

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.

- 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 1.1: Summary of the 2023-2024 Seasonal Performance of the Top 100 Companies (by Revenue)									
Company Name		Regional Sales Breakdown (USD)				Restriction	Company's Overall Performance by Measurement Support	Notes	
Region	Q1	Q2	Q3	Q4	Q1			Q2	
USA	Apple Inc.	1,200,000,000	1,300,000,000	1,400,000,000	1,500,000,000	None	Strong growth in Q4	1,200,000,000	1,300,000,000
USA	Microsoft Corp.	1,100,000,000	1,200,000,000	1,300,000,000	1,400,000,000	None	Stable performance	1,100,000,000	1,200,000,000
USA	Amazon.com	1,000,000,000	1,100,000,000	1,200,000,000	1,300,000,000	None	Consistent growth	1,000,000,000	1,100,000,000
USA	Google LLC	900,000,000	1,000,000,000	1,100,000,000	1,200,000,000	None	Steady increase	900,000,000	1,000,000,000
USA	Facebook Inc.	800,000,000	900,000,000	1,000,000,000	1,100,000,000	None	Growing market	800,000,000	900,000,000
USA	Netflix Inc.	700,000,000	800,000,000	900,000,000	1,000,000,000	None	Expanding user base	700,000,000	800,000,000
USA	Alphabet Inc.	600,000,000	700,000,000	800,000,000	900,000,000	None	High growth	600,000,000	700,000,000
USA	Twitter Inc.	500,000,000	600,000,000	700,000,000	800,000,000	None	Stable revenue	500,000,000	600,000,000
USA	LinkedIn Corp.	400,000,000	500,000,000	600,000,000	700,000,000	None	Consistent growth	400,000,000	500,000,000
USA	Slack Technologies	300,000,000	400,000,000	500,000,000	600,000,000	None	Strong growth	300,000,000	400,000,000
USA	Zoom Video	200,000,000	300,000,000	400,000,000	500,000,000	None	High growth	200,000,000	300,000,000
USA	Dropbox Inc.	100,000,000	200,000,000	300,000,000	400,000,000	None	Steady increase	100,000,000	200,000,000
USA	Spotify Inc.	90,000,000	100,000,000	110,000,000	120,000,000	None	Growing market	90,000,000	100,000,000
USA	Twitter Inc.	80,000,000	90,000,000	100,000,000	110,000,000	None	Stable revenue	80,000,000	90,000,000
USA	LinkedIn Corp.	70,000,000	80,000,000	90,000,000	100,000,000	None	Consistent growth	70,000,000	80,000,000
USA	Slack Technologies	60,000,000	70,000,000	80,000,000	90,000,000	None	Strong growth	60,000,000	70,000,000
USA	Zoom Video	50,000,000	60,000,000	70,000,000	80,000,000	None	High growth	50,000,000	60,000,000
USA	Dropbox Inc.	40,000,000	50,000,000	60,000,000	70,000,000	None	Steady increase	40,000,000	50,000,000
USA	Spotify Inc.	30,000,000	40,000,000	50,000,000	60,000,000	None	Growing market	30,000,000	40,000,000
USA	Twitter Inc.	20,000,000	30,000,000	40,000,000	50,000,000	None	Stable revenue	20,000,000	30,000,000
USA	LinkedIn Corp.	10,000,000	20,000,000	30,000,000	40,000,000	None	Consistent growth	10,000,000	20,000,000
USA	Slack Technologies	9,000,000	10,000,000	11,000,000	12,000,000	None	Strong growth	9,000,000	10,000,000
USA	Zoom Video	8,000,000	9,000,000	10,000,000	11,000,000	None	High growth	8,000,000	9,000,000
USA	Dropbox Inc.	7,000,000	8,000,000	9,000,000	10,000,000	None	Steady increase	7,000,000	8,000,000
USA	Spotify Inc.	6,000,000	7,000,000	8,000,000	9,000,000	None	Growing market	6,000,000	7,000,000
USA	Twitter Inc.	5,000,000	6,000,000	7,000,000	8,000,000	None	Stable revenue	5,000,000	6,000,000
USA	LinkedIn Corp.	4,000,000	5,000,000	6,000,000	7,000,000	None	Consistent growth	4,000,000	5,000,000
USA	Slack Technologies	3,000,000	4,000,000	5,000,000	6,000,000	None	Strong growth	3,000,000	4,000,000
USA	Zoom Video	2,000,000	3,000,000						

