APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

1) The network analyzer and probe system was configured and calibrated.
2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
3) The complex admittance with respect to the probe aperture was measured
4) The complex relative permittivity ε' can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\varepsilon_r\varepsilon_0}{[\ln(b/a)]^2}\int_a^b\int_a^b\int_0^\pi \cos\phi' \frac{\exp\left[-j\omega r(\mu_0\varepsilon_r^{'}\varepsilon_0)^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

Table D-I
Composition of the Tissue Equivalent Matter

Frequency (MHz)	750	750	835	835	1750	1750	1900	1900	2450	2450	3500 - 5800	3500 - 5800
Tissue	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Ingredients (% by weight)												
Bactericide	See page 2-3	See page 2	0.1	0.1					See page 4		See page 5	See page 6
DGBE					47	31	44.92	29.44		26.7		
HEC			1	1								
NaCl			1.45	0.94	0.4	0.2	0.18	0.39		0.1		
Sucrose			57	44.9								
Polysorbate (Tween) 80												
Water			40.45	53.06	52.6	68.8	54.9	70.17		73.2		

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2 Composition / Information on ingredients

The Item is composed of the following ingredients:

H_2O	Water, 35 – 58%
Sucrose	Sugar, white, refined, 40 – 60%
NaCl	Sodium Chloride, 0 – 6%
Hydroxyethyl-cellulose	Medium Viscosity (CAS# 9004-62-0), <0.3%
Preventol-D7	Preservative: aqueous preparation, (CAS# 55965-84-9), containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyyl-3(2H)-isothiazolone, 0.1 – 0.7%
	Relevant for safety; Refer to the respective Safety Data Sheet*.

Figure D-1
Composition of 750 MHz Head and Body Tissue Equivalent Matter

Note: 750MHz liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

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Measurement Certificate / Material Test

Item Name	**Body Tissue Simulating Liquid (MSL750V2)**
Product No.	SL AAM 075 AA (Batch: 170608-1)
Manufacturer	SPEAG

Measurement Method
TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation
Validation results were within ± 2.5% towards the target values of Methanol.

Target Parameters
Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

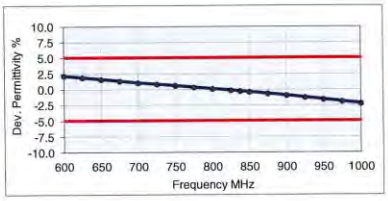
Test Condition

Ambient	Environment temperatur (22 ± 3)°C and humidity < 70%.
TSL Temperature	22°C
Test Date	20-Jun-17
Operator	CL

Additional Information

TSL Density	1.212 g/cm^3
TSL Heat-capacity	3.006 kJ/(kg*K)

	Measured			Target		Diff.to Target [%]	
f [MHz]	e'	e"	sigma	eps	sigma	Δ-eps	Δ-sigma
600	57.3	25.02	0.84	56.1	0.95	2.2	-12.2
625	57.1	24.67	0.86	56.0	0.95	1.9	-10.1
650	56.8	24.32	0.88	55.9	0.96	1.6	-8.0
675	56.6	24.02	0.90	55.8	0.96	1.3	-5.8
700	56.3	23.71	0.92	55.7	0.96	1.1	-3.8
725	56.1	23.48	0.95	55.6	0.96	0.8	-1.5
750	55.9	23.25	0.97	55.5	0.96	0.6	0.7
775	55.6	23.04	0.99	55.4	0.97	0.3	2.9
800	55.4	22.82	1.02	55.3	0.97	0.1	5.0
825	55.2	22.65	1.04	55.2	0.98	-0.1	6.3
838	55.1	22.56	1.05	55.2	0.98	-0.3	6.9
850	54.9	22.47	1.06	55.2	0.99	-0.4	7.5
875	54.7	22.34	1.09	55.1	1.02	-0.7	6.7
900	54.5	22.21	1.11	55.0	1.05	-0.9	5.9
925	54.3	22.08	1.14	55.0	1.06	-1.3	6.9
950	54.1	21.95	1.16	54.9	1.08	-1.6	7.9
975	53.8	21.86	1.19	54.9	1.09	-1.9	9.1
1000	53.6	21.76	1.21	54.8	1.10	-2.2	10.2



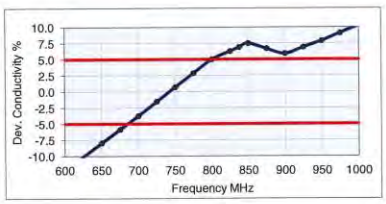


Figure D-2
750MHz Body Tissue Equivalent Matter

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Measurement Certificate / Material Test

Item Name	**Head Tissue Simulating Liquid (HSL750V2)**
Product No.	SL AAH 075 AA (Batch: 170612-4)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

Validation results were within ± 2.5% towards the target values of Methanol.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

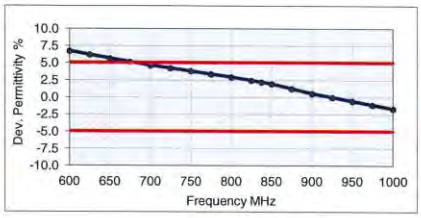
Test Condition

Ambient	Environment temperatur (22 ± 3)°C and humidity < 70%.
TSL Temperature	22°C
Test Date	20-Jun-17
Operator	CL

Additional Information

TSL Density	1.284 g/cm^3
TSL Heat-capacity	2.701 kJ/(kg*K)

	Measured			Target		Diff.to Target [%]	
f [MHz]	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
600	45.6	22.97	0.77	42.7	0.88	6.7	-13.1
625	45.2	22.73	0.79	42.6	0.88	6.2	-10.6
650	44.9	22.49	0.81	42.5	0.89	5.6	-8.2
675	44.5	22.27	0.84	42.3	0.89	5.1	-5.8
700	44.2	22.05	0.86	42.2	0.89	4.6	-3.5
725	43.8	21.88	0.88	42.1	0.89	4.2	-1.0
750	43.5	21.72	0.91	41.9	0.89	3.8	1.4
775	43.2	21.55	0.93	41.8	0.90	3.4	3.7
800	42.9	21.38	0.95	41.7	0.90	2.9	6.0
825	42.6	21.24	0.97	41.6	0.91	2.4	7.5
838	42.5	21.17	0.99	41.5	0.91	2.2	8.2
850	42.3	21.09	1.00	41.5	0.92	2.0	8.9
875	42.0	20.98	1.02	41.5	0.94	1.2	8.3
900	41.7	20.87	1.05	41.5	0.97	0.5	7.7
925	41.5	20.76	1.07	41.5	0.98	0.0	8.7
950	41.2	20.64	1.09	41.4	0.99	-0.6	9.7
975	40.9	20.55	1.11	41.4	1.00	-1.1	10.9
1000	40.6	20.46	1.14	41.3	1.01	-1.7	12.1



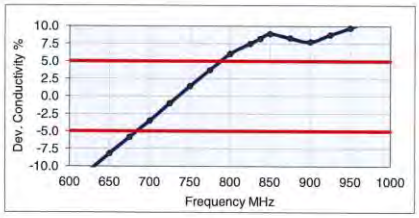


Figure D-3
750MHz Head Tissue Equivalent Matter

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3 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water	50 – 73 %	
Non-ionic detergents	25 – 50 %	polyoxyethylenesorbitan monolaurate
NaCl	0 – 2 %	
Preservative	0.05 – 0.1%	Preventol-D7

Safety relevant ingredients:

CAS-No. 55965-84-9	< 0.1 %	aqueous preparation, containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyyl-3(2H)-isothiazolone
CAS-No. 9005-64-5	<50 %	polyoxyethylenesorbitan monolaurate

According to international guidelines, the product is not a dangerous mixture and therefore not required to be marked by symbols.

Figure D-4
Composition of 2.4 GHz Head Tissue Equivalent Matter

Note: 2.4 GHz head liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

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Measurement Certificate / Material Test

Item Name	**Head Tissue Simulating Liquid (HBBL1900-3800V3)**
Product No.	SL AAH 196 AB (Batch: 170619-1)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

Validation results were within ± 2.5% towards the target values of Methanol.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

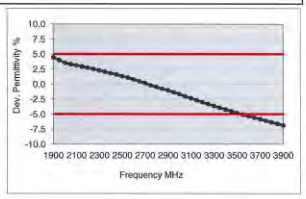
Test Condition

Ambient	Environment temperatur (22 ± 3)°C and humidity < 70%.
TSL Temperature	22°C
Test Date	20-Jun-17
Operator	CL

Additional Information

TSL Density 1.054 g/cm^3
TSL Heat-capacity 3.389 kJ/(kg*K)

	Measured			Target		Diff.to Target [%]	
f [MHz]	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
1900	41.8	12.2	1.3	40.0	1.4	4.5	-8.2
1950	41.6	12.3	1.3	40.0	1.4	4.0	-4.8
2000	41.4	12.4	1.4	40.0	1.4	3.6	-1.3
2050	41.2	12.6	1.4	39.9	1.4	3.3	-0.9
2100	41.1	12.7	1.5	39.8	1.5	3.1	-0.6
2150	40.9	12.8	1.5	39.7	1.5	2.9	-0.2
2200	40.7	12.9	1.6	39.6	1.6	2.7	0.2
2250	40.6	13.0	1.6	39.6	1.6	2.5	0.5
2300	40.4	13.2	1.7	39.5	1.7	2.3	1.1
2350	40.2	13.3	1.7	39.4	1.7	2.1	1.5
2400	40.0	13.4	1.8	39.3	1.8	1.8	2.1
2450	39.8	13.5	1.8	39.2	1.8	1.6	2.6
2500	39.7	13.7	1.9	39.1	1.9	1.3	2.6
2550	39.5	13.7	2.0	39.1	1.9	1.1	2.2
2600	39.3	13.9	2.0	39.0	2.0	0.8	2.5
2650	39.1	14.0	2.1	38.9	2.0	0.5	2.6
2700	39.0	14.2	2.1	38.9	2.1	0.2	2.7
2750	38.7	14.3	2.2	38.8	2.1	-0.2	2.6
2800	38.6	14.4	2.2	38.8	2.2	-0.4	2.5
2850	38.4	14.5	2.3	38.7	2.2	-0.8	2.6
2900	38.2	14.6	2.3	38.6	2.3	-1.0	2.6
2950	38.1	14.7	2.4	38.6	2.3	-1.3	2.6
3000	37.9	14.8	2.5	38.5	2.4	-1.7	2.6
3050	37.7	14.8	2.5	38.4	2.5	-2.0	2.8
3100	37.5	14.9	2.6	38.4	2.5	-2.3	2.8
3150	37.3	15.0	2.6	38.3	2.6	-2.6	2.9
3200	37.1	15.1	2.7	38.3	2.6	-3.0	2.9
3250	37.0	15.1	2.7	38.2	2.7	-3.3	3.0
3300	36.8	15.2	2.8	38.2	2.7	-3.6	3.1
3350	36.6	15.3	2.8	38.1	2.8	-3.9	3.2
3400	36.4	15.3	2.9	38.0	2.8	-4.2	3.3
3450	36.3	15.4	3.0	38.0	2.9	-4.5	3.4
3500	36.1	15.5	3.0	37.9	2.9	-4.8	3.5
3550	36.0	15.5	3.1	37.9	3.0	-5.0	3.6
3600	35.8	15.6	3.1	37.8	3.0	-5.3	3.8
3650	35.7	15.7	3.2	37.8	3.1	-5.6	3.7
3700	35.5	15.7	3.2	37.7	3.1	-5.8	3.9
3750	35.4	15.8	3.3	37.6	3.2	-6.1	3.9
3800	35.2	15.9	3.4	37.6	3.2	-6.3	4.1
3850	35.1	15.9	3.4	37.5	3.3	-6.6	4.1



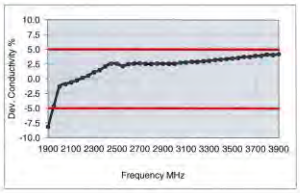


Figure D-5
2.4 GHz Head Tissue Equivalent Matter

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2 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water	50 – 65%
Mineral oil	10 – 30%
Emulsifiers	8 – 25%
Sodium salt	0 – 1.5%

Figure D-6
Composition of 3.5 – 5 GHz Head Tissue Equivalent Matter

Note: 3.5 – 5 GHz head liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

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Measurement Certificate / Material Test

Item Name	**Head Tissue Simulating Liquid (HBBL3500-5800V5)**
Product No.	SL AAH 502 AG (Batch: 170613-1)
Manufacturer	SPEAG

Measurement Method
TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation
Validation results were within ± 2.5% towards the target values of Methanol.

Target Parameters
Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

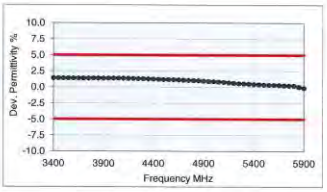
Test Condition

Ambient	Environment temperatur (22 ± 3)°C and humidity < 70%.
TSL Temperature	22°C
Test Date	20-Jun-17
Operator	CL

Additional Information

TSL Density	0.985 g/cm^3
TSL Heat-capacity	3.383 kJ/(kg*K)

	Measured			Target		Diff.to Target [%]	
f [MHz]	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
3400	38.6	15.03	2.84	38.0	2.81	1.5	1.1
3500	38.5	15.00	2.92	37.9	2.91	1.5	0.3
3600	38.3	14.98	3.00	37.8	3.02	1.3	-0.5
3700	38.2	14.96	3.08	37.7	3.12	1.3	-1.2
3800	38.1	14.96	3.16	37.6	3.22	1.4	-1.9
3900	38.0	14.95	3.24	37.5	3.32	1.4	-2.5
4000	37.9	14.95	3.33	37.4	3.43	1.5	-2.8
4100	37.8	14.96	3.41	37.2	3.53	1.5	-3.3
4200	37.6	15.00	3.50	37.1	3.63	1.3	-3.6
4300	37.5	15.05	3.60	37.0	3.73	1.3	-3.5
4400	37.4	15.11	3.70	36.9	3.84	1.4	-3.5
4500	37.2	15.18	3.80	36.8	3.94	1.1	-3.5
4600	37.1	15.24	3.90	36.7	4.04	1.2	-3.5
4700	37.0	15.29	4.00	36.6	4.14	1.2	-3.4
4800	36.8	15.35	4.10	36.4	4.25	1.0	-3.4
4850	36.8	15.35	4.14	36.4	4.30	1.1	-3.6
4900	36.7	15.38	4.19	36.3	4.35	1.0	-3.6
4950	36.6	15.39	4.24	36.3	4.40	0.9	-3.6
5000	36.5	15.42	4.29	36.2	4.45	0.8	-3.6
5050	36.5	15.43	4.34	36.2	4.50	0.9	-3.6
5100	36.4	15.46	4.39	36.1	4.55	0.8	-3.6
5150	36.3	15.48	4.43	36.0	4.60	0.7	-3.8
5200	36.2	15.50	4.48	36.0	4.66	0.6	-3.8
5250	36.1	15.53	4.54	35.9	4.71	0.5	-3.5
5300	36.1	15.55	4.58	35.9	4.76	0.6	-3.7
5350	36.0	15.56	4.63	35.8	4.81	0.5	-3.7
5400	35.9	15.57	4.68	35.8	4.86	0.4	-3.7
5450	35.9	15.59	4.73	35.7	4.91	0.6	-3.7
5500	35.8	15.61	4.78	35.6	4.96	0.4	-3.7
5550	35.7	15.65	4.83	35.6	5.01	0.3	-3.7
5600	35.6	15.66	4.88	35.5	5.07	0.2	-3.7
5650	35.6	15.70	4.93	35.5	5.12	0.4	-3.6
5700	35.5	15.72	4.98	35.4	5.17	0.2	-3.6
5750	35.4	15.76	5.04	35.4	5.22	0.1	-3.4
5800	35.4	15.78	5.09	35.3	5.27	0.3	-3.4
5850	35.3	15.81	5.14	35.3	5.34	0.0	-3.7
5900	35.3	15.82	5.19	35.3	5.40	0.0	-3.9



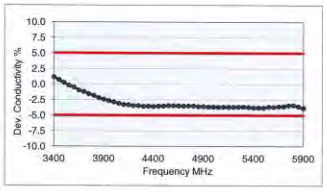


Figure D-7
3.5 – 5 GHz Head Tissue Equivalent Matter

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3 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water	60 – 80%
Esters, Emulsifiers, Inhibitors	20 – 40%
Sodium salt	0 – 1.5%

Figure D-8
Composition of 3.5 – 5 GHz Body Tissue Equivalent Matter

Note: 3.5 – 5 GHz Body liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

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Measurement Certificate / Material Test

Item Name	**Body Tissue Simulating Liquid (MBBL3500-5800V5)**
Product No.	SL AAM 501 EA (Batch: 180423-2)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

Validation results were within ± 2.5% towards the target values of Methanol.

Target Parameters

Target parameters as defined in the KDB 865664 compliance standard.

