

Appendix H. – Power reduction verification

Per the May 2017 TCBC Workshop notes, demonstration of proper functioning of the power reduction mechanism is required to support the corresponding SAR Configurations.

The verification process was divided into two parts:

- 1). Evaluation of output power levels for individual triggering mechanism
- 2) Evaluation of the triggering distances for proximity-based sensors.

1. Power Reduction Verification for Main Ant#1,#2

The Power verification was performed according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection and output power was monitored. The Power measurements were conformed 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. Step 1 and 2 were repeated for all individual power reduction mechanism and combinations thereof. For the combination cases, one mechanism was switched to a “triggered” state at a time; powers were conformed to be within tolerance after each additional mechanism was activated.

Main Antenna Verification Summary

Mechanism(s)	Mode/Band	Power reduction Mechanism		
		Un-triggered (Max Power)	Triggered (Reduced Power)	Triggered (Reduced Power)
Grip	PCS/EVDO BC1	23.34	20.56	
Grip	WCDMA B2	23.12	19.92	
Grip	WCDMA B4	24.15	20.16	
Grip	LTE Band 2	23.42	20.47	
Grip	LTE Band 4	24.03	20.38	
Grip	LTE Band 7	24.37	17.91	
Grip	LTE Band 13	24.36	21.07	
Grip	LTE Band 14	24.34	21.09	
Grip	LTE Band 25	23.94	20.54	
Grip	LTE Band 30	24.08	18.84	
Grip	LTE Band 38	23.84	20.71	
Grip	LTE Band 41(Class 3)	23.43	20.70	
Grip	LTE Band 41(Class 2)	26.46	20.76	
Grip	LTE Band 66	24.24	20.95	
Grip	Sub 6 Band n2	23.62	17.72	
Grip	Sub 6 Band n25	23.64	17.68	
Grip	Sub 6 Band n41	24.29	20.99	
Grip	Sub 6 Band n66	24.03	20.04	
Hotspot On	PCS/EVDO BC1	23.34	20.54	
Hotspot On	WCDMA B2	23.12	19.92	
Hotspot On	WCDMA B4	24.15	20.19	
Hotspot On	LTE Band 2	23.42	20.48	
Hotspot On	LTE Band 4	24.03	20.39	
Hotspot On	LTE Band 7	24.37	17.86	
Hotspot On	LTE Band 13	24.36	21.20	
Hotspot On	LTE Band 14	24.34	21.27	
Hotspot On	LTE Band 25	23.94	20.86	
Hotspot On	LTE Band 30	24.08	18.69	
Hotspot On	LTE Band 38	23.84	20.68	
Hotspot On	LTE Band 41(Class 3)	23.43	20.69	
Hotspot On	LTE Band 41(Class 2)	26.46	20.65	
Hotspot On	LTE Band 48	24.65	19.71	
Hotspot On	LTE Band 66	24.24	20.94	
Hotspot On	Sub 6 Band n2	23.62	20.56	
Hotspot On	Sub 6 Band n25	23.64	20.43	
Hotspot On	Sub 6 Band n41	24.29	21.05	
Hotspot On	Sub 6 Band n66	24.03	21.21	
Hotspot On	Sub 6 Band n77	24.40	20.55	
Hotspot On, Then Grip	PCS/EVDO BC1	23.34	20.54	20.56
Hotspot On, Then Grip	WCDMA B2	23.12	19.92	19.92
Hotspot On, Then Grip	WCDMA B4	24.15	20.19	20.16
Hotspot On, Then Grip	LTE Band 2	23.42	20.48	20.47
Hotspot On, Then Grip	LTE Band 4	24.03	20.39	20.38
Hotspot On, Then Grip	LTE Band 7	24.37	17.86	17.91
Hotspot On, Then Grip	LTE Band 13	24.36	21.20	21.07
Hotspot On, Then Grip	LTE Band 14	24.34	21.27	21.09
Hotspot On, Then Grip	LTE Band 25	23.94	20.86	20.54
Hotspot On, Then Grip	LTE Band 30	24.08	18.69	18.84
Hotspot On, Then Grip	LTE Band 38	23.84	20.68	20.71

Hotspot On, Then Grip	LTE Band 41(Class 3)	23.43	20.69	20.70
Hotspot On, Then Grip	LTE Band 41(Class 2)	26.46	20.65	20.76
Hotspot On, Then Grip	LTE Band 66	24.24	20.94	20.95
Hotspot On, Then Grip	Sub 6 Band n2	23.62	20.56	17.72
Hotspot On, Then Grip	Sub 6 Band n25	23.64	20.43	17.68
Hotspot On, Then Grip	Sub 6 Band n41	24.29	21.05	20.99
Hotspot On, Then Grip	Sub 6 Band n66	24.03	21.21	20.04
Grip, then Hotspot On	PCS/EVDO BC1	23.34	20.56	20.56
Grip, then Hotspot On	WCDMA B2	23.12	19.92	19.92
Grip, then Hotspot On	WCDMA B4	24.15	20.16	20.16
Grip, then Hotspot On	LTE Band 2	23.42	20.47	20.47
Grip, then Hotspot On	LTE Band 4	24.03	20.38	20.38
Grip, then Hotspot On	LTE Band 7	24.37	17.91	17.91
Grip, then Hotspot On	LTE Band 13	24.36	21.07	21.07
Grip, then Hotspot On	LTE Band 14	24.34	21.09	21.09
Grip, then Hotspot On	LTE Band 25	23.94	20.54	20.54
Grip, then Hotspot On	LTE Band 30	24.08	18.84	18.84
Grip, then Hotspot On	LTE Band 38	23.84	20.71	20.71
Grip, then Hotspot On	LTE Band 41(Class 3)	23.43	20.70	20.70
Grip, then Hotspot On	LTE Band 41(Class 2)	26.46	20.76	20.76
Grip, then Hotspot On	LTE Band 66	24.24	20.95	20.95
Grip, then Hotspot On	Sub 6 Band n2	23.62	17.72	17.72
Grip, then Hotspot On	Sub 6 Band n25	23.64	17.68	17.68
Grip, then Hotspot On	Sub 6 Band n41	24.29	20.99	20.99
Grip, then Hotspot On	Sub 6 Band n66	24.03	20.04	20.04

1.1. Distance Verification Procedure

Procedures for determining proximity sensor triggering distances

(KDB 616217D04v01r02§6.2)

The distance verification procedure was performed according to the following procedure:

1. A base station simulator was used to establish an RF connection and to monitor the power levels. The device being tested was placed below the relevant section of the phantom with the relevant side or edge of the device facing toward the phantom.
2. The device was moved toward and away from the phantom to determine the distance at which the mechanism triggers and the output power is reduced per KDB Publication 616217 D04v01r02 .Each applicable test position was evaluated. The distance were conformed to be the same or larger (more conservative) than the minimum distances provided by the manufacturer.
3. Step 1 and 2 were repeated for the relevant modes, as appropriate
4. Steps1 through 3 were repeated for all distance-based power reduction mechanisms.

For detailed measurement conducted power results, please refer to the Section .11



Proximity Sensor Trigger Distance Assessment KDB 616217 D04§6.2

LEGEND

- Direction of DUT travel for determination of power reduction triggering point
- Direction of DUT travel for determination of full power resumption triggering point

Main Ant#1

Tissue simulating liquid	Triggering Distance			
	Rear		Bottom	
	Moving toward phantom [mm]	Moving away from phantom [mm]	Moving toward phantom [mm]	Moving away from phantom [mm]
700MHz Tissue	11	11	5	4
850MHz Tissue	11	11	5	4
1750MHz Tissue	11	11	5	4
1900MHz Tissue	11	11	5	4

Distance Measurement verification for Proximity sensor

Rear side (Main Ant#1) – EUT Moving toward (trigger) to the Phantom

Mode	Distance to DUT Output power (dBm)									
	16[mm]	15[mm]	14[mm]	13[mm]	12[mm]	11[mm]	10[mm]	9[mm]	8[mm]	7[mm]
PCS RC3/SO55	23.79	23.78	23.81	23.88	23.84	20.54	20.48	20.48	20.51	20.48
PCS EVDO Rev.0	23.80	23.81	23.82	23.88	23.84	20.53	20.52	20.52	20.50	20.51
PCS EVDO Rev.A	23.88	23.79	23.83	23.82	23.81	20.50	20.52	20.51	20.52	20.50
WCDMA B2	23.95	22.98	22.95	23.01	23.02	19.98	20.05	20.03	19.97	19.95
WCDMA B4	24.08	24.09	24.11	24.12	24.19	19.48	19.52	19.51	19.44	19.47
LTE Band 2	23.35	23.33	23.32	23.28	23.29	20.35	20.34	20.38	20.37	20.35
LTE Band 4	23.76	23.77	23.78	23.81	23.80	20.05	20.01	20.06	19.95	19.94
LTE Band 13	24.15	24.18	24.21	24.16	24.22	21.25	21.35	21.29	21.22	21.25
LTE Band 14	24.33	24.32	24.31	24.28	24.25	20.99	21.05	21.04	21.07	21.08
LTE Band 25	23.77	23.78	23.82	23.81	23.83	20.52	20.51	20.48	20.54	20.55
LTE Band 66	24.12	24.15	24.08	24.09	24.18	20.89	20.88	20.91	20.95	20.97
Sub 6 Band n2	23.70	23.81	23.77	23.75	23.79	17.78	17.77	17.71	17.68	17.70
Sub 6 Band n25	23.76	23.77	23.71	23.68	23.66	17.33	17.26	17.22	17.25	17.31
Sub 6 Band n66	24.05	24.06	24.03	23.98	23.99	20.78	20.77	20.89	20.82	20.86

Rear side (Main Ant#1) – EUT Moving away (Release) from the Phantom

Mode	Distance to DUT Output power (dBm)									
	7[mm]	8[mm]	9[mm]	10[mm]	11[mm]	12[mm]	13[mm]	14[mm]	15[mm]	16[mm]
PCS RC3/SO55	20.51	20.54	20.53	20.48	20.47	23.79	23.78	23.77	23.71	23.75
PCS EVDO Rev.0	20.54	20.54	20.51	20.58	20.52	23.82	23.81	23.78	23.79	23.77
PCS EVDO Rev.A	20.56	20.51	20.55	20.57	20.55	23.78	23.81	23.82	23.77	23.81
WCDMA B2	19.92	19.99	20.01	19.98	20.06	22.99	23.01	23.04	22.97	23.06
WCDMA B4	19.45	19.58	19.52	19.48	19.47	24.13	24.15	24.05	24.11	24.13
LTE Band 2	20.28	20.29	20.38	20.31	20.32	23.22	23.35	23.34	23.27	23.28
LTE Band 4	19.94	20.05	20.01	20.08	20.05	23.78	23.81	23.80	23.88	23.81
LTE Band 13	21.27	21.22	21.28	21.21	21.18	24.18	24.22	24.19	24.20	24.15
LTE Band 14	21.08	21.05	21.04	21.03	20.99	24.28	24.31	24.35	24.32	24.35
LTE Band 25	20.55	20.54	20.51	20.52	20.51	23.89	23.84	23.78	23.81	23.82
LTE Band 66	20.94	20.87	20.88	20.84	20.93	24.15	24.14	24.08	24.07	24.12
Sub 6 Band n2	17.56	17.71	17.68	17.69	17.75	23.71	23.77	23.75	23.74	23.78
Sub 6 Band n25	17.25	17.11	17.15	17.14	17.18	23.75	23.76	23.71	23.78	23.81
Sub 6 Band n66	20.83	20.84	20.77	20.74	20.89	23.99	23.95	23.96	24.05	23.99

Based on the most conservative measured triggering distance of 11mm, additional Phablet SAR measurements were required at 10mm from rear side for the above modes

Bottom side (Main Ant#1) – EUT Moving toward (trigger) to the Phantom

Mode	Distance to DUT Output power (dBm)									
	18[mm]	15[mm]	12[mm]	9[mm]	6[mm]	5[mm]	4[mm]	3[mm]	2[mm]	1[mm]
PCS RC3/SO55	23.82	23.77	23.81	23.82	23.81	20.43	20.48	20.51	20.48	20.55
PCS EVDO Rev.0	23.78	23.79	23.82	23.81	23.80	20.45	20.58	20.55	20.54	20.47
PCS EVDO Rev.A	23.77	23.79	23.78	23.81	23.85	20.58	20.65	20.56	20.57	20.61
WCDMA B2	23.03	22.97	22.95	23.01	23.02	20.02	20.08	20.11	20.05	20.08
WCDMA B4	24.05	24.12	24.13	24.08	24.05	19.52	19.54	19.52	19.56	19.57
LTE Band 2	23.37	23.32	23.38	23.37	23.28	20.29	20.32	20.37	20.38	20.28
LTE Band 4	23.80	23.78	23.77	23.81	23.77	19.98	19.99	19.95	19.97	20.01
LTE Band 13	24.35	24.32	24.28	24.22	24.26	21.2	21.25	21.19	21.18	21.20
LTE Band 14	24.35	24.33	24.32	24.28	24.25	21.13	20.99	21.05	21.04	21.09
LTE Band 25	23.78	23.82	23.77	23.76	23.81	20.38	20.49	20.47	20.52	20.51
LTE Band 66	24.12	24.15	24.08	24.11	24.13	20.86	20.77	20.85	20.94	20.77
Sub 6 Band n2	23.71	23.72	23.68	23.66	23.75	17.87	17.89	17.89	17.77	17.75
Sub 6 Band n25	23.59	23.55	23.51	23.58	23.62	17.29	17.25	17.26	17.21	17.18
Sub 6 Band n66	23.96	24.08	24.02	24.05	23.99	20.86	20.76	20.81	20.78	20.77

Bottom side (Main Ant#1) – EUT Moving away (Release) from the Phantom

Mode	Distance to DUT Output power (dBm)									
	1[mm]	2[mm]	3[mm]	4[mm]	5[mm]	6[mm]	9[mm]	12[mm]	15[mm]	18[mm]
PCS RC3/SO55	20.56	20.48	20.52	20.48	23.78	23.75	23.77	23.81	23.82	23.85
PCS EVDO Rev.0	20.57	20.47	20.51	20.52	23.75	23.81	23.82	23.79	23.83	23.77
PCS EVDO Rev.A	20.62	20.51	20.48	20.47	23.77	23.81	23.82	23.81	23.85	23.75
WCDMA B2	20.07	19.98	19.97	20.05	22.98	23.09	23.01	22.97	22.98	23.00
WCDMA B4	19.51	19.48	19.42	19.51	24.08	24.15	24.11	24.03	24.09	24.18
LTE Band 2	20.38	20.28	20.37	20.31	23.38	23.35	23.31	23.32	23.28	23.29
LTE Band 4	20.05	20.03	20.01	20.00	23.82	23.81	23.79	23.78	23.77	23.82
LTE Band 13	21.11	21.10	21.08	21.09	24.18	24.15	24.22	24.23	24.22	24.12
LTE Band 14	21.11	21.01	21.05	21.10	24.29	24.31	24.33	24.35	24.28	24.26
LTE Band 25	20.46	20.47	20.48	20.52	23.81	23.88	23.79	23.82	23.77	23.79
LTE Band 66	20.75	20.78	20.77	20.69	24.15	24.12	24.18	24.11	24.15	24.08
Sub 6 Band n2	17.76	17.75	17.81	17.88	23.75	23.77	23.74	23.71	23.68	23.69
Sub 6 Band n25	17.15	17.17	17.11	17.20	23.68	23.66	23.64	23.68	23.66	23.71
Sub 6 Band n66	20.68	20.66	20.69	20.67	23.99	24.08	24.05	24.02	24.01	24.05

Based on the most conservative measured triggering distance of 4mm, additional Phablet SAR measurements were required at 3mm from bottom side for the above modes

Main Ant#2

Tissue simulating liquid	Triggering Distance			
	Rear		Left	
	Moving toward phantom [mm]	Moving away from phantom [mm]	Moving toward phantom [mm]	Moving away from phantom [mm]
2300MHz Tissue	13	13	8	7
2600 MHz Tissue	13	13	8	7

Rear side (Main Ant#2) – EUT Moving toward (trigger) to the Phantom

Mode	Distance to DUT Output power (dBm)									
	18[mm]	17[mm]	16[mm]	15[mm]	14[mm]	13[mm]	12[mm]	11[mm]	10[mm]	9[mm]
LTE Band 7	24.05	24.22	24.15	24.18	24.17	17.82	17.89	17.86	17.78	17.81
LTE Band 30	24.05	24.01	23.99	23.98	23.95	18.72	18.69	18.67	18.65	18.61
LTE Band 38	23.56	23.52	23.51	23.50	23.48	18.73	18.77	18.82	18.81	18.72
LTE Band 41(Class 3)	23.42	23.35	23.32	23.36	23.37	20.46	20.43	20.42	20.41	20.48
LTE Band 41(Class 2)	26.38	26.32	26.33	26.31	26.29	20.31	20.35	20.33	20.31	20.29
Sub 6 Band n41	24.25	24.13	24.15	24.28	24.21	21.8	21.82	21.77	21.78	21.81

Rear side (Main Ant#2) – EUT Moving away (Release) from the Phantom

Mode	Distance to DUT Output power (dBm)									
	9[mm]	10[mm]	11[mm]	12[mm]	13[mm]	14[mm]	15[mm]	16[mm]	17[mm]	18[mm]
LTE Band 7	17.82	17.81	17.83	17.79	17.77	24.15	24.11	24.05	24.21	24.19
LTE Band 30	18.62	18.59	18.55	18.69	18.64	24.05	24.08	24.01	24.03	23.99
LTE Band 38	18.77	18.72	18.81	18.82	18.83	23.52	23.51	23.48	23.49	23.51
LTE Band 41(Class 3)	20.41	20.38	20.31	20.35	20.34	23.48	23.47	23.36	23.35	23.36
LTE Band 41(Class 2)	20.36	20.39	20.31	20.28	20.28	26.44	26.41	26.38	26.25	26.29
Sub 6 Band n41	21.79	21.77	21.81	21.88	21.85	24.25	24.21	24.22	24.18	24.19

Based on the most conservative measured triggering distance of 13mm, additional Phablet SAR measurements were required at 12mm from rear side for the above modes

Left side(Main Ant#2) – EUT Moving toward (trigger) to the Phantom

Mode	Distance to DUT Output power (dBm)									
	13[mm]	12[mm]	11[mm]	10[mm]	9[mm]	8[mm]	7[mm]	6[mm]	5[mm]	4[mm]
LTE Band 7	24.12	24.13	24.08	24.13	24.11	17.79	17.92	17.86	17.77	17.79
LTE Band 30	24.06	24.03	24.02	23.98	23.99	18.66	18.62	18.56	18.62	18.63
LTE Band 38	23.58	23.51	23.50	23.49	23.48	18.76	18.83	18.75	18.77	18.76
LTE Band 41(Class 3)	23.32	23.36	23.41	23.48	23.44	20.41	20.23	20.32	20.35	20.42
LTE Band 41(Class 2)	26.45	26.43	26.41	26.33	26.35	20.33	20.45	20.39	20.33	20.34
Sub 6 Band n41	24.29	24.23	24.21	24.22	24.25	21.74	21.71	21.69	21.78	21.75

Left side(Main Ant#2) – EUT Moving away (Release) from the Phantom

Mode	Distance to DUT Output power (dBm)									
	3[mm]	4[mm]	5[mm]	6[mm]	7[mm]	8[mm]	9[mm]	10[mm]	11[mm]	12[mm]
LTE Band 7	17.89	17.86	17.78	17.85	17.87	24.03	24.10	24.09	24.08	24.07
LTE Band 30	18.66	18.61	18.57	18.55	18.54	24.05	24.03	23.99	23.98	24.06
LTE Band 38	18.67	18.72	18.77	18.75	18.77	23.51	23.48	23.44	23.41	23.42
LTE Band 41(Class 3)	20.47	20.48	20.36	20.39	20.32	23.31	23.39	23.35	23.42	23.46
LTE Band 41(Class 2)	20.35	20.36	20.33	20.34	20.32	26.47	26.52	26.44	26.38	26.39
Sub 6 Band n41	21.68	21.72	21.77	21.75	21.74	24.08	24.21	24.22	24.05	24.15

Based on the most conservative measured triggering distance of 7mm, additional Phablet SAR measurements were required at 6mm from left side for the above modes

1.2 Proximity Sensor Coverage for SAR measurements

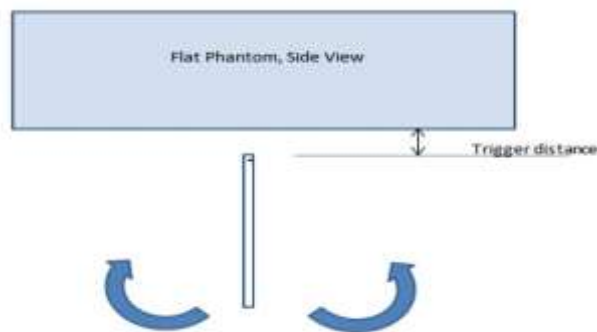
(KDB 616217 D04v01r02§6.3)

As there is no spatial offset between the antenna and the proximity sensor element, proximity sensor coverage did not need to be assessed.

1.3 Proximity Sensor Tilt Angle Assessment

(KDB 616217 D04v01r02 §6.4)

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with Bottom side parallel to the base of the flat phantom for each band. The EUT was rotated about Bottom side for angles up to $\pm 45^\circ$. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to $\pm 45^\circ$.



Proximity sensor tilt angle assessment (Bottom For MainAnt#1, Left side for Main Ant#2) KDB 616217 §6.4

Summary of Tablet Tilt Angle influence to Proximity Sensor Triggering (Bottom side for Main Ant#1)

Tissue	Minimum distance At which power reduction was maintained over- 45°	Power reduction status										
		-45°	-40°	-30°	-20°	-10°	0°	10°	20°	30°	40°	45°
700 MHz Tissue	4mm	On	On	On	On	On	On	On	On	On	On	On
850 MHz Tissue	4mm	On	On	On	On	On	On	On	On	On	On	On
1750 MHz Tissue	4mm	On	On	On	On	On	On	On	On	On	On	On
1900 MHz Tissue	4mm	On	On	On	On	On	On	On	On	On	On	On

Summary of Tablet Tilt Angle influence to Proximity Sensor Triggering (Left side for Main Ant#2)

Tissue	Minimum distance At which power reduction was maintained over- 45°	Power reduction status										
		-45°	-40°	-30°	-20°	-10°	0°	10°	20°	30°	40°	45°
2300 MHz Tissue	7mm	On	On	On	On	On	On	On	On	On	On	On
2600 MHz Tissue	7mm	On	On	On	On	On	On	On	On	On	On	On

1.4 Resulting test positions for Phablet SAR measurements

Wireless technologies	Position	§6.2 Triggering Distance [mm]	§6.3 Coverage	§6.4 Tilt Angle	Worst case distance for Phablet SAR [mm]
WWAN (CDMA BC1 /WCDMA B2/B4 /LTEB2/B4/B7/B13/B14 /B25/B30/B38/B41(Class3) /B41(Class2)/B66 /SUB6 n2/n25/n41 n66)	Rear (Main Ant #2)	13	N/A	N/A	12
	Left (Main Ant #2)	7	N/A	N/A	6
	Rear (Main Ant #1)	11	N/A	N/A	10
	Bottom (Main Ant #1)	4	N/A	N/A	3

Note:FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in phablet use conditions

2. Power reduction Verification for RCV-ON

This device uses a power reduction mechanism for SAR compliance for operations during voice or VoIP held to ear scenarios.

