

APPENDIX G: LTE DOWNLINK CA RF CONDUCTED POWERS

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.

Table G-1 – Example of Exclusion Table for SISO Configurations

Table 1: Channel Bandwidths (MHz)					Table 2: Channel Bandwidths (MHz)					Table 3: Channel Bandwidths (MHz)					Table 4: Channel Bandwidths (MHz)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Index	ACC	Supported Channel Bandwidth (MHz)		Restriction	Completely Covered by Measurement Superset	Index	ACC	Supported Channel Bandwidth (MHz)		Restriction	Completely Covered by Measurement Superset	Index	ACC	Supported Channel Bandwidth (MHz)		Restriction	Completely Covered by Measurement Superset																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CCC #1	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes	CCC #1	CA_2A-2A-4A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	CCC #1	CA_2A-2A-4A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	Yes	CCC #1	CA_2A-2A-4A-12A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 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G.1 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the 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 carrier aggregation configurations when the maximum 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. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in Section 8.2 and appendix J. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.

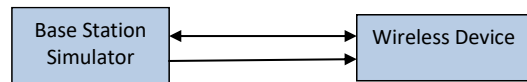


Figure G-1
DL CA Power Measurement Setup

FCC ID: BCGA2926	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Tablet Device		APPENDIX G: Page 2 of 12

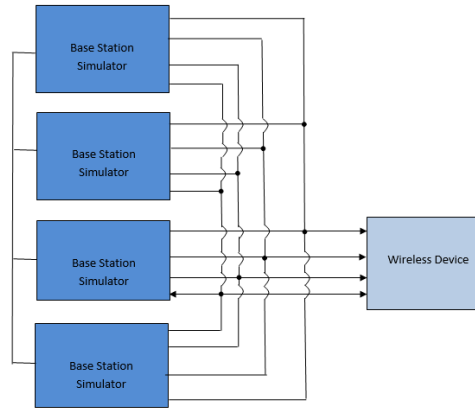


Figure G-2
DL CA with DL 4x4 MIMO Power Measurement Setup

G.2 Downlink Carrier Aggregation RF Conducted Powers

G.2.1 LTE Band 71 as PCC

Table G-3
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				SCC 1			SCC 2			SCC 3			Power							
				PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-4A-71A	LTE B71	10	133172	668	16QAM	1	25	68636	622	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	19.94	20.44
CA 4A-4A-71A	LTE B71	10	133172	668	16QAM	1	25	68636	622	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	19.97	20.44
CA 2A-6A-6A-71A	LTE B71	10	133172	668	16QAM	1	25	68636	622	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	19.99	20.44	
CA 2A-66C-71A	LTE B71	10	133172	668	16QAM	1	25	68636	622	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	19.98	20.44	

G.2.2 LTE Band 12 as PCC

Table G-4
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC			PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
					Mod.	PCC UL# RB	PCC UL RB Offset																						
CA 2A-12A (1)	LTE B12	3	23025	700.5	16QAM	1	7	5025	730.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.13	20.03
CA 4A-12A (1)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.10	19.96
CA 4A-12A (2)	LTE B12	3	23025	700.5	16QAM	1	7	5025	730.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.74	20.03
CA 12A-25A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B25	20	8305	1962.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.16	19.96
CA 12A-48A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B48	20	55990	3625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.96	19.96
CA 12A-66A (1)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.17	19.96
CA 12A-66A (2)	LTE B12	3	23025	700.5	16QAM	1	7	5025	730.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.18	20.03
CA 2C-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	-	-	-	-	-	-	19.49	19.96
CA 12A-48C	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	-	-	-	-	-	-	-	-	-	-	19.97	19.96
CA 2A-2A-4A-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	19.29	19.96
CA 2A-2A-12B	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	-	19.26	19.96
CA 2A-4A-4A-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	-	19.25	19.96
CA 2A-4A-7A-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B7	20	3100	2656	-	-	-	-	-	-	19.27	19.96
CA 2A-4A-12B	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	19.23	19.96
CA 2A-12A-66C	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	-	-	19.24	19.96
CA 4A-4A-12B	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	-	19.21	19.96
CA 2A-2A-7A-12A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B7	20	3100	2655	-	-	-	-	-	-	19.47	19.96
CA 2A-2A-12A-30A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	-	-	-	-	-	-	19.47	19.96
CA 2A-2A-12A-66A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	-	-	19.43	19.96
CA 2A-12A-30A-66A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	-	-	-	-	-	-	19.47	19.96