Index	ZCC	Supported Channel Bandwidth (MHz)				Restriction	Completely Covered by Measurement Superset
		CC1	CC2	CC3	CC4		
ACC#M01	CA [2C]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM0	
ACC#M02	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM1	
ACC#M03	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM2	
ACC#M04	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM3	
ACC#M05	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM4	
ACC#M06	CA [2A-2A]	5, 10, 15, 20	5, 10			ACC#BM5	
ACC#M07	CA [2A-2A]	5, 10, 15, 20	5, 10			ACC#BM6	
ACC#M08	CA [2A-2A]	5, 10, 15, 20	5, 10			ACC#BM7	
ACC#M09	CA [2A-2A]	5, 10	5, 10			ACC#BM8	
ACC#M10	CA [2A-2A]	5, 10, 15, 20	5, 10		B29 SC Only	ACC#BM9	
ACC#M11	CA [2A-2A]	5, 10, 15, 20	5, 10			ACC#BM10	
ACC#M12	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM11	
ACC#M13	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM12	
ACC#M14	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM13	
ACC#M15	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM14	
ACC#M16	CA [2A-2A]	5, 10	5, 10			ACC#BM15	
ACC#M17	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM16	
ACC#M18	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM17	
ACC#M19	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM18	
ACC#M20	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM19	
ACC#M21	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM20	
ACC#M22	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM21	
ACC#M23	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM22	
ACC#M24	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM23	
ACC#M25	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM24	
ACC#M26	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM25	
ACC#M27	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM26	
ACC#M28	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM27	
ACC#M29	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM28	
ACC#M30	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM29	
ACC#M31	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM30	
ACC#M32	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM31	
ACC#M33	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM32	
ACC#M34	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM33	
ACC#M35	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM34	
ACC#M36	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM35	
ACC#M37	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM36	
ACC#M38	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM37	
ACC#M39	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM38	
ACC#M40	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM39	
ACC#M41	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM40	
ACC#M42	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM41	
ACC#M43	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM42	
ACC#M44	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM43	
ACC#M45	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM44	
ACC#M46	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM45	
ACC#M47	CA [2A-2A]	5, 10, 15, 20	5, 10, 15, 20			ACC#BM46	
ACC#M48	CA [2A-						

FCC ID A3LSMS908U	 SAR EVALUATION REPORT 	Approved by: Quality Manager
Test Dates: 09/21/21 – 12/06/21	DUT Type: Portable Handset	APPENDIX J: Page 1 of 15

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.

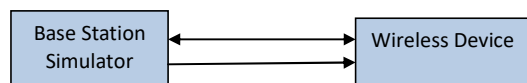


Figure J-1
DL CA Power Measurement Setup

FCC ID A3LSMS908U	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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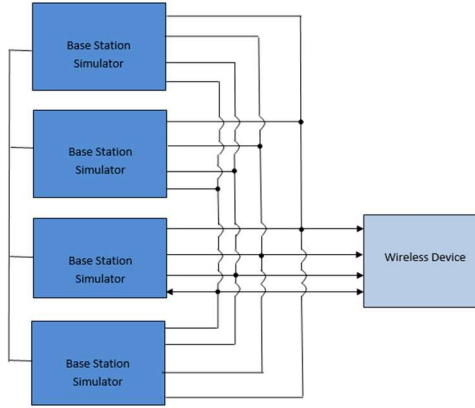


Figure J-2
DL CA with DL 4x4 MIMO Power Measurement Setup

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					SCC Band	SCC 1			SCC 2			SCC 3			Power					
			PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL RB	PCC UL RB Offset		PCC (DL) Channel	PCC (DL) Freq. [MHz]	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 4A-4A-71A	LTE B71	5	133147	695.5	QPSK	1	12	68611	619.5	LTE B4	20	2175	2132.5	LTE B4	10	2260	2150	-	-	-	-	25.23	25.21
CA 4B-4A-71A	LTE B71	5	133147	695.5	QPSK	1	12	68611	619.5	LTE B4B	20	55990	3625	LTE B4B	20	55940	3630	-	-	-	-	25.28	25.21
CA 4B-71A	LTE B71	5	133147	695.5	QPSK	1	12	68611	619.5	LTE B4B	20	55990	3625	LTE B4B	20	56186	3644.8	-	-	-	-	25.27	25.21
CA 2A-2A-71A	LTE B71	5	133147	695.5	QPSK	1	12	68611	619.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	25.26	25.21
CA 2A-2A-6B-71A	LTE B71	5	133147	695.5	QPSK	1	12	68611	619.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B6B	20	66786	2145	25.33	25.21
CA 2A-6B-4A-71A	LTE B71	5	133147	695.5	QPSK	1	12	68611	619.5	LTE B2	20	900	1960	LTE B6B	20	66786	2145	LTE B6B	20	67236	2190	25.34	25.21
CA 2A-6B-71A	LTE B71	5	133147	695.5	QPSK	1	12	68611	619.5	LTE B2	20	900	1960	LTE B6B	20	66786	2145	LTE B6B	20	66786	2145	25.35	25.21

