

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 the RF Conducted Powers Section and LTE/NR Lower Bandwidth RF Conducted Power Appendix. 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.

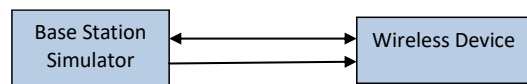


Figure I-1
DL CA Power Measurement Setup

FCC ID: A3LSMF731U	SAR EVALUATION REPORT	Approved by: Technical Manager
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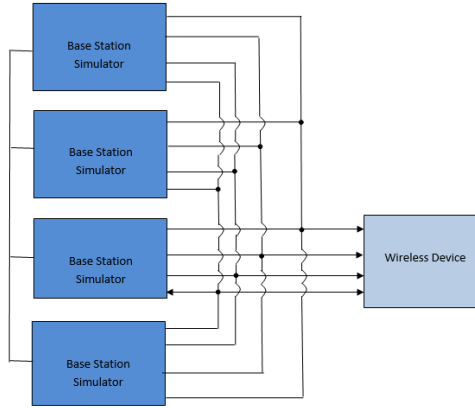


Figure I-2
DL CA with DL 4x4 MIMO Power Measurement Setup

I.2 Downlink Carrier Aggregation RF Conducted Powers

I.2.1 LTE Band 71 as PCC

Table I-3
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Channel	PCC [UL] Freq. [MHz]	Modulation	PCC		PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC 1				SCC 2				SCC 3				LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
						UL RB	UL RB Offset			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 4A-4A-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	-	-	-	-	25.25	25.28
CA 4B4-4B4-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	LTE B4B	20	55990	3625	LTE B4B	20	56640	3690	-	-	-	-	25.27	25.28
CA 4B4-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	-	-	-	-	25.24	25.28
CA 2A-2A-4A-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	LTE B2	20	900	1990	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	25.17	25.28
CA 2A-2A-6B4-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	LTE B2	20	900	1990	LTE B2	20	700	1940	LTE B6B	20	66786	2145	25.17	25.28
CA 2A-6B4-6B4-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	LTE B2	20	900	1990	LTE B6B	20	66786	2145	LTE B6B	20	67236	2190	25.15	25.28
CA 2A-6B4-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	LTE B2	20	900	1990	LTE B6B	20	66786	2145	LTE B6B	20	66984	2164.8	25.18	25.28

I.2.2 LTE Band 12 as PCC

Table I-4
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC		PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC 1				SCC 2				SCC 3				LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
						UL RB	UL RB Offset			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-12A (1)	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B2	20	900	1990	-	-	-	-	-	-	-	-	24.34	24.58
CA 4A-12A (1)	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	24.33	24.58
CA 4A-12A (2)	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	24.31	24.58
CA 12A-2A	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B2S	20	8365	1902.5	-	-	-	-	-	-	-	-	24.34	24.58
CA 12A-6B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B4B	20	55990	3637.5	-	-	-	-	-	-	-	-	24.35	24.58
CA 12A-6B4 (1)	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B4B	20	55990	3637.5	-	-	-	-	-	-	-	-	24.48	24.58
CA 12A-6B4 (2)	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B6B	20	66786	2145	-	-	-	-	-	-	-	-	24.33	24.58
CA 12A-4B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B4B	20	55990	3637.5	-	-	-	-	-	-	-	-	24.46	24.58
CA 12A-4B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B4B	20	55990	3637.5	LTE B4B	20	55987	3637.7	-	-	-	-	24.48	24.58
CA 2A-4A-12A	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B2	20	900	1990	LTE B4	20	2175	2132.5	-	-	-	-	24.51	24.58
CA 2A-4A-4B-12A	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B2	20	900	1990	LTE B4	20	2175	2132.5	LTE B4	20	2190	2150	24.47	24.58
CA 2A-4A-12B	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B12	5	5047	732.7	LTE B2	20	900	1990	LTE B4	20	2175	2132.5	24.41	24.58
CA 2A-12A-6B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B2	20	900	1990	LTE B4B	20	55990	3637.5	LTE B6B	20	66786	2145	24.50	24.58
CA 4A-4A-12B	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B12	5	5047	732.7	LTE B4	20	2175	2132.5	LTE B4	20	2250	2150	24.44	24.58
CA 12A-4B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B4B	20	55990	3637.5	LTE B4B	20	55987	3637.7	LTE B4B	20	55983	3637.3	24.54	24.58
CA 12A-4B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B4B	20	55990	3637.5	LTE B4B	20	56288	3644.8	LTE B4B	20	56288	3644.8	24.79	24.58
CA 2A-2A-12A-30A-6B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B2	20	900	1990	LTE B2	20	700	1940	LTE B30	10	3620	2355	23.61	24.58
CA 2A-2A-12A-6B4-6B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B2	20	900	1990	LTE B6B	20	66786	2145	LTE B6B	20	67236	2190	24.44	24.58
CA 2A-2A-12B-6B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B12	5	5047	732.7	LTE B2	20	900	1990	LTE B6B	20	66786	2145	24.67	24.58
CA 12A-12A-6B4-6B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B2	20	900	1990	LTE B30	10	3620	2355	LTE B6B	20	66786	2145	24.60	24.58
CA 2A-12A-30A-6B4-6B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B12	5	5047	732.7	LTE B2	20	900	1990	LTE B6B	20	66786	2145	24.78	24.58
CA 12A-4B4	LTE B12	5	23095	707.5	QPSK	1	12	5095	737.5	LTE B4B	20	55990	3637.5	LTE B4B	20	55987	3637.7	LTE B4B	20	55983	3637.3	24.59	24.58

