

APPENDIX J: LTE DOWNLINK ONLY CARRIER AGGREGATION TEST REDUCTION METHODOLOGY

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 J-1 – Example of Exclusion Table for SISO Configurations

[illegible]

Table J-2 – Example of Exclusion Table for 4x4 Downlink MIMO Configurations

Index	ZCC	Supported Channel Bandwidth [MHz]		Restriction	Completely Covered by Measurement Superset
		CC1	CC2		
ACC#M1	CA [2C]	5, 10, 15, 20	5, 10, 15, 20	ACC#M6	No
ACC#M2	CA [2A]	5, 10, 15, 20	5, 10, 15, 20	ACC#M1	No
ACC#M3	CA [2A] [2A]	5, 10, 15, 20	5, 10, 15, 20	ACC#M2	No
ACC#M4	CA [2A] [4C]	5, 10, 15, 20	5, 10, 15, 20	ACC#M1	No
ACC#M5	CA [2A] [4A] (2)	5, 10, 15, 20	5, 10, 15, 20	No	No
ACC#M6	CA [2A] SA	5, 10, 15, 20	5, 10	ACC#M3	No
ACC#M7	CA [2A] [2A] (1)	5, 10, 15, 20	5, 10, 15	No	No
ACC#M8	CA [2A] 3SA	5, 10, 15, 20	5, 10	ACC#M6	No
ACC#M9	CA [2A] 47A	5, 10	5, 10	ACC#M9	No
ACC#M10	CA [2A] 29A (2)	5, 10, 15, 20	5, 10	ACC#M12	No
ACC#M11	CA [2A] 29A (1)	5, 10, 15, 20	5, 10	ACC#M11	No
ACC#M12	CA [2A] 66A (2)	5, 10, 15, 20	5, 10, 15, 20	ACC#M1	No
ACC#M13	CA 2A (66A) (2)	5, 10, 15, 20	5, 10, 15, 20	ACC#M1	No
ACC#M14	CA [2A] 66A (12)	5, 10, 15, 20	5, 10, 15, 20	No	No
ACC#M15	CA [2A] 71A	5, 10, 15, 20	5, 10, 15, 20	ACC#M11	No
ACC#M16	CA 2A (66A)	5, 10	5, 10, 15, 20	ACC#M16	No
ACC#M17	CA 12A (66A) (4)	5, 10	5, 10, 15, 20	ACC#M17	No
ACC#M18	CA [2A] 13A	5, 10	5, 10, 15, 20	ACC#M18	No
ACC#M19	CA 30A (66A)	5, 10	5, 10, 15, 20	ACC#M20	No
ACC#M20	CA 16A	5, 10, 15	5, 10, 15	ACC#M4	No
ACC#M21	CA 66C	5, 10, 15, 20	5, 10, 15, 20	ACC#M6	No
ACC#M22	CA 66A (66A)	5, 10, 15, 20	5, 10, 15, 20	ACC#M8	No
ACC#M23	CA 66A (66A)	5, 10, 15, 20	5, 10, 15, 20	ACC#M1	No

Note: [CC] indicates component carrier with 4x4 DL MIMO antenna configuration

FCC ID PY7-57325M	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 1 of 11

J.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.

This device supports LAA with downlink carrier aggregation only. It uses carrier aggregation in the downlink to combine LTE in the unlicensed spectrum (i.e. LTE Band 46) with LTE in the licensed band (served as PCC). All uplink communications and acknowledgements on the PCC remain identical to specifications when downlink carrier aggregation is inactive.

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 9.3 and appendix I. 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.

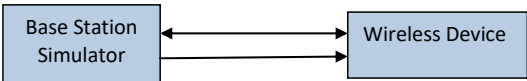


Figure J-1
DL CA Power Measurement Setup

FCC ID PY7-57325M	SAR EVALUATION REPORT	Approved by: Technical Manager
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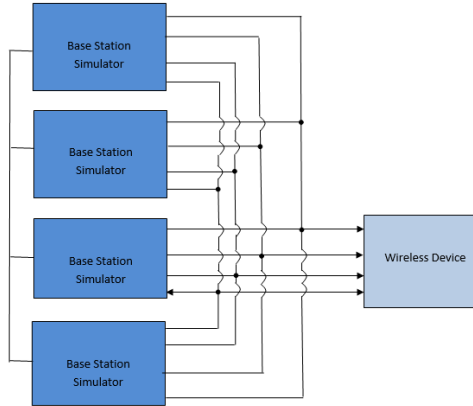


