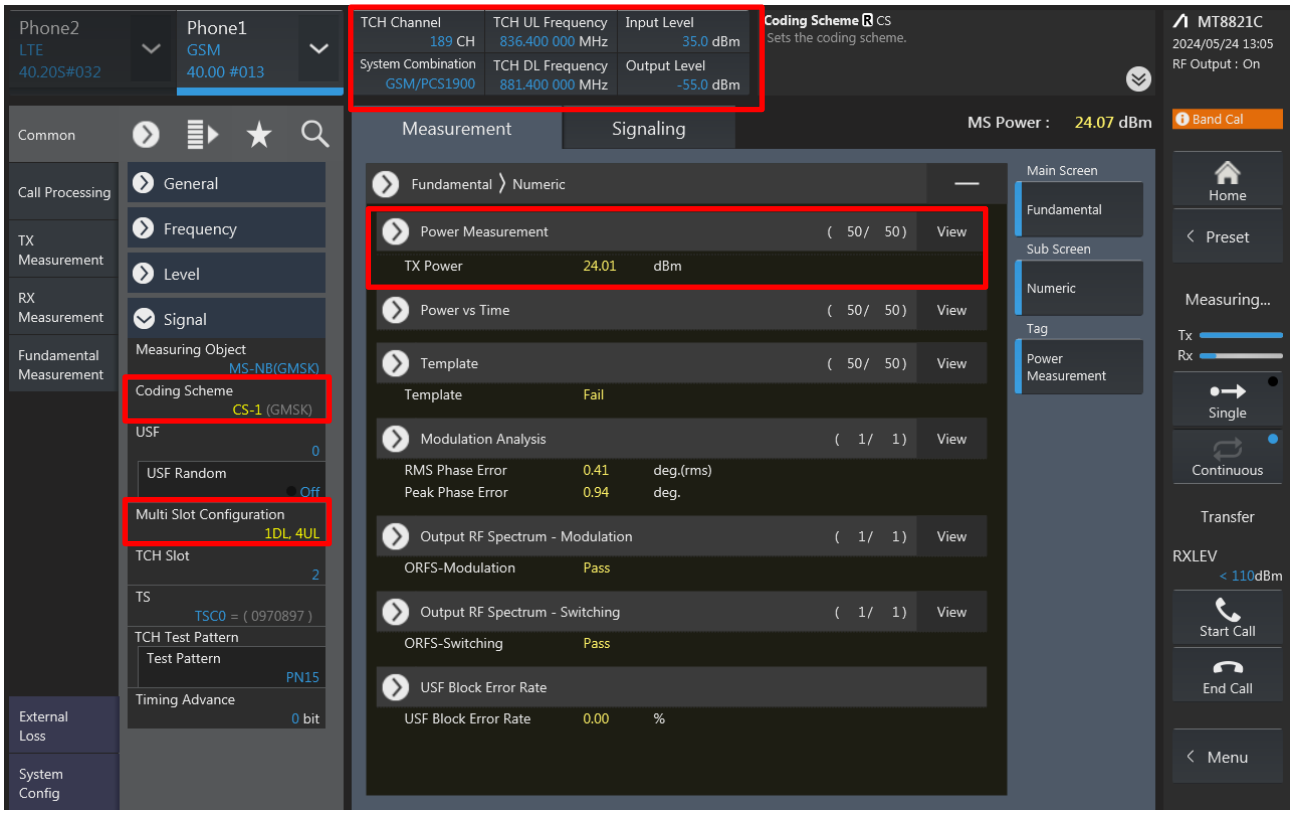
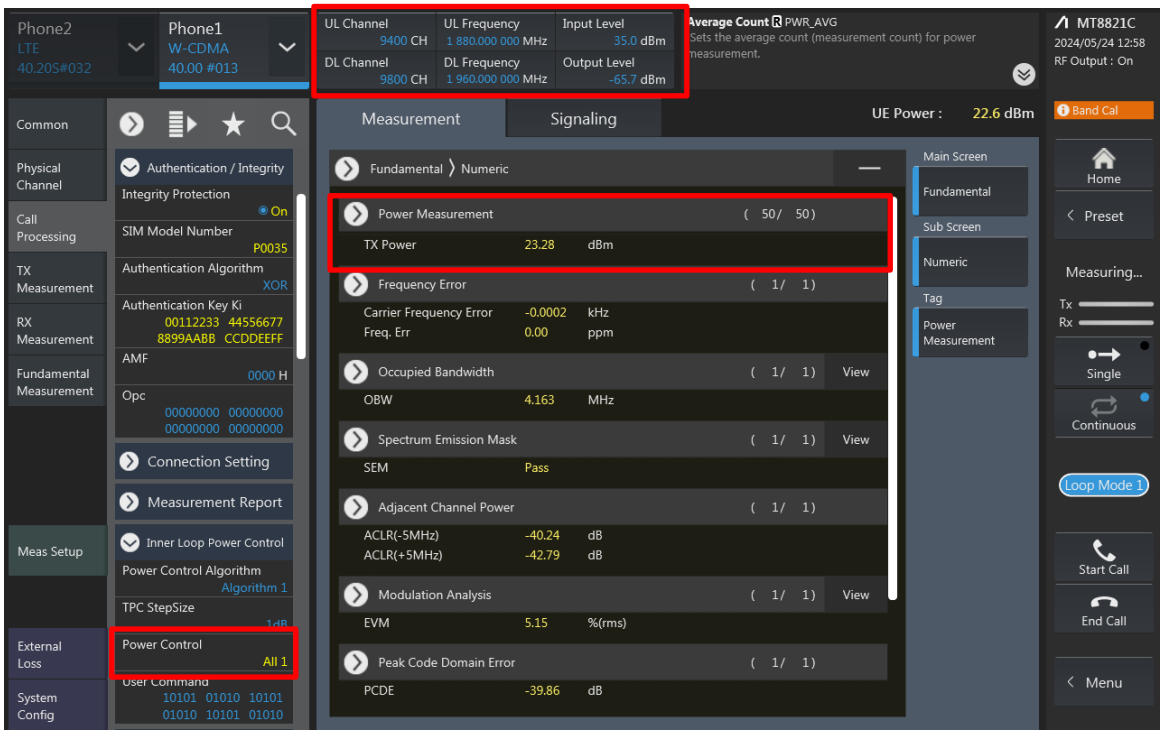
Power measurement connection diagram:

The power measurement for 2G/3G/LTE/5G FR1/UL and DL CA is to establish a connection between device and call box, and via call box to configure Bands, channel, BWs, RB size, carrier aggregation of CA, frequency channels, SCS and maximum output power. Hereunder is screenshot call box connection information for 2G/3G/LTE/5G FR1/UL and DL CA.