When a user makes or receives a voice call or VOIP call for Main Ant#2 and Sub Ant#4 the audio of the call is sent through the Receiver at the top of the device will trigger the Power reduction for Main Ant#2 and Sub Ant#4 (i.e. reducing output power for Head SAR compliance)

Detailed descriptions of the power reduction mechanism are included in the Main operational description document

Main Ant#2

Condition For Power reduction	Wireless Technologies	Conducted Power[dBm]	
		Un-Triggered (Max Power)	Triggered (Reduced Power)
RCV-on	LTE 7	24.37	21.21
RCV-on	LTE 30	24.08	20.88
RCV-on	LTE 38	23.84	20.84
RCV-on	LTE 41 PC3	23.43	20.65
RCV-on	LTE 41 PC2	26.46	20.62
RCV-on	NR n41 PC3	24.21	21.88

Sub Ant#4

Condition For Power reduction	Wireless Technologies	Conducted Power[dBm]	
		Un-Triggered (Max Power)	Triggered (Reduced Power)
RCV-on	LTE 48	23.74	17.74
RCV-on	NR n77	24.40	19.35

3. Power reduction Verification for WLAN Ant

This device uses a power reduction mechanism for SAR compliance for WLAN operations during voice or VoIP held to ear scenarios.

When a user makes or receives a WLAN voice or WLAN VOIP call for WLAN Ant the audio of the call is sent through the Receiver at the top of the device will trigger the Power reduction for WLAN Ant (i.e. reducing output power for Head SAR compliance)

Detailed descriptions of the power reduction mechanism are included in the Main operational description document

Power Measurement Verification for WLAN

Condition For Power reduction	Wireless Technologies	Conducted Power[dBm]	
		Un-Triggered (Max Power)	Triggered (Reduced Power)
RCV-on	2.4GHz 802.11b	19.06	14.81
RCV-on	2.4GHz 802.11g	18.22	14.96
RCV-on	2.4GHz 802.11n	18.04	14.86
RCV-on	5GHz 802.11a	17.65	13.09
RCV-on	5GHz 802.11n 20MHz	17.61	12.77
RCV-on	5GHz 802.11n 40MHz	17.37	13.43
RCV-on	5GHz 802.11ac 20MHz	17.64	12.75
RCV-on	5GHz 802.11ac 40MHz	17.31	13.45
RCV-on	5GHz 802.11ac 80MHz	13.62	13.61

Appendix I. – DL CA Power Measurement

1. LTE Down-link Carrier Aggregation Conducted Powers

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by test 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.

Downlink Carrier aggregation:

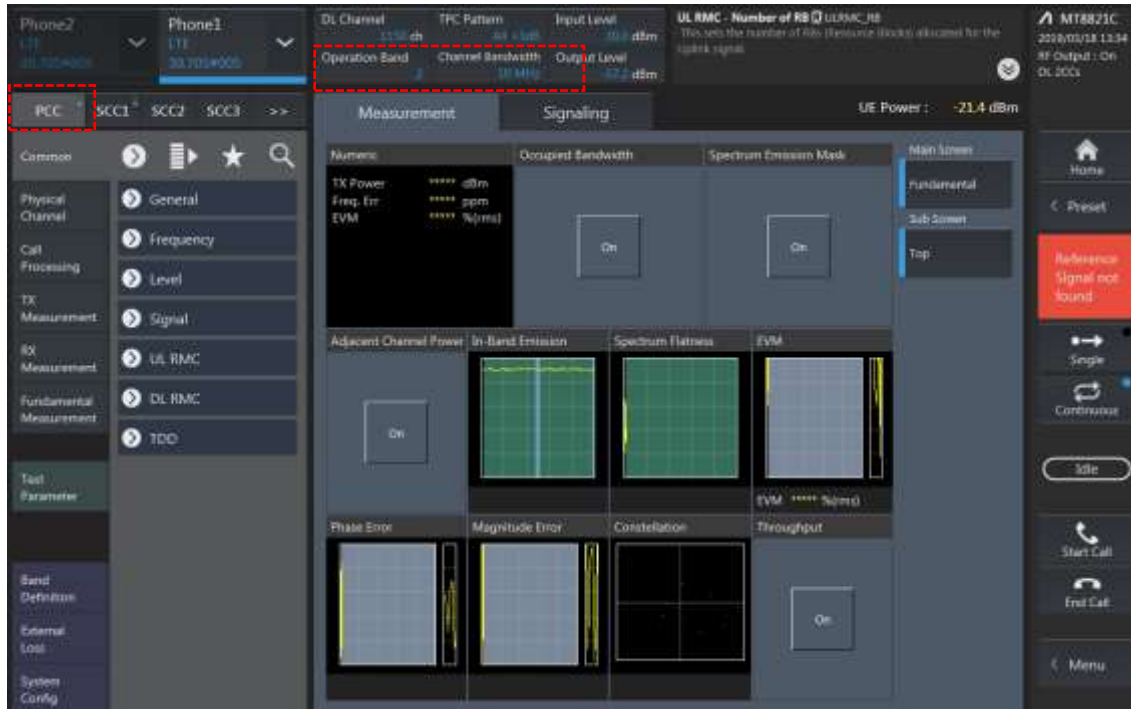
1. This device only supports downlink carrier aggregation. For every supported combination of downlink carrier aggregation, power measurements were performed with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.
2. All control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
3. Per FCC KDB publication 941225 D05A v01r02, Section C)3)b)ii), PCC uplink channel was selected at downlink carrier aggregation combinations. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
4. For continuous intra-band carrier aggregation, the downlink channel spacing between the component carriers was set to multiple of 300kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521.
5. For non-continuous intra-band carrier aggregation, 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.
6. All selected downlink channels remained fully within the downlink transmission band of the respective component carrier.



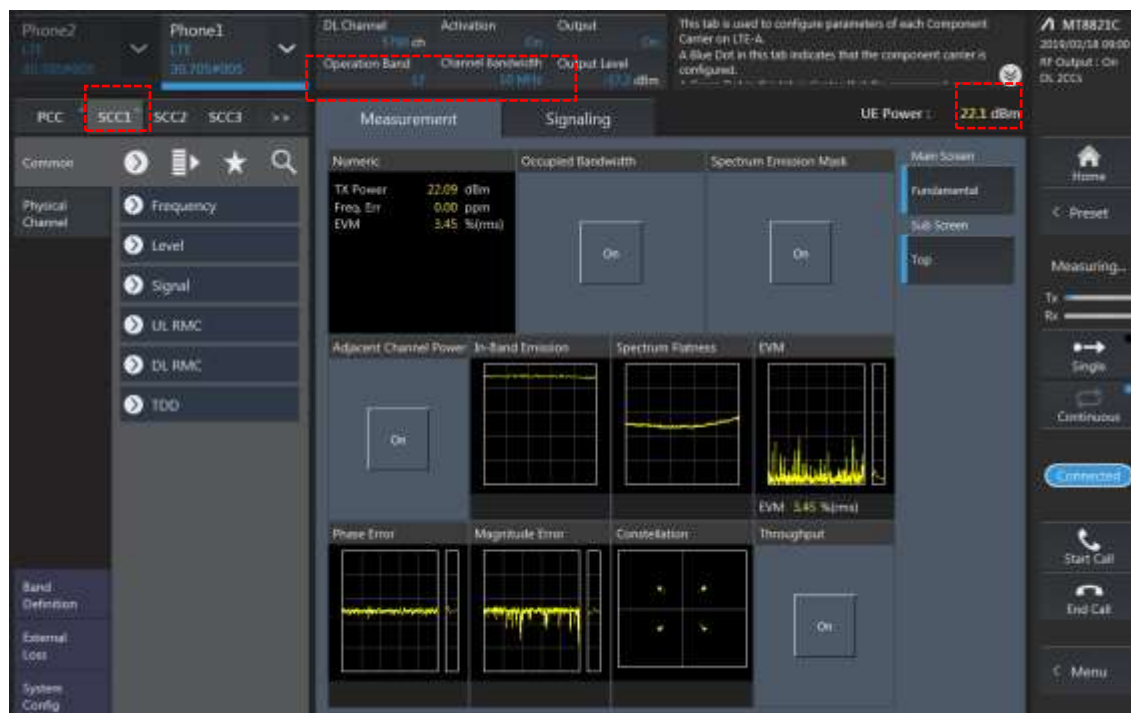
Power Measurement setup

LTE Down Link 2CA Call Setup

PCC Setting : Channel/ RB/ BW/ Modulation



SCC Setting : Channel/ RB/ BW/ Modulation and call Connection

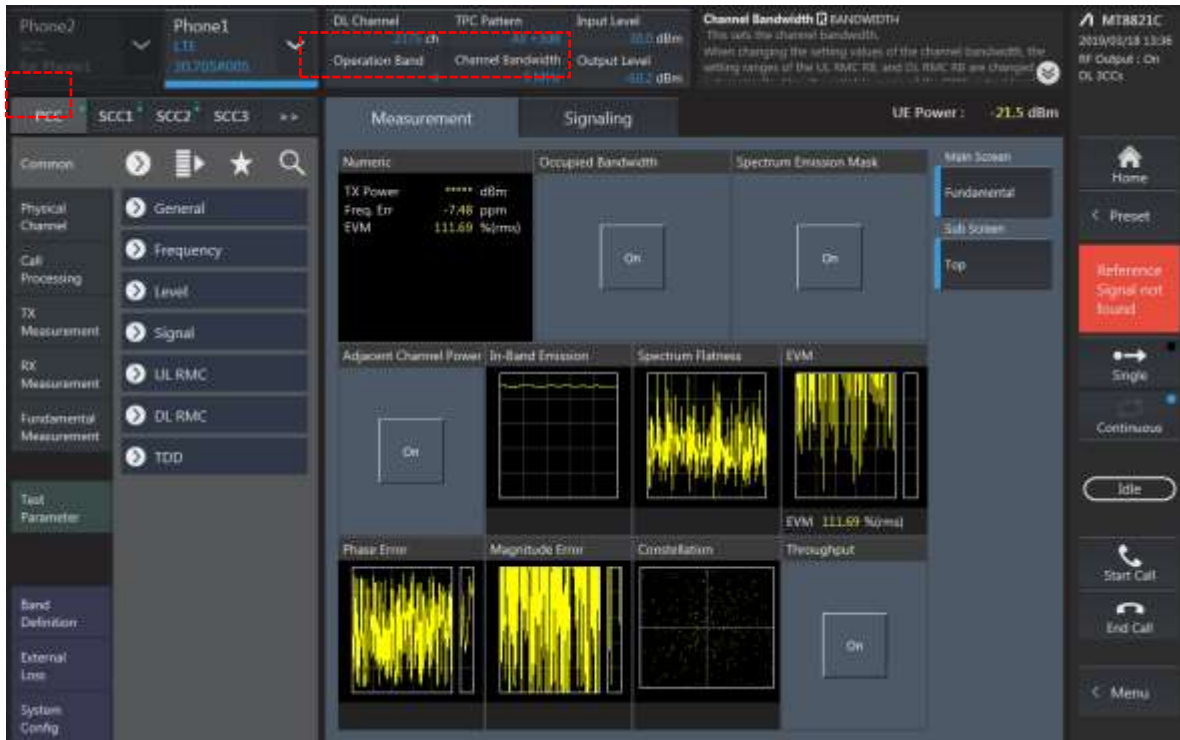


2CA Downlink Carrier aggregation Maximum conducted Powers

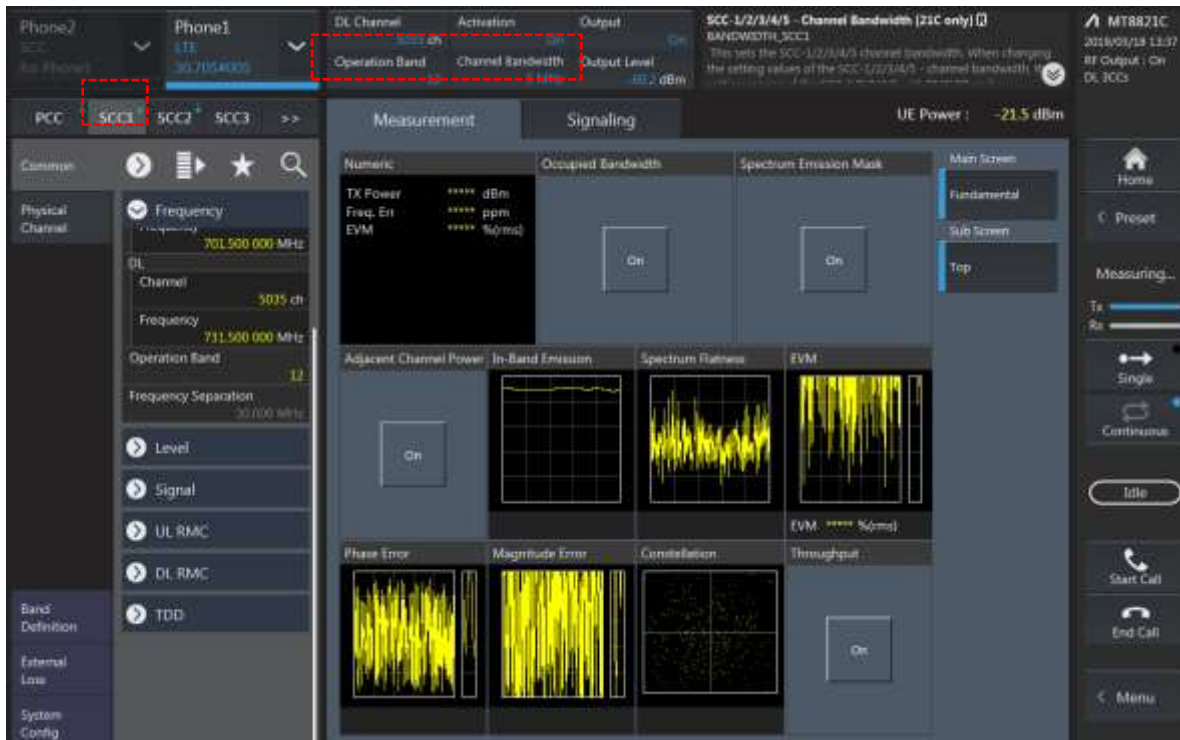
Combination	PCC									SCC				Tx Power		Deviation
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA Enabled(dBm)	
5A-25A	5	5	20425	826.5	2425	871.5	QPSK	1	0	25	20	8365	1962.5	24.39	24.54	0.15
5A-38A	5	5	20425	826.5	2425	871.5	QPSK	1	0	38	20	38000	2595	24.39	24.52	0.13
12A-25A	12	10	23095	707.5	5095	737.5	QPSK	1	0	25	20	8365	1962.5	24.39	24.45	0.06
25A-5A	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	5	10	2525	881.5	24.07	23.82	-0.25
25A-12A	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	12	10	5095	737.5	24.07	23.87	-0.20
38C	38	15	37825	2577.5	37825	2577.5	QPSK	1	0	38	15	37975	2592.5	24.06	23.75	-0.31

LTE Down Link 3CA Call Setup

1) PCC Setting: Channel /RB/BW/Modulation



2) SCC1 Setting : Channel /RB/BW/Modulation



3) SCC2 Setting (Channel /RB/BW/Modulation)and call Connection

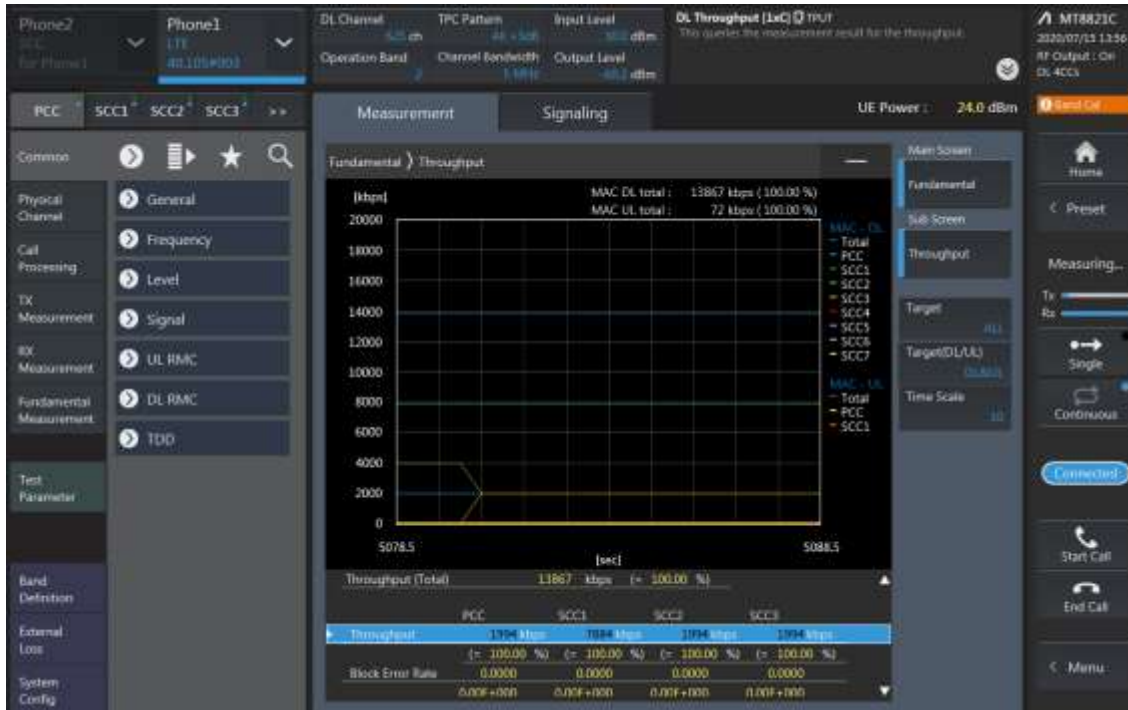


3CA Downlink Carrier aggregation Maximum conducted Powers

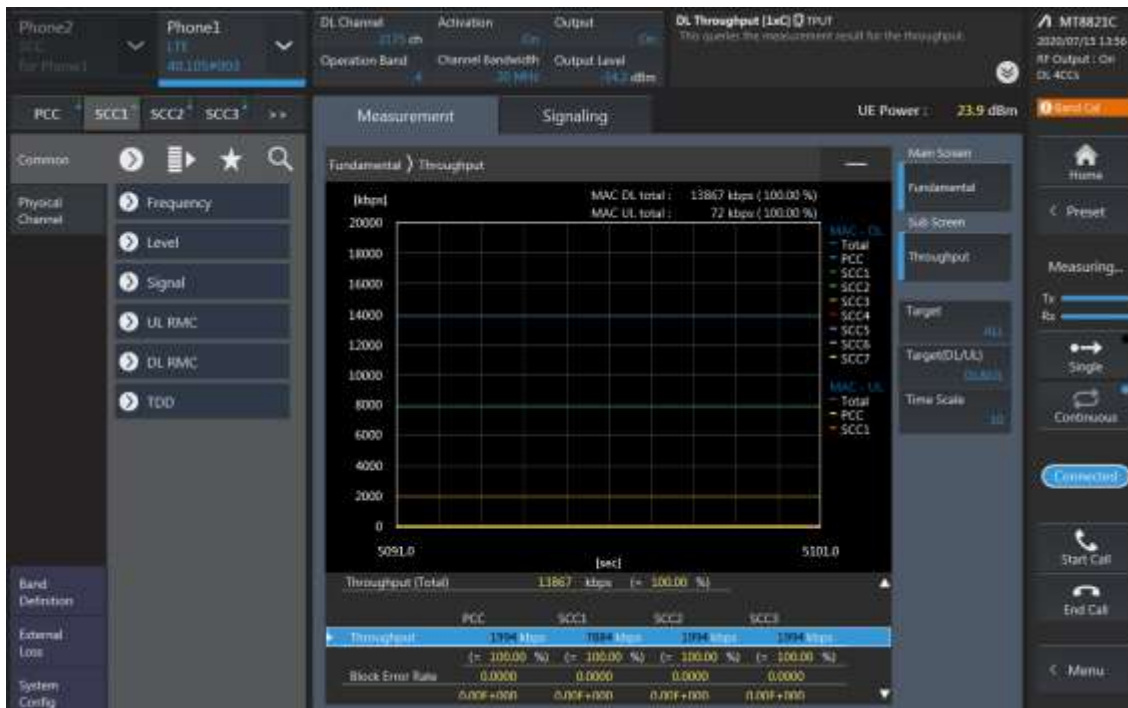
Combination	PCC									SCC				SCC				Tx Power		Deviation
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA Enabled(dBm)	
2A-4A-13A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2175	2132.5	13	10	5230	751	23.52	23.53	0.01
2A-5A-7A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	7	20	3100	2655	23.52	23.33	-0.19
4A-2A-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	900	1960	13	10	5230	751	23.92	23.69	-0.23
4A-4A-7A(1)	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	7	20	3100	2655	23.92	22.75	-1.17
4A-4A-7A(0)	4	10	20350	1750	2350	2150	QPSK	1	49	4	10	2000	2115	7	20	3100	2655	23.7	23.08	-0.62
4A-4A-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	13	10	5230	751	23.92	23.73	-0.19
4A-4A-29A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	29	10	9715	722.5	23.92	23.72	-0.20
4A-4A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	71	20	68761	634.5	23.92	23.75	-0.17
5A-2A-7A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	7	20	3100	2655	24.39	24.59	0.20
5A-7A-7A	5	5	20425	826.5	2425	871.5	QPSK	1	0	7	20	3100	2655	7	20	3350	2680	24.39	24.52	0.13
5A-7C	5	5	20425	826.5	2425	871.5	QPSK	1	0	7	20	3100	2655	7	20	3298	2674.8	24.39	24.57	0.18
7A-2A-5A	7	10	21400	2565	3400	2685	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	24.48	23.91	-0.57
7A-2A-13A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	13	10	5230	751	24.51	24.56	0.05
7A-4A-4A(0)	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	4	10	2175	2132.5	4	10	2350	2150	24.51	24.34	-0.17
7A-4A-4A(1)	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	4	20	2175	2132.5	4	10	2350	2150	24.51	24.44	-0.07
7A-7A-5A	7	10	21400	2565	3400	2685	QPSK	1	24	7	20	2850	2630	5	10	2525	881.5	24.48	23.94	-0.54
7C-5A	7	10	21400	2565	3400	2685	QPSK	1	24	7	20	3256	2670.6	5	10	2525	881.5	24.48	24.00	-0.48
7A-7A-29A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	29	10	9715	722.5	24.48	23.82	-0.66
13A-2A-4A	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	24.36	24.33	-0.03
13A-4A-4A	13	10	23230	782	5230	751	QPSK	1	0	4	20	2175	2132.5	4	10	2350	2150	24.36	24.35	-0.01
13A-7A-7A	13	10	23230	782	5230	751	QPSK	1	0	7	20	3100	2655	7	20	3350	2680	24.36	24.30	-0.06
25A-25A-26A	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	26	5	8865	876.5	24.07	23.92	-0.15
26A-25A-25A	26	5	26715	816.5	8715	861.5	QPSK	1	0	25	20	8365	1962.5	25	20	8590	1985	24.57	24.55	-0.02
66A-66C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66786	2145	66	20	66588	2125.2	24.32	24.03	-0.29
66C-66A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	66	20	66536	2120	24.32	24.02	-0.30
71A-4A-4A	71	10	133172	668	68636	622	QPSK	1	0	4	20	2175	2132.5	4	10	2350	2150	24.47	24.39	-0.08
71A-48A-48A	71	10	133172	668	68636	622	QPSK	1	0	48	20	56207	3646.7	48	20	56640	3690	24.47	24.33	-0.14
71A-48C	71	10	133172	668	68636	622	QPSK	1	0	48	20	56207	3646.7	48	20	56405	3666.5	24.47	24.41	-0.06