I.2.3 LTE Band 13 as PCC

Table I-5
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC		PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC 1				SCC 2				SCC 3				LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
						UL RB	UL RB Offset			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 13A-6B4	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B4B	20	55990	3637.5	-	-	-	-	-	-	-	-	24.74	24.73
CA 2A-4A-13A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1990	LTE B4	20	2175	2132.5	-	-	-	-	24.53	24.66
CA 4A-4A-13A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	LTE B4	20	2250	2150	-	-	-	-	24.51	24.66
CA 13A-6B4-6B4	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B4B	20	55990	3637.5	LTE B4B	20	55990	3637.5	-	-	-	-	24.67	24.73
CA 2A-7A-7A-13A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1990	LTE B7	20	3100	2655	LTE B7	20	2850	2630	24.76	24.73
CA 2A-7A-13A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1990	LTE B7	20	3100	2655	LTE B7	20	2850	2630	24.76	24.73
CA 2A-13A-6B4	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B4B	20	55990	3637.5	LTE B4B	20	55990	3637.5	-	-	-	-	24.81	24.73
CA 2A-13A-6B4-6B4	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B4B	20	55990	3637.5	LTE B4B	20	55990	3637.5	-	-	-	-	24.82	24.73
CA 2A-13A-6B4	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1990	LTE B6B	20	66786	2145	LTE B6B	20	66978	2164.8	24.76	24.73
CA 2A-13A-6B4	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1990	LTE B6B	20	66786	2145	LTE B6B	20	66978	2164.8	24.76	24.73
CA 2A-13A-6B4-6B4	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1990	LTE B6B	20	66786	2145	LTE B6B	20	66978	2164.8	24.81	24.73
CA 2A-13A-4B4-6B4	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1990	LTE B4B	20	55990	3637.5	LTE B4B	20	56188	3644.8	24.62	24.73
CA 2A-13A-4B4	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1990	LTE B4B	20	55990	3637.5	LTE B4B	20	56188	3644.8	24.67	24.73
CA 13A-4B4-6B4	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B4B	20	55990	3637.5	LTE B4B	20	56188	3644.8	LTE B4B	20	56188	3644.8	24.69	24.73
CA 13A-4B4	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B4B	20	55990	3637.5	LTE B4B	20	56188	3644.8	LTE B4B	20	56188	3644.8	24.73	24.73

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Technical Manager

DUT Type:
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I.2.1 LTE Band 14 as PCC