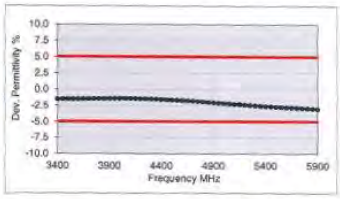
Test Condition

Ambient	Environment temperatur (22 ± 3)°C and humidity < 70%.
TSL Temperature	22°C
Test Date	25-Apr-18
Operator	WM

Additional Information

TSL Density	0.996 g/cm3
TSL Heat-capacity	3.765 kJ/(kg*K)

	Measured			Target		Diff.to Target [%]	
f [MHz]	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
3400	50.7	16.46	3.11	51.5	3.20	-1.5	-2.7
3500	50.5	16.50	3.21	51.3	3.31	-1.6	-3.1
3600	50.4	16.56	3.32	51.2	3.43	-1.5	-3.2
3700	50.3	16.63	3.42	51.1	3.55	-1.5	-3.6
3800	50.2	16.72	3.53	50.9	3.66	-1.4	-3.7
3900	50.1	16.81	3.65	50.8	3.78	-1.3	-3.5
4000	49.9	16.93	3.77	50.6	3.90	-1.5	-3.3
4100	49.8	17.05	3.89	50.5	4.01	-1.4	-3.1
4200	49.6	17.18	4.01	50.4	4.13	-1.5	-2.9
4300	49.5	17.32	4.14	50.2	4.25	-1.5	-2.5
4400	49.3	17.46	4.27	50.1	4.37	-1.6	-2.2
4500	49.2	17.59	4.40	50.0	4.48	-1.5	-1.8
4600	49.0	17.73	4.54	49.8	4.60	-1.7	-1.3
4700	48.8	17.86	4.67	49.7	4.72	-1.8	-1.0
4800	48.6	17.99	4.80	49.6	4.83	-1.9	-0.7
4850	48.5	18.05	4.87	49.5	4.89	-2.0	-0.4
4900	48.4	18.11	4.94	49.4	4.95	-2.1	-0.2
4950	48.3	18.17	5.00	49.4	5.01	-2.1	-0.1
5000	48.2	18.23	5.07	49.3	5.07	-2.2	0.1
5050	48.1	18.29	5.14	49.2	5.12	-2.3	0.3
5100	48.0	18.34	5.20	49.2	5.18	-2.3	0.3
5150	47.9	18.39	5.27	49.1	5.24	-2.4	0.6
5200	47.9	18.45	5.34	49.0	5.30	-2.3	0.8
5250	47.8	18.50	5.40	48.9	5.36	-2.3	0.8
5300	47.7	18.56	5.47	48.9	5.42	-2.4	1.0
5350	47.6	18.61	5.54	48.8	5.47	-2.5	1.2
5400	47.5	18.67	5.61	48.7	5.53	-2.5	1.4
5450	47.4	18.72	5.68	48.7	5.59	-2.6	1.6
5500	47.3	18.77	5.74	48.6	5.65	-2.7	1.6
5550	47.2	18.83	5.81	48.5	5.71	-2.8	1.8
5600	47.1	18.88	5.88	48.5	5.77	-2.8	2.0
5650	47.1	18.93	5.95	48.4	5.82	-2.7	2.1
5700	47.0	18.99	6.02	48.3	5.88	-2.6	2.3
5750	46.9	19.04	6.09	48.3	5.94	-2.8	2.5
5800	46.8	19.10	6.16	48.2	6.00	-2.9	2.7
5850	46.7	19.16	6.23	48.1	6.06	-3.0	2.8
5900	46.6	19.22	6.31	48.1	6.12	-3.0	3.2



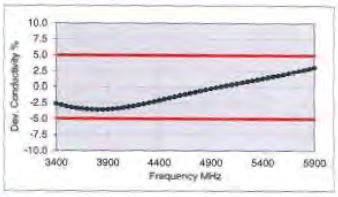


Figure D-9
3.5 – 5 GHz Body Tissue Equivalent Matter

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APPENDIX E: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table E-1
SAR System Validation Summary – 1g

SAR System	Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. (σ)	Perm. (εr)	CW VALIDATION			MOD. VALIDATION		
								SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
I	750	11/1/2018	7406	750	Head	0.898	42.449	PASS	PASS	PASS	N/A	N/A	N/A
L	835	11/12/2018	7308	835	Head	0.893	42.128	PASS	PASS	PASS	GMSK	PASS	N/A
M	1750	11/5/2018	3287	1750	Head	1.342	39.217	PASS	PASS	PASS	N/A	N/A	N/A
E	1900	5/22/2018	3213	1900	Head	1.447	38.909	PASS	PASS	PASS	GMSK	PASS	N/A
M	1900	11/5/2018	3287	1900	Head	1.43	39.014	PASS	PASS	PASS	GMSK	PASS	N/A
G	2300	8/8/2018	7410	2300	Head	1.701	40.133	PASS	PASS	PASS	N/A	N/A	N/A
G	2450	8/7/2018	7410	2450	Head	1.865	39.618	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
H	2450	8/8/2018	7409	2450	Head	1.844	40.474	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
G	2600	8/8/2018	7410	2600	Head	2.04	39.033	PASS	PASS	PASS	TDD	PASS	N/A
H	2600	8/9/2018	7409	2600	Head	1.914	38.662	PASS	PASS	PASS	TDD	PASS	N/A
H	3500	10/30/2018	3949	3500	Head	2.803	38.5	PASS	PASS	PASS	TDD	PASS	N/A
H	3700	10/30/2018	3949	3700	Head	2.997	38.156	PASS	PASS	PASS	TDD	PASS	N/A
H	5250	7/5/2018	7409	5250	Head	4.492	34.994	PASS	PASS	PASS	OFDM	N/A	PASS
H	5600	7/5/2018	7409	5600	Head	4.839	34.496	PASS	PASS	PASS	OFDM	N/A	PASS
H	5750	7/5/2018	7409	5750	Head	4.995	34.288	PASS	PASS	PASS	OFDM	N/A	PASS
I	750	7/19/2018	7406	750	Body	0.969	53.451	PASS	PASS	PASS	N/A	N/A	N/A
G	835	8/29/2018	7410	835	Body	0.956	54.177	PASS	PASS	PASS	GMSK	PASS	N/A
I	835	8/8/2018	7406	835	Body	0.98	53.497	PASS	PASS	PASS	GMSK	PASS	N/A
J	1750	9/5/2018	3347	1750	Body	1.454	53.515	PASS	PASS	PASS	N/A	N/A	N/A
H	1750	8/17/2018	7409	1750	Body	1.505	52.002	PASS	PASS	PASS	N/A	N/A	N/A
H	1900	9/25/2018	7409	1900	Body	1.541	50.669	PASS	PASS	PASS	GMSK	PASS	N/A
E	1900	8/9/2018	3213	1900	Body	1.57	51.136	PASS	PASS	PASS	GMSK	PASS	N/A
J	1900	8/30/2018	3347	1900	Body	1.566	52.424	PASS	PASS	PASS	GMSK	PASS	N/A
K	2300	4/3/2018	3319	2300	Body	1.871	51.575	PASS	PASS	PASS	N/A	N/A	N/A
K	2450	4/3/2018	3319	2450	Body	2.043	51.13	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
H	2450	11/2/2018	7409	2450	Body	1.989	51.193	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
H	2600	11/1/2018	7409	2600	Body	2.196	50.538	PASS	PASS	PASS	TDD	PASS	N/A
K	2600	4/3/2018	3319	2600	Body	2.225	50.665	PASS	PASS	PASS	TDD	PASS	N/A
L	3500	11/1/2018	3914	3500	Body	3.336	51.607	PASS	PASS	PASS	TDD	PASS	N/A
L	3700	11/2/2018	3914	3700	Body	3.55	51.31	PASS	PASS	PASS	TDD	PASS	N/A
D	5250	6/11/2018	7357	5250	Body	5.529	48.096	PASS	PASS	PASS	OFDM	N/A	PASS
D	5600	6/11/2018	7357	5600	Body	6.007	47.521	PASS	PASS	PASS	OFDM	N/A	PASS
D	5750	6/11/2018	7357	5750	Body	6.214	47.275	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

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APPENDIX G POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

G.1 Power Verification Procedure

The power verification was performed according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.

2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.

3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

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G.2 Main Antenna Verification Summary

Table G-1
Power Measurement Verification for Main Antenna

Mechanism(s)	Mode/Band	Conducted Power (dBm)	
1st		Un-triggered (Max)	Mechanism #1 (Reduced)
Hotspot On	PCS CDMA	23.51	19.47
Hotspot On	GPRS 1900	26.05	23.94
Hotspot On	UMTS 1750	24.17	19.13
Hotspot On	UMTS 1900	23.51	18.49
Hotspot On	LTE FDD Band 66	24.61	20.69
Hotspot On	LTE FDD Band 4	24.4	20.39
Hotspot On	LTE FDD Band 25	23.87	19.41
Hotspot On	LTE FDD Band 2	23.98	19.6
Hotspot On	LTE FDD Band 30	22.28	17.79
Hotspot On	LTE FDD Band 7	23.29	17.95
Hotspot On	LTE FDD Band 7 Ant A	23.41	18.1
Hotspot On	LTE TDD Band 48	23.29	20.46
Hotspot On	LTE TDD Band 41 (PC3)	23.15	20.52
Hotspot On	LTE TDD Band 41 (PC2)	26.04	20.51
Hotspot On	LTE TDD Band 38	23.57	20.49

G.3 WIFI Verification Summary

Table G-2
Power Measurement Verification WIFI

Mechanism(s)	Mode/Band	Conducted Power (dBm)	
1st		Un-triggered (Max)	Mechanism #1 (Reduced)
Held-to-Ear	802.11b	19.15	15.44
Held-to-Ear	802.11g	16.53	15.21
Held-to-Ear	802.11n (2.4GHz)	16.78	15.46
Held-to-Ear	802.11a	16.59	12.89
Held-to-Ear	802.11n (5GHz, 20MHz BW)	16.74	13.06
Held-to-Ear	802.11ac (20MHz BW)	16.84	12.91
Held-to-Ear	802.11n (5GHz, 40MHz BW)	16.1	12.63
Held-to-Ear	802.11ac (40MHz BW)	16.19	12.46
Held-to-Ear	802.11ac (80MHz BW)	14.62	12.57

*Note: 802.11ax and MIMO WIFI modes were not evaluated due to equipment limitations.

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APPENDIX H: DOWNLINK LTE CA RF CONDUCTED POWERS

1.1 LTE Downlink Only Carrier Aggregation Test Reduction Methodology

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

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.

Table 1 – Example of Exclusion Table for SISO Configurations

Index	2CC	Supported Channel Bandwidth [MHz]		Restriction	Completely Covered by Measurement Superset
		CC1	CC2		
2CC #1	CA_2C	5, 10, 15, 20	5, 10, 15, 20		2CC #6
2CC #2	CA_2A-5A	5, 10, 15, 20	5, 10		2CC #1
2CC #3	CA_2A-13A	5, 10, 15, 20	5, 10		2CC #3
2CC #4	CA_2A-13A	5, 10, 15, 20	10		2CC #9
2CC #5	CA_2A-17A	5, 10	5, 10		No
2CC #6	CA_2A-30A	5, 10, 15, 20	5, 10		2CC #14
2CC #8	CA_2A-66A (2)	5, 10, 15, 20	5, 10, 15, 20		2CC #1
2CC #9	CA_2A-71A	5, 10, 15, 20	5, 10, 15, 20		2CC #10
2CC #10	CA_4A-4A	5, 10, 15, 20	5, 10, 15, 20		2CC #5
2CC #11	CA_4A-5A (1)	5, 10, 15, 20	5, 10		4CC #1
2CC #12	CA_4A-12A (4)	5, 10, 15, 20	5, 10		2CC #8
2CC #13	CA_4A-13A	5, 10, 15, 20	10		2CC #9
2CC #14	CA_4A-17A	5, 10	5, 10	B27 SCC Only	No
2CC #15	CA_5B	5, 10	5, 10		2CC #1
2CC #16	CA_5A-25A	5, 10	5, 10, 15, 20		No
2CC #17	CA_7C	15, 20	15, 20		No
2CC #18	CA_7A-7A (1)	5, 10, 15, 20	5, 10, 15, 20		No
2CC #19	CA_7A-12A	5, 10, 15, 20	5, 10		2CC #12
2CC #20	CA_12B	5	5, 10		2CC #13
2CC #21	CA_13A-25A	5, 10	5, 10, 15, 20		No
2CC #22	CA_12A-30A	5, 10	5, 10		2CC #14
2CC #23	CA_41A-41A (1)	5, 10, 15, 20	5, 10, 15, 20		No

Index	3CC	Supported Channel Bandwidth [MHz]			Restriction	Completely Covered by Measurement Superset
		CC1	CC2	CC3		
3CC #1	CA_2A-2A-4A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		4CC #1
3CC #2	CA_2A-2A-5A	5, 10, 15, 20	5, 10, 15, 20	5, 10		4CC #1
3CC #3	CA_2A-2A-12A	5, 10, 15, 20	5, 10, 15, 20	5, 10		No
3CC #4	CA_2A-4A-66A	5, 10, 15, 20	5, 10, 15, 20	10		No
3CC #5	CA_2A-5A-66A	5, 10, 15, 20	5, 10, 15, 20	5, 10		No
3CC #6	CA_2A-4A-4A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #7	CA_2A-4A-5A	5, 10, 15, 20	5, 10, 15, 20	5, 10		4CC #1
3CC #8	CA_2A-4A-12A	5, 10, 15, 20	5, 10, 15, 20	5, 10		No
3CC #9	CA_2A-4A-13A	5, 10, 15, 20	5, 10, 15, 20	10		No
3CC #10	CA_2A-4A-17A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #11	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20	5, 10		No
3CC #12	CA_2A-5A-13A	5, 10, 15, 20	5, 10, 15, 20	5, 10		No
3CC #13	CA_2A-12B	5, 10, 15, 20	5	5, 10		No
3CC #14	CA_2A-12A-30A	5, 10, 15, 20	5, 10	5, 10		No
3CC #15	CA_4A-4A-5A	5, 10, 15, 20	5, 10, 15, 20	5, 10		No
3CC #16	CA_5B-30A	5, 10	5, 10	5, 10		3CC #1
3CC #17	CA_5B-66A	5, 10	5, 10	5, 10, 15, 20		3CC #1
3CC #18	CA_5A-30A-66A	5, 10	5, 10	5, 10, 15, 20		3CC #9
3CC #19	CA_12A-66C	5, 10	5, 10, 15, 20	5, 10, 15, 20		No
3CC #20	CA_66A-66A-66A	5, 10	5, 10, 15, 20	5, 10, 15, 20		3CC #9
3CC #21	CA_41D	10, 15, 20	10, 15, 20	10, 15, 20		No
3CC #22	CA_41A-41C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #23	CA_66D	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #24	CA_66A-66C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No

Index	4CC	Supported Channel Bandwidth [MHz]				Restriction	Completely Covered by Measurement Superset
		CC1	CC2	CC3	CC4		
4CC #1	CA_2A-2A-4A-5A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10		No
4CC #2	CA_2A-2A-4A-12A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10	B12 SCC Only	No
4CC #3	CA_2A-2A-5A-30A	5, 10, 15, 20	5, 10, 15, 20	5, 10	5, 10		No
4CC #4	CA_2A-2A-5A-66A	5, 10, 15, 20	5, 10, 15, 20	5, 10	5, 10, 15, 20		No
4CC #5	CA_2A-5B-30A	5, 10, 15, 20	5, 10	5, 10	5, 10		3CC #1
4CC #6	CA_2A-5B-66A	5, 10, 15, 20	5, 10	5, 10	5, 10, 15, 20		3CC #1
4CC #7	CA_5B-30A-66A	5, 10	5, 10	5, 10	5, 10		3CC #1
4CC #8	CA_5B-66A-66A	5, 10	5, 10	5, 10, 15, 20	5, 10, 15, 20		3CC #2
4CC #9	CA_5A-30A-66A-66A	5, 10	5, 10	5, 10, 15, 20	5, 10, 15, 20		No
4CC #10	CA_41E	15, 20	15, 20	15, 20	20		No

Index	5CC	Supported Channel Bandwidth [MHz]					Restriction	Completely Covered by Measurement Superset
		CC1	CC2	CC3	CC4	CC5		
5CC #1	CA_2A-5B-30A-66A	5, 10, 15, 20	5, 10	5, 10	5, 10	5, 10, 15, 20		No
5CC #2	CA_2A-5B-66A-66A	5, 10, 15, 20	5, 10	5, 10	5, 10, 15, 20	5, 10, 15, 20		No

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

Index	2CC	Supported Channel Bandwidth [MHz]		Restriction	Completely Covered by Measurement Superset
		CC1	CC2		
2CC #M1	CA_[2C]	5, 10, 15, 20	5, 10, 15, 20		3CC #M6
2CC #M2	CA_[2A]-2A	5, 10, 15, 20	5, 10, 15, 20		3CC #M1
2CC #M3	CA_[2A]-[2A]	5, 10, 15, 20	5, 10, 15, 20		No
2CC #M4	CA_[2A]-4A (2)	5, 10, 15, 20	5, 10, 15, 20		3CC #M1
2CC #M5	CA_[2A]-[4A] (2)	5, 10, 15, 20	5, 10, 15, 20		No
2CC #M6	CA_[2A]-5A	5, 10, 15, 20	5, 10		4CC #M3
2CC #M7	CA_[2A]-12A (1)	5, 10, 15, 20	3, 5, 10		No
2CC #M8	CA_[2A]-13A	5, 10, 15, 20	10		3CC #M4
2CC #M9	CA_[2A]-17A	5, 10	5, 10		No
2CC #M10	CA_[2A]-29A (2)	5, 10, 15, 20	5, 10	B29 SCC Only	3CC #M12
2CC #M11	CA_[2A]-30A	5, 10, 15, 20	5, 10		3CC #M5
2CC #M12	CA_[2A]-66A (2)	5, 10, 15, 20	5, 10, 15, 20		4CC #M1
2CC #M13	CA_2A-[66A] (2)	5, 10, 15, 20	5, 10, 15, 20		4CC #M2
2CC #M14	CA_[2A]-[66A] (2)	5, 10, 15, 20	5, 10, 15, 20		No
2CC #M15	CA_[2A]-71A	5, 10, 15, 20	5, 10, 15, 20		3CC #M11
2CC #M16	CA_5A-[66A]	5, 10	5, 10, 15, 20		3CC #M16
2CC #M17	CA_12A-[66A] (4)	5, 10	5, 10, 15, 20		3CC #M17
2CC #M18	CA_13A-[66A]	5, 10	5, 10, 15, 20		3CC #M19
2CC #M19	CA_30A-[66A]	5, 10	5, 10, 15, 20		3CC #M20
2CC #M20	CA_[66B]	5, 10, 15	5, 10, 15		4CC #M4
2CC #M21	CA_[66C]	5, 10, 15, 20	5, 10, 15, 20		4CC #M6
2CC #M22	CA_[66A]-66A	5, 10, 15, 20	5, 10, 15, 20		3CC #M28
2CC #M23	CA_[66A]-[66A]	5, 10, 15, 20	5, 10, 15, 20		No

Index	3CC	Supported Channel Bandwidth [MHz]			Restriction	Completely Covered by Measurement Superset
		CC1	CC2	CC3		
3CC #M1	CA_[2A]-2A-4A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #M2	CA_[2A]-2A-5A	5, 10, 15, 20	5, 10, 15, 20	5, 10		No
3CC #M3	CA_[2A]-2A-12A	5, 10, 15, 20	5, 10, 15, 20	5, 10		No
3CC #M4	CA_[2A]-2A-13A	5, 10, 15, 20	5, 10, 15, 20	10		No
3CC #M5	CA_[2A]-2A-30A	5, 10, 15, 20	5, 10, 15, 20	5, 10		No
3CC #M6	CA_[2C]-66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #M7	CA_2C-[66A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #M8	CA_[2C]-[66A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #M9	CA_[2A]-2A-66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #M10	CA_2A-2A-[66A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #M11	CA_[2A]-2A-71A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #M12	CA_[2A]-4A-29A	5, 10, 15, 20	5, 10, 15, 20	5, 10	B29 SCC Only	No
3CC #M13	CA_[2A]-4A-71A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #M14	CA_[2A]-5B	5, 10, 15, 20	5, 10, 15, 20	5, 10		4CC #M1
3CC #M15	CA_[2A]-5A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20		No
3CC #M16	CA_2A-5A-[66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20		No
3CC #M17	CA_2A-12A-[66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20		No
3CC #M18	CA_[2A]-13A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20		No
3CC #M19	CA_2A-13A-[66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20		No
3CC #M20	CA_2A-30A-[66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20		No
3CC #M21	CA_[2A]-66B	5, 10, 15, 20	5, 10, 15	5, 10, 15		4CC #M3
3CC #M22	CA_[2A]-[66B]	5, 10, 15, 20	5, 10, 15	5, 10, 15		4CC #M4
3CC #M23	CA_[2A]-[66B]	5, 10, 15, 20	5, 10, 15	5, 10, 15		No
3CC #M24	CA_[2A]-66C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		4CC #M5
3CC #M25	CA_2A-[66C]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		4CC #M6
3CC #M26	CA_[2A]-[66C]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #M27	CA_[2A]-66A-66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #M28	CA_2A-[66A]-66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No
3CC #M29	CA_[2A]-66A-71A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		No

Index	4CC	Supported Channel Bandwidth [MHz]				Restriction	Completely Covered by Measurement Superset
		CC1	CC2	CC3	CC4		
4CC #M1	CA_[2A]-5B-66A	5, 10, 15, 20	5, 10	5, 10	5, 10, 15, 20		No
4CC #M2	CA_2A-5B-[66A]	5, 10, 15, 20	5, 10	5, 10	5, 10, 15, 20		No
4CC #M3	CA_[2A]-5A-66B	5, 10, 15, 20	5, 10	5, 10, 15	5, 10, 15		No
4CC #M4	CA_2A-5A-[66B]	5, 10, 15, 20	5, 10	5, 10, 15	5, 10, 15		No
4CC #M5	CA_[2A]-5A-66C	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20		No
4CC #M6	CA_2A-5A-[66C]	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20		No

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

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1.2 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 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 KBD 941225 D05 V01r02. 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.

