

F.2 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 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 9.4 and appendix H. 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.

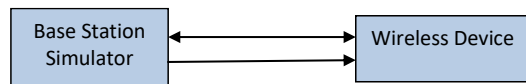




Figure F-1
DL CA Power Measurement Setup

FCC ID: A3LSMF711U1	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 08/03/21 – 09/13/21	DUT Type: Portable Handset		APPENDIX F: Page 2 of 18

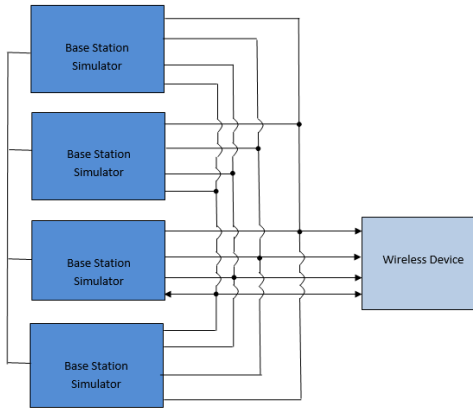


Figure F-2
DL CA with DL 4x4 MIMO Power Measurement Setup

F.3 Downlink Carrier Aggregation RF Conducted Powers

F.3.1 LTE Band 71 as PCC

Table F-3
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1				SCC 2				SCC 3				Power					
										SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]				
CA_4A-4A-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	-	24.28	24.38		
CA_4B-4B-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	LTE B48	20	5590	3625	LTE B48	20	5540	3630	-	-	-	-	-	-	-	24.38	24.38	
CA_4B-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	LTE B48	20	5590	3625	LTE B48	20	5518	3644.8	-	-	-	-	-	-	-	24.09	24.38	
CA_2A-2A-4A-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	24.37	24.38	
CA_2A-2A-66A-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67296	2140	24.20	24.38
CA_2A-66A-66A-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	24.09	24.38
CA_2A-66C-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	24.09	24.38

F.3.2 LTE Band 12 as PCC

Table F-4
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_2A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	14	5035	730.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	24.46	24.45			
CA_4A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	24.54	24.45			
CA_4A-12A (2)	LTE B12	5	23035	701.5	QPSK	1	14	5035	730.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	24.45	24.45			
CA_12A-25A	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B25	20	8365	1962.5	-	-	-	-	-	-	-	-	-	-	-	-	-	24.61	24.45			
CA_12A-46A	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B46	20	50695	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	24.57	24.45			
CA_12A-66A (1)	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.53	24.45			
CA_12A-66A (2)	LTE B12	5	23035	701.5	QPSK	1	14	5035	730.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.44	24.45			
CA_4A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	-	-	-	-	24.51	24.45			
CA_12A-46C	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B46	20	50695	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	-	24.57	24.45			
CA_2A-2A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	24.17	24.45			
CA_2A-2A-12B	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	24.43	24.45			
CA_2A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	24.18	24.45			
CA_2A-4A-12B	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	24.26	24.45			
CA_12A-18C	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B8	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	-	24.13	24.45			
CA_4A-4A-12B	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B12	10	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	24.20	24.45			
CA_12A-46D	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B46	20	50695	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50683	5557.3	-	-	-	-	-	24.43	24.45			
CA_2A-2A-12A-66A-66A	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	24.14	24.45
CA_2A-2A-12A-66A-66A	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67296	2190	24.15	24.45				
CA_2A-2A-12B-66A	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	66786	2145	24.16	24.45
CA_2A-12A-18A-66A-66A	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B2	20	900	1960	LTE B2	10	900	2315	LTE B66	20	66786	2145	LTE B66	20	67296	2190	24.17	24.45				
CA_2A-12B-66A-66A	LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67296	2190	24.22	24.45				

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 08/03/21 – 09/13/21	DUT Type: Portable Handset		APPENDIX F: Page 3 of 18

F.3.3

LTE Band 13 as PCC

**Table F-5
Maximum Output Powers**

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC			SCC 1										SCC 2										SCC 3										SCC 4										LTE Tx Power with CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
				Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]																
CA_25A-25A-25A	LTE B13	5	26715	844	CPASK	1	0	8990	861.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	24.05	24.00									
CA_25A-26A-41A	LTE B13	5	26715	844	CPASK	1	0	8990	861.5	LTE B25	20	8365	1962.5	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	24.05	24.00									
CA_25A-26A-41C	LTE B13	5	26715	844	CPASK	1	0	8990	861.5	LTE B25	20	8365	1962.5	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	24.05	24.00									

