

#### APPENDIX H: LTE DOWNLINK CA RF CONDUCTED POWERS

### LTE Downlink Only Carrier Aggregation Test Reduction Methodology

Per October 2024 TCBC Workshop Notes, the use of Carrier Aggregation (CA, hereafter) requires ensuring that the applicable rules are met in each portion of the spectrum that is used by each component carrier. CA can be applied to both transmissions, or uplink (UL) from the device under test perspective and reception, or downlink (DL). For FCC compliance, only UL operations are relevant. It is possible that in some cases the DL impacts the available options for UL. Therefore, spot-check conducted power measurements will be evaluated.

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

#### LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA\_2A-2A-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 4x4 Downlink MIMO operations were measured and represent the worst-case to cover all SISO configurations with the same bands and component carriers.
- Evaluate MIMO combinations with the maximum number of frequency bands, component carriers, and largest aggregated bandwidth to represent worst-case scenarios for spot-check measurements.

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| Column | C

Table H-1 - Exclusion Table for MIMO Configurations for Spot-check Measurements

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

#### H.1 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

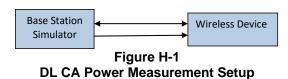
Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the maximum average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

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#### General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in the RF Conducted Powers Section and LTE/NR Lower Bandwidth RF Conducted Power Appendix. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, the 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.



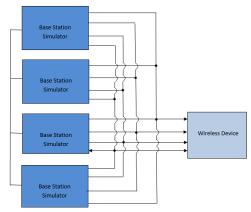


Figure H-2
DL CA with DL 4x4 MIMO Power Measurement Setup

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### H.2 Downlink Carrier Aggregation RF Conducted Powers

#### H.2.1 LTE Band 71 as PCC

### Table H-2 Maximum Output Powers

						PCC							SCC 1					SCC 2					SCC 3					SCC 4			Pov	ver
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offse	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.		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 IZALIZALIZALIRRALZIA	LTF B71	- 5	133147	665.5	16OAM	- 1	12	68611	619.5	202	LTF B66	20	66786	2145	414	LTF B2	20	900	1960	414	LTF R2	20	700	1940	444	LTF B7	20	3100	2655	4×4	20.13	21.01

#### H.2.2 LTE Band 12 as PCC

# Table H-3 Maximum Output Powers

						PCC							SCC 1					SCC 2					SCC 3					SCC 4			Po	ower
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.			PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_[2A]-[2A]-[7A]-12A-[66A]	LTE B12	5	23155	713.5	16QAM	- 1	12	5155	743.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B7	20	3100	2655	4x4	LTE B66	20	66786	2145	4x4	18.65	19.47
CA_[2A]-[2A]-12A-[30A]-[66A]	LTE B12	5	23155	713.5	16QAM	1	12	5155	743.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	18.60	19.47
CA_[2A]-[2A]-12A-[66A]-[66A]	LTE B12	5	23155	713.5	16QAM	- 1	12	5155	743.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	18.63	19.47
CA_[2A]-12A-[30A]-[66A]-[66A]	LTE B12	5	23155	713.5	16QAM	- 1	12	5155	743.5	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	18.64	19.47

#### H.2.3 LTE Band 13 as PCC

### Table H-4 Maximum Output Powers

						PCC							SCC 1					SCC 2					SCC 3					SCC 4			Por	wer
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 (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]		LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_[2A]-[2A]-13A-[66A]-[66A]	LTE B13	10	23230	782	16QAM	25	12	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	21.31	21.28
CA_[2A]-[7A]-[7A]-13A-[66A]	LTE B13	10	23230	782	16QAM	25	12	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B7	20	2850	2630	4x4	LTE B7	20	3100	2655	4x4	LTE B66	20	66536	2120	4x4	21.36	21.28
CA_13A-[48D]-[66A]	LTE B13	10	23230	782	16QAM	25	12	5230	751	2x2	LTE B48	20	55990	3625	4x4	LTE B48	20	56188	3644.8	4x4	LTE B48	20	56386	3664.6	4x4	LTE B66	20	66786	2145	4x4	20.37	21.28
CA 13A/48F1	LTF B13	10	23230	782	16OAM	25	12	5230	751	202	LTF B48	20	55990	3625	414	LTF B48	20	56188	3644.8	4v4	LTF B48	20	56386	3864.6	444	LTF B48	20	58584	3684.4	4×4	21 39	21.28