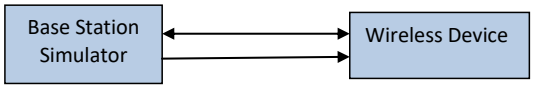

Figure 1
DL CA Power Measurement Setup

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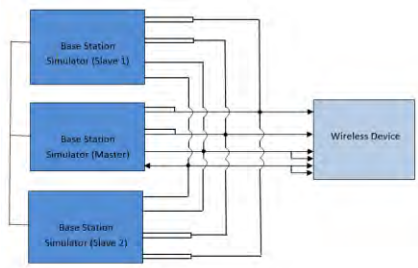

Figure 2
DL CA with DL 4x4 MIMO Power Measurement Setup

1.3 Downlink Carrier Aggregation RF Conducted Powers

1.3.1 LTE Band 71 as PCC

Table 1
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				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]	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	20	133297	680.5	QPSK	1	0	68761	634.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	24.66	24.62
CA_2A-2A-4A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	24.58	24.62
CA_2A-2A-66A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	24.70	24.62
CA_2A-66A-66A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.75	24.62
CA_2A-66C-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	24.73	24.62

1.3.2 LTE Band 12 as PCC

Table 2
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				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]	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	0	5035	731.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	24.65	24.59
CA_4A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	24.69	24.59
CA_4A-12A (2)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	24.68	24.59
CA_12A-25A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B25	20	8365	1962.5	-	-	-	-	-	-	-	-	-	-	-	-	24.68	24.59
CA_12A-66A (1)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	24.67	24.59
CA_12A-66A (2)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	24.67	24.59
CA_4A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	-	-	-	24.67	24.59
CA_2A-2A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	24.67	24.59
CA_2A-2A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	-	-	-	-	24.45	24.59
CA_2A-12A-66A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	24.56	24.59
CA_2A-12A-66C	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	24.66	24.59
CA_4A-7A-12B	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B12	5	5155	743.5	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	-	-	-	-	24.84	24.59
CA_2A-2A-7A-12A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B7	20	3100	2655	LTE B66	20	66786	2145	24.62	24.59
CA_2A-7A-12B-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B66	20	66786	2145	24.71	24.59

Note: ^ - Indicates that Band 7 operations are using antenna A

1.3.3 LTE Band 13 as PCC

Table 3
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				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]	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-13A-46A	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	24.57	24.40
CA_13A-46A-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B46	20	50665	5537.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	24.58	24.40
CA_2A-13A-46C	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	24.47	24.40
CA_2A-13A-66B	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	-	-	-	-	24.39	24.40
CA_2A-13A-66C	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	24.43	24.40
CA_13A-46C-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B66	20	66786	2145	-	-	-	-	24.54	24.40
CA_13A-48A-66B	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B48	20	55990	3625	LTE B66	5	66786	2145	LTE B66	15	66879	2154.3	-	-	-	-	24.42	24.40
CA_13A-48A-66C	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B48	20	55990	3625	LTE B66	20	66734	2139.8	LTE B66	20	66536	2120	-	-	-	-	24.41	24.40
CA_2A-2A-4A-4A-13A	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	24.35	24.40
CA_2A-2A-13A-66A-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.43	24.40
CA_2A-13A-46D	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	24.24	24.40
CA_2A-13A-48A-48C	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	56640	3690	LTE B48	20	56442	3670.2	24.44	24.40
CA_2A-13A-48D	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	24.37	24.40
CA_2A-13A-48A-48A-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	56640	3690	LTE B66	20	66786	2145	24.42	24.40
CA_2A-13A-48C-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B66	20	66536	2120	24.43	24.40
CA_13A-46E	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	LTE B46	20	51061	5577.1	24.56	24.40
CA_13A-46D-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	LTE B66	20	66786	2145	24.41	24.40
CA_13A-48A-48D	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B48	20	55990	3625	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55736	3599.6	24.35	24.40
CA_13A-48C-48C	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	24.39	24.40
CA_13A-48E	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	LTE B48	20	56584	3684.4	24.36	24.40
CA_13A-48A-48C-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B48	20	55990	3625	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	LTE B66	20	66786	2145	24.37	24.40
CA_13A-48D-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	LTE B66	20	66786	2145	24.32	24.40
CA_13A-48C-66B	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	24.36	24.40
CA_13A-48C-66C	LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	24.39	24.40

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1.3.4 LTE Band 14 as PCC

Table 4
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				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]	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-2A-14A-30A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	LTE B66	20	2000	2115	24.84	24.66
CA_2A-2A-14A-66A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.83	24.66
CA_2A-14A-30A-66A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.68	24.66

1.3.5 LTE Band 5 as PCC

Table 5
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				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]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5A-5A (1)	LTE B5	3	20525	836.5	QPSK	1	14	2525	881.5	LTE B5	5	2625	891.5	-	-	-	-	-	-	-	-	-	-	-	-	25.16	25.08
CA_5B (1)	LTE B5	3	20525	836.5	QPSK	1	14	2525	881.5	LTE B5	5	2486	877.6	-	-	-	-	-	-	-	-	-	-	-	-	25.15	25.08
CA_5A-7A	LTE B5	1_4	20525	836.5	QPSK	1	2	2525	881.5	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	-	-	-	-	25.22	25.20
CA_5A-25A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B25	20	8365	1962.5	-	-	-	-	-	-	-	-	-	-	-	-	24.90	24.89
CA_5A-38A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B38	20	38000	2595	-	-	-	-	-	-	-	-	-	-	-	-	24.61	24.89
CA_5A-46A (1)	LTE B5	3	20525	836.5	QPSK	1	14	2525	881.5	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	25.06	25.08
CA_2A-5A-46A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	25.09	24.89
CA_5B-46A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2453	874.3	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	25.02	24.89
CA_5A-46A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B46	20	50665	5537.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	25.10	24.89
CA_5A-46C (1)	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	25.06	24.89
CA_2A-4A-5A-30A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	-	-	-	-	24.87	24.89
CA_2A-5A-46C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	24.88	24.89
CA_5A-5A-66A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2425	871.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	24.85	24.89
CA_5A-5A-66B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2425	871.5	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	-	-	-	-	24.86	24.89
CA_5A-5A-66C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2425	871.5	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	24.87	24.89
CA_5B-46C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	10	2453	874.3	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	24.96	24.89
CA_5A-46C-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B66	20	66786	2145	-	-	-	-	24.83	24.89
CA_5A-46D (1)	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	-	-	-	-	24.87	24.89
CA_2A-2A-4A-4A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	25.02	24.89
CA_2A-2A-4A-5B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	24.68	24.89
CA_2A-2A-5A-30A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	LTE B66	20	66786	2145	24.90	24.89
CA_2A-2A-5A-66A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.95	24.89
CA_2A-2A-5A-66B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	24.98	24.89
CA_2A-2A-5A-66C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	24.91	24.89
CA_2A-4A-4A-5B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	24.93	24.89
CA_2A-5A-46D	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	24.79	24.89
CA_2A-5B-30A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	25.01	24.89
CA_2A-5B-66A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.99	24.89
CA_2A-5B-66B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	24.91	24.89
CA_2A-5B-66C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	24.97	24.89
CA_2A-5A-30A-66A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.99	24.89
CA_2A-5A-48A-48C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	24.87	24.89
CA_2A-5A-48D	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	24.80	24.89
CA_2A-5A-48A-48A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	55340	3560	LTE B66	20	66786	2145	24.90	24.89
CA_2A-5A-48C-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B66	20	66786	2145	25.06	24.89
CA_5B-30A-66A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2453	874.3	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.94	24.89
CA_5B-46D	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2453	874.3	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B66	20	50863	5557.3	25.08	24.89
CA_5A-46E	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	LTE B66	20	51061	5577.1	24.76	24.89
CA_5A-46D-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	LTE B66	20	66786	2145	24.72	24.89
CA_5A-48A-48D	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B48	20	55990	3625	LTE B48	20	56640	3690	LTE B48	20	56442	3670.2	LTE B66	20	56244	3650.4	24.95	24.89
CA_5A-48C-48C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	24.96	24.89
CA_5A-48E	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	LTE B48	20	56584	3684.4	24.98	24.89
CA_5A-48A-48C-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B48	20	55990	3625	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	LTE B66	20	66786	2145	24.84	24.89
CA_5A-48D-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	LTE B66	20	66786	2145	25.01	24.89

1.3.6 LTE Band 26 as PCC

Table 6
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_25A-26A	LTE B26	10	26865	831.5	QPSK	1	0	8865	876.5	LTE B25	20	8365	1962.5	-	-	-	-	25.19	25.05
CA_26A-41A	LTE B26	10	26865	831.5	QPSK	1	0	8865	876.5	LTE B41	20	40620	2593	-	-	-	-	24.89	25.05
CA_25A-25A-26A	LTE B26	3	26865	831.5	QPSK	1	7	8865	876.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1985	25.08	25.00
CA_26A-41C	LTE B26	10	26865	831.5	QPSK	1	0	8865	876.5	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	25.03	25.05

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1.3.7 LTE Band 66 as PCC

Table 7
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				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]	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-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	24.81	24.58
CA_12A-66A (1)	LTE B66	3	132322	1745	QPSK	1	14	66786	2145	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	24.82	24.72
CA_12A-66A (2)	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	24.72	24.58
CA_5A-46A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B5	10	2525	881.5	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	24.72	24.58
CA_7A-46A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B7	20	3100	2655	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	24.78	24.58
CA_13A-46A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B46	20	50665	5537.5	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	24.71	24.58
CA_46A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	24.67	24.58
CA_46A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	24.63	24.58
CA_66A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	-	-	-	-	-	-	-	-	24.70	24.58
CA_66C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B66	20	67236	2190	-	-	-	-	-	-	-	-	24.73	24.58
CA_2C-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	24.68	24.58
CA_2A-2A-66A-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B71	20	68761	634.5	-	-	-	-	24.82	24.58
CA_2A-7A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B7	20	3100	2655	-	-	-	-	24.30	24.58
CA_2A-7A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B2	20	900	1960	LTE B7	20	3100	2655	-	-	-	-	24.50	24.58
CA_2A-12A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	24.75	24.58
CA_2A-12A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	24.66	24.58
CA_2A-13A-66B	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	5	66693	2135.7	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	24.65	24.58
CA_2A-13A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	24.81	24.58
CA_2A-29A-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	-	-	-	-	24.62	24.58
CA_2A-46A-46A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	47090	5180	-	-	-	-	24.57	24.58
CA_2A-46A-48A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B48	20	55990	3625	-	-	-	-	24.79	24.58
CA_2A-66A-66A-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B71	20	68761	634.5	-	-	-	-	24.76	24.58
CA_2A-66C-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B2	20	900	1960	LTE B71	20	68761	634.5	-	-	-	-	24.82	24.58
CA_5A-5A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B5	5	2425	871.5	-	-	-	-	24.77	24.58
CA_5A-5A-66B	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	5	66693	2135.7	LTE B5	10	2525	881.5	LTE B5	5	2425	871.5	-	-	-	-	24.70	24.58
CA_5A-5A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B5	10	2525	881.5	LTE B5	5	2425	871.5	-	-	-	-	24.73	24.58
CA_5A-46C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B5	10	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	24.61	24.58
CA_7A-46C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B7	20	3100	2655	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	24.60	24.58
CA_13A-46C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B13	10	5230	751	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	24.71	24.58
CA_13A-48A-66B	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	5	66693	2135.7	LTE B13	10	5230	751	LTE B48	20	55990	3625	-	-	-	-	24.62	24.58
CA_13A-48A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B13	10	5230	751	LTE B48	20	55990	3625	-	-	-	-	24.71	24.58
CA_29A-30A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	-	-	-	-	24.60	24.58
CA_46C-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	24.56	24.58
CA_48A-48A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B48	20	55990	3625	LTE B48	20	55340	3560	-	-	-	-	24.55	24.58
CA_48A-48A-66B	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	5	66693	2135.7	LTE B48	20	55990	3625	LTE B48	20	55340	3560	-	-	-	-	24.69	24.58
CA_48A-48A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B48	20	55990	3625	LTE B48	20	55340	3560	-	-	-	-	24.61	24.58
CA_48C-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	-	-	-	-	24.48	24.58
CA_2A-2A-5A-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	24.81	24.58
CA_2A-2A-5A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	24.82	24.58
CA_2A-2A-5A-66B	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	5	66693	2135.7	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	24.79	24.58
CA_2A-2A-5A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	24.83	24.58
CA_2A-2A-7A-12A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B7	20	20260	2655	LTE B12	10	5095	737.5	24.83	24.58
CA_2A-2A-12A-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	24.61	24.58
CA_2A-2A-12A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	24.73	24.58
CA_2A-2A-13A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B13	10	5230	751	24.82	24.58
CA_2A-2A-14A-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B14	10	5330	763	LTE B30	10	9820	2355	24.81	24.58
CA_2A-2A-14A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B14	10	5330	763	24.75	24.58
CA_2A-5B-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B30	10	9820	2355	24.60	24.58
CA_2A-5B-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	24.57	24.58
CA_2A-5B-66B	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	5	66693	2135.7	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	24.62	24.58
CA_2A-5B-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	24.72	24.58
CA_2A-5A-30A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	24.64	24.58
CA_2A-5A-48A-48A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B48	20	3625	3625	LTE B48	20	55340	3560	24.71	24.58
CA_2A-5A-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B48	20	3625	3625	LTE B48	20	56188	3644.8	24.77	24.58
CA_2A-7A-12B-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B12	5	5095	737.5	LTE B12	5	5047	732.7	24.60	24.58
CA_2A-12A-30A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	24.83	24.58
CA_2A-13A-48A-48A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B13	10	5230	751	LTE B48	20	55990	3625	LTE B48	20	55340	3560	24.73	24.58
CA_2A-13A-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B13	10	5230	751	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.76	24.58
CA_2A-14A-30A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B30	10	9820	2355	24.55	24.58
CA_2A-46A-46C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	53540	5825	24.71	24.58
CA_2A-46D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	24.71	24.58
CA_2A-46C-48A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B48	20	55990	3625	24.68	24.58
CA_2A-46A-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.60	24.58
CA_2A-48A-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	24.65	24.58
CA_2A-48D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	24.76	24.58
CA_5B-30A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B30	10	9820	2355	24.76	24.58
CA_5A-46D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B5	10	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	24.66	24.58
CA_5A-48A-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B5	10	2525	881.5	LTE B48	20	55990	3625	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	24.69	24.58
CA_5A-48D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B5	10	2525	881.5	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	24.65	24.58
CA_7A-46D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B7	20	3100	2655	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	24.63	24.58
CA_13A-46D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B13	10	5230	751	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	24.73	24.58
CA_13A-48A-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B13	10	5230	751	LTE B48	20	55990	3625	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	24.69	24.58
CA_13A-48D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B13	10	5230	751	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	24.71	24.58
CA_13A-48C-66B	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	5	66693	2135.7	LTE B13	10	5230	751	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.64	24.58
CA_13A-48C-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B13	10	5230	751	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.67	24.58
CA_46D-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	67236	2190	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	24.56	24.58
CA_46A-48D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B46	20	50665	5537.5	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	24.58	24.58
CA_46C-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.75	24.58
CA_46A-46D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B46	20	50665	5537.5	LTE B46	20	53540	5825	LTE B46	20	53342	5805.2	LTE B46	20	53144	5785.4	24.73	24.58
CA_46C-46C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	53540	5825	LTE B46	20	53342	5805.2	24.39	24.58
CA_46E-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	LTE B46	20	51061	5577.1	24.63	24.58
CA_46D-48A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	LTE B48	20	55990	3625	24.61	24.58
CA_48A-48D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B48	20	55990	3625	LTE B48	20	56640	3690	LTE B48	20	56442	3670.2	LTE B48	20	56244	3650.4	24.51	24.58
CA_48C-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	24.61	24.58
CA_48E-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	LTE B48	20	56584	3684.4	24.58	24.58
CA_48A-48C-66B	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	5	66693	2135.7	LTE B48	20	55990	3625	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	24.64	24.58
CA_48A-48C-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B66	20	66615	2127.9	LTE B48	20	55990	3625	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	24.63	24.58

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				SCC 5				SCC 6				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]	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-46E-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	LTE B46	20	50269	5497.9	-	-	-	-	24.49	24.58
CA_2A-46D-48A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	LTE B48	20	55990	3625	-	-	-	-	24.42	24.58
CA_2A-46C-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	-	-	-	-	24.14	24.58
CA_2A-46A-48D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	-	-	-	-	24.33	24.58
CA_46E-48A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	LTE B46	20	50269	5497.9	LTE B48	20	55990	3625	-	-	-	-	24.33	24.58
CA_46D-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	-	-	-	-	24.40	24.58
CA_2A-46D-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50269	5497.9	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.41	24.58
CA_2A-46C-48D-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	24.47	24.58
CA_46E-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50269	5497.9	LTE B46	20	50863	5557.3	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.38	24.58
CA_46C-48E-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	LTE B48	20	55792	3605.2	24.45	24.58

1.3.8 LTE Band 25 as PCC

Table 8
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				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]	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	20	26140	1860	QPSK	1	0	8140	1940	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	23.84	23.90
CA_12A-25A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	23.87	23.90
CA_25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B26	15	8865	876.5	-	-	-	-	-	-	-	-	23.96	23.90
CA_25A-41A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B41	20	40620	2593	-	-	-	-	-	-	-	-	23.97	23.90
CA_25A-46A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	23.88	23.90
CA_25A-25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B25	20	8590	1985	LTE B26	5	8865	876.5	-	-	-	-	23.97	23.90
CA_25A-41C	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	-	-	-	-	23.99	23.90
CA_25A-41D	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B41	20	40422	2573.2	LTE B41	20	40620	2593	LTE B41	20	40818	2612.8	23.89	23.90