F.3.4

LTE Band 14 as PCC

**Table F-6
Maximum Output Powers**

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC			SCC 1										SCC 2										SCC 3										SCC 4										LTE Tx Power with CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
				Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]													
CA_2A-2A-14A-30A-66A	LTE B14	5	23310	793	CPASK	1	24	5300	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9620	2355	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	24.70	24.63									
CA_2A-2A-14A-66A-66A	LTE B14	5	23310	793	CPASK	1	24	5300	763	LTE B2	20	900	1960	LTE B32	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	24.70	24.63									
CA_2A-14A-30A-66A-66A	LTE B14	5	23310	793	CPASK	1	24	5300	763	LTE B2	20	900	1960	LTE B32	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	24.70	24.63									

F.3.5

LTE Band 5 as PCC

**Table F-7
Maximum Output Powers**

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC			SCC 1										SCC 2										SCC 3										SCC 4										LTE Tx Power with CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
				Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]													
CA_25A-25A	LTE B5	5	26715	844	CPASK	1	0	8990	861.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	24.05	24.00									
CA_25A-26A	LTE B5	5	26715	844	CPASK	1	0	8990	861.5	LTE B25	20	8365	1962.5	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	24.05	24.00									
CA_25A-41A	LTE B5	5	26715	844	CPASK	1	0	8990	861.5	LTE B25	20	8365	1962.5	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	24.05	24.00									

F.3.6

LTE Band 26 as PCC

**Table F-8
Maximum Output Powers**

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC			SCC 1										SCC 2										SCC 3										LTE Tx Power with CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
				Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC [DL] Channel	SCC [DL] Freq. [MHz]							
CA_25A-25A-26A	LTE B26	5	26715	846.5	CPASK	1	24	8715	861.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	LTE B25	20	8365	1962.5	24.05	24.00
CA_25A-26A-41A	LTE B26	10	26990	844	CPASK	1	0	8990	861.5	LTE B25	20	8365	1962.5	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	24.05	24.00
CA_26A-41C	LTE B26	10	26990	844	CPASK	1	0	8990	869	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	24.05	24.00
CA_25A-26A-41C	LTE B26	10	26990	844	CPASK	1	0	8990	869	LTE B25	20	8365	1962.5	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	LTE B41	20	40620	2573.2	24.05	24.00

FCC ID: A3LSMF711U1



SAR EVALUATION REPORT

Reviewed by:
Quality Manager

Test Dates:
08/03/21 – 09/13/21

DUT Type:
Portable Handset

APPENDIX F:
Page 4 of 18

F.3.7

LTE Band 66 as PCC

Table F-9
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UR RB	PCC (UL) RB Offset	PCC			SCC 1			SCC 2			SCC 3			LTE Tx Power with DR CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
								PCC (UL) Channel	PCC (UL) Freq. [MHz]	SCC Band	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band			SCC (DL) Channel	SCC (DL) Freq. [MHz]
CA_SA_25A	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B25	20	8090	1855	LTE B25	20	8090	1855	24.50	24.50
CA_SA_25A	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B25	20	8090	1855	LTE B25	20	8090	1855	24.50	24.50
CA_SA_25A-41C	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B25	20	8090	1855	LTE B41	20	40420	2573.2	24.50	24.50
CA_SA_25A-41C	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B41	20	40420	2573.2	LTE B41	20	40420	2573.2	24.50	24.50
CA_SA_25A-41C	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B46	20	50665	5517.7	LTE B46	20	50665	5517.7	24.50	24.50
CA_SA_25A-41C	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B46	20	50665	5517.7	LTE B41	20	40420	2573.2	24.50	24.50
CA_SA_25A-41D	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B41	20	40422	2573.2	LTE B41	20	40818	2612.8	24.50	24.50

