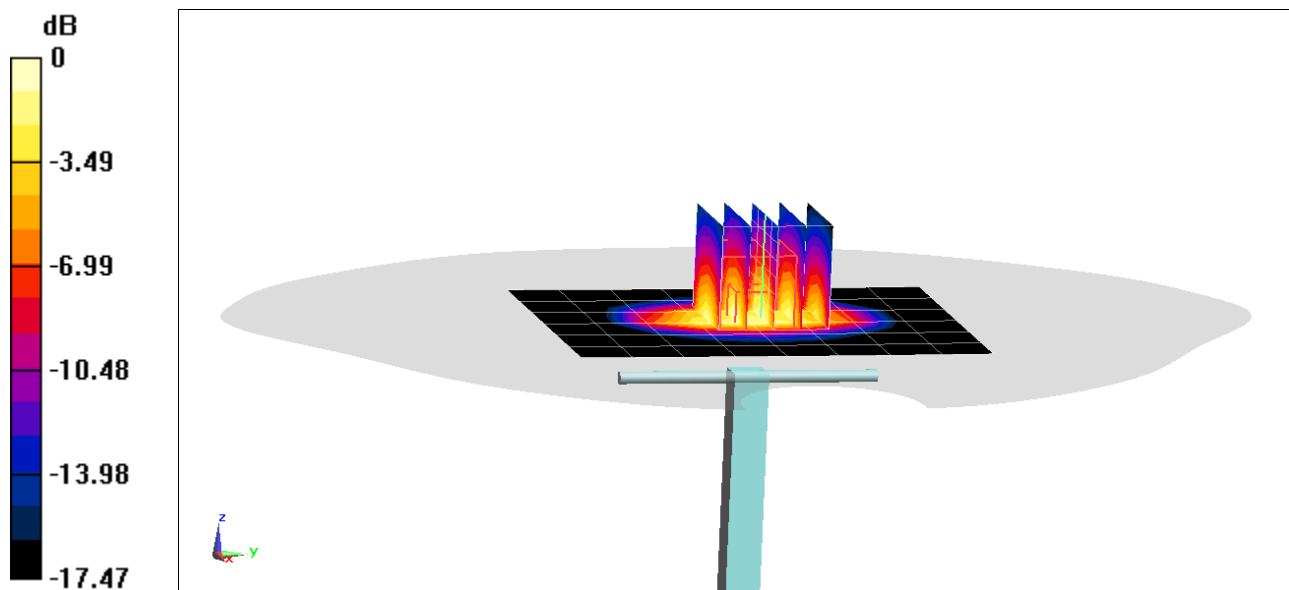
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 6.85 W/kg

SAR(1 g) = 3.83 W/kg; SAR(10 g) = 2.04 W/kg

Deviation(1 g) = 5.22%



0 dB = 5.73 W/kg = 7.58 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d181

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

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900$ MHz; $\sigma = 1.585$ S/m; $\epsilon_r = 51.603$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-28-2020; Ambient Temp: 22.1°C; Tissue Temp: 23.5°C

Probe: EX3DV4 - SN7490; ConvF(8.22, 8.22, 8.22) @ 1900 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0 SUB; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

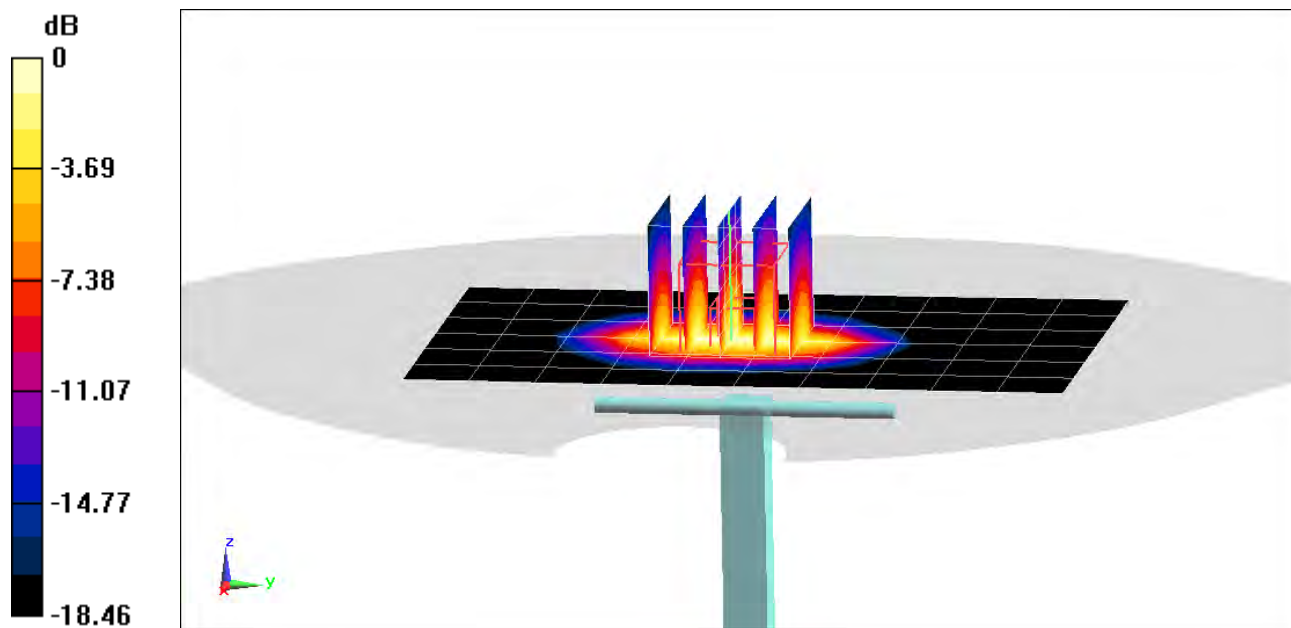
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 7.16 W/kg

SAR(1 g) = 3.93 W/kg; SAR(10 g) = 2.01 W/kg

Deviation(1 g) = -0.51%



PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d181

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

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.584 \text{ S/m}$; $\epsilon_r = 51.807$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-07-2020; Ambient Temp: 22.5°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN7490; ConvF(8.22, 8.22, 8.22) @ 1900 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0 SUB; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