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G.2.3 LTE Band 13 as PCC

Table G-5
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC				PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1			SCC Band	SCC 2			SCC Band	SCC 3			LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
					Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel			SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	
CA 2A-4A-13A	LTE B13	10	23230	782	18QAM	1	49	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	19.93	20.48
CA 2A-13A-48A	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B2	20	900	1960	LTE B4B	20	55990	3625	-	-	-	-	20.81	20.67
CA 4A-4A-13A	LTE B13	10	23230	782	18QAM	1	49	5230	751	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	20.07	20.48
CA 13A-48A-66A	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B4B	20	55990	3625	LTE B6B	20	66786	2145	-	-	-	-	20.86	20.67
CA 2A-7C-13A	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B2	20	900	1960	LTE B7	20	3100	2655	-	-	-	-	20.19	20.67
CA 2A-13A-48C	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B2	20	900	1960	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	20.10	20.67
CA 2A-13A-66B	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B2	20	900	1960	LTE B6B	15	66786	2145	LTE B6B	5	66879	2154.3	20.21	20.67
CA 2A-13A-66C	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B2	20	900	1960	LTE B6B	20	66786	2145	LTE B6B	20	66884	2164.8	20.22	20.67
CA 13A-48C-66A	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B6B	5	66786	2145	20.10	20.67
CA 13A-66A-66B	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B6B	20	66786	2145	LTE B6B	5	67261	2192.5	LTE B6B	15	67261	2192.5	20.24	20.67
CA 13A-66A-66C	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B6B	20	66786	2145	LTE B6B	20	67236	2190	LTE B6B	20	67236	2190	20.23	20.67
CA 2A-2A-13A-66A-66A	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B6B	20	66786	2145	20.50	20.67
CA 2A-7A-7A-13A-66A	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B2	20	900	1960	LTE B7	20	2850	2630	LTE B7	20	3100	2655	20.45	20.67
CA 13A-48B-66A	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B4B	20	56386	3664.6	20.62	20.67
CA 13A-48E	LTE B13	5	23230	782	64QAM	1	24	5230	751	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B4B	20	56386	3664.6	20.60	20.67

G.2.4 LTE Band 14 as PCC

Table G-6
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC				PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1			SCC Band	SCC 2			SCC Band	SCC 3			LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
					Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel			SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	
CA 2A-2A-14A-30A-66A	LTE B14	5	23330	793	18QAM	1	12	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	19.17	19.70
CA 2A-2A-14A-66A-66A	LTE B14	5	23330	793	18QAM	1	12	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B6B	20	66786	2145	19.23	19.70
CA 2A-14A-30A-66A-66A	LTE B14	5	23330	793	18QAM	1	12	5330	763	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B6B	20	66786	2145	19.22	19.70

G.2.5 LTE Band 5 as PCC

Table G-7
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC			PCC UL# RB	PCC UL#B Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC 1			SCC Band	SCC 2			SCC Band	SCC 3			LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
				Mod.								SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]		SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]		SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]		
CA 5A-7A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	19.33	19.09	
CA 5A-26A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B5	10	8365	1962.5	-	-	-	-	-	-	-	-	19.33	19.09	
CA 5A-41A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	-	19.25	19.09	
CA 5B (1)	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B5	3	2486	877.6	-	-	-	-	-	-	-	-	19.27	19.09	
CA 2C-5A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	18.91	19.09	
CA 4A-5B	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B4	20	2175	2132.5	-	-	-	-	18.96	19.09	
CA 5B-30A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B30	10	9820	2355	-	-	-	-	18.93	19.09	
CA 2A-2A-4A-5A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	18.42	19.09	
CA 2A-4A-4A-5A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2390	2150	18.47	19.09	
CA 2A-5A-7C	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B7	20	2902	2635.2	18.44	19.09	
CA 2A-5A-48A-66A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B4B	20	55990	3625	LTE B6B	20	66786	2145	18.69	19.09	
CA 2A-5A-48C	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B4B	20	55990	3625	LTE B4B	20	66188	3644.8	19.27	19.09	
CA 2A-5B-66A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B2	20	900	1960	LTE B6B	20	66786	2145	18.35	19.09	
CA 5A-7A-66A-66A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B7	20	3100	2655	LTE B6B	20	66786	2145	LTE B6B	20	67236	2190	18.44	19.09	
CA 5A-48C-66A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B6B	20	66786	2145	19.17	19.09	
CA 5A-48D	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B4B	20	56386	3664.6	19.17	19.09	
CA 5A-66A-66B	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B6B	20	66786	2145	LTE B6B	15	67261	2192.5	LTE B6B	5	67168	2183.2	18.41	19.09	
CA 5A-66A-66C	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B6B	20	66786	2145	LTE B6B	20	67236	2190	LTE B6B	20	67038	2170.2	18.45	19.09	
CA 2A-2A-5A-30A-66A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	18.95	19.09	
CA 2A-2A-5A-66A-66A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B6B	20	66786	2145	18.57	19.09	
CA 2A-2A-5A-66B	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B6B	15	66786	2145	18.55	19.09	
CA 2A-2A-5A-66C	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B6B	20	66786	2145	18.47	19.09	
CA 2A-5A-7A-7A-66A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B7	20	2850	2630	LTE B7	20	3152	2660.2	LTE B7	20	3152	2660.2	18.51	19.09	
CA 2A-5A-30A-66A-66A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B6B	20	66786	2145	18.55	19.09	
CA 2A-5A-48A-66A-66A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B2	20	900	1960	LTE B4B	20	55990	3625	LTE B6B	20	66786	2145	18.78	19.09	
CA 5A-7C-66A-66A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B7	20	3100	2655	LTE B7	20	2902	2635.2	LTE B6B	20	66786	2145	18.71	19.09	
CA 5A-48C-66A-66A	LTE B5	5	20525	836.5	18QAM	1	12	2525	881.5	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B6B	20	66786	2145	18.73	19.09	