F.3.8

LTE Band 25 as PCC

Table F-10
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UR RB	PCC (UL) RB Offset	PCC			SCC 1			SCC 2			SCC 3			LTE Tx Power with DR CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
								PCC (UL) Channel	PCC (UL) Freq. [MHz]	SCC Band	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band			SCC (DL) Channel	SCC (DL) Freq. [MHz]
CA_SA_25A	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B25	20	8090	1855	LTE B25	20	8090	1855	24.50	24.50
CA_SA_25A	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B25	20	8090	1855	LTE B25	20	8090	1855	24.50	24.50
CA_SA_25A-41A	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B41	20	40420	2593	LTE B41	20	40420	2593	24.50	24.50
CA_SA_25A-41A	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B46	20	50667	5517.7	LTE B46	20	50667	5517.7	24.50	24.50
CA_SA_25A-41C	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B41	20	40420	2593	LTE B41	20	40420	2593	24.50	24.50
CA_SA_25A-41C	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B46	20	50667	5517.7	LTE B46	20	50667	5517.7	24.50	24.50
CA_SA_25A-41D	LTE B25	10	26200	1855	QPSK	1	25	8090	1855	LTE B25	20	8090	1855	LTE B41	20	40422	2573.2	LTE B41	20	40818	2612.8	24.50	24.50

FCC ID: A3LSMF711U1



SAR EVALUATION REPORT

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Test Dates:
08/03/21 – 09/13/21

DUT Type:
Portable Handset

APPENDIX F:
Page 5 of 18

F.4.1

LTE 4x4 MIMO DL Standalone Powers

Table F-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]
66	15	132597	1772.5	QPSK	1	36	24.33	24.24
25	10	26090	1855	QPSK	1	25	24.30	24.50
30	10	27710	2310	QPSK	1	0	23.37	23.40
41	20	41490	2680	QPSK	1	50	24.56	24.54
48	20	56207	3646.7	QPSK	1	50	22.27	22.30

F.4.1

LTE Band 71 as PCC

Table F-15
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC				SCC 1				SCC 2				SCC 3				Power										
						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.	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]					
CA [4A]-[4A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	2x2	-	-	-	-	-	-	-	-	24.39	24.38		
CA [4A]-[4A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	-	-	-	-	-	-	-	-	-	24.34	24.38	
CA [4BA]-[4BA]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B48	20	55990	3625	4x4	LTE B48	20	56640	3690	2x2	-	-	-	-	-	-	-	-	-	24.26	24.38	
CA [4BA]-[4BA]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B48	20	55990	3625	4x4	LTE B48	20	55340	3560	4x4	-	-	-	-	-	-	-	-	-	24.38	24.38	
CA [48C]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B48	20	55990	3625	4x4	LTE B48	20	56188	3648.8	4x4	-	-	-	-	-	-	-	-	-	24.30	24.38	
CA [2A]-[2A]-[4A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	24.41	24.38
CA [2A]-[2A]-[4A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	24.29	24.38
CA [2A]-[2A]-[4A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	24.33	24.38
CA [2A]-[2A]-[4A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	24.39	24.38
CA [2A]-[2A]-[4A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	24.26	24.38
CA [2A]-[2A]-[66A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	2x2	-	-	-	-	-	24.36	24.38
CA [2A]-[2A]-[66A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.43	24.38
CA [2A]-[2A]-[66A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	2x2	-	-	-	-	-	24.27	24.38
CA [2A]-[2A]-[66A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.32	24.38
CA [2A]-[2A]-[66A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.29	24.38
CA [2A]-[66A]-[66A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	-	-	-	-	-	24.31	24.38
CA [2A]-[66A]-[66A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	-	-	-	-	-	24.38	24.38
CA [2A]-[66A]-[66A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	-	-	-	-	-	24.35	24.38
CA [2A]-[66A]-[66A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.28	24.38
CA [2A]-[66A]-[66A]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.23	24.38
CA [2A]-[66C]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	66984	2164.8	2x2	-	-	-	-	-	24.29	24.38
CA [2A]-[66C]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	-	-	-	-	-	24.27	24.38
CA [2A]-[66C]-71A	LTE B71	5	133447	695.5	QPSK	1	0	68911	649.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	-	-	-	-	-	24.37	24.38

FCC ID: A3LSMF711U1	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 08/03/21 – 09/13/21	DUT Type: Portable Handset		APPENDIX F: Page 7 of 18

F.4.2

LTE Band 12 as PCC

Table F-16
Maximum Output Powers

Table with columns for Combination, PCC Band, PCC Band (MHz), PCC (UL) Ch, Mod., PCC (UL) RB Offset, PCC (UL) 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 (UL) Ch, SCC (UL) 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 (UL) Ch, SCC (UL) Freq. (MHz), DL Ant. Config., LTE Tx Power with DL CA Enabled (dBm), and LTE Single Carrier Tx Power (dBm).