Table I-6
Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1 Band	SCC 1 BW [MHz]	SCC 1 (DL) Channel	SCC 1 (DL) Freq. [MHz]	SCC 2 Band	SCC 2 BW [MHz]	SCC 2 (DL) Channel	SCC 2 (DL) Freq. [MHz]	SCC 3 Band	SCC 3 BW [MHz]	SCC 3 (DL) Channel	SCC 3 (DL) Freq. [MHz]	SCC 4 Band	SCC 4 BW [MHz]	SCC 4 (DL) Channel	SCC 4 (DL) Freq. [MHz]	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-2A-2AA-2BA-2BA	LTE E14	5	21330	793	QPSK	1	0	5330	1862	20	800	1560	LTE B52	20	700	1440	LTE B36-10	10	6250	2515	LTE B66	20	62736	2145	62736	2145	24.3	24.48
CA 2A-2A-2A-2AA-2BA-2BA	LTE E14	5	21330	793	QPSK	1	0	5330	1862	20	800	1560	LTE B52	20	700	1440	LTE B36	20	62736	2145	LTE B66	20	62736	2145	62736	2145	24.3	24.48
CA 2A-2A-2A-2AA-2BA	LTE E14	5	21330	793	QPSK	1	0	5330	1862	20	800	1560	LTE B52	20	700	1440	LTE B36	20	62736	2145	LTE B66	20	62736	2145	62736	2145	24.3	24.48

I.2.2 LTE Band 5 as PCC

Table I-7
Maximum Output Powers

[illegible]

I.2.3 LTE Band 66 as PCC

Table I-8
Maximum Output Powers

[illegible]

I.2.4 LTE Band 25 as PCC

Table I-9
Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				SCC 3				Power	
	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 (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 5A-25A	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	LTE B18	10	2525	881.5	-	-	-	-	-	-	-	25.01	25.12		
CA 12A-25A	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	LTE B12	10	5095	727.5	-	-	-	-	-	-	-	25.02	25.12		
CA 25A-25A (1)	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	LTE B18	10	3445	885.5	-	-	-	-	-	-	-	25.02	25.12		
CA 25A-41A	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	24.97	25.12		
CA 25A-41C	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	25.08	25.12		
CA 25A-51C	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	LTE B41	20	40510	2613.9	25.08	25.12	

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Approved by:

Technical Manager

DUT Type:
Portable Handset

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I.2.5 LTE Band 30 as PCC

Table I-10
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power			
				Modulation	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 CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 29A-30A-66A-66A	LTE E30	10	27710	2310	QPSK	1	25	9820	2355	LTE B29	20	9715	722.5	LTE B95	20	66785	2145	LTE B95	20	67236	2190	-	-	-	-	23.48	23.52
CA 2A-2A-5A-30A-66A	LTE E30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	LTE B95	20	66785	2145	23.44	23.52
CA 2A-2A-12A-30A-66A	LTE E30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5305	717.5	LTE B95	20	66785	2145	23.47	23.52
CA 2A-2A-14A-30A-66A	LTE E30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B14	10	5330	763	LTE B95	20	66785	2145	23.40	23.52
CA 2A-2A-3A-30A-66A-66A	LTE E30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B95	20	66785	2145	LTE B95	20	67236	2190	23.37	23.52
CA 2A-12A-30A-66A-66A	LTE E30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B12	10	5305	717.5	LTE B95	20	66785	2145	LTE B95	20	67236	2190	23.39	23.52
CA 2A-14A-30A-66A-66A	LTE E30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B95	20	66785	2145	LTE B95	20	67236	2190	23.40	23.52
CA 2A-2A-29A-30A-66A	LTE E30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	9715	722.5	LTE B95	20	66785	2145	23.36	23.52