J.2.2 LTE Band 12 as PCC

Table J-4
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC					SCC 1				SCC 2				SCC 3				SCC 4				Power			
			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]	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-12A (1)	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	24.93	24.85
CA 4A-12A (1)	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	24.93	24.85
CA 4A-12A (2)	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	24.87	24.85
CA 12A-2A	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B2B	20	55990	1962.5	-	-	-	-	-	-	-	-	-	-	-	-	24.97	24.85
CA 12A-4A	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B4B	20	55990	3625	-	-	-	-	-	-	-	-	-	-	-	-	24.98	24.85
CA 12A-4B	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B4B	20	55990	3625	-	-	-	-	-	-	-	-	-	-	-	-	24.86	24.85
CA 12A-6B (1)	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B6B	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	24.87	24.85
CA 12A-6B (2)	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B6B	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	24.82	24.85
CA 12A-4B	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B4B	20	55990	3625	-	-	-	-	-	-	-	-	-	-	-	-	24.84	24.85
CA 12A-4B	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B4B	20	55990	3625	-	-	-	-	-	-	-	-	-	-	-	-	24.95	24.85
CA 2A-2A-12A	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	24.77	24.85
CA 2A-4A-12A	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	20	2350	2190	-	-	-	-	24.83	24.85
CA 2A-4A-12B	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	24.83	24.85
CA 2A-12A-6B	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B2	20	900	1960	LTE B6B	20	66786	2145	LTE B6B	20	66884	2164.8	-	-	-	-	24.78	24.85
CA 4A-12B	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B2	5	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	20	2350	2190	-	-	-	-	24.93	24.85
CA 12A-4B	LTE B12	5	23155	713.5	QPSK	1	12	6155	743.5	LTE B4B	20	55990	3625	-	-	-	-	-	-	-	-	-	-	-	-	24.93	24.85
CA 2A-2A-12A-30A-6B	LTE B12	5	23155	713.5	QPSK	1	12	5155	743.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9620	2355	LTE B6B	20	66786	2145	24.76	24.85
CA 2A-2A-12A-6B-6B	LTE B12	5	23155	713.5	QPSK	1	12	5155	743.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B6B	20	66786	2145	LTE B6B	20	67236	2190	24.93	24.85
CA 2A-2A-12B-6B	LTE B12	5	23155	713.5	QPSK	1	12	5155	743.5	LTE B2	5	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	20	2350	2190	-	-	-	-	24.93	24.85
CA 2A-12A-30A-6B-6B	LTE B12	5	23155	713.5	QPSK	1	12	5155	743.5	LTE B2	20	900	1960	LTE B30	10	9620	2355	LTE B6B	20	66786	2145	LTE B6B	20	67236	2190	24.93	24.85
CA 2A-12B-6B-6B	LTE B12	5	23155	713.5	QPSK	1	12	5155	743.5	LTE B2	5	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	20	2350	2190	-	-	-	-	24.93	24.85

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J.2.3 LTE Band 13 as PCC

Table J-5
Maximum Output Powers

[illegible]