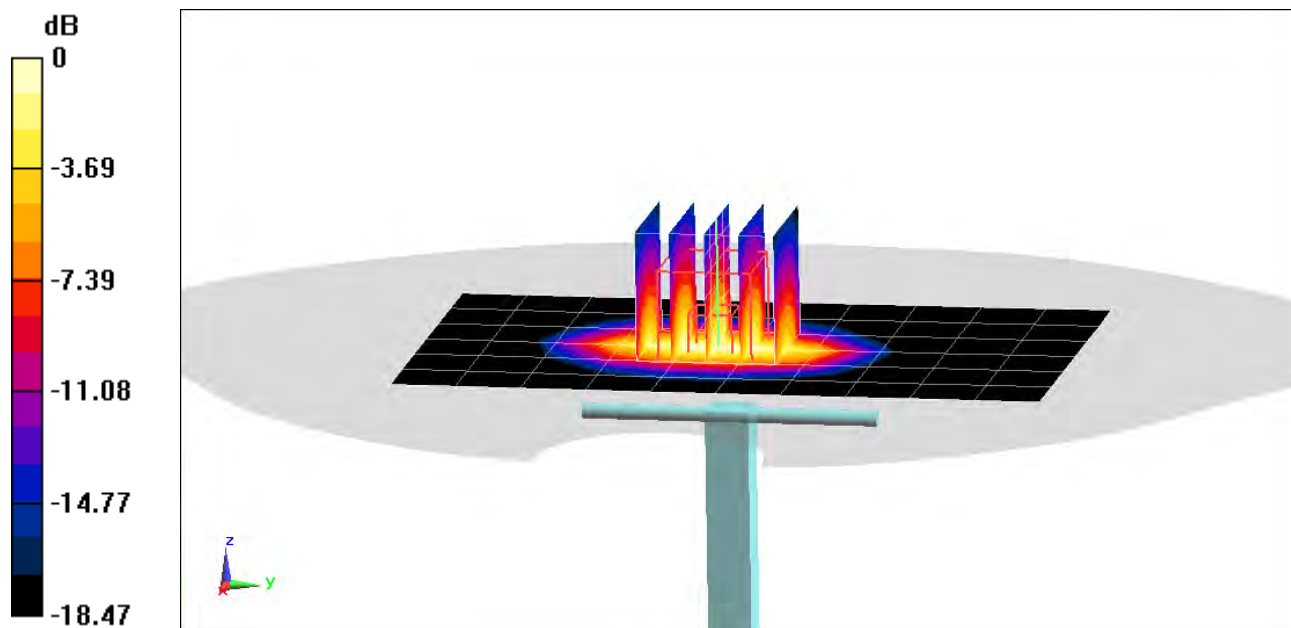
Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 7.02 W/kg

SAR(1 g) = 3.88 W/kg; SAR(10 g) = 2.02 W/kg

Deviation(1 g) = -1.77%



0 dB = 5.99 W/kg = 7.77 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d030

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

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.529 \text{ S/m}$; $\epsilon_r = 51.776$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-09-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN3837; ConvF(7.68, 7.68, 7.68) @ 1900 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

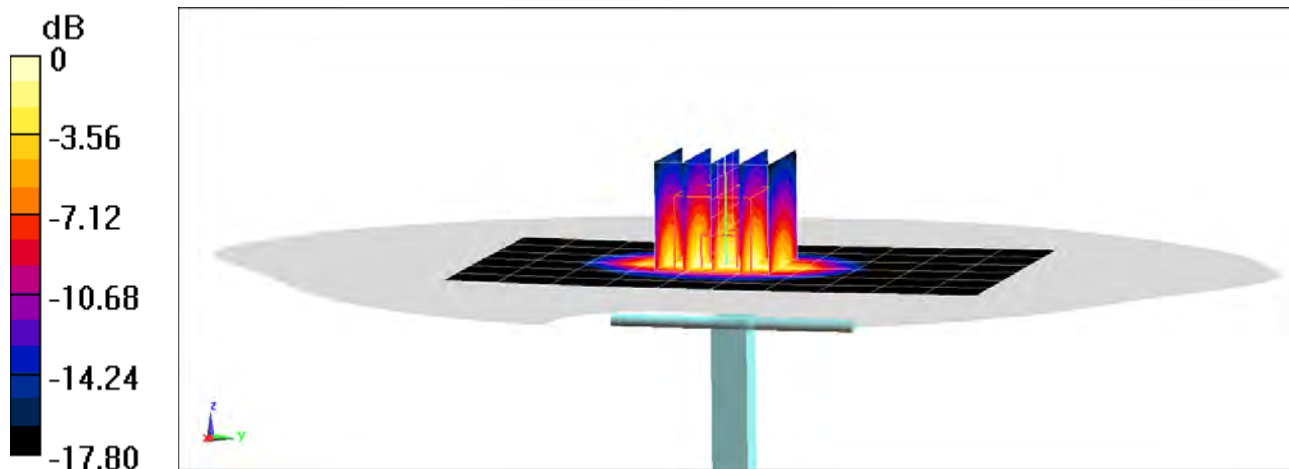
Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 7.89 W/kg

SAR(1 g) = 4.29 W/kg; SAR(10 g) = 2.21 W/kg

Deviation(1 g) = 7.52%



0 dB = 6.69 W/kg = 8.25 dBW/kg

PCTEST

DUT: Dipole 2300 MHz; Type: D2300V3; Serial: 1038

Communication System: UID 0, CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: 2300 Body Medium parameters used:

$f = 2300 \text{ MHz}$; $\sigma = 1.839 \text{ S/m}$; $\epsilon_r = 52.314$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7416; ConvF(7.48, 7.48, 7.48) @ 2300 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2300 MHz System Verification at 20.0 dBm (100 mW)

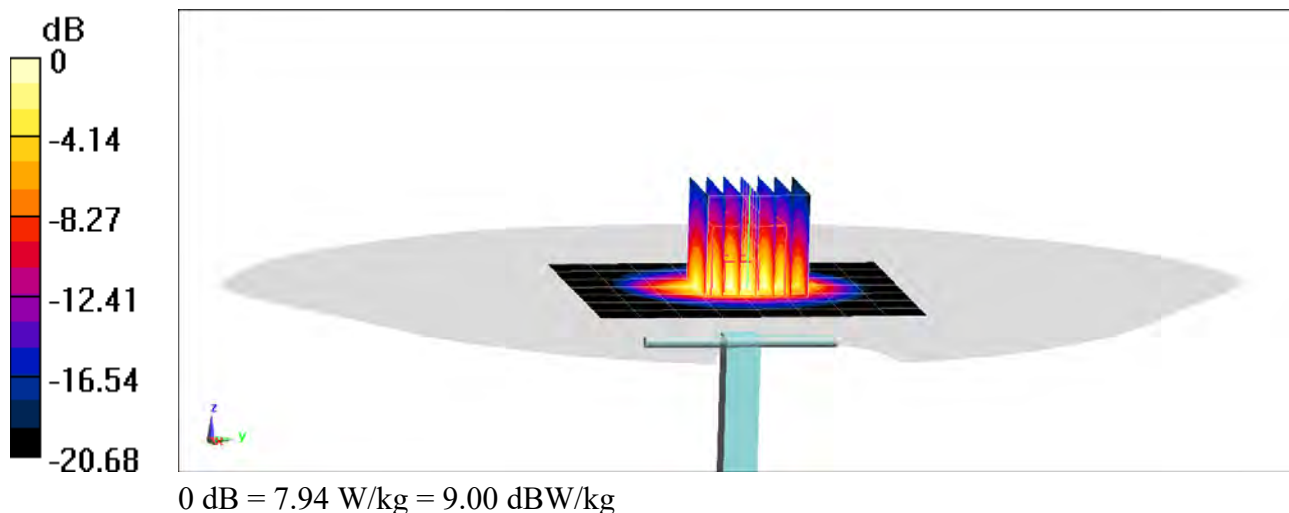
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 9.67 W/kg