#### H.2.4 LTE Band 14 as PCC

### Table H-5 Maximum Output Powers

							PCC							SCC 1					SCC 2					SCC 3					SCC 4			Po	wer
	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 (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 [MH2]	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_[2A]-[2A]-14A-[30A]-[66A]	LTE B14	5	23330	793	16QAM	1	12	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	20.33	21.14
	CA_[2A]-[2A]-14A-[66A]-[66A]	LTE B14	5	23330	793	16QAM	- 1	12	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	20.29	21.14
C	A_[2A]-14A-[30A]-[66A]-[66A]	LTE B14	5	23330	793	16QAM	1	12	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	20.27	21.14

#### H.2.5 LTE Band 5 as PCC

# Table H-6 Maximum Output Powers

						PCC							SCC 1					SCC 2					SCC 3					SCC 4			Po	ower
Combination	PCC Band	PCC BW [MHz]		PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB		PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_[2A]-[2A]-5A-[30A]-[66A]	LTE B5	5	20525	836.5	256QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	19.62	19.72
CA_[2A]-[2A]-5A-[66A]-[66A]	LTE B5	5	20525	836.5	256QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	19.56	19.72
CA_[2A]-[2A]-5A-[66B]	LTE B5	5	20525	836.5	256QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	15	66786	2145	4x4	LTE B66	5	66879	2154.3	4x4	19.50	19.72
CA_[2A]-[2A]-5A-[66C]	LTE B5	5	20525	836.5	256QAM	- 1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	19.59	19.72
CA_[2A]-5A-[7A]-[7A]-[66A]	LTE B5	5	20525	836.5	256QAM	1	12	2525	881.5	2x2	LTE B7	20	2850	2630	4x4	LTE B2	20	900	1960	4x4	LTE B7	20	3152	2660.2	4x4	LTE B66	20	66536	2120	4x4	19.61	19.72
CA_[2A]-5A-[30A]-[66A]-[66A]	LTE B5	5	20525	836.5	256QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	19.53	19.72
CA_[2A]-5A-[48A]-[66A]-[66A]	LTE B5	5	20525	836.5	256QAM	1	12	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	19.25	19.72
CA_5A-[7C]-[66A]-[66A]	LTE B5	5	20525	836.5	256QAM	1	12	2525	881.5	2x2	LTE B7	20	3100	2655	4x4	LTE B7	20	2902	2635.2	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	19.49	19.72
CA_5A-[48C]-[66A]-[66A]	LTE B5	5	20525	836.5	256QAM	1	12	2525	881.5	2)2	LTE B48	20	55990	3625	4x4	LTE B48	20	56188	3644.8	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	19.22	19.72

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#### H.2.6 LTE Band 66 as PCC