G.2.6 LTE Band 26 as PCC

Table G-8
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC				PCC (DL) Channel
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G.2.7 LTE Band 66 as PCC

Table G-9
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC				SCC 1				SCC 2				SCC 3				LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
					Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel			SCC (DL) Freq. [MHz]
CA 12A-66A (1)	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	17.29	17.23
CA 12A-66A (2)	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	17.29	17.23
CA 13A-48A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B13	10	5230	751	LTE B48	20	55990	3625	-	-	-	-	17.39	17.23
CA 48A-48A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B48	20	55990	3625	LTE B48	20	56040	3690	-	-	-	-	17.30	17.23
CA 2A-5A-48A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B48	20	55990	3625	16.44	17.23
CA 2A-5B-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	16.88	17.23
CA 2A-7C-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B7	20	3100	1960	LTE B7	20	3100	2655	LTE B7	20	2902	2635.2	16.88	17.23
CA 2A-12A-66C	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	66578	2124.2	LTE B2	20	900	1960	LTE B12	10	5095	737.5	16.86	17.23
CA 2A-13A-66B	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	15	66554	2121.8	LTE B2	20	900	1960	LTE B13	10	5230	751	16.71	17.23
CA 2A-13A-66C	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	66578	2124.2	LTE B2	20	900	1960	LTE B13	10	5230	751	16.71	17.23
CA 2A-66A-66A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	16.77	17.23
CA 2A-66A-66A-71A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B71	20	66761	634.5	16.63	17.23
CA 2A-66A-66B	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	15	67218	2108.2	LTE B66	5	67311	2197.5	LTE B2	20	900	1960	16.68	17.23
CA 2A-66B-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	15	66554	2121.8	LTE B66	20	67236	2190	LTE B2	20	900	1960	16.64	17.23
CA 2A-66A-66C	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	LTE B2	20	900	1960	16.52	17.23
CA 2A-66C-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	66578	2124.2	LTE B66	20	67236	2190	LTE B2	20	900	1960	16.59	17.23
CA 2A-66C-71A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	15	67218	2108.2	LTE B66	5	67311	2197.5	LTE B2	20	900	1960	16.61	17.23
CA 2C-66A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	702	1940.2	16.57	17.23
CA 5A-7A-66A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B7	20	3100	2655	16.60	17.23
CA 5A-48C-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B5	10	2525	881.5	LTE B48	20	56188	3644.8	LTE B48	20	56188	3644.8	16.75	17.23
CA 5A-66A-66B	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	15	67218	2108.2	LTE B66	5	67311	2197.5	LTE B5	10	2525	881.5	16.74	17.23
CA 5A-66A-66C	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	16.77	17.23
CA 5A-66A-66C	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	66578	2124.2	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	16.70	17.23
CA 7A-7A-2A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B7	20	3100	2655	LTE B7	20	2902	2635.2	LTE B7	20	2902	2635.2	16.76	17.23
CA 13A-48C-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B13	10	5230	751	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	16.79	17.23
CA 13A-66A-66B	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	15	67218	2108.2	LTE B66	5	67311	2197.5	LTE B13	10	5230	751	16.61	17.23
CA 13A-66B-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	15	66554	2121.8	LTE B66	20	67236	2190	LTE B13	10	5230	751	16.62	17.23
CA 13A-66A-66C	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	15	67218	2108.2	LTE B66	20	67236	2190	LTE B13	10	5230	751	16.63	17.23
CA 13A-66C-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	66578	2124.2	LTE B66	20	67236	2190	LTE B13	10	5230	751	16.58	17.23
CA 29A-30A-66A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67236	2190	LTE B29	10	9715	722.5	LTE B30	10	9820	2385	16.56	17.23
CA 30A-66A-66A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	LTE B30	10	9820	2385	16.64	17.23
CA 48A-48C-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B48	20	55990	3625	LTE B48	20	55340	3620	LTE B48	20	55538	3579.8	16.63	17.23
CA 2A-2A-5A-30A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	16.61	17.23
CA 2A-2A-5A-66A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	16.57	17.23
CA 2A-2A-5A-66B	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	15	66554	2121.8	LTE B2	20	900	1960	LTE B2	20	700	1940	16.43	17.23
CA 2A-2A-5A-66C	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	15	66554	2121.8	LTE B2	20	900	1960	LTE B2	20	700	1940	16.43	17.23
CA 2A-2A-7A-12A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B7	20	3100	2655	16.62	17.23
CA 2A-2A-7A-13A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B7	20	3100	2655	16.43	17.23
CA 2A-2A-7A-66A-71A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B7	20	3100	2655	16.66	17.23
CA 2A-2A-12A-30A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	16.60	17.23
CA 2A-2A-12A-30A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	16.64	17.23
CA 2A-2A-13A-66A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	16.63	17.23
CA 2A-2A-14A-30A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B14	10	5330	763	16.66	17.23
CA 2A-2A-14A-66A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	16.62	17.23
CA 2A-2A-29A-30A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	9715	722.5	16.63	17.23
CA 2A-2A-29A-66A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	9715	722.5	16.51	17.23
CA 2A-5A-7A-7A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B7	20	3100	2655	16.49	17.23
CA 2A-5A-30A-66A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	16.49	17.23
CA 2A-5A-48A-66A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	16.75	17.23
CA 2A-7A-7A-13A-66A	LTE B66	5	131997	1712.5	64QAM	1	12	66461	2112.5														