SAR(1 g) = 4.97 W/kg; SAR(10 g) = 2.37 W/kg

Deviation(1 g) = 6.42%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.021 \text{ S/m}$; $\epsilon_r = 51.976$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-31-2020; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2450 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

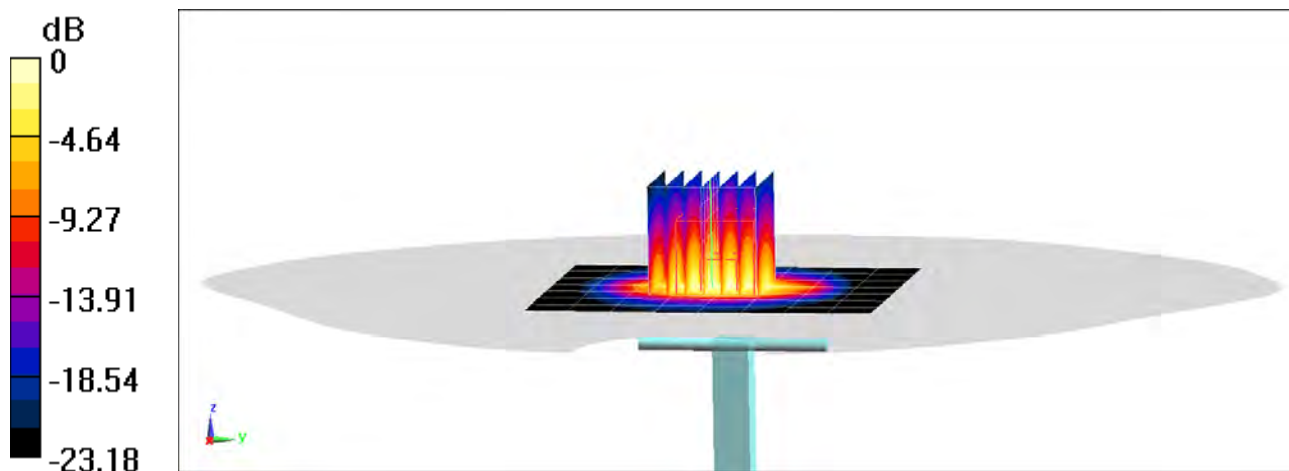
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 5.01 W/kg; SAR(10 g) = 2.27 W/kg

Deviation(1 g) = -1.38%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 750

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.018 \text{ S/m}$; $\epsilon_r = 51.87$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-05-2020; Ambient Temp: 20.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2450 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

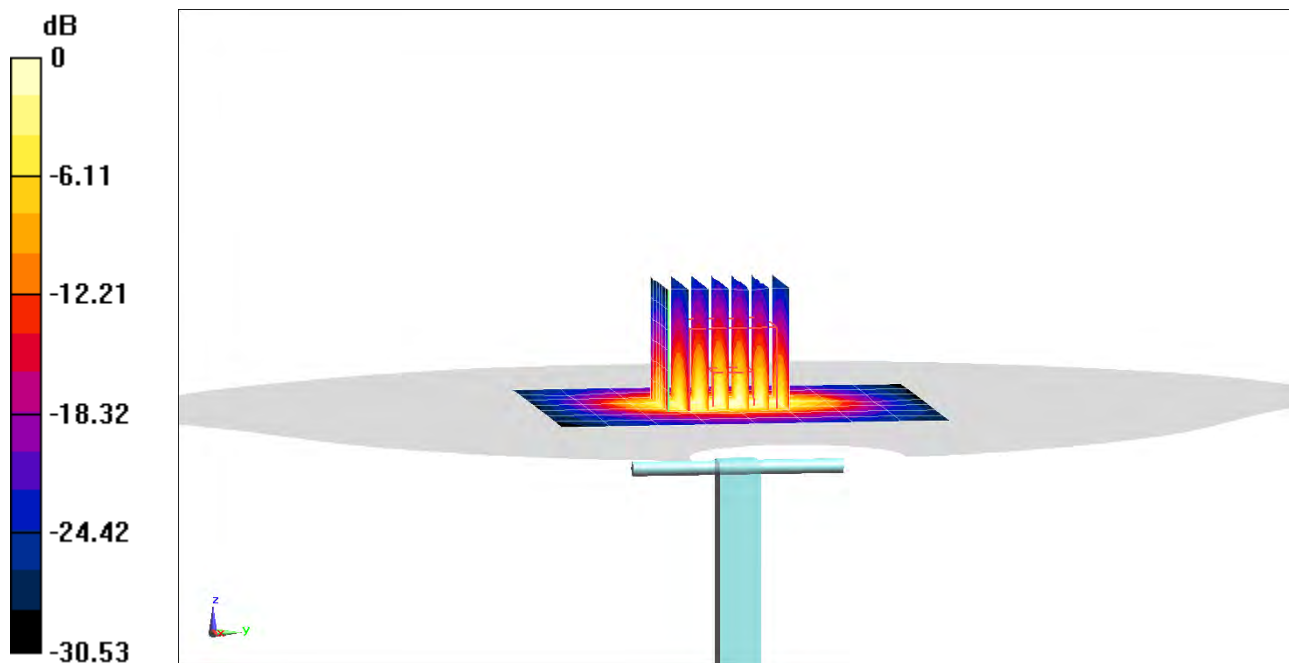
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 4.93 W/kg; SAR(10 g) = 2.24 W/kg

Deviation(1 g) = -3.33%



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

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 945

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.029 \text{ S/m}$; $\epsilon_r = 50.436$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-10-2020; Ambient Temp: 22.4°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7532; ConvF(7.51, 7.51, 7.51) @ 2450 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