I.2.1 LTE Band 7 as PCC

Table I-11
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC				SCC 1				SCC 2				SCC 3				Power				
				PCC (UL) Freq. [MHz]	Modulation	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-7A-7A-13A	LTE B7	5	20775	2502.5	QPSK	1	12	2775	2622.5	LTE B7	20	3360	2680	LTE B2	20	900	1960	LTE B13	10	5230	751	-	24.22	24.47
CA 2A-7A-7A-66A	LTE B7	5	20775	2502.5	QPSK	1	12	2775	2622.5	LTE B7	20	3360	2680	LTE B2	20	900	1960	LTE B66	20	66786	2145	-	24.24	24.47
CA 2A-7A-13A	LTE B7	20	20850	2510	QPSK	1	50	2850	2630	LTE B7	20	3048	2649.8	LTE B2	20	900	1960	LTE B13	10	5230	751	-	24.29	24.41
CA 2A-7C-66A	LTE B7	20	20850	2510	QPSK	1	50	2850	2630	LTE B7	20	3048	2649.8	LTE B2	20	900	1960	LTE B66	20	66786	2145	-	24.30	24.41

I.2.2 LTE Band 41 as PCC

Table I-12
Maximum Output Powers

Combination	PCC									SCC 1			SCC 2			Power			
	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 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 41A-41A (1)	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	LTE B41	20	39750	2506	-	-	-	-	24.54	24.54
CA 41A-41C	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	24.44	24.54
CA 41C-41A	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	LTE B41	20	40011	2622.1	LTE B41	20	39750	2506	24.47	24.54
CA 41D	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	LTE B41	20	40011	2622.1	LTE B41	20	40713	2602.3	24.48	24.54

I.2.3 LTE Band 48 as PCC

Table I-13
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				SCC 4				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]	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	55340	3560	64QAM	1	50	55340	3560	LTE B48	20	55640	3690	-	-	-	-	-	-	-	-	-	-	-	-	20.12	20.21
CA 48A-48C	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	LTE B48	20	55640	3690	LTE B48	20	55442	3670.2	-	-	-	-	-	-	-	-	20.09	20.21
CA 48C-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55640	3690	-	-	-	-	-	-	-	-	20.07	20.21
CA 48A-48D	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	LTE B48	20	55640	3690	LTE B48	20	55442	3670.2	LTE B48	20	55244	3650.4	-	-	-	-	20.20	20.21
CA 48D-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55736	3599.6	LTE B48	20	55640	3690	-	-	-	-	20.21	20.21
CA 48C-48C	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55640	3690	LTE B48	20	55442	3670.2	-	-	-	-	20.22	20.21
CA 48A-48E	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	LTE B48	20	55640	3690	LTE B48	20	55442	3670.2	LTE B48	20	55244	3650.4	LTE B48	20	55640	3690	20.21	20.21
CA 48E-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55736	3599.6	LTE B48	20	55340	3619.4	LTE B48	20	55640	3690	20.23	20.21
CA 48C-48D	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55640	3690	LTE B48	20	55442	3670.2	LTE B48	20	55442	3650.4	20.20	20.23
CA 48D-48C	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55736	3599.6	LTE B48	20	55640	3690	LTE B48	20	56442	3670.2	20.21	20.21
CA 48F	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55736	3599.6	LTE B48	20	55934	3619.4	LTE B48	20	56142	3699.2	20.20	20.21

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I.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 I.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.

I.3.1 LTE 4x4 MIMO DL Standalone Powers

Table I-14
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]
66	10	132022	1715	QPSK	1	0	25.35	25.35	25.3
25	5	26665	1912.5	QPSK	1	12	25.10	25.12	25.3
30	10	27710	2310	QPSK	1	25	23.46	23.52	24.0
41	10	41055	2636.5	QPSK	1	25	24.51	24.54	25.0
48	20	55340	3560	64QAM	1	50	20.11	20.21	20.5

I.3.2 LTE Band 71 as PCC

Table I-15
Maximum Output Powers

Combination	PCC										SCC 1										SCC 2										SCC 3										Power				
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] 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.	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.	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)												
CA [4A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.11	25.28					
CA [4A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.11	25.28			
CA [4A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2350	2150	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.24	25.28	
CA [4A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2350	2150	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.24	25.28	
CA [4A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2350	2150	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.24	25.28	
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.39	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.39	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.37	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.38	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.38	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.39	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.40	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.41	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.40	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.39	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.40	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.37	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.40	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.38	25.28
CA [2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	50	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.38	25.28