G.2.10 LTE Band 7 as PCC

Table G-12
Maximum Output Powers

Combination	PCC Band	PCC				SCC 1				SCC 2				SCC 3				Power	
		PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 5A-7A	LTE B7	10	20800	2505	64QAM	1	49	2800	2625	LTE B5	10	2625	881.5	-	-	-	-	13.99	13.87
CA 7A-25A	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B26	15	8865	876.5	-	-	-	-	14.00	13.90
CA 7A-28A	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B29	10	9715	722.5	-	-	-	-	13.99	13.90
CA 7B	LTE B7	10	20800	2505	64QAM	1	49	2800	2625	LTE B7	20	2944	2639.4	-	-	-	-	14.00	13.87
CA 4A-4A-7A (1)	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	13.46	13.90
CA 7A-7A-25A	LTE B7	10	20800	2505	64QAM	1	49	2800	2625	LTE B7	20	3350	2680	LTE B26	15	8865	876.5	13.85	13.87
CA 2A-4A-7A-7A	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B7	20	2650	2630	LTE B2	20	900	1960	13.28	13.90
CA 2A-4A-7A-12A	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	13.26	13.90
CA 2A-4A-7C	LTE B7	10	20800	2505	64QAM	1	49	2800	2625	LTE B7	20	2944	2639.4	LTE B2	20	900	1960	13.22	13.87
CA 2A-5A-7C	LTE B7	10	20800	2505	64QAM	1	49	2800	2625	LTE B7	20	2944	2639.4	LTE B2	20	900	1960	13.15	13.87
CA 2A-7C-13A	LTE B7	10	20800	2505	64QAM	1	49	2800	2625	LTE B7	20	2944	2639.4	LTE B2	20	900	1960	13.18	13.87
CA 2A-7C-66A	LTE B7	10	20800	2505	64QAM	1	49	2800	2625	LTE B7	20	2944	2639.4	LTE B2	20	900	1960	13.20	13.87
CA 5A-7A-66A-66A	LTE B7	10	20800	2505	64QAM	1	49	2800	2625	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	13.17	13.87
CA 7A-7A-25A-66A	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B7	20	2850	2630	LTE B25	20	8385	1922.5	13.31	13.90
CA 2A-2A-7A-12A-66A	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B2	20	900	1960	LTE B2	20	700	1940	13.12	13.90
CA 2A-2A-7A-66A-66A	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B2	20	900	1960	LTE B2	20	700	1940	13.16	13.90
CA 2A-2A-7A-66A-71A	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B2	20	900	1960	LTE B2	20	700	1940	13.07	13.90
CA 7A-5A-7A-7A-66A	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B2	20	900	1960	LTE B5	10	2525	881.5	12.95	13.90
CA 2A-7A-7A-13A-66A	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B7	20	2850	2630	LTE B2	20	900	1960	13.16	13.90
CA 2A-7A-7A-66A-66A	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	LTE B7	20	2850	2630	LTE B2	20	900	1960	13.07	13.90
CA 2A-7C-66A-66A	LTE B7	10	20800	2505	64QAM	1	49	2800	2625	LTE B7	20	2944	2639.4	LTE B2	20	900	1960	13.18	13.87
CA 5A-7C-66A-66A	LTE B7	10	20800	2505	64QAM	1	49	2800	2625	LTE B7	20	2944	2639.4	LTE B5	10	2525	881.5	13.05	13.87