Figure J-2
DL CA with DL 4x4 MIMO Power Measurement Setup

J.2 Downlink Carrier Aggregation RF Conducted Powers

J.2.1 LTE Band 71 as PCC

Table J-3
Maximum Output Powers

Combination	PCC Band	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 1				SCC 2				SCC 3				Power	
										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 4A-4A-71A	LTE B71	10	13297	680.5	QPSK	1	49	68761	634.5	LTE B4	20	2175	2132.5	LTE B4	10	2390	2150	-	-	-	-	23.93	24.09
CA 2A-2A-4A-71A	LTE B71	10	13297	680.5	QPSK	1	49	68761	634.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	23.93	24.09
CA 2A-2A-6A-71A	LTE B71	10	13297	680.5	QPSK	1	49	68761	634.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	23.85	24.09
CA 2A-6A-6A-71A	LTE B71	10	13297	680.5	QPSK	1	49	68761	634.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	23.85	24.09
CA 2A-66C-71A	LTE B71	10	13297	680.5	QPSK	1	49	68761	634.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	23.85	24.09

J.2.2 LTE Band 12 as PCC

Table J-4
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC					SCC 1				SCC Band	SCC 2				SCC 3				SCC 4				Power		
			PCC [DL] 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]	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)
CA 12A-66A (1)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	24.03	24.09
CA 12A-66A (2)	LTE B12	5	23035	700.5	QPSK	1	7	5025	730.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	24.07	24.12
CA 2A-12A (1)	LTE B12	5	23035	700.5	QPSK	1	7	5025	730.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	24.04	24.12
CA 4A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	24.03	24.09
CA 4A-12A (2)	LTE B12	5	23035	700.5	QPSK	1	7	5025	730.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	24.08	24.12
CA 12B-66A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	20	5037	736.7	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	24.02	24.09
CA 2A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	24.04	24.09
CA 4A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B4	20	2175	2132.5	LTE B4	20	2375	2182.5	-	-	-	-	-	-	-	-	24.08	24.09
CA 2A-12A-66C	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	-	-	-	-	24.04	24.09
CA 2A-12A-66A-66A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09

J.2.3 LTE Band 13 as PCC

Table J-5
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	PCC				SCC Band	SCC 1				SCC 2				SCC 3				Power					
					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]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)				
CA 13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 2A-13A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	24.03	24.09				
CA 2A-13A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	24.03	24.09				
CA 4A-13A (1)	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	24.03	24.09				
CA 4A-13A (2)	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	24.03	24.09				
CA 13A-66A-66C	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 13A-66A-66C	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 2A-13A-66C	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	24.03	24.09				
CA 2A-13A-66C	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	24.03	24.09				
CA 13A-66B-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 13A-66B-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 2A-13A-66B	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	24.03	24.09				
CA 2A-13A-66B	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	24.03	24.09				
CA 13A-66C-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 13A-66C-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 2A-13A-66C	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	24.03	24.09				
CA 2A-13A-66C	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	24.03	24.09				
CA 13A-66B-66B	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 13A-66B-66B	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 2A-13A-66B	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	24.03	24.09				
CA 2A-13A-66B	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	24.03	24.09				
CA 13A-66A-66B	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 13A-66A-66B	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	24.03	24.09				
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
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CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
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CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09
CA 2A-13A-66A-66A	LTE B13	5	23035	782	QPSK	1	12	5035	782	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.03	24.09

J.2.4 LTE Band 5 as PCC

Table J-6
Maximum Output Powers

[illegible]