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I.3.3 LTE Band 12 as PCC

Table I-16
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] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC 1	SCC 2	SCC 3	SCC 4	Power		
			[MHz]	[Ch.]	[MHz]				[Ch.]	[MHz]		[DL] Ch.	[DL] Freq. [MHz]	[DL] Ch.	[DL] Freq. [MHz]	[DL] Ch.	UL Tx Power (Emission)	LTE Single Carrier Tx Power (dBm)
CA (A1-A12) (1)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B82	20	900	1960	4x4	24.67	24.58
CA (A1-A12) (2)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B82	20	900	1960	4x4	24.67	24.58
CA (A4-A12) (1)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B82	20	900	1960	4x4	24.60	24.50
CA (A4-A12) (2)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B82	20	900	1960	4x4	24.60	24.50
CA (A12-A16A) (1)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B48	20	5090	3625	4x4	24.58	24.50
CA (A12-A16A) (2)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B48	20	5090	3625	4x4	24.58	24.50
CA (A12-A16A) (3)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (4)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (5)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (6)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (7)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (8)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (9)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (10)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (11)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (12)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (13)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (14)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (15)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (16)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (17)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (18)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (19)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (20)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (21)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (22)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (23)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (24)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (25)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (26)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (27)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (28)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (29)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (30)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (31)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (32)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (33)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (34)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (35)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (36)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (37)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (38)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (39)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (40)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (41)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (42)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (43)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (44)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (45)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (46)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (47)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (48)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (49)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (50)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (51)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (52)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (53)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (54)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (55)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (56)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (57)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (58)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (59)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (60)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (61)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (62)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (63)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	20	8678	2145	4x4	24.58	24.50
CA (A12-A16A) (64)	LTE B12	2	23095	707.5	7375.5	QPSK	1	12	5095	7375.5	2x2	LTE B86	2					

I.3.4 LTE Band 13 as PCC

Table I-17
Maximum Output Powers

[illegible]

ECC ID: A3I SME731U

SAR EVALUATION REPORT

Approved by:
Technical Manager

DUT Type:
Portable Handset

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I.3.8 LTE Band 25 as PCC

Table I-21
Maximum Output Powers

Combination	PCC Band	PCC										SSC 1				SSC 2				SSC 3				Power			
		PCC BW [MHz]	PCC Ch. [Freq. MHz]	Mod.	PCC ULs Rb	PCC ULs RB Offset	PCC Ch. [Ch.]	PCC (DL) Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC Ch. [Ch.]	SSC (DL) Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC Ch. [Ch.]	SSC (DL) Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC Ch. [Ch.]	SSC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 5A+(25A)	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	4x4	LTE B5	10	2525	881.5	2x2	-	-	-	-	-	-	-	-	-	-	25.08	25.12
CA 12A+(25A)	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	25.07	25.12
CA 25A+(41C)	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	2x2	LTE B41	20	4042	2573.2	4x4	LTE B41	20	4042	2573.2	4x4	-	-	-	-	-	25.10	25.12
CA 25A+(41C)	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	4x4	LTE B41	20	40620	2593	2x2	LTE B41	20	4042	2573.2	2x2	-	-	-	-	-	25.14	25.12
CA 25A+(41C)	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	4042	2573.2	4x4	-	-	-	-	-	25.14	25.12
CA 25A+(41C)	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	2x2	LTE B41	20	4042	2573.2	4x4	LTE B41	20	4042	2593	4x4	LTE B41	20	40818	2612.8	4x4	25.05	25.12
CA 25A+(41C)	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	4x4	LTE B41	20	4042	2573.2	2x2	LTE B41	20	40818	2612.8	2x2	LTE B41	20	40818	2612.8	4x4	25.09	25.12
CA 25A+(41C)	LTE B25	5	26665	1912.5	QPSK	1	12	8665	1992.5	4x4	LTE B41	20	4042	2573.2	4x4	LTE B41	20	40818	2612.8	4x4	LTE B41	20	40818	2612.8	4x4	25.09	25.12

I.3.9 LTE Band 30 as PCC

Table I-22
Maximum Output Powers

[illegible]