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1.3.9 LTE Band 30 as PCC

Table 9
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				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]	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-2A-12A-30A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	-	-	-	-	22.79	22.78
CA_2A-2A-29A-30A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	9715	722.5	-	-	-	-	22.85	22.78
CA_2A-4A-5A-30A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	-	22.79	22.78
CA_2A-4A-12A-30A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B12	10	5095	737.5	-	-	-	-	22.77	22.78
CA_2A-4A-29A-30A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B29	10	9715	722.5	-	-	-	-	22.75	22.78
CA_2A-29A-30A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B29	10	9715	722.5	LTE B66	20	66786	2145	-	-	-	-	22.73	22.78
CA_29A-30A-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B29	10	9715	722.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	22.88	22.78
CA_2A-2A-5A-30A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	23.02	22.78
CA_2A-2A-12A-30A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	22.95	22.78
CA_2A-2A-14A-30A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B14	10	5330	763	LTE B66	20	66786	2145	23.00	22.78
CA_2A-5B-30A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B66	20	66786	2145	22.87	22.78
CA_2A-5A-30A-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	23.02	22.78
CA_2A-12A-30A-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	23.00	22.78
CA_2A-14A-30A-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B66	20	66786	2145	LTE B66	20	67236	2190	22.95	22.78
CA_5B-30A-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B66	20	66786	2145	LTE B66	20	67236	2190	22.75	22.78

1.3.10 LTE Band 7 as PCC

Table 10
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				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]	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_7C (1)	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	LTE B7	20	2929	2637.9	-	-	-	-	-	-	-	-	-	-	-	-	23.51	23.53
CA_7A-46A (1)	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	23.48	23.53
CA_7A-7A-46A	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	LTE B7	20	2850	2630	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	23.73	23.53
CA_7A-46C (1)	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	23.77	23.53
CA_7A-7A-46C	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	LTE B7	20	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	23.77	23.53
CA_7A-46D (1)	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	-	-	-	-	23.75	23.53
CA_7A-7A-46D	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	LTE B7	20	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	23.61	23.53
CA_7A-46E	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	LTE B46	20	50665	5537.5	LTE B46	20	74917	5557.7	LTE B46	20	74719	5497.9	LTE B46	20	74521	5478.1	23.55	23.53

1.3.1 LTE Band 7 Ant A as PCC

Table 11
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				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]	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 AntA Tx Power (dBm)
CA_5A-7A^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	23.74	23.72
CA_2A-7A^-46A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	23.92	23.72
CA_4A-4A-7A^ (1)	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	-	-	-	23.64	23.72
CA_7A^-46A-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B46	20	50665	5537.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	23.77	23.72
CA_2A-4A-7A^-7A^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B7 AntA	20	3350	2680	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	23.83	23.72
CA_2A-4A-7C^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B7 AntA	20	2996	2644.6	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	23.78	23.72
CA_2A-4A-7A^-12A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B12	10	5095	737.5	-	-	-	-	23.54	23.72
CA_2A-7A^-7A^-46A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B7 AntA	20	3350	2680	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	-	-	-	-	23.57	23.72
CA_2A-7A^-66A-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	23.80	23.72
CA_2A-7A^-66C	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	23.90	23.72
CA_4A-7A^-12B	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B4	20	2175	2132.5	LTE B12	5	5095	737.5	LTE B12	5	5047	732.7	-	-	-	-	23.69	23.72
CA_7A^-46C-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B66	20	66786	2145	-	-	-	-	23.53	23.72
CA_2A-2A-7A^-12A-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	23.78	23.72
CA_2A-7A^-7A^-46C	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B7 AntA	20	3350	2680	LTE B2	20	900	1960	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	23.74	23.72
CA_2A-7A^-12B-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B2	20	900	1960	LTE B12	5	5095	737.5	LTE B12	5	5047	732.7	LTE B66	20	66786	2145	23.59	23.72
CA_2A-7A^-46D	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	23.67	23.72
CA_7A^-46D-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B46	20	36675	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	LTE B66	20	66786	2145	23.70	23.72

Note: ^ - Indicates that Band 7 operations are using antenna A

1.3.2 LTE Band 41 as PCC

Table 12
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				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]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41A-41A (1)	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	39750	2506	-	-	-	-	-	-	-	-	-	-	-	-	23.80	23.59
CA_41A-41C	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	-	-	-	-	-	-	-	-	23.63	23.59
CA_41C-41A	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	LTE B41	20	39750	2506	-	-	-	-	-	-	-	-	23.77	23.59
CA_41A-41D	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	40146	2545.6	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	-	-	-	-	23.80	23.59
CA_41D-41A	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	LTE B41	20	41094	2640.4	LTE B41	20	39750	2506	-	-	-	-	23.75	23.59
CA_41C-41C	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	-	-	-	-	23.78	23.59
CA_41E	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	LTE B41	20	41094	2640.4	LTE B41	20	40896	2620.6	-	-	-	-	23.50	23.59
CA_41C-41D	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	LTE B41	20	40146	2545.6	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	23.42	23.59
CA_41D-41C	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	LTE B41	20	41094	2640.4	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	23.39	23.59
CA_41F	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	LTE B41	20	41094	2640.4	LTE B41	20	40896	2620.6	LTE B41	20	40698	2600.8	23.61	23.59

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1.3.3 LTE Band 41 PC2 as PCC

Table 13
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				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]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41A-41A (1)	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	27.82	27.60
CA_41A-41C	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	27.73	27.60
CA_41C-41A	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39921	2523.1	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	27.66	27.60
CA_41A-41D	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	27.73	27.60
CA_41D-41A	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39921	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	41490	2680	-	-	-	-	27.81	27.60
CA_41C-41C	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39921	2523.1	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	27.77	27.60
CA_41E	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39921	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	40317	2562.7	-	-	-	-	27.64	27.60
CA_41C-41D	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39921	2523.1	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	27.57	27.60
CA_41D-41C	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39921	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	27.72	27.60
CA_41F	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39921	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	40317	2562.7	LTE B41 PC2	20	40515	2582.5	27.73	27.60

1.3.4 LTE Band 48 as PCC

Table 14
Maximum Output Powers

	PCC									SCC 1				SCC 2				SCC 3				SCC 4				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]	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	5	56715	3697.5	QPSK	1	12	56715	3697.5	LTE B48	20	55340	3560	-	-	-	-	-	-	-	-	-	-	-	-	23.49	23.70
CA_48A-48C	LTE B48	5	56715	3697.5	QPSK	1	12	56715	3697.5	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	-	-	-	-	-	-	-	-	23.49	23.70
CA_48C-48A	LTE B48	5	56715	3697.5	QPSK	1	12	56715	3697.5	LTE B48	20	56598	3685.8	LTE B48	20	55340	3560	-	-	-	-	-	-	-	-	23.47	23.70
CA_48A-48D	LTE B48	5	56715	3697.5	QPSK	1	12	56715	3697.5	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55736	3599.6	-	-	-	-	23.51	23.70
CA_48D-48A	LTE B48	5	56715	3697.5	QPSK	1	12	56715	3697.5	LTE B48	20	56598	3685.8	LTE B48	20	56400	3666	LTE B48	20	55340	3560	-	-	-	-	23.42	23.70
CA_48C-48C	LTE B48	5	56715	3697.5	QPSK	1	12	56715	3697.5	LTE B48	20	56598	3685.8	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	-	-	-	-	23.54	23.70
CA_48A-48E	LTE B48	5	56715	3697.5	QPSK	1	12	56715	3697.5	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55736	3599.6	LTE B48	20	55934	3619.4	23.61	23.70
CA_48E-48A	LTE B48	5	56715	3697.5	QPSK	1	12	56715	3697.5	LTE B48	20	56598	3685.8	LTE B48	20	56400	3666	LTE B48	20	56202	3646.2	LTE B48	20	55340	3560	23.58	23.70
CA_48C-48D	LTE B48	5	56715	3697.5	QPSK	1	12	56715	3697.5	LTE B48	20	56598	3685.8	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55736	3599.6	23.78	23.70
CA_48D-48C	LTE B48	5	56715	3697.5	QPSK	1	12	56715	3697.5	LTE B48	20	56598	3685.8	LTE B48	20	56400	3666	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	23.50	23.70

1.4 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 1.2 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.

1.4.1 LTE 4x4 MIMO DL Standalone Powers

Table 15
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	3	132322	1745	QPSK	1	14	24.7	24.72
25	20	26140	1860	QPSK	1	0	23.86	23.90
7	15	21100	2535	QPSK	1	0	23.44	23.53
30	5	27710	2310	QPSK	1	12	22.79	22.78
41	20	41490	2680	QPSK	1	0	23.50	23.59
41 PC2	15	39750	2506	QPSK	1	0	27.58	27.60

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1.4.2 LTE Band 71 as PCC

Table 16
Maximum Output Powers

	PCC										SCC 1					SCC 2					SCC 3					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 (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	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	2x2	-	-	-	-	-	24.57	24.62
CA_[4A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	-	-	-	-	-	24.52	24.62
CA_2A-2A-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	24.59	24.62
CA_[2A]-2A-4A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	2x2	24.56	24.62
CA_[2A]-2A-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	24.62	24.62
CA_[2A]-[2A]-4A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	2x2	24.57	24.62
CA_[2A]-[2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	4x4	24.61	24.62
CA_2A-2A-[66A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	24.57	24.62
CA_[2A]-2A-66A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	2x2	24.62	24.62
CA_[2A]-2A-[66A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	24.60	24.62
CA_[2A]-[2A]-66A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	2x2	24.65	24.62
CA_[2A]-[2A]-[66A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	24.62	24.62
CA_2A-[66A]-66A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.59	24.62
CA_[2A]-[66A]-66A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	24.57	24.62
CA_2A-[66A]-[66A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	24.63	24.62
CA_[2A]-[66A]-[66A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.58	24.62
CA_[2A]-[66A]-[66A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	24.58	24.62
CA_2A-[66C]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	24.56	24.62
CA_[2A]-66C-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	66984	2164.8	2x2	24.55	24.62
CA_[2A]-[66C]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	24.55	24.62

1.4.3 LTE Band 12 as PCC

Table 17
Maximum Output Powers

	PCC										SCC 1					SCC 2					SCC 3					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 (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]-12A (1)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	24.42	24.59
CA_[4A]-12A (1)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	24.39	24.59
CA_[4A]-12A (2)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	24.39	24.59
CA_12A-[66A] (1)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	24.32	24.59
CA_12A-[66A] (2)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	24.46	24.59
CA_2A-[7A]-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	2x2	LTE B7	20	3100	2655	4x4	-	-	-	-	-	24.58	24.59
CA_[2A]-7A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	2x2	-	-	-	-	-	24.62	24.59
CA_[2A]-[7A]-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	4x4	-	-	-	-	-	24.63	24.59
CA_[4A]-4A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	2x2	-	-	-	-	-	24.62	24.59
CA_[4A]-[4A]-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	-	-	-	-	-	24.61	24.59
CA_[7A]-12B	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B12	10	5107	738.7	2x2	LTE B7	20	3100	2655	4x4	-	-	-	-	-	24.62	24.59
CA_12B-[66A]	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B12	10	5107	738.7	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.57	24.59
CA_2A-2A-[4A]-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	24.60	24.59
CA_[2A]-2A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	2x2	24.60	24.59
CA_[2A]-2A-[4A]-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	24.63	24.59
CA_[2A]-[2A]-4A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	2x2	24.66	24.59
CA_[2A]-[2A]-[4A]-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	4x4	24.67	24.59
CA_2A-2A-12A-[30A]	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	4x4	24.56	24.59
CA_[2A]-2A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	2x2	24.63	24.59
CA_[2A]-2A-12A-[30A]	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	4x4	24.65	24.59
CA_[2A]-[2A]-12A-30A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B30	10	9820	2355	2x2	24.54	24.59
CA_[2A]-[2A]-12A-[30A]	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B30	10	9820	2355	4x4	24.67	24.59
CA_2A-2A-12A-[66A]	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	24.63	24.59
CA_[2A]-2A-12A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	2x2	24.58	24.59
CA_[2A]-2A-12A-[66A]	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	24.58	24.59
CA_[2A]-[2A]-12A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	2x2	24.61	24.59
CA_[2A]-[2A]-12A-[66A]	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	24.69	24.59
CA_2A-12A-[66A]-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.57	24.59
CA_[2A]-12A-66A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	24.66	24.59
CA_2A-12A-[66A]-[66A]	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	24.54	24.59
CA_[2A]-12A-[66A]-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.62	24.59
CA_[2A]-12A-[66A]-[66A]	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	24.67	24.59
CA_2A-12A-[66C]	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	24.68	24.59
CA_[2A]-12A-66C	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	66984	2164.8	2x2	24.68	24.59
CA_[2A]-12A-[66C]	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	24.72	24.59

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1.4.4 LTE Band 13 as PCC

Table 18
Maximum Output Powers

	PCC									SCC 1					SCC 2					SCC 3					SCC 4					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 (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]-13A-46A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B46	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	-	-	-	-	24.38	24.40
CA_13A-46A-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B46	20	50665	5537.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	24.39	24.40
CA_[2A]-[2A]-[4A]-13A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	24.35	24.40
CA_[2A]-[2A]-13A-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.36	24.40
CA_[2A]-[4A]-[4A]-13A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	-	-	-	-	-	24.32	24.40
CA_2A-13A-48A-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	2x2	LTE B48	20	55990	3625	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.21	24.40
CA_[2A]-13A-48A-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.29	24.40
CA_[2A]-13A-[66A]-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.17	24.40
CA_2A-13A-[66B]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	2x2	LTE B66	15	66786	2145	4x4	LTE B66	5	66879	2154.3	4x4	-	-	-	-	-	24.38	24.40
CA_[2A]-13A-66B	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B66	15	66786	2145	2x2	LTE B66	5	66879	2154.3	2x2	-	-	-	-	-	24.36	24.40
CA_[2A]-13A-[66B]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B66	15	66786	2145	4x4	LTE B66	5	66879	2154.3	4x4	-	-	-	-	-	24.32	24.40
CA_2A-13A-[66C]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	-	-	-	-	-	24.29	24.40
CA_[2A]-13A-66C	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	66984	2164.8	2x2	-	-	-	-	-	24.38	24.40
CA_[2A]-13A-[66C]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	-	-	-	-	-	24.47	24.40
CA_13A-48A-48A-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.25	24.40
CA_13A-48A-[66B]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B48	20	55990	3625	2x2	LTE B66	15	66786	2145	4x4	LTE B66	5	66879	2154.3	4x4	-	-	-	-	-	24.24	24.40
CA_13A-48A-[66C]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B48	20	55990	3625	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	-	-	-	-	-	24.21	24.40
CA_[2A]-13A-46C	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	-	-	-	-	-	24.23	24.40
CA_13A-46C-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.24	24.40
CA_2A-2A-[4A]-4A-13A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	2x2	24.33	24.40
CA_[2A]-2A-4A-4A-13A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	2x2	LTE B4	10	2350	2150	2x2	24.36	24.40
CA_2A-2A-[4A]-[4A]-13A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	24.46	24.40
CA_[2A]-2A-[4A]-4A-13A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	2x2	24.41	24.40
CA_[2A]-[2A]-4A-4A-13A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	2x2	LTE B4	10	2350	2150	2x2	24.44	24.40
CA_2A-2A-13A-[66A]-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.35	24.40
CA_[2A]-2A-13A-66A-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	24.43	24.40
CA_2A-2A-13A-[66A]-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	24.41	24.40
CA_[2A]-2A-13A-[66A]-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.44	24.40
CA_[2A]-[2A]-13A-66A-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	24.30	24.40
CA_[2A]-13A-48A-48C	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	56640	3690	2x2	LTE B48	20	56442	3670.2	2x2	24.27	24.40
CA_[2A]-13A-48D	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B48	20	56386	3664.6	2x2	24.28	24.40
CA_[2A]-13A-48A-48A-66A	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	56640	3690	2x2	LTE B66	20	66786	2145	2x2	24.17	24.40
CA_2A-13A-48C-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B66	20	66786	2145	4x4	24.46	24.40
CA_[2A]-13A-48C-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	2B 14	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B66	20	66786	2145	2x2	24.42	24.40
CA_[2A]-13A-48C-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B66	20	66786	2145	4x4	24.40	24.40
CA_13A-48A-48C-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	LTE B48	20	55538	3579.8	2x2	LTE B66	20	66786	2145	4x4	24.28	24.40
CA_13A-48D-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B48	20	56386	3664.6	2x2	LTE B66	20	66786	2145	4x4	24.26	24.40
CA_13A-48C-[66B]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B66	15	66786	2145	4x4	LTE B66	5	66879	2154.3	4x4	24.29	24.40
CA_13A-48C-[66C]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	24.36	24.40
CA_[2A]-13A-46D	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	24.34	24.40
CA_13A-46D-[66A]	LTE B13	10	23230	782	QPSK	1	49	5230	751	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B66	20	66786	2145	4x4	24.33	24.40

1.4.5 LTE Band 14 as PCC

Table 19
Maximum Output Powers

	PCC									SCC 1					SCC 2					SCC 3					SCC 4					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 (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-14A-[30A]	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	4x4	-	-	-	-	-	24.66	24.66
CA_[2A]-[2A]-14A-[30A]	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B30	10	9820	2355	4x4	-	-	-	-	-	24.65	24.66
CA_[2A]-[2A]-14A-[66A]	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	10	66786	2145	4x4	-	-	-	-	-	24.62	24.66
CA_[2A]-14A-[30A]-[66A]	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.63	24.66
CA_[2A]-14A-[66A]-[66A]	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.64	24.66
CA_14A-[30A]-[66A]-[66A]	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.66	24.66
CA_2A-2A-14A-30A-[66A]	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	4x4	24.65	24.66
CA_2A-2A-14A-[30A]-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	2x2	24.49	24.66
CA_[2A]-2A-14A-30A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	2x2	24.63	24.66
CA_[2A]-[2A]-14A-30A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	2x2	24.65	24.66
CA_2A-2A-14A-[66A]-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.66	24.66
CA_[2A]-2A-14A-66A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	24.67	24.66
CA_2A-2A-14A-[66A]-[66A]	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	24.61	24.66
CA_[2A]-2A-14A-[66A]-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.60	24.66
CA_[2A]-[2A]-14A-66A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	24.65	24.66
CA_2A-14A-30A-[66A]-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.57	24.66
CA_2A-14A-[30A]-66A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	24.62	24.66
CA_[2A]-14A-30A-66A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	24.64	24.66
CA_2A-14A-30A-[66A]-[66A]	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	24.63	24.66
CA_2A-14A-[30A]-[66A]-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.67	24.66
CA_[2A]-14A-30A-[66A]-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.65	24.66
CA_[2A]-14A-[30A]-[66A]-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	24.66	24.66