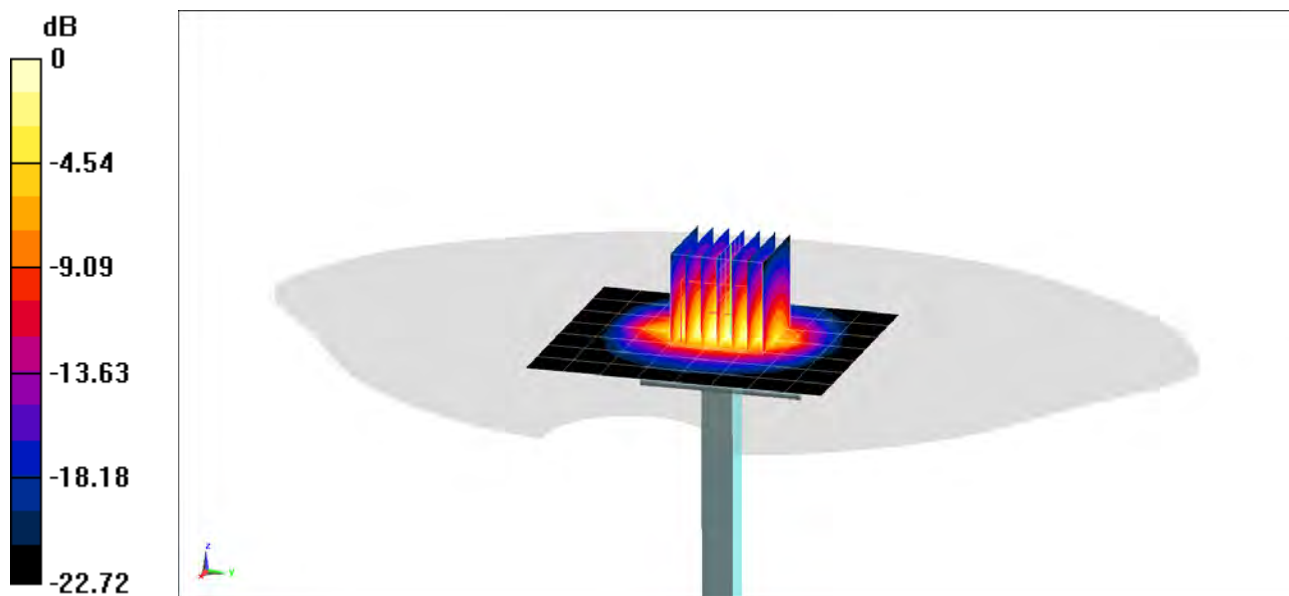
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 5.17 W/kg; SAR(10 g) = 2.37 W/kg

Deviation(1 g) = 4.66%



0 dB = 8.60 W/kg = 9.34 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 750

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.014 \text{ S/m}$; $\epsilon_r = 51.611$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-13-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2450 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

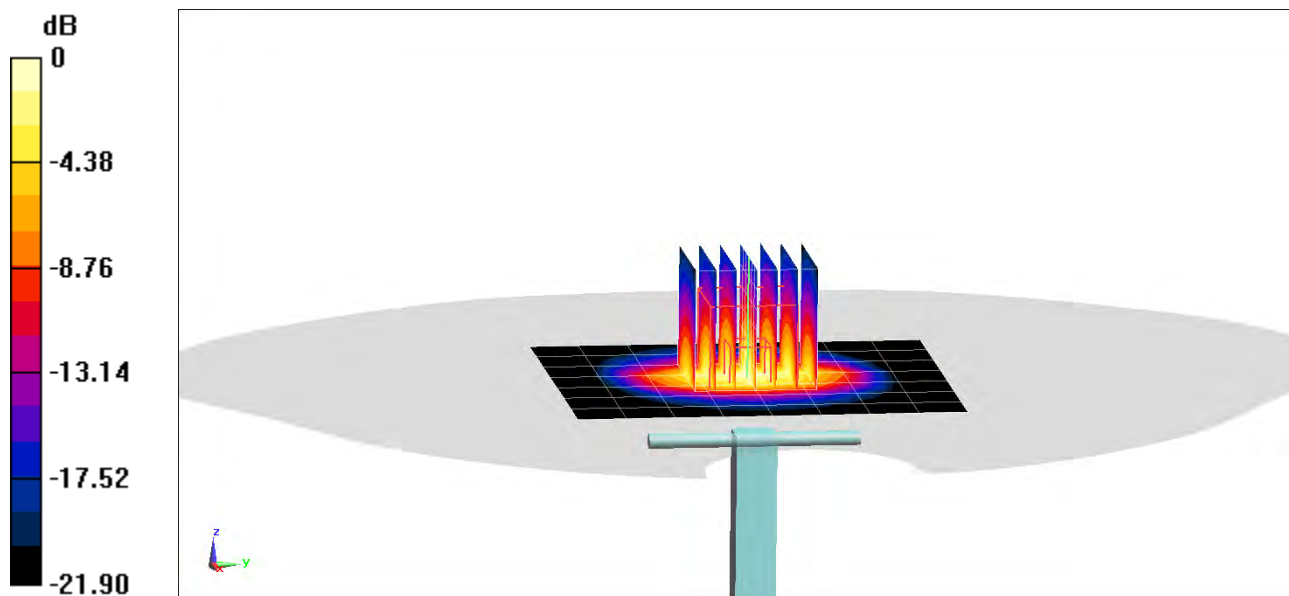
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 5.09 W/kg; SAR(10 g) = 2.33 W/kg

Deviation(1 g) = -0.20%



0 dB = 8.56 W/kg = 9.32 dBW/kg

PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1069

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

Medium: 2450 Body Medium parameters used:

$f = 2600 \text{ MHz}$; $\sigma = 2.238 \text{ S/m}$; $\epsilon_r = 51.373$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-31-2020; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7416; ConvF(7.23, 7.23, 7.23) @ 2600 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

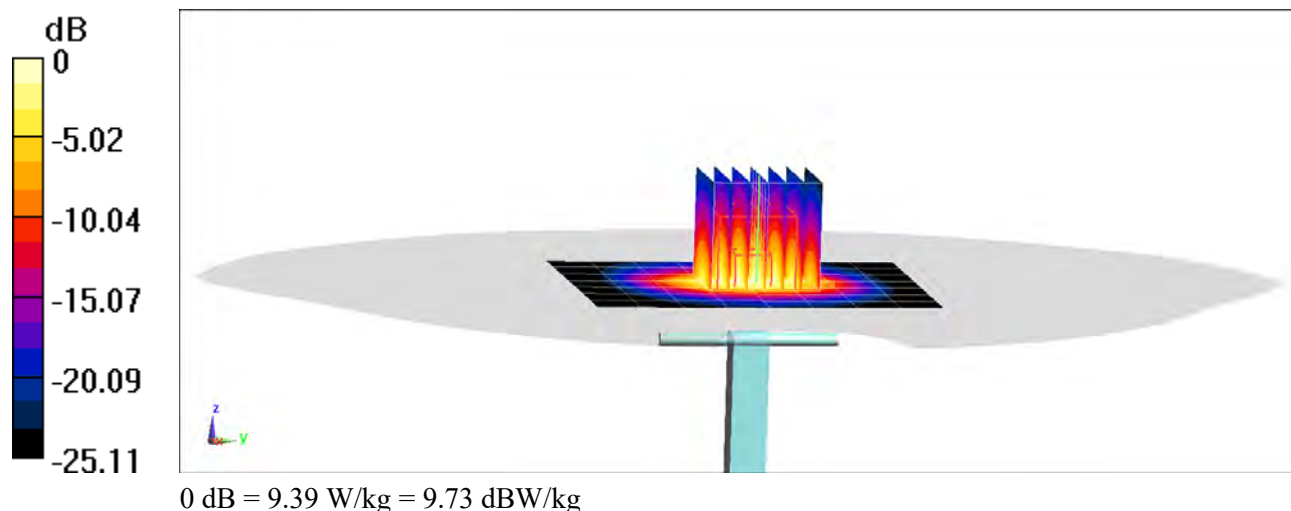
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.38 W/kg; SAR(10 g) = 2.33 W/kg

