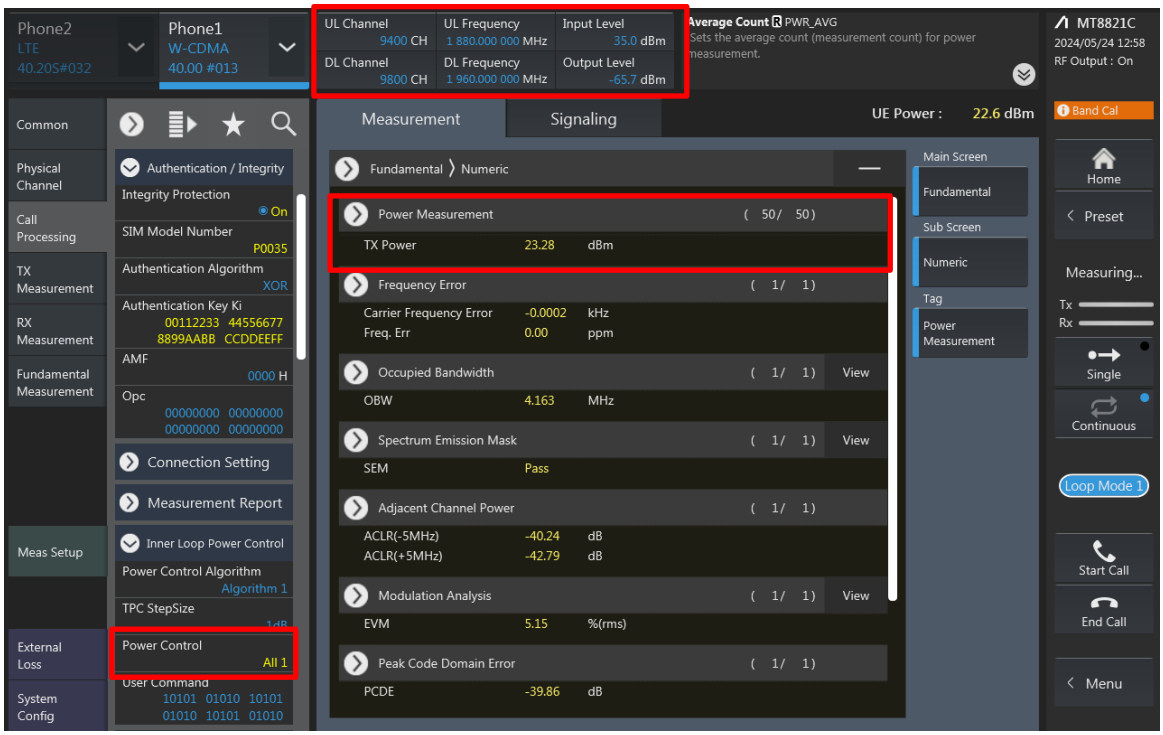
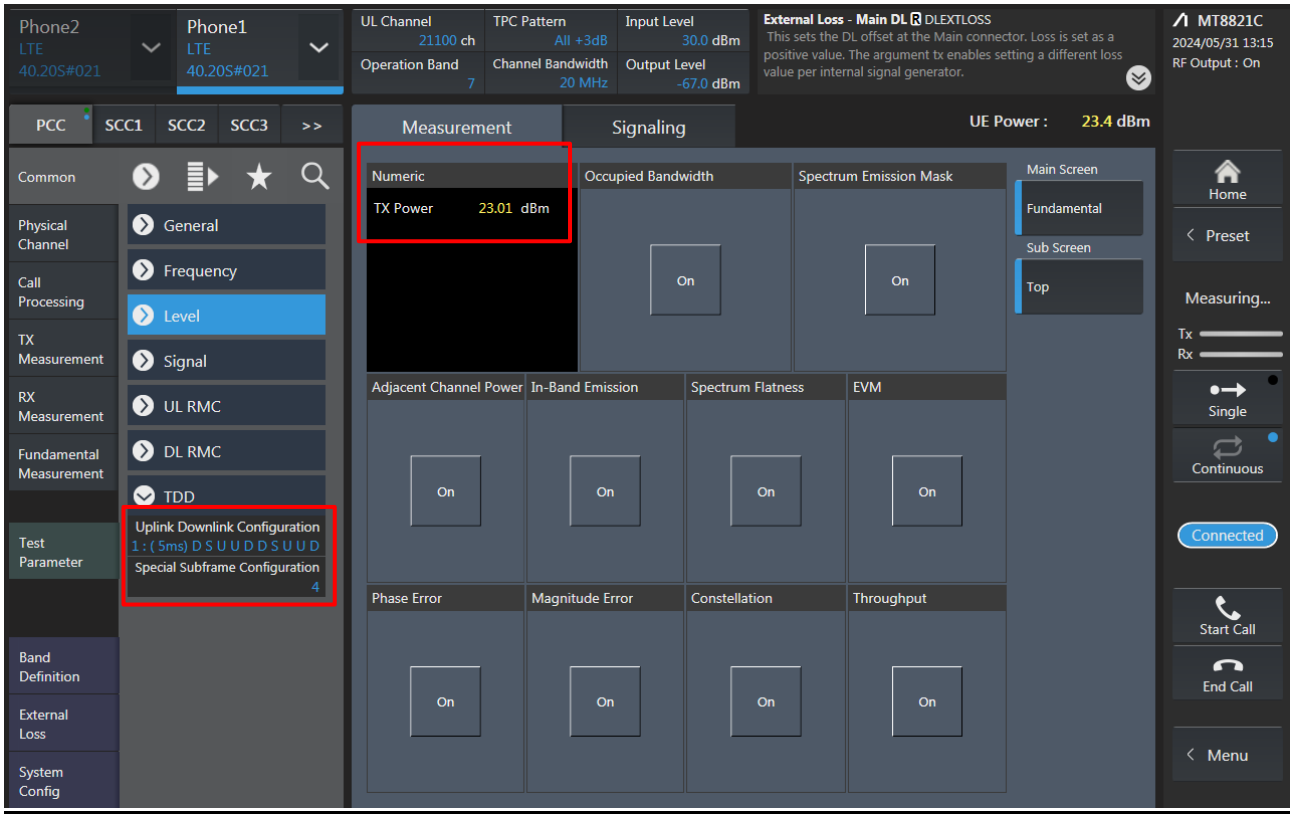
Power measurement connection diagram:

The power measurement for 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 3G/LTE/5G FR1/UL and DL CA.