J.2.4 LTE Band 14 as PCC

Table J-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 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 [dBm]	LTE Single Carrier Tx Power [dBm]	
CA 24-24A-24A-24A	LTE B4	5	23330	793	QPSK	1	12	5330	763	LTE B2	20	900	1960	LTE B2	20	700	2350	LTE B30	10	2880	2330	LTE B20	20	66786	2145	24.73	24.69	
CA 24-24A-24A-24A	LTE B4	5	23330	793	QPSK	1	12	5330	763	LTE B2	20	900	1960	LTE B2	20	700	2350	LTE B30	10	2880	2330	LTE B20	20	66786	2145	24.73	24.69	
CA 24-24A-24A-24A	LTE B4	5	23330	793	QPSK	1	12	5330	763	LTE B2	20	900	1960	LTE B2	20	700	2350	LTE B30	10	2880	2330	LTE B20	20	66786	2145	24.73	24.69	
CA 24-24A-24A-24A	LTE B4	5	23330	793	QPSK	1	12	5330	763	LTE B2	20	900	1960	LTE B2	20	700	2350	LTE B30	10	2880	2330	LTE B20	20	66786	2145	24.73	24.69	

J.2.5 LTE Band 5 as PCC

Table J-7
Maximum Output Powers

[illegible]

FCC ID A3LSMS908U	 PCTEST Proud to be part of element	 SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 09/21/21 – 12/06/21	DUT Type: Portable Handset	APPENDIX J: Page 4 of 15		

J.2.6 LTE Band 66 as PCC

Table J-8
Maximum Output Powers

[illegible]

J.2.7 LTE Band 25 as PCC

Table J-9
Maximum Output Powers

Combination	PCC									SCC 1				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]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA 5A-25A	LTE B25	5	26365	1882.5	QPSK	1	12	8365	1962.5	LTE B5	10	2525	881.5	23.78	23.87
CA 12A-25A	LTE B25	5	26365	1882.5	QPSK	1	12	8365	1962.5	LTE B12	10	5095	737.5	23.75	23.87
CA 25A-25A (1)	LTE B25	5	26365	1882.5	QPSK	1	12	8365	1962.5	LTE B25	20	8140	1940	23.86	23.87

J.2.8 LTE Band 30 as PCC

Table J-10
Maximum Output Powers

Combination		PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power			
		PCC Band	PCC BW [MHz]	PCC [RL] Channel	PCC [RL] Freq. [MHz]	Modulation	PCC [UL] RB	PCC [UL] RB Offset	PCC [UL] Channel	PCC [UL] 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 [UL] Channel	SCC [UL] Freq. [MHz]	LTE Tx Power with Power Class	LTE Single Carrier Tx Power [dBm]	
CA 2A-2A-2A-30A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B2	20	1700	1940	LTE B29	10	9715	722.5	-	21.22	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5	27710	5	27710	QPSK	1	12	8820	2355	LTE B2	20	900	1990	LTE B29	10	9715	722.5	LTE B99	20	20890	2145	-	22.20	22.54
CA 2A-2A-30A-66A	LTE B30	5																							

FCC ID A3LSMS908U	 PCTEST Proud to be part of element	 SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 09/21/21 – 12/06/21	DUT Type: Portable Handset	APPENDIX J: Page 5 of 15		

J.2.9 LTE Band 41 as PCC

Table J-11
Maximum Output Powers

	PCC									SCC 1				SCC 2				Power	
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 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 41C (1)	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	LTE B41	20	40911	2622.1	-	-	-	-	24.13	24.15
CA 41D	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	LTE B41	20	40911	2622.1	LTE B41	20	40713	2602.3	24.10	24.15