FCC ID PY7-57325M	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 4 of 11

J.2.5 LTE Band 66 as PCC

Table J-7
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch. Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC 1		SCC Band	SCC BW [MHz]	SCC 2		SCC Band	SCC BW [MHz]	SCC 3		SCC Band	SCC BW [MHz]	SCC 4		LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
											SCC [DL] Channel	SCC [DL] Freq. [MHz]			SCC [DL] Channel	SCC [DL] Freq. [MHz]			SCC [DL] Channel	SCC [DL] Freq. [MHz]			SCC [DL] Channel	SCC [DL] Freq. [MHz]		
CA 12A-66A (1)	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B12	10	5086	787.5	-	-	-	-	-	-	-	-	-	-	-	23.97	23.96
CA 12A-66A (2)	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B12	10	5086	787.5	-	-	-	-	-	-	-	-	-	-	-	23.97	23.96
CA 12B-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B12	10	5086	787.5	-	-	-	-	-	-	-	-	-	-	-	23.78	23.96
CA 13A-46A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46	20	50906	5037.5	-	-	-	-	-	-	-	23.79	23.96
CA 2A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	10	47125	722.5	-	-	-	-	-	-	-	23.46	23.96
CA 2A-2A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B12	10	5086	787.5	-	-	-	-	-	-	-	-	-	-	-	23.79	23.96
CA 46A-46A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B46	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	-	-	-	-	23.77	23.96
CA 46A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B46	20	50906	5037.5	-	-	-	-	-	-	-	23.79	23.96
CA 66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	10	47125	722.5	-	-	-	-	-	-	-	23.79	23.96
CA 5A-46A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B5	10	2525	881.5	LTE B46	20	50660	5037.5	-	-	-	-	-	-	-	23.78	23.96
CA 66A-66C	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	-	-	-	-	-	-	-	23.77	23.96
CA 13A-46A-66B	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.82	23.96
CA 13A-46A-66C	LTE B66	5	131997	1712.5	QPSK	1	12	66461	2112.5	LTE B66	15	46554	2121.8	LTE B13	10	5230	751	LTE B46	20	50906	5037.5	-	-	-	23.86	23.96
CA 2A-13A-66C	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B13	10	5230	751	LTE B46	20	50906	5037.5	-	-	-	23.48	23.96
CA 2A-13A-66B	LTE B66	5	131997	1712.5	QPSK	1	12	66461	2112.5	LTE B66	15	46554	2121.8	LTE B2	10	500	1960	LTE B13	10	5230	751	-	-	-	23.93	23.94
CA 2A-2A-66A-71A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	10	47125	722.5	-	-	-	-	-	-	-	23.94	23.96
CA 2A-46A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	23.80	23.96
CA 2A-5A-46A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B5	10	2525	881.5	LTE B46	20	50906	5037.5	-	-	-	-	-	-	-	23.45	23.96
CA 2A-66A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	23.88	23.96
CA 2A-66A-66A-71A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	23.87	23.96
CA 2A-66A-71A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	10	47125	722.5	-	-	-	-	-	-	-	23.79	23.96
CA 2A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	23.84	23.96
CA 46C-46A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B46	20	50660	5037.5	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.80	23.96
CA 46C-46A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.86	23.96
CA 46A-46A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.86	23.96
CA 46A-46A-66B	LTE B66	20	135272	1770	QPSK	1	12	66461	2112.5	LTE B66	15	46554	2121.8	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.80	23.96
CA 46A-46A-66C	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.79	23.96
CA 5A-46A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B5	10	2525	881.5	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.85	23.96
CA 5A-46A-66B	LTE B66	5	131997	1712.5	QPSK	1	12	66461	2112.5	LTE B66	15	46554	2121.8	LTE B5	10	2525	881.5	LTE B5	5	2425	871.5	-	-	-	23.88	23.94
CA 5A-46A-66C	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B5	10	2525	881.5	LTE B5	5	2425	871.5	-	-	-	23.87	23.96
CA 13A-46D-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.87	23.96
CA 13A-46A-46C-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.86	23.96
CA 13A-46C-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B13	10	5230	751	LTE B46	20	50906	5037.5	-	-	-	23.88	23.96
CA 2A-13A-46A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B13	10	5230	751	LTE B46	20	50906	5037.5	-	-	-	23.79	23.96
CA 2A-2A-13A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	23.79	23.96
CA 2A-2A-13A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	23.79	23.96
CA 2A-2A-5A-66B	LTE B66	5	131997	1712.5	QPSK	1	12	66461	2112.5	LTE B66	15	46554	2121.8	LTE B2	10	500	1960	LTE B5	10	2525	881.5	-	-	-	23.97	23.94
CA 2A-66A-46C-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	23.80	23.96
CA 2A-66A-46C-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	23.86	23.96
CA 2A-66A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	23.87	23.96
CA 2A-66A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	23.86	23.96
CA 2A-66A-71A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	10	47125	722.5	-	-	-	-	-	-	-	23.79	23.96
CA 2A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B66	20	50660	5037.5	LTE B46	20	50906	5037.5	-	-	-	23.84	23.96
CA 46C-46A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B46	20	50660	5037.5	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.80	23.96
CA 46C-46A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.86	23.96
CA 46A-46A-66A-66A	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	50636	2120	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.86	23.96
CA 46A-46A-66B	LTE B66	20	135272	1770	QPSK	1	12	66461	2112.5	LTE B66	15	46554	2121.8	LTE B46	20	50906	5037.5	LTE B46	20	50947	5037.7	-	-	-	23.80	23.96
CA 46A-46A-66C	LTE B66	20	135272	1770	QPSK	1	0	67036	2170	LTE B66	20	506														