LTE Down Link 4CA Call Setup

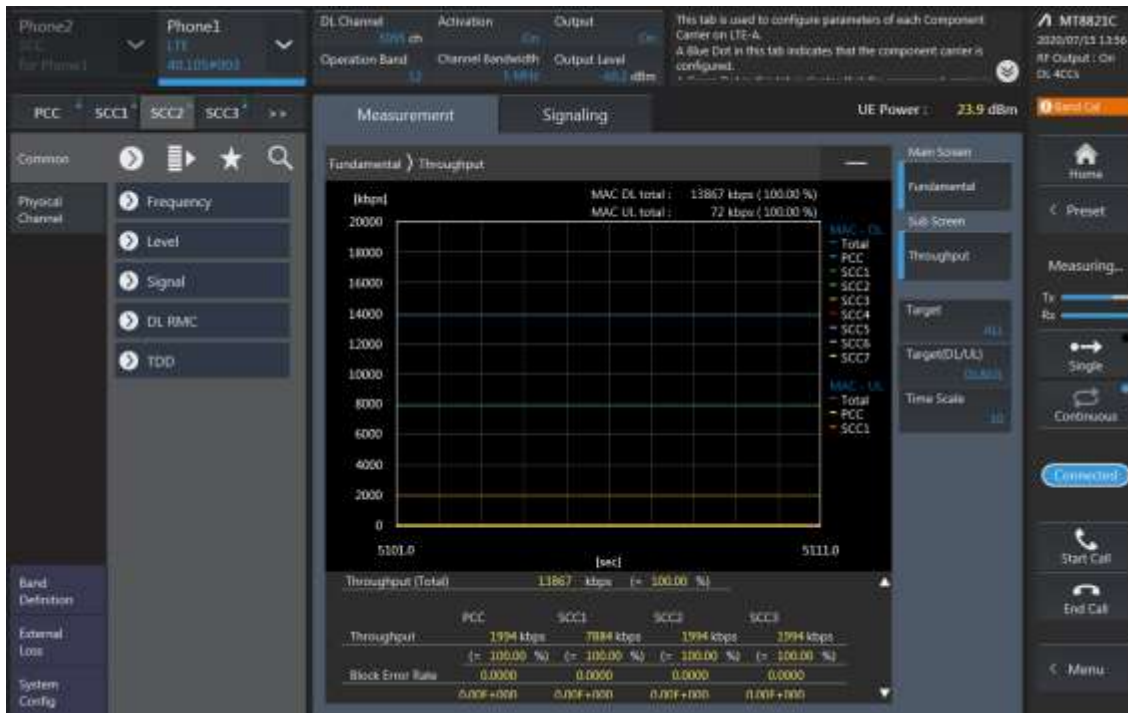
PCC Setting: Channel /RB/BW/Modulation



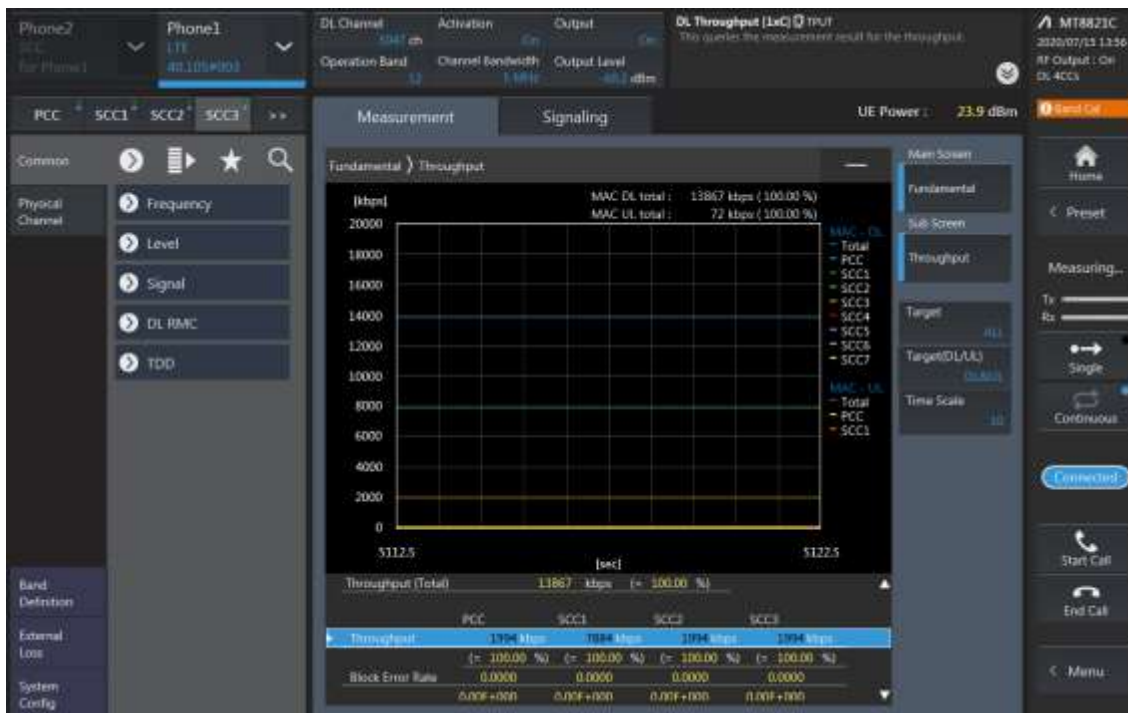
SCC1 Setting (Channel /RB/BW/Modulation)and call Connection



SCC2 Setting (Channel /RB/BW/Modulation)and call Connection



SCC3 Setting (Channel /RB/BW/Modulation)and call Connection



4CA Downlink Carrier aggregation Maximum conducted Powers

Combination	Band	BW	PCC						Modulation	RB	offset	SCC				SCC				SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	PCC DL Channel	PCC DL Frequency				Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA Enable (dBm)	
2A-2A-4A-4A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2175	2132.5	4	10	2350	2150	23.52	23.71	0.19		
2A-2A-4A-5A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	5	10	2525	881.5	23.52	23.71	0.19		
2A-2A-4A-12A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	12	10	5095	737.5	23.52	23.7	0.18		
2A-2A-4A-71A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	71	10	68636	622	23.52	23.69	0.17		
2A-2A-5A-30A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	23.52	23.66	0.14		
2A-2A-5A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	5	10	2525	881.5	66	20	67036	2170	23.52	23.71	0.19		
2A-2A-7A-12A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	7	20	3350	2680	12	10	5095	737.5	23.52	23.46	-0.06		
2A-2A-7A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	7	20	3350	2680	66	20	67036	2170	23.52	23.41	-0.11		
2A-2A-12B	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	12	5	5035	731.5	12	10	5107	738.7	23.52	23.67	0.15		
2A-2A-12A-30A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	23.52	23.67	0.15		
2A-2A-12A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	12	10	5095	737.5	66	20	67036	2170	23.52	23.63	0.11		
2A-2A-13A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	13	10	5230	751	66	20	67036	2170	23.52	23.64	0.12		
2A-2A-14A-30A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	14	10	5330	763	30	10	9820	2355	23.52	23.71	0.19		
2A-2A-14A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	14	10	5330	763	66	20	67036	2170	23.52	23.6	0.08		
2A-2A-29A-30A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	29	10	9715	722.5	30	10	9820	2355	23.52	23.64	0.12		
2A-2A-30A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	30	10	9820	2355	66	20	67036	2170	23.52	23.63	0.11		
2A-2A-66A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66536	2120	66	20	67036	2170	23.52	23.7	0.18		
2A-2A-66B	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	66	15	66786	2145	66	5	66879	2154.3	23.52	23.74	0.22		
2A-2A-66C	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66786	2145	66	20	66984	2164.8	23.52	23.69	0.17		
2C-66A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	742	1944.2	66	20	66536	2120	66	20	67036	2170	23.52	23.62	0.1		
2A-2A-66A-71A	2	5	18625	18525	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66536	2120	71	10	68636	622	23.52	23.71	0.19		
2A-4A-4A-5A	2	5	18625	18525	625	1932.5	QPSK	1	12	4	20	2175	2132.5	4	10	2350	2150	5	10	2525	881.5	23.52	23.69	0.17		
2A-4A-4A-12A	2	5	18625	18525	625	1932.5	QPSK	1	12	4	20	2175	2132.5	4	10	2350	2150	12	10	5095	737.5	23.52	23.67	0.15		
2A-4A-5B	2	5	18625	18525	625	1932.5	QPSK	1	12	4	20	2300	2145	5	10	2476	878.6	5	10	2575	886.5	23.52	23.69	0.17		
2A-4A-5A-30A	2	5	18625	18525	625	1932.5	QPSK	1	12	4	20	2300	2145	5	10	2525	881.5	30	10	9820	2355	23.52	23.76	0.24		
2A-4A-7A-7A	2	5	18625	18525	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	7	20	2850	2630	23.52	22.94	-0.58		
2A-4A-7C	2	5	18625	18525	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	7	20	3152	2660.2	23.52	23.5	-0.02		
2A-4A-7A-12A	2	5	18625	18525	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	12	10	5095	737.5	23.52	23.51	-0.01		
2A-4A-12B	2	5	18625	18525	625	1932.5	QPSK	1	12	4	20	2300	2145	12	5	5035	731.5	12	10	5107	738.7	23.52	23.66	0.14		
2A-4A-12A-30A	2	5	18625	18525	625	1932.5	QPSK	1	12	4	20	2300	2145	12	10	5095	737.5	30	10	9820	2355	23.52	23.71	0.19		
2A-4A-29A-30A	2	5	18625	18525	625	1932.5	QPSK	1	12	4	20	2300	2145	29	10	9715	722.5	30	10	9820	2355	23.52	23.69	0.17		
2A-5B-30A	2	5	18625	18525	625	1932.5	QPSK	1	12	5	10	2476	878.6	5	10	2575	886.5	30	10	9820	2355	23.52	23.7	0.18		
2A-5A-5A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	5	10	2450	874	5	10	2600	889	66	20	66536	2120	23.52	23.7	0.18		
2A-5B-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	5	10	2476	878.6	5	10	2575	886.5	66	20	66536	2120	23.52	23.69	0.17		
2A-5A-30A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	5	10	2525	881.5	30	10	9820	2355	66	20	67036	2170	23.52	23.63	0.11		
2A-5A-48A-48A	2	5	18625	18525	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	48	20	56640	5690	23.52	23.65	0.13		
2A-5A-48C	2	5	18625	18525	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	48	20	55538	3579.8	23.52	23.65	0.13		
2A-5A-48A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	66	20	66536	2120	23.52	23.7	0.18		
2A-5A-66A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	5	10	2525	881.5	66	20	66536	2120	66	20	67036	2170	23.52	23.6	0.08		
2A-5A-66B	2	5	18625	18525	625	1932.5	QPSK	1	12	5	10	2525	881.5	66	15	66786	2145	66	5	66879	2154.3	23.52	23.65	0.13		
2A-5A-66C	2	5	18625	18525	625	1932.5	QPSK	1	12	5	10	2525	881.5	66	20	66786	2145	66	20	66984	2164.8	23.52	23.63	0.11		
2A-7A-7A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	7	20	3350	2680	7	20	3350	2680	66	20	66536	2120	23.52	23.17	-0.35		
2A-7C-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	7	20	3350	2680	7	20	3152	2660.2	66	20	66536	2120	23.52	23.42	-0.1		
2A-7A-12B	2	5	18625	18525	625	1932.5	QPSK	1	12	7	20	3350	2680	12	5	5035	731.5	12	10	5107	738.7	23.52	23.34	-0.18		
2A-7A-12A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	7	20	3350	2680	12	10	5095	737.5	66	20	67036	2170	23.52	23.46	-0.06		
2A-7A-29A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	7	20	3350	2680	29	10	9715	722.5	66	20	66536	2120	23.52	23.34	-0.18		
2A-7A-66A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	7	20	3350	2680	66	20	66536	2120	66	20	67036	2170	23.52	23.44	-0.08		
2A-12B-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	12	5	5035	731.5	12	10	5107	738.7	66	20	66536	2120	23.52	23.73	0.21		
2A-12A-30A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	67036	2170	23.52	23.7	0.18		
2A-12A-66A-66A	2	5	18625	18525	625	1932.5	QPSK	1	12	12	10	5095	737.5	66	20	66536	2120	66	20	67036	2170	23.52	23.7	0.18		
2A-12A-66C	2	5	18625																							

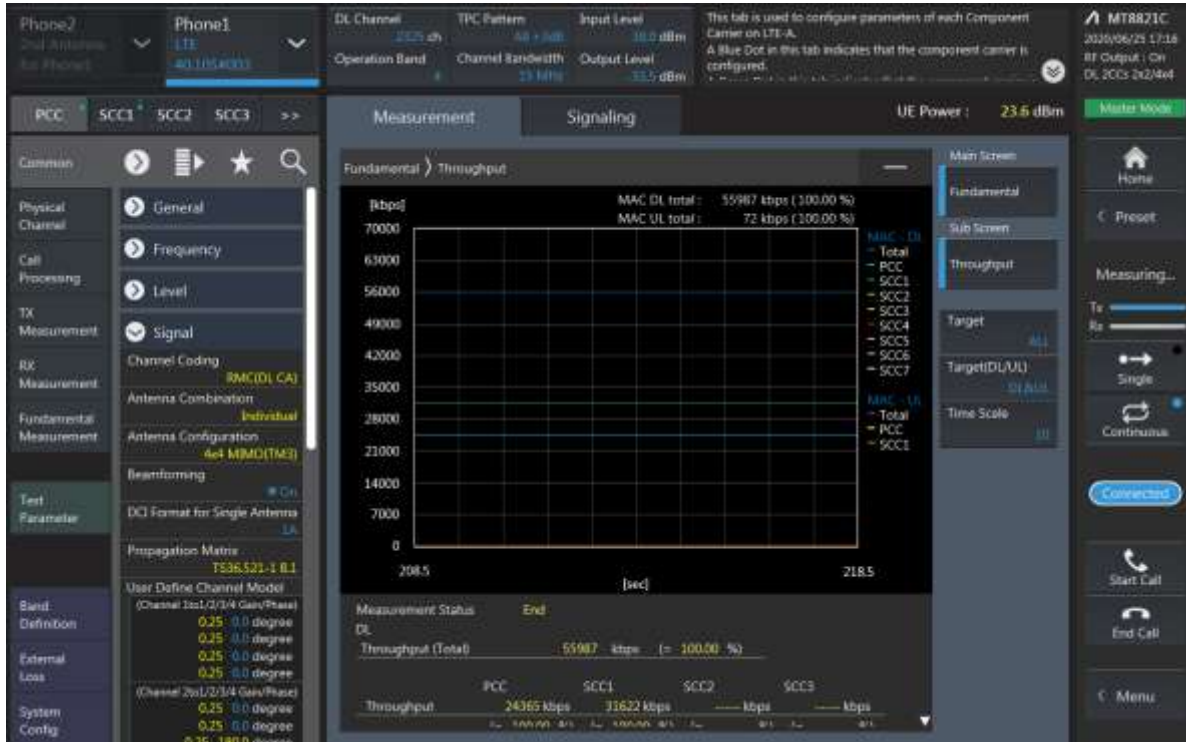
Combination	Band	BW	PCC					Modulation	RB	offset	SCC				SCC				SCC				SCC				L1E-Single Carrier Tx Power (dBm)	L1E-Tx Power with DL CA (dBm)	Tx Power	Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Band				BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency					
4A-2A-2A-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	23.92	23.64				-0.28			
4A-2A-2A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	12	10	5095	737.5	23.92	23.59				-0.33			
4A-2A-2A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	71	10	66636	622	23.92	23.74				-0.18			
4A-2A-5B	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	5	10	2476	878.6	5	10	2575	886.5	23.92	23.71				-0.21			
4A-2A-5A-30A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	5	10	2525	881.5	30	10	9820	2355	23.92	24.12				0.2			
4A-2A-7A-7A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	7	20	3350	2680	7	20	2850	2630	23.92	23.85				-0.07			
4A-2A-7C	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	7	20	3350	2680	7	20	3152	2660.2	23.92	23.78				-0.14			
4A-2A-7A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	7	20	3350	2680	12	10	5095	737.5	23.92	23.85				-0.07			
4A-2A-12B	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	12	5	5035	731.5	12	10	5107	738.7	23.92	23.68				-0.24			
4A-2A-12A-30A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	12	10	5095	737.5	30	10	9820	2355	23.92	23.11				-0.81			
4A-2A-29A-30A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	29	10	9715	722.5	30	10	9820	2355	23.92	23.98				0.06			
4A-4A-2A-2A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	2	20	700	1940	2	20	1100	1980	23.92	23.7				-0.22			
4A-4A-2A-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	2	20	700	1940	5	10	2525	881.5	23.92	23.82				-0.1			
4A-4A-2A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	2	20	700	1940	12	10	5095	737.5	23.92	23.83				-0.09			
4A-4A-5B	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	5	10	2476	878.6	5	10	2575	886.5	23.92	23.77				-0.15			
4A-4A-12B	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	12	5	5035	731.5	12	10	5107	738.7	23.92	23.85				-0.07			
4A-4B	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	23.92	23.74				-0.18			
5A-2A-2A-4A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.39	24.52				0.13			
5A-2A-2A-30A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.39	24.52				0.13			
5A-2A-2A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.39	24.56				0.17			
5A-2A-4A-4A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	4	20	2350	2150	24.39	24.54				0.15			
5A-2A-4A-30A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	30	10	9820	2355	24.39	24.57				0.18			
5A-2A-30A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	30	10	9820	2355	66	20	66786	2145	24.39	24.57				0.18			
5A-2A-48A-48A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	48	20	55340	3560	48	20	56640	5690	24.39	24.56				0.17			
5A-2A-48C	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	48	20	55340	3560	48	20	55538	3579.8	24.39	24.55				0.16			
5A-2A-48A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	48	20	55340	3560	66	20	66536	2120	24.39	24.53				0.14			
5A-2A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.39	24.53				0.14			
5A-2A-66B	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	66	15	66786	2145	66	5	66879	2154.3	24.39	24.53				0.14			
5A-2A-66C	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66984	2164.8	24.39	24.57				0.18			
5B-2A-4A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	2	20	900	1960	4	20	2175	2132.5	24.39	24.56				0.17			
5B-2A-30A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	2	20	900	1960	30	10	9820	2355	24.39	24.56				0.17			
5A-5A-2A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2600	889	2	20	1100	1980	66	20	66786	2145	24.39	24.55				0.16			
5B-2A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	2	20	900	1960	66	20	66786	2145	24.39	24.53				0.14			
5B-4A-4A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	4	20	2175	2132.5	4	10	2350	2150	24.39	24.52				0.13			
5B-30A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	30	10	9820	2355	66	20	66786	2145	24.39	24.56				0.17			
5A-5A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2600	889	66	20	66786	2145	66	20	67236	2190	24.39	24.52				0.13			
5A-5A-66B	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2600	889	66	15	66786	2145	66	5	66879	2154.3	24.39	24.54				0.15			
5B-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	66	20	66786	2145	66	20	66984	2164.8	24.39	24.57				0.18			
5B-66B	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	66	15	66786	2145	66	5	66879	2154.3	24.39	24.57				0.18			
5B-66C	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	66	20	66786	2145	66	20	66984	2164.8	24.39	24.56				0.17			
5A-30A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.39	24.56				0.17			
5A-48A-48C	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	56207	3646.7	48	20	55340	3560	48	20	55538	3579.8	24.39	24.53				0.14			
5A-48A-48B	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	56207	3646.7	48	20	56009	3626.9	48	20	56405	3665.5	24.39	24.55				-0.04			
5A-48A-48A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	55340	3560	48	20	56405	3690	66	20	66786	2145	24.39	24.54				0.15			
5A-48C-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	55340	3560	48	20	55538	3579.8	66	20	66536	2120	24.39	24.6				0.			