G.2.11 LTE Band 41 as PCC

Table G-13
Maximum Output Powers

Combination	PCC Band	PCC				SCC 1				SCC 2				SCC 3				Power	
		PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 5A-41A	LTE B41	20	61050	2680	QPSK	1	50	61050	2680	LTE B5	10	2625	881.5	-	-	-	-	13.91	13.88
CA 41A-41A (1)	LTE B41	20	61050	2680	QPSK	1	50	61050	2680	LTE B41	20	30340	2680	-	-	-	-	13.91	13.88
CA 41A-41C	LTE B41	20	61050	2680	QPSK	1	50	61050	2680	LTE B41	20	30340	2680	-	-	-	-	13.91	13.88
CA 41C-41A	LTE B41	20	61050	2680	QPSK	1	50	61050	2680	LTE B41	20	30340	2680	-	-	-	-	13.91	13.88
CA 41A-41D	LTE B41	20	61050	2680	QPSK	1	50	61050	2680	LTE B41	20	30340	2680	-	-	-	-	13.88	13.88
CA 41C-41D	LTE B41	20	61050	2680	QPSK	1	50	61050	2680	LTE B41	20	30340	2680	-	-	-	-	13.88	13.88
CA 41D-41A	LTE B41	20	61050	2680	QPSK	1	50	61050	2680	LTE B41	20	30340	2680	-	-	-	-	13.88	13.88
CA 41C-41C	LTE B41	20	61050	2680	QPSK	1	50	61050	2680	LTE B41	20	30340	2680	-	-	-	-	13.88	13.88
CA 41C-41D	LTE B41	20	61050	2680	QPSK	1	50	61050	2680	LTE B41	20	30340	2680	-	-	-	-	13.88	13.88
CA 41D-41C	LTE B41	20	61050	2680	QPSK	1	50	61050	2680	LTE B41	20	30340	2680	-	-	-	-	13.88	13.88

G.2.12 LTE Band 48 as PCC

Table G-14
Maximum Output Powers

Combination	PCC Band	PCC				SCC 1				SCC 2				SCC 3				Power	
		PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 48A-48A	LTE B48	20	56207	3646.7	QPSK	50	25	56207	3646.7	LTE B48	20	55340	3560	-	-	-	-	13.75	13.71
CA 48B	LTE B48	15	55705	3602.5	QPSK	36	37	55705	3602.5	LTE B48	5	55658	3611.8	-	-	-	-	13.59	13.48
CA 48A-48C	LTE B48	20	56207	3646.7	QPSK	50	25	56207	3646.7	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	13.71	13.71
CA 48C-48A	LTE B48	20	56207	3646.7	QPSK	50	25	56207	3646.7	LTE B48	20	56009	3626.9	LTE B48	20	55340	3560	13.74	13.71
CA 48D	LTE B48	20	56207	3646.7	QPSK	50	25	56207	3646.7	LTE B48	20	56009	3626.9	LTE B48	20	55611	3607.1	13.69	13.71
CA 48E	LTE B48	20	56207	3646.7	QPSK	50	25	56207	3646.7	LTE B48	20	56009	3626.9	LTE B48	20	55611	3607.1	13.66	13.71

FCC ID: BCGA2926	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Tablet Device		APPENDIX G: Page 6 of 12

G.3 DLCA with DL 4x4 MIMO RF Conduction Powers

This device supports downlink 4x4 MIMO operations for some LTE bands. Uplink transmission is limited to a single output stream. When carrier aggregation was applicable, the general test selection and setup procedures described in Section 0 were applied.

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 average 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.

G.3.1 LTE 4x4 MIMO DL Standalone Powers

Table G-15
Maximum Output Powers Ant 1

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Target Power [dBm]
30	10	27710	2310	QPSK	1	25	14.58	14.41	13.9
48	20	56207	3646.7	QPSK	50	25	13.73	13.71	13.0

Table G-16
Maximum Output Powers Ant 2b

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Target Power [dBm]
41	20	41490	2680	QPSK	1	99	14.71	14.75	14.5

Table G-17
Maximum Output Powers Ant 3

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Target Power [dBm]
66	5	131997	1712.5	64QAM	1	12	17.29	17.23	16.4
25	20	26365	1882.5	64QAM	1	50	15.18	14.94	15.0
7	5	21425	2567.5	256QAM	1	12	13.98	13.90	13.0

FCC ID: BCGA2926	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Tablet Device		APPENDIX G: Page 7 of 12