Deviation(1 g) = -2.71%



PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1042

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

Medium: 2450 Body Medium parameters used:

$f = 2600$ MHz; $\sigma = 2.236$ S/m; $\epsilon_r = 51.284$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-05-2020; Ambient Temp: 20.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7416; ConvF(7.23, 7.23, 7.23) @ 2600 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

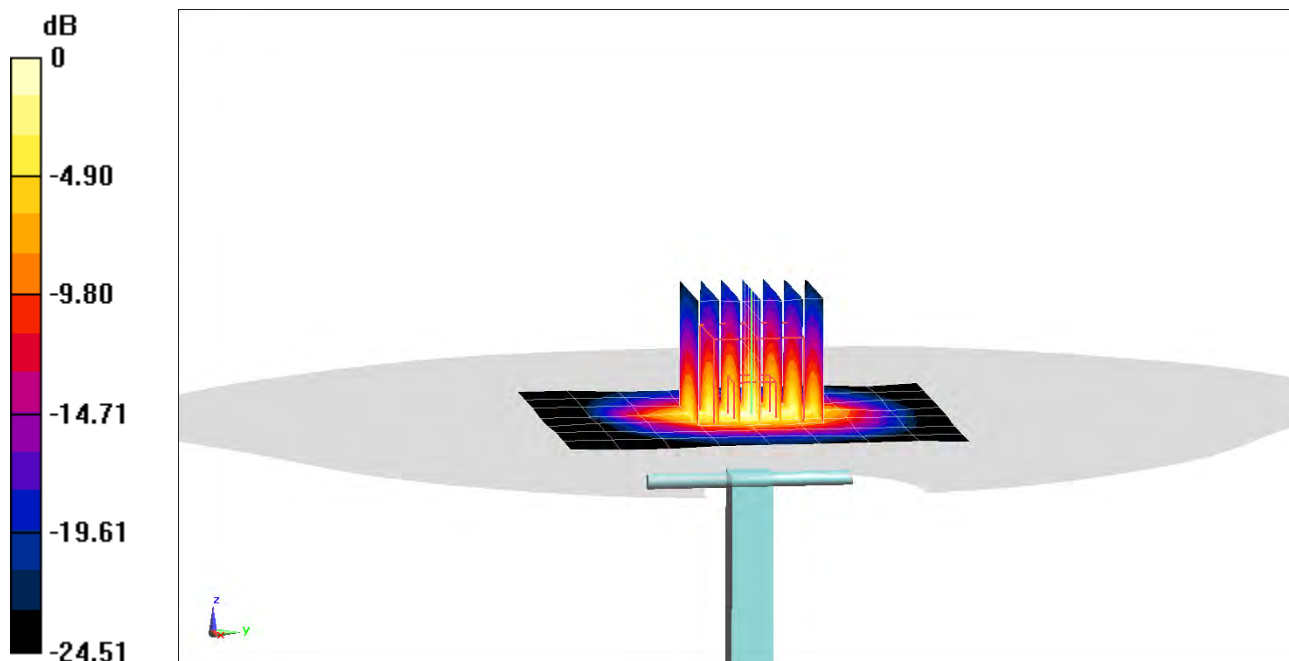
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 11.9 W/kg

SAR(1 g) = 5.35 W/kg; SAR(10 g) = 2.32 W/kg

Deviation(1 g) = -3.08%



0 dB = 9.41 W/kg = 9.74 dBW/kg

PCTEST

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: 1055

Communication System: UID 0, CW; Frequency: 3500 MHz; Duty Cycle: 1:1

Medium: 3500-3700 Body Medium parameters used:

$f = 3500$ MHz; $\sigma = 3.405$ S/m; $\epsilon_r = 49.874$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-03-2020; Ambient Temp: 19.5°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7421; ConvF(6.72, 6.72, 6.72) @ 3500 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

3500 MHz System Verification at 20.0 dBm (100 mW)

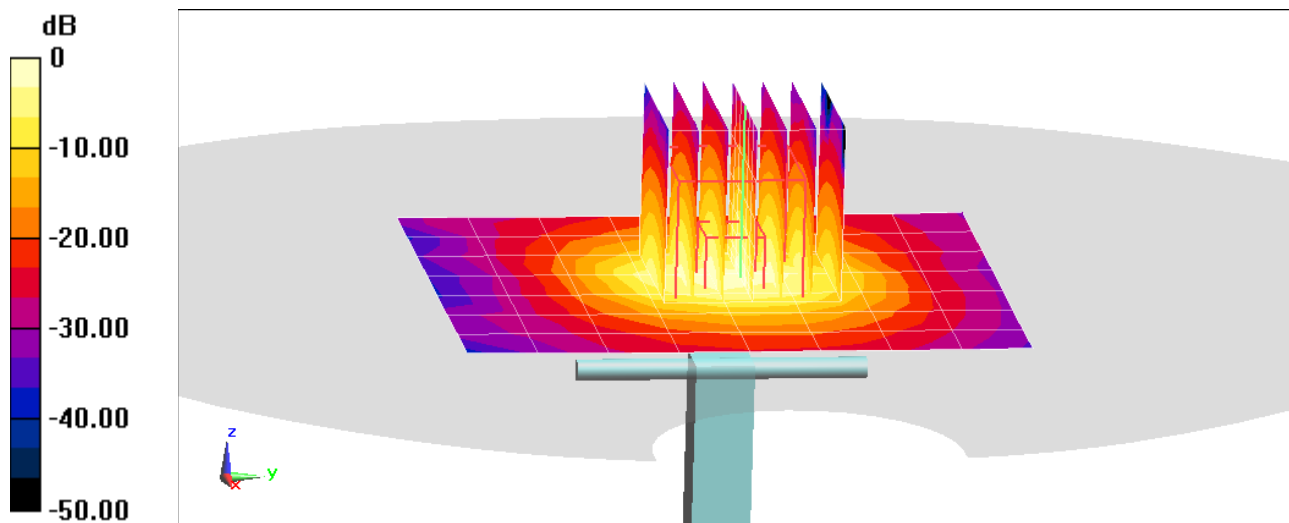
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 6.17 W/kg; SAR(10 g) = 2.27 W/kg

Deviation(1 g) = -5.08%



PCTEST

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: 1002

Communication System: UID 0, CW; Frequency: 3700 MHz; Duty Cycle: 1:1

Medium: 3500-3700 Body Medium parameters used (interpolated):

$f = 3700$ MHz; $\sigma = 3.624$ S/m; $\epsilon_r = 49.573$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-03-2020; Ambient Temp: 19.5°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7421; ConvF(6.57, 6.57, 6.57) @ 3700 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