# **Table H-7 Maximum Output Powers**

						PCC							SCC 1			_ •		SCC 2					SCC 3					SCC 4			Do.	wer
Combination	PCC Band	PCC BW [MHz]	Ch.	PCC (UL) Freq. [MHz]	Mod.		PCC UL RB Offset		PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]		SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]		SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]		SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]		SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_[2A]-[2A]-5A-[30A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B5	10	2525	881.5	2x2	LTE B30	10	9820	2355	4x4	14.36	15.09
CA_[2A]-[2A]-5A-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B5	10	2525	881.5	2x2	14.33	15.09
CA_[2A]-[2A]-5A-[66B]	LTE B66	5	132322	1745	64QAM	- 1	12	66786	2145	4x4	LTE B66	15	66693	2135.7	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B5	10	2525	881.5	2x2	14.31	15.08
CA_[2A]-[2A]-5A-[66C]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B66	20	66588	2125.2	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B5	10	2525	881.5	2x2	14.30	15.09
CA_[2A]-[2A]-[7A]-12A-[66A]	LTE B66	20	132322	1745	64QAM	1	50	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B7	20	3100	2655	4x4	LTE B12	10	5095	737.5	2x2	14.27	15.09
CA_[2A]-[2A]-[7A]-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B7	20	3100	2655	4x4	LTE B66	20	66786	2145	4x4	14.26	15.09
CA_[2A]-[2A]-[7A]-[66A]-71A	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B7	20	3100	2655	4x4	LTE B71	20	68761	634.5	2x2	14.16	15.09
CA_[2A]-[2A]-12A-[30A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B12	10	5095	737.5	2x2	LTE B30	10	9820	2355	4x4	14.15	15.09
CA_[2A]-[2A]-12A-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B12	10	5095	737.5	2x2	14.13	15.09
CA_[2A]-[2A]-13A-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B13	10	5230	751	2x2	14.17	15.09
CA_[2A]-[2A]-14A-[30A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B14	10	5330	763	2x2	LTE B30	10	9820	2355	4x4	14.19	15.09
CA_[2A]-[2A]-14A-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B14	10	5330	763	212	14.14	15.09
CA_[2A]-[2A]-29A-[30A]-[66A]	LTE B66	20	132322	1745	64QAM	1	50	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	4x4	14.11	15.09
CA_[2A]-[2A]-29A-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	21/2	LTE B29	10	9715	722.5	4x4	LTE B66	20	66786	2145	4x4	14.18	15.09
CA_[2A]-5A-[7A]-[7A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	21/2	LTE B7	20	3100	2655	4x4	LTE B7	20	2850	2630	4x4	14.23	15.09
CA_[2A]-5A-[30A]-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B30	10	9820	2355	4x4	14.39	15.09
CA_[2A]-5A-[48A]-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B48	20	55990	3625	4x4	14.44	15.09
CA_[2A]-[7A]-[7A]-13A-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B13	10	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	4x4	LTE B7	20	2850	2630	4x4	14.28	15.09
CA_[2A]-[7A]-[7A]-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	4x4	LTE B7	20	2850	2630	4x4	14.26	15.09
CA_[2A]-[7C]-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	4x4	LTE B7	20	2902	2635.2	4x4	14.53	15.09
CA_[ZA]-14A-[3UA]-[66A]-	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	LTE B30	10	9820	2355	4x4	14.56	15.09
	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B14	10	5330	763	2x2	LTE B30	10	9820	2355	4x4	14.58	15.09
CA_[2A]-[48C]-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	14.34	15.09
CA_[2A]-[48D]-[66A]	LTE B66	20	132322	1745	64QAM	- 1	50	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	4x4	LTE B48	20	56188	3644.8	4x4	LTE B48	20	56386	3664.6	4x4	14.43	15.09
CA_5A-[7C]-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B5	10	2525	881.5	2x2	LTE B7	20	3100	2655	4x4	LTE B7	20	2902	2635.2	4x4	14.35	15.09
CA_5A-[48C]-[66A]-[66A]	LTE B66	20	132322	1745	64QAM	1	50	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B5	10	2525	881.5	21/2	LTE B48	20	55990	3625	4x4	LTE B48	20	56188	3644.8	4x4	14.40	15.09
CA_13A-[48D]-[66A]	LTE B66	20	132322	1745	64QAM	1	50	66786	2145	4x4	LTE B13	10	5230	751	2x2	LTE B48	20	55990	3625	4x4	LTE B48	20	56188	3644.8	4x4	LTE B48	20	56386	3664.6	4x4	14.36	15.09

#### H.2.7 LTE Band 25 as PCC

# Table H-8 Maximum Output Powers

						PCC							SCC 1					SCC 2					SCC 3					SCC 4			Por	wer
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 (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band			(**************************************		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]-[25A]-[41D]	LTE B25	10	26365	1882.5	64QAM	-	0	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	LTE B41	20	40422	2573.2	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	40818	2612.8	4x4	14.61	15.39