F.4.3

LTE Band 13 as PCC

Table F-17
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				DL Ant. Config.	LTE Tx Power with R-14 Enabled [dBm]	LTE Single Carrier Tx Power [dBm]					
						PCC UL Freq. [MHz]	PCC UL RB Offset	PCC [UL] Ch. Ch.	PCC [UL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]								
CA [2A]-14A-30A-66A	LTE B14	5	23330	793	QPSK	1	24	5330	793	2x2	LTE B02	20	900	1960	4x4	LTE B02	20	700	1940	2x2	LTE B30	10	8820	2355	2x2	LTE B66	20	66786	2145	2x2	24.70	24.63
CA [2A]-14A-30A-66A	LTE B14	5	23330	793	QPSK	1	24	5330	793	2x2	LTE B02	20	900	1960	4x4	LTE B02	20	700	1940	2x2	LTE B30	10	8820	2355	2x2	LTE B66	20	66786	2145	2x2	24.70	24.63
CA [2A]-14A-30A-66A	LTE B14	5	23330	793	QPSK	1	24	5330	793	2x2	LTE B02	20	900	1960	4x4	LTE B02	20	700	1940	2x2	LTE B30	10	8820	2355	2x2	LTE B66	20	66786	2145	2x2	24.70	24.63

F.4.4

LTE Band 14 as PCC

Table F-18
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				DL Ant. Config.	LTE Tx Power with R-14 Enabled [dBm]	LTE Single Carrier Tx Power [dBm]					
						PCC UL Freq. [MHz]	PCC UL RB Offset	PCC [UL] Ch. Ch.	PCC [UL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]								
CA [2A]-14A-30A-66A	LTE B14	5	23330	793	QPSK	1	24	5330	793	2x2	LTE B02	20	900	1960	4x4	LTE B02	20	700	1940	2x2	LTE B30	10	8820	2355	2x2	LTE B66	20	66786	2145	2x2	24.70	24.63
CA [2A]-14A-30A-66A	LTE B14	5	23330	793	QPSK	1	24	5330	793	2x2	LTE B02	20	900	1960	4x4	LTE B02	20	700	1940	2x2	LTE B30	10	8820	2355	2x2	LTE B66	20	66786	2145	2x2	24.70	24.63
CA [2A]-14A-30A-66A	LTE B14	5	23330	793	QPSK	1	24	5330	793	2x2	LTE B02	20	900	1960	4x4	LTE B02	20	700	1940	2x2	LTE B30	10	8820	2355	2x2	LTE B66	20	66786	2145	2x2	24.70	24.63

FCC ID: A3LSMF711U1



SAR EVALUATION REPORT

Reviewed by:

Quality Manager

Test Dates:

08/03/21 – 09/13/21

DUT Type:

Portable Handset

APPENDIX F:

Page 9 of 18

F.4.5

LTE Band 5 as PCC

Table F-19
Maximum Output Powers

Table with columns for Combination, FCC Band, and various power and frequency parameters across different bands (BCC, SCC, SCC).

FCC ID: A3LSMF711U1



SAR EVALUATION REPORT

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Test Dates: 08/03/21 - 09/13/21

DUT Type: Portable Handset


APPENDIX F: Page 10 of 18

F.4.6

LTE Band 26 as PCC

Table F-20
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC					SCC 1				SCC 2				SCC 3				Power							
						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.	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]			
CA [25A]-26A-26A	LTE B26	5	26715	816.5	QPSK	1	24	8715	861.5	2x2	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	2x2	-	-	-	-	-	-	-	24.00	24.00	
CA [25A]-26A-26A	LTE B26	5	26715	816.5	QPSK	1	24	8715	861.5	2x2	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	-	-	-	-	-	-	-	23.91	24.00	
CA [25A]-26A-41A	LTE B26	10	26990	844	QPSK	1	0	8990	889	2x2	LTE B25	20	8365	1962.5	4x4	LTE B41	20	40620	2593	2x2	-	-	-	-	-	-	-	23.88	24.10	
CA [25A]-26A-41A	LTE B26	10	26990	844	QPSK	1	0	8990	889	2x2	LTE B25	20	8365	1962.5	2x2	LTE B41	20	40620	2593	4x4	-	-	-	-	-	-	-	23.81	24.10	
CA [25A]-26A-41A	LTE B26	10	26990	844	QPSK	1	0	8990	889	2x2	LTE B25	20	8365	1962.5	4x4	LTE B41	20	40620	2593	4x4	-	-	-	-	-	-	-	23.85	24.10	
CA [26A]-41C	LTE B26	10	26990	844	QPSK	1	0	8990	889	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	-	-	-	-	23.88	24.10	
CA [25A]-26A-41C	LTE B26	10	26990	844	QPSK	1	0	8990	889	2x2	LTE B25	20	8365	1962.5	4x4	LTE B41	20	40620	2593	2x2	LTE B41	20	40422	2573.2	2x2	-	-	-	23.85	24.10
CA [25A]-26A-41C	LTE B26	10	26990	844	QPSK	1	0	8990	889	2x2	LTE B25	20	8365	1962.5	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	23.81	24.10
CA [25A]-26A-41C	LTE B26	10	26990	844	QPSK	1	0	8990	889	2x2	LTE B25	20	8365	1962.5	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	23.83	24.10