3700 MHz System Verification at 20.0 dBm (100 mW)

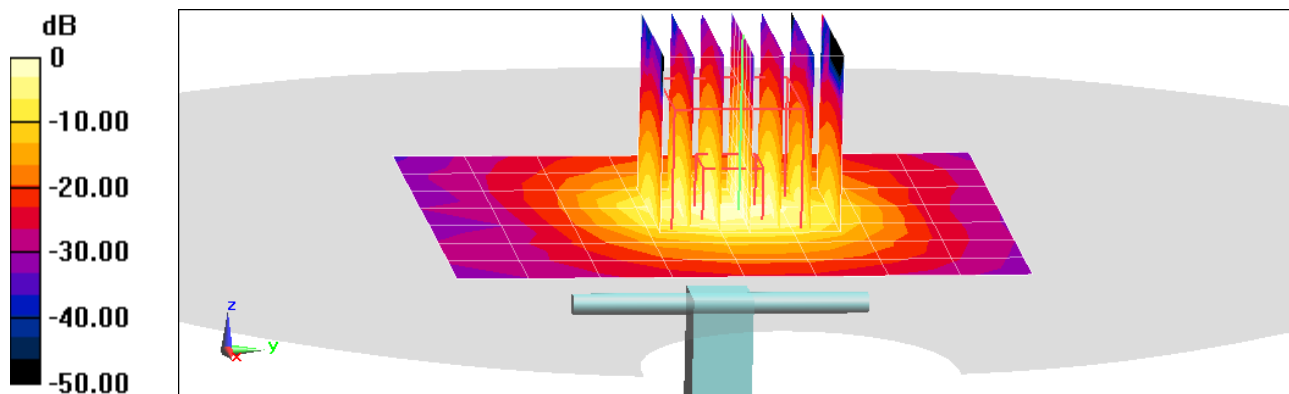
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 6.21 W/kg; SAR(10 g) = 2.19 W/kg

Deviation(1 g) = -4.02%



0 dB = 12.2 W/kg = 10.86 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

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

$f = 5250 \text{ MHz}$; $\sigma = 5.522 \text{ S/m}$; $\epsilon_r = 47.854$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-18-2020; Ambient Temp: 21.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(4.8, 4.8, 4.8) @ 5250 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

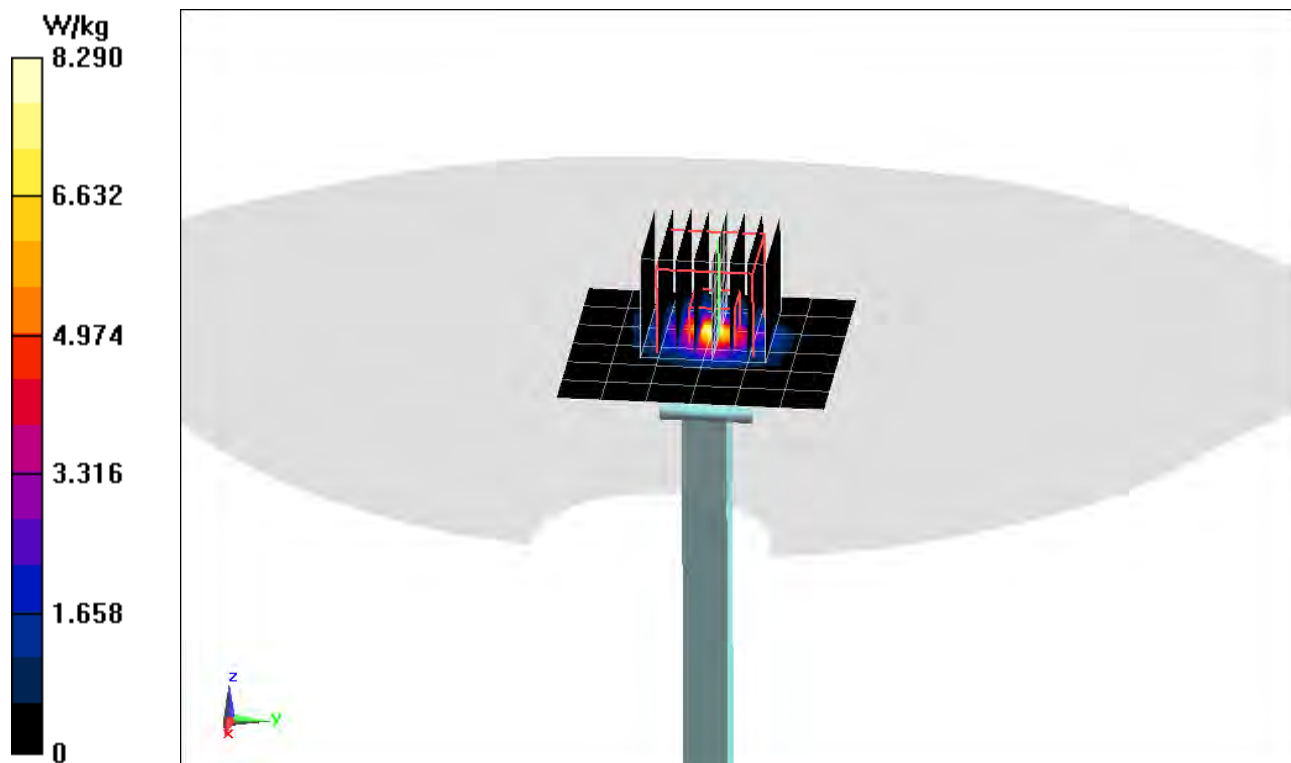
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Peak SAR (extrapolated) = 14.3 W/kg

SAR(1 g) = 3.48 W/kg; SAR(10 g) = 0.966 W/kg

Deviation(1 g) = -5.95%



PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

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

Medium: 5 GHz Body Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 6.003 \text{ S/m}$; $\epsilon_r = 47.257$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-18-2020; Ambient Temp: 21.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(4.1, 4.1, 4.1) @ 5600 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