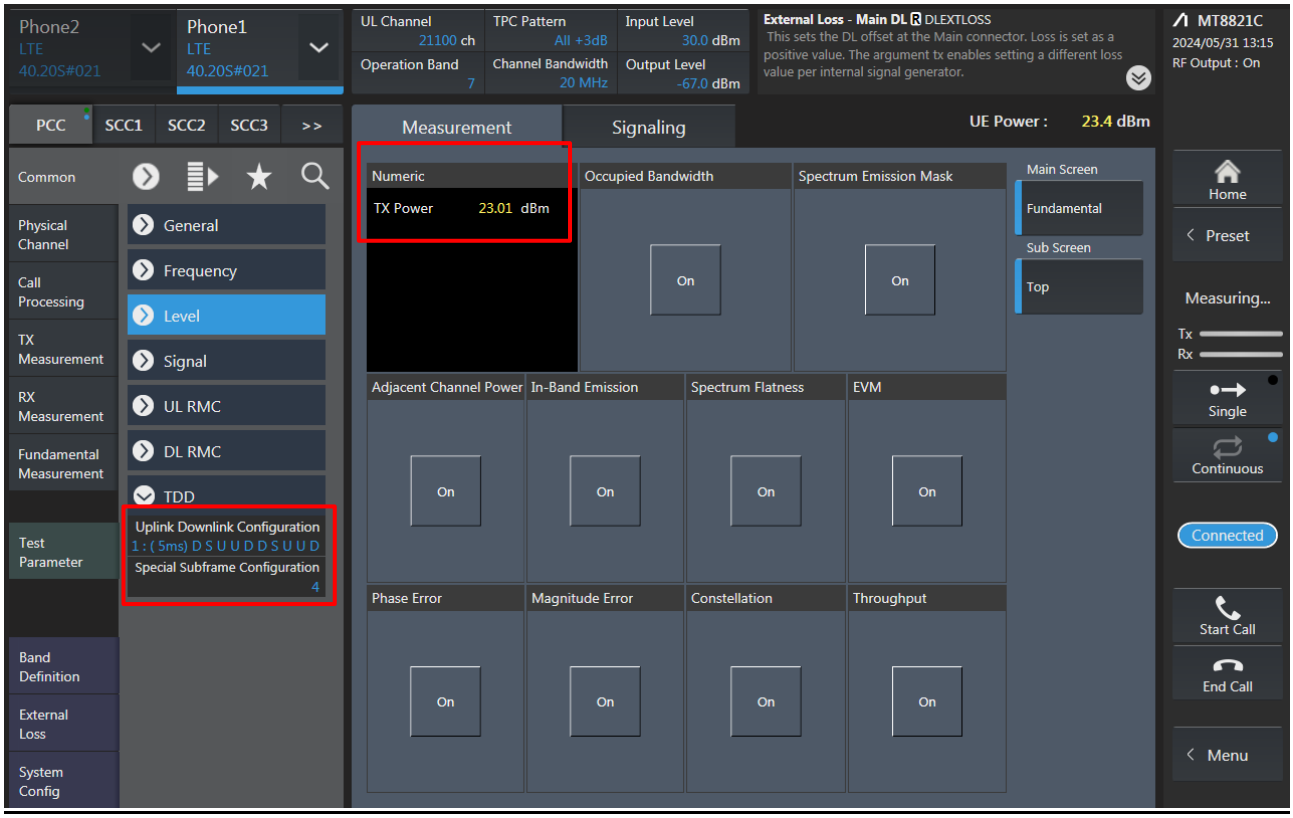
<GSM>



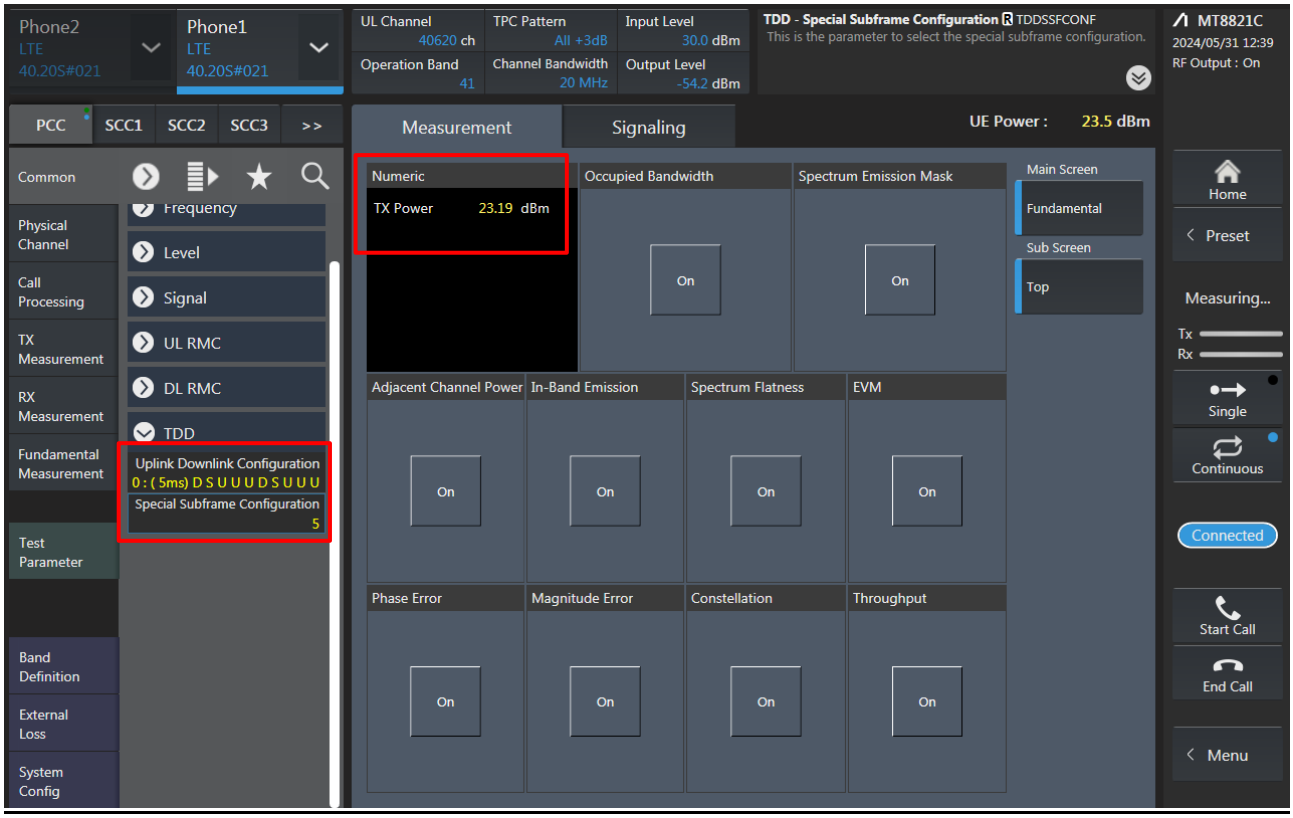
<WCDMA>


Phone2
LTE
40.20S#032
Phone1
W-CDMA
40.00 #013
UL Channel
9400 CH
UL Frequency
1 880.000 000 MHz
Input Level
35.0 dBm
DL Channel
9800 CH
DL Frequency
1 960.000 000 MHz
Output Level
-65.7 dBm
Average Count PWR_AVG
Sets the average count (measurement count) for power measurement.
MT8821C
2024/05/24 12:58
RF Output : On
Band Cal
Measurement
Signaling
UE Power : 22.6 dBm
Common
Physical Channel
Call Processing
TX Measurement
RX Measurement
Fundamental Measurement
Meas Setup
External Loss
System Config
Authentication / Integrity
Integrity Protection
On
SIM Model Number
P0035
Authentication Algorithm
XOR
Authentication Key Ki
00112233 44556677
8899AABB CCDDEEFF
AMF
0000 H
Opc
Connection Setting
Measurement Report
Inner Loop Power Control
Power Control Algorithm
Algorithm 1
TPC StepSize
Power Control
All 1
Fundamental Numeric
Power Measurement (50/ 50)
TX Power 23.28 dBm
Frequency Error (1/ 1)
Carrier Frequency Error -0.0002 kHz
Freq. Err 0.00 ppm
Occupied Bandwidth (1/ 1) View
OBW 4.163 MHz
Spectrum Emission Mask (1/ 1) View
SEM Pass
Adjacent Channel Power (1/ 1)
ACLR(-5MHz) -40.24 dB
ACLR(+5MHz) -42.79 dB
Modulation Analysis (1/ 1) View
EVM 5.15 %(rms)
Peak Code Domain Error (1/ 1)
PCDE -39.86 dB
Main Screen
Fundamental
Sub Screen
Numeric
Tag
Power Measurement
Home
Preset
Measuring...
Tx
Rx
Single
Continuous
Loop Mode 1
Start Call
End Call
Menu

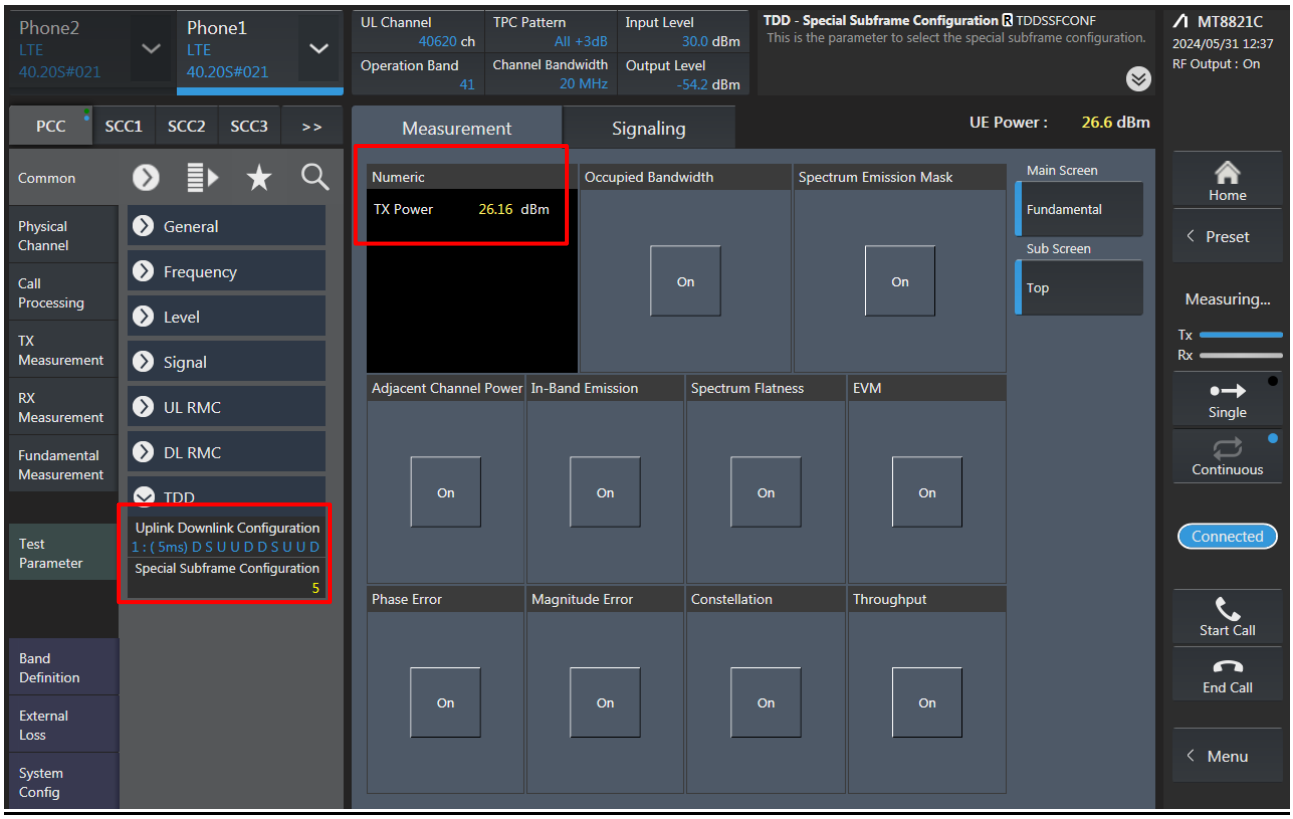
<LTE>

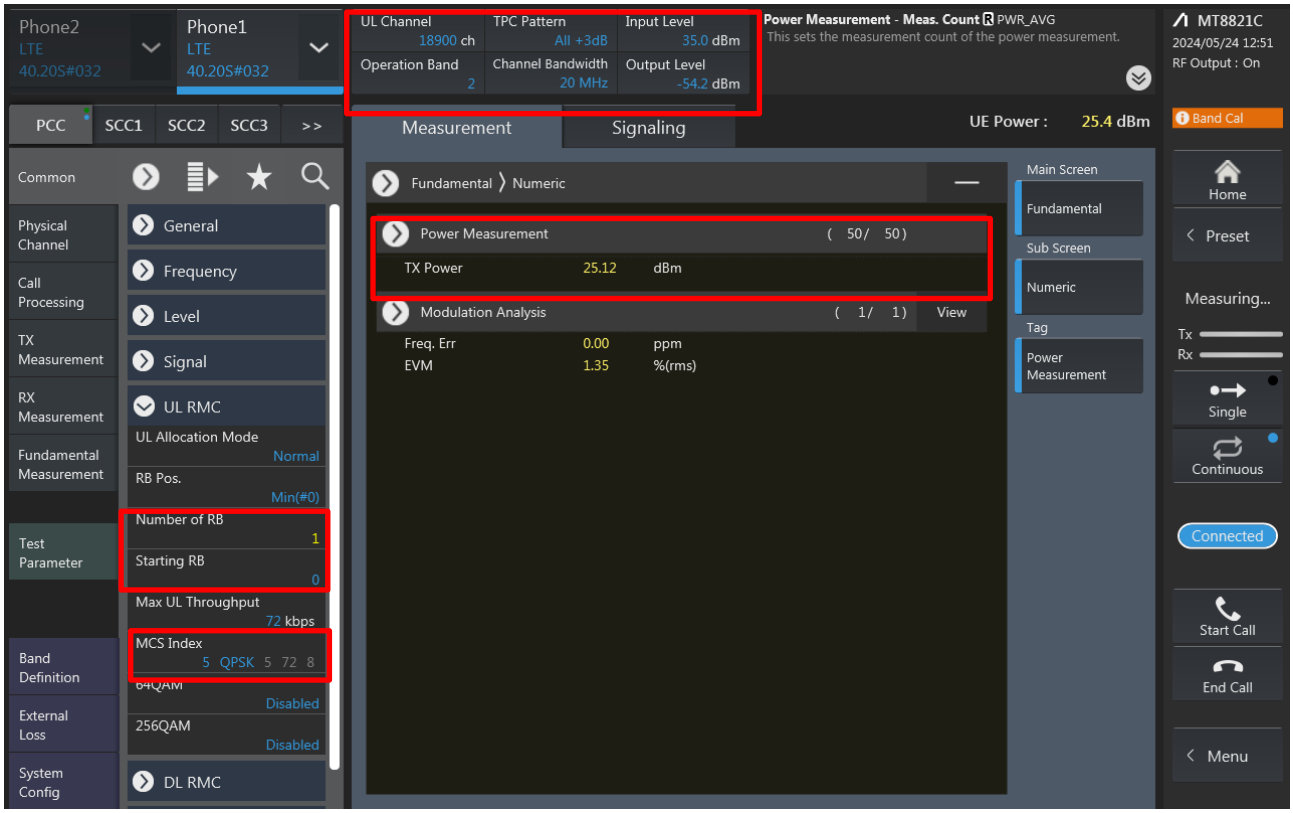

Phone2
LTE
40.20S#021
Phone1
LTE
40.20S#021
UL Channel
21100 ch
TPC Pattern
All +3dB
Input Level
30.0 dBm
Operation Band
7
Channel Bandwidth
20 MHz
Output Level
-67.0 dBm
External Loss - Main DL DLEXTLOSS
This sets the DL offset at the Main connector. Loss is set as a positive value. The argument tx enables setting a different loss value per internal signal generator.
MT8821C
2024/05/31 13:15
RF Output : On
PCC
SCC1
SCC2
SCC3
>>
Measurement
Signaling
UE Power : 23.4 dBm
Common
Physical Channel
Call Processing
TX Measurement
RX Measurement
Fundamental Measurement
Test Parameter
Band Definition
External Loss
System Config
General
Frequency
Level
Signal
UL RMC
DL RMC
TDD
Uplink Downlink Configuration
1 : (5ms) D S U U D D S U U D
Special Subframe Configuration
4
Numeric
TX Power 23.01 dBm
Occupied Bandwidth
Spectrum Emission Mask
Adjacent Channel Power
In-Band Emission
Spectrum Flatness
EVM
Phase Error
Magnitude Error
Constellation
Throughput
On
Main Screen
Fundamental
Sub Screen
Top
Home
Preset
Measuring...
Tx
Rx
Single
Continuous
Connected
Start Call
End Call
Menu