J.3 DL CA 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 J.1 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.

J.3.1 LTE 4x4 MIMO DL Standalone Powers

Table J-9
Maximum Output Powers

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]
5	1.4	20525	836.5	QPSK	1	2	24.07	24.16	24.0
66	1.4	132665	1779.3	QPSK	1	2	23.84	24.07	24.0
41	10	41055	2636.5	QPSK	1	25	24.31	24.28	24.0
48	10	56690	3695	QPSK	1	49	24.14	24.41	24.0

J.3.1 LTE Band 71 as PCC

Table J-10
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.	Power	
						PCC UL RB	PCC UL RB Offset	PCC [DL] Freq. [MHz]	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]		LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [4A]-[4A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	2x2	-	-	-	-	-	23.99	24.09
CA [4A]-[4A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	-	-	-	-	-	23.99	24.09
CA [2A]-[2A]-[4A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	2x2	23.98	24.09
CA [2A]-[2A]-[4A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	2x2	23.98	24.09
CA [2A]-[2A]-[4A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	23.97	24.09
CA [2A]-[2A]-[4A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	4x4	23.96	24.09
CA [2A]-[2A]-[4A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B6	20	66786	2145	2x2	23.96	24.09
CA [2A]-[2A]-[6A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B6	20	66786	2145	2x2	23.93	24.09
CA [2A]-[2A]-[6A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B6	20	66786	2145	4x4	23.98	24.09
CA [2A]-[2A]-[6A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B6	20	66786	2145	4x4	23.97	24.09
CA [2A]-[2A]-[6A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B6	20	66786	2145	4x4	23.98	24.09
CA [2A]-[6A]-[6A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B6	20	66786	2145	2x2	LTE B6	20	67236	2190	2x2	23.96	24.09
CA [2A]-[6A]-[6A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B6	20	66786	2145	4x4	LTE B6	20	67236	2190	2x2	23.97	24.09
CA [2A]-[6A]-[6A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B6	20	66786	2145	4x4	LTE B6	20	67236	2190	4x4	23.96	24.09
CA [2A]-[6A]-[6A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B6	20	66786	2145	4x4	LTE B6	20	67236	2190	2x2	24.27	24.09
CA [2A]-[6A]-[6A]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B6	20	66786	2145	4x4	LTE B6	20	67236	2190	4x4	23.92	24.09
CA [2A]-[6C]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B6	20	66786	2145	2x2	LTE B6	20	66884	2164.8	2x2	23.90	24.09
CA [2A]-[6C]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B6	20	66786	2145	4x4	LTE B6	20	66884	2164.8	4x4	23.95	24.09
CA [2A]-[6C]-71A	LTE B71	10	133297	680.5	QPSK	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B6	20	66786	2145	4x4	LTE B6	20	66884	2164.8	4x4	23.90	24.09