#### H.2.8 LTE Band 30 as PCC

# Table H-9 Maximum Output Powers

						PCC							SCC 1					SCC 2					SCC 3					SCC 4			Po	ower
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.		PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]		SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.		SCC BW [MHz]	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_[2A]-[2A]-5A-[30A]-[66A]	LTE B30	10	27710	2310	QPSK	25	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	13.24	13.29
CA_[2A]-[2A]-12A-[30A]-[66A]	LTE B30	10	27710	2310	QPSK	25	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	13.25	13.29
CA_[2A]-[2A]-14A-[30A]-[66A]	LTE B30	10	27710	2310	QPSK	25	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B14	10	5330	763	2x2	LTE B66	20	66786	2145	4x4	13.23	13.29
CA_[2A]-[2A]-29A-[30A]-[66A]	LTE B30	10	27710	2310	QPSK	25	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B29	10	9715	722.5	2x2	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	13.22	13.29
CA_[2A]-5A-[30A]-[66A]-[66A]	LTE B30	10	27710	2310	QPSK	25	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	13.27	13.29
CA_[2A]-12A-[30A]-[66A]-[66A]	LTE B30	10	27710	2310	QPSK	25	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	13.24	13.29
CA [2A]-14A-[30A]-[66A]-[66A]	LTE B30	10	27710	2310	QPSK	25	12	9820	2355	4x4	LTE B2	20	900	1960	4×4	LTE B14	10	5330	763	2x2	LTE B66	20	66786	2145	4×4	LTE B66	20	67236	2190	4x4	13.26	13.29

#### H.2.9 LTE Band 7 as PCC

# Table H-10 Maximum Output Powers

						PCC							SCC 1					SCC 2					SCC 3					SCC 4			Po	wer
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 (DL) Ch.	SCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL)	SCC (DL) Freq. [MHz]	DE AIIL.	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_[2A]-[2A]-[7A]-12A-[66A]	LTE B7	5	21425	2567.5	256QAM	- 1	12	3425	2687.5	4x4	LTE B2	20	900	1960	4×4	LTE B2	20	700	1940	4x4	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	11.63	12.34
CA_[2A]-[2A]-[7A]-[66A]-[66A]	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	67236	2190	4x4	LTE B66	20	66786	2145	4x4	11.66	12.34
CA_[2A]-5A-[7A]-[7A]-[66A]	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B7	20	3100	2655	4x4	LTE B66	20	66786	2145	4x4	11.55	12.34
CA_[2A]-[7A]-[7A]-13A-[66A]	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	4x4	LTE B7	20	2850	2630	4x4	LTE B2	20	900	1960	4x4	LTE B13	10	5230	751	2x2	LTE B66	20	67236	2190	4x4	11.52	12.34
CA_[2A]-[7A]-[7A]-[66A]-[66A]	LTE B7	5	21425	2567.5	256QAM	1	12	3425	2687.5	4x4	LTE B7	20	2850	2630	4x4	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	11.68	12.34
CA_[2A]-[7C]-[66A]-[66A]	LTE B7	15	20825	2507.5	64QAM	1	36	2825	2627.5	4x4	LTE B7	15	2975	2642.5	4x4	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	11.58	12.25
CA EA-ITCLISEALISEAL	LTE D7	15	20025	2507.5	64OAM	4	26	2025	2027 6	dvd	LTE D7	15	2075	2642.6	Avd	I TE DE	10	2525	001 E	2v2	I TE DGG	20	66796	2145	Avd	I TE DES	20	67226	2190	dvd	11.56	12.25

#### H.2.10 LTE Band 41 as PCC

# Table H-11 Maximum Output Powers

[							PCC							SCC 1					SCC 2					SCC 3					SCC 4			Po	wer
	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 (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
[	CA_[41C]-[41D]	LTE B41	20	40185	2549.5	QPSK	50	25	40185	2549.5	4x4	LTE B41	20	40383	2569.3	4x4	LTE B41	20	41094	2640.4	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41490	2680	4x4	14.14	14.59
ſ	CA [41D]-[41C]	LTE B41	20	40185	2549.5	QPSK	50	25	40185	2549.5	4x4	LTE B41	20	40383	2569.3	4x4	LTE B41	20	40581	2589.1	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41490	2680	4x4	14.18	14.59

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#### H.3 Additional Downlink Carrier Aggregation with Uplink Carrier Aggregation Enabled

This device supports uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with ULCA active and additional CA configurations active in the downlink for the configuration per Fall 2017 TCB Workshop Notes. Per FCC Guidance, additional SAR measurements for these configurations were not required since their maximum output power was not more than 0.25 dB higher than the maximum output power for with only CA\_7C, CA\_41C, or CA\_48C ULCA active.