<LTE TDD Power class 3>

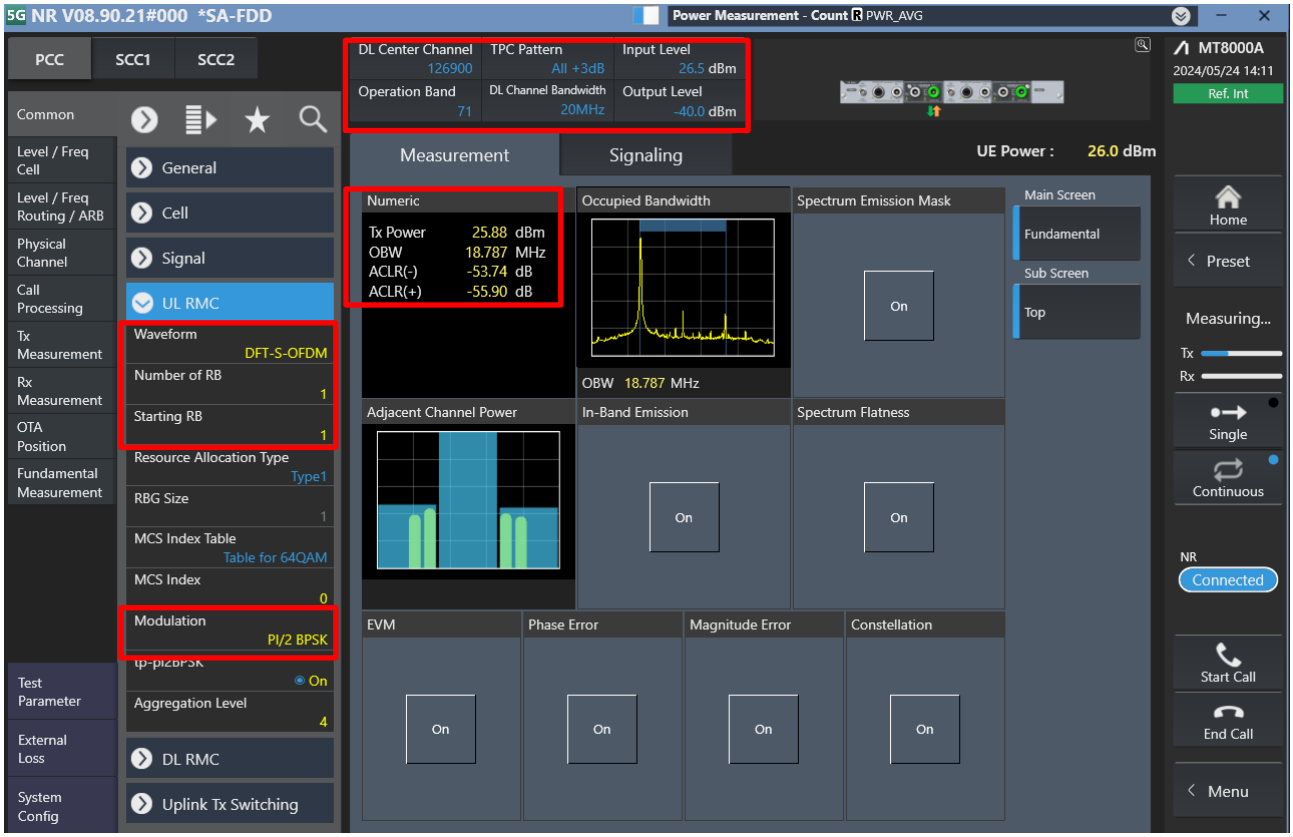


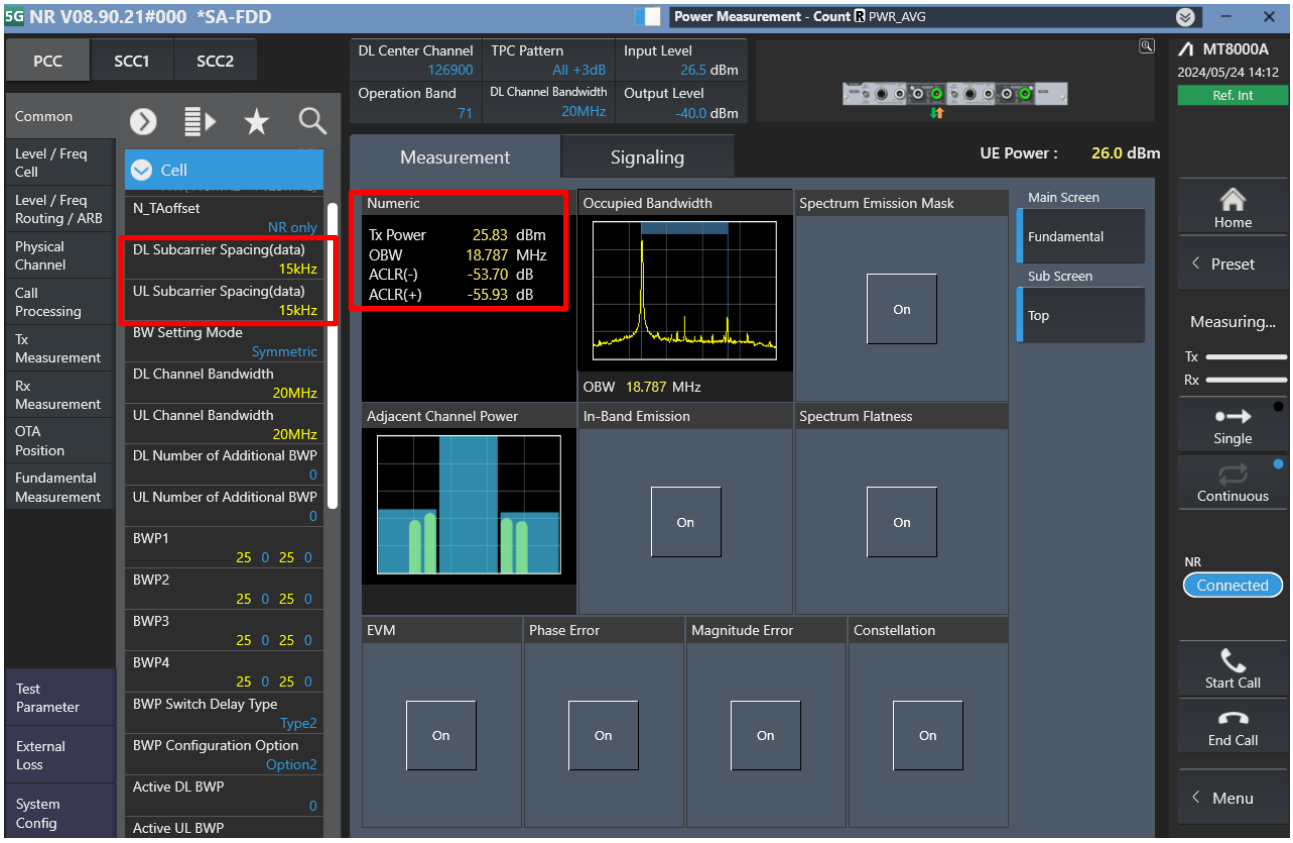
<LTE TDD Power class 2>

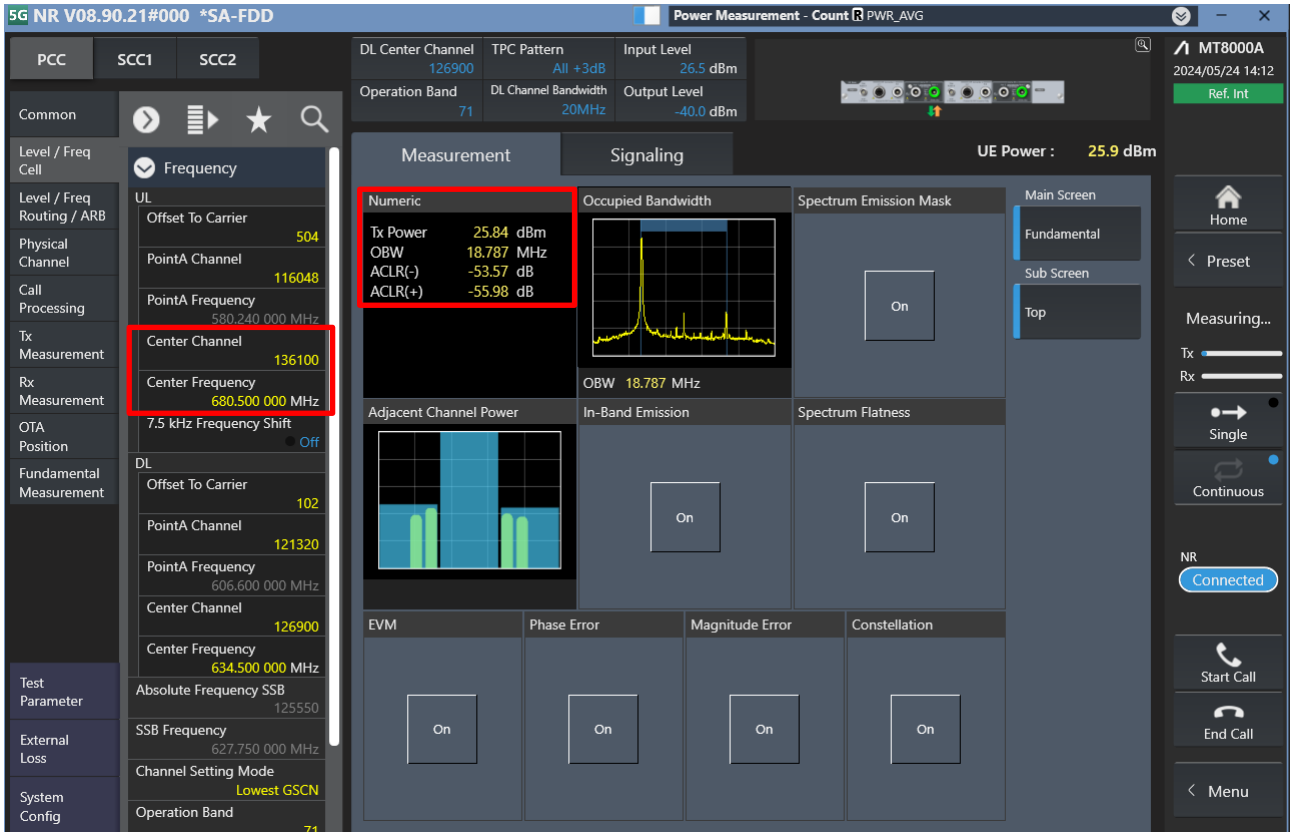



Phone2
LTE
40.20S#032
Phone1
LTE
40.20S#032
UL Channel
18900 ch
TPC Pattern
All +3dB
Input Level
35.0 dBm
Operation Band
2
Channel Bandwidth
20 MHz
Output Level
-54.2 dBm
Power Measurement - Meas. Count PWR_AVG
This sets the measurement count of the power measurement.
MT8821C
2024/05/24 12:51
RF Output : On
PCC
SCC1
SCC2
SCC3
Measurement
Signaling
UE Power : 25.4 dBm
Band Cal
Common
Fundamental Numeric
Power Measurement (50/ 50)
TX Power 25.12 dBm
Modulation Analysis (1/ 1) View
Freq. Err 0.00 ppm
EVM 1.35 %(rms)
Main Screen
Fundamental
Sub Screen
Numeric
Tag
Power Measurement
Physical Channel
Call Processing
TX Measurement
RX Measurement
Fundamental Measurement
Test Parameter
Band Definition
External Loss
System Config
General
Frequency
Level
Signal
UL RMC
UL Allocation Mode
Normal
RB Pos.
Min(#0)
Number of RB
1
Starting RB
0
Max UL Throughput
72 kbps
MCS Index
5 QPSK 5 72 8
64QAM
Disabled
256QAM
Disabled
DL RMC
Home
Preset
Measuring...
Tx
Rx
Single
Continuous
Connected
Start Call
End Call
Menu