Combination	Band	BW	PCC						Modulation	RB	offset	SCC				SCC				SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency						Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA Enabled (dBm)	
26A-25A-41C	26	15	26865	831.5	8865	876.5	QPSK	1	0	25	20	8140	1940	41	20	40620	2593	41	20	40818	2612.8	24.75	24.44	-0.31		
30A-2A-2A-5A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.13	23.97	-0.16		
30A-2A-2A-12A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	12	10	5095	737.5	24.13	23.93	-0.2		
30A-2A-2A-14A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	14	10	5330	763	24.13	23.96	-0.17		
30A-2A-2A-29A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	29	10	9715	722.5	24.13	23.87	-0.26		
30A-2A-2A-66A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	66	20	66786	2145	24.13	23.96	-0.17		
30A-2A-4A-5A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	4	20	2175	2132.5	5	10	2525	881.5	24.13	23.93	-0.2		
30A-2A-4A-12A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	4	20	2175	2132.5	12	10	5095	737.5	24.13	23.93	-0.2		
30A-2A-4A-29A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	4	20	2175	2132.5	29	10	9715	722.5	24.13	23.98	-0.15		
30A-2A-5B	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	5	10	2476	878.6	5	10	2575	886.5	24.13	24.03	-0.1		
30A-2A-5A-66A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	5	10	2525	881.5	66	20	66786	2145	24.13	24.01	-0.12		
30A-2A-12A-66A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	12	10	5095	737.5	66	20	66786	2145	24.13	23.97	-0.16		
30A-2A-14A-66A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	14	10	5330	763	66	20	66786	2145	24.13	23.97	-0.16		
30A-2A-29A-66A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	29	10	9715	722.5	66	20	66786	2145	24.13	23.99	-0.14		
30A-2A-66A-66A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.13	23.98	-0.15		
30A-5B-66A	30	5	27710	2310	9820	2355	QPSK	1	12	5	10	2476	878.6	5	10	2575	886.5	66	20	66786	2145	24.13	24.1	-0.03		
30A-5A-66A-66A	30	5	27710	2310	9820	2355	QPSK	1	12	5	10	2525	881.5	66	20	66786	2145	66	20	67236	2190	24.13	23.86	-0.27		
30A-12A-66A-66A	30	5	27710	2310	9820	2355	QPSK	1	12	12	10	5095	737.5	66	20	66786	2145	66	20	67236	2190	24.13	23.92	-0.21		
30A-14A-66A-66A	30	5	27710	2310	9820	2355	QPSK	1	12	14	10	5330	763	66	20	66786	2145	66	20	67236	2190	24.13	23.98	-0.15		
30A-29A-66A-66A	30	5	27710	2310	9820	2355	QPSK	1	12	29	10	9715	722.5	66	20	66786	2145	66	20	67236	2190	24.13	24.01	-0.12		
41A-41D	41	5	40620	2593	40620	2593	QPSK	1	0	41	20	41094	2640.4	41	20	41292	2660.2	41	20	41490	2680	23.48	23.58	0.1		
41C-41C	41	10	40620	2593	40620	2593	QPSK	0	0	41	20	40764	2607.4	41	20	41292	2660.2	41	20	41490	2680	23.45	23.6	0.15		
41D-41A	41	10	40620	2593	40620	2593	QPSK	1	0	41	20	40476	2578.6	41	20	40278	2558.8	41	20	41490	2680	23.45	23.61	0.16		
41E	41	20	40620	2593	40620	2593	QPSK	1	0	41	20	40476	2578.6	41	20	41016	2632.6	41	20	41214	2652.4	23.43	23.58	0.15		
48A-48D	48	10	56690	3695	56690	3695	QPSK	1	49	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	24.79	24.35	-0.44		
48C-48C	48	10	56690	3695	56690	3695	QPSK	1	49	48	20	55546	3680.6	48	20	55340	3560	48	20	55538	3579.8	24.79	24.35	-0.44		
48D-48A	48	10	56690	3695	56690	3695	QPSK	1	49	48	20	56546	3680.6	48	20	56348	3660.8	48	20	55340	3560	24.79	24.38	-0.41		
48E	48	10	56690	3695	56690	3695	QPSK	1	49	48	20	56546	3680.6	48	20	56348	3660.8	48	20	56150	3641	24.79	24.42	-0.37		
66A-2A-2A-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	24.16	24.06	-0.1		
66A-2A-2A-7A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	7	20	3100	2655	24.16	24.14	-0.02		
66A-2A-2A-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.16	24.06	-0.1		
66A-2A-2A-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.16	24.08	-0.08		
66A-2A-2A-14A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	14	10	5330	763	24.16	24.07	-0.09		
66A-2A-2A-30A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.16	23.77	-0.39		
66A-2A-2A-71A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	71	20	68761	634.5	24.16	24.11	-0.05		
66A-2A-5A-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	5	10	2625	891.5	24.16	24.15	-0.01		
66A-2A-5B	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	5	10	2597	888.7	24.16	24.18	0.02		
66A-2A-5A-30A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	30	10	9820	2355	24.16	23.68	-0.48		
66A-2A-5A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	48	20	56207	3646.7	24.16	24.12	-0.04		
66A-2A-7A-7A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	7	20	3350	2680	24.16	24.21	0.05		
66A-2A-7C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	7	20	3298	2674.8	24.16	24.15	-0.01		
66A-2A-7A-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	12	10	5095	737.5	24.16	22.33	-1.83		
66A-2A-7A-29A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	29	10	9715	722.5	24.16	24.14	-0.02		
66A-2A-12B	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	12	5	5035	731.5	12	10	5107	738.7	24.16	24.11	-0.05		
66A-2A-12A-30A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	12	10	5095	737.5	30	10	9820	2355	24.16	23.93	-0.23		
66A-2A-13A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	13	10	5230	751	48	20	56207	3646.7	24.16	24.19	0.03		
66A-2A-14A-30A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.16	23.98	-0.18		
66A-2A-29A-30A	6																									

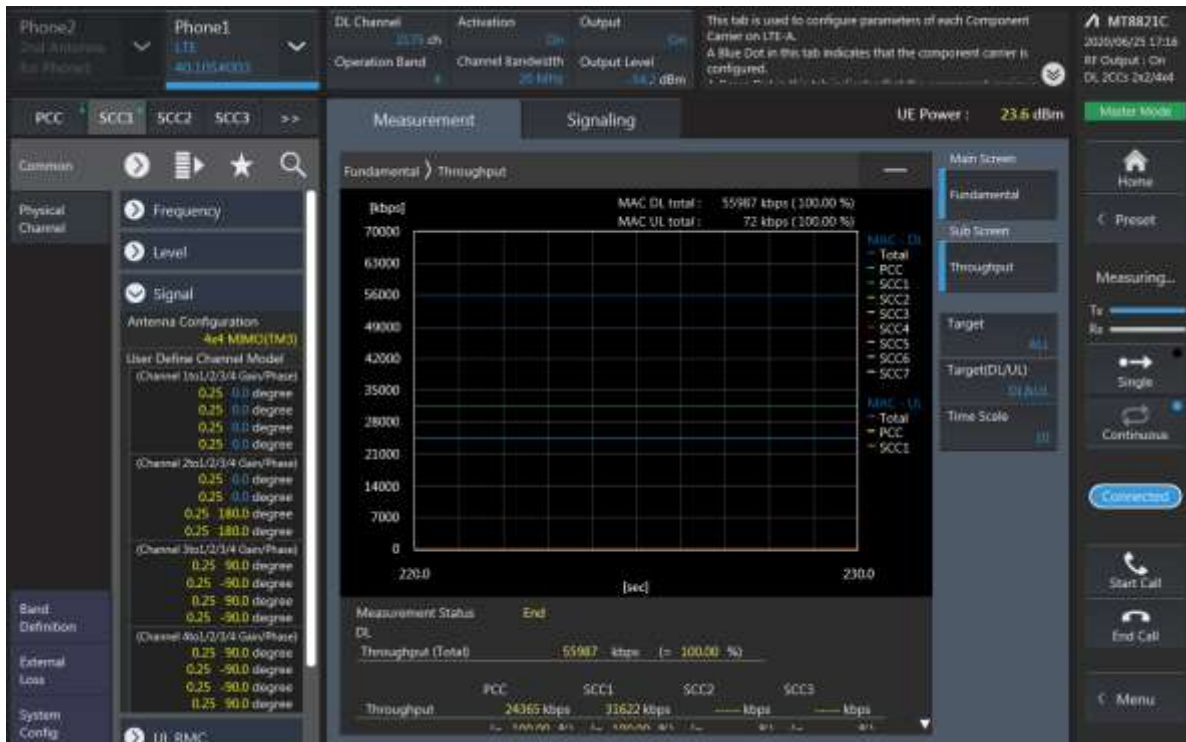
Combination	Band	BW	PCC				Modulation	RB	offset	SCC				SCC				SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency				Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with CA (dBm)	
71A-2A-2A-4A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.47	24.44	-0.03
71A-2A-2A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.47	24.52	0.05
71A-2A-66A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.47	24.57	0.1
71A-2A-66C	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66984	2164.8	24.47	24.44	-0.03
2A-2A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	46	20	50665	5537.5	46	20	50467	5517.7	23.52	23.44	-0.08
2A-5A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	46	20	50665	5537.5	46	20	50467	5517.7	23.52	23.46	-0.06
2A-7A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	10	187550	21100	46	20	50665	5537.5	46	20	50467	5517.7	23.52	23.06	-0.46
2A-13A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	46	20	50665	5537.5	46	20	50467	5517.7	23.52	23.54	0.02
2A-46A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	46	20	53540	5825	23.52	23.68	0.16
2A-46D	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50269	5497.9	23.52	23.69	0.17
2A-46C-48A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	48	20	56207	3646.7	23.52	23.47	-0.05
2A-46A-46A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	47090	5180	66	20	66786	2145	23.52	23.71	0.19
2A-46C-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	66	20	66786	2145	23.52	23.7	0.18
2A-46A-48C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	48	20	56207	3646.7	48	20	56405	3666.5	23.52	23.57	0.05
2A-46A-48A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	48	20	56207	3646.7	66	20	713196	66786	23.52	23.7	0.18
4A-46A-46C	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	46	20	50665	5537.5	46	20	50467	5517.7	46	20	53540	5825	23.92	23.72	-0.2
4A-46D	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50863	5557.3	23.92	23.71	-0.21
5A-2A-46C	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	46	20	50665	5537.5	46	20	50467	5517.7	24.39	24.51	0.12
5B-46C	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	46	20	50665	5537.5	46	20	50467	5517.7	24.39	24.58	0.19
5A-46D	5	5	20425	826.5	2425	871.5	QPSK	1	0	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50863	5557.3	24.39	24.54	0.15
5A-46C-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	46	20	50665	5537.5	46	20	50467	5517.7	66	20	66786	2145	24.39	24.49	0.1
7A-2A-46C	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	46	20	50665	5537.5	46	20	50467	5517.7	24.51	24.42	-0.09
7A-7A-46C	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	46	20	50665	5537.5	46	20	50467	5517.7	24.51	24.43	-0.08
7C-46C	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	3308	2675.8	46	20	50665	5537.5	46	20	50467	5517.7	24.51	24.44	-0.07
7A-46D	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50863	5557.3	24.51	24.46	-0.05
12A-46D	12	10	23095	707.5	5095	737.5	QPSK	1	0	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50863	5557.3	24.82	24.47	-0.35
13A-2A-46C	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	46	20	50665	5537.5	46	20	50467	5517.7	24.36	24.32	-0.04
13A-46D	13	10	23230	782	5230	751	QPSK	1	0	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50863	5557.3	24.36	24.32	-0.04
13A-46C-66A	13	10	23230	782	5230	751	QPSK	1	0	46	20	50665	5537.5	46	20	50467	5517.7	66	20	66786	2145	24.36	24.31	-0.05
25A-46D	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50863	5557.3	24.07	23.95	-0.12
66A-2A-46A-46A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	46	20	50467	5517.7	46	20	50863	5557.3	24.16	24.07	-0.09
66A-2A-46C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	46	20	50665	5537.5	46	20	50467	5517.7	24.16	24.01	-0.15
66A-2A-46A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	46	20	50665	5537.5	48	20	56207	3646.7	24.16	24.05	-0.11
66A-5A-46C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	5	10	2525	881.5	46	20	50665	5537.5	46	20	50467	5517.7	24.16	24.04	-0.12
66A-13A-46C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	13	10	5230	751	46	20	50665	5537.5	46	20	50467	5517.7	24.16	23.67	-0.49
66A-46A-46C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	46	20	50665	5537.5	46	20	50467	5517.7	46	20	53540	5825	24.16	24.05	-0.11
66A-46D	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50863	5557.3	24.16	24.01	-0.15
66A-46C-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	46	20	50665	5537.5	46	20	50467	5517.7	48	20	56207	3646.7	24.16	24.02	-0.14
66A-46A-48C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	46	20	50665	5537.5	48	20	56207	3646.7	48	20	56405	3666.5	24.16	24.07	-0.09
66A-66A-46C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	46	20	50665	5537.5	46	20	50467	5517.7	24.16	24.02	-0.14
66A-66A-66A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66786	2145	66	20	66536	2120	48	20	56207	3646.7	24.16	23.99	-0.17
66A-48D	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	48	20	56207	3646.7	48	20	56009	3626.9	48	20	56405	3666.5	24.16	23.99	-0.17
66A-66A-66A-46A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66786	2145	66	20	66536	2120	46	20	50665	5537.5	24.16	24.05	-0.11

2. LTE Down Link 2CA 4x4 MIMO Call Setup

PCC Setting : Channel/ RB/ BW/ Modulation



SCC Setting : Channel/ RB/ BW/ Modulation and call Connection

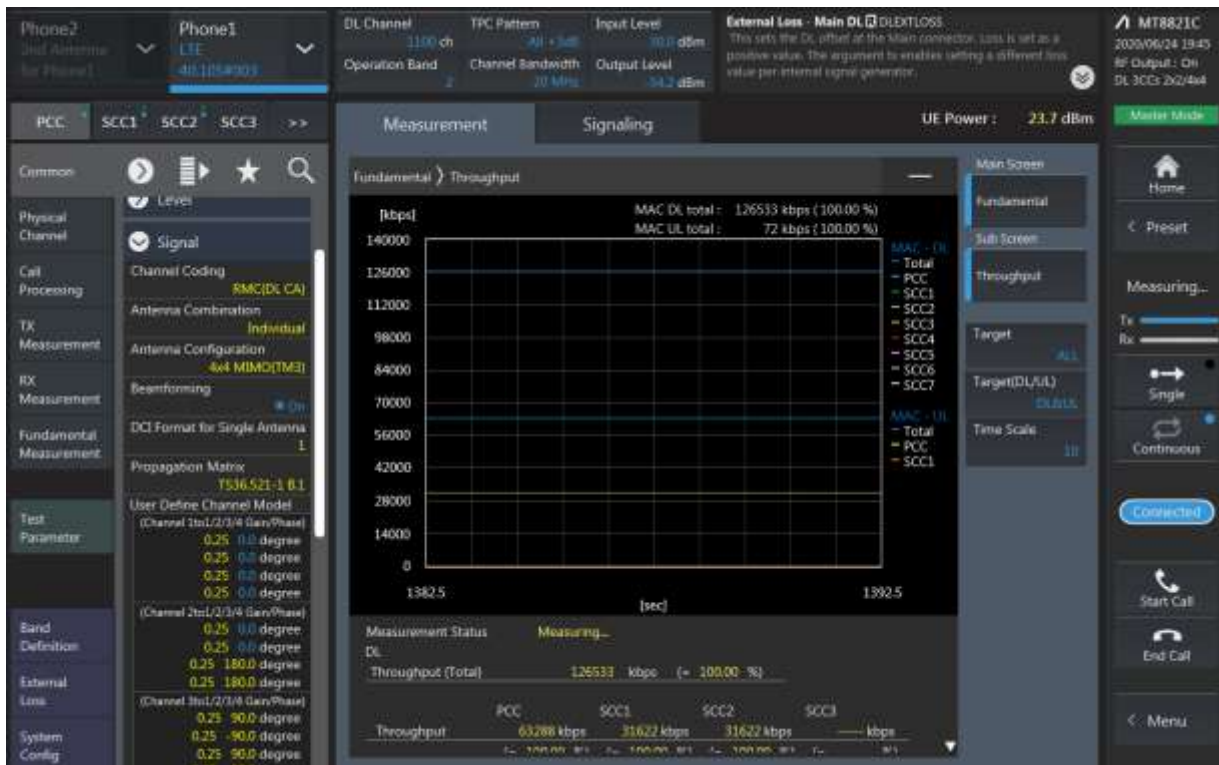


LTE Downlink 2CA 4X4 MIMO Maximum Conducted Power

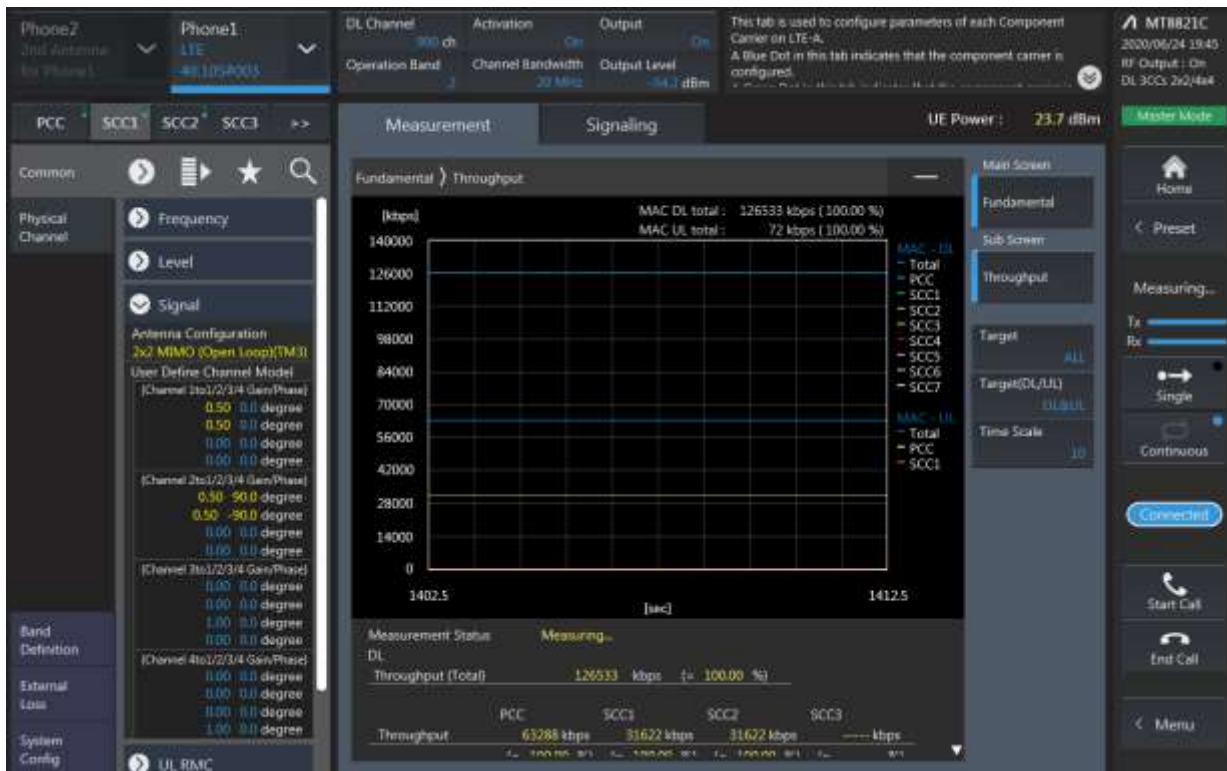
Combination	Band	BW	PCC							SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA Enabled (dBm)	
5A-[25A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	25	20	8365	1962.5	24.39	24.06	-0.33
[25A]-5A	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	5	10	2525	881.5	24.07	23.87	-0.20
[41A]-[41A]	41	5	40620	2593	40620	2593	QPSK	1	0	41	20	41490	2680	23.48	23.56	0.08
[48A]-[48A]	48	10	56690	3695	56690	3695	QPSK	1	49	48	20	55340	3560	24.79	24.46	-0.33