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1.4.6 LTE Band 5 as PCC

Table 20
Maximum Output Powers

	PCC									SCC 1					SCC 2					SCC 3					SCC 4					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 (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_4A-5A-(30A)	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B4	20	2175	2132.5	2x2	LTE B30	10	9820	2355	4x4	-	-	-	-	-	-	-	-	-	-	24.87	24.89
CA_[2A]-5A-46A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	24.84	24.89
CA_5A-46A-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B46	20	50665	5537.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	24.90	24.89
CA_[2A]-[2A]-[4A]-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	25.01	24.89
CA_[2A]-2A-5A-[30A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	4x4	-	-	-	-	-	24.92	24.89
CA_[2A]-[2A]-5A-[30A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B30	10	9820	2355	4x4	-	-	-	-	-	24.97	24.89
CA_[2A]-[2A]-5A-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.92	24.89
CA_[2A]-[4A]-[4A]-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	-	-	-	-	-	24.94	24.89
CA_[2A]-5A-(30A)-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	-	-	-	-	-	24.91	24.89
CA_[2A]-5A-[66A]-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.90	24.89
CA_5A-5A-(66A)-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2425	871.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	-	-	-	-	-	24.90	24.89
CA_5A-5A-[66A]-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2425	871.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.89	24.89
CA_5A-5A-[66B]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2425	871.5	2x2	LTE B66	15	66786	2145	4x4	LTE B66	5	66879	2154.3	4x4	-	-	-	-	-	24.92	24.89
CA_5A-5A-[66C]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2425	871.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	-	-	-	-	-	24.87	24.89
CA_5A-[30A]-[66A]-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.89	24.89
CA_[2A]-5A-46C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	-	-	-	-	-	24.89	24.89
CA_5A-46C-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B66	20	66786	2145	4x4						24.96	24.89
CA_2A-2A-[4A]-4A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	2x2	25.11	24.89
CA_[2A]-2A-4A-4A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	2x2	LTE B4	10	2350	2150	2x2	25.14	24.89
CA_2A-2A-[4A]-[4A]-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	25.12	24.89
CA_[2A]-2A-[4A]-4A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	2x2	LTE B4	10	2350	2150	2x2	25.13	24.89
CA_[2A]-[2A]-4A-4A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	25.12	24.89
CA_2A-2A-[4A]-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	25.08	24.89
CA_[2A]-2A-4A-5B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	2x2	25.12	24.89
CA_[2A]-2A-[4A]-5B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	25.14	24.89
CA_[2A]-[2A]-4A-5B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	2x2	25.13	24.89
CA_[2A]-[2A]-[4A]-5B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	4x4	25.11	24.89
CA_2A-2A-5A-30A-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	4x4	25.12	24.89
CA_2A-2A-5A-[30A]-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	2x2	24.89	24.89
CA_[2A]-2A-5A-30A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	2x2	25.08	24.89
CA_[2A]-[2A]-5A-30A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	2x2	25.13	24.89
CA_2A-2A-5A-[66A]-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	25.03	24.89
CA_[2A]-2A-5A-66A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	25.13	24.89
CA_2A-2A-5A-[66A]-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	25.14	24.89
CA_[2A]-2A-5A-[66A]-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	25.14	24.89
CA_[2A]-[2A]-5A-66A-66A	LTE B5	10	20525	836.5	QPSK	1	0	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	25.14	24.89
CA_[2A]-[2A]-5A-[66A]-66A	LTE B5	10	20525	836.5	QPSK	1	0	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	25.14	24.89
CA_2A-2A-5A-[66B]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	15	66786	2145	4x4	LTE B66	5	66879	2154.3	4x4	25.14	24.89
CA_[2A]-2A-5A-66B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	15	66786	2145	2x2	LTE B66	5	66879	2154.3	2x2	25.13	24.89
CA_[2A]-2A-5A-[66B]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	15	66786	2145	4x4	LTE B66	5	66879	2154.3	4x4	25.14	24.89
CA_[2A]-[2A]-5A-66B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	15	66786	2145	2x2	LTE B66	5	66879	2154.3	2x2	25.12	24.89
CA_[2A]-[2A]-5A-[66B]	LTE B5	10	20525	836.5	QPSK	1	0	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	25.11	24.89
CA_2A-2A-5A-[66C]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	25.02	24.89
CA_[2A]-2A-5A-66C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	66984	2164.8	2x2	25.14	24.89
CA_[2A]-[2A]-5A-[66C]	LTE B5	10	20525	836.5	QPSK	1	0	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	25.13	24.89
CA_[2A]-[2A]-5A-66C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	66984	2164.8	2x2	25.12	24.89
CA_[2A]-[2A]-5A-[66C]	LTE B5	10	20525	836.5	QPSK	1	0	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	25.11	24.89
CA_2A-5A-[4A]-4A-5B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	2x2	25.02	24.89
CA_[2A]-4A-4A-5B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	2x2	LTE B4	10	2350	2150	2x2	25.02	24.89
CA_2A-[4A]-[4A]-5B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	25.08	24.89
CA_[2A]-[4A]-4A-5B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	2x2	25.07	24.89
CA_[2A]-[4A]-[4A]-5B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	25.10	24.89
CA_2A-5B-30A-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	4x4	25.11	24.89
CA_2A-5B-[30A]-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	2x2	25.10	24.89
CA_[2A]-5B-30A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	2x2	25.13	24.89
CA_2A-5B-[30A]-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	25.14	24.89
CA_[2A]-5B-30A-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	4x4	25.11	24.89
CA_[2A]-5B-30A-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	2x2	25.12	24.89
CA_2A-5B-[66A]-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	25.14	24.89
CA_[2A]-5B-66A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	25.04	24.89
CA_2A-5B-[66A]-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	25.11	24.89
CA_2A-5B-[66B]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	2x2	LTE B66	15	66786	2145	4x4	LTE B66	5	66879	2154.3	4x4	25.10	24.89
CA_[2A]-5B-66B	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B66	15	66786	2145	2x2	LTE B66	5	66879	2154.3	2x2	25.04	24.89
CA_[2A]-5B-[66B]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B66	15	66786	2145	4x4	LTE B66	5	66879	2154.3	4x4	25.10	24.89
CA_2A-5B-[66C]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	25.13	24.89
CA_[2A]-5B-66C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	66984	2164.8	2x2	25.12	24.89
CA_[2A]-5B-[66C]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	25.09	24.89
CA_2A-5A-30A-[66A]-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	25.05	24.89
CA_2A-5A-[30A]-[66A]-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	25.08	24.89
CA_[2A]-5A-30A-66A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	25.11	24.89
CA_2A-5A-30A-[66A]-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	25.14	24.89
CA_[2A]-5A-[30A]-66A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	25.09	24.89
CA_[2A]-5A-[30A]-[66A]-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	25.12	24.89
CA_[2A]-5A-48A-48C	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	LTE B48	20	55538	3579.8	2x2	25.07	24.89
CA_[2A]-5A-48D	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B48	20	56386	3664.6	2x2	25.13	24.89
CA_2A-5A-48A-48A-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	LTE B66	20	66786	2145	4x4	25.14	24.89
CA_[2A]-5A-48A-48A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	LTE B66	20	66786	2145	2x2	25.13	24.89
CA_[2A]-5A-48A-48A-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	LTE B66	20	66786	2145	4x4	25.03	24.89
CA_2A-5A-48C-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B66	20	66786	2145	4x4	25.09	24.89
CA_[2A]-5A-48C-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B66	20	66786	2145	2x2	25.10	24.89
CA_[2A]-5A-48C-[66A]	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B66	20	66786	2145	4x4	25.05	24.89
CA_5B-30A-[66A]-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	4x4

1.4.7 LTE Band 26 as PCC

Table 21
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) 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.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_[25A]-26A	LTE B26	10	26865	831.5	QPSK	1	0	8865	876.5	2x2	LTE B25	20	8365	1962.5	4x4	-	-	-	-	-	25.00	25.05
CA_26A-[41A]	LTE B26	10	26865	831.5	QPSK	1	0	8865	876.5	2x2	LTE B41	20	40620	2593	4x4	-	-	-	-	-	25.14	25.05
CA_[25A]-25A-26A	LTE B26	3	26865	831.5	QPSK	1	7	8865	876.5	2x2	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	2x2	24.95	25.00
CA_[25A]-[25A]-26A	LTE B26	3	26865	831.5	QPSK	1	7	8865	876.5	2x2	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	24.93	25.00
CA_26A-[41C]	LTE B26	10	26865	831.5	QPSK	1	0	8865	876.5	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	25.08	25.05

1.4.8 LTE Band 66 as PCC

Table 22
Maximum Output Powers

	PCC										SCC 1					SCC 2					SCC 3					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 (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-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	-	-	-	-	-	-	-	-	-	-	24.23	24.58
CA_[2A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	24.41	24.58
CA_[2A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	24.32	24.58
CA_12A-[66A] (1)	LTE B66	3	132322	1745	QPSK	1	14	66786	2145	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	24.68	24.72
CA_12A-[66A] (2)	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B12	1	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	24.41	24.58
CA_7A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B7	20	3100	2655	2x2	-	-	-	-	-	24.68	24.58
CA_[7A]-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B7	20	3100	2655	4x4	-	-	-	-	-	24.70	24.58
CA_12B-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B12	5	5095	737.5	2x2	LTE B12	5	5047	732.7	2x2	-	-	-	-	-	24.44	24.58
CA_66A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67038	2170.2	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.34	24.58
CA_[66C]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B66	20	67236	2190	2x2	-	-	-	-	-	24.24	24.58
CA_[66A]-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67038	2170.2	2x2	LTE B66	20	67236	2190	2x2	-	-	-	-	-	24.30	24.58
CA_66C-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	66615	2127.9	2x2	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.27	24.58
CA_[66A]-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67038	2170.2	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.35	24.58
CA_[66C]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	24.28	24.58
CA_[2A]-46A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	24.49	24.58
CA_5A-46A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B5	10	2525	881.5	2x2	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	24.25	24.58
CA_7A-46A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B7	20	3100	2655	2x2	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	24.65	24.58
CA_[7A]-46A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B7	20	3100	2655	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	24.62	24.58
CA_[7A]-46A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B7	20	3100	2655	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	24.69	24.58
CA_13A-46A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B46	20	50665	5537.5	2x2	LTE B13	10	5230	751	2x2	-	-	-	-	-	24.29	24.58
CA_46A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	24.27	24.58
CA_46A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	24.40	24.58
CA_46A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	24.36	24.58
CA_[2A]-[2A]-5A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B5	10	2525	881.5	2x2	24.56	24.58
CA_2A-2A-12A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	24.77	24.58
CA_[2A]-2A-12A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	24.65	24.58
CA_[2A]-2A-12A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	24.75	24.58
CA_[2A]-[2A]-12A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B12	10	5095	737.5	2x2	24.78	24.58
CA_[2A]-[2A]-12A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B12	10	5095	737.5	2x2	24.52	24.58
CA_[2A]-[2A]-13A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B13	10	5230	751	2x2	24.57	24.58
CA_[2A]-[2A]-14A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B14	10	5230	763	2x2	24.54	24.58
CA_2A-2A-[30A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	4x4	24.50	24.58
CA_[2A]-2A-30A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	2x2	24.39	24.58
CA_[2A]-2A-[30A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	4x4	24.48	24.58
CA_[2A]-2A-[30A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B30	10	9820	2355	4x4	24.53	24.58
CA_[2A]-[2A]-[30A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B30	10	9820	2355	4x4	24.44	24.58
CA_[2A]-2A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.52	24.58
CA_[2A]-[2A]-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	24.37	24.58
CA_[2A]-[2A]-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	24.49	24.58
CA_2C-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	702	1940.2	2x2	24.32	24.58
CA_2C-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	702	1940.2	2x2	24.47	24.58
CA_[2C]-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	702	1940.2	4x4	24.35	24.58
CA_2C-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	702	1940.2	2x2	24.41	24.58
CA_[2C]-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	702	1940.2	4x4	24.36	24.58
CA_[2C]-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	702	1940.2	4x4	24.33	24.58
CA_[2C]-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	702	1940.2	4x4	24.39	24.58
CA_2A-2A-[66A]-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B71	20	68761	634.5	2x2	24.45	24.58
CA_[2A]-2A-66A-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B71	20	68761	634.5	2x2	24.56	24.58
CA_[2A]-2A-[66A]-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B71	20	68761	634.5	2x2	24.54	24.58
CA_[2A]-[2A]-66A-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B71	20	68761	634.5	2x2	24.61	24.58
CA_[2A]-[2A]-[66A]-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B71	20	68761	634.5	2x2	24.50	24.58
CA_[2A]-5A-[30A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B30	10	9820	2355	4x4	24.52	24.58
CA_[2A]-5A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.50	24.58
CA_2A-7A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B7	20	3100	2655	2x2	24.64	24.58
CA_2A-7A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B7	20	3100	2655	2x2	24.43	24.58
CA_2A-[7A]-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B7	20	3100	2655	4x4	24.68	24.58
CA_[2A]-7A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	2x2	24.81	24.58
CA_2A-[7A]-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B7	20	3100	2655	4x4	24.59	24.58
CA_2A-[7A]-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B7	20	3100	2655	4x4	24.51	24.58
CA_[2A]-7A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	2x2	24.74	24.58
CA_[2A]-7A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	2x2	24.53	24.58
CA_[2A]-[7A]-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	4x4	24.79	24.58
CA_[2A]-[7A]-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	4x4	24.70	24.58
CA_[2A]-[7A]-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	4x4	24.49	24.58
CA_2A-7A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	2x2	LTE B7	20	3100	2655	2x2	24.45	24.58
CA_2A-[7A]-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	66615	2127.9	2x2	LTE B2	20	900	1960	2x2	LTE B7	20	3100	2655	4x4	24.66	24.58
CA_[2A]-7A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	66615	2127.9	2x2	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	2x2	24.81	24.58
CA_2A-[7A]-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	2x2	LTE B7	20	3100	2655	4x4	24.39	24.58
CA_[2A]-7A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	2x2	24.41	24.58
CA_[2A]-[7A]-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	66615	2127.9	2x2	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	4x4	24.80	24.58
CA_[2A]-[7A]-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	4x4	24.33	24.58
CA_[2A]-12A-[30A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	LTE B30	10	9820	2355	4x4	24.35	24.58
CA_2A-12A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	24.67	24.58
CA_2A-12A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	24.70	24.58
CA_[2A]-12A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	24.77	24.58
CA_2A-12A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	24.76	24.58
CA_[2A]-12A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	24.76	24.58
CA_[2A]-12A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	24.61	24.58
CA_[2A]-12A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	24.39	24.58
CA_2A-12A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	24.38	24.58
CA_[2A]-12A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	66615	2127.9	2x2	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	24.55	24.58
CA_[2A]-12A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	24.32	24.58
CA_2A-13A-48A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B13	10	5230	751	2x2	LTE B48	10	55990	3625	2x2	24.60	24.58
CA_[2A]-13A-48A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B13	10	5230	751	2x2	LTE B48	10	55990	3625	2x2	24.40	24.58
CA_[2A]-13A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B13	10	5230	751	2x2	24.48	24.58
CA_2A-13A-[66B]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	5	66693	2135.7	4x4	LTE B2	20	900	1960	2x2	LTE B13	10	5230	751	2x2	24.45	24.58
CA_[2A]-13A-66B	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	5	66693	2135.7	2x2	LTE B2	20	900	1960	4x4	LTE B13	10	5230	751	2x2	24.36	24.58
CA_[2A]-13A-[66B]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	5	66693	2135.7	4x4	LTE B2	20	900	1960	4x4	LTE B13	10	5230	751	2x2	24.34	24.58
CA_2A-13A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	2x2	LTE B13	10	5230	751	2x2	24.38	24.58
CA_[2A]-13A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	66615	2127.9	2x2	LTE B2	20	900	1960	4x4	LTE B13	10	5230	751	2x2	24.44	24.58
CA_[2A]-13A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	4x4	LTE B13	10	5230	751	2x2	24.35	24.58
CA_[2A]-14A-[30A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B14	10	5350	763	2x2	LTE B30	10	9820	2355	4x4	24.42	24.58
CA_[2A]-14A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B14	10	5350	763	2x2	24.40	24.58
CA_2A-29A-30A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	2x2	24.36	24.58
CA_2A-29A-[30A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	2x2	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	4x4	24.49	24.58
CA_[2A]-29A-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	2x2	24.42	24.58
CA_2A-29A-[30A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	4x4	24.36	24.58
CA_[2A]-29A-30A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	2x2	24.34	24.58
CA_[2A]-29A-[30A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	4x4	24.36	24.58
CA_[2A]-29A-[30A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	4x4	24.40	24.58
CA_[2A]-[30A]-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	4x4	24.39	24.58
CA_[2A]-[30A]-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	4x4	24.38	24.58
CA_2A-66A-[66A]-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B71	20	68761	634.5	2x2	24.38	24.58
CA_2A-[66A]-66A-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B71	20	68761	634.5	2x2	24.42	24.58
CA_[2A]-66A-66A-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B71	20	68761	634.5	2x2	24.55	24.58
CA_2A-[66A]-[66A]-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B71	20	68761	634.5	2x2	24.42	24.58
CA_[2A]-66A-[66A]-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B71	20	68761	634.5	2x2	24.56	24.58
CA_[2A]-[66A]-66A-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B71	20	68761	634.5	2x2	24.53	24.58
CA_[2A]-[66A]-[66A]-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B71	20	68761	634.5	2x2	24.55	24.58
CA_2A-[66C]-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	2x2	LTE B71	20	68761	634.5	2x2	24.56	24.58
CA_[2A]-66C-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	66615	2127.9	2x2	LTE B2	20	900	1960	4x4	LTE B71	20	68761	634.5	2x2	24.60	24.58
CA_[2A]-[66C]-71A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	4x4	LTE B71	20	68761	634.5	2x2	24.54	24.58
CA_5A-5A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B5	10	2525	881.5	2x2	LTE B5	5	2425	871.5	2x2	24.36	24.58
CA_5A-5A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2425	871.5	2x2	24.46	24.58
CA_5A-5A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2425	871.5	2x2	24.57	24.58
CA_5A-5A-[66B]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	5	66693	2135.7	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2425	871.5	2x2	24.57	24.58
CA_5A-5A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2425	871.5	2x2	24.51	24.58
CA_5A-[30A]-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B5	10	2525	881.5	2x2	LTE B30	10	9820	2355	4x4	24.43	24.58
CA_12A-[30A]-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B12	10	5095	737.5	2x2	LTE B30	10	9820	2355	4x4	24.50	24.58
CA_13A-48A-48A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B13	10	5230	751	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	24.45	24.58
CA_13A-48A-[66B]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	5	66693	2135.7	4x4	LTE B13	10	5230	751	2x2	LTE B48	20	55990	3625	2x2	24.36	24.58
CA_13A-48A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B13	10	5230	751	2x2	LTE B48	20	55990	3625	2x2	24.32	24.58
CA_14A-[30A]-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B14	10	5350	763	2x2	LTE B30	10	9820	2355	4x4	24.52	24.58
CA_29A-[30A]-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	4x4	24.40	24.58
CA_29A-[30A]-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	4x4	24.58	24.58
CA_29A-[30A]-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	4x4	24.38	24.58
CA_29A-30A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	2x2	24.46	24.58
CA_29A-30A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	2x2	24.40	24.58
CA_29A-30A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	2x2	24.45	24.58
CA_29A-[30A]-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B29	10	9715	722.5	2x2	LTE B30	10	9820	2355	4x4	24.50	24.58
CA_48A-48A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	24.32	24.58
CA_48A-48A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	24.46	24.58
CA_48A-48A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	24.42	24.58
CA_48A-48A-[66B]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	5	66693	2135.7	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	24.35	24.58
CA_48A-48A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	24.34	24.58
CA_48C-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	24.30	24.58
CA_48C-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	24.38	24.58
CA_48C-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	56188	3644.8	2x2	24.44	24.58
CA_2A-46A-46A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	47090	5180	2x2	24.49	24.58
CA_[2A]-46A-46A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	47090	5180	2x2	24.29	24.58
CA_[2A]-46A-46A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	47090	5180	2x2	24.41	24.58
CA_[2A]-46C-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	24.56	24.58
CA_2A-46A-48A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B48	20	55990	3625	2x2	24.35	24.58
CA_[2A]-46A-48A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B48	20	55990	3625	2x2	24.39	24.58
CA_[2A]-46A-48A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B48	20	55990	3625	2x2	24.36	24.58
CA_5A-46C-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B5	10	2525	881.5	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	24.44	24.58
CA_7A-46C-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B7	20	3100	2655	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	24.56	24.58
CA_[7A]-46C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B7	20	3100	2655	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	24.67	24.58
CA_[7A]-46C-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B7	20	3100	2655	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	24.67	24.58
CA_13A-46C-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B13	10	5230	751	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	24.44	24.58
CA_46C-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	24.30	24.58
CA_46C-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	24.44	24.58
CA_46C-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	24.38	24.58