I.3.10 LTE Band 41 as PCC

Table I-23
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC						SSC 1				SSC 2				Power				
				PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with LA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [4A]-[4A] (1)	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	4x4	LTE B41	20	39750	2506	2x2	-	-	-	-	-	24.50	24.54
CA [4A]-[4A] (2)	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	2x2	LTE B41	20	39750	2506	4x4	-	-	-	-	-	24.60	24.54
CA [4A]-[4A] (3)	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	2x2	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	24.61	24.54
CA [41C]-[41A]	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	4x4	LTE B41	20	40911	2622.1	4x4	LTE B41	20	39750	2506	2x2	24.61	24.54
CA [41A]-[41C]	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	4x4	LTE B41	20	39948	2525.8	2x2	LTE B41	20	39750	2506	2x2	24.59	24.54
CA [41C]-[41A]	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	2x2	LTE B41	20	40911	2622.1	2x2	LTE B41	20	39750	2506	4x4	24.60	24.54
CA [41A]-[41C]	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	4x4	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	24.57	24.54
CA [41A]	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	4x4	LTE B41	20	40911	2622.1	4x4	LTE B41	20	39750	2506	4x4	24.53	24.54
CA [41D]	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	4x4	LTE B41	20	40911	2622.1	4x4	LTE B41	20	40713	7692.3	4x4	24.53	24.54