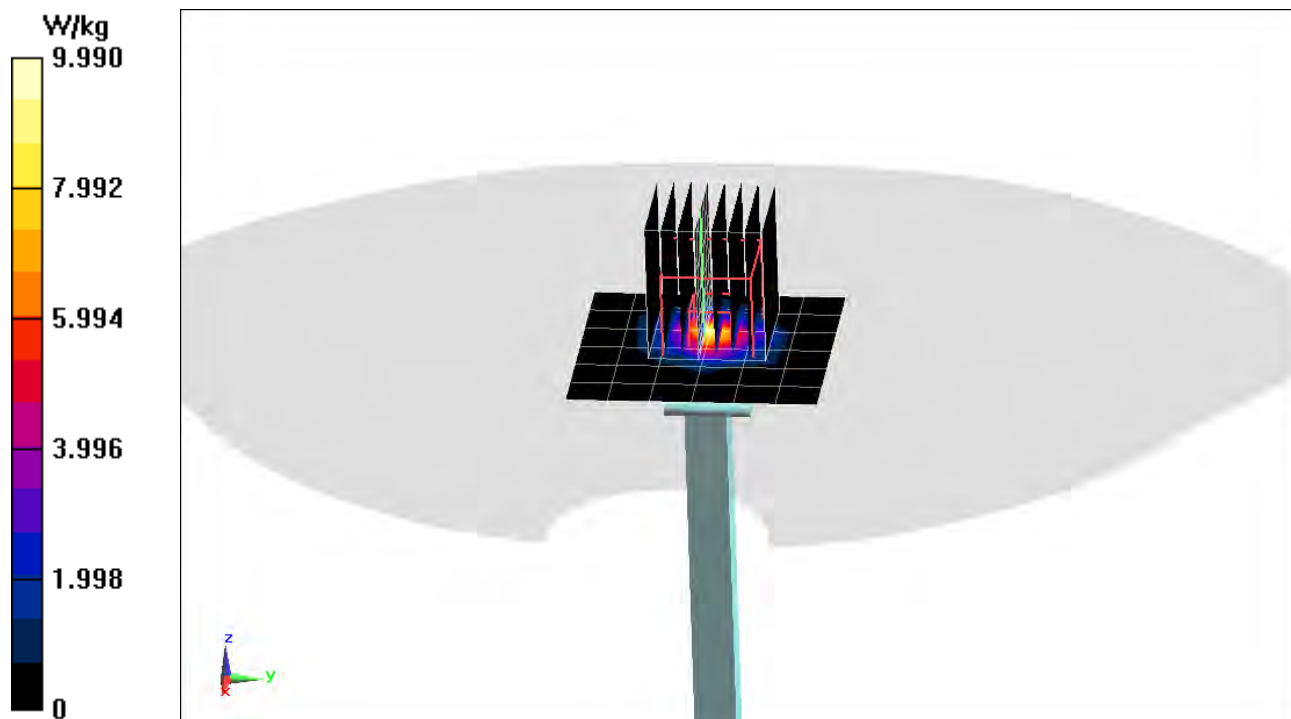
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 4 W/kg; SAR(10 g) = 1.12 W/kg

Deviation(1 g) = 3.09%



PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

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

$f = 5750 \text{ MHz}$; $\sigma = 6.202 \text{ S/m}$; $\epsilon_r = 46.984$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-18-2020; Ambient Temp: 21.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(4.28, 4.28, 4.28) @ 5750 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

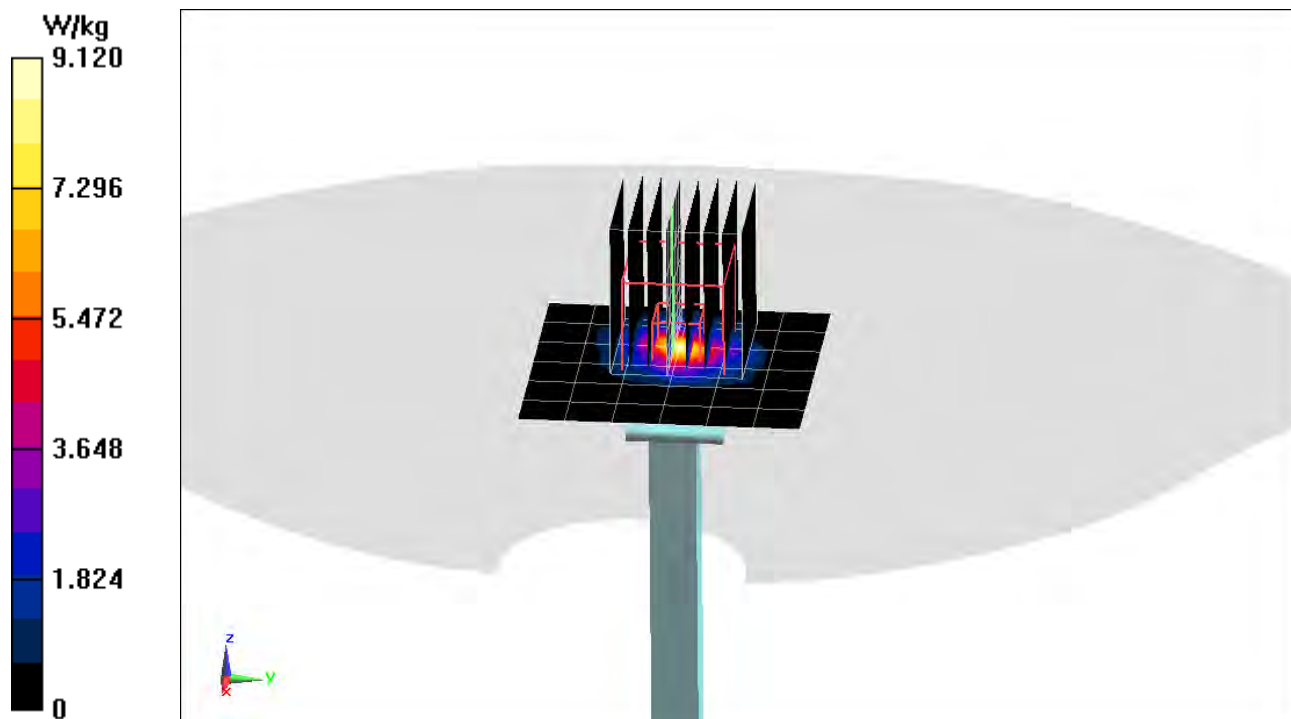
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 3.53 W/kg; SAR(10 g) = 0.974 W/kg

Deviation(1 g) = -5.49%



APPENDIX C: SAR TISSUE SPECIFICATIONS

FCC ID: BCGA2324	 PCTEST PCTEST Inc. 2021-11-11	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		APPENDIX C: Page 1 of 3

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ϵ' can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho' \cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

3 Composition / Information on ingredients

3.2 Mixtures

Description: Aqueous solution with surfactants and inhibitors

Declarable, or hazardous components:

CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-0000	Ethanedial STOT RE 2, H373; Acute Tox. 4, H302	>1.0-4.9%
CAS: 68608-26-4 EINECS: 271-781-5 Reg.nr.: 01-2119527859-22-0000	Sodium petroleum sulfonate Eye Irrit. 2, H319	< 2.9%
CAS: 107-41-5 EINECS: 203-489-0 Reg.nr.: 01-2119539582-35-0000	Hexylene Glycol / 2-Methyl-pentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.9%
CAS: 68920-66-1 NLP: 500-236-9 Reg.nr.: 01-2119489407-26-0000	Alkoxyated alcohol, > C₁₆ Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.0%

Additional information:

For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential.

The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure C-1

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

FCC ID: BCGA2324	 PCTEST Proudly made in the USA	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		APPENDIX C: Page 2 of 3

Measurement Certificate / Material Test

Item Name **Body Tissue Simulating Liquid (MBBL600-6000V6)**
 Product No. **SL AAM U16 BC (Batch: 181029-1)**
 Manufacturer **SPEAG**

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the KDB 865864 compliance standard.