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	PCC										SCC 1					SCC 2					SCC 3					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 [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 B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B5	10	2525	881.5	2x2	24.61	24.58
CA_2A-2A-5A-[30A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B5	10	2525	881.5	2x2	24.62	24.58
CA_[2A]-2A-5A-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B5	10	2525	881.5	2x2	24.71	24.58
CA_[2A]-[2A]-5A-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B5	10	2525	881.5	2x2	24.73	24.58
CA_2A-2A-5A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1940	2x2	LTE B2	20	700	1940	2x2	24.71	24.58
CA_2A-2A-5A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	24.65	24.58
CA_[2A]-2A-5A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.68	24.58
CA_2A-2A-5A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	24.71	24.58
CA_[2A]-2A-5A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.68	24.58
CA_[2A]-2A-5A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.66	24.58
CA_[2A]-[2A]-5A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	24.72	24.58
CA_2A-2A-5A-[66B]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	5	66693	2135.7	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	24.74	24.58
CA_[2A]-2A-5A-[66B]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	5	66693	2135.7	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.68	24.58
CA_[2A]-2A-5A-[66B]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	5	66693	2135.7	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.74	24.58
CA_[2A]-[2A]-5A-66B	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	5	66693	2135.7	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	24.72	24.58
CA_[2A]-2A-5A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	5	66693	2135.7	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	24.81	24.58
CA_2A-2A-5A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	24.79	24.58
CA_[2A]-2A-5A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	66615	2127.9	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.72	24.58
CA_[2A]-2A-5A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.71	24.58
CA_[2A]-[2A]-5A-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	66615	2127.9	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	24.71	24.58
CA_[2A]-[2A]-5A-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	24.77	24.58
CA_2A-2A-12A-30A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	24.67	24.58
CA_2A-2A-12A-[30A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	24.65	24.58
CA_[2A]-2A-12A-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	24.66	24.58
CA_[2A]-[2A]-12A-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B12	10	5095	737.5	2x2	24.69	24.58
CA_2A-2A-12A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	24.66	24.58
CA_2A-2A-12A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.71	24.58
CA_2A-2A-12A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	24.72	24.58
CA_2A-2A-12A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.69	24.58
CA_[2A]-2A-12A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.70	24.58
CA_[2A]-[2A]-12A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	24.71	24.58
CA_2A-2A-12A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	24.68	24.58
CA_2A-2A-12A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	24.67	24.58
CA_[2A]-2A-12A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.68	24.58
CA_[2A]-2A-12A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	24.66	24.58
CA_[2A]-2A-12A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.63	24.58
CA_2A-2A-13A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.75	24.58
CA_[2A]-2A-13A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	24.74	24.58
CA_2A-2A-13A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.66	24.58
CA_[2A]-2A-13A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.63	24.58
CA_[2A]-[2A]-13A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	24.74	24.58
CA_2A-2A-14A-30A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B14	10	5330	763	2x2	24.66	24.58
CA_2A-2A-14A-[30A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B14	10	5330	763	2x2	24.63	24.58
CA_[2A]-2A-14A-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B14	10	5330	763	2x2	24.67	24.58
CA_[2A]-[2A]-14A-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B14	10	5330	763	2x2	24.66	24.58
CA_2A-2A-14A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	24.63	24.58
CA_2A-2A-14A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.53	24.58
CA_[2A]-2A-14A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.63	24.58
CA_2A-2A-14A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	24.71	24.58
CA_[2A]-2A-14A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.60	24.58
CA_[2A]-2A-14A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	24.58	24.58
CA_[2A]-[2A]-14A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	24.69	24.58
CA_2A-5B-30A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	24.68	24.58
CA_2A-5B-[30A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	24.65	24.58
CA_[2A]-5B-30A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	24.63	24.58
CA_2A-5B-[30A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	24.62	24.58
CA_[2A]-5B-30A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	24.62	24.58
CA_[2A]-5B-[30A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	24.63	24.58
CA_2A-5B-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	24.74	24.58
CA_2A-5B-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	24.63	24.58
CA_[2A]-5B-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.61	24.58
CA_2A-5B-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	24.65	24.58
CA_[2A]-5B-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.64	24.58
CA_[2A]-5B-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.63	24.58
CA_[2A]-5B-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.56	24.58
CA_2A-5B-[66B]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	5	66693	2135.7	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	24.66	24.58
CA_[2A]-5B-66B	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	5	66693	2135.7	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.61	24.58
CA_[2A]-5B-[66B]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	5	66693	2135.7	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.66	24.58
CA_2A-5B-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	24.62	24.58
CA_[2A]-5B-66C	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	66615	2127.9	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.62	24.58
CA_[2A]-5B-[66C]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	66615	2127.9	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.60	24.58
CA_2A-5A-30A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	24.69	24.58
CA_2A-5A-30A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	24.58	24.58
CA_2A-5A-[30A]-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	24.67	24.58
CA_[2A]-5A-30A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.66	24.58
CA_2A-5A-30A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	24.63	24.58
CA_2A-5A-[30A]-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	24.61	24.58
CA_[2A]-5A-30A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	24.69	24.58
CA_[2A]-5A-30A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.67	24.58
CA_[2A]-5A-30A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.62	24.58
CA_[2A]-5A-30A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	24.62	24.58
CA_2A-5A-[30A]-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B48	20	55990	3625	2x2	24.66	24.58
CA_[2A]-5A-30A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B48	20	55990	3625	2x2	24.58	24.58
CA_[2A]-5A-30A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B48	20	55990	3625	2x2	24.65	24.58
CA_[2A]-5A-30A-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B48	20	55990	3625	2x2	24.60	24.58
CA_2A-5A-48C-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	24.56	24.58
CA_[2A]-5A-48C-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	24.63	24.58
CA_[2A]-5A-48C-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B48	20	55990	3625	2x2	LTE B48	20	55340	3560	2x2	24.58	24.58
CA_2A-12A-30A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	24.68	24.58
CA_2A-12A-30A-[66A]-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	24.62	24.58
CA_2A-12A-[30A]-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	24.66	24.58
CA_[2A]-12A-30A-66A-66A	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	24.70	24.58
CA_2A-12A-30A-[66A]-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	24.53	24.58
CA_2A-12A-[30A]-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	2x2	LTE B66	20	67236	2190	4x4	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	24.67	24.58
CA_2A-12A-[30A]-66A-[66A]	LTE B66	15	132322	1745	QPSK	1	74	66786	2145	4x4	LTE B66	20	67236	2190	2x2	LTE B2	20	900	1960

	PCC									SCC 1					SCC 2					SCC 3					SCC 4					SCC 5					SCC 6					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 (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.	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-46E-39A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B46	20	50269	5497.9	2x2	-	-	-	-	-	24.60	24.58
CA_12A]-46E-39A	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B46	20	50269	5497.9	2x2	-	-	-	-	-	24.57	24.58
CA_12A]-46E-39AA]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B46	20	50269	5497.9	2x2	-	-	-	-	-	24.48	24.58
CA_2A]-46D-39A-66A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B46	20	50269	5497.9	2x2	-	-	-	-	-	24.57	24.58
CA_2]-46D-39A-66A	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B46	20	50269	5497.9	2x2	-	-	-	-	-	24.53	24.58
CA_2]A]-46D-39A-66A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B46	20	50269	5497.9	2x2	-	-	-	-	-	24.35	24.58
CA_2A-46C-48C-39A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	-	-	-	-	-	24.66	24.58
CA_2]A]-46C-48C-66A	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	-	-	-	-	-	24.56	24.58
CA_2]A]-46C-48C-66A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	-	-	-	-	-	24.56	24.58
CA_2A-46A-48D-39A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B48	20	56386	3664.6	2x2	-	-	-	-	-	24.54	24.58
CA_2]A]-46A-48D-66A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B48	20	56386	3664.6	2x2	-	-	-	-	-	24.56	24.58
CA_2]A]-46A-48D-66A	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B48	20	56386	3664.6	2x2	-	-	-	-	-	24.54	24.58
CA_46E-48E-39A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B46	20	50269	5497.9	2x2	LTE B48	20	51990	3625	2x2	-	-	-	-	-	24.60	24.58
CA_46A-48E-39A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	51990	3625	2x2	LTE B46	20	56188	3644.8	2x2	LTE B46	20	56386	3664.6	2x2	LTE B48	20	52792	3455.2	2x2	-	-	-	-	-	24.68	24.58
CA_46E-48A-39A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B46	20	50269	5497.9	2x2	LTE B48	20	51990	3625	2x2	-	-	-	-	-	24.60	24.58
CA_2A-46C-48D-39A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B48	20	56386	3664.6	2x2	24.48	24.58
CA_2]A]-46C-48D-39A	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B48	20	56386	3664.6	2x2	24.47	24.58
CA_2]A]-46C-48D-66A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	LTE B48	20	56386	3664.6	2x2	24.38	24.58
CA_2A-46D-48C-39A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50269	5497.9	2x2	LTE B48	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	24.70	24.58
CA_2]A]-46D-48C-66A	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50269	5497.9	2x2	LTE B48	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	24.50	24.58
CA_2]A]-46D-48C-66A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50269	5497.9	2x2	LTE B48	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	24.42	24.58
CA_46E-48C-39A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50269	5497.9	2x2	LTE B46	20	50863	5557.3	2x2	LTE B48	20	51990	3625	2x2	LTE B48	20	56188	3644.8	2x2	24.62	24.58
CA_46C-48E-39A]	LTE B66	15	132222	1745	QPSK	1	74	66786	2145	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	51990	3625	2x2	LTE B46	20	56188	3644.8	2x2	LTE B48	20	56386	3664.6	2x2	LTE B48	20	52792	3455.2	2x2	24.40	24.58

1.4.9 LTE Band 25 as PCC

Table 23
Maximum Output Powers

	PCC									SCC 1					SCC 2					SCC 3					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 (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	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4	LTE B26	15	8865	876.5	2x2	-	-	-	-	-	-	-	-	-	-	23.95	23.90
CA_25A-[41A]	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	2x2	LTE B41	20	40620	2593	4x4	-	-	-	-	-	-	-	-	-	-	23.82	23.90
CA_[25A]-41A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4	LTE B41	20	40620	2593	2x2	-	-	-	-	-	-	-	-	-	-	23.89	23.90
CA_[25A]-[41A]	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4	LTE B41	20	40620	2593	4x4	-	-	-	-	-	-	-	-	-	-	23.88	23.90
CA_[25A]-46A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	23.94	23.90
CA_[25A]-25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4	LTE B25	20	8590	1985	2x2	LTE B26	5	8865	876.5	2x2	-	-	-	-	-	23.99	23.90
CA_25A-[25A]-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	2x2	LTE B25	20	8590	1985	4x4	LTE B26	5	8865	876.5	2x2	-	-	-	-	-	23.99	23.90
CA_[25A]-[25A]-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4	LTE B25	20	8590	1985	4x4	LTE B26	5	8865	876.5	2x2	-	-	-	-	-	23.95	23.90
CA_25A-[41C]	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	-	-	23.80	23.90
CA_[25A]-41C	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4	LTE B41	20	40620	2593	2x2	LTE B41	20	40422	2573.2	2x2	-	-	-	-	-	23.84	23.90
CA_[25A]-[41C]	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	-	-	23.83	23.90
CA_25A-[41D]	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	2x2	LTE B41	20	40422	2573.2	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	40818	2612.8	4x4	23.74	23.90
CA_[25A]-41D	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4	LTE B41	20	40422	2573.2	2x2	LTE B41	20	40620	2593	2x2	LTE B41	20	40818	2612.8	2x2	23.72	23.90
CA_[25A]-[41D]	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4	LTE B41	20	40422	2573.2	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	40818	2612.8	4x4	23.77	23.90

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1.4.10 LTE Band 30 as PCC

Table 24
Maximum Output Powers

	PCC										SCC 1					SCC 2					SCC 3					SCC 4					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 (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-4A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	-	-	-	-	-	22.76	22.78
CA_4A-5A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B4	20	2175	2132.5	2x2	LTE B5	10	2525	881.5	2x2	-	-	-	-	-	-	-	-	-	-	22.66	22.78
CA_4A-12A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B4	20	2175	2132.5	2x2	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	22.71	22.78
CA_4A-29A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B4	20	2175	2132.5	2x2	LTE B29	10	9715	722.5	2x2	-	-	-	-	-	-	-	-	-	-	22.76	22.78
CA_2A-2A-5A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B5	10	2525	881.5	2x2	-	-	-	-	-	22.75	22.78
CA_2A-[2A]-5A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B5	10	2525	881.5	2x2	-	-	-	-	-	22.78	22.78
CA_2A-12A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	22.69	22.78
CA_2A-2A-12A-30A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	22.63	22.78
CA_2A-2A-12A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	22.86	22.78
CA_[2A]-[2A]-12A-30A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	22.80	22.78
CA_[2A]-[2A]-12A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	22.84	22.78
CA_[2A]-2A-14A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B14	10	5350	763	2x2	-	-	-	-	-	22.78	22.78
CA_[2A]-[2A]-14A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B14	10	5350	763	2x2	-	-	-	-	-	22.79	22.78
CA_2A-2A-29A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B29	10	9715	722.5	2x2	-	-	-	-	-	22.78	22.78
CA_[2A]-2A-29A-30A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B29	10	9715	722.5	2x2	-	-	-	-	-	22.84	22.78
CA_[2A]-2A-29A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B29	10	9715	722.5	2x2	-	-	-	-	-	22.81	22.78
CA_[2A]-[2A]-29A-30A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B29	10	9715	722.5	2x2	-	-	-	-	-	22.89	22.78
CA_[2A]-[2A]-29A-[30A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B29	10	9715	722.5	2x2	-	-	-	-	-	22.81	22.78
CA_2A-2A-[30A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	22.83	22.78
CA_[2A]-2A-30A-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	22.88	22.78
CA_[2A]-2A-[30A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	2x2	-	-	-	-	-	22.86	22.78
CA_[2A]-2A-[30A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	22.85	22.78
CA_[2A]-[2A]-[30A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	2x2	-	-	-	-	-	22.80	22.78
CA_[2A]-5A-[30A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	22.77	22.78
CA_[2A]-12A-[30A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	22.82	22.78
CA_[2A]-[30A]-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	-	-	-	-	-	22.83	22.78
CA_[2A]-[30A]-[66A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	-	-	-	-	-	22.79	22.78
CA_5A-[30A]-[66A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	22.65	22.78
CA_12A-[30A]-[66A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	22.69	22.78
CA_14A-[30A]-[66A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B14	10	5330	763	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	22.70	22.78
CA_29A-[30A]-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B29	10	9715	722.5	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	-	-	-	-	-	22.73	22.78
CA_29A-[30A]-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B29	10	9715	722.5	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	4x4	-	-	-	-	-	22.71	22.78
CA_29A-30A-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B29	10	9715	722.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	22.80	22.78
CA_29A-30A-[66A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B29	10	9715	722.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	22.82	22.78
CA_29A-[30A]-[66A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B29	10	9715	722.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	22.76	22.78
CA_2A-2A-5A-30A-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	22.90	22.78
CA_2A-2A-5A-[30A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	2x2	22.76	22.78
CA_[2A]-2A-5A-30A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	2x2	22.95	22.78
CA_[2A]-[2A]-5A-30A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	2x2	22.88	22.78
CA_2A-2A-12A-30A-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	22.89	22.78
CA_2A-2A-12A-[30A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	2x2	22.77	22.78
CA_[2A]-2A-12A-30A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	2x2	22.87	22.78
CA_2A-5B-[30A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B66	20	66786	2145	4x4	22.89	22.78
CA_[2A]-5B-[30A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B66	20	66786	2145	4x4	22.92	22.78
CA_[2A]-5B-[30A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B66	20	66786	2145	2x2	22.95	22.78
CA_2A-5B-[30A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B66	20	66786	2145	4x4	22.89	22.78
CA_[2A]-5B-30A-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B66	20	66786	2145	4x4	22.92	22.78
CA_[2A]-5B-[30A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B66	20	66786	2145	2x2	22.91	22.78
CA_2A-5A-30A-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	22.80	22.78
CA_2A-5A-[30A]-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	22.83	22.78
CA_[2A]-5A-30A-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	22.77	22.78
CA_[2A]-5A-[30A]-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	22.93	22.78
CA_[2A]-5A-[30A]-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	22.80	22.78
CA_2A-12A-30A-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	23.02	22.78
CA_2A-12A-[30A]-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	22.89	22.78
CA_[2A]-12A-30A-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	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	23.03	22.78
CA_2A-12A-[30A]-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	22.91	22.78
CA_[2A]-12A-[30A]-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	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	2x2	22.94	22.78
CA_[2A]-12A-[30A]-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	22.88	22.78
CA_2A-14A-30A-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	2x2	LTE B14	10	5330	763	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	23.02	22.78
CA_2A-14A-[30A]-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B14	10	5330	763	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	22.91	22.78
CA_[2A]-14A-30A-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	4x4	LTE B14	10	5330	763	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	22.96	22.78
CA_2A-14A-30A-[66A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B2	20	900	1960	2x2	LTE B14	10	5330	763	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	23.00	22.78
CA_2A-14A-[30A]-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B14	10	5330	763	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	22.78	22.78
CA_[2A]-14A-30A-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B14	10	5330	763	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	23.02	22.78
CA_[2A]-14A-[30A]-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B14	10	5330	763	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	23.01	22.78
CA_5B-30A-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	22.71	22.78
CA_5B-[30A]-66A-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	22.78	22.78
CA_5B-30A-[66A]-[66A]	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	2x2	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	22.72	22.78
CA_5B-[30A]-[66A]-66A	LTE B30	5	27710	2310	QPSK	1	12	9820	2355	4x4	LTE B5	10	2525	881.5	2x2	LTE B5	5	2453	874.3	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	22.77	22.78