G.3.2 LTE Band 12 as PCC

Table G-18
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Freq. [MHz]	Mod.	PCC				PCC UL RB Offset	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC 1				DL Ant. Config.	SCC Band	SCC 2				DL Ant. Config.	SCC Band	SCC 3				DL Ant. Config.	SCC Band	SCC 4				DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
					PCC UL RB	PCC [DL] Ch.	SCC [DL] Ch.	SCC [DL] Freq. [MHz]					SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]			SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]			SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
CA [2A] [2A] (1)	LTE B12	5	23025	700.5	16QAM	1	7	5025	730.5	2x2	LTE B2	20	900	1590	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

G.3.3 LTE Band 13 as PCC

Table G-19
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC				PCC UL RB Offset	PCC [DL] Ch.	PCC [UL] Freq. [MHz]	DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				DL Ant. Config.	SCC 4				DL Ant. Config.	Power	
				Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.					SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [2A] [4A] [13A]	LTE B13	5	23230	782	16QAM	1	49	5230	751	2x2	LTE B2	20	900	1590	4x4	LTE B4	20	2175	2123.5	4x4	-	-	-	-	-	-	-	-	-	-	19.77	20.48	
CA [2A] [3A] [48A]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B2	20	900	1590	4x4	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	-	-	-	-	19.95	20.67	
CA [4A] [4A] [13A]	LTE B13	5	23230	782	16QAM	1	49	5230	751	2x2	LTE B4	20	2175	2123.5	4x4	LTE B4	20	2350	2150	4x4	-	-	-	-	-	-	-	-	-	-	19.85	20.48	
CA [2A] [66A] [66A]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B48	20	56188	3644.8	4x4	LTE B06	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	20.15	20.67	
CA [2A] [71C] [13A]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B2	20	900	1590	4x4	LTE B7	20	3300	2655	4x4	LTE B7	20	2952	2673.2	4x4	-	-	-	-	-	20.07	20.67	
CA [2A] [13A] [48C]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B2	20	900	1590	4x4	LTE B48	20	55990	3625	4x4	LTE B48	20	56188	3644.8	4x4	-	-	-	-	-	20.14	20.67	
CA [2A] [13A] [66B]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B2	20	900	1590	4x4	LTE B06	15	66786	2145	4x4	LTE B06	5	66879	2154.3	4x4	-	-	-	-	-	20.11	20.67	
CA [2A] [13A] [66C]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B2	20	900	1590	4x4	LTE B06	20	66786	2145	4x4	LTE B06	20	66984	2164.8	4x4	-	-	-	-	-	20.04	20.67	
CA [13A] [48C] [66A]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B48	20	55990	3625	4x4	LTE B06	20	66786	2145	4x4	LTE B06	20	66786	2145	4x4	-	-	-	-	-	20.17	20.67	
CA [13A] [66A] [66B]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B06	20	66786	2145	4x4	LTE B06	20	67236	2190	4x4	LTE B06	20	67236	2190	4x4	-	-	-	-	-	20.29	20.67	
CA [13A] [66A] [66C]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B06	20	66786	2145	4x4	LTE B06	20	67038	2160.2	4x4	LTE B06	20	67236	2190	4x4	-	-	-	-	-	20.16	20.67	
CA [2A] [2A] [13A] [66A] [66A]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B2	20	900	1590	4x4	LTE B2	20	700	1540	4x4	LTE B06	20	66786	2145	4x4	LTE B06	20	67236	2190	4x4	20.14	20.67	
CA [2A] [2A] [2A] [13A] [66A]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B2	20	900	1590	4x4	LTE B7	20	2950	2650	4x4	LTE B7	20	3300	2655	4x4	LTE B06	20	66836	2150	4x4	19.92	20.67	
CA [2A] [2A] [2A] [13A] [66A] [66A]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B48	20	55990	3625	4x4	LTE B48	20	56188	3644.8	4x4	LTE B48	20	56386	3664.6	4x4	LTE B06	20	66786	2145	4x4	20.10	20.67	
CA [13A] [48C]	LTE B13	5	23230	782	16QAM	1	24	5230	751	2x2	LTE B48	20	55990	3625	4x4	LTE B48	20	56188	3644.8	4x4	LTE B48	20	56386	3664.6	4x4	LTE B48	20	56584	3684.4	4x4	20.76	20.67	

G.3.4 LTE Band 14 as PCC

Table G-20
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC				PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				DL Ant. Config.	SCC 4				Power			
				Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.			SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [2A] [2A] [2A] [30A] [66A]	LTE B14	5	23330	793	16QAM	1	12	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B30	10	9620	2305	4x4	LTE B66	20	66780	2145	4x4	18.75	19.70
CA [2A] [2A] [2A] [30A] [66A]	LTE B14	5	23330	793	16QAM	1	12	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66780	2145	4x4	LTE B66	20	67230	2190	4x4	18.74	19.70
CA [2A] [2A] [2A] [30A] [66A]	LTE B14	5	23330	793	16QAM	1	12	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9620	2305	4x4	LTE B66	20	66780	2145	4x4	LTE B66	20	67230	2190	4x4	18.74	19.70