<5GNR FR1>

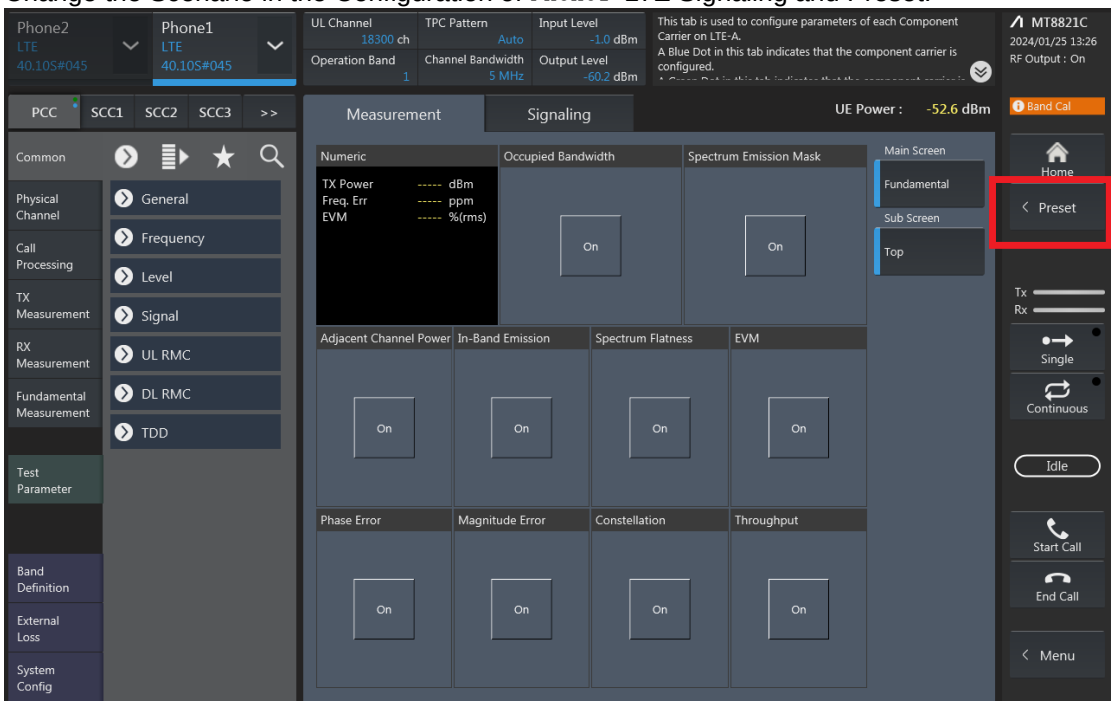

5G NR V08.90.21#000 *SA-FDD
Power Measurement - Count PWR_AVG
PCC
SCC1
SCC2
DL Center Channel
126900
TPC Pattern
All +3dB
Input Level
26.5 dBm
Operation Band
71
DL Channel Bandwidth
20MHz
Output Level
-40.0 dBm
MT8000A
2024/05/24 14:11
Ref. Int
Measurement
Signaling
UE Power : 26.0 dBm
Common
Level / Freq Cell
Level / Freq Routing / ARB
Physical Channel
Call Processing
Tx Measurement
Rx Measurement
OTA Position
Fundamental Measurement
Test Parameter
External Loss
System Config
General
Cell
Signal
UL RMC
Waveform
DFT-S-OFDM
Number of RB
1
Starting RB
1
Resource Allocation Type
Type1
RBG Size
1
MCS Index Table
Table for 64QAM
MCS Index
0
Modulation
PI/2 BPSK
tp-pi2BPSK
On
Aggregation Level
4
DL RMC
Uplink Tx Switching
Numeric
Tx Power 25.88 dBm
OBW 18.787 MHz
ACLR(-) -53.74 dB
ACLR(+) -55.90 dB
Occupied Bandwidth
OBW 18.787 MHz
Spectrum Emission Mask
On
Main Screen
Fundamental
Sub Screen
Top
Adjacent Channel Power
In-Band Emission
On
Spectrum Flatness
On
EVM
Phase Error
Magnitude Error
Constellation
On
Home
Preset
Measuring...
Tx
Rx
Single
Continuous
NR
Connected
Start Call
End Call
Menu


5G NR V08.90.21#000 *SA-FDD
Power Measurement - Count R PWR_AVG
PCC
SCC1
SCC2
DL Center Channel 126900
TPC Pattern All +3dB
Input Level 26.5 dBm
Operation Band 71
DL Channel Bandwidth 20MHz
Output Level -40.0 dBm
MT8000A
2024/05/24 14:12
Ref. Int
Common
Level / Freq Cell
Level / Freq Routing / ARB
Physical Channel
Call Processing
Tx Measurement
Rx Measurement
OTA Position
Fundamental Measurement
Test Parameter
External Loss
System Config
Cell
N_TAoffset
NR only
DL Subcarrier Spacing(data) 15kHz
UL Subcarrier Spacing(data) 15kHz
BW Setting Mode Symmetric
DL Channel Bandwidth 20MHz
UL Channel Bandwidth 20MHz
DL Number of Additional BWP 0
UL Number of Additional BWP 0
BWP1 25 0 25 0
BWP2 25 0 25 0
BWP3 25 0 25 0
BWP4 25 0 25 0
BWP Switch Delay Type Type2
BWP Configuration Option Option2
Active DL BWP 0
Active UL BWP
Measurement
Signaling
UE Power : 26.0 dBm
Numeric
Tx Power 25.83 dBm
OBW 18.787 MHz
ACLR(-) -53.70 dB
ACLR(+) -55.93 dB
Occupied Bandwidth
OBW 18.787 MHz
Spectrum Emission Mask
On
Main Screen
Fundamental
Sub Screen
Top
Adjacent Channel Power
In-Band Emission
On
Spectrum Flatness
On
EVM
Phase Error
Magnitude Error
Constellation
On
On
On
On
Home
Preset
Measuring...
Tx
Rx
Single
Continuous
NR
Connected
Start Call
End Call
Menu

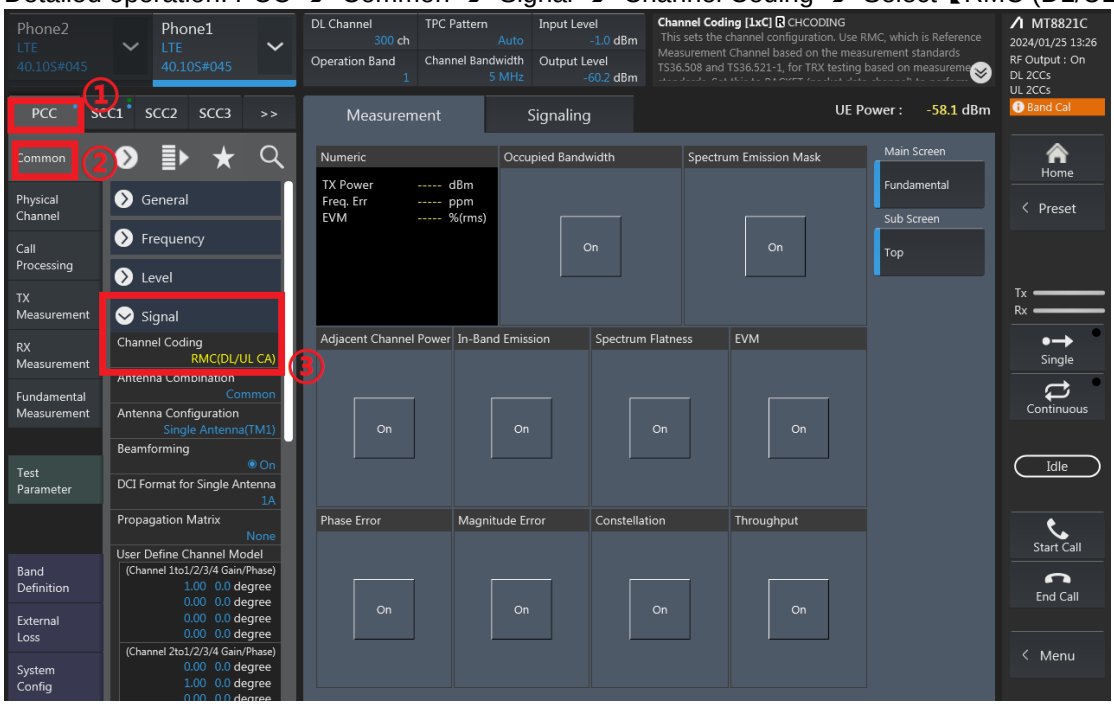

5G NR V08.90.21#000 *SA-FDD
Power Measurement - Count R PWR_AVG
PCC
SCC1
SCC2
DL Center Channel 126900
TPC Pattern All +3dB
Input Level 26.5 dBm
Operation Band 71
DL Channel Bandwidth 20MHz
Output Level -40.0 dBm
MT8000A
2024/05/24 14:12
Ref. Int
Common
Level / Freq Cell
Level / Freq Routing / ARB
Physical Channel
Call Processing
Tx Measurement
Rx Measurement
OTA Position
Fundamental Measurement
Test Parameter
External Loss
System Config
Frequency
UL
Offset To Carrier 504
PointA Channel 116048
PointA Frequency 580.240 000 MHz
Center Channel 136100
Center Frequency 680.500 000 MHz
7.5 kHz Frequency Shift Off
DL
Offset To Carrier 102
PointA Channel 121320
PointA Frequency 606.600 000 MHz
Center Channel 126900
Center Frequency 634.500 000 MHz
Absolute Frequency SSB 125550
SSB Frequency 627.750 000 MHz
Channel Setting Mode Lowest GSCN
Operation Band 71
Measurement
Signaling
UE Power : 25.9 dBm
Numeric
Tx Power 25.84 dBm
OBW 18.787 MHz
ACLR(-) -53.57 dB
ACLR(+) -55.98 dB
Occupied Bandwidth
OBW 18.787 MHz
Spectrum Emission Mask
On
Main Screen
Fundamental
Sub Screen
Top
Adjacent Channel Power
In-Band Emission
On
Spectrum Flatness
On
EVM
Phase Error
Magnitude Error
Constellation
On
On
On
On
Home
Preset
Measuring...
Tx
Rx
Single
Continuous
NR
Connected
Start Call
End Call
Menu

LTE Uplink and Downlink Carrier Aggregation configurations:

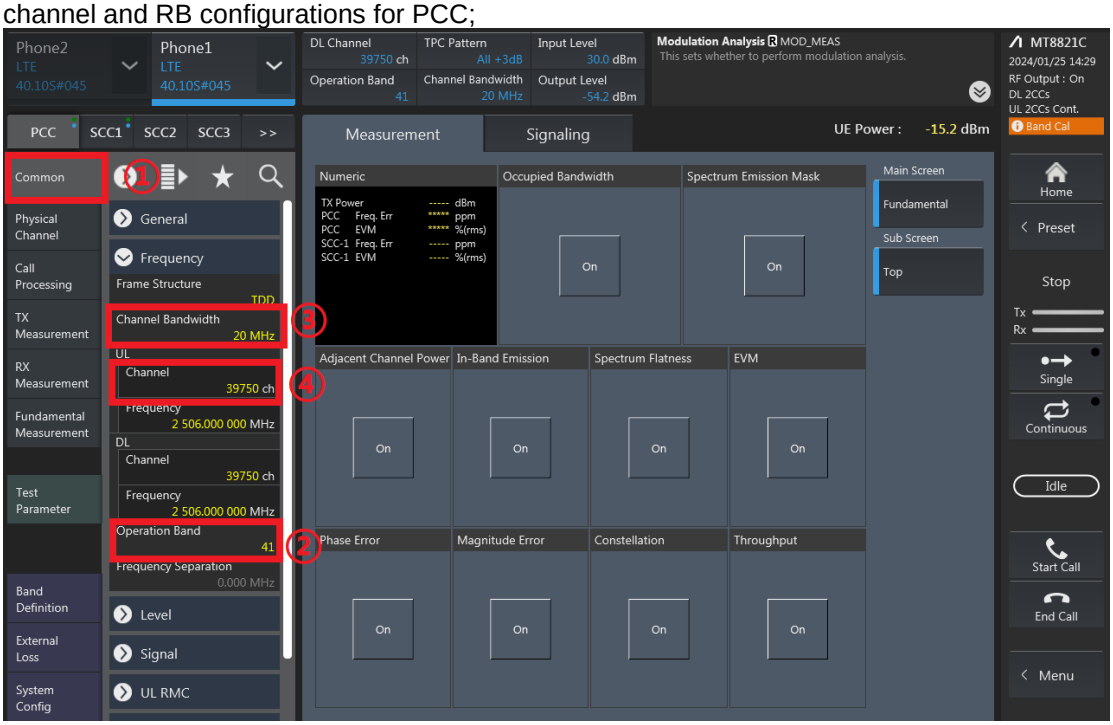
1. Change the Scenario in the Configuration of Phone1 LTE Signaling and Preset.



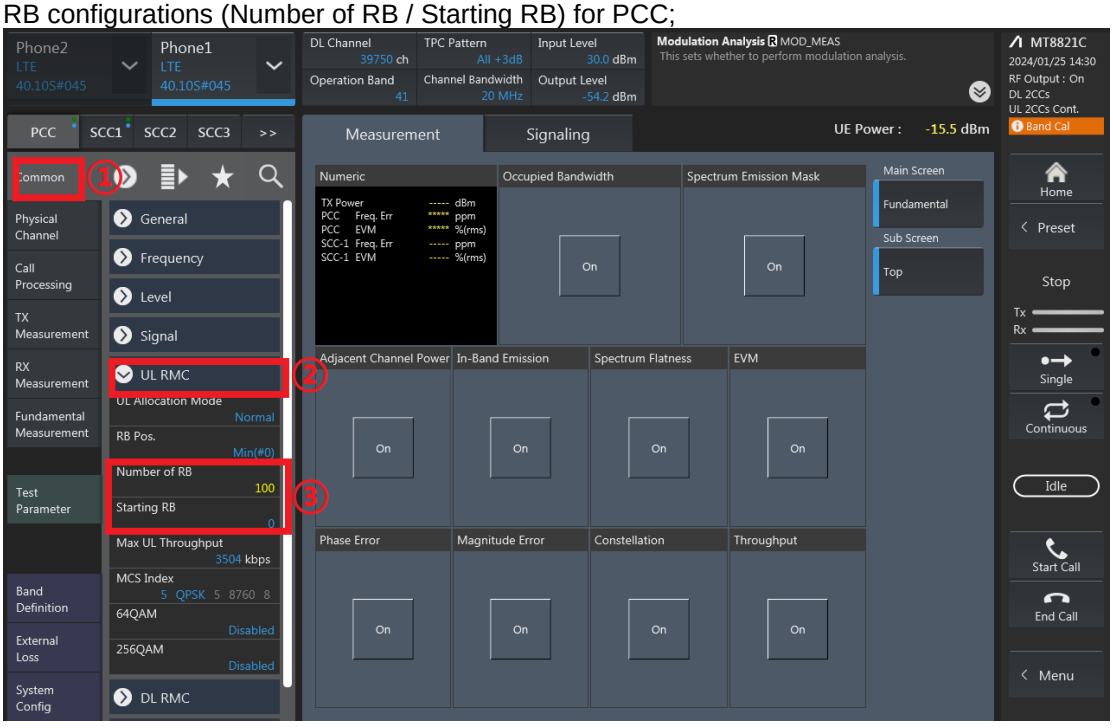
2. If Select “RMC (DL/UL CA)” for Uplink Carrier Aggregation;
If Select “RMC (DL CA)” for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:
Detailed operation: PCC ➔ Common ➔ Signal ➔ Channel Coding ➔ Select【RMC (DL/UL CA)】



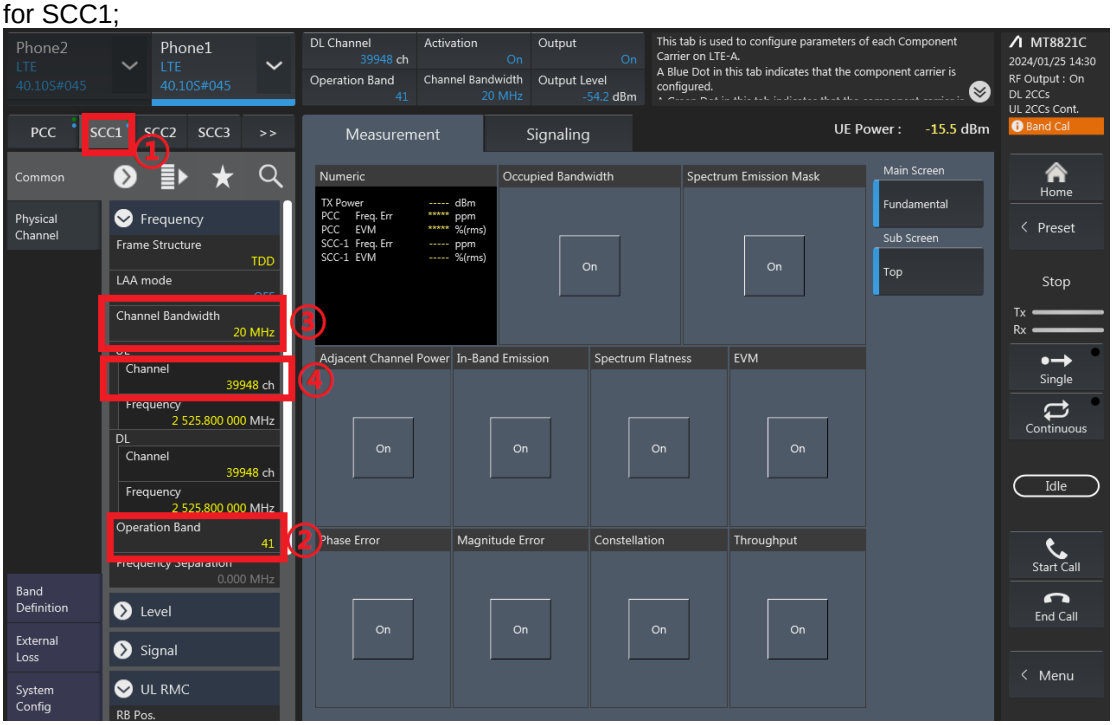
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



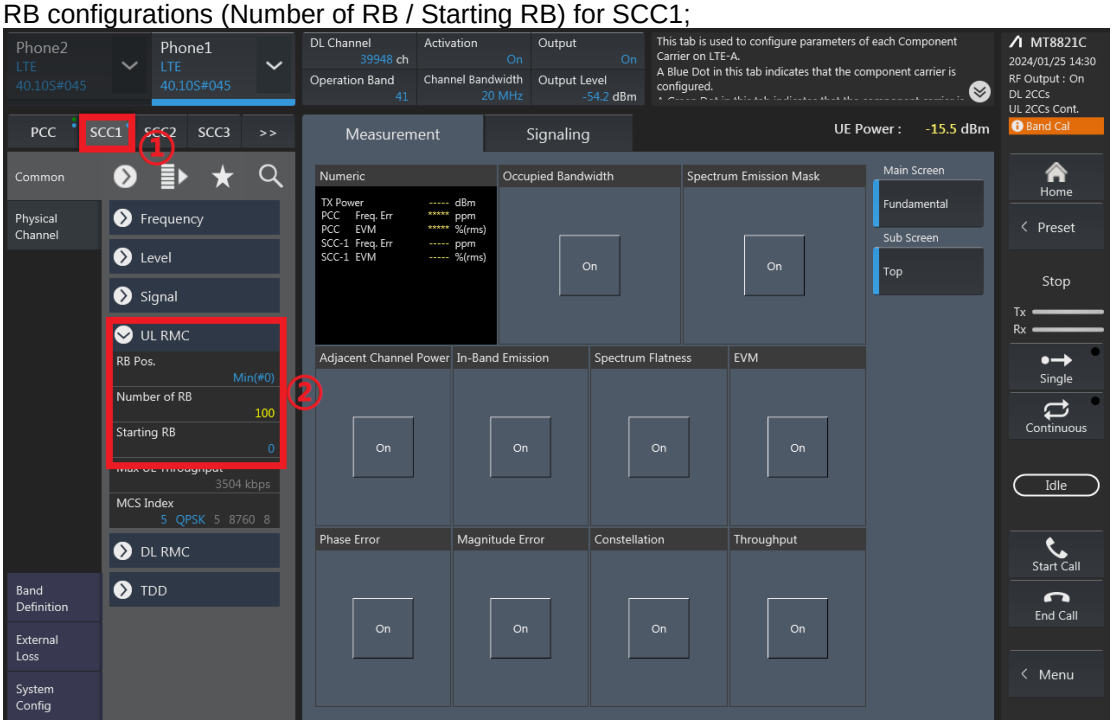
RB configurations (Number of RB / Starting RB) for PCC;



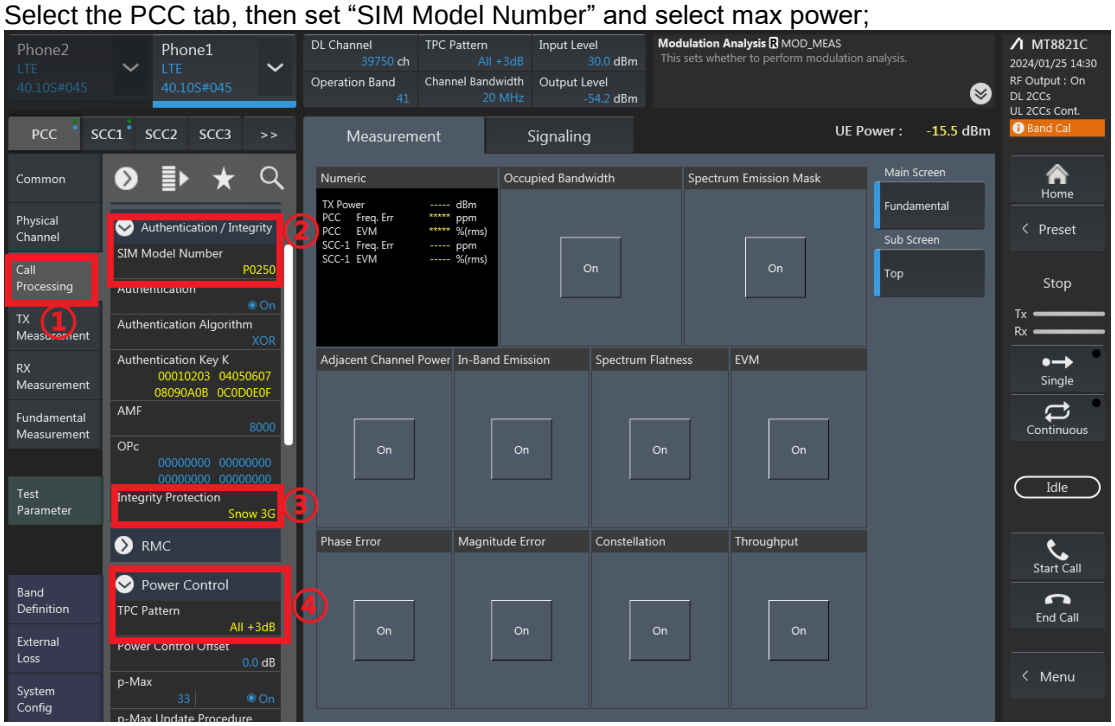
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