FCC ID: A3LSMF731U

DUT Type:
Portable Handset

SAR EVALUATION REPORT

Approved by:
Technical Manager

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I.3.11 LTE Band 48 as PCC

Table I-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.	Power		
							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]		LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 48A-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	56640	3690	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.18	20.21		
CA 48A-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	56640	3690	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.22	20.21	
CA 48A-48C	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	56640	3690	4x4	LTE B48	20	56442	3670.2	4x4	-	-	-	-	-	-	-	-	-	-	-	20.17	20.21	
CA 48C-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	55538	3579.8	4x4	LTE B48	20	56640	3690	2x2	-	-	-	-	-	-	-	-	-	-	-	20.14	20.21	
CA 48A-48C	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	56640	3690	2x2	LTE B48	20	56442	3670.2	2x2	LTE B48	20	56442	3670.2	2x2	-	-	-	-	-	-	20.18	20.21	
CA 48C-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	55538	3579.8	2x2	LTE B48	20	56640	3690	4x4	-	-	-	-	-	-	-	-	-	-	-	20.19	20.21	
CA 48A-48C	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	56640	3690	4x4	LTE B48	20	56442	3670.2	4x4	-	-	-	-	-	-	-	-	-	-	-	20.20	20.21	
CA 48C-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	55538	3579.8	4x4	LTE B48	20	56640	3690	4x4	-	-	-	-	-	-	-	-	-	-	-	20.19	20.21	
CA 48A-48D	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	56640	3690	4x4	LTE B48	20	56442	3670.2	4x4	LTE B48	20	56244	3650.4	4x4	-	-	-	-	-	-	20.20	20.21	
CA 48D-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	55538	3579.8	4x4	LTE B48	20	55736	3599.6	4x4	LTE B48	20	56840	3690	2x2	-	-	-	-	-	-	20.18	20.21	
CA 48A-48D	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	56640	3690	2x2	LTE B48	20	56442	3670.2	2x2	LTE B48	20	56244	3650.4	2x2	-	-	-	-	-	-	20.15	20.21	
CA 48D-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	55538	3579.8	2x2	LTE B48	20	55736	3599.6	2x2	LTE B48	20	56840	3690	4x4	-	-	-	-	-	-	20.22	20.21	
CA 48A-48D	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	56640	3690	4x4	LTE B48	20	56442	3670.2	4x4	LTE B48	20	56244	3650.4	4x4	-	-	-	-	-	-	20.13	20.21	
CA 48D-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	55538	3579.8	4x4	LTE B48	20	55736	3599.6	4x4	LTE B48	20	56840	3690	4x4	-	-	-	-	-	-	20.17	20.21	
CA 48C-48C	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	55538	3579.8	2x2	LTE B48	20	56640	3690	4x4	LTE B48	20	56442	3670.2	4x4	-	-	-	-	-	-	20.21	20.21	
CA 48C-48C	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	55538	3579.8	4x4	LTE B48	20	56640	3690	4x4	LTE B48	20	56442	3670.2	4x4	-	-	-	-	-	-	20.15	20.21	
CA 48C-48C	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	56640	3690	4x4	LTE B48	20	56442	3670.2	4x4	LTE B48	20	56244	3650.4	4x4	-	-	-	-	-	-	20.12	20.21	
CA 48A-48E	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	56640	3690	4x4	LTE B48	20	56442	3670.2	4x4	LTE B48	20	56244	3650.4	4x4	-	-	-	-	-	-	20.19	20.21	
CA 48E-48A	LTE B48	20	55340	3560	64QAM	1	90	55340	3560	4x4	LTE B48	20	55538	3579.8	4x4	LTE B48	20	55736	3599.6	4x4	LTE B48	20	55934	3619.4	4x4	LTE B48	20	56048	3630.6	2x2	-	-	20.17	20.21
CA 48A-48E	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	56640	3690	2x2	LTE B48	20	56442	3670.2	2x2	LTE B48	20	56244	3650.4	2x2	LTE B48	20	56048	3630.6	2x2	-	-	20.18	20.21
CA 48E-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	55538	3579.8	2x2	LTE B48	20	55736	3599.6	2x2	LTE B48	20	55934	3619.4	2x2	LTE B48	20	56048	3630.6	4x4	-	-	20.21	20.21
CA 48A-48E	LTE B48	20	55340	3560	64QAM	1	90	55340	3560	4x4	LTE B48	20	56640	3690	4x4	LTE B48	20	56442	3670.2	4x4	LTE B48	20	56244	3650.4	4x4	LTE B48	20	56048	3630.6	4x4	-	-	20.20	20.21
CA 48E-48A	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	55538	3579.8	2x2	LTE B48	20	55736	3599.6	4x4	LTE B48	20	55934	3619.4	4x4	LTE B48	20	56048	3630.6	4x4	-	-	20.17	20.21
CA 48C-48D	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	2x2	LTE B48	20	55538	3579.8	2x2	LTE B48	20	56640	3690	4x4	LTE B48	20	56442	3670.2	4x4	LTE B48	20	56244	3650.4	4x4	-	-	20.22	20.21
CA 48D-48C	LTE B48	20	55340	3560	64QAM	1	90	55340	3560	4x4	LTE B48	20	55538	3579.8	4x4	LTE B48	20	55736	3599.6	4x4	LTE B48	20	55934	3619.4	4x4	LTE B48	20	56048	3630.6	2x2	-	-	20.16	20.21
CA 48C-48D	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	55538	3579.8	4x4	LTE B48	20	56640	3690	2x2	LTE B48	20	56442	3670.2	2x2	LTE B48	20	56244	3650.4	2x2	-	-	20.19	20.21
CA 48D-48C	LTE B48	20	55340	3560	64QAM	1	90	55340	3560	2x2	LTE B48	20	55538	3579.8	2x2	LTE B48	20	55736	3599.6	2x2	LTE B48	20	55934	3619.4	2x2	LTE B48	20	56048	3630.6	4x4	-	-	20.18	20.21
CA 48C-48D	LTE B48	20	55340	3560	64QAM	1	90	55340	3560	4x4	LTE B48	20	55538	3579.8	4x4	LTE B48	20	56640	3690	4x4	LTE B48	20	56442	3670.2	4x4	LTE B48	20	56244	3650.4	4x4	-	-	20.17	20.21
CA 48D-48C	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	55538	3579.8	4x4	LTE B48	20	55736	3599.6	4x4	LTE B48	20	55934	3619.4	4x4	LTE B48	20	56048	3630.6	4x4	-	-	20.18	20.21
CA 48E-48E	LTE B48	20	55340	3560	64QAM	1	50	55340	3560	4x4	LTE B48	20	55538	3579.8	4x4	LTE B48	20	55736	3599.6	4x4	LTE B48	20	55934	3619.4	4x4	LTE B48	20	56048	3630.6	4x4	-	-	20.16	20.21

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Approved by:

Technical Manager

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I.4 Additional Downlink Carrier Aggregation with Uplink Carrier Aggregation Enabled

This device supports uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with 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 CA_66B, CA_66C, CA_41C, or CA_48C ULCA active.