# H.3.1 Additional 4x4 MIMO DL Carrier Aggregation RF Conducted Powers with Uplink Carrier Aggregation Enabled

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

### Table H-12 Maximum Output Powers

						PCC									- 5	SCC 1						wer
Combination	PCC Band	PCC BW [MHz]	PCC (III) Ch	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.		SCC BW [MHz]	SCC	SCC (UL) Freq. [MHz]	Mod	SCC UL#	SCC UL RB Offset	SCC (DL)	SCC (DL) Freq. [MHz]	DL Ant. Config.	ULCA Tx.Power with DL CA Enabled	ULCA Tx Power (dBm)
CA_[7C]	LTE B7	20	21350	2560	QPSK	50	0	3350	2680	4x4	LTE B7	20	21152	2540.2	QPSK	50	50	3152	2660.2	4x4	12.60	12.60

### Table H-13 Maximum Output Powers

						PCC							SCC 1										SCC 2					SCC 3					SCC 4			Pos	wer
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC ULII 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 (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.	ULCA Tx.Power with DL CA Enabled (dBm)	ULCA Tx Power (dBm)
CA_[41C]-[41A]	LTE B41	20	41490	2680	QPSX	50	0	41490	2680	4X4	LTE B41	20	41292	2660.2	QPSX	50	50	41292	2660.2	4x4	LTE B41	20	40620	2593	4x4		-		-						-	13.91	13.89
CA_[41D]-[41A]	LTE B41	20	41490	2680	QPSX	50	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSX	50	50	41292	2660.2	4x4	LTE B41	20	41094	2640.4	4x4	LTE B41	20	40620	2593	4x4				-		13.87	13.89
CA_[41C]-[41C]	LTE B41	20	41490	2680	QPSX	50	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSX	50	50	41292	2660.2	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	40818	2612.8	4x4						13.85	13.89
CA_[41E]	LTE B41	20	41490	2680	QPSX	50	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSX	50	50	41292	2660.2	4x4	LTE B41	20	41094	2640.4	4x4	LTE B41	20	40896	2620.6	4x4						13.88	13.89
CA_[41C]-[41D]	LTE B41	20	41490	2680	QPSK	50	0	41490	2680	4x4	LTE B41	20			QPSX	50	50	41292	2660.2	4x4	LTE B41	20	40620	2593	4x4	LTE B41		40818			LTE B41	20	41016	2632.6	4x4	13.90	13.89
CA_[41D]-[41C]	LTE B41	20	41490	2680	QPSX	50	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSX	50	50	41292	2660.2	4x4	LTE B41	20	41094	2640.4	414	LTE B41	20	40620	2593	404	LTE B41	20	40818	2573.2	4X4	13.86	13.89

# Table H-14 Maximum Output Powers

Combination PCC Band   PCC Band																																	
	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]		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 (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	ULCA Tx.Power with DL CA Enabled (dBm)	ULCA Tx Power (dBm)
CA_[48C] LTE B48 20 5660 3690 QPSK 50 0 5660 3690 4x4 LTE B48 20 5642 36702 QPSK 50 50 56442 3670.2 4x4 · · · · · · · · · · · · · · · · · ·	CA_[48C]	LTE B48	20	56640	3690	QPSK	50	0	56640	3690	4x4	LTE B48	20	56442	3670.2	QPSK	50	50	56442	3670.2	4x4											12.64	12.64
CA_[48D] LTE B48 20 56640 3690 QPSK 50 0 56640 3690 4x4 LTE B48 20 56642 3670.2 QPSK 50 50 5642 3670.2 4x4 LTE B48 20 56244 3650.4 4x4 · · · · · 12.66	CA_[48D]	LTE B48	20	56640	3690	QPSK	50	0	56640	3690	4x4	LTE B48	20	56442	3670.2	QPSK	50	50	56442	3670.2	4x4	LTE B48	20	56244	3650.4	4x4						12.66	12.64
CA_[48E] LTE B48 20 56640 3690 QPSK 50 0 56640 3690 444 LTE B48 20 56442 3670.2 QPSK 50 0 56442 3670.2 QPSK 50 50 56442 3670.2 444 LTE B48 20 56344 3650.4 444 LTE B48 20 56046 3630.6 444 12.65	CA_[48E]	LTE B48	20	56640	3690	QPSK	50	0	56640	3690	4x4	LTE B48	20	56442	3670.2	QPSK	50	50	56442	3670.2	4x4	LTE B48	20	56244	3650.4	4x4	LTE B48	20	56046	3630.6	4x4	12.65	12.64