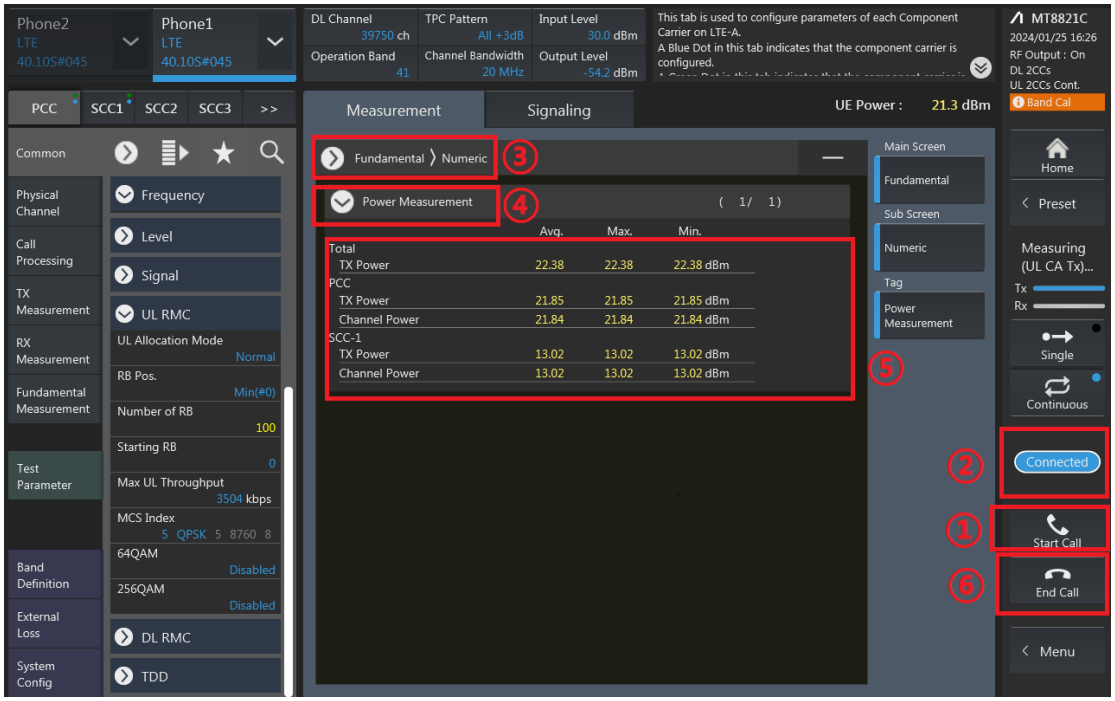
RB configurations (Number of RB / Starting RB) for SCC1;



5. Select the PCC tab, then set “SIM Model Number” and select max power;



6. Click the “Connect” button at the Right of the screen, if necessary, turn the Airplane mode on/off in the DUT



7. The inter-band ULCA test method is similar to intra-band ULCA, and DLCA test method is similar to intra-band ULCA too.

Uplink CA Power

CA_7C_Ant 0 Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full	22.93	23.30
21100	21298	QPSK	1	0	0	0	1	0	Full	22.90	23.30
21350	21152	QPSK	1	0	0	0	1	0	Full	22.95	23.30
20850	21048	QPSK	1	0	0	0	1	0	DSI 4	21.21	21.80
21100	21298	QPSK	1	0	0	0	1	0	DSI 4	21.20	21.80
21350	21152	QPSK	1	0	0	0	1	0	DSI 4	21.24	21.80
20850	21048	QPSK	1	0	0	0	1	0	DSI 5	20.13	20.80
21100	21298	QPSK	1	0	0	0	1	0	DSI 5	20.15	20.80
21350	21152	QPSK	1	0	0	0	1	0	DSI 5	20.18	20.80

CA_66B_Ant 0 Combination 15MHz+5MHz (75RB+25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132047	132140	QPSK	1	0	0	0	1	0	Full	23.42	23.80
132322	132415	QPSK	1	0	0	0	1	0	Full	23.46	23.80
132597	132504	QPSK	1	0	0	0	1	0	Full	23.36	23.80
132047	132140	QPSK	1	0	0	0	1	0	DSI 4	21.77	22.80
132322	132415	QPSK	1	0	0	0	1	0	DSI 4	21.86	22.80
132597	132504	QPSK	1	0	0	0	1	0	DSI 4	21.75	22.80
132047	132140	QPSK	1	0	0	0	1	0	DSI 5	21.77	22.80
132322	132415	QPSK	1	0	0	0	1	0	DSI 5	21.86	22.80
132597	132504	QPSK	1	0	0	0	1	0	DSI 5	21.75	22.80

CA_7C_Ant 5 Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full	23.42	23.80
21100	21298	QPSK	1	0	0	0	1	0	Full	22.45	23.80
21350	21152	QPSK	1	0	0	0	1	0	Full	23.47	23.80
20850	21048	QPSK	1	0	0	0	1	0	DSI 4	22.15	22.80
21100	21298	QPSK	1	0	0	0	1	0	DSI 4	22.18	22.80
21350	21152	QPSK	1	0	0	0	1	0	DSI 4	22.20	22.80
20850	21048	QPSK	1	0	0	0	1	0	DSI 5	22.62	23.30
21100	21298	QPSK	1	0	0	0	1	0	DSI 5	22.66	23.30
21350	21152	QPSK	1	0	0	0	1	0	DSI 5	22.70	23.30

CA_66B_Ant 5 Combination 15MHz+5MHz (75RB+25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132047	132140	QPSK	1	0	0	0	1	0	Full	23.68	24.00
132322	132415	QPSK	1	0	0	0	1	0	Full	23.71	24.00
132597	132504	QPSK	1	0	0	0	1	0	Full	23.66	24.00
132047	132140	QPSK	1	0	0	0	1	0	DSI 4	22.52	23.50
132322	132415	QPSK	1	0	0	0	1	0	DSI 4	22.68	23.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 4	22.54	23.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 5	22.52	23.50
132322	132415	QPSK	1	0	0	0	1	0	DSI 5	22.68	23.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 5	22.54	23.50

CA_66C_Ant 0											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132072	132270	QPSK	1	0	0	0	1	0	Full	23.05	23.80
132322	132520	QPSK	1	0	0	0	1	0	Full	23.12	23.80
132572	132374	QPSK	1	0	0	0	1	0	Full	23.10	23.80
132072	132270	QPSK	1	0	0	0	1	0	DSI 4	21.40	22.80
132322	132520	QPSK	1	0	0	0	1	0	DSI 4	21.48	22.80
132572	132374	QPSK	1	0	0	0	1	0	DSI 4	21.45	22.80
132072	132270	QPSK	1	0	0	0	1	0	DSI 5	21.40	22.80
132322	132520	QPSK	1	0	0	0	1	0	DSI 5	21.48	22.80
132572	132374	QPSK	1	0	0	0	1	0	DSI 5	21.45	22.80

CA_38C_Ant 0											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Full	23.28	23.80
37901	38099	QPSK	1	0	0	0	1	0	Full	23.35	23.80
38150	37952	QPSK	1	0	0	0	1	0	Full	23.25	23.80
37850	38048	QPSK	1	0	0	0	1	0	DSI 4	21.47	22.30
37901	38099	QPSK	1	0	0	0	1	0	DSI 4	21.56	22.30
38150	37952	QPSK	1	0	0	0	1	0	DSI 4	21.49	22.30
37850	38048	QPSK	1	0	0	0	1	0	DSI 5	19.41	20.30
37901	38099	QPSK	1	0	0	0	1	0	DSI 5	19.56	20.30
38150	37952	QPSK	1	0	0	0	1	0	DSI 5	19.44	20.30

CA_66C_Ant 5											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132072	132270	QPSK	1	0	0	0	1	0	Full	23.20	24.00
132322	132520	QPSK	1	0	0	0	1	0	Full	23.25	24.00
132572	132374	QPSK	1	0	0	0	1	0	Full	23.22	24.00
132072	132270	QPSK	1	0	0	0	1	0	DSI 4	22.26	23.50
132322	132520	QPSK	1	0	0	0	1	0	DSI 4	22.37	23.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 4	22.35	23.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 5	22.26	23.50
132322	132520	QPSK	1	0	0	0	1	0	DSI 5	22.37	23.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 5	22.35	23.50

CA_38C_Ant 5											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Full	23.81	24.00
37901	38099	QPSK	1	0	0	0	1	0	Full	23.90	24.00
38150	37952	QPSK	1	0	0	0	1	0	Full	23.86	24.00
37850	38048	QPSK	1	0	0	0	1	0	DSI 4	23.06	23.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 4	23.11	23.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 4	23.02	23.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 5	23.06	23.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 5	23.11	23.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 5	23.02	23.50

CA_41C_Ant 0											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	0	0	0	1	0	Full	23.29	23.80
40185	40383	QPSK	1	0	0	0	1	0	Full	23.46	23.80
40620	40818	QPSK	1	0	0	0	1	0	Full	23.51	23.80
41055	41253	QPSK	1	0	0	0	1	0	Full	23.47	23.80
41490	41292	QPSK	1	0	0	0	1	0	Full	23.48	23.80
39750	39948	QPSK	1	0	0	0	1	0	DSI 4	21.68	22.30
40185	40383	QPSK	1	0	0	0	1	0	DSI 4	21.54	22.30
40620	40818	QPSK	1	0	0	0	1	0	DSI 4	21.71	22.30
41055	41253	QPSK	1	0	0	0	1	0	DSI 4	21.66	22.30
41490	41292	QPSK	1	0	0	0	1	0	DSI 4	21.68	22.30
39750	39948	QPSK	1	0	0	0	1	0	DSI 5	22.77	23.30
40185	40383	QPSK	1	0	0	0	1	0	DSI 5	22.75	23.30
40620	40818	QPSK	1	0	0	0	1	0	DSI 5	22.89	23.30
41055	41253	QPSK	1	0	0	0	1	0	DSI 5	22.76	23.30
41490	41292	QPSK	1	0	0	0	1	0	DSI 5	22.68	23.30

CA_41C_Ant 5											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	0	0	0	1	0	Full	23.95	24.30
40185	40383	QPSK	1	0	0	0	1	0	Full	23.89	24.30
40620	40818	QPSK	1	0	0	0	1	0	Full	24.02	24.30
41055	41253	QPSK	1	0	0	0	1	0	Full	23.96	24.30
41490	41292	QPSK	1	0	0	0	1	0	Full	23.97	24.30
39750	39948	QPSK	1	0	0	0	1	0	DSI 4	23.31	23.80
40185	40383	QPSK	1	0	0	0	1	0	DSI 4	23.37	23.80
40620	40818	QPSK	1	0	0	0	1	0	DSI 4	23.41	23.80
41055	41253	QPSK	1	0	0	0	1	0	DSI 4	23.32	23.80
41490	41292	QPSK	1	0	0	0	1	0	DSI 4	23.37	23.80
39750	39948	QPSK	1	0	0	0	1	0	DSI 5	23.95	24.30
40185	40383	QPSK	1	0	0	0	1	0	DSI 5	23.89	24.30
40620	40818	QPSK	1	0	0	0	1	0	DSI 5	24.02	24.30
41055	41253	QPSK	1	0	0	0	1	0	DSI 5	23.96	24.30
41490	41292	QPSK	1	0	0	0	1	0	DSI 5	23.97	24.30