J.2.10 LTE Band 48 as PCC

Table J-12
Maximum Output Powers

Combination	PCC										SCC 1			SCC 2			SCC 3			SCC 4			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]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 48A-48A	LTE B48	20	56207	3646.7	QPSK	1	50	56207	3646.7	LTE B48	20	56340	3660	-	-	-	-	-	-	-	-	-	-	-	-	-	19.05	19.13
CA 48A-48C	LTE B48	20	56207	3646.7	QPSK	1	50	56207	3646.7	LTE B48	20	56340	3660	LTE B48	20	56340	3660	-	-	-	-	-	-	-	-	-	19.05	19.13
CA 48C-48A	LTE B48	20	56207	3646.7	QPSK	1	50	56207	3646.7	LTE B48	20	56340	3660	LTE B48	20	56340	3660	-	-	-	-	-	-	-	-	-	19.05	19.13
CA 48A-48D	LTE B48	20	56207	3646.7	QPSK	1	50	56207	3646.7	LTE B48	20	56340	3660	LTE B48	20	56340	3660	LTE B48	20	56340	3660	-	-	-	-	-	19.05	19.13
CA 48D-48A	LTE B48	20	56207	3646.7	QPSK	1	50	56207	3646.7	LTE B48	20	56340	3660	LTE B48	20	56340	3660	LTE B48	20	56340	3660	-	-	-	-	-	19.05	19.13
CA 48C-48C	LTE B48	20	56207	3646.7	QPSK	1	50	56207	3646.7	LTE B48	20	56340	3660	LTE B48	20	56340	3660	LTE B48	20	56340	3660	-	-	-	-	-	19.05	19.13
CA 48A-48E	LTE B48	20	56207	3646.7	QPSK	1	50	56207	3646.7	LTE B48	20	56340	3660	LTE B48	20	56340	3660	LTE B48	20	56340	3660	-	-	-	-	-	19.05	19.13
CA 48E-48A	LTE B48	20	56207	3646.7	QPSK	1	50	56207	3646.7	LTE B48	20	56340	3660	LTE B48	20	56340	3660	LTE B48	20	56340	3660	-	-	-	-	-	19.05	19.13
CA 48C-48D	LTE B48	20	56207	3646.7	QPSK	1	50	56207	3646.7	LTE B48	20	56340	3660	LTE B48	20	56340	3660	LTE B48	20	56340	3660	-	-	-	-	-	19.05	19.13
CA 48D-48C	LTE B48	20	56207	3646.7	QPSK	1	50	56207	3646.7	LTE B48	20	56340	3660	LTE B48	20	56340	3660	LTE B48	20	56340	3660	-	-	-	-	-	19.05	19.13
CA 48F	LTE B48	20	56207	3646.7	QPSK	1	50	56207	3646.7	LTE B48	20	56340	3660	LTE B48	20	56340	3660	LTE B48	20	56340	3660	-	-	-	-	-	19.05	19.13

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-13
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	25	23.48	23.41	23.8
25	5	26365	1882.5	QPSK	1	12	23.86	23.87	23.5
30	5	27710	2310	QPSK	1	12	22.61	22.54	22.5
41	10	41055	2636.5	QPSK	1	25	24.21	24.15	24.0
48	20	56207	3646.7	QPSK	1	50	19.05	19.13	19.0

FCC ID A3LSMS908U		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 09/21/21 – 12/06/21	DUT Type: Portable Handset			APPENDIX J: Page 6 of 15

J.3.4 LTE Band 13 as PCC

Table J-16
Maximum Output Powers

[illegible]

J.3.5 LTE Band 14 as PCC

Table J-17
Maximum Output Powers

Maximum Output Powers																																													
Combination		PCC										SCC 1										SCC 3										SCC 4										LTE Tx Power (dBm)		LTE Single Carrier Tx Power (dBm)	
		PCC Band	PCC BW (MHz)	PCC Freq. (MHz)	Mod.	PCC UL Ref. (MHz)	PCC UL Band	PCC Freq. (MHz)	DL Ant. Config.	SCC 1 Band	SCC 1 BW (MHz)	SCC 1 Freq. (MHz)	DL Ant. Config.	SCC 1 Band	SCC 1 BW (MHz)	SCC 1 Freq. (MHz)	DL Ant. Config.	SCC 3 Band	SCC 3 BW (MHz)	SCC 3 Freq. (MHz)	DL Ant. Config.	SCC 3 Band	SCC 3 BW (MHz)	SCC 3 Freq. (MHz)	DL Ant. Config.	SCC 4 Band	SCC 4 BW (MHz)	SCC 4 Freq. (MHz)	DL Ant. Config.																
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	66786	2145	4x4	24.83	24.83									
CA 2A-2A-14A-30A-66A	1	LTE B14	5	23330	733	QPSK	1	12	5300	733	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20	800	1960	2x2	LTE B14	20																	

J.3.6 LTE Band 5 as PCC

Table J-18
Maximum Output Powers

[illegible]