FCC ID PY7-57325M	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 6 of 11

J.3.2 LTE Band 12 as PCC

Table J-11
Maximum Output Powers

Combination		Mod										SSC 1				SSC 2				SSC 3				SSC 4				Power						
		PCB Band	PCB BW [MHz]	PCF [kHz]	PCF [Mod. Freq.]	Mod.	PCU PUL RB	PCU RB Offset	PCU [DL] Ch.	PCU [UL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [UL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [UL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [UL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [UL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA	LTE Single Carrier Tx Power (dBm)	
CA 12A (64A) (1)	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (64A) (2)	LTE B12	5	2000	70.5	OPK	1	7	5035	730.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (2) (1)	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 16A (1A) (1)	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B4	20	217.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 16A (1A) (2)	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B4	20	217.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (16A) (1)	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (16A) (2)	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20	713.5	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 12A (4A) 12A	LTE B12	5	2000	70.5	OPK	1	12	5035	731.5	2x2	LTE B12	20																						

J.3.3 LTE Band 13 as PCC

Table J-12
Maximum Output Powers

[illegible]

FCC ID PY7-57325M

SAR EVALUATION REPORT

DUT Type:
Portable Handset

Approved by:
Technical Manager

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J.3.4 LTE Band 5 as PCC

Table J-13
Maximum Output Powers

[illegible]

FCC ID PY7-57325M	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 8 of 11

J.3.5 LTE Band 66 as PCC

Table J-14
Maximum Output Powers

[illegible]

FCC ID PY7-57325M

SAR EVALUATION REPORT

DUT Type:
Portable Handset

Approved by:

Technical Manager

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Table J-15
Maximum Output Powers (continued)

[illegible]

FCC ID PY7-57325M	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 10 of 11

Maximum Output Powers (continued)

Combination	PCC Band	PCC BW [MHz]	PCC				SCC1				SCC2				SCC3				SCC4				SCC5				Tx Power [dBm]	Tx Power Single Tone [dBm]									
			PCC (IS) Ch	PCC (IS) Freq [MHz]	PCC PUSCH RB	PCC IS Offset	PCC (IS) Ch	PCC (IS) Freq [MHz]	IS Ant. Config.	SCC Band	SCC BW [MHz]	SCC (IS) Ch	SCC (IS) Freq [MHz]	IS Ant. Config.	SCC Band	SCC BW [MHz]	SCC (IS) Ch	SCC (IS) Freq [MHz]	IS Ant. Config.	SCC Band	SCC BW [MHz]	SCC (IS) Ch	SCC (IS) Freq [MHz]	IS Ant. Config.	SCC Band	SCC BW [MHz]			SCC (IS) Ch	SCC (IS) Freq [MHz]	IS Ant. Config.						
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	2x2	LTE-B40	10	56100	8640	2x2	LTE-B40	10	56300	8660	2x2	21.07	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	2x2	LTE-B40	10	56100	8640	2x2	LTE-B40	10	56300	8660	2x2	21.08	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.09	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.10	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.11	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.12	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.13	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.14	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.15	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.16	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.17	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.18	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.19	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.20	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.21	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.22	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.23	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.24	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.25	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.26	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.27	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.28	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.29	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.30	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.31	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.32	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.33	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.34	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.35	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.36	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.37	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.38	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.39	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.40	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	55990	8620	4x4	LTE-B40	10	56100	8640	4x4	LTE-B40	10	56300	8660	4x4	21.41	21.06
CA 13A-400 (60A)	LTE-B36	20	152922	1770	QPSK	1	0	E3338	2130	44A	LTE-B36	20	65530	2120	2x2	LTE-B37	10	5230	F11	2x2	LTE-B36	10	559														