CA_48C For FCC_Ant 10											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
55340	55538	QPSK	1	0	0	0	1	0	Full	23.19	23.80
55830	56028	QPSK	1	0	0	0	1	0	Full	23.12	23.80
56150	56348	QPSK	1	0	0	0	1	0	Full	23.15	23.80
56640	56442	QPSK	1	0	0	0	1	0	Full	23.18	23.80
55340	55538	QPSK	1	0	0	0	1	0	DSI 4	23.19	23.80
55830	56028	QPSK	1	0	0	0	1	0	DSI 4	23.12	23.80
56150	56348	QPSK	1	0	0	0	1	0	DSI 4	23.15	23.80
56640	56442	QPSK	1	0	0	0	1	0	DSI 4	23.18	23.80
55340	55538	QPSK	1	0	0	0	1	0	DSI 5	21.71	22.30
55830	56028	QPSK	1	0	0	0	1	0	DSI 5	21.56	22.30
56150	56348	QPSK	1	0	0	0	1	0	DSI 5	21.68	22.30
56640	56442	QPSK	1	0	0	0	1	0	DSI 5	21.62	22.30

CA_48C For FCC_Ant 6											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
55340	55538	QPSK	1	0	0	0	1	0	Full	22.91	23.30
55830	56028	QPSK	1	0	0	0	1	0	Full	22.86	23.30
56150	56348	QPSK	1	0	0	0	1	0	Full	22.90	23.30
56640	56442	QPSK	1	0	0	0	1	0	Full	22.81	23.30
55340	55538	QPSK	1	0	0	0	1	0	DSI 4	22.91	23.30
55830	56028	QPSK	1	0	0	0	1	0	DSI 4	22.86	23.30
56150	56348	QPSK	1	0	0	0	1	0	DSI 4	22.90	23.30
56640	56442	QPSK	1	0	0	0	1	0	DSI 4	22.81	23.30
55340	55538	QPSK	1	0	0	0	1	0	DSI 5	17.83	18.30
55830	56028	QPSK	1	0	0	0	1	0	DSI 5	17.76	18.30
56150	56348	QPSK	1	0	0	0	1	0	DSI 5	17.78	18.30
56640	56442	QPSK	1	0	0	0	1	0	DSI 5	17.79	18.30

Downlink CA Power

Full Power

2CC

Configure		CA Configuration (BCS)	PCC						SCC				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dB)
Inter-Band		2A-17A	Band 17	10	710	23790	QPSK	1	0	Band 2	10	1960	900	23.72	23.80
		2A-26A	Band 2	20	1880	18900	QPSK	1	0	Band 26	5	876.5	8865	24.18	24.35
		4A-17A	Band 17	10	710	23790	QPSK	1	0	Band 4	10	2132.5	2175	23.65	23.80
		4A-48A	Band 4	20	1732.5	20175	QPSK	1	0	Band 48	20	3690	56640	23.81	23.98
		7A-26A	Band 7	20	2535	21100	QPSK	1	0	Band 26	5	876.5	8865	23.89	23.99
		7A-71A	Band 7	20	2535	21100	QPSK	1	0	Band 71	20	634.50	68786	23.78	23.99
		12A-48A	Band 12	10	707.5	23095	QPSK	1	0	Band 48	20	3690	56640	23.70	23.90
		25A-26A	Band 25	20	1880	26340	QPSK	1	0	Band 26	5	876.5	8865	24.29	24.40
		48A-71A	Band 71	20	683	133322	QPSK	1	0	Band 48	20	3690.00	56640	23.77	23.88
Intra-Band	Contiguous	48B	Band 48	15	3607.5	55815	QPSK	1	0	Band 48	20	3690	56640	24.19	24.73
		38C	Band 38	20	2580	37850	QPSK	1	0	Band 38	20	2599.80	38048	24.65	24.85

3CC

Configure		CA Configuration (BCS)	PCC						SCC1				SCC2				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dB)
Inter-Band		2A-2A-30A	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 30	10	2355	9820	24.12	24.35
		2A-4A-13A	Band 2	20	1880	18900	QPSK	1	0	Band 4	20	2132.5	2175	Band 13	10	751	5230	24.10	24.35
		2A-5A-30A	Band 2	20	1880	18900	QPSK	1	0	Band 5	10	881.5	2525	Band 30	10	2355	9820	24.17	24.35
		2A-5A-48A	Band 2	20	1880	18900	QPSK	1	0	Band 5	10	881.5	2525	Band 48	20	3560	55340	24.05	24.35
		2A-7A-12A	Band 2	20	1880	18900	QPSK	1	0	Band 7	20	2655	3100	Band 12	10	737.5	5095	24.13	24.35
		2A-12A-30A	Band 2	20	1880	18900	QPSK	1	0	Band 12	10	737.5	5095	Band 30	10	2355	9820	24.13	24.35
		2A-13A-48A	Band 2	20	1880	18900	QPSK	1	0	Band 13	10	751	5230	Band 48	20	3560	55340	24.17	24.35
		2A-30A-66A	Band 2	20	1880	18900	QPSK	1	0	Band 30	10	2355	9820	Band 66	20	2155	66886	24.16	24.35
		2A-48A-48A	Band 2	20	1880	18900	QPSK	1	0	Band 48	20	3560	55340	Band 48	20	3690	56640	24.11	24.35
		2A-48A-66A	Band 2	20	1880	18900	QPSK	1	0	Band 48	20	3560	55340	Band 66	20	2155	66886	24.16	24.35
		2A-12B	Band 2	20	1880	18900	QPSK	1	0	Band 12	5	733.8	5058	Band 12	10	741	5130	24.15	24.35
		2A-7C	Band 2	20	1880	18900	QPSK	1	0	Band 7	20	2655	3100	Band 7	20	2674.8	3298	24.05	24.35
		4A-4A-7A	Band 4	20	1732.5	20175	QPSK	1	0	Band 4	5	2152.5	2375	Band 7	20	2655	3100	23.79	23.98
		4A-4A-13A	Band 4	20	1732.5	20175	QPSK	1	0	Band 4	5	2152.5	2375	Band 13	10	751	5230	23.78	23.98
		4A-4A-71A	Band 4	20	1732.5	20175	QPSK	1	0	Band 4	5	2152.5	2375	Band 71	20	634.5	68786	23.74	23.98
		4A-5A-30A	Band 4	20	1732.5	20175	QPSK	1	0	Band 5	10	881.5	2525	Band 30	10	2355	9820	23.84	23.98
		4A-7A-12A	Band 4	20	1732.5	20175	QPSK	1	0	Band 7	20	2655	3100	Band 12	10	737.5	5095	23.84	23.98
		4A-12A-30A	Band 4	20	1732.5	20175	QPSK	1	0	Band 12	10	737.5	5095	Band 30	10	2355	9820	23.71	23.98
		4A-7C	Band 4	20	1732.5	20175	QPSK	1	0	Band 7	20	2655	3100	Band 7	20	2674.8	3298	23.78	23.98
		4A-48C	Band 4	20	1732.5	20175	QPSK	1	0	Band 48	20	3625	55990	Band 48	20	3644.5	56188	23.79	23.98
		5A-30A-66A	Band 5	10	829	20450	QPSK	1	0	Band 30	10	2355	9820	Band 66	20	2155	66886	23.62	23.75
		5A-48A-66A	Band 5	10	829	20450	QPSK	1	0	Band 48	20	3560	55340	Band 66	20	2155	66886	23.57	23.75
		7A-12A-66A	Band 7	20	2535	21100	QPSK	1	0	Band 12	10	737.5	5095	Band 66	20	2155	66886	23.88	23.99
		7A-12B	Band 7	20	2535	21100	QPSK	1	0	Band 12	5	733.8	5058	Band 12	10	741	5130	23.85	23.99
		12A-30A-66A	Band 12	10	707.5	23095	QPSK	1	0	Band 30	10	2355	9820	Band 66	20	2155	66886	23.68	23.90
		13A-48A-66A	Band 13	10	782	23230	QPSK	1	0	Band 48	20	3560	55340	Band 66	20	2155	66886	23.12	23.45
		25A-25A-66A	Band 25	20	1880	26340	QPSK	1	0	Band 25	5	1932.5	8065	Band 66	20	2155	66886	24.20	24.40
		30A-66A-66A	Band 66	20	1745	132322	QPSK	1	0	Band 66	20	2190	67236	Band 30	10	2355	9820	24.26	24.50
		48A-48A-66A	Band 66	20	1745	132322	QPSK	1	0	Band 48	20	3560	55340	Band 48	20	3690	56640	24.17	24.50
		48A-66A-66A	Band 66	20	1745	132322	QPSK	1	0	Band 66	20	2190	67236	Band 48	20	3560	55340	24.16	24.50
		48A-66B	Band 66	10	1750.1	132373	QPSK	1	0	Band 66	10	2160	66936	Band 48	20	3560	55340	24.21	24.50
		48A-66C	Band 66	20	1755	132442	QPSK	1	0	Band 66	20	2174.8	67084	Band 48	20	3560	55340	24.18	24.50
		2C-5A	Band 2	20	1870.1	18801	QPSK	1	0	Band 2	20	1969.9	999	Band 5	10	881.5	2525	24.11	24.35
		2C-12A	Band 2	20	1870.1	18801	QPSK	1	0	Band 2	20	1969.9	999	Band 12	10	737.5	5095	24.19	24.35
Intra-Band	Non-Contiguous	41A-41A-41A	Band 41	20	2593	40620	QPSK	1	0	Band 41	20	2506	39750	Band 41	20	2680	41490	24.50	24.71
		48A-48C	Band 48	20	3560	55340	QPSK	1	0	Band 48	20	3660	56340	Band 48	20	3679.8	56538	24.14	24.73