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1.4.11 LTE Band 7 as PCC

Table 25
Maximum Output Powers

	PCC										SCC 1					SCC 2					SCC 3					SCC 4					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 [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_[7C] (1)	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B7	20	2929	2637.9	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.48	23.53
CA_[7A]-46A (1)	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.51	23.53
CA_7A-[7A]-46A	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	2x2	LTE B7	20	2850	2630	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	23.48	23.53
CA_[7A]-7A-46A	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B7	20	2850	2630	2x2	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	23.43	23.53
CA_[7A]-[7A]-46A	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B7	20	2850	2630	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	23.34	23.53
CA_7A-[7A]-46C	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	2x2	LTE B7	20	2850	2630	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	-	-	-	-	-	23.46	23.53
CA_[7A]-7A-46C	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B7	20	2850	2630	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	-	-	-	-	-	23.54	23.53
CA_[7A]-[7A]-46C	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B7	20	2850	2630	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	-	-	-	-	-	23.47	23.53
CA_[7A]-46D (1)	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2						23.49	23.53
CA_7A-[7A]-46D	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	2x2	LTE B7	20	2850	2630	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	23.52	23.53
CA_[7A]-7A-46D	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B7	20	2850	2630	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	23.57	23.53
CA_[7A]-[7A]-46D	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B7	20	2850	2630	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	23.55	23.53
CA_[7A]-46E	LTE B7	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B46	20	50269	5497.9	2x2	23.54	23.53

1.4.1 LTE Band 7 Ant A as PCC

Table 26
Maximum Output Powers

	PCC										SCC 1					SCC 2					SCC 3					SCC 4					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 [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 AntA Tx Power (dBm)
CA_2A-[4A]-7A^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B2	20	900	1960	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	23.64	23.72
CA_2A-[4A]-[7A]^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	23.75	23.72
CA_[2A]-[4A]-7A^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	23.53	23.72
CA_[2A]-[4A]-[7A]^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	23.72	23.72
CA_2A-[7A]^-12A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	23.77	23.72
CA_[2A]-7A^-12A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	23.66	23.72
CA_[2A]-[7A]^-12A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	23.68	23.72
CA_[4A]-7A^-7A^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B7 AntA	20	3350	2680	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	23.54	23.72
CA_4A-[7A]^-12A (1)	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B4	20	2175	2132.5	2x2	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	23.66	23.72
CA_[4A]-7A^-12A (1)	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	23.65	23.72
CA_[7A]^-12B	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B12	5	5095	737.5	2x2	LTE B12	5	5047	732.7	2x2	-	-	-	-	-	-	-	-	-	-	23.57	23.72
CA_7A^-[66A]-[66A]	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	-	-	-	-	-	23.60	23.72
CA_[7A]^-[66A]-[66A]	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	-	-	-	-	-	23.61	23.72
CA_2A-(7A)^-46A	LTE B7 AntA	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	23.73	23.53
CA_[2A]-7A^-46A	LTE B7 AntA	15	21100	2535	QPSK	1	0	3100	2655	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	23.74	23.53
CA_[2A]-[7A]^-46A	LTE B7 AntA	15	21100	2535	QPSK	1	0	3100	2655	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	23.71	23.53
CA_7A^-46A-[66A]	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B46	20	50665	5537.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	23.50	23.72
CA_[7A]^-46A-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B46	20	50665	5537.5	2x2	LTE B66	20	66786	2145	2x2	-	-	-	-	-	-	-	-	-	-	23.62	23.72
CA_[7A]^-46A-[66A]	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B46	20	50665	5537.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	23.61	23.72
CA_2A-4A-7A^-[7A]^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B7 AntA	20	3350	2680	4x4	LTE B2	20	900	1960	2x2	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	23.58	23.72
CA_2A-4A-[7A]^-7A^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	3350	2680	2x2	LTE B2	20	900	1960	2x2	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	23.16	23.72
CA_[2A]-4A-7A^-7A^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B7 AntA	20	3350	2680	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	23.65	23.72
CA_2A-4A-[7A]^-[7A]^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	3350	2680	4x4	LTE B2	20	900	1960	2x2	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	23.27	23.72
CA_[2A]-4A-7A^-[7A]^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B7 AntA	20	3350	2680	4x4	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	23.67	23.72
CA_[2A]-4A-[7A]^-7A^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	3350	2680	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	23.17	23.72
CA_[2A]-4A-[7A]^-[7A]^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	3350	2680	4x4	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	23.55	23.72
CA_2A-4A-[7C]^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	2996	2644.6	4x4	LTE B2	20	900	1960	2x2	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	23.50	23.72
CA_2A-[4A]-7C^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B7 AntA	20	2996	2644.6	2x2	LTE B2	20	900	1960	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	23.15	23.72
CA_[2A]-4A-7C^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B7 AntA	20	2996	2644.6	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	23.61	23.72
CA_2A-[4A]-7C]^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	2996	2644.6	4x4	LTE B2	20	900	1960	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	23.68	23.72
CA_[2A]-4A-[7C]^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	2996	2644.6	4x4	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	2x2	-	-	-	-	-	23.67	23.72
CA_[2A]-[4A]-7C^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B7 AntA	20	2996	2644.6	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	23.23	23.72
CA_[2A]-[4A]-[7C]^	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	2996	2644.6	4x4	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	23.70	23.72
CA_2A-7A^-[66A]-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	-	-	-	-	-	23.75	23.72
CA_2A-[7A]^-66A-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	-	-	-	-	-	23.60	23.72
CA_[2A]-7A^-66A-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	-	-	-	-	-	23.70	23.72
CA_2A-[7A]^-[66A]-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	-	-	-	-	-	23.75	23.72
CA_[2A]-7A^-[66A]-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	-	-	-	-	-	23.71	23.72
CA_[2A]-[7A]^-66A-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	-	-	-	-	-	23.77	23.72
CA_[2A]-[7A]^-[66A]-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	-	-	-	-	-	23.76	23.72
CA_2A-7A^-[66C]	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	-	-	-	-	-	23.71	23.72
CA_2A-(7A)^-66C	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	2x2	LTE B66	20	66984	2164.8	2x2	-	-	-	-	-	23.75	23.72
CA_[2A]-7A^-66C	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	66984	2164.8	2x2	-	-	-	-	-	23.70	23.72
CA_2A-[7A]^-66C	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	-	-	-	-	-	23.72	23.72
CA_[2A]-7A^-[66C]	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	-	-	-	-	-	23.69	23.72
CA_[2A]-7A^-66C	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	66984	2164.8	2x2	-	-	-	-	-	23.70	23.72
CA_[2A]-[7A]^-[66C]	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	-	-	-	-	-	23.69	23.72
CA_2A-[7A]^-7A^-46A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	3350	2680	2x2	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	23.54	23.72
CA_2A-7A^-[7A]^-46A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B7 AntA	20	3350	2680	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	23.72	23.72
CA_2A-[7A]^-[7A]^-46A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	3350	2680	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	-	-	-	-	-	23.61	23.72
CA_[2A]-7A^-46C	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	-	-	-	-	-	23.64	23.72
CA_[2A]-[7A]^-46C	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	-	-	-	-	-	23.59	23.72
CA_7A^-46C-[66A]	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	23.69	23.72
CA_[7A]^-46C-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B66	20	66786	2145	2x2	-	-	-	-	-	23.82	23.72
CA_[7A]^-46C-[66A]	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	23.83	23.72
CA_2A-7A^-[7A]^-46C	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B7 AntA	20	3350	2680	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	23.72	23.72
CA_2A-[7A]^-7A^-46C	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	3350	2680	2x2	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	23.84	23.72
CA_2A-[7A]^-[7A]^-46C	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B7 AntA	20	3350	2680	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	23.89	23.72
CA_2A-[7A]^-46D	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B2	20	900	1960	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	23.76	23.72
CA_7A^-46D-[66A]	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	2x2	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B66	20	66786	2145	4x4	23.73	23.72
CA_[7A]^-46D-66A	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B66	20	66786	2145	2x2	23.74	23.72
CA_[7A]^-46D-[66A]	LTE B7 AntA	15	20825	2507.5	QPSK	1	74	2825	2627.5	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	LTE B46	20	50863	5557.3	2x2	LTE B66	20	66786	2145	4x4	23.79	23.72

Note: ^ - Indicates that Band 7 operations are using antenna A

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1.4.2 LTE Band 41 as PCC

Table 27
Maximum Output Powers

	PCC										SCC 1					SCC 2					SCC 3					SCC 4					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 (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_{41A}-41A (1)	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	39750	2506	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.52	23.59
CA_41A-{41A} (1)	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	39750	2506	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.55	23.59
CA_{41A}-{41A} (1)	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	39750	2506	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.56	23.59
CA_41A-{41C}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	-	-	-	-	-	-	-	-	-	-	23.55	23.59
CA_{41C}-41A	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	39750	2506	2x2	-	-	-	-	-	-	-	-	-	-	23.51	23.59
CA_{41A}-41C	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	39948	2525.8	2x2	LTE B41	20	39750	2506	2x2	-	-	-	-	-	-	-	-	-	-	23.51	23.59
CA_41C-{41A}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	41292	2660.2	2x2	LTE B41	20	39750	2506	4x4	-	-	-	-	-	-	-	-	-	-	23.65	23.59
CA_{41A}-{41C}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	-	-	-	-	-	-	-	-	-	-	23.52	23.59
CA_{41C}-{41A}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	39750	2506	4x4	-	-	-	-	-	-	-	-	-	-	23.52	23.59
CA_41A-{41D}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	40146	2545.6	4x4	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	-	-	-	-	-	23.51	23.59
CA_{41D}-41A	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	39750	2506	2x2	-	-	-	-	-	-	-	-	-	-	23.57	23.59
CA_{41A}-41D	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	40146	2545.6	2x2	LTE B41	20	39948	2525.8	2x2	LTE B41	20	39750	2506	2x2	-	-	-	-	-	23.53	23.59
CA_41D-{41A}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	41292	2660.2	2x2	LTE B41	20	41094	2640.4	2x2	LTE B41	20	39750	2506	4x4	-	-	-	-	-	23.54	23.59
CA_{41A}-{41D}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	40146	2545.6	4x4	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	-	-	-	-	-	23.51	23.59
CA_{41D}-{41A}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41094	2640.4	4x4	LTE B41	20	39750	2506	4x4	-	-	-	-	-	23.56	23.59
CA_{41C}-41C	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	39948	2525.8	2x2	LTE B41	20	39750	2506	2x2	-	-	-	-	-	23.55	23.59
CA_{41C}-{41C}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	41292	2660.2	2x2	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	-	-	-	-	-	23.51	23.59
CA_{41C}-{41C}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	-	-	-	-	-	23.50	23.59
CA_{41E}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41094	2640.4	4x4	LTE B41	20	40896	2620.6	4x4	-	-	-	-	-	23.51	23.59
CA_41C-{41D}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	41292	2660.2	2x2	LTE B41	20	40146	2545.6	4x4	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	23.56	23.59
CA_{41D}-41C	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41094	2640.4	4x4	LTE B41	20	39948	2525.8	2x2	LTE B41	20	39750	2506	2x2	23.60	23.59
CA_{41C}-{41D}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	40146	2545.6	2x2	LTE B41	20	39948	2525.8	2x2	LTE B41	20	39750	2506	2x2	23.61	23.59
CA_41D-{41C}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	41292	2660.2	2x2	LTE B41	20	41094	2640.4	2x2	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	23.52	23.59
CA_{41C}-{41D}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	40146	2545.6	4x4	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	23.65	23.59
CA_{41D}-{41C}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41094	2640.4	4x4	LTE B41	20	39948	2525.8	4x4	LTE B41	20	39750	2506	4x4	23.57	23.59
CA_{41F}	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41094	2640.4	4x4	LTE B41	20	40896	2620.6	4x4	LTE B41	20	40698	2600.8	4x4	23.52	23.59

1.4.3 LTE Band 41 PC2 as PCC

Table 28
Maximum Output Powers

	PCC										SCC 1					SCC 2					SCC 3					SCC 4					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 (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_{41A}-41A (1)	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	41490	2680	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.46	27.60
CA_41A-{41A} (1)	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	2x2	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.40	27.60
CA_{41A}-{41A} (1)	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.49	27.60
CA_41A-{41C}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	2x2	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	-	-	-	-	-	27.38	27.60
CA_{41C}-41A	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	41490	2680	2x2	-	-	-	-	-	-	-	-	-	-	27.44	27.60
CA_{41A}-41C	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	41292	2660.2	2x2	LTE B41 PC2	20	41490	2680	2x2	-	-	-	-	-	-	-	-	-	-	27.43	27.60
CA_41C-{41A}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	2x2	LTE B41 PC2	20	39921	2523.1	2x2	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	-	-	-	-	-	27.37	27.60
CA_{41A}-{41C}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	-	-	-	-	-	27.45	27.60
CA_{41C}-{41A}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	-	-	-	-	-	27.48	27.60
CA_41A-{41D}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	2x2	LTE B41 PC2	20	41094	2640.4	4x4	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	27.40	27.60
CA_{41D}-41A	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	40119	2542.9	4x4	LTE B41 PC2	20	41490	2680	2x2	-	-	-	-	-	27.44	27.60
CA_{41A}-41D	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	41094	2640.4	2x2	LTE B41 PC2	20	41292	2660.2	2x2	LTE B41 PC2	20	41490	2680	2x2	-	-	-	-	-	27.48	27.60
CA_41D-{41A}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	2x2	LTE B41 PC2	20	39921	2523.1	2x2	LTE B41 PC2	20	40119	2542.9	2x2	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	27.43	27.60
CA_{41A}-{41D}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	41094	2640.4	4x4	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	27.47	27.60
CA_{41D}-{41A}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	40119	2542.9	4x4	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	27.51	27.60
CA_{41C}-41C	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	41292	2660.2	2x2	LTE B41 PC2	20	41490	2680	2x2	-	-	-	-	-	27.48	27.60
CA_{41C}-{41C}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	2x2	LTE B41 PC2	20	39921	2523.1	2x2	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	27.40	27.60
CA_{41C}-{41C}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	27.46	27.60
CA_{41E}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	40119	2542.9	4x4	LTE B41 PC2	20	40317	2562.7	4x4	-	-	-	-	-	27.48	27.60
CA_41C-{41D}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	2x2	LTE B41 PC2	20	39921	2523.1	2x2	LTE B41 PC2	20	41094	2640.4	4x4	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	27.66	27.60
CA_{41D}-41C	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	40119	2542.9	4x4	LTE B41 PC2	20	41292	2660.2	2x2	LTE B41 PC2	20	41490	2680	2x2	27.65	27.60
CA_{41C}-{41D}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	41094	2640.4	2x2	LTE B41 PC2	20	41292	2660.2	2x2	LTE B41 PC2	20	41490	2680	2x2	27.69	27.60
CA_41D-{41C}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	2x2	LTE B41 PC2	20	39921	2523.1	2x2	LTE B41 PC2	20	40119	2542.9	2x2	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	27.67	27.60
CA_{41C}-{41D}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	41094	2640.4	4x4	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	27.66	27.60
CA_{41D}-{41C}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	40119	2542.9	4x4	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	27.67	27.60
CA_{41F}	LTE B41 PC2	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41 PC2	20	39921	2523.1	4x4	LTE B41 PC2	20	40119	2542.9	4x4	LTE B41 PC2	20	40317	2562.7	4x4	LTE B41 PC2	20	40515	2582.5	4x4	27.66	27.60

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1.5 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 ULCA active.

1.5.1 DL Carrier Aggregation RF Conducted Powers

Table 29
Maximum Output Powers

	PCC							SCC1							SCC2				Power	
Combination on DL	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	CA_41C ULCA Tx. Power with add'l CA configuration active in DL (dBm)	CA_41C ULCA Tx. Power (dBm)
CA_41D	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	LTE B41	20	41094	2640.4	24.04	24.03
	PCC							SCC1							SCC2				Power	
Combination on DL	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	CA_41C ULCA Tx. Power with add'l CA configuration active in DL (dBm)	CA_41C ULCA Tx. Power (dBm)
CA_41D	LTE B41 PC2	20	41490	2680.0	QPSK	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	LTE B41 PC2	20	41094	2640.4	27.19	27.25

1.5.2 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 30
Maximum Output Powers

	PCC										SCC										Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	DL Ant. Config.	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	DL Ant. Config.	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_[66C]	LTE B66	20	132572	1770.0	4x4	67036	2170.0	QPSK	1	0	LTE B66	20	132374	1750.2	4x4	66838	2150.2	QPSK	1	99	24.72	24.94
CA_[66B]	LTE B66	10	132622	1775.0	4x4	67086	2175.0	QPSK	1	0	LTE B66	10	132523	1765.1	4x4	66987	2165.1	QPSK	1	49	24.60	24.92
	PCC										SCC										Power	
Combination on DL	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	DL Ant. Config.	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	DL Ant. Config.	Modulation	SCC UL# RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	DL Ant. Config.	CA_41C ULCA Tx. Power with add'l CA configuration active in DL (dBm)	CA_41C ULCA Tx. Power (dBm)
CA_[41C] (1)	LTE B41	20	41490	2680.0	4x4	QPSK	1	0	LTE B41	20	41292	2660.2	4x4	QPSK	1	99	-	-	-	-	-	23.88	24.03
CA_[41D]	LTE B41	20	41490	2680.0	4x4	QPSK	1	0	LTE B41	20	41292	2660.2	4x4	QPSK	1	99	LTE B41	20	41094	2640.4	4x4	23.80	24.03
	PCC								SCC1								SCC2					Power	
Combination on DL	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	DL Ant. Config.	CA_41C ULCA Tx. Power with add'l CA configuration active in DL (dBm)	CA_41C ULCA Tx. Power (dBm)
CA_[41C] (1)	LTE B41 PC2	20	41490	2680.0	QPSK	1	0	4x4	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	4x4	-	-	-	-	-	27.12	27.25
CA_[41D]	LTE B41 PC2	20	41490	2680.0	QPSK	1	0	4x4	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	4x4	LTE B41 PC2	20	41094	2640.4	4x4	27.14	27.25

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APPENDIX I: IEEE 802.11AX RU SAR EXCLUSION

1.1 IEEE 802.11ax RU SAR Exclusion

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax can utilize Orthogonal Frequency-Division Multiple Access (OFDMA) which divides the existing 802.11 channels into smaller subchannels called Resource Units (RUs). Possible RU sizes are: 26T, 52T, 106T, 242T, 484T and 996T.

Per FCC Guidance, 802.11ax was considered a higher order 802.11 mode when compared to a/b/g/n/ac to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes.