G.3.6 LTE Band 5 as PCC

Table G-22
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC		DL Ant. Config.	SCC 1		DL Ant. Config.	SCC 2		DL Ant. Config.	SCC 3		DL Ant. Config.	SCC 4		DL Ant. Config.	Power													
						PCC UL RB	PCC UL RB Offset		SCC Band	SCC BW [MHz]		SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]		SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)								
CA SA(7A)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B7	20	3100	2655	4x4	-	-	-	-	-	-	-	18.45	19.05										
CA SA(2A)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B25	20	8365	1962.5	4x4	-	-	-	-	-	-	-	18.70	19.05										
CA SA(41A)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B41	20	40620	2593	4x4	-	-	-	-	-	-	-	19.08	19.05										
CA (2C) SA	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	702	1940.2	4x4	-	-	-	18.26	19.05									
CA (4A) SA	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B5	10	2413	874.3	2x2	LTE B4	20	2175	2122.5	4x4	-	-	-	18.29	19.05									
CA SA(4A) SA	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B5	10	2413	874.3	2x2	LTE B20	20	9620	2105	4x4	-	-	-	18.47	19.05									
CA (2A) SA(1A) SA	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	702	1940	4x4	LTE B4	20	2175	2122.5	4x4	-	-	18.28	19.05					
CA (2A) SA(4A) SA	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2122.5	4x4	LTE B4	20	2175	2122.5	4x4	-	-	18.26	19.05					
CA (2A) SA(7C)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	4x4	LTE B7	20	2902	2615.2	4x4	-	-	18.26	19.05					
CA (2A) SA(8A) SA(6A)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	55990	3625	4x4	LTE B4	20	56786	3644.8	4x4	-	-	18.31	19.05					
CA SA(7A) SA(6A)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B5	10	2413	874.3	2x2	LTE B4	20	56188	3644.8	4x4	LTE B4	20	56385	3664.8	4x4	-	-	18.45	19.05					
CA SA(4B) SA	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B4	20	55990	3625	4x4	LTE B4	20	56188	3644.8	4x4	LTE B4	20	56786	3664.8	4x4	-	-	18.04	19.05					
CA SA(6A) SA(6C)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B5	10	2413	874.3	2x2	LTE B6	20	67236	2145	4x4	LTE B6	20	67236	2145	4x4	-	-	18.33	19.05					
CA (2A) (2A) SA(3A) SA(6A)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B20	20	9620	2105	4x4	LTE B6	20	68786	2145	4x4	-	-	18.36	19.05
CA (2A) (2A) SA(6A) SA(6A)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B6	20	68786	2145	4x4	LTE B6	20	67236	2145	4x4	-	-	18.39	19.05
CA (2A) SA(7A) SA(7A) SA(6A)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B2	20	2000	2030	4x4	LTE B7	20	3100	2655	4x4	LTE B7	20	2902	2615.2	4x4	LTE B6	20	68786	2145	4x4	-	-	18.36	19.05
CA (2A) SA(6A) SA(6A) SA(6A)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	8620	2105	4x4	LTE B6	20	68786	2145	4x4	LTE B6	20	67236	2145	4x4	-	-	18.17	19.05
CA SA(7C) SA(6A) SA(6A)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B7	20	3100	2655	4x4	LTE B7	20	2902	2615.2	4x4	LTE B6	20	68786	2145	4x4	LTE B6	20	67236	2145	4x4	-	-	18.40	19.05
CA SA(4B) SA(6A) SA(6A)	LTE B5	5	2025.5	836.5	16QAM	1	12	2525	881.5	2x2	LTE B4	20	55990	3625	4x4	LTE B4	20	56188	3644.8	4x4	LTE B6	20	68786	2145	4x4	LTE B6	20	67236	2145	4x4	-	-	18.30	19.05