Test Condition

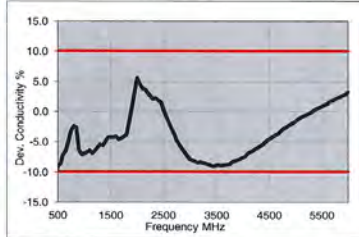
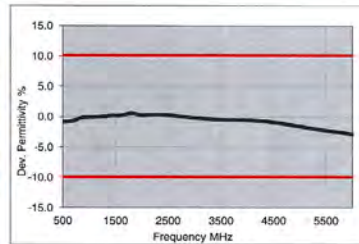
Ambient Condition **22°C ; 30% humidity**
 TSL Temperature **22°C**
 Test Date **30-Oct-18**
 Operator **CL**

Additional Information

TSL Density
 TSL Heat-capacity

Results

f [MHz]	Measured			Target		Diff. to Target [%]	
	ϵ'	ϵ''	sigma	eps	sigma	$\Delta\epsilon'$	$\Delta\epsilon''$
800	55.1	21.3	0.95	55.3	0.97	-0.4	-2.1
825	55.1	20.8	0.96	55.2	0.98	-0.3	-2.0
835	55.1	20.6	0.96	55.1	0.99	0.0	-2.5
850	55.1	20.4	0.96	55.2	0.99	-0.1	-3.0
900	55.0	19.7	0.98	55.0	1.05	0.0	-6.7
1400	54.2	15.6	1.22	54.1	1.28	0.2	-4.7
1450	54.1	15.4	1.24	54.0	1.30	0.2	-4.6
1500	54.1	15.3	1.27	53.9	1.33	0.3	-4.5
1550	54.0	15.1	1.30	53.9	1.36	0.2	-4.4
1600	53.9	15.0	1.33	53.8	1.39	0.2	-4.3
1625	53.9	14.9	1.35	53.8	1.41	0.3	-4.3
1640	53.9	14.9	1.36	53.7	1.42	0.3	-4.2
1650	53.8	14.9	1.38	53.7	1.43	0.2	-4.9
1700	53.8	14.8	1.40	53.6	1.46	0.4	-4.1
1750	53.7	14.7	1.43	53.4	1.49	0.5	-4.0
1800	53.7	14.6	1.46	53.3	1.52	0.6	-3.9
1810	53.7	14.6	1.47	53.3	1.52	0.6	-3.3
1825	53.7	14.6	1.48	53.3	1.52	0.6	-2.6
1850	53.6	14.5	1.50	53.3	1.52	0.6	-1.3
1900	53.5	14.5	1.53	53.3	1.52	0.4	0.7
1950	53.5	14.5	1.57	53.3	1.52	0.4	3.3
2000	53.4	14.4	1.60	53.3	1.52	0.2	5.3
2050	53.4	14.4	1.64	53.2	1.57	0.3	4.5
2100	53.3	14.4	1.68	53.2	1.62	0.2	3.7
2150	53.3	14.4	1.72	53.1	1.66	0.4	3.6
2200	53.2	14.4	1.76	53.0	1.71	0.3	2.9
2250	53.1	14.4	1.81	53.0	1.76	0.2	2.8
2300	53.1	14.4	1.85	52.9	1.81	0.4	2.2
2350	53.0	14.5	1.89	52.8	1.85	0.3	2.2
2400	52.9	14.5	1.94	52.8	1.90	0.2	2.1
2450	52.9	14.5	1.98	52.7	1.95	0.4	1.5
2500	52.8	14.6	2.03	52.6	2.02	0.3	0.5
2550	52.7	14.6	2.07	52.6	2.09	0.2	-1.0
2600	52.6	14.7	2.12	52.5	2.16	0.2	-1.9



3500	51.1	15.5	3.02	51.3	3.31	-0.4	-8.8
3700	50.8	15.7	3.24	51.1	3.55	-0.5	-8.8
5200	48.1	18.2	5.27	49.0	5.30	-1.8	-0.6
5250	48.0	18.3	5.34	49.0	5.36	-1.9	-0.4
5300	47.9	18.4	5.41	48.9	5.42	-2.0	-0.2
5500	47.5	18.6	5.70	48.6	5.65	-2.2	0.8
5600	47.3	18.8	5.84	48.5	5.77	-2.3	1.3
5700	47.1	18.9	5.99	48.3	5.88	-2.5	1.8
5800	47.0	19.0	6.14	48.2	6.00	-2.6	2.3

TSL Dielectric Parameters

1

Figure C-2
 600 – 5800 MHz Body Tissue Equivalent Matter

FCC ID: BCGA2324		SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		APPENDIX C: Page 3 of 3

APPENDIX D: SAR SYSTEM VALIDATION

FCC ID: BCGA2324	 PCTEST PCTEST Inc. 2021-11-11	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device		Appendix D Page 1 of 2

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table D-1
SAR System Validation Summary – 1g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE CAL. POINT		COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
						(σ)	(εr)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM8	750	5/27/2020	7532	750	Body	0.942	52.946	PASS	PASS	PASS	N/A	N/A	N/A
AM6	835	3/10/2020	3837	835	Body	0.992	54.144	PASS	PASS	PASS	GMSK	PASS	N/A
AM4	835	4/22/2020	7421	835	Body	0.992	54.556	PASS	PASS	PASS	GMSK	PASS	N/A
AM1	1750	4/10/2020	7427	1750	Body	1.483	52.520	PASS	PASS	PASS	N/A	N/A	N/A
AM7	1900	5/13/2020	7490	1900	Body	1.582	50.652	PASS	PASS	PASS	GMSK	PASS	N/A
AM6	1900	3/4/2020	3837	1900	Body	1.583	51.670	PASS	PASS	PASS	GMSK	PASS	N/A
AM5	2300	7/6/2020	7416	2300	Body	1.793	52.460	PASS	PASS	PASS	N/A	N/A	N/A
AM5	2450	7/6/2020	7416	2450	Body	1.996	51.990	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM8	2450	5/27/2020	7532	2450	Body	2.019	50.220	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM5	2600	7/6/2020	7416	2600	Body	2.226	51.419	PASS	PASS	PASS	TDD	PASS	N/A
AM4	3500	5/11/2020	7421	3500	Body	3.389	50.340	PASS	PASS	PASS	TDD	PASS	N/A
AM4	3700	5/11/2020	7421	3700	Body	3.660	49.710	PASS	PASS	PASS	TDD	PASS	N/A
AM2	5250	12/3/2019	7420	5250	Body	5.500	48.380	PASS	PASS	PASS	OFDM	N/A	PASS
AM2	5600	12/3/2019	7420	5600	Body	5.974	47.790	PASS	PASS	PASS	OFDM	N/A	PASS
AM2	5750	12/3/2019	7420	5750	Body	6.180	47.556	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

FCC ID: BCGA2324	 SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 07/27/2020 – 08/18/2020	DUT Type: Tablet Device	Appendix D Page 2 of 2