1.2 IEEE 802.11ax RU Target Powers

1.2.1 Maximum 802.11ax RU WLAN Output Power

		SISO (ANT1) /in dBm				SISO (ANT2) /in dBm				MIMO (ALL) /in dBm			
Tones		2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz
		Ch & RU index											
26T	Maximum	14	11	11	11	14	11	11	11	14	11	11	11
	Nominal	13	10	10	10	13	10	10	10	13	10	10	10
52T	Maximum	16	13	13	13	16	13	13	13	16	13	13	13
	Nominal	15	12	12	12	15	12	12	12	15	12	12	12
106T	Maximum	18	15	15	15	18 ch 11: 17.5	15	15	15	18	15	15	15
	Nominal	17	14	14	14	17 ch 11: 16.5	14	14	14	17	14	14	14
242T	Maximum	18 ch 1: 15, ch 11, 13.5	18 ch 36: 15, ch 64: 16	17 ch 38: 13, ch 62: 14, ch 102: 15	16 ch 42: 12, ch 58, 12.5 ch 106: 12.5	18 ch 1: 15, ch: 10: 17 ch 11: 8.5	18 ch 36: 15, ch 64: 16	17 ch 38: 13, ch 62: 14, ch 102: 15	16 ch 42: 12, ch 58, 12.5 ch 106: 12.5	18 ch 1: 13, ch 11, 13.5	18 ch 36: 15, ch 64: 16	17 ch 38: 13, ch 62: 14, ch 102: 15	16 ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal	17 ch 1: 14, ch 11, 12.5	17 ch 36: 14, ch 64: 15	16 ch 38: 12, ch 62: 13, ch 102: 14	15 ch 42: 11, ch 58, 11.5 ch 106: 11.5	17 ch 1: 14, ch: 10: 16 ch 11: 7.5	17 ch 36: 14, ch 64: 15	16 ch 38: 12, ch 62: 13, ch 102: 14	15 ch 42: 11, ch 58, 11.5 ch 106: 11.5	17 ch 1: 12, ch 11, 12.5	17 ch 36: 14, ch 64: 15	16 ch 38: 12, ch 62: 13, ch 102: 14	15 ch 42: 11, ch 58, 11.5 ch 106: 11.5
484T	Maximum			17 ch 38: 13, ch 62: 14, ch 102: 15	16 ch 42: 12, ch 58, 12.5 ch 106: 12.5			17 ch 38: 13, ch 62: 14, ch 102: 15	16 ch 42: 12, ch 58, 12.5 ch 106: 12.5			17 ch 38: 13, ch 62: 14, ch 102: 15	16 ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal			16 ch 38: 12, ch 62: 13, ch 102: 14	15 ch 42: 11, ch 58, 11.5 ch 106: 11.5			16 ch 38: 12, ch 62: 13, ch 102: 14	15 ch 42: 11, ch 58, 11.5 ch 106: 11.5			16 ch 38: 12, ch 62: 13, ch 102: 14	15 ch 42: 11, ch 58, 11.5 ch 106: 11.5
996T	Maximum				16 ch 42: 12, ch 58, 12.5 ch 106: 12.5				16 ch 42: 12, ch 58, 12.5 ch 106: 12.5				16 ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal				15 ch 42: 11, ch 58, 11.5 ch 106: 11.5				15 ch 42: 11, ch 58, 11.5 ch 106: 11.5				15 ch 42: 11, ch 58, 11.5 ch 106: 11.5

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1.2.2 Reduced 802.11ax RU WLAN Output Power

		SISO (ANT1) /in dBm				SISO (ANT2) /in dBm				MIMO (ALL) /in dBm			
Tones		2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz
		Ch & RU index											
26T	Maximum	14	11	11	11	14	11	11	11	14	11	11	11
	Nominal	13	10	10	10	13	10	10	10	13	10	10	10
52T	Maximum	16	13	13	13	16	13	13	13	16	13	13	13
	Nominal	15	12	12	12	15	12	12	12	15	12	12	12
106T	Maximum	17	14	14	14	17	14	14	14	18	14	14	14
	Nominal	16	13	13	13	16	13	13	13	17	13	13	13
242T	Maximum	17	14	14	14	17	14	14	14	18	17	17	16
		ch 1: 15, ch 11, 13.5		ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5	ch 1: 15, ch 11: 8.5		ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5	ch 1: 13, ch 11, 13.5	ch 36: 15, ch 64: 16	ch 38: 13, ch 62: 14, ch 102: 15	ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal	16	13	13	13	16	13	13	13	17	16	16	15
		ch 1: 14, ch 11, 12.5		ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5	ch 1: 14, ch 11: 7.5		ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5	ch 1: 12, ch 11, 12.5	ch 36: 14, ch 64: 15	ch 38: 12, ch 62: 13, ch 102: 14	ch 42: 11, ch 58, 11.5 ch 106: 11.5
484T	Maximum	[redacted]		14	14	[redacted]		14	14	[redacted]		17	16
				ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5			ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5			ch 38: 13, ch 62: 14, ch 102: 15	ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal			13	13			13	13			16	15
				ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5			ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5			ch 38: 12, ch 62: 13, ch 102: 14	ch 42: 11, ch 58, 11.5 ch 106: 11.5
996T	Maximum				14				14				16
					ch 42: 12, ch 58, 12.5 ch 106: 12.5				ch 42: 12, ch 58, 12.5 ch 106: 12.5				ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal				13				13				15
					ch 42: 11, ch 58, 11.5 ch 106: 11.5				ch 42: 11, ch 58, 11.5 ch 106: 11.5				ch 42: 11, ch 58, 11.5 ch 106: 11.5

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1.2.3 Maximum 802.11ax RU WLAN Output Power During Conditions with Simultaneous 2.4 GHz WLAN and 5 GHz WLAN

		SISO (ANT1) /in dBm				SISO (ANT2) /in dBm				MIMO (ALL) /in dBm			
Tones		2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz
		Ch & RU index											
26T	Maximum	14	11	11	11	14	11	11	11	14	11	11	11
	Nominal	13	10	10	10	13	10	10	10	13	10	10	10
52T	Maximum	16	13	13	13	16	13	13	13	16	13	13	13
	Nominal	15	12	12	12	15	12	12	12	15	12	12	12
106T	Maximum	17	14	14	14	17	14	14	14	18	14	14	14
	Nominal	16	13	13	13	16	13	13	13	17	13	13	13
242T	Maximum	17	14	14	14	17	14	14	14	18	17	17	16
		ch 1: 15, ch 11, 13.5		ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5	ch 1: 15, ch 11: 8.5		ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5	ch 1: 13, ch 11, 13.5	ch 36: 15, ch 64: 16	ch 38: 13, ch 62: 14, ch 102: 15	ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal	16	13	13	13	16	13	13	13	17	16	16	15
		ch 1: 14, ch 11, 12.5		ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5	ch 1: 14, ch 11, 7.5		ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5	ch 1: 12, ch 11, 12.5	ch 36: 14, ch 64: 15	ch 38: 12, ch 62: 13, ch 102: 14	ch 42: 11, ch 58, 11.5 ch 106: 11.5
484T	Maximum			14	14			14	14			17	16
				ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5			ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5			ch 38: 13, ch 62: 14, ch 102: 15	ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal			13	13			13	13			16	15
				ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5			ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5			ch 38: 12, ch 62: 13, ch 102: 14	ch 42: 11, ch 58, 11.5 ch 106: 11.5
996T	Maximum				14				14				16
					ch 42: 12, ch 58, 12.5 ch 106: 12.5				ch 42: 12, ch 58, 12.5 ch 106: 12.5				ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal				13				13				15
					ch 42: 11, ch 58, 11.5 ch 106: 11.5				ch 42: 11, ch 58, 11.5 ch 106: 11.5				ch 42: 11, ch 58, 11.5 ch 106: 11.5

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1.2.4 Reduced 802.11ax RU WLAN Output Power During Conditions with Simultaneous 2.4 GHz WLAN and 5 GHz WLAN

		SISO (ANT1) /in dBm				SISO (ANT2) /in dBm				MIMO (ALL) /in dBm			
Tones		2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz
		Ch & RU index											
26T	Maximum	14	11	11	11	14	11	11	11	14	11	11	11
	Nominal	13	10	10	10	13	10	10	10	13	10	10	10
52T	Maximum	14	13	13	13	14	13	13	13	16	13	13	13
	Nominal	13	12	12	12	13	12	12	12	15	12	12	12
106T	Maximum	14	14	14	14	14	14	14	14	17	14	14	14
	Nominal	13	13	13	13	13	13	13	13	16	13	13	13
242T	Maximum	14	14	14	14	14	14	14	14	17	17	17	16
		ch 11, 13.5		ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5	ch 11, 8.5		ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5	ch 1: 13, ch 11, 13.5	ch 36: 15, ch 64: 16	ch 38: 13, ch 62: 14, ch 102: 15	ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal	13	13	13	13	13	13	13	13	16	16	16	15
		ch 11, 12.5		ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5	ch 11, 7.5		ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5	ch 1: 12, ch 11, 12.5	ch 36: 14, ch 64: 15	ch 38: 12, ch 62: 13, ch 102: 14	ch 42: 11, ch 58, 11.5 ch 106: 11.5
484T	Maximum	[redacted]		14	14	[redacted]		14	14	[redacted]		17	16
				ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5			ch 38: 13	ch 42: 12, ch 58, 12.5 ch 106: 12.5			ch 38: 13, ch 62: 14, ch 102: 15	ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal			13	13			13	13			16	15
				ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5			ch 38: 12	ch 42: 11, ch 58, 11.5 ch 106: 11.5			ch 38: 12, ch 62: 13, ch 102: 14	ch 42: 11, ch 58, 11.5 ch 106: 11.5
996T	Maximum	[redacted]			14	[redacted]			14	[redacted]			16
					ch 42: 12, ch 58, 12.5 ch 106: 12.5				ch 42: 12, ch 58, 12.5 ch 106: 12.5				ch 42: 12, ch 58, 12.5 ch 106: 12.5
	Nominal				13				13				15
					ch 42: 11, ch 58, 11.5 ch 106: 11.5				ch 42: 11, ch 58, 11.5 ch 106: 11.5				ch 42: 11, ch 58, 11.5 ch 106: 11.5

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1.3 IEEE 802.11ax Measured Powers

Table 1
Maximum 2.4 GHz 802.11ax RU Output Power – Ant 1

RU Index	Tones	Ch. 1	Ch. 2	Ch. 6	Ch. 10	Ch. 11
		Average	Average	Average	Average	Average
0	26	13.9		13.92		13.72
4	26	13.68		13.86		13.48
8	26	13.84		13.61		13.74
37	52	15.42		15.32		15.73
38	52	15.68		15.56		15.97
40	52	15.83		15.60		15.23
53	106	17.54		17.94	17.94	17.47
54	106	17.92		17.98	17.69	17.42
61	242	12.62	17.71	17.78	17.97	13.05

Table 2
Maximum 2.4 GHz 802.11ax RU Output Power – Ant 2

RU Index	Tones	Ch. 1	Ch. 2	Ch. 6	Ch. 9	Ch. 10	Ch. 11
		Average	Average	Average	Average	Average	Average
0	26	13.86		13.61			13.71
4	26	13.79		13.70			13.97
8	26	13.61		13.76			13.59
37	52	15.44		15.66			15.42
39	52	15.88		15.90			15.84
40	52	15.49		15.70			15.67
53	106	17.51		17.55		17.55	17.20
54	106	17.55		17.90		17.91	17.34
61	242	14.73	17.97	17.15	17.64	16.89	8.35

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Table 3
Maximum 5 GHz 802.11ax RU Output Power – Ant 1

5GHz - 20MHz

RU Index	Tones	UNII 1			UNII 2A			UNII 2C			UNII 3		
		Ch. 36	Ch. 40	Ch. 48	Ch. 52	Ch. 56	Ch. 64	Ch. 100	Ch. 120	Ch. 144	Ch. 149	Ch. 157	U3 - Ch. 165
		Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
0	26	10.93	10.58	10.51	10.53	10.58	10.84	10.87	10.69	10.72	10.44	10.81	10.66
4	26	10.84	10.89	10.99	10.98	10.88	10.70	10.63	10.86	10.86	10.57	10.70	10.45
8	26	10.77	10.74	10.81	10.72	10.76	10.98	10.49	10.59	10.62	10.56	10.43	10.15
37	52	12.72	12.85	12.90	12.74	12.83	12.52	12.53	12.85	12.88	12.40	12.34	12.81
39	52	12.97	12.54	12.68	12.56	12.61	12.68	12.77	12.98	12.51	12.47	12.71	12.46
40	52	12.97	12.39	12.56	12.33	12.46	12.60	12.65	12.84	12.37	12.42	12.46	12.34
53	106	14.68	14.73	14.50	14.78	14.85	14.69	14.72	14.90	14.95	14.43	14.52	14.28
54	106	14.85	14.89	14.57	14.90	14.96	14.63	14.82	14.98	14.95	14.33	14.51	14.29
61	242	14.68	17.46	17.52	17.64	17.65	15.51	17.68	17.85	17.86	17.60	17.67	17.47

5GHz - 40MHz

RU Index	Tones	UNII 1		UNII 2A		UNII 2C			UNII 3	
		Ch. 38	Ch. 46	Ch. 54	Ch. 62	Ch. 102	Ch. 118	Ch. 142	Ch. 151	Ch. 159
		Average	Average	Average	Average	Average	Average	Average	Average	Average
0	26	10.93	10.53	10.99	10.57	10.97	10.59	10.81	10.98	10.52
8	26	10.66	10.75	10.55	10.80	10.66	10.71	10.89	10.57	10.57
17	26	10.48	10.53	10.61	10.72	10.72	10.71	10.83	10.74	10.52
37	52	12.66	12.56	12.82	12.87	12.51	12.66	12.92	12.89	12.46
40	52	12.83	12.64	12.61	12.82	12.57	12.67	12.80	12.78	12.84
44	52	12.84	12.65	12.83	12.97	12.85	12.75	12.88	12.96	12.64
53	106	14.45	14.78	14.48	14.59	14.74	14.80	14.95	14.51	14.59
54	106	14.82	14.47	14.60	14.75	14.94	14.91	14.58	14.72	14.71
56	106	14.47	14.82	14.60	14.68	14.54	14.47	14.62	14.54	14.68
61	242	12.87	16.49	16.67	13.66	14.58	16.84	16.97	16.68	16.55
62	242	12.71	16.48	16.59	13.56	14.74	16.85	16.98	16.84	16.58
65	484	12.61	16.75	16.47	13.69	14.80	16.76	16.92	16.96	16.88

5GHz - 80MHz

RU Index	Tones	UNII 1	UNII 2A	UNII 2C			UNII 3
		Ch. 42	Ch. 58	Ch. 106	Ch. 122	Ch. 138	Ch. 155
		Average	Average	Average	Average	Average	Average
0	26	10.98	10.88	10.54	10.57	10.69	10.45
18	26	10.70	10.60	10.80	10.63	10.75	10.52
36	26	10.67	10.62	10.62	10.57	10.65	10.55
37	52	12.80	12.59	12.50	12.55	12.74	12.70
44	52	12.89	12.91	12.84	12.97	12.96	12.72
52	52	12.51	12.75	12.56	12.60	12.69	12.88
53	106	14.47	14.55	14.49	14.60	14.65	14.71
56	106	14.82	14.99	14.86	14.83	14.99	14.65
60	106	14.59	14.38	14.60	14.62	14.70	14.78
61	242	11.89	12.10	12.06	15.85	15.36	15.51
62	242	11.60	12.30	12.38	15.99	15.68	15.79
64	242	11.98	12.07	12.12	15.94	15.42	15.56
65	484	11.62	12.26	11.96	15.63	15.72	15.65
66	484	11.76	12.38	12.01	15.71	15.85	15.86
67	996	11.63	12.32	11.91	15.50	15.61	15.73

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Table 4
Maximum 5 GHz 802.11ax RU Output Power – Ant 2

5GHz - 20MHz

RU Index	Tones	UNII 1			UNII 2A			UNII 2C			UNII 3		
		Ch. 36	Ch. 40	Ch. 48	Ch. 52	Ch. 56	Ch. 64	Ch. 100	Ch. 120	Ch. 144	Ch. 149	Ch. 157	Ch. 165
		Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
0	26	10.92	10.90	10.70	10.99	10.50	10.74	10.80	10.63	10.83	10.65	10.92	10.78
4	26	10.85	10.80	10.90	10.76	10.90	10.95	10.97	10.87	10.95	10.92	10.96	10.90
8	26	10.67	10.52	10.82	10.46	10.67	10.74	10.71	10.36	10.65	10.51	10.77	10.73
37	52	12.62	12.67	12.88	12.78	12.83	12.96	12.93	12.82	12.90	12.69	12.74	12.72
39	52	12.90	12.84	12.59	12.85	12.53	12.71	12.93	12.82	12.93	12.76	12.99	12.85
40	52	12.69	12.83	12.55	12.73	12.47	12.61	12.84	12.64	12.78	12.60	12.81	12.71
53	106	14.62	14.62	14.76	14.82	14.83	14.99	14.93	14.68	14.69	14.74	14.83	14.65
54	106	14.77	14.71	14.87	14.76	14.96	14.67	14.85	14.51	14.72	14.53	14.68	14.61
61	242	14.74	17.71	17.89	17.50	17.58	15.89	17.59	17.68	17.71	17.70	17.83	17.69

5GHz - 40MHz

RU Index	Tones	UNII 1		UNII 2A		UNII 2C			UNII 3	
		Ch. 38	Ch. 46	Ch. 54	Ch. 62	Ch. 102	Ch. 118	Ch. 142	Ch. 151	Ch. 159
		Average	Average	Average	Average	Average	Average	Average	Average	Average
0	26	10.86	10.92	10.83	10.94	10.83	10.68	10.61	10.60	10.76
8	26	10.56	10.65	10.92	10.95	10.65	10.79	10.98	10.67	10.84
17	26	10.46	10.64	10.78	10.95	10.86	10.86	10.54	10.65	10.86
37	52	12.68	12.87	12.76	12.51	12.72	12.89	12.68	12.91	12.85
41	52	12.55	12.78	12.70	12.71	12.88	12.82	12.58	12.89	12.79
44	52	12.83	12.99	12.68	12.77	12.95	12.78	12.69	12.89	12.89
53	106	14.76	14.53	14.52	14.54	14.50	14.53	14.89	14.83	14.54
55	106	14.88	14.75	14.73	14.73	14.66	14.59	14.90	14.66	14.62
56	106	14.87	14..6	14.52	14.51	14.68	14.38	14.72	14.86	14.44
61	242	12.73	16.73	16.48	13.91	14.72	16.65	16.86	16.97	16.65
62	242	12.67	16.72	16.64	13.81	14.99	16.78	16.81	16.99	16.81
65	484	12.47	16.43	16.81	13.43	14.50	16.43	16.56	16.59	16.94

5GHz - 80MHz

RU Index	Tones	UNII 1	UNII 2A	UNII 2C			UNII 3
		Ch. 42	Ch. 58	Ch. 106	Ch. 122	Ch. 138	Ch. 155
		Average	Average	Average	Average	Average	Average
0	26	10.50	10.80	10.97	10.98	10.61	10.71
18	26	10.60	10.61	10.93	10.86	10.97	10.93
36	26	10.60	10.95	10.78	10.94	10.49	10.96
37	52	12.63	12.42	12.75	12.52	12.58	12.68
44	52	12.64	12.65	12.98	12.74	12.74	12.61
52	52	12.85	12.66	12.68	12.42	12.52	12.72
53	106	14.74	14.58	14.81	14.77	14.72	14.79
57	106	14.74	14.64	14.64	14.86	14.95	14.61
60	106	14.98	14.81	14.79	14.55	14.59	14.76
61	242	11.77	12.13	12.23	15.99	15.88	15.89
63	242	11.50	12.20	12.48	15.57	15.74	15.71
64	242	11.79	12.17	12.45	15.48	15.84	15.49
65	484	11.85	12.15	11.96	15.78	15.94	15.65
66	484	11.95	12.29	12.07	15.96	15.96	15.66
67	996	11.85	12.23	12.14	15.63	15.59	15.92

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