3. LTE Down Link 3CA 4x4 MIMO Call Setup

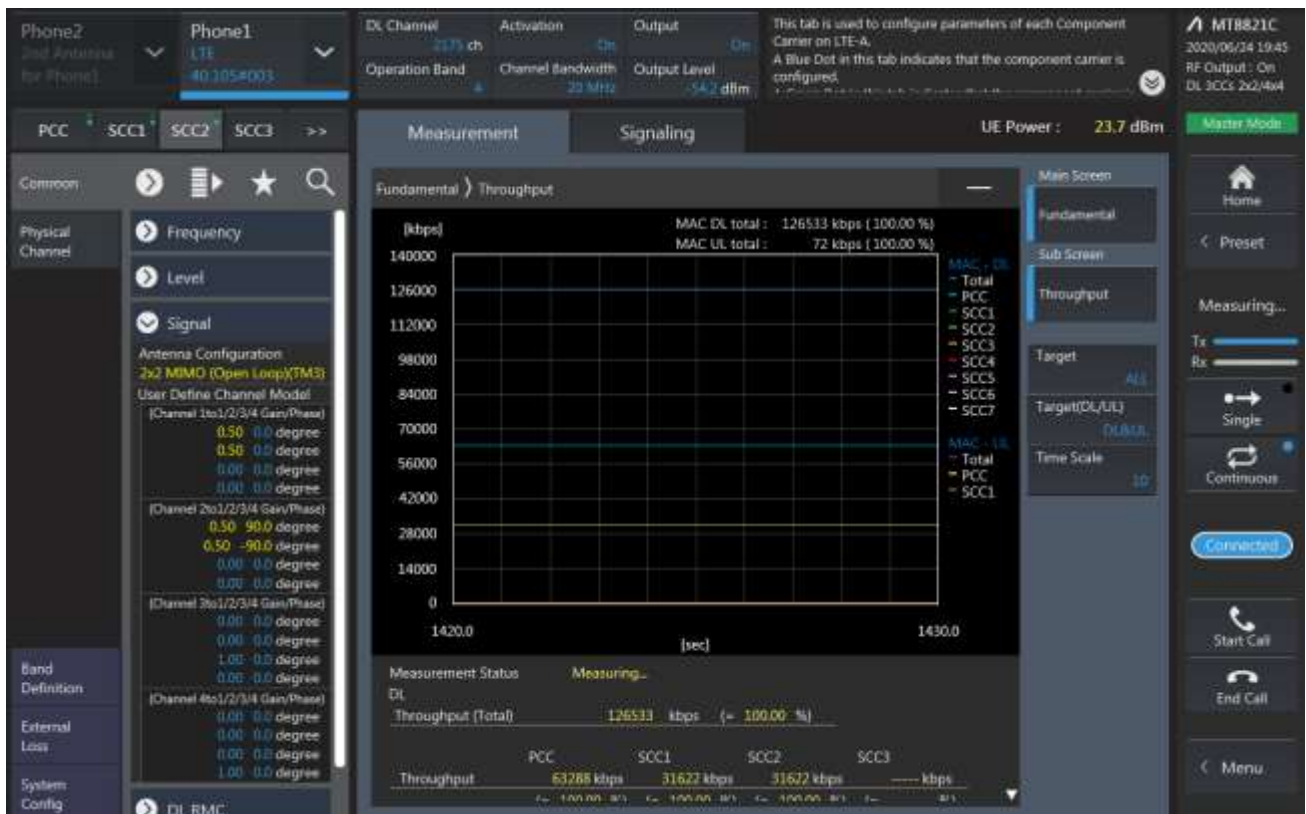
PCC Setting: Channel /RB/BW/Modulation



CC1 Setting: Channel /RB/BW/Modulation



SCC2 Setting (Channel /RB/BW/Modulation)and call Connection



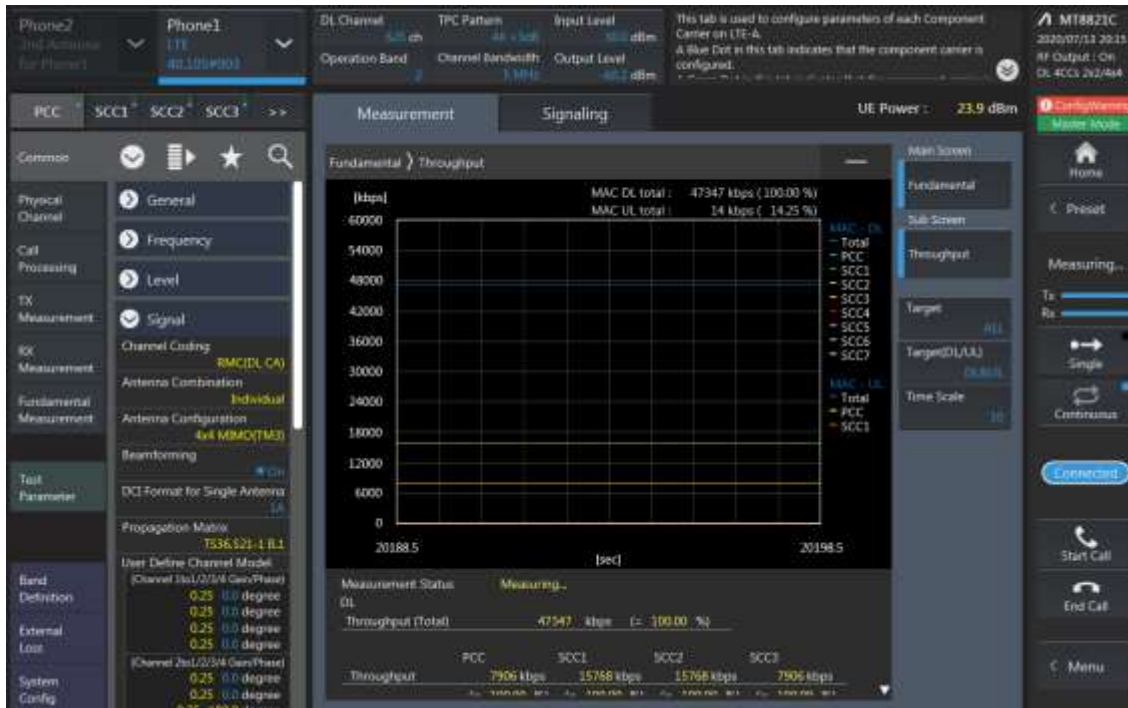
LTE Downlink 3CA 4X4 MIMO Maximum Conducted Power

Combination	Band	BW	PCC						offset	SCC				SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB		Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA Enabled (dBm)	
[2A]-[2A]-[4A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2175	2132.5	23.52	23.02	-0.50
[2A]-[2A]-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	67036	2170	23.52	23.09	-0.43
[2C]-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	742	1944.2	66	20	66786	2145	23.52	23.18	-0.34
2A-4A-[4A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2175	2132.5	4	10	2350	2150	23.52	23.04	-0.48
[2A]-4A-[4A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2175	2132.5	4	10	2350	2150	23.52	22.85	-0.67
[2A]-[4A]-[4A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2175	2132.5	4	10	2350	2150	23.52	22.89	-0.63
2A-[4A]-13A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2175	2132.5	13	10	5230	751	23.52	22.90	-0.62
[2A]-4A-13A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2175	2132.5	13	10	5230	751	23.52	22.88	-0.64
[2A]-[4A]-13A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2175	2132.5	13	10	5230	751	23.52	23.09	-0.43
[2A]-5A-7A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	7	20	3100	2655	23.52	23.23	-0.29
[2A]-7C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	7	20	3152	2660.2	23.52	23.11	-0.41
[2A]-[48A]-[48A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	56640	5690	23.52	22.84	-0.68
[2A]-[48C]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	55538	3579.8	23.52	22.86	-0.66
[2A]-[48A]-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	66	20	66536	2120	23.52	23.02	-0.50
[2A]-[66A]-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	66	20	66536	2120	66	20	67036	2170	23.52	22.87	-0.65
[2A]-[66B]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	66	15	66786	2145	66	5	66879	2154.3	23.52	22.86	-0.66
[2A]-[66C]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	66	20	66786	2145	66	20	66984	2164.8	23.52	22.90	-0.62
4A-2A-[2A]	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	23.92	23.23	-0.69
[4A]-2A-[2A]	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	23.92	23.25	-0.67
[4A]-[2A]-[2A]	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	23.92	23.24	-0.68
4A-[2A]-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	900	1960	13	10	5230	751	23.92	23.29	-0.63
[4A]-2A-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	900	1960	13	10	5230	751	23.92	23.33	-0.59
[4A]-[2A]-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	900	1960	13	10	5230	751	23.92	23.31	-0.61
[4A]-[4A]-[2A]	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	2	20	700	1940	23.92	23.27	-0.65
4A-[4A]-7A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	7	20	3100	2655	23.92	23.69	-0.23
[4A]-4A-7A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	7	20	3100	2655	23.92	23.38	-0.54
[4A]-[4A]-7A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	7	20	3100	2655	23.92	23.35	-0.57
4A-[4A]-7A	4	10	20350	1750	2350	2150	QPSK	1	49	4	10	2000	2115	7	20	3100	2655	23.7	23.49	-0.21
[4A]-4A-7A	4	10	20350	1750	2350	2150	QPSK	1	49	4	10	2000	2115	7	20	3100	2655	23.7	23.52	-0.18
[4A]-[4A]-7A	4	10	20350	1750	2350	2150	QPSK	1	49	4	10	2000	2115	7	20	3100	2655	23.7	23.50	-0.20
4A-[4A]-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	13	10	5230	751	23.92	23.79	-0.13
[4A]-4A-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	13	10	5230	751	23.92	23.77	-0.15
[4A]-[4A]-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	13	10	5230	751	23.92	23.80	-0.12
4A-[4A]-29A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	29	10	9715	722.5	23.92	23.31	-0.61
[4A]-4A-29A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	29	10	9715	722.5	23.92	23.30	-0.62
4A-[4A]-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	71	20	68761	634.5	23.92	23.31	-0.61
[4A]-4A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	71	20	68761	634.5	23.92	23.32	-0.60
[4A]-[4A]-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	4	20	2050	2120	71	20	68761	634.5	23.92	23.34	-0.58
4A-[48C]	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	48	20	55340	3560	48	20	55538	3579.8	23.92	23.36	-0.56
[4A]-[48C]	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	48	20	55340	3560	48	20	55538	3579.8	23.92	23.37	-0.55
5A-[2A]-7A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	7	20	3100	2655	24.39	24.18	-0.21
7A-[2A]-5A	7	10	21400	2565	3400	2685	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	24.48	23.93	-0.55
7A-[2A]-13A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	13	10	5230	751	24.51	24.01	-0.50
7A-4A-[4A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	4	10	2175	2132.5	4	10	2350	2150	24.51	23.98	-0.53
7A-[4A]-4A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	4	10	2175	2132.5	4	10	2350	2150	24.51	23.88	-0.63
7A-[4A]-[4A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	4	10	2175	2132.5	4	10	2350	2150	24.51	23.93	-0.58
7A-4A-[4A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	4	20	2175	2132.5	4	10	2350	2150	24.51	23.94	-0.57
7A-[4A]-4A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	4	20	2175	2132.5	4	10	2350	2150	24.51	23.91	-0.60
7A-[4A]-[4A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	4	20	2175	2132.5	4	10	2350	2150	24.51	23.98	-0.53
7A-29A-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	29	10	9715	722.5	66	20	66786	2145	24.51	23.99	-0.52

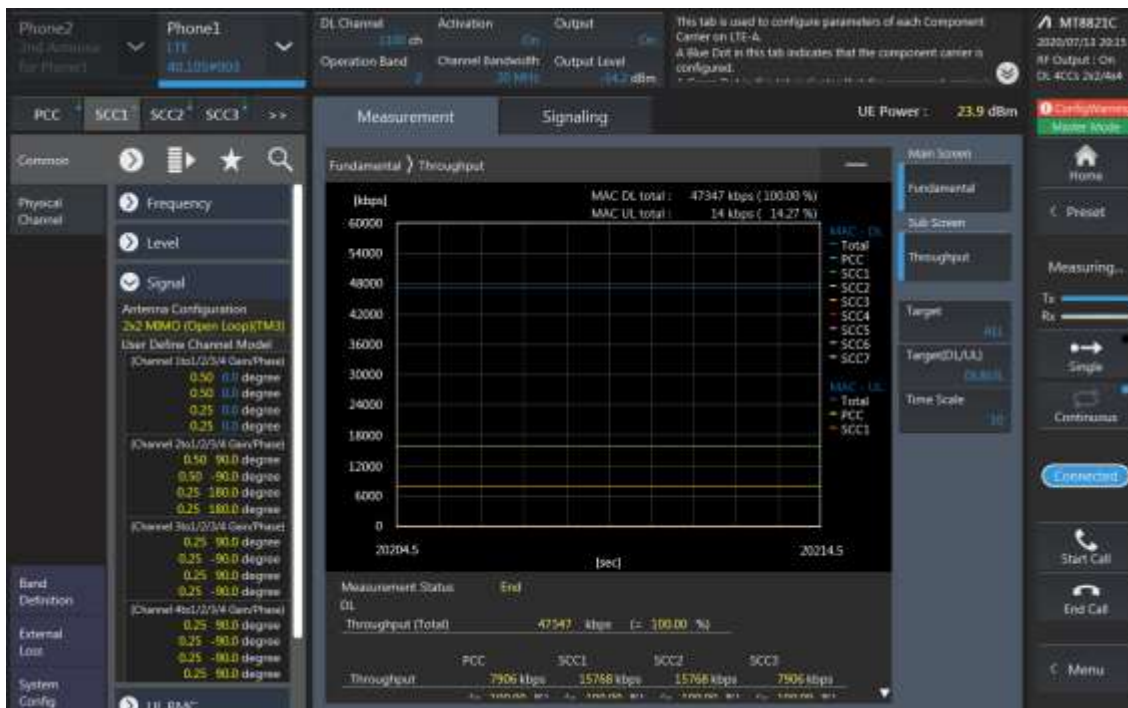
Combination	PCC									SCC				SCC				Tx Power		Deviation
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA Enabled(dBm)	
13A-2A-[4A]	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	24.36	23.86	-0.50
13A-[2A]-4A	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	24.36	23.85	-0.51
13A-[2A]-[4A]	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	24.36	23.83	-0.53
13A-[4A]-4A	13	10	23230	782	5230	751	QPSK	1	0	4	20	2175	2132.5	4	10	2350	2150	24.36	23.84	-0.52
13A-[4A]-[4A]	13	10	23230	782	5230	751	QPSK	1	0	4	20	2175	2132.5	4	10	2350	2150	24.36	23.88	-0.48
13A-66A-[66A]	13	10	23230	782	5230	751	QPSK	1	0	66	20	66786	2145	66	20	67236	2190	24.36	23.84	-0.52
25A-[25A]-26A	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	26	5	8865	876.5	24.07	23.95	-0.12
[25A]-25A-26A	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	26	5	8865	876.5	24.07	23.99	-0.08
[25A]-[25A]-26A	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	26	5	8865	876.5	24.07	23.95	-0.62
25A-[25A]-[41A]	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	41	20	40620	2593	24.07	24.01	-0.06
[25A]-25A-[41A]	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	41	20	40620	2593	24.07	23.80	-0.27
[25A]-[25A]-[41A]	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	41	20	40620	2593	24.07	23.82	-0.25
[25A]-26A-[41A]	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	41	20	40620	2593	24.07	23.81	-0.26
[25A]-[41C]	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	41	20	40620	2593	41	20	40818	2612.8	24.07	23.84	-0.23
26A-25A-[25A]	26	5	26715	816.5	8715	861.5	QPSK	1	0	25	20	8365	1962.5	25	20	8590	1985	24.57	23.98	-0.59
26A-[25A]-25A	26	5	26715	816.5	8715	861.5	QPSK	1	0	25	20	8365	1962.5	25	20	8590	1985	24.57	24.10	-0.47
26A-[25A]-[25A]	26	5	26715	816.5	8715	861.5	QPSK	1	0	25	20	8365	1962.5	25	20	8590	1985	24.57	24.15	-0.42
26A-[25A]-[41A]	26	15	26865	831.5	8865	876.5	QPSK	1	0	25	20	8140	1940	41	20	40620	2593	24.75	24.32	-0.43
[41A]-[41C]	41	5	40620	2593	40620	2593	QPSK	1	0	41	20	41292	2660.2	41	20	41490	2680	23.48	23.39	-0.09
[41C]-[41A]	41	10	40620	2593	40620	2593	QPSK	1	0	41	20	40476	2578.6	41	20	41490	2680	23.45	23.42	-0.03
[41D]	41	5	40620	2593	40620	2593	QPSK	1	0	41	20	40422	2573.2	41	20	40224	2553.4	23.48	23.46	-0.02
[48A]-[48C]	48	10	56690	3695	56690	3695	QPSK	1	49	48	20	55340	3560	48	20	55538	3579.8	24.79	24.21	-0.58
[48C]-[48A]	48	10	56690	3695	56690	3695	QPSK	1	49	48	20	56546	3680.6	48	20	55340	3560	24.79	24.17	-0.62
[48D]	48	10	56690	3695	56690	3695	QPSK	1	49	48	20	56546	3680.6	48	20	56348	3660.8	24.79	24.24	-0.55
[66A]-[2A]-[2A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	24.32	23.89	-0.43
[66A]-[2C]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1098	1979.8	24.32	23.81	-0.51
[66A]-[2A]-[48A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	48	20	56207	3646.7	24.32	23.86	-0.46
[66A]-7C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	7	20	3100	2655	7	20	3298	2674.8	24.32	23.90	-0.42
[66A]-7A-29A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	7	20	3100	2655	29	10	9715	722.5	24.32	23.84	-0.48
[66A]-[48A]-[48A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	48	20	56207	3646.7	48	20	56640	3690	24.32	23.94	-0.38
[66A]-[48C]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	48	20	56207	3646.7	48	20	56405	3666.5	24.32	23.88	-0.44
[66A]-[66A]-[2A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	67311	2197.5	2	20	900	1960	24.32	23.87	-0.45
[66A]-[66A]-[66A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66786	2145	66	20	66536	2120	24.32	23.81	-0.51
[66B]-[2A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	2	20	900	1960	24.32	23.89	-0.43
[66C]-[2A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	2	20	900	1960	24.32	23.84	-0.48
[66A]-[66A]-[48A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	48	20	56207	3646.7	24.32	23.96	-0.36
[66B]-[48A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	48	20	56207	3646.7	24.32	23.97	-0.35
[66C]-[48A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	48	20	56207	3646.7	24.32	24.07	-0.25
66A-[66C]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66786	2145	66	20	66588	2125.2	24.32	23.85	-0.47
[66A]-66C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66786	2145	66	20	66588	2125.2	24.32	23.87	-0.45
[66A]-[66C]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66786	2145	66	20	66588	2125.2	24.32	23.84	-0.48
66C-[66A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	66	20	66536	2120	24.32	23.88	-0.44
[66C]-66A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	66	20	66536	2120	24.32	23.84	-0.48
[66C]-[66A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	66	20	66536	2120	24.32	23.56	-0.76
71A-4A-[4A]	71	10	133172	668	68636	622	QPSK	1	0	4	20	2175	2132.5	4	10	2350	2150	24.47	23.98	-0.49
71A-[4A]-4A	71	10	133172	668	68636	622	QPSK	1	0	4	20	2175	2132.5	4	10	2350	2150	24.47	23.95	-0.52
71A-[4A]-[4A]	71	10	133172	668	68636	622	QPSK	1	0	4	20	2175	2132.5	4	10	2350	2150	24.47	23.90	-0.57
71A-[48A]-48A	71	10	133172	668	68636	622	QPSK	1	0	48	20	56207	3646.7	48	20	56640	3690	24.47	23.97	-0.50
71A-[48A]-[48A]	71	10	133172	668	68636	622	QPSK	1	0	48	20	56207	3646.7	48	20	56640	3690	24.47	23.99	-0.48
71A-[48C]	71	10	133172	668	68636	622	QPSK	1	0	48	20	56207	3646.7	48	20	56405	3666.5	24.47	23.94	-0.53

LTE Down Link 4CA 4x4 MIMO Call Setup

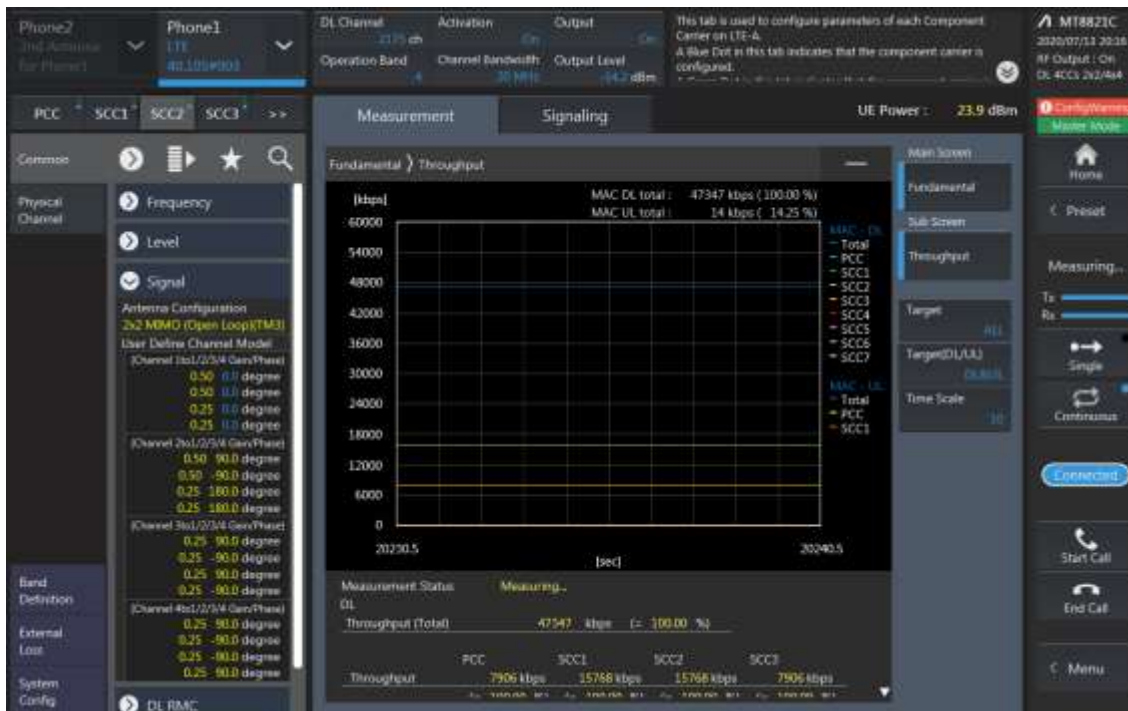
PCC Setting: Channel /RB/BW/Modulation



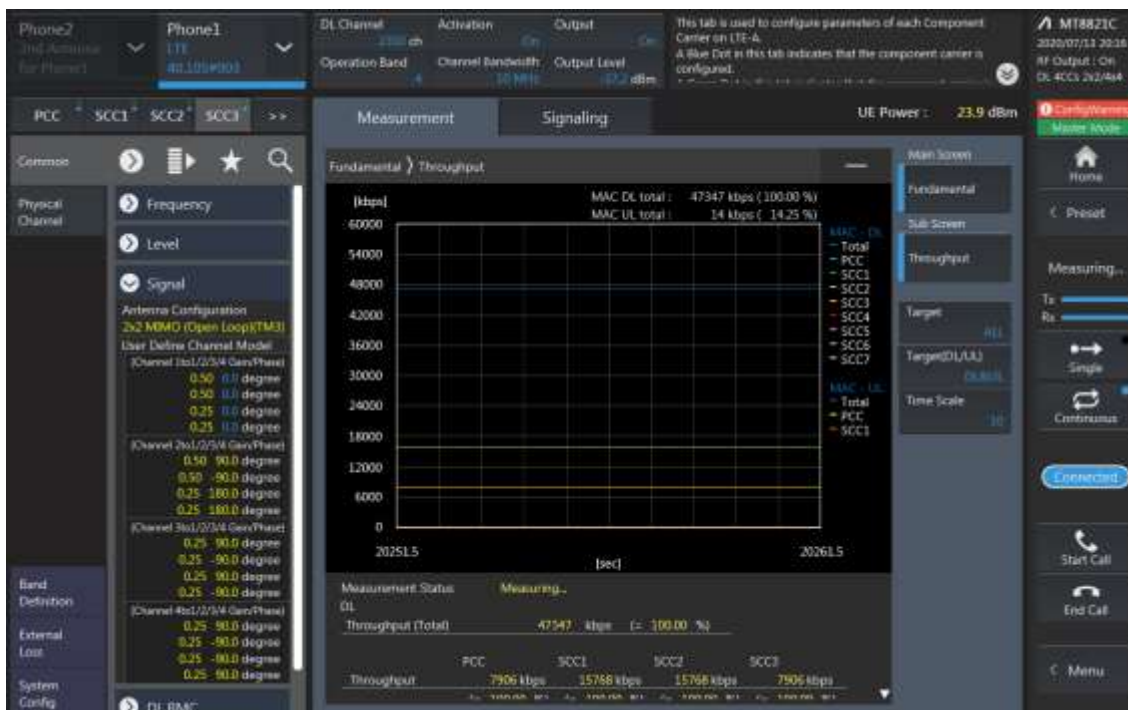
SCC1 Setting : Channel /RB/BW/Modulation