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#### H.4 Downlink Carrier Aggregation with Inter-band Uplink Carrier Aggregation enabled

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

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

#### H.4.1 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 H-15
Maximum Output Powers

						PCC										SCC								900.3					9003					3CC 6			Av	MARK .			Pagel	
	Combination	PCC Band	PCC Bandwidth [MHs]	PCC(UL) Channel	PCC(UL) Frequency (MMs)	Modulation	PCC USE MB	PCCUL RB Office	PCC (DL) Channel	PCC (CL) Frequency [MHs]	DL And. Config.	SCC Band	SCC Bandwid [MHs]	sec (US)	SCC (LIL) Freq. [509]	Medulatio	a SCC UUFR	SCC UL S	m scc (ox) Channel	SCC (DL) Prequency (MHG)	DL Avil. Config.	SCERand	SCC Bandwid [596]	SCC(DL) Channel	SCC(DL) Frequency (SMG)	DL Avil. Config.	SCC Band	SCC Bandwidds (MHs)	SCC (OL) Channel	SCC (DL) Proquency [MH4]	DL AAL Config	SCC Band	SCC Mandwidth (MHG)	SCC (DL) Channel	scc(oc) frequency (MHz)	DLAME. Config.	PCCAMI	SCC Ave	- pass	CA wither	LTE Interband ULC	ca tx Power (dite)
																																				1	4	4	PCC	300	PCC PCC Target	SCC SCCTarget
CA DIOCININA/MENINA/	CA (3A)-(3A)-5A-(66A)-(66A)	175.90	10	20525	8365	OPIX	1	25	2525	893.5	2x2	170.02	20	18900	1882	OPIX	- 1	10	900	1992	645	170 92	20	900	2962	9.5	171 866	20	66796	2365	045	171 866	20	67236	2290	0.5	- 4	2	19.30	24.87	29.83 29.00	16.99 16.90
CA CINCCINI 10A CIDAH (MAC	CA (3A) (3A) 944 (8BA) (86A)	175 900	10	23332	793	QMX	- 1	23	5332	793	2x2	170.92	20	19900	1882	OPIX	- 1	10	900	1992	010	170 92	20	300	2902	0.5	175 830	10	1920	2335	010	171 866	20	95.785	23.00	0.5	-	2	20.66	35.97	20.75 21.33	16.99 16.90
CK_DIRPORT TOK (SOM) (SEA)	CA (3A)-(3A)-544-185A)-(66A)	1.79 9.10	10	23332	793	QMX	1	25	5332	793	2x2	LTE 800	10	27750	2100	QFIX	- 1	25	1922	2355	6+6	LTS 92	20	100	2962	0.0	LTS 92	20	700	1903	6+6	171 866	20	99.799	21.05	64	4	2	20.82	12.00	20.75 21.10	12.01 12.10
CA_(DA)(DA)-16A-(MA)(MA)	CA (3A)-(3A)-04A-(8BA)-(86A)	LTE 916	10	23332	790	QMX	1	25	5332	793	2x2	C78 8100	20	182832	176	QFIX	- 1	30	66799	2345	6+5	LTE 92	20	900	2960	0.0	LTE 92	20	720	1963	6+5	LTE BIRD	30	9830	2855	0.0	- 4	2	20.67	24.38	20.75 21.32	1648 1630
CA DECEMBER OR CONTINUE	CA (3A)-(3A)-944-(8BA)-(86A)	176 930	10	27733	2302	OPE	1	25	9822	2000	016	178 876	10	23330	798	OPIX	- 1	25	5332	788	2x2	170 92	20	900	2962	0.5	1.79 92	20	720	1992	0:0	171 866	20	96.789	220	0.5	-	2	11.80	29.63	11.25 11.42	15.65 15.60