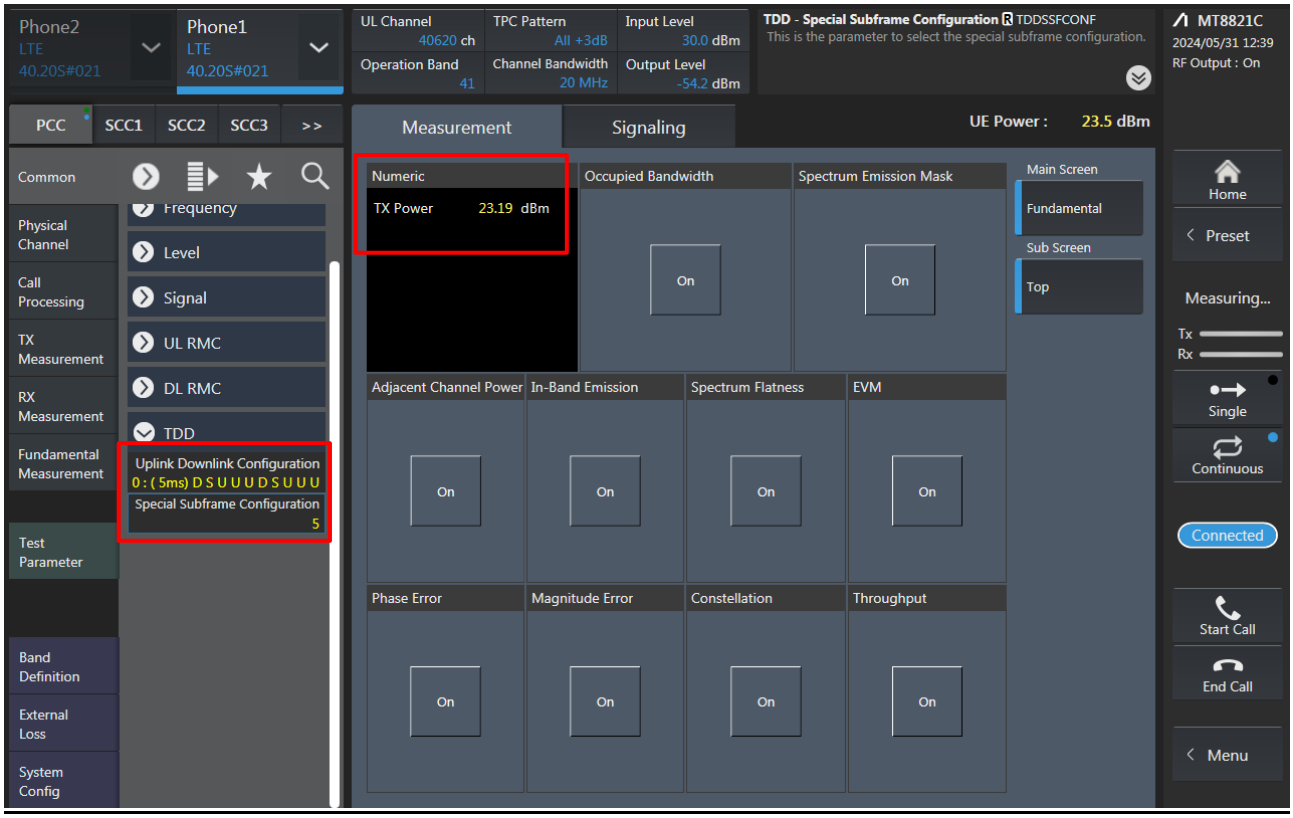
<WCDMA>



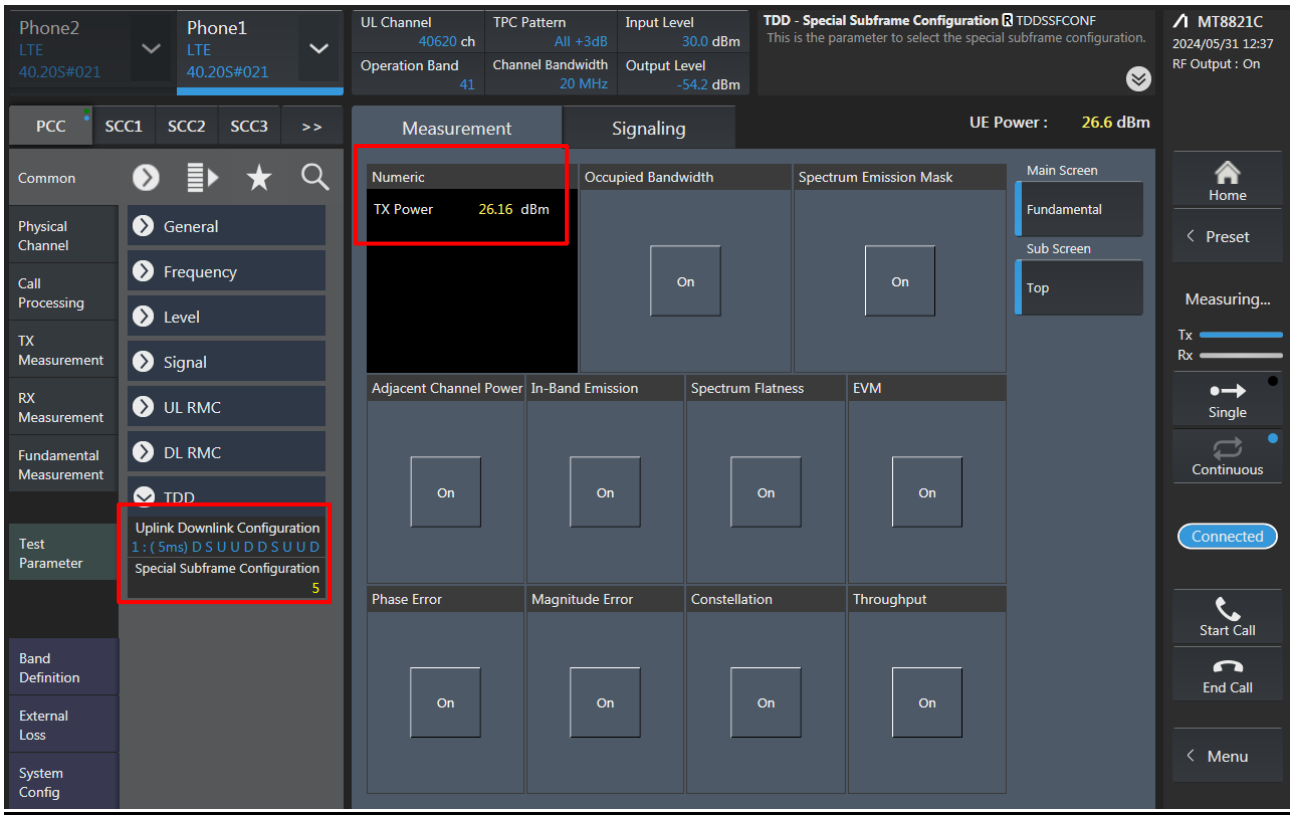
<LTE>

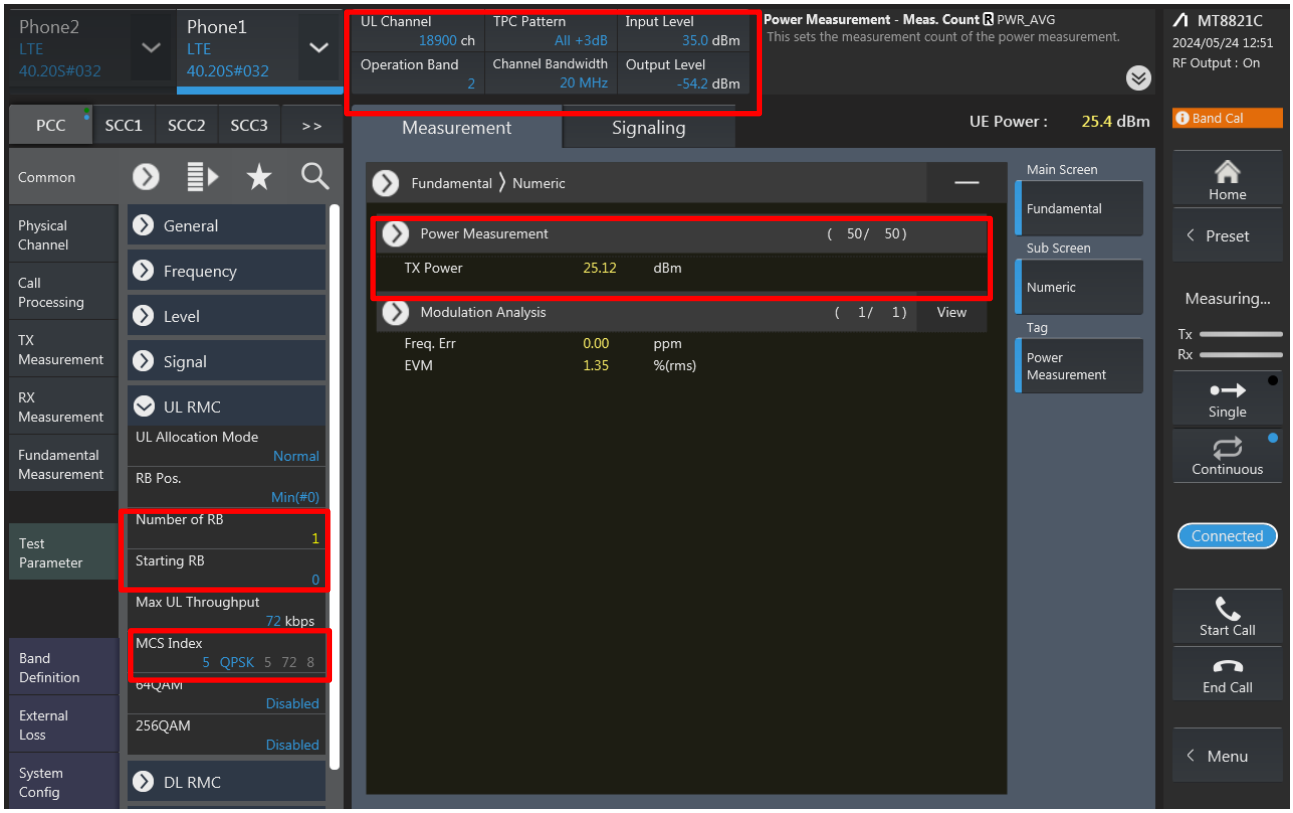

Phone2
LTE
40.20S#021
Phone1
LTE
40.20S#021
UL Channel
21100 ch
Operation Band
7
TPC Pattern
All +3dB
Channel Bandwidth
20 MHz
Input Level
30.0 dBm
Output Level
-67.0 dBm
External Loss - Main DL DLEXTLOSS
This sets the DL offset at the Main connector. Loss is set as a positive value. The argument tx 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
Main Screen
Fundamental
Sub Screen
Top
Adjacent Channel Power
In-Band Emission
Spectrum Flatness
EVM
Phase Error
Magnitude Error
Constellation
Throughput
On
Home
Preset
Measuring...