SCC2 Setting (Channel /RB/BW/Modulation) and call Connection



SCC3 Setting (Channel /RB/BW/Modulation) and call Connection



LTE Downlink 4CA 4X4 MIMO Maximum Conducted Power

Combination	Band	BW	PCC				Modulation	RB	offset	SCC				SCC				SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency				Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with CA Enable-(dBm)	
2A-2A-[4A]-4A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2175	2132.5	4	10	2350	2150	23.52	23.54	0.02
2A-[2A]-4A-4A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2175	2132.5	4	10	2350	2150	23.52	23.51	-0.01
[2A]-2A-4A-4A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2175	2132.5	4	10	2350	2150	23.52	23.54	0.02
2A-2A-[4A]-[4A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2175	2132.5	4	10	2350	2150	23.52	23.58	0.06
2A-[2A]-[4A]-4A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2175	2132.5	4	10	2350	2150	23.52	23.54	0.02
[2A]-2A-[4A]-4A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2175	2132.5	4	10	2350	2150	23.52	23.61	0.09
[2A]-[2A]-4A-4A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2175	2132.5	4	10	2350	2150	23.52	23.51	-0.01
2A-2A-[4A]-5A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	5	10	2525	881.5	23.52	23.32	-0.2
2A-[2A]-4A-5A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	5	10	2525	881.5	23.52	23.05	-0.47
[2A]-2A-4A-5A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	5	10	2525	881.5	23.52	23.02	-0.5
2A-[2A]-[4A]-5A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	5	10	2525	881.5	23.52	23.09	-0.43
[2A]-2A-[4A]-5A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	5	10	2525	881.5	23.52	23.02	-0.5
[2A]-[2A]-4A-5A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	5	10	2525	881.5	23.52	23.01	-0.51
2A-2A-[4A]-12A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	12	10	5095	737.5	23.52	23.12	-0.4
2A-[2A]-4A-12A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	12	10	5095	737.5	23.52	23.02	-0.5
[2A]-2A-4A-12A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	12	10	5095	737.5	23.52	23.15	-0.37
2A-[2A]-[4A]-12A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	12	10	5095	737.5	23.52	23.02	-0.5
[2A]-[2A]-4A-12A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	12	10	5095	737.5	23.52	23.07	-0.45
2A-2A-[4A]-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	71	10	68636	622	23.52	23.02	-0.5
2A-[2A]-4A-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	71	10	68636	622	23.52	23.1	-0.42
[2A]-2A-4A-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	71	10	68636	622	23.52	23.15	-0.37
2A-[2A]-[4A]-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	71	10	68636	622	23.52	23.01	-0.51
[2A]-2A-[4A]-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	71	10	68636	622	23.52	23.12	-0.4
[2A]-[2A]-4A-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	4	20	2300	2145	71	10	68636	622	23.52	23.07	-0.45
2A-[2A]-5A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	23.52	23.72	0.2
[2A]-2A-5A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	23.52	23.75	0.23
[2A]-[2A]-5A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	23.52	23.73	0.21
2A-2A-[5A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	5	10	2525	881.5	66	20	67036	2170	23.52	23	-0.52
2A-[2A]-5A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	5	10	2525	881.5	66	20	67036	2170	23.52	23.08	-0.44
[2A]-2A-5A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	5	10	2525	881.5	66	20	67036	2170	23.52	23.03	-0.49
2A-[2A]-5A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	5	10	2525	881.5	66	20	67036	2170	23.52	23.05	-0.47
[2A]-2A-5A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	5	10	2525	881.5	66	20	67036	2170	23.52	23.09	-0.43
[2A]-[2A]-5A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	5	10	2525	881.5	66	20	67036	2170	23.52	23.07	-0.45
2A-[2A]-7A-12A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	7	20	3350	2680	12	10	5095	737.5	23.52	23.17	-0.35
[2A]-2A-7A-12A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	7	20	3350	2680	12	10	5095	737.5	23.52	23.23	-0.29
[2A]-[2A]-7A-12A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	7	20	3350	2680	12	10	5095	737.5	23.52	23.18	-0.34
2A-2A-[7A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	7	20	3350	2680	66	20	67036	2170	23.52	23.01	-0.51
2A-[2A]-7A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	7	20	3350	2680	66	20	67036	2170	23.52	23.21	-0.31
[2A]-2A-7A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	7	20	3350	2680	66	20	67036	2170	23.52	23.17	-0.35
2A-[2A]-[7A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	7	20	3350	2680	66	20	67036	2170	23.52	23.23	-0.29
[2A]-[2A]-7A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	7	20	3350	2680	66	20	67036	2170	23.52	23.12	-0.4
2A-[2A]-7A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	7	20	3350	2680	66	20	67036	2170	23.52	23.13	-0.39
2A-[2A]-12B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	5	5035	731.5	12	10	5107	738.7	23.52	23.2	-0.32
[2A]-2A-12B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	5	5035	731.5	12	10	5107	738.7	23.52	23.15	-0.37
[2A]-[2A]-12B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	5	5035	731.5	12	10	5107	738.7	23.52	23.12	-0.4

Combination	Band	BW	PCC				Modulation	RB	offset	SCC				SCC				SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency				Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA (dBm)	
2A-[2A]-12A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	23.52	23.36	-0.16
[2A]-2A-12A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	23.52	23.42	-0.1
[2A]-[2A]-12A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	23.52	23.68	0.16
2A-2A-12A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	10	5095	737.5	66	20	67036	2170	23.52	23.03	-0.49
2A-[2A]-12A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	10	5095	737.5	66	20	67036	2170	23.52	23.16	-0.36
[2A]-2A-12A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	10	5095	737.5	66	20	67036	2170	23.52	23.02	-0.5
2A-[2A]-12A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	10	5095	737.5	66	20	67036	2170	23.52	23.12	-0.4
[2A]-2A-12A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	10	5095	737.5	66	20	67036	2170	23.52	23.04	-0.48
2A-[2A]-12A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	12	10	5095	737.5	66	20	67036	2170	23.52	23.07	-0.45
2A-2A-13A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	13	10	5230	751	66	20	67036	2170	23.52	23.05	-0.47
2A-[2A]-13A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	13	10	5230	751	66	20	67036	2170	23.52	23.07	-0.45
[2A]-2A-13A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	13	10	5230	751	66	20	67036	2170	23.52	23.17	-0.35
2A-[2A]-13A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	13	10	5230	751	66	20	67036	2170	23.52	23.09	-0.43
[2A]-2A-13A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	13	10	5230	751	66	20	67036	2170	23.52	23.01	-0.51
[2A]-[2A]-13A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	13	10	5230	751	66	20	67036	2170	23.52	23.12	-0.4
2A-[2A]-14A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	14	10	5330	763	30	10	9820	2355	23.52	23.66	0.14
[2A]-2A-14A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	14	10	5330	763	30	10	9820	2355	23.52	23.52	0
[2A]-[2A]-14A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	14	10	5330	763	30	10	9820	2355	23.52	23.69	0.17
2A-2A-14A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	14	10	5330	763	66	20	67036	2170	23.52	23.03	-0.49
2A-[2A]-14A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	14	10	5330	763	66	20	67036	2170	23.52	23.06	-0.46
[2A]-2A-14A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	14	10	5330	763	66	20	67036	2170	23.52	23.09	-0.43
2A-[2A]-14A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	14	10	5330	763	66	20	67036	2170	23.52	23.14	-0.38
[2A]-2A-14A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	14	10	5330	763	66	20	67036	2170	23.52	23.04	-0.48
[2A]-[2A]-14A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	14	10	5330	763	66	20	67036	2170	23.52	23.07	-0.45
2A-[2A]-29A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	29	10	9715	722.5	30	10	9820	2355	23.52	23.55	0.03
[2A]-2A-29A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	29	10	9715	722.5	30	10	9820	2355	23.52	23.58	0.06
[2A]-[2A]-29A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	29	10	9715	722.5	30	10	9820	2355	23.52	23.66	0.14
2A-2A-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	30	10	9820	2355	66	20	67036	2170	23.52	23.64	0.12
[2A]-2A-30A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	30	10	9820	2355	66	20	67036	2170	23.52	23.61	0.09
[2A]-2A-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	30	10	9820	2355	66	20	67036	2170	23.52	23.63	0.11
2A-[2A]-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	30	10	9820	2355	66	20	67036	2170	23.52	23.64	0.12
[2A]-[2A]-30A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	30	10	9820	2355	66	20	67036	2170	23.52	23.65	0.13
2A-2A-66A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66536	2120	66	20	67036	2170	23.52	22.95	-0.57
2A-[2A]-66A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66536	2120	66	20	67036	2170	23.52	23.02	-0.5
[2A]-2A-66A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66536	2120	66	20	67036	2170	23.52	23.04	-0.48
[2A]-2A-66A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66536	2120	66	20	67036	2170	23.52	22.99	-0.53
2A-[2A]-66A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66536	2120	66	20	67036	2170	23.52	22.98	-0.54
2A-[2A]-66A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66536	2120	66	20	67036	2170	23.52	23.02	-0.5
[2A]-2A-66A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66536	2120	66	20	67036	2170	23.52	23.03	-0.49
[2A]-2A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66536	2120	66	20	67036	2170	23.52	22.98	-0.54
[2A]-2A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66536	2120	66	20	67036	2170	23.52	23.06	-0.46
2A-2A-[66B]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	15	66786	2145	66	5	66879	2154.3	23.52	23.04	-0.48
2A-[2A]-66B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	15	66786	2145	66	5	66879	2154.3	23.52	23.06	-0.46
[2A]-2A-66B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	15	66786	2145	66	5	66879	2154.3	23.52	23.1	-0.42
[2A]-[2A]-66B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	15	66786	2145	66	5	66879	2154.3	23.52	23.01	-0.51
2A-2A-[66C]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66786	2145	66	20	66984	2164.8	23.52	23.08	-0.44
[2A]-2A-66C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66786	2145	66	20	66984	2164.8	23.52	23.03	-0.49
2A-[2A]-66C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66786	2145	66	20	66984	2164.8	23.52	23.02	-0.5
[2A]-[2A]-66C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	66	20	66786	2145	66	20	66984	2164.8	23.52	23.04	-0.48
2C-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	742	1944.2	66	20	66536	2120	66	20	67036				

Combination	Band	BW	PCC						SCC				SCC				SCC				Tx Power		Deviation	
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)		LTE Tx Power with DL CA (dBm)
2A-[4A]-5B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	5	10	2476	878.6	5	10	2575	886.5	23.52	23.08	-0.44
[2A]-4A-5B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	5	10	2476	878.6	5	10	2575	886.5	23.52	23.06	-0.46
[2A]-[4A]-5B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	5	10	2476	878.6	5	10	2575	886.5	23.52	23.12	-0.4
[2A]-4A-5A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	5	10	2525	881.5	30	10	9820	2355	23.52	23.52	0
2A-[4A]-5A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	5	10	2525	881.5	30	10	9820	2355	23.52	23.58	0.06
[2A]-[4A]-5A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	5	10	2525	881.5	30	10	9820	2355	23.52	23.51	-0.01
2A-[4A]-7A-7A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	7	20	2850	2630	23.52	23.23	-0.29
[2A]-4A-7A-7A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	7	20	2850	2630	23.52	23.26	-0.26
[2A]-[4A]-7A-7A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	7	20	2850	2630	23.52	23.24	-0.28
2A-[4A]-7C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	7	20	3152	2660.2	23.52	23.2	-0.32
[2A]-4A-7C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	7	20	3152	2660.2	23.52	23.19	-0.33
[2A]-[4A]-7C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	7	20	3152	2660.2	23.52	23.21	-0.31
2A-[4A]-7A-12A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	12	10	5095	737.5	23.52	23.13	-0.39
[2A]-4A-7A-12A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	12	10	5095	737.5	23.52	23.22	-0.3
[2A]-[4A]-7A-12A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	7	20	3350	2680	12	10	5095	737.5	23.52	23.27	-0.25
2A-[4A]-12B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	12	5	5035	731.5	12	10	5107	738.7	23.52	23.06	-0.46
[2A]-4A-12B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	12	5	5035	731.5	12	10	5107	738.7	23.52	23.15	-0.37
[2A]-[4A]-12B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	12	5	5035	731.5	12	10	5107	738.7	23.52	23.1	-0.42
[2A]-4A-12A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	12	10	5095	737.5	30	10	9820	2355	23.52	23.52	0
2A-[4A]-12A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	12	10	5095	737.5	30	10	9820	2355	23.52	23.66	0.14
[2A]-[4A]-12A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	12	10	5095	737.5	30	10	9820	2355	23.52	23.55	0.03
2A-[4A]-29A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	29	10	9715	722.5	30	10	9820	2355	23.52	23.57	0.05
[2A]-4A-29A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	29	10	9715	722.5	30	10	9820	2355	23.52	23.55	0.03
[2A]-[4A]-29A-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	4	20	2300	2145	29	10	9715	722.5	30	10	9820	2355	23.52	23.63	0.11
[2A]-5B-30A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2476	878.6	5	10	2575	886.5	30	10	9820	2355	23.52	23.61	0.09
2A-5A-5A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2450	874	5	10	2600	889	66	20	66536	2120	23.52	22.98	-0.54
[2A]-5A-5A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2450	874	5	10	2600	889	66	20	66536	2120	23.52	22.92	-0.6
[2A]-5A-5A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2450	874	5	10	2600	889	66	20	66536	2120	23.52	23.05	-0.47
2A-5B-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2476	878.6	5	10	2575	886.5	66	20	66536	2120	23.52	23.05	-0.47
[2A]-5B-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2476	878.6	5	10	2575	886.5	66	20	66536	2120	23.52	23.06	-0.46
[2A]-5B-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2476	878.6	5	10	2575	886.5	66	20	66536	2120	23.52	23.13	-0.39
2A-5A-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	30	10	9820	2355	66	20	67036	2170	23.52	23.51	-0.01
[2A]-5A-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	30	10	9820	2355	66	20	67036	2170	23.52	23.59	0.07
[2A]-5A-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	30	10	9820	2355	66	20	67036	2170	23.52	23.55	0.03
2A-5A-[48A]-48A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	48	20	56640	5690	23.52	23.09	-0.43
[2A]-5A-48A-48A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	48	20	56640	5690	23.52	22.94	-0.58
[2A]-5A-[48A]-48A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	48	20	56640	5690	23.52	23.12	-0.4
[2A]-5A-[48A]-48A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	48	20	56640	5690	23.52	23.15	-0.37
2A-5A-[48C]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	48	20	55538	3579.8	23.52	23.25	-0.27
[2A]-5A-48C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	48	20	55538	3579.8	23.52	23.26	-0.26
2A-5A-48A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	66	20	66536	2120	23.52	23.28	-0.24
2A-5A-[48A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	66	20	66536	2120	23.52	23.27	-0.25
[2A]-5A-48A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	66	20	66536	2120	23.52	23.23	-0.29
2A-5A-[48A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	66	20	66536	2120	23.52	23.24	-0.28
[2A]-5A-48A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	66	20	66536	2120	23.52	23.31	-0.21
[2A]-5A-[48A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	66	20	66536	2120	23.52	23.35	-0.17
2A-5A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	66	20	66536	2120	66	20	67036	2170	23.52	23.36	-0.16
[2A]-5A-66A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	66	20	66536	2120	66	20	67036	2170	23.52	23.25	-0.27
2A-5A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	66	20	66536	2120	66	20	67036	2170	23.52	23.27	-0.25
[2A]-5A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	66	20	66536	2120	66	20	67036	2170	23.52	23.31	-0.21
2A-5A-[66B]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	66	15	66786	2145	66	5	66879	2154.3	23.52	23.	

Combination	Band	BW	PCC				Modulation	RB	offset	SCC				SCC				SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency				Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with 12 CA Enabled (dBm)	
[2A]-7C-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	7	20	3152	2660.2	66	20	66536	2120	23.52	23.28	-0.24
2A-7C-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	7	20	3152	2660.2	66	20	66536	2120	23.52	23.41	-0.11
[2A]-7C-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	7	20	3152	2660.2	66	20	66536	2120	23.52	23.38	-0.14
[2A]-7A-12B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	12	5	5035	731.5	12	10	5107	738.7	23.52	23.49	-0.03
2A-7A-12A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	12	10	5095	737.5	66	20	67036	2170	23.52	23.31	-0.21
[2A]-7A-12A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	12	10	5095	737.5	66	20	67036	2170	23.52	23.33	-0.19
[2A]-7A-12A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	12	10	5095	737.5	66	20	67036	2170	23.52	23.39	-0.13
2A-7A-29A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	29	10	9715	722.5	66	20	66536	2120	23.52	23.27	-0.25
[2A]-7A-29A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	29	10	9715	722.5	66	20	66536	2120	23.52	23.28	-0.24
[2A]-7A-29A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	29	10	9715	722.5	66	20	66536	2120	23.52	23.3	-0.22
2A-7A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	66	20	66536	2120	66	20	67036	2170	23.52	23.16	-0.36
[2A]-7A-66A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	66	20	66536	2120	66	20	67036	2170	23.52	23.14	-0.38
[2A]-7A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	66	20	66536	2120	66	20	67036	2170	23.52	23.16	-0.36
2A-7A-[66A]-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	20	3350	2680	66	20	66536	2120	66	20	67036	2170	23.52	23.17	-0.35
2A-12B-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	5	5035	731.5	12	10	5107	738.7	66	20	66536	2120	23.52	23.15	-0.37
[2A]-12B-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	5	5035	731.5	12	10	5107	738.7	66	20	66536	2120	23.52	23.27	-0.25
[2A]-12B-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	5	5035	731.5	12	10	5107	738.7	66	20	66536	2120	23.52	23.29	-0.23
2A-12A-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	67036	2170	23.52	23.42	-0.1
[2A]-12A-30A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	67036	2170	23.52	23.37	-0.15
[2A]-12A-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	67036	2170	23.52	23.44	-0.08
2A-12A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	10	5095	737.5	66	20	66536	2120	66	20	67036	2170	23.52	23.22	-0.3
[2A]-12A-66A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	10	5095	737.5	66	20	66536	2120	66	20	67036	2170	23.52	23.2	-0.32
2A-12A-[66A]-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	10	5095	737.5	66	20	66536	2120	66	20	67036	2170	23.52	23.17	-0.35
[2A]-12A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	10	5095	737.5	66	20	66536	2120	66	20	67036	2170	23.52	23.23	-0.29
2A-12A-[66C]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	10	5095	737.5	66	20	66786	2145	66	20	66984	2164.8	23.52	23.26	-0.26
[2A]-12A-66C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	12	10	5095	737.5	66	20	66786	2145	66	20	66984	2164.8	23.52	23.15	-0.37
2A-13A-[48A]-48A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	5690	23.52	23.19	-0.33
[2A]-13A-48A-48A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	5690	23.52	23.18	-0.34
2A-13A-[48A]-[48A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	5690	23.52	23.24	-0.28
[2A]-13A-[48A]-48A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	5690	23.52	23.21	-0.31
2A-13A-[48C]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	55538	3579.8	23.52	23.25	-0.27
[2A]-13A-48C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	55538	3579.8	23.52	23.27	-0.25
2A-13A-48A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	66	20	67036	2170	23.52	23.36	-0.16
2A-13A-[48A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	66	20	67036	2170	23.52	23.38	-0.14
[2A]-13A-48A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	66	20	67036	2170	23.52	23.36	-0.16
2A-13A-[48A]-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	66	20	67036	2170	23.52	23.39	-0.13
[2A]-13A-48A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	66	20	67036	2170	23.52	23.35	-0.17
2A-13A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	66	20	66536	2120	66	20	67036	2170	23.52	23.33	-0.19
[2A]-13A-66A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	66	20	66536	2120	66	20	67036	2170	23.52	23.24	-0.28
[2A]-13A-66A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	66	20	66536	2120	66	20	67036	2170	23.52	23.57	0.05
2A-13A-[66A]-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	66	20	66536	2120	66	20	67036	2170	23.52	23.18	-0.34
[2A]-13A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	66	20	66536	2120	66	20	67036	2170	23.52	23.31	-0.21
2A-13A-[66B]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	66	15	66786	2145	66	5	66879	2154.3	23.52	23.19	-0.33
[2A]-13A-66B	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	66	15	66786	2145	66	5	66879	2154.3	23.52	23.26	-0.26
2A-13A-[66C]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	66	20	66786	2145	66	20	66984	2164.8	23.52	23.22	-0.3
[2A]-13A-66C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	66	20	66786	2145	66	20	66984	2164.8	23.52	23.25	-0.27
2A-14A-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	67036	2170	23.52	23.53	0.01
[2A]-14A-30A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	67036	2170	23.52	23.52	0
[2A]-14A-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	67036	2170	23.52	23.49	-0.03