J.3.7 LTE Band 66 as PCC

Table J-19
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [U] Ch.	PCC [LH] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [D] Ch.	PCC [D] Freq. [MHz]	Dt. Config.	SCC Band	SCC BW [MHz]	SCC [D] Ch.	SCC [D] Freq. [MHz]	Dt. Config.	SCC Band	SCC BW [MHz]	SCC [D] Ch.	SCC [D] Freq. [MHz]	Dt. Config.	SCC Band	SCC BW [MHz]	SCC [D] Ch.	SCC [D] Freq. [MHz]	Dt. Config.	SCC Band	SCC BW [MHz]	SCC [D] Ch.	SCC [D] Freq. [MHz]	Dt. Config.	LTE Tx Power with CA Enabled	LTE Single Carrier TxPower (dBm)	
CA_12A-(66A) (1)	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.44	23.41	
CA_12A-(66A) (2)	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.44	23.41	
CA_66A-(66C)	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B66	20	67038	2170.2	4x4	LTE B66	20	67336	2190	4x4	-	-	-	-	-	-	-	-	-	-	-	23.55	23.41
CA_2A-(66A)-(66B)	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.42	23.41	
CA_66A-(66C)	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B66	20	67038	2170.2	4x4	LTE B66	20	67336	2190	2x2	-	-	-	-	-	-	-	-	-	-	-	23.50	23.41
CA_66C-(66A)	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B66	20	66630	2129.4	2x2	LTE B66	20	67336	2190	4x4	-	-	-	-	-	-	-	-	-	-	-	23.56	23.41
CA_66A-(66C)	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B66	20	67038	2170.2	4x4	LTE B66	20	67336	2190	4x4	-	-	-	-	-	-	-	-	-	-	-	23.48	23.41
CA_66C-(66B)	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B66	20	66630	2129.4	4x4	LTE B66	20	67336	2190	4x4	-	-	-	-	-	-	-	-	-	-	-	23.51	23.41
CA_2A-(66A)-(66B)-71A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B12	10	5095	737.5	2x2	LTE B12	10	1900	1960	2x2	LTE B71	20	68761	634.5	2x2	-	-	-	-	-	-	23.42	23.41
CA_2A-(2A)-(66A)-71A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B71	20	68761	634.5	2x2	-	-	-	-	-	-	23.51	23.41
CA_2A-(2A)-(66A)-71A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B71	20	68761	634.5	2x2	-	-	-	-	-	-	23.51	23.41
CA_2A-(2A)-(66A)-71A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B71	20	68761	634.5	2x2	-	-	-	-	-	-	23.53	23.41
CA_2A-(2A)-(66A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B71	20	68761	634.5	2x2	-	-	-	-	-	-	23.48	23.41
CA_2A-5A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	4x4	-	-	-	-	-	-	23.47	23.41
CA_2A-5A-48A-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.37	23.41
CA_2A-5A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.29	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	4x4	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	4x4	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	4x4	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	4x4	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	4x4	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	4x4	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	4x4	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	4x4	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	4x4	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	4x4	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990	3625	2x2	-	-	-	-	-	-	23.30	23.41
CA_2A-(48A)-66A	LTE B66	10	130202	715	QPSK	1	25	66486	2115	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	5225	881.5	2x2	LTE B48	20	55990										

FCC ID A3LSMS908U	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 09/21/21 – 12/06/21	DUT Type: Portable Handset	APPENDIX J: Page 10 of 15		

Maximum Output Powers

Combination	PCB Ref	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power					
		PCC BW [MHz]	PCC [Ch]	PCC [BW]	PCC [Ch]	PCC BW [MHz]	PCC [Ch]	PCC [BW]	PCC [Ch]	SCC BW [MHz]	SCC [Ch]	SCC [BW]	SCC [Ch]	SCC BW [MHz]	SCC [Ch]	SCC [BW]	SCC [Ch]	SCC BW [MHz]	SCC [Ch]	SCC [BW]	SCC [Ch]		LTE Tx Power [dBm]	LTE Rx Power [dBm]			
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	444	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	262	LTE B82	20	900	960	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	66488	215	262	LTE B82	20	900	960	444	LTE B82	20	700	940	262	LTE B84	10	960	2305	240	23.14	23.41
CA 2A-2A-SIA-IRSA	LTE B80	10	130202	1715	QPSK	1	25	6648																			

FCC ID A3LSMS908U



SAR EVALUATION REPORT



Approved by:

Quality Manager

Test Dates:

DUT Type:

Portable Handset

APPENDIX J:

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Maximum Output Powers

[illegible]

ECC ID: A31 SMS90811



SAR EVALUATION REPORT



Approved by:
Quality Manager

Test Dates:

DUT Type:

APPENDIX I.