Tx
Rx
Single
Continuous
Connected
Start Call
End Call
Menu

<LTE TDD Power class 3>

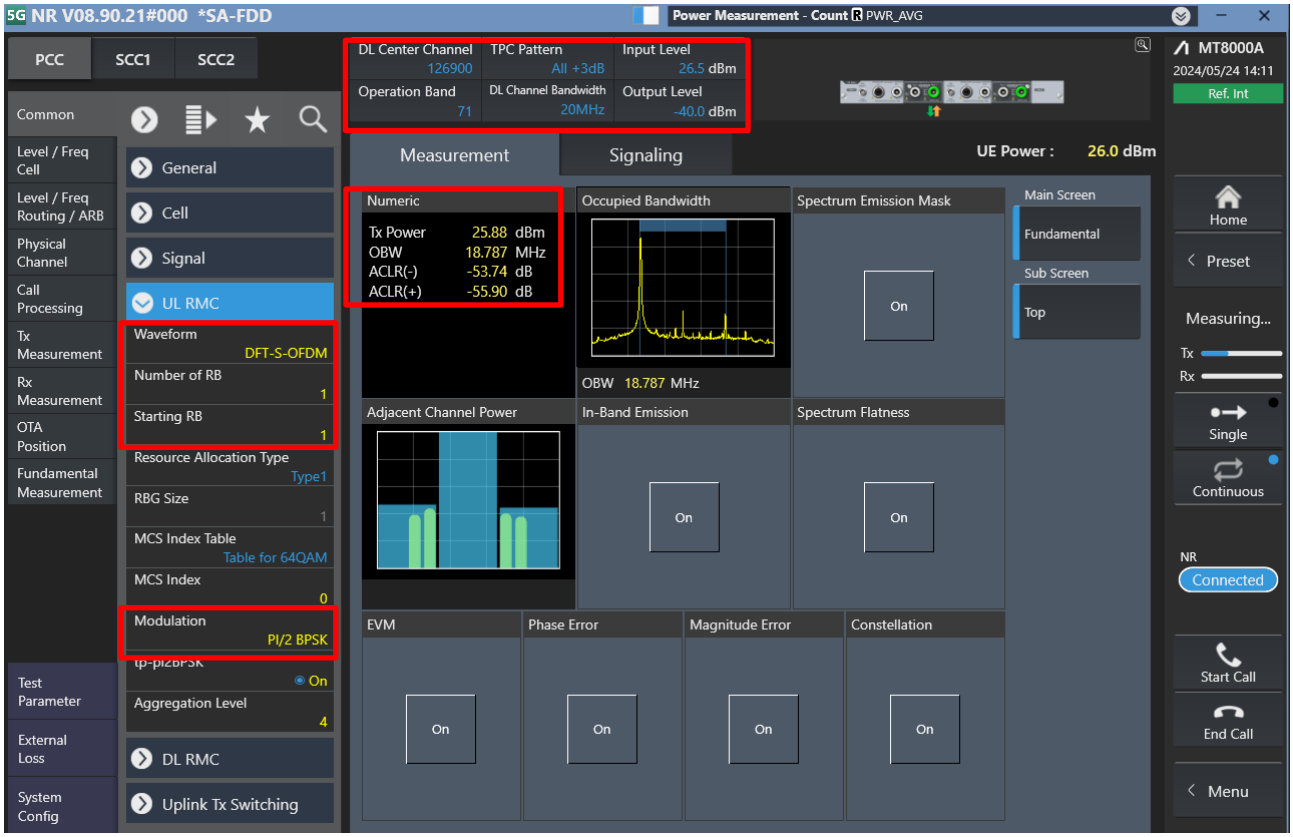


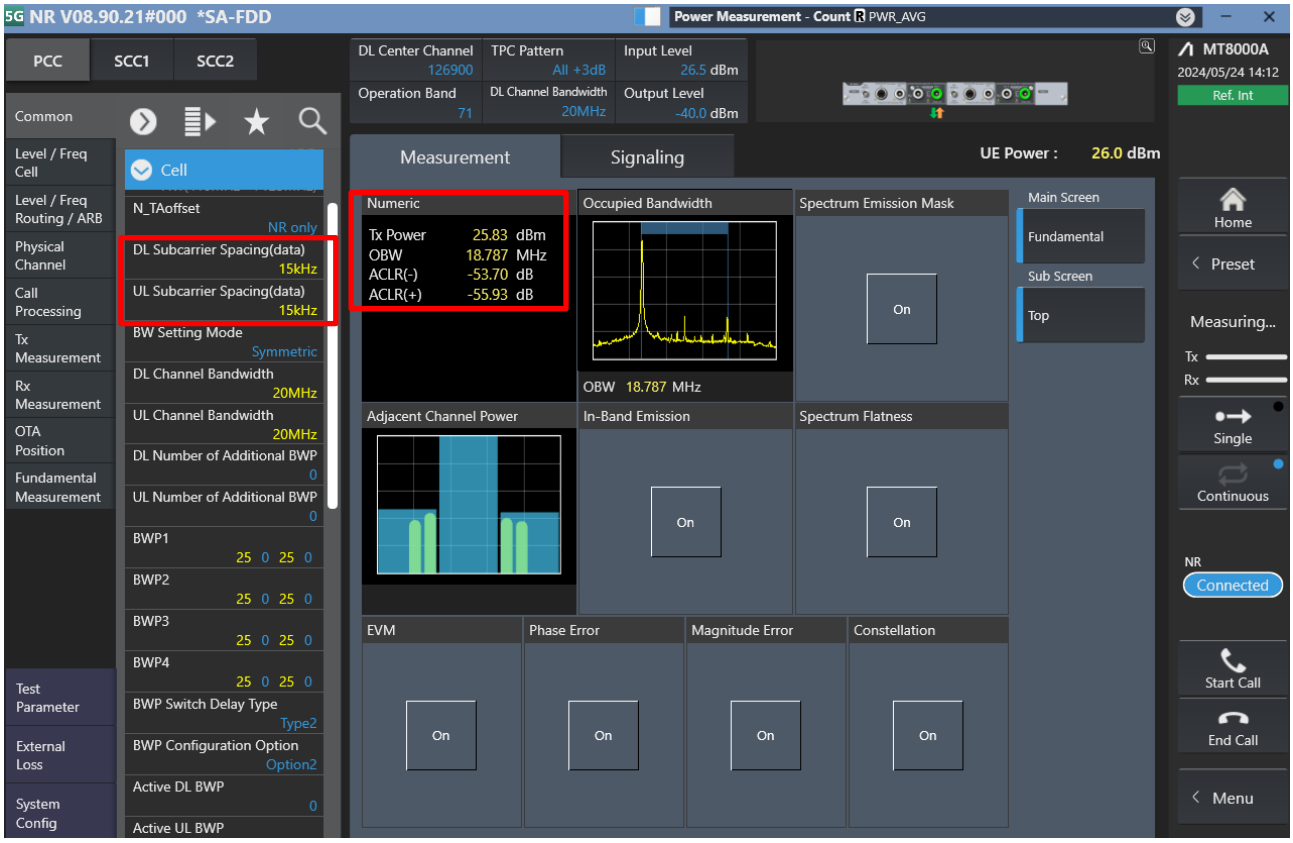
<LTE TDD Power class 2>