Combination	Band	BW	PCC					Modulation	RB	offset	SCC				SCC				SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Band				BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with CA Enable (dBm)		
2A-14A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	14	10	5330	763	66	20	66536	2120	66	20	67036	2170	23.52	22.95	-0.57	
[2A]-14A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	14	10	5330	763	66	20	66536	2120	66	20	67036	2170	23.52	22.92	-0.6	
2A-14A-[66A]-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	14	10	5330	763	66	20	66536	2120	66	20	67036	2170	23.52	22.91	-0.61	
[2A]-14A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	14	10	5330	763	66	20	66536	2120	66	20	67036	2170	23.52	22.89	-0.63	
2A-29A-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	29	10	9715	722.5	30	10	9820	2355	66	20	67036	2170	23.52	23.48	-0.04	
[2A]-29A-30A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	29	10	9715	722.5	30	10	9820	2355	66	20	67036	2170	23.52	23.46	-0.06	
[2A]-29A-30A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	29	10	9715	722.5	30	10	9820	2355	66	20	67036	2170	23.52	23.5	-0.02	
2A-30A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	30	10	9820	2355	66	20	66536	2120	66	20	67036	2170	23.52	23.48	-0.04	
[2A]-30A-66A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	30	10	9820	2355	66	20	66536	2120	66	20	67036	2170	23.52	23.46	-0.06	
2A-30A-[66A]-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	30	10	9820	2355	66	20	66536	2120	66	20	67036	2170	23.52	23.51	-0.01	
[2A]-30A-[66A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	30	10	9820	2355	66	20	66536	2120	66	20	67036	2170	23.52	23.49	-0.03	
2A-48A-[48C]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	56442	3670.2	48	20	56640	3690	23.52	23.38	-0.14	
2A-[48A]-48C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	56442	3670.2	48	20	56640	3690	23.52	23.37	-0.15	
[2A]-[48A]-48C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	56442	3670.2	48	20	56640	3690	23.52	23.34	-0.18	
[2A]-48D	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	23.52	23.27	-0.25	
2A-48A-48A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	56640	5690	66	20	67036	2170	23.52	23.29	-0.23	
[2A]-48A-48A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	56640	5690	66	20	67036	2170	23.52	23.31	-0.21	
[2A]-48A-48A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	56640	5690	66	20	67036	2170	23.52	23.39	-0.13	
[2A]-48A-48A-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	56640	5690	66	20	67036	2170	23.52	23.36	-0.16	
2A-[48A]-[48A]-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	56640	5690	66	20	67036	2170	23.52	23.34	-0.18	
[2A]-[48A]-48A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	55340	3560	48	20	56640	5690	66	20	67036	2170	23.52	23.41	-0.11	
2A-48C-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	5340	3560	48	20	55538	3577.1	66	20	67036	2170	23.52	23.31	-0.21	
[2A]-48C-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	5340	3560	48	20	55538	3577.1	66	20	67036	2170	23.52	23.34	-0.18	
[2A]-48C-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	5340	3560	48	20	55538	3577.1	66	20	67036	2170	23.52	23.29	-0.23	
[2A]-48C-[66A]	2	5	18625	1852.5	625	1932.5	QPSK	1	12	48	20	5340	3560	48	20	55538	3577.1	66	20	67036	2170	23.52	23.27	-0.25	
2A-66A-[66A]-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	66	20	66536	2120	66	20	67036	2170	71	10	68636	622	23.52	23.15	-0.37	
2A-[66A]-66A-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	66	20	66536	2120	66	20	67036	2170	71	10	68636	622	23.52	23.51	-0.01	
[2A]-66A-66A-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	66	20	66536	2120	66	20	67036	2170	71	10	68636	622	23.52	23.49	-0.03	
2A-[66A]-[66A]-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	66	20	66536	2120	66	20	67036	2170	71	10	68636	622	23.52	23.52	0	
[2A]-66A-[66A]-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	66	20	66536	2120	66	20	67036	2170	71	10	68636	622	23.52	23.53	0.01	
[2A]-[66A]-66A-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	66	20	66536	2120	66	20	67036	2170	71	10	68636	622	23.52	23.55	0.03	
2A-[66C]-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	66	20	66786	2145	66	20	66984	2164.8	71	10	68636	622	23.52	23.47	-0.05	
[2A]-66C-71A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	66	20	66786	2145	66	20	66984	2164.8	71	10	68636	622	23.52	23.21	-0.31	
4A-[2A]-2A-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	23.92	23.54	-0.38	
[4A]-2A-2A-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	23.92	23.56	-0.36	
4A-[2A]-[2A]-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	23.92	23.52	-0.4	
[4A]-[2A]-2A-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	23.92	23.62	-0.3	
4A-[2A]-2A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	12	10	5095	737.5	23.92	23.55	-0.37	
[4A]-2A-2A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	12	10	5095	737.5	23.92	23.59	-0.33	
4A-[2A]-[2A]-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	12	10	5095	737.5	23.92	23.56	-0.36	
[4A]-[2A]-2A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	12	10	5095	737.5	23.92	23.59	-0.33	
4A-[2A]-2A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	71	10	68636	622	23.92	23.6	-0.32	
[4A]-2A-2A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	71	10	68636	622	23.92	23.62	-0.3	
4A-[2A]-[2A]-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	71	10	68636	622	23.92	23.66	-0.26	
[4A]-[2A]-2A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	2	20	1100	1980	71	10	68636	622	23.92	23.63	-0.29	
4A-[2A]-5B	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	5	10	2476	878.6	5	10	2575	886.5	23.92	23.52	-0.4	
[4A]-2A-5B	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	5	10	2476	878.6	5	10	2575	886.5	23.92	23.54	-0.38	
4A-[2A]-5B	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	5	10	2476	878.6	5	10	2575	886.5	23.92	23.6	-0.32	
[4A]-2A-5A-30A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	5	10	2525	881.5	30	10	9820	2355	23.92	23.8	-0.12	
4A-[2A]-5A-30A	4	15	20325	1747.5	2325	2147.5	QPSK	1	0	2	20	700	1940	5	10	2525	881.5	30	10	9820	2355	23.92	23.75	-0.17	
[																									

Combination	Band	BW	PCC						Modulation	RB	offset	SCC				SCC				SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency						Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with CA (dBm)	
4A-[2A]-12B	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	2	20	700	1940	12	5	5035	731.5	12	10	5107	738.7	23.92	23.62		-0.3
[4A]-2A-12B	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	2	20	700	1940	12	5	5035	731.5	12	10	5107	738.7	23.92	23.59		-0.33
[4A]-[2A]-12B	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	2	20	700	1940	12	5	5035	731.5	12	10	5107	738.7	23.92	23.61		-0.31
[4A]-2A-12A-30A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	2	20	700	1940	12	10	5095	737.5	30	10	9820	2355	23.92	23.58		-0.34
4A-[2A]-12A-30A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	2	20	700	1940	12	10	5095	737.5	30	10	9820	2355	23.92	23.49		-0.43
[4A]-[2A]-12A-30A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	2	20	700	1940	12	10	5095	737.5	30	10	9820	2355	23.92	23.52		-0.4
4A-[2A]-29A-30A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	2	20	700	1940	29	10	9715	722.5	30	10	9820	2355	23.92	23.6		-0.32
[4A]-2A-29A-30A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	2	20	700	1940	29	10	9715	722.5	30	10	9820	2355	23.92	23.59		-0.33
[4A]-[2A]-29A-30A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	2	20	700	1940	29	10	9715	722.5	30	10	9820	2355	23.92	23.6		-0.32
4A-4A-[2A]-2A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	2	20	1100	1980	23.92	23.51		-0.41
[4A]-4A-2A-2A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	2	20	1100	1980	23.92	23.65		-0.27
[4A]-4A-2A-2A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	2	20	1100	1980	23.92	23.53		-0.39
4A-4A-[2A]-[2A]	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	2	20	1100	1980	23.92	23.56		-0.36
4A-[4A]-[2A]-2A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	2	20	1100	1980	23.92	23.54		-0.38
[4A]-4A-[2A]-2A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	2	20	1100	1980	23.92	23.56		-0.36
[4A]-[4A]-2A-2A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	2	20	1100	1980	23.92	23.56		-0.36
4A-4A-[2A]-5A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	5	10	2525	881.5	23.92	23.58		-0.34
4A-[4A]-2A-5A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	5	10	2525	881.5	23.92	23.62		-0.3
[4A]-4A-2A-5A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	5	10	2525	881.5	23.92	23.57		-0.35
4A-[4A]-[2A]-5A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	5	10	2525	881.5	23.92	23.6		-0.32
[4A]-4A-[2A]-5A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	5	10	2525	881.5	23.92	23.59		-0.33
[4A]-[4A]-2A-5A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	5	10	2525	881.5	23.92	23.56		-0.36
4A-4A-[2A]-12A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	12	10	5095	737.5	23.92	23.68		-0.24
4A-[4A]-2A-12A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	12	10	5095	737.5	23.92	23.61		-0.31
[4A]-[4A]-2A-12A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	12	10	5095	737.5	23.92	23.67		-0.25
4A-[4A]-[2A]-12A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	12	10	5095	737.5	23.92	23.64		-0.28
[4A]-[4A]-2A-12A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	12	10	5095	737.5	23.92	23.63		-0.29
[4A]-[4A]-2A-12A	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	2	20	700	1940	12	10	5095	737.5	23.92	23.61		-0.31
4A-[4A]-5B	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	5	10	2476	878.6	5	10	2575	886.5	23.92	23.64		-0.28
[4A]-4A-5B	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	5	10	2476	878.6	5	10	2575	886.5	23.92	23.61		-0.31
[4A]-[4A]-5B	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	5	10	2476	878.6	5	10	2575	886.5	23.92	23.59		-0.33
4A-[4A]-12B	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	12	5	5035	731.5	12	10	5107	738.7	23.92	23.59		-0.33
[4A]-4A-12B	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	12	5	5035	731.5	12	10	5107	738.7	23.92	23.58		-0.34
[4A]-[4A]-12B	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	4	20	2050	2120	12	5	5035	731.5	12	10	5107	738.7	23.92	23.59		-0.33
[4A]-4B	4	15	20325	1747.5	2325	2147.5		QPSK	1	0	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	23.92	23.68		-0.24
5A-2A-2A-[4A]	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.39	24.17		-0.22
5A-[2A]-2A-4A	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.39	24.2		-0.19
5A-[2A]-2A-[4A]	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.39	24.19		-0.2
5A-[2A]-[2A]-4A	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.39	24.19		-0.2
5A-[2A]-2A-30A	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.39	24.12		-0.27
5A-[2A]-[2A]-30A	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.39	24.12		-0.31
5A-2A-2A-[66A]	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.39	24.18		-0.21
5A-[2A]-2A-[66A]	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.39	24.12		-0.19
5A-[2A]-[2A]-[66A]	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.39	24.2		-0.2
5A-[2A]-[2A]-66A	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.39	24.18		-0.21
5A-[2A]-[4A]-4A	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.39	24.18		-0.21
5A-[2A]-[4A]-4A	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	4	10	2350	2150	24.39	24.16		-0.23
5A-2A-[4A]-[4A]	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	4	10	2350	2150	24.39	24.19		-0.2
5A-[2A]-[4A]-4A	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	4	10	2350	2150	24.39	24.17		-0.22
5A-[2A]-[4A]-30A	5	5	20425	826.5	2425	871.5		QPSK	1	0	2	20	900	1960	4	20	2									

Combination	PCC									SCC				SCC				SCC				Tx Power		Deviation
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL-CA Enabled (dBm)	
5A-2A-[48C]	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	48	20	55340	3560	48	20	55538	3579.8	24.39	24.01	-0.38
5A-[2A]-48C	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	48	20	55340	3560	48	20	55538	3579.8	24.39	24.06	-0.33
5A-2A-48A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	48	20	55340	3560	66	20	66536	2120	24.39	24.1	-0.29
5A-2A-[48A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	48	20	55340	3560	66	20	66536	2120	24.39	24.06	-0.33
5A-[2A]-48A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	48	20	55340	3560	66	20	66536	2120	24.39	24.11	-0.28
5A-2A-[48A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	48	20	55340	3560	66	20	66536	2120	24.39	24.08	-0.31
5A-[2A]-48A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	48	20	55340	3560	66	20	66536	2120	24.39	24.06	-0.33
5A-2A-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.39	24.19	-0.2
5A-[2A]-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.39	24.16	-0.23
5A-2A-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.39	24.15	-0.24
5A-[2A]-66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	66	15	66786	2145	66	5	66879	2154.3	24.39	24.17	-0.22
5A-2A-[66B]	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66984	2164.8	24.39	24.16	-0.23
5A-[2A]-66C	5	5	20425	826.5	2425	871.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66984	2164.8	24.39	24.27	-0.12
5B-2A-[4A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	2	20	900	1960	4	20	2175	2132.5	24.39	24.21	-0.18
5B-[2A]-4A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	2	20	900	1960	4	20	2175	2132.5	24.39	24.18	-0.21
5B-[2A]-[4A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	2	20	900	1960	4	20	2175	2132.5	24.39	24.22	-0.17
5B-[2A]-30A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	2	20	900	1960	30	10	9820	2355	24.39	24.17	-0.22
5A-5A-2A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2600	889	2	20	1100	1980	66	20	66786	2145	24.39	24.12	-0.27
5A-5A-[2A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2600	889	2	20	1100	1980	66	20	66786	2145	24.39	24.21	-0.18
5A-5A-[2A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2600	889	2	20	1100	1980	66	20	66786	2145	24.39	24.18	-0.21
5B-2A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	2	20	900	1960	66	20	66786	2145	24.39	24.18	-0.21
5B-[2A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	2	20	900	1960	66	20	66786	2145	24.39	24.2	-0.19
5B-[2A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	2	20	900	1960	66	20	66786	2145	24.39	24.21	-0.18
5B-[4A]-4A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	4	20	2175	2132.5	4	10	2350	2150	24.39	24.17	-0.22
5B-[4A]-[4A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	4	20	2175	2132.5	4	10	2350	2150	24.39	24.18	-0.21
5B-30A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	30	10	9820	2355	66	20	66786	2145	24.39	24.17	-0.22
5A-5A-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2600	889	66	20	66786	2145	66	20	67236	2190	24.39	24.17	-0.22
5A-5A-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2600	889	66	20	66786	2145	66	20	67236	2190	24.39	24.18	-0.21
5A-5A-[66B]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2600	889	66	15	66786	2145	66	5	66879	2154.3	24.39	24.17	-0.22
5A-5A-[66C]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2600	889	66	20	66786	2145	66	20	66984	2164.8	24.39	24.2	-0.19
5B-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	66	20	66786	2145	66	20	67236	2190	24.39	24.19	-0.2
5B-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	66	20	66786	2145	66	20	67236	2190	24.39	24.2	-0.19
5B-[66B]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	66	15	66786	2145	66	5	66879	2154.3	24.39	24.17	-0.22
5B-[66C]	5	5	20425	826.5	2425	871.5	QPSK	1	0	5	10	2497	878.7	66	20	66786	2145	66	20	66984	2164.8	24.39	24.19	-0.2
5A-30A-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.39	24.13	-0.26
5A-30A-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.39	24.11	-0.28
5A-48A-[48C]	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	56207	3646.7	48	20	55340	3560	48	20	55538	3579.8	24.39	24.11	-0.28
5A-[48A]-48C	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	56207	3646.7	48	20	55340	3560	48	20	55538	3579.8	24.39	24.06	-0.33
5A-48A-48A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	55340	3560	48	20	56640	3690	66	20	66786	2145	24.39	24.07	-0.32
5A-[48A]-48A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	55340	3560	48	20	56640	3690	66	20	66786	2145	24.39	24.11	-0.28
5A-[48A]-48A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	55340	3560	48	20	56640	3690	66	20	66786	2145	24.39	24.16	-0.23
5A-[48A]-[48A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	55340	3560	48	20	56640	3690	66	20	66786	2145	24.39	24.08	-0.31
5A-48C-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	55340	3560	48	20	55340	3560	66	20	66536	2120	24.39	24.01	-0.38
5A-[48C]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	0	48	20	55340	3560	48	20	55538	3579.8	66	20	66536	2120	24.39	24.08	-0.31

Combination	Band	BW	PCC				Modulation	RB	offset	SCC				SCC				SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency				Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA (dBm)	
7A-2A-[2A]-12A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.51	24.11	-0.4
7A-[2A]-2A-12A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.51	24.15	-0.36
7A-[2A]-[2A]-12A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.51	24.08	-0.43
7A-2A-2A-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.51	24.1	-0.41
7A-2A-[2A]-66A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.51	24.13	-0.38
7A-[2A]-2A-66A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.51	24.07	-0.44
7A-2A-[2A]-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.51	24.1	-0.41
7A-[2A]-2A-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.51	24.14	-0.37
7A-[2A]-[2A]-66A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.51	24.16	-0.35
7A-2A-[4A]-12A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	4	20	2175	2132.5	12	10	5095	737.5	24.51	24.1	-0.41
7A-[2A]-4A-12A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	4	20	2175	2132.5	12	10	5095	737.5	24.51	24.08	-0.43
7A-[2A]-[4A]-12A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	4	20	2175	2132.5	12	10	5095	737.5	24.51	24.07	-0.44
7A-[2A]-12B	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	12	5	5035	731.5	12	10	5107	738.7	24.51	24.11	-0.4
7A-2A-12A-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	12	10	5095	737.5	66	20	66786	2145	24.51	24.06	-0.45
7A-[2A]-12A-66A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	12	10	5095	737.5	66	20	66786	2145	24.51	24.03	-0.48
7A-[2A]-12A-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	12	10	5095	737.5	66	20	66786	2145	24.51	24.09	-0.42
7A-[2A]-29A-66A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	29	10	9715	722.5	66	20	66786	2145	24.51	24.06	-0.45
7A-2A-29A-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	29	10	9715	722.5	66	20	66786	2145	24.51	24.07	-0.44
7A-[2A]-29A-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	29	10	9715	722.5	66	20	66786	2145	24.51	24.1	-0.41
7A-2A-[66A]-66A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.51	24.14	-0.37
7A-[2A]-66A-66A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.51	24.15	-0.36
7A-[2A]-[66A]-66A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.51	24.18	-0.33
7A-2A-[66A]-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.51	24.2	-0.31
7A-7A-2A-[4A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	2	20	900	1960	4	20	2175	2132.5	24.51	24.07	-0.44
7A-7A-[2A]-4A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	2	20	900	1960	4	20	2175	2132.5	24.51	24.1	-0.41
7A-7A-[2A]-[4A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	2	20	900	1960	4	20	2175	2132.5	24.51	24.08	-0.43
7C-2A-[4A]	7	10	21400	2565	3400	2685	QPSK	1	24	7	20	3256	2670.6	2	20	900	1960	4	20	2175	2132.5	24.48	24.19	-0.29
7C-[2A]-4A	7	10	21400	2565	3400	2685	QPSK	1	24	7	20	3256	2670.6	2	20	900	1960	4	20	2175	2132.5	24.48	24.2	-0.28
7C-[2A]-[4A]	7	10	21400	2565	3400	2685	QPSK	1	24	7	20	3256	2670.6	2	20	900	1960	4	20	2175	2132.5	24.48	24.26	-0.22
7A-7A-2A-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	2	20	900	1960	66	20	66786	2145	24.51	24.08	-0.43
7A-7A-[2A]-66A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	2	20	900	1960	66	20	66786	2145	24.51	24.05	-0.46
7A-7A-[2A]-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	2	20	900	1960	66	20	66786	2145	24.51	24.09	-0.42
7C-[2A]-66A	7	10	21400	2565	3400	2685	QPSK	1	24	7	20	3256	2670.6	2	20	900	1960	66	20	66786	2145	24.48	24.06	-0.42
7C-2A-[66A]	7	10	21400	2565	3400	2685	QPSK	1	24	7	20	3256	2670.6	2	20	900	1960	66	20	66786	2145	24.48	24.11	-0.37
7C-[2A]-[66A]	7	10	21400	2565	3400	2685	QPSK	1	24	7	20	3256	2670.6	2	20	900	1960	66	20	66786	2145	24.48	24.03	-0.45
7A-7A-29A-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	29	10	9715	722.5	66	20	66786	2145	24.51	24.07	-0.44
7C-29A-[66A]	7	10	21400	2565	3400	2685	QPSK	1	24	7	20	3256	2670.6	29	10	9715	722.5	66	20	66786	2145	24.48	24.08	-0.4
7A-7A-[66A]-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	66	20	66786	2145	66	20	67236	2190	24.51	24.1	-0.41
7A-7A-[66A]-66A	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	66	20	66786	2145	66	20	67236	2190	24.51	24.13	-0.38
7A-7A-[66A]-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	7	20	2850	2630	66	20	66786	2145	66	20	67236	2190	24.51	24.04	-0.47
7C-[66A]-66A	7	10	21400	2565	3400	2685	QPSK	1	24	7	20	3256	2670.6	66	20	66786	2145	66	20	67236	2190	24.48	24.05	-0.43
7C-[66A]-[66A]	7	10	21400	2565	3400	2685	QPSK	1	24	7	20	3256	2670.6	66	20	66786	2145	66	20	67236	2190	24.48	24.06	-0.42
7A-12B-[66A]	7	5	21425	2567.5	3425	2687.5	QPSK	1	12	12	5	5035	731.5	12	10	5107	738.7	66	20	66786	2145	24.51	24.26	-0.25
12A-2A-2A-[4A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.82	24.41	-0.41
12A-[2A]-2A-4A	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.82	24.42	-0.4

Combination	Band	BW	PCC					Modulation	RB	offset	SCC				SCC				SCC				Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Band				BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA Enable (dBm)		
12A-[2A]-2A-[4A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.82	24.38	-0.44	
12A-[2A]-[2A]-4A	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.82	24.31	-0.51	
12A-2A-[2A]-7A	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	7	20	3100	2655	24.82	24.21	-0.61	
12A-[2A]-2A-7A	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	7	20	3100	2655	24.82	24.27	-0.55	
12A-[2A]-[2A]-7A	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	7	20	3100	2655	24.82	24.25	-0.57	
12A-[2A]-2A-30A	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.82	24.46	-0.36	
12A-[2A]-[2A]-30A	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.82	24.47	-0.35	
12A-2A-2A-[66A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.82	24.32	-0.5	
12A-2A-2A-[66A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.82	24.3	-0.52	
12A-[2A]-2A-[66A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.82	24.34	-0.48	
12A-[2A]-[2A]-[66A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.82	24.3	-0.52	
12A-2A-[4A]-4A	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	4	10	2350	2150	24.82	24.31	-0.51	
12A-[2A]-4A-4A	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	4	10	2350	2150	24.82	24.3	-0.52	
12A-2A-[4A]-[4A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	4	10	2350	2150	24.82	24.32	-0.5	
12A-[2A]-[4A]-4A	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	4	20	2175	2132.5	4	10	2350	2150	24.82	24.33	-0.49	
12A-2A-30A-[66A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	30	10	9820	2355	66	20	66786	2145	24.82	24.36	-0.46	
12A-[2A]-30A-[66A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	30	10	9820	2355	66	20	66786	2145	24.82	24.37	-0.45	
12A-[2A]-[30A]-[66A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	30	10	9820	2355	66	20	66786	2145	24.82	24.41	-0.41	
12A-2A-[66A]-66A	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.82	24.52	-0.3	
12A-[2A]-66A-[66A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.82	24.6	-0.22	
12A-2A-[66A]-[66A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.82	24.33	-0.49	
12A-[2A]-[66A]-[66A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.82	24.32	-0.5	
12A-2A-[66C]	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66984	2164.8	24.82	24.32	-0.5	
12A-[2A]-66C	12	10	23095	707.5	5095	737.5	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66984	2164.8	24.82	24.33	-0.49	
12B-[2A]-2A	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	2	20	900	1960	2	20	1100	1980	24.45	24.15	-0.3	
12B-[2A]-[2A]	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	2	20	900	1960	2	20	1100	1980	24.45	24.16	-0.29	
12B-2A-[4A]	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	2	20	900	1960	4	20	2175	2132.5	24.45	24.17	-0.28	
12B-[2A]-4A	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	2	20	900	1960	4	20	2175	2132.5	24.45	24.2	-0.25	
12B-[2A]-[4A]	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	2	20	900	1960	4	20	2175	2132.5	24.45	24.18	-0.27	
12B-[2A]-7A	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	2	20	900	1960	7	20	3100	2655	24.45	24.16	-0.29	
12B-2A-[66A]	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	2	20	900	1960	66	20	66786	2145	24.45	24.2	-0.25	
12B-[2A]-66A	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	2	20	900	1960	66	20	66786	2145	24.45	24.22	-0.23	
12B-[2A]-[66A]	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	2	20	900	1960	66	20	66786	2145	24.45	24.19	-0.26	
12B-[4A]-4A	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	4	20	2175	2132.5	4	10	2350	2150	24.45	24.18	-0.27	
12B-[4A]-[4A]	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	4	20	2175	2132.5	4	10	2350	2150	24.45	24.15	-0.3	
12B-66A-[66A]	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	66	20	66786	2145	66	20	67236	2190	24.45	24.16	-0.29	
12B-[66A]-66A	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	66	20	66786	2145	66	20	67236	2190	24.45	24.14	-0.31	
12B-[66A]-[66A]	12	5	23035	701.5	5035	731.5	QPSK	1	0	12	10	5107	738.7	66	20	66786	2145	66	20	67236	2190	24.45	24.17	-0.28	
12A-30A-[66A]-66A	12	10	23095	707.5	5095	737.5	QPSK	1	0	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.82	24.35	-0.47	
12A-30A-[66A]-[66A]	12	10	23095	707.5	5095	737.5	QPSK	1	0	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.82	24.3	-0.52	
13A-2A-2A-[66A]	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.36	23.86	-0.5	
13A-[2A]-2A-66A	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.36	23.87	-0.49	
13A-[2A]-2A-[66A]	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.36	23.88	-0.48	
13A-[2A]-[2A]-[66A]	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.36	23.87	-0.49	
13A-[2A]-7A-7A	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	7	20	3350	2680	7	20	2850	2630	24.36	24.09	-0.27	
13A-2A-[48A]-48A	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	48	20	55340	3560	48	20	56640	3590	24.36	24.02	-0.34	
13A-[2A]-48A-48A	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	48	20	55340	3560	48	20	56640	3590	24.36	24.06	-0.3	
13A-2A-[48A]-[48A]	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	48	20	55340	3560	48	20	56640	3590	24.36	24.07	-0.29	
13A-[2A]-[48A]-48A	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	48	20	55340	3560	48	20	56640	3590	24.36	24.11	-0.25	
13A-2A-[48C]	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	48	20	55340	3560	48	20	55538	3579.8	24.36	24.18	-0.18	
13A-[2A]-48C	13	10	23230	782	5230	751	QPSK	1	0	2	20	900	1960	48	20	55340	3560	48	20						