FCC ID: A3LSMF711U1	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 08/03/21 – 09/13/21	DUT Type: Portable Handset		APPENDIX F: Page 11 of 18

F.4.9

LTE Band 30 as PCC

Table F-25 Maximum Output Powers

Table F-25: Maximum Output Powers for LTE Band 30 as PCC. The table lists various combinations of PCC and SCC bands, along with their respective power limits and configurations. It includes columns for PCC Band, SCC Band, PCC Max Power, SCC Max Power, and LTE Tx Power.

F.4.10

LTE Band 41 as PCC

Table F-26 Maximum Output Powers

Table F-26: Maximum Output Powers for LTE Band 41 as PCC. The table lists various combinations of PCC and SCC bands, along with their respective power limits and configurations. It includes columns for PCC Band, SCC Band, PCC Max Power, SCC Max Power, and LTE Tx Power.

FCC ID: A3LSMF711U1



SAR EVALUATION REPORT

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Test Dates: 08/03/21 – 09/13/21

DUT Type: Portable Handset

APPENDIX F: Page 16 of 18

F.5.2

DL Carrier Aggregation with DL 4x4 MIMO RF Conducted Powers



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

**Table F-29
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 (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. active	ULCA Tx Power (dBm)
CA_66B	LTE B66	10	132622	1775	QPSK	1	0	67086	2175	4x4	LTE B66	10	132523	1765.1	QPSK	1	49	66987	2165.1	4x4	24.19	24.19
CA_66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4	LTE B66	20	132374	1750.2	QPSK	1	99	66838	2150.2	4x4	24.31	24.31

Combination	PCC									SCC							Power					
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56207	3646.7	QPSK	50	50	56207	3646.7	4x4	LTE B48	20	56405	3666.5	QPSK	50	0	56405	3666.5	4x4	22.00	22.00

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) 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]	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]	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. active	ULCA Tx Power (dBm)			
CA_41C	LTE B41	20	41492	2680	QPSK	1	0	41500	2680	4x4	LTE B41	20	41322	2662.2	QPSK	1	99	41322	2662.2	4x4	LTE B41	20	41304	2644.4	2x2	LTE B41	20	39750	2520	4x4	-	-	-	-	-	-	-	-	-	-	-	-	24.09	24.09	
CA_41C(1)	LTE B41	20	41492	2680	QPSK	1	0	41500	2680	2x2	LTE B41	20	41304	2644.4	QPSK	1	99	41304	2644.4	2x2	LTE B41	20	39750	2520	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.09	24.09	
CA_41C(1)(1)	LTE B41	20	41492	2680	QPSK	1	0	41500	2680	4x4	LTE B41	20	41322	2662.2	QPSK	1	99	41322	2662.2	4x4	LTE B41	20	41304	2644.4	2x2	LTE B41	20	39750	2520	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	24.31	24.31
CA_41C(1)(1)(1)	LTE B41	20	41492	2680	QPSK	1	0	41500	2680	4x4	LTE B41	20	41304	2644.4	QPSK	1	99	41304	2644.4	4x4	LTE B41	20	39750	2520	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.31	24.31
CA_41C(1)(1)(1)(1)	LTE B41	20	41492	2680	QPSK	1	0	41500	2680	4x4	LTE B41	20	41322	2662.2	QPSK	1	99	41322	2662.2	4x4	LTE B41	20	41304	2644.4	2x2	LTE B41	20	39750	2520	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	24.31	24.31

FCC ID: A3LSMF711U1	 Proud to be part of 	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 08/03/21 – 09/13/21	DUT Type: Portable Handset		APPENDIX F: Page 18 of 18