CA CINCCINI 10A CIDAH (MAX	CA (2A)-(2A)-04A-(3DA)-(96A)	170 800	20	182922	176	QMX	- 1	32	66.785	2065	016	178 816	10	23330	798	OPIX	- 1	23	5332	795	242	170 92	20	900	2962	0.5	179.92	20	720	1992	010	171 830	22	9830	2355	0.5	-	2	16.68	27.0	16.78 16.80	18.65 18.60
CA CINCCINI 10A-088AI-188A	CA (2A) (2A) 944-166A) (66A)	175 900	10	23332	793	QMX	- 1	23	5332	793	2x2	170.92	20	19900	1882	OPIX	- 1	10	900	1992	010	170 92	20	300	2902	0.5	171 266	20	56,799	2365	010	171 866	20	67236	2290	0.5	-	2	20.79	31.88	20.75 21.33	16.99 16.90
CA CINCCINI 10A (68A) (68A)	PA (1981/1981, NAC-19681, 1968)	175 900	10	23332	793	QMX	- 1	23	5332	793	2x2	178 866	20	182822	170	OPIX	- 1	10	95789	2365	645	170 92	20	900	2962	0.5	17192	20	720	1992	010	171 866	20	67236	2290	0.5		2	20.78	35.65	20.75 21.10	16.07 16.30
CA, DIRPORT TOK (BEA) (BEA)	CA (3A)-(3A)-94A-166A)-(66A)	170 946	20	110103	176	QMX	1	90	66.785	2565	6x6	L79 8/16	10	23330	798	QPIK	- 1	25	5332	798	2x2	LTS 92	20	100	2962	64	L7E 92	20	700	1963	6+5	171 866	20	67236	2190	64	- 4	2	14.70	29.40	16.78 16.90	18.45 18.40
CA 12KI-16A-030A-18BAN-98BA	CA (SANSAR-CROS-HIBANIBA)	175 800	10	23332	793	OPE	1	25	5332	793	2x2	170.92	20	18900	1882	OPIX	- 1	10	900	1992	645	170 930	10	1922	2355	0.5	171 866	20	66796	2365	0:0	171 866	20	67236	2290	0.5	-	2	20.78	34.98	20.75 21.32	16.99 16.90
CA 1290-168-CRORNINGAD-RIGHT	CA (SACHAR-CRORHESSAHSSA)	175 800	10	23332	793	QMX	- 1	23	5332	793	2x2	LTE 830	10	27750	2100	OPIX	- 1	23	1922	2355	010	170 92	20	900	2962	0.5	171 266	20	16,799	2365	010	171 866	20	67236	2230	0.5	-	2	20.81	11.91	20.75 21.10	12.01 12.10
CA 1290-168-CRORD-READ-READ-READ-READ-READ-READ-READ-RE	CA (SACHAR-CRORHESSAHSSA)	175 900	10	23332	793	QMX	- 1	23	5332	793	2x2	178 866	20	182932	170	OPIX	- 1	10	95789	2365	010	170 92	20	900	2962	0.5	175 830	10	1920	2335	010	171 866	20	67236	2290	0.5	-	2	20.82	35.66	20.75 21.33	16.07 16.30
CA 1290-169-CROKE-1869-1869	CA (SACHAR-CRORHIBBAHIBBA)	176 930	10	27733	2102	QMX	- 1	23	1922	2000	016	178 8116	10	23330	795	OPIX	- 1	25	5332	795	242	170 92	20	900	2992	0.5	171 266	20	66799	2365	010	171 866	20	67236	2290	0.5		2	11.20	27.01	13.25 13.60	15.65 15.60
CA, JZR)-16A-(30A) (MAQ-(MA	CA (DA)16A (DOA)18BA(18BA)	170 946	20	110103	176	QMX	1	90	66.785	2565	6x6	L79 8/16	10	23330	798	QPIK	- 1	25	5332	798	2x2	LTS 92	20	100	2962	64	LTE 830	10	1920	2355	6+5	171 866	20	67236	2190	64	- 4	2	14.66	29.39	16.78 16.90	18.65 18.60

FCC ID: BCGA3269	SAR EVALUATION REPORT	Approved by:
	OAR EVALOATION REPORT	Technical Manager
DUT Type:		APPENDIX H:
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