Combination	Band	BW	PCC					Modulation	RB	offset	SCC		SCC		SCC		SCC		Tx Power		Deviation			
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Band				BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel		SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with CA Enable(dBm)
13A-48A-[66A]	13	10	23230	782	5230	751	QPSK	1	0	48	20	55340	3560	48	20	56640	5690	66	20	66536	2120	24.36	24.01	-0.35
13A-[48A]-48A-[66A]	13	10	23230	782	5230	751	QPSK	1	0	48	20	55340	3560	48	20	56640	5690	66	20	66536	2120	24.36	23.97	-0.39
13A-[48A]-48A-[66A]	13	10	23230	782	5230	751	QPSK	1	0	48	20	55340	3560	48	20	56640	5690	66	20	66536	2120	24.36	23.95	-0.41
13A-[48A]-[48A]-66A	13	10	23230	782	5230	751	QPSK	1	0	48	20	55340	3560	48	20	56640	5690	66	20	66536	2120	24.36	23.99	-0.37
13A-48C-[66A]	13	10	23230	782	5230	751	QPSK	1	0	48	20	55340	3560	48	20	55538	3579.8	66	20	66536	2120	24.36	24.07	-0.37
13A-[48C]-66A	13	10	23230	782	5230	751	QPSK	1	0	48	20	55340	3560	48	20	55538	3579.8	66	20	66536	2120	24.36	24.03	-0.33
13A-48A-[66B]	13	10	23230	782	5230	751	QPSK	1	0	48	20	55340	3560	66	15	66786	2145	66	5	66879	2154.3	24.36	24.07	-0.29
13A-[48A]-66B	13	10	23230	782	5230	751	QPSK	1	0	48	20	55340	3560	66	15	66786	2145	66	5	66879	2154.3	24.36	24.01	-0.35
13A-48A-[66C]	13	10	23230	782	5230	751	QPSK	1	0	48	20	55340	3560	66	20	66786	2145	66	20	66984	2164.8	24.36	23.99	-0.37
13A-[48A]-66C	13	10	23230	782	5230	751	QPSK	1	0	48	20	55340	3560	66	20	66786	2145	66	20	66984	2164.8	24.36	23.97	-0.39
14A-[2A]-2A-30A	14	10	23330	793	5330	763	QPSK	1	24	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.34	23.87	-0.47
14A-[2A]-[2A]-30A	14	10	23330	793	5330	763	QPSK	1	24	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.34	23.84	-0.5
14A-2A-2A-[66A]	14	10	23330	793	5330	763	QPSK	1	24	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.34	23.86	-0.48
14A-[2A]-2A-[66A]	14	10	23330	793	5330	763	QPSK	1	24	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.34	23.88	-0.46
14A-[2A]-[2A]-66A	14	10	23330	793	5330	763	QPSK	1	24	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.34	23.87	-0.47
14A-2A-30A-[66A]	14	10	23330	793	5330	763	QPSK	1	24	2	20	900	1960	30	10	9820	2355	66	20	66786	2145	24.34	23.88	-0.46
14A-[2A]-30A-[66A]	14	10	23330	793	5330	763	QPSK	1	24	2	20	900	1960	30	10	9820	2355	66	20	66786	2145	24.34	23.95	-0.39
14A-[2A]-30A-[66A]	14	10	23330	793	5330	763	QPSK	1	24	2	20	900	1960	30	10	9820	2355	66	20	66786	2145	24.34	24.02	-0.32
14A-2A-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.34	23.87	-0.47
14A-[2A]-66A-[66A]	14	10	23330	793	5330	763	QPSK	1	24	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.34	23.9	-0.44
14A-2A-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	2	20	900	1960	66	20	66786	2145	66	20	67236	2190	24.34	23.89	-0.45
14A-[2A]-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.34	23.89	-0.45
14A-30A-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.34	24.09	-0.25
25A-25A-[41C]	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	41	20	40620	2593	41	20	40818	2612.8	24.07	23.71	-0.36
25A-[25A]-41C	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	41	20	40620	2593	41	20	40818	2612.8	24.07	23.68	-0.39
[25A]-25A-41C	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	41	20	40620	2593	41	20	40818	2612.8	24.07	23.77	-0.3
[25A]-[25A]-41C	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	25	20	8590	1985	41	20	40620	2593	41	20	40818	2612.8	24.07	23.76	-0.31
25A-26A-[41C]	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	26	15	8865	876.5	41	20	40620	2593	41	20	40818	2612.8	24.07	23.77	-0.3
[25A]-26A-41C	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	26	15	8865	876.5	41	20	40620	2593	41	20	40818	2612.8	24.07	23.75	-0.32
[25A]-41D	25	5	26065	1852.5	8065	1932.5	QPSK	1	0	41	20	40620	2593	41	20	40818	2612.8	41	20	41016	2632.6	24.07	23.82	-0.25
26A-25A-[41C]	26	15	26865	831.5	8865	876.5	QPSK	1	0	25	20	8140	1940	41	20	40620	2593	41	20	40818	2612.8	24.75	24.34	-0.41
26A-[25A]-41C	26	15	26865	831.5	8865	876.5	QPSK	1	0	25	20	8140	1940	41	20	40620	2593	41	20	40818	2612.8	24.75	24.14	-0.61
30A-[2A]-2A-5A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.13	23.83	-0.3
30A-[2A]-[2A]-5A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.13	23.77	-0.36
30A-[2A]-2A-12A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	12	10	5095	737.5	24.13	23.81	-0.32
30A-[2A]-[2A]-12A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	12	10	5095	737.5	24.13	23.82	-0.31
30A-[2A]-2A-14A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	14	10	5330	763	24.13	23.74	-0.39
30A-[2A]-[2A]-14A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	14	10	5330	763	24.13	23.7	-0.43
30A-[2A]-2A-29A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	29	10	9715	722.5	24.13	23.75	-0.38
30A-[2A]-[2A]-29A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	29	10	9715	722.5	24.13	23.77	-0.36
30A-2A-2A-[66A]	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	66	20	66786	2145	24.13	23.8	-0.33
30A-[2A]-2A-[66A]	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	66	20	66786	2145	24.13	23.75	-0.38
30A-[2A]-[2A]-66A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	66	20	66786	2145	24.13	23.78	-0.35
30A-[2A]-[2A]-66A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	700	1940	2	20	1100	1980	66	20	66786	2145	24.13	23.75	-0.38
30A-[2A]-4A-5A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	4	20	2175	2132.5	5	10	2525	881.5	24.13	23.77	-0.36
30A-2A-[4A]-5A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	4	20	2175	2132.5	5	10	2525	881.5	24.13	23.79	-0.34
30A-[2A]-[4A]-5A	30	5	27710	2310	9820	2355	QPSK	1	12	2	20	900	1960	4	20	2175	2132.5	5	10	2525	881.5	24.13	23.8	-0.33
30A-[2A]-4A-12A	30	5	27																					

Combination	Band	BW	PCC					Modulation	RB	offset	SCC					SCC					SCC					Tx Power		Deviation
			PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Band				BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA Enabled (dBm)					
[66A]-2A-2A-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.16	23.6			-0.56		
[66A]-[2A]-[2A]-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.16	23.61			-0.55		
[66A]-[2A]-2A-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.16	23.61			-0.55		
[66A]-[2A]-2A-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.16	23.59			-0.57		
[66A]-2A-2A-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.16	23.87			-0.29		
[66A]-[2A]-[2A]-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.16	23.58			-0.58		
[66A]-[2A]-2A-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.16	23.59			-0.57		
[66A]-2A-2A-14A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	14	10	5330	763	24.16	23.92			-0.24		
[66A]-2A-2A-14A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	14	10	5330	763	24.16	23.94			-0.22		
[66A]-[2A]-[2A]-14A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	14	10	5330	763	24.16	23.94			-0.22		
[66A]-[2A]-2A-14A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	14	10	5330	763	24.16	23.92			-0.54		
[66A]-2A-2A-30A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.16	23.91			-0.25		
[66A]-2A-30A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.16	23.96			-0.2		
[66A]-[2A]-[2A]-30A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.16	23.98			-0.18		
[66A]-[2A]-2A-30A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	30	10	9820	2355	24.16	23.94			-0.22		
[66A]-2A-[2A]-71A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	71	20	68761	6345	24.16	23.56			-0.6		
[66A]-[2A]-2A-71A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	71	20	68761	6345	24.16	23.57			-0.59		
[66A]-2A-7A-71A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	71	20	68761	6345	24.16	23.57			-0.59		
[66A]-[2A]-[2A]-71A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	71	20	68761	6345	24.16	23.58			-0.58		
[66A]-[2A]-[2A]-71A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	71	20	68761	6345	24.16	23.6			-0.56		
[66A]-[2A]-2A-71A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	2	20	1100	1980	71	20	68761	6345	24.16	23.58			-0.58		
[66A]-2A-5A-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	5	5	2625	891.5	24.16	23.96			-0.2		
[66A]-2A-5A-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	5	5	2625	891.5	24.16	23.58			-0.58		
[66A]-[2A]-5A-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	5	5	2625	891.5	24.16	23.57			-0.59		
[66A]-[2A]-5B	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	5	5	2597	888.7	24.16	23.58			-0.58		
[66A]-2A-5B	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	5	5	2597	888.7	24.16	23.56			-0.6		
[66A]-[2A]-5B	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	5	5	2597	888.7	24.16	23.59			-0.57		
[66A]-[2A]-5A-30A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	30	10	9820	2355	24.16	23.93			-0.23		
[66A]-2A-5A-30A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	30	10	9820	2355	24.16	23.83			-0.33		
[66A]-[2A]-5A-30A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	30	10	9820	2355	24.16	23.89			-0.27		
[66A]-2A-5A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	48	20	56207	3646.7	24.16	23.93			-0.23		
[66A]-[2A]-5A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	48	20	56207	3646.7	24.16	24.04			-0.12		
[66A]-2A-5A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	48	20	56207	3646.7	24.16	23.98			-0.18		
[66A]-[2A]-5A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	5	10	2525	881.5	48	20	56207	3646.7	24.16	23.95			-0.21		
[66A]-[2A]-7A-7A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	7	20	3350	2680	24.16	24.03			-0.13		
[66A]-2A-7A-7A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	7	20	3350	2680	24.16	24.1			-0.06		
[66A]-[2A]-7A-7A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	7	20	3350	2680	24.16	24.06			-0.1		
[66A]-2A-7C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	7	20	3298	2674.8	24.16	24			-0.16		
[66A]-[2A]-7C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	7	20	3298	2674.8	24.16	23.93			-0.23		
[66A]-[2A]-7C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	7	20	3298	2674.8	24.16	23.94			-0.22		
[66A]-2A-7A-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	12	10	5095	737.5	24.16	23.89			-0.27		
[66A]-[2A]-7A-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	12	10	5095	737.5	24.16	23.9			-0.26		
[66A]-2A-7A-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	12	10	5095	737.5	24.16	23.87			-0.29		
[66A]-2A-7A-29A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	2	20	900	1960	7	20	3100	2655	29	10	9715	722.5	24.16	23.92			-0.24		
[66A]-[2A]-7A-29A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24																			

PCC											SCC				SCC				SCC				Tx Power		Deviation
Combination	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA Enable(dBm)		
66A-66A-[2C]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	2	20	1098	1979.8	24.16	23.65	-0.51	
66A-[66A]-2C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	2	20	1098	1979.8	24.16	23.68	-0.48	
[66A]-66A-2C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	2	20	1098	1979.8	24.16	23.67	-0.49	
[66A]-[66A]-2C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	2	20	1098	1979.8	24.16	23.7	-0.46	
66B-[2A]-2A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	2	20	900	1960	2	15	1125	1982.5	24.16	23.68	-0.48	
[66B]-2A-2A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	2	20	900	1960	2	15	1125	1982.5	24.16	23.67	-0.49	
66B-[2A]-[2A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	2	20	900	1960	2	15	1125	1982.5	24.16	23.71	-0.45	
66C-[2A]-2A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	2	20	900	1960	2	15	1125	1982.5	24.16	23.71	-0.45	
[66C]-2A-2A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	2	20	900	1960	2	15	1125	1982.5	24.16	23.69	-0.47	
66C-[2A]-[2A]	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	2	20	900	1960	2	15	1125	1982.5	24.16	23.72	-0.44	
66A-66A-[2A]-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	5	10	2525	881.5	24.16	23.66	-0.5	
[66A]-66A-2A-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	5	10	2525	881.5	24.16	23.63	-0.53	
[66A]-66A-2A-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	5	10	2525	881.5	24.16	23.65	-0.51	
66A-[66A]-[2A]-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	5	10	2525	881.5	24.16	23.67	-0.49	
[66A]-66A-[2A]-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	5	10	2525	881.5	24.16	23.67	-0.49	
66B-[2A]-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	2	20	900	1960	5	10	2525	881.5	24.16	23.73	-0.43	
[66B]-2A-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	2	20	900	1960	5	10	2525	881.5	24.16	23.72	-0.44	
66C-[2A]-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	2	20	900	1960	5	10	2525	881.5	24.16	23.72	-0.44	
[66C]-2A-5A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	2	20	900	1960	5	10	2525	881.5	24.16	23.71	-0.45	
66A-66A-[2A]-7A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	7	20	3100	2655	24.16	23.85	-0.31	
66A-[66A]-2A-7A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	7	20	3100	2655	24.16	23.74	-0.42	
[66A]-66A-2A-7A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	7	20	3100	2655	24.16	23.82	-0.34	
66A-[66A]-[2A]-7A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	7	20	3100	2655	24.16	23.76	-0.4	
[66A]-66A-[2A]-7A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	7	20	3100	2655	24.16	23.74	-0.42	
[66A]-66A-[2A]-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	12	10	5095	737.5	24.16	23.76	-0.4	
66A-66A-[2A]-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	12	10	5095	737.5	24.16	23.74	-0.42	
[66A]-66A-[2A]-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	12	10	5095	737.5	24.16	23.76	-0.4	
66A-[66A]-2A-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	12	10	5095	737.5	24.16	23.72	-0.44	
[66A]-66A-[2A]-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	12	10	5095	737.5	24.16	23.73	-0.43	
66C-[2A]-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	2	20	900	1960	12	10	5095	737.5	24.16	23.73	-0.43	
[66C]-2A-12A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	2	20	900	1960	12	10	5095	737.5	24.16	23.94	-0.22	
66A-66A-[2A]-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	13	10	5230	751	24.16	23.95	-0.21	
66A-[66A]-2A-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	13	10	5230	751	24.16	23.87	-0.29	
[66A]-66A-[2A]-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	13	10	5230	751	24.16	24.16	24	-0.16
66A-[66A]-[2A]-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	13	10	5230	751	24.16	23.94	-0.22	
[66A]-66A-[2A]-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	13	10	5230	751	24.16	23.82	-0.34	
[66A]-[66A]-2A-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	13	10	5230	751	24.16	23.66	-0.5	
66B-[2A]-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	2	20	900	1960	13	10	5230	751	24.16	23.92	-0.24	
[66B]-2A-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	2	20	900	1960	13	10	5230	751	24.16	23.98	-0.18	
66C-[2A]-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	2	20	900	1960	13	10	5230	751	24.16	23.91	-0.25	
[66C]-2A-13A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	2	20	900	1960	13	10	5230	751	24.16	23.95	-0.21	
66A-66A-[2A]-14A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	14	10	5330	763	24.16	23.9	-0.26	
[66A]-66A-2A-14A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	14	10	5330	763	24.16	23.92	-0.24	
66A-[66A]-2A-14A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	14	10	5330	763	24.16	23.93	-0.23	
[66A]-66A-[2A]-14A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	14	10	5330	763	24.16	24.05	-0.11	
[66A]-[66A]-2A-14A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	2	20	900	1960	14	10	5330	763	24.16	23.98	-0.1	

PCC											SCC				SCC				SCC				Tx Power		Deviation
Combination	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm)	LTE Tx Power with DL CA (dBm)		
66A-66A-48C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	48	20	56207	3646.7	48	20	56405	3666.5	24.16	23.95	-0.21	
66A-66A-48C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	48	20	56207	3646.7	48	20	56405	3666.5	24.16	23.98	-0.18	
66A-66A-48C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	48	20	56207	3646.7	48	20	56405	3666.5	24.16	23.92	-0.24	
66A-66A-48C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66536	2120	48	20	56207	3646.7	48	20	56405	3666.5	24.16	23.9	-0.26	
66B-48A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	48	20	56207	3646.7	48	20	56640	3690	24.16	24.01	-0.15	
66B-48A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	48	20	56207	3646.7	48	20	56640	3690	24.16	23.99	-0.17	
66B-48A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	48	20	56207	3646.7	48	20	56640	3690	24.16	23.92	-0.24	
66B-48C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	48	20	56207	3646.7	48	20	56405	3666.5	24.16	23.96	-0.2	
66B-48C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	15	67039	2170.3	48	20	56207	3646.7	48	20	56405	3666.5	24.16	23.95	-0.21	
66C-48A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	48	20	56207	3646.7	48	20	56640	3690	24.16	24.08	-0.08	
66C-48A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	48	20	56207	3646.7	48	20	56640	3690	24.16	24.03	-0.13	
66C-48A-48A	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	48	20	56207	3646.7	48	20	56640	3690	24.16	24.05	-0.11	
66C-48C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	48	20	56207	3646.7	48	20	56405	3666.5	24.16	24.07	-0.09	
66C-48C	66	5	132647	1777.5	67111	2177.5	QPSK	1	24	66	20	66994	2165.8	48	20	56207	3646.7	48	20	56405	3666.5	24.16	24.02	-0.14	
71A-2A-2A-4A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.47	24.23	-0.24	
71A-2A-2A-4A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.47	24.22	-0.25	
71A-2A-2A-4A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.47	24.25	-0.22	
71A-2A-2A-4A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	2	20	1100	1980	4	20	2175	2132.5	24.47	24.23	-0.24	
71A-2A-2A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.47	24.22	-0.25	
71A-2A-2A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.47	24.25	-0.22	
71A-2A-2A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.47	24.23	-0.24	
71A-2A-2A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.47	24.21	-0.26	
71A-2A-2A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	2	20	1100	1980	66	20	66786	2145	24.47	24.2	-0.27	
71A-2A-66A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66786	2145	24.47	24.2	-0.27	
71A-2A-66A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66786	2145	24.47	24.22	-0.25	
71A-2A-66A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66786	2145	24.47	24.19	-0.28	
71A-2A-66A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66786	2145	24.47	24.25	-0.22	
71A-2A-66A-66A	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66786	2145	24.47	24.24	-0.23	
71A-2A-66C	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66984	2164.8	24.47	24.24	-0.23	
71A-2A-66C	71	10	133172	668	68636	622	QPSK	1	0	2	20	900	1960	66	20	66786	2145	66	20	66984	2164.8	24.47	24.2	-0.27	
2A-2A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	46	20	50665	5537.5	46	20	50467	5517.7	23.52	23.15	-0.37	
2A-2A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	46	20	50665	5537.5	46	20	50467	5517.7	23.52	23.17	-0.35	
2A-2A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	2	20	1100	1980	46	20	50665	5537.5	46	20	50467	5517.7	23.52	23.15	-0.37	
2A-5A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	5	10	2525	881.5	46	20	50665	5537.5	46	20	50467	5517.7	23.52	23.12	-0.4	
2A-7A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	7	10	18750	2100	46	20	50665	5537.5	46	20	50467	5517.7	23.52	23.3	-0.22	
2A-13A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	13	10	5230	751	46	20	50665	5537.5	46	20	50467	5517.7	23.52	23.12	-0.4	
2A-46A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	46	20	53540	5825	23.52	23.21	-0.31	
2A-46A-46C	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50269	5497.9	23.52	23.24	-0.28	
2A-46C-48A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	48	20	56207	3646.7	23.52	23.11	-0.41	
2A-46C-48A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	48	20	56207	3646.7	23.52	23.13	-0.39	
2A-46C-48A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	48	20	56207	3646.7	23.52	23.15	-0.37	
2A-46A-46A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	47090	5180	66	20	66786	2145	23.52	23.11	-0.41	
2A-46A-46A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	47090	5180	66	20	66786	2145	23.52	23.15	-0.37	
2A-46A-46A-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	47090	5180	66	20	66786	2145	23.52	23.2	-0.32	
2A-46C-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	66	20	66786	2145	23.52	23.11	-0.41	
2A-46C-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467	5517.7	66	20	66786	2145	23.52	23.18	-0.34	
2A-46C-66A	2	5	18625	1852.5	625	1932.5	QPSK	1	12	46	20	50665	5537.5	46	20	50467									