4CC

Configure		CA Configuration (BCS)	PCC						SCC1				SCC2				SCC3				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (Hz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2A-2A-4A-4A	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 4	20	2132.5	2175	Band 4	5	2152.5	2375	24.10	24.35
		2A-2A-4A-5A	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 4	20	2132.5	2175	Band 5	10	881.5	2525	24.14	24.35
		2A-2A-4A-12A	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 4	20	2132.5	2175	Band 12	10	737.5	5095	24.12	24.35
		2A-2A-4A-71A	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 4	20	2132.5	2175	Band 71	20	634.5	68786	24.12	24.35
		2A-2A-7A-66A	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 7	20	2655	3100	Band 66	20	2155	66886	24.10	24.35
		2A-2A-12A-66A	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 12	10	737.5	5095	Band 66	20	2155	66886	24.19	24.35
		2A-2A-66A-71A	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 66	20	2155	66886	Band 71	20	634.5	68786	24.07	24.35
		2A-2A-66B	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 66	10	2150.1	66837	Band 66	10	2160	66936	24.06	24.35
		2A-2A-66C	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 66	20	2155	66886	Band 66	20	2174.8	67084	24.09	24.35
		2A-4A-4A-5A	Band 2	20	1880	18900	QPSK	1	0	Band 4	20	2132.5	2175	Band 4	5	2152.5	2375	Band 5	10	881.5	2525	24.13	24.35
		2A-4A-4A-12A	Band 2	20	1880	18900	QPSK	1	0	Band 4	20	2132.5	2175	Band 4	5	2152.5	2375	Band 12	10	737.5	5095	24.14	24.35
		2A-4A-7A-7A	Band 2	20	1880	18900	QPSK	1	0	Band 4	20	2132.5	2175	Band 7	20	2655	3100	Band 7	5	2687.5	3425	24.11	24.35
		2A-5A-5A-66A	Band 2	20	1880	18900	QPSK	1	0	Band 5	10	881.5	2525	Band 5	10	889	2600	Band 66	20	2155	66886	24.09	24.35
		2A-5A-7A-7A	Band 2	20	1880	18900	QPSK	1	0	Band 5	10	881.5	2525	Band 7	20	2655	3100	Band 7	5	2687.5	3425	24.06	24.35
		2A-5A-66B	Band 2	20	1880	18900	QPSK	1	0	Band 5	10	881.5	2525	Band 66	10	2150.1	66837	Band 66	10	2160	66936	24.06	24.35
		2A-5A-48C	Band 2	20	1880	18900	QPSK	1	0	Band 5	10	881.5	2525	Band 48	20	3660	56340	Band 48	20	3679.8	56538	24.18	24.35
		2A-5A-66C	Band 2	20	1880	18900	QPSK	1	0	Band 5	10	881.5	2525	Band 66	20	2155	66886	Band 66	20	2174.8	67084	24.08	24.35
		2A-7A-7A-13A	Band 2	20	1880	18900	QPSK	1	0	Band 7	20	2655	3100	Band 7	5	2687.5	3425	Band 13	10	751	5230	24.14	24.35
		2A-12A-66A-66A	Band 2	20	1880	18900	QPSK	1	0	Band 12	10	737.5	5095	Band 66	20	2120	66536	Band 66	20	2190	67236	24.15	24.35
		2A-12A-66C	Band 2	20	1880	18900	QPSK	1	0	Band 12	10	737.5	5095	Band 66	20	2155	66886	Band 66	20	2174.8	67084	24.08	24.35
		2A-13A-48C	Band 2	20	1880	18900	QPSK	1	0	Band 13	10	751	5230	Band 48	20	3660	56340	Band 48	20	3679.8	56538	24.19	24.35
		2A-66A-66A-66A	Band 2	20	1880	18900	QPSK	1	0	Band 66	20	2145	66786	Band 66	20	2120	66536	Band 66	20	2190	67236	24.07	24.35
		2A-66A-66A-71A	Band 2	20	1880	18900	QPSK	1	0	Band 66	20	2120	66536	Band 66	20	2190	67236	Band 71	20	634.5	68786	24.19	24.35
		2A-5B-66A	Band 2	20	1880	18900	QPSK	1	0	Band 5	10	884	2550	Band 5	5	891.2	2622	Band 66	20	2155	66886	24.06	24.35
		2A-7C-13A	Band 2	20	1880	18900	QPSK	1	0	Band 7	20	2655	3100	Band 7	20	2674.8	3298	Band 13	10	751	5230	24.13	24.35
		2A-7C-66A	Band 2	20	1880	18900	QPSK	1	0	Band 7	20	2655	3100	Band 7	20	2674.8	3298	Band 66	20	2155	66886	24.09	24.35
		2A-48C-66A	Band 2	20	1880	18900	QPSK	1	0	Band 48	20	3660	56340	Band 48	20	3679.8	56538	Band 66	20	2155	66886	24.13	24.35
		2A-66C-71A	Band 2	20	1880	18900	QPSK	1	0	Band 66	20	2155	66886	Band 66	20	2174.8	67084	Band 71	20	634.5	68786	24.15	24.35
		4A-4A-5B	Band 4	20	1732.5	20175	QPSK	1	0	Band 4	5	2152.5	2375	Band 5	10	884	2550	Band 5	5	891.2	2622	23.66	23.98
		4A-4A-12B	Band 4	20	1732.5	20175	QPSK	1	0	Band 4	5	2152.5	2375	Band 12	5	733.8	5058	Band 12	10	741	5130	23.69	23.98
		4A-48D	Band 4	20	1732.5	20175	QPSK	1	0	Band 48	20	3609	55830	Band 48	20	3628.8	56028	Band 48	20	3648.6	56226	23.71	23.98
		5A-5A-66B	Band 5	10	829	20450	QPSK	1	0	Band 5	10	889	2600	Band 66	10	2150.1	66837	Band 66	10	2160	66936	23.74	23.75
		5A-5A-66C	Band 5	10	829	20450	QPSK	1	0	Band 5	10	889	2600	Band 66	20	2155	66886	Band 66	20	2174.8	67084	23.51	23.75
		5A-7A-7A-66A	Band 5	10	829	20450	QPSK	1	0	Band 7	20	2655	3100	Band 7	5	2687.5	3425	Band 66	20	2155	66886	23.46	23.75
		5A-7A-66A-66A	Band 5	10	829	20450	QPSK	1	0	Band 7	20	2655	3100	Band 66	20	2120	66536	Band 66	20	2190	67236	23.37	23.75
		5A-48C-66A	Band 5	10	829	20450	QPSK	1	0	Band 48	20	3660	56340	Band 48	20	3679.8	56538	Band 66	20	2155	66886	23.29	23.75
		5A-48D	Band 5	10	829	20450	QPSK	1	0	Band 48	20	3609	55830	Band 48	20	3628.8	56028	Band 48	20	3648.6	56226	23.73	23.75
		7A-7A-13A-66A	Band 7	20	2535	21100	QPSK	1	0	Band 7	20	2680	3350	Band 13	10	751	5230	Band 66	20	2155	66886	23.87	23.99
		7A-7A-25A-25A	Band 7	20	2535	21100	QPSK	1	0	Band 7	20	2680	3350	Band 25	20	1962.5	8365	Band 25	5	1932.5	8065	23.84	23.99
		7A-7A-25A-66A	Band 7	20	2535	21100	QPSK	1	0	Band 7	20	2680	3350	Band 25	20	1962.5	8365	Band 66	20	2155	66886	23.82	23.99
		7A-7A-66A-66A	Band 7	20	2535	21100	QPSK	1	0	Band 7	20	2680	3350	Band 66	20	2120	66536	Band 66	20	2190	67236	23.75	23.99
		13A-66A-66B	Band 13	10	782	23230	QPSK	1	0	Band 66	20	2155	66886	Band 66	10	2150.1	66837	Band 66	10	2160	66936	23.19	23.45
		13A-66A-66C	Band 13	10	782	23230	QPSK	1	0	Band 66	20	2155	66886	Band 66	20	2170.2	67038	Band 66	20	2190	67236	23.14	23.45
		13A-48C-66A	Band 13	10	782	23230	QPSK	1	0	Band 48	20	3660	56340	Band 48	20	3679.8	56538	Band 66	20	2155	66886	23.17	23.45
		13A-66D	Band 13	10	782	23230	QPSK	1	0	Band 66	20	2155	66886	Band 66	10	2150.1	66837	Band 66	10	2160	66936	23.20	23.45
		25A-41D	Band 25	20	1880	26340	QPSK	1	0	Band 41	20	2462.2	41094	Band 41	20	2660.2	41292	Band 41	20	2680	41490	24.06	24.40
		5B-66A-66A	Band 5	10	829	20450	QPSK	1	0	Band 5	5	881.2	2522	Band 66	20	2120	66536	Band 66	20	2190	67236	23.62	23.75
		5B-66B	Band 5	10	829	20450	QPSK	1	0	Band 5	5	881.2	2522	Band 66	10	2150.1	66837	Band 66	10	2160	66936	23.45	23.75
		5B-66C	Band 5	10	829	20450	QPSK	1	0	Band 5	5	881.2	2522	Band 66	20	2170.2	67038	Band 66	20	2190	67236	23.67	23.75
		12B-66A-66A	Band 66	20	1745	132322	QPSK	1	0	Band 66	20	2190	67236	Band 12	5	733.8	5058	Band 12	10	741	5130	24.22	24.50
		2C-66A-66A	Band 2	20	1870.1	18801	QPSK	1	0	Band 2	20	1969.9	999	Band 66	20	2120	66536	Band 66	20	2190	67236	24.19	24.35
		7C-13A-66A	Band 7	20	2535	21100	QPSK	1	0	Band 7	20	2674.8	3298	Band 13	10	751	5230	Band 66	20	2155	66886	23.81	23.99
		48C-66A-66A	Band 48	20	3560	55340	QPSK	1	0	Band 48	20	3579.8	55538	Band 66	20	2120	66536	Band 66	20	2190	67236	24.15	24.73
Intra-Band	Non-Contiguous	41A-41A-41C	Band 41	20	2549.5	40185	QPSK	1	0	Band 41	5	2687.5	41565	Band 41	20	2660.2	41292	Band 41	20	2680	41490	24.49	24.71
		41A-41D	Band 41	20	2549.5	40185	QPSK	1	0	Band 41	20	2462.2	41094	Band 41	20	2660.2	41292	Band 41	20	2680	41490	24.44	24.71
		41C-41C	Band 41	20	2549.5	40185	QPSK	1	0	Band 41	20	2569.3	40383	Band 41	20	2660.2	41292	Band 41	20	2680	41490	24.49	24.71
	Contiguous	41E	Band 41	20	2549.5	40185	QPSK	1	0	Band 41	20	2569.3	40383	Band 41	20	2589.1	40581	Band 41	20	2608.9	40779	24.53	24.71

5CC

Configure		CA Configuration (BCS)	PCC							SCC1					SCC2				SCC3				SCC4				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2A-2A-5A-66A-66A	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 5	10	881.5	2525	Band 66	20	2120	66536	Band 66	20	2190	67236	24.08	24.35
		2A-2A-13A-66A-66A	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 13	10	751	5230	Band 66	20	2120	66536	Band 66	20	2190	67236	24.06	24.35
		2A-5A-5A-66A-66A	Band 2	20	1880	18900	QPSK	1	0	Band 5	10	881.5	2525	Band 5	10	889	2600	Band 66	20	2120	66536	Band 66	20	2190	67236	24.16	24.35
		2A-7A-7A-66A-66A	Band 2	20	1880	18900	QPSK	1	0	Band 7	20	2655	3100	Band 7	5	2687.5	3425	Band 66	20	2120	66536	Band 66	20	2190	67236	24.11	24.35
		2A-48D-66A	Band 2	20	1880	18900	QPSK	1	0	Band 48	20	3609	55830	Band 48	20	3628.8	56028	Band 48	20	3648.6	56226	Band 66	20	2155	66886	24.12	24.35
		13A-48D-66A	Band 13	10	782	23230	QPSK	1	0	Band 48	20	3609	55830	Band 48	20	3628.8	56028	Band 48	20	3648.6	56226	Band 66	20	2155	66886	23.18	23.45
		13A-48E	Band 13	10	782	23230	QPSK	1	0	Band 48	20	3560	55340	Band 48	20	3579.8	55538	Band 48	20	3599.6	55736	Band 48	20	3619.4	55934	23.21	23.45
Intra-Band	Non-Contiguous	41C-41D	Band 41	20	2549.5	40185	QPSK	1	0	Band 41	20	2569.3	40383	Band 41	20	2462.2	41094	Band 41	20	2660.2	41292	Band 41	20	2680	41490	24.49	24.71

6CC

Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				SCC3				SCC4				SCC5				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	2A-48E-66A	Band 2	20	1880	18900	QPSK	1	0	Band 48	20	3560	55340	Band 48	20	3579.8	55538	Band 48	20	3599.6	55736	Band 48	20	3619.4	55934	Band 66	20	2155	66886	24.11	24.35