G.3.7 LTE Band 26 as PCC

Table G-23
Maximum Output Powers

Combination	PCC Band	PCC										SCC 1				SCC 2				Power			
		PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Power (dBm)	
CA (7A)-26A	LTE B26	10	26740	819	16QAM	1	0	8740	864	2x2	LTE B7	20	3100	2655	4x4	-	-	-	-	-	-	18.67	19.35
CA (25A)-26A	LTE B26	1.4	26697	814.7	16QAM	1	5	8697	859.7	2x2	LTE B25	20	8365	1962.5	4x4	-	-	-	-	-	-	19.10	19.43
CA 26A-[41A]	LTE B26	10	26740	819	16QAM	1	0	8740	864	2x2	LTE B41	20	40620	2593	4x4	-	-	-	-	-	-	19.41	19.35
CA (7A)-[7A]-26A	LTE B26	10	26740	819	16QAM	1	0	8740	864	2x2	LTE B7	20	3100	2655	4x4	LTE B7	20	2850	2630	4x4	-	18.78	19.35
CA (25A)-[25A]-26A	LTE B26	3	26705	815.5	16QAM	1	7	8705	860.5	2x2	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	-	18.71	19.32
CA 26A-[41C]	LTE B26	10	26740	819	16QAM	1	0	8740	864	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	19.28	19.35

G.3.8 LTE Band 66 as PCC

Table G-24
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				DL Ant. Config.	SCC 4				DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
						PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]			
CA (1A) SA(1A) (1)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B12	10	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) (2)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B12	10	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B48	20	55990	3625	4x4	LTE B48	20	56040	3640	4x4	LTE B48	20	56090	3655	4x4	LTE B48	20	56140	3670	4x4	18.97	17.23
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM	1	12	6654.5	1212.5	4x4	LTE B2	20	5095	1717.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	17.23	
CA (1A) SA(1A) SA(1A)	LTE B66	5	12107.5	1212.5	16QAM																											

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Table G-33 Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power					
	PCC Band	PCC BW [MHz]	PCC [LA] [dBm]	PCC [RA] Freq. [MHz]	Mod.	PCC LA # RB	PCC RA # RB Offset	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [LA] [dBm]	SCC [RA] Freq. [MHz]	Mod.	SCC LA # RB	SCC RA # RB Offset	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [LA] [dBm]	SCC [RA] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [LA] [dBm]	SCC [RA] Freq. [MHz]	DL Ant. Config.	ULCA Tx Power with CA Enabled [dBm]	ULCA Tx Power [dBm]	
CA (42C) (42A)	LTE B41	20	462020	2353	QPSK	0	0	462030	2353	4x4	LTE B41	20	462022	2353.2	QPSK	0	0	462022	2353.2	4x4	LTE B41	20	397700	2505	4x4	LTE B41	20	397700	2505	4x4	15.32	15.21
CA (42C) (42B)	LTE B41	20	462020	2353	QPSK	0	0	462030	2353	4x4	LTE B41	20	462022	2353.2	QPSK	0	0	462022	2353.2	4x4	LTE B41	20	397700	2505	4x4	LTE B41	20	397700	2505	4x4	15.32	15.21
CA (42C) (42C)	LTE B41	20	462020	2353	QPSK	0	0	462030	2353	4x4	LTE B41	20	462022	2353.2	QPSK	0	0	462022	2353.2	4x4	LTE B41	20	397700	2505	4x4	LTE B41	20	397700	2505	4x4	15.35	15.21
CA (42C)	LTE B41	20	462020	2353	QPSK	0	0	462030	2353	4x4	LTE B41	20	462022	2353.2	QPSK	0	0	462022	2353.2	4x4	LTE B41	20	462024	2551.8	4x4	LTE B41	20	462024	2551.8	4x4	18.30	18.26
CA (42C) (42D)	LTE B41	20	462020	2353	QPSK	0	0	462030	2353	4x4	LTE B41	20	462022	2353.2	QPSK	0	0	462022	2353.2	4x4	LTE B41	20	462024	2551.8	4x4	LTE B41	20	462024	2551.8	4x4	15.21	15.21
CA (42C) (42E)	LTE B41	20	462020	2353	QPSK	0	0	462030	2353	4x4	LTE B41	20	462022	2353.2	QPSK	0	0	462022	2353.2	4x4	LTE B41	20	462024	2551.8	4x4	LTE B41	20	462024	2551.8	4x4	15.35	15.21

Table G-34
Maximum Output Powers

[illegible]

G.5 Downlink Carrier Aggregation with Inter-band Uplink Carrier Aggregation enabled

This device supports inter-band uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with inter-band ULCA active and additional CA configurations active in the downlink for the configuration per Fall 2017 TCB Workshop Notes.

Per FCC Guidance, additional SAR measurements for these configurations were not required since their maximum output power was not more than 0.25 dB higher than the maximum output power for with only ULCA active.

G.5.1 DL Carrier Aggregation RF Conducted Powers

Table G-35
Maximum Output Powers

[illegible]

G.5.2 DL Carrier Aggregation with DL 4x4 MIMO RF Conducted Powers

Note: 4x4 DL MIMO is only operating in the downlink. Uplink transmission is limited to a single output stream for each component carrier of ULCA.

Table G-36
Maximum Output Powers

[illegible]