I.4.1 Additional DL Carrier Aggregation RF Conducted Powers with Uplink Carrier Aggregation Enabled

Table I-25
Maximum Output Powers

Combination	PCC										SCC 1										SCC 2										Power	
	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 Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod.	SCC UL# RB	SCC UL# RB Offset	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]	ULCA Tx Power with add'l CA config. active (dBm)	ULCA Tx Power (dBm)
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	QPSK	1	0	39948	2525.8	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	24.26	24.27
CA 41D	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	QPSK	1	0	39948	2525.8	LTE B41	20	40146	2545.6	-	-	-	-	-	-	-	-	24.22	24.27

I.4.2 Additional 4x4 MIMO DL Carrier Aggregation RF Conducted Powers with Uplink Carrier Aggregation Enabled

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 I-26
Maximum Output Powers

Combination	PCC										SCC 1										SCC 2										Power	
	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]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod.	SCC UL# RB	SCC UL# RB Offset	SCC (DL) Channel	SCC (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.	ULCA Tx Power with add'l CA config. active (dBm)	ULCA Tx Power (dBm)
CA [66B]	LTE B66	10	132022	1715	QPSK	1	49	66486	2115	4x4	LTE B66	10	132121	1724.9	QPSK	1	0	66585	2124.9	4x4	-	-	-	-	-	-	-	-	-	-	25.04	25.07
CA [66C]	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4	LTE B66	20	132270	1739.8	QPSK	1	0	66734	2139.8	4x4	-	-	-	-	-	-	-	-	-	-	24.85	24.91

Combination	PCC										SCC 1										SCC 2										Power	
	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]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod.	SCC UL# RB	SCC UL# RB Offset	SCC (DL) Channel	SCC (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.	ULCA Tx Power with add'l CA config. active (dBm)	ULCA Tx Power (dBm)
CA [41C]	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4	LTE B41	20	39948	2525.8	QPSK	1	0	39948	2525.8	4x4	-	-	-	-	-	-	-	-	-	-	24.33	24.27
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2	LTE B41	20	39948	2525.8	QPSK	1	0	39948	2525.8	2x2	LTE B41	20	41490	2680	4x4	-	-	-	-	-	24.28	24.27
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4	LTE B41	20	39948	2525.8	QPSK	1	0	39948	2525.8	4x4	LTE B41	20	41490	2680	2x2	-	-	-	-	-	24.31	24.27
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4	LTE B41	20	39948	2525.8	QPSK	1	0	39948	2525.8	4x4	LTE B41	20	41490	2680	4x4	-	-	-	-	-	24.29	24.27
CA [41D]	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4	LTE B41	20	39948	2525.8	QPSK	1	0	39948	2525.8	4x4	LTE B41	20	40146	2545.6	4x4	-	-	-	-	-	24.32	24.27

Combination	PCC										SCC 1										SCC 2										Power	
	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]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod.	SCC UL# RB	SCC UL# RB Offset	SCC (DL) Channel	SCC (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.	ULCA Tx Power with add'l CA config. active (dBm)	ULCA Tx Power (dBm)
CA [48C]	LTE B48	20	56207	3646.7	QPSK	1	99	56207	3646.7	4x4	LTE B48	20	56405	3666.5	QPSK	1	0	56405	3666.5	4x4	-	-	-	-	-	-	-	-	-	-	19.82	19.87
CA [48C]	LTE B48	20	56207	3646.7	QPSK	1	99	56207	3646.7	4x4	LTE B48	20	56405	3666.5	QPSK	1	0	56405	3666.5	4x4	LTE B48	20	56009	3626.9	4x4	-	-	-	-	-	19.83	19.87
CA [48E]	LTE B48	20	56207	3646.7	QPSK	1	99	56207	3646.7	4x4	LTE B48	20	56405	3666.5	QPSK	1	0	56405	3666.5	4x4	LTE B48	20	56009	3626.9	4x4	LTE B48	20	55811	3607.1	4x4	19.84	19.87

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