Maximum Output Powers

[illegible]

J.3.8 LTE Band 25 as PCC

Maximum Output Powers

Combination	PCC										SCC 1					Power	
	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 Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 5A-[25A]	LTE B25	5	26365	1882.5	QPSK	1	12	8365	1962.5	4x4	LTE B5	10	2525	881.5	2x2	23.84	23.87
CA 25A-[25A] (1)	LTE B25	5	26365	1882.5	QPSK	1	12	8365	1962.5	2x2	LTE B25	20	8140	1940	4x4	23.76	23.87
CA [25A]-25A (1)	LTE B25	5	26365	1882.5	QPSK	1	12	8365	1962.5	4x4	LTE B25	20	8140	1940	2x2	23.90	23.87
CA [25A]-[25A] (1)	LTE B25	5	26365	1882.5	QPSK	1	12	8365	1962.5	4x4	LTE B25	20	8140	1940	4x4	23.84	23.87

LTE Band 30 as PCC

Table J-24

PCC										SC1				SC2				SC3				SC4				Power							
Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC Freq. [MHz]	OpSd.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC Freq. [MHz]	DL Ant. Config.	LTE Tx Power (dBm)	LTE Rx Power (dBm)	LTE Step Tx Carrier Freq. [MHz]		
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	262	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.50	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	262	LTE-B2	20	9900	1960	444	LTE-B2	20	700	1960	262	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	444	LTE-B2	20	700	1960	262	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960	444	LTE-B29	10	9715	722.5	262	-	-	-	-	-	22.56	22.54	22.54
CA 2A-2A-2A-2A-2A-2A	LTE-B30	5	27720	2350	QPSK	1	12	9820	2355	444	LTE-B2	20	9900	1960	262	LTE-B2	20	700	1960</														

LTE Band 41 as PCC

Table J-25

Combination	PCC										SCC 1				SCC 2				Power			
	PCC Band	PCC BW [MHz]	PCC (U) Ch.	PCC (U) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (D) Ch.	PCC (D) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (D) Ch.	SCC (D) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (D) Ch.	SCC (D) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [41C] (1)	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	4x4	LTE B41	20	40911	2622.1	4x4	-	-	-	-	-	24.19	24.15
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	2602.3	4x4	24.24	24.15

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J.3.11 LTE Band 48 as PCC

Table J-26
Maximum Output Powers

[illegible]

J.4 Downlink Carrier Aggregation with CA_41C 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 ULCA active.

J.4.1 DL Carrier Aggregation RF Conducted Powers

Table J-27
Maximum Output Powers

Maximum Output Power																							
Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC						SCC Band	SCC1						SCC2				Power		
				PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] 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]	ULCA Tx Power with Add'l CA config. active (dBm)	ULCA Tx Power (dBm)		
CA 4TD	LTE B41	20	30750	2508	QPSK	1	99	30750	2508	LTE B41	20	39684	2525.8	QPSK	1	0	39684	2525.8	LTE B41	20	40168	2565.8	23.74

J.4.2 DL Carrier Aggregation with DL 4x4 MIMO RF Conducted Powers

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

Table J-28
Maximum Output Powers

PCC											SCC 1											Power						
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 Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod.	SCC UL# RB	SCC UL RB Offset	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	ULCA Tx-Power with add'l CA config.	ULCA Tx Power (dBm)						
CA_{60B}	LTE B66	10	132022	1715	QPSK	1	49	66486	2115	4x4	LTE B66	10	132121	1724.9	QPSK	1	0	66585	2124.9	4x4		23.47	23.49					
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		23.28	23.42					
PCC											SCC 1											Power						
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 Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod.	SCC UL# RB	SCC UL RB Offset	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	DL Ant. Config.	ULCA Tx-Power with add'l CA config.	ULCA Tx Power (dBm)	
CA_{41C} (1)	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4	LTE B41	20	39948	2525.8	QPSK	1	0	39948	2525.8	4x4	-	-	-	-	-	-	23.79	23.74
CA_{41D}	LTE B41	20	39750	2508	QPSK	1	99	39750	2508	4x4	LTE B41	20	39948	2525.8	QPSK	1	0	39948	2525.8	4x4	LTE B41	20	40146	2545.6	4x4		23.78	23.74
PCC											SCC 1											Power						
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 Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod.	SCC UL# RB	SCC UL RB Offset	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	DL Ant. Config.	ULCA Tx-Power with add'l CA config.	ULCA Tx Power (dBm)	
CA_{48C}	LTE B48	20	56207	3646.7	QPSK	50	0	56207	3646.7	4x4	LTE B48	20	56009	3676.9	QPSK	50	0	56009	3676.9	4x4							19.05	

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