J.3.6 LTE Band 41 as PCC

Maximum Output Powers

Combination	PCC											SSC 1				SSC 2				SSC 3				SSC 4				Power				
	PCC Band	PCC BW [MHz]	PCC [DL/UL]	PCC [Hz]	PCC [Hz]	PCC [Hz]	PCC [Hz]	PCC [Hz]	PCC [Hz]	PCC [Hz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL/UL]	SSC [Hz]	SSC [Hz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL/UL]	SSC [Hz]	SSC [Hz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL/UL]	SSC [Hz]	SSC [Hz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA F4A1-A6A	LTE-B40	10	420555	2636.5	OPSK	1	25	420555	2636.5	64QAM	4x4	LTE-B40	20	50665	5537.3	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	24.29	24.28	
CA F4A1-C1	LTE-B40	10	420555	2636.5	OPSK	1	25	420555	2636.5	64QAM	4x4	LTE-B40	20	40911	5622.1	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	24.33	24.28	
CA F4A1-A6C	LTE-B40	10	420555	2636.5	OPSK	1	25	420555	2636.5	64QAM	4x4	LTE-B40	20	50665	5537.3	2x2	LTE-B40	20	50467	5537.3	2x2	-	-	-	-	-	-	-	-	24.35	24.28	
CA F4A1-C1C	LTE-B40	10	420555	2636.5	OPSK	1	25	420555	2636.5	64QAM	4x4	LTE-B40	20	40911	5622.1	4x4	LTE-B40	20	40911	5622.1	4x4	-	-	-	-	-	-	-	-	24.35	24.28	
CA F4A1-A6D	LTE-B40	10	420555	2636.5	OPSK	1	25	420555	2636.5	64QAM	4x4	LTE-B40	20	50665	5537.3	2x2	LTE-B40	20	50467	5537.3	2x2	-	-	-	-	-	-	-	-	24.38	24.28	
CA F4A1-A6E	LTE-B40	10	420555	2636.5	OPSK	1	25	420555	2636.5	64QAM	4x4	LTE-B40	20	50665	5537.3	2x2	LTE-B40	20	50467	5537.3	2x2	LTE-B40	20	50665	5537.3	2x2	-	-	-	-	24.36	24.28

J.3.1 LTE Band 48 as PCC

PCC														SSC 1				SSC 2				SSC 3				SSC 4				Power	
Combination	PCC Band	PCC BW [MHz]	PCC [CU] Freq. [MHz]	OPK	PCC CU RB	PCC CU RB Offset	PCC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with CA Enabled	LTE Single Carrier Tx Power (dBm)					
CA (A4A) (A4A)	LTE B40	20	5660	30PS	Mod.	1	5660	3695 4x4	LTE B40	20	5530	3560 4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CA (A4A) (A4A)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CA (A4A) (A4A)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 4x4	LTE B40	20	5558	3579.8 2x2	-	-	-	-	-	-	-	-	-	-	-				
CA (A4A) (A4C)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 2x2	LTE B40	20	5558	3579.8 4x4	-	-	-	-	-	-	-	-	-	-	-				
CA (A4A) (A4C)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 4x4	LTE B40	20	5558	3579.8 2x2	-	-	-	-	-	-	-	-	-	-	-				
CA (A4A) (A4C)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 4x4	LTE B40	20	5558	3579.8 4x4	-	-	-	-	-	-	-	-	-	-	-				
CA (A4C) (A4A)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CA (A4C) (A4C)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 2x2	LTE B40	20	5558	3579.8 2x2	-	-	-	-	-	-	-	-	-	-	-				
CA (A4C) (A4C)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 4x4	LTE B40	20	5558	3579.8 4x4	-	-	-	-	-	-	-	-	-	-	-				
CA (A4A) (A4B)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 2x2	LTE B40	20	5558	3579.8 2x2	LTE B40	20	5578	3599.6 2x2	-	-	-	-	-	-	-				
CA (A4A) (A4B)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 4x4	LTE B40	20	5558	3579.8 4x4	-	-	-	-	-	-	-	-	-	-	-				
CA (A4A) (A4B)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 4x4	LTE B40	20	5558	3579.8 4x4	-	-	-	-	-	-	-	-	-	-	-				
CA (A4A) (A4B)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 4x4	LTE B40	20	5558	3579.8 4x4	-	-	-	-	-	-	-	-	-	-	-				
CA (A4C) (A4B)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CA (A4C) (A4B)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 4x4	LTE B40	20	5558	3579.8 4x4	-	-	-	-	-	-	-	-	-	-	-				
CA (A4A) (A4E)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 2x2	LTE B40	20	5558	3579.8 2x2	LTE B40	20	5578	3599.6 2x2	LTE B40	20	5594	3619.4 2x2	-	-	-				
CA (A4A) (A4E)	LTE B40	20	5660	30PS	OPK	1	5660	3695 4x4	LTE B40	20	5530	3560 4x4	LTE B40	20	5558	3579.8 4x4	-	-	-	-	-	-	-	-	-	-	-				

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DUT Type: Portable Handset		APPENDIX J: Page 11 of 11