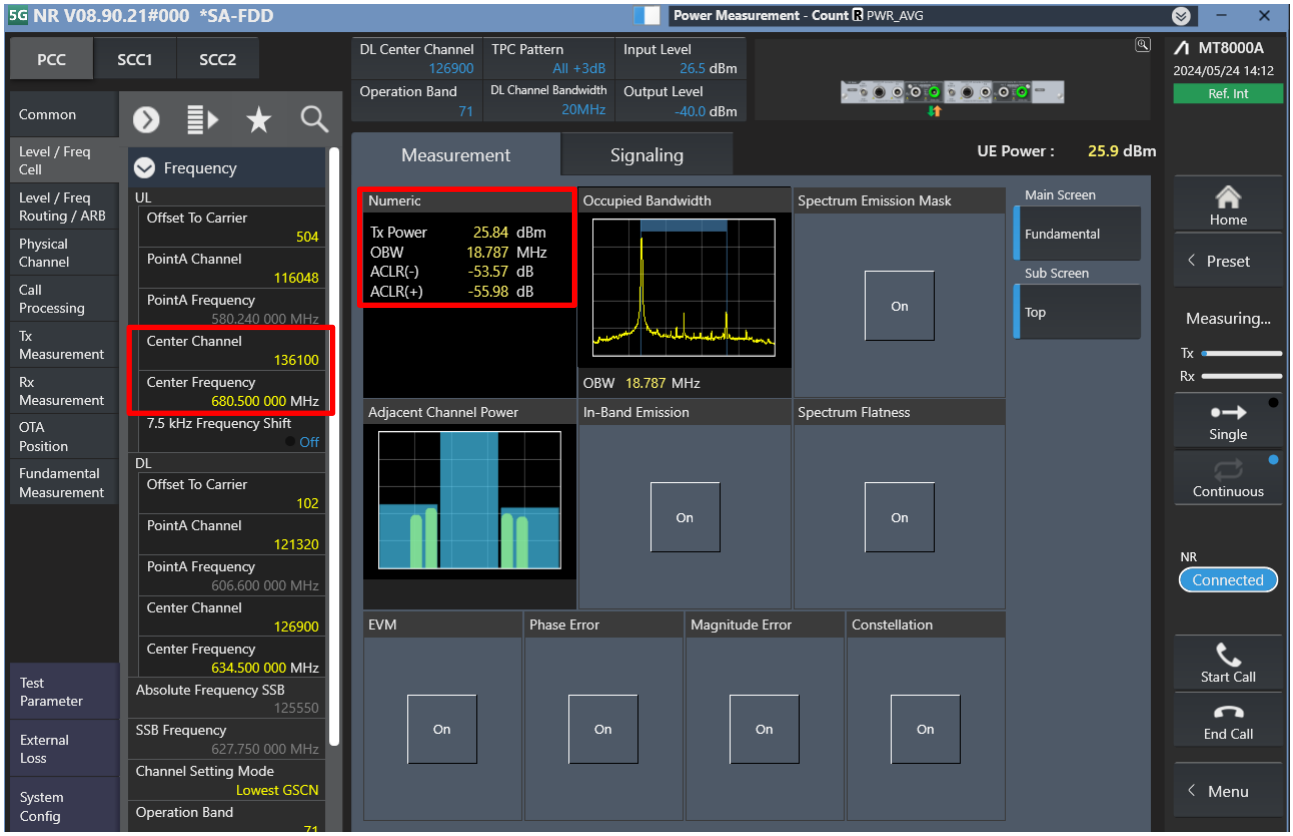



Phone2
LTE
40.20S#032
Phone1
LTE
40.20S#032
UL Channel
18900 ch
TPC Pattern
All +3dB
Input Level
35.0 dBm
Operation Band
2
Channel Bandwidth
20 MHz
Output Level
-54.2 dBm
Power Measurement - Meas. Count PWR_AVG
This sets the measurement count of the power measurement.
MT8821C
2024/05/24 12:51
RF Output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

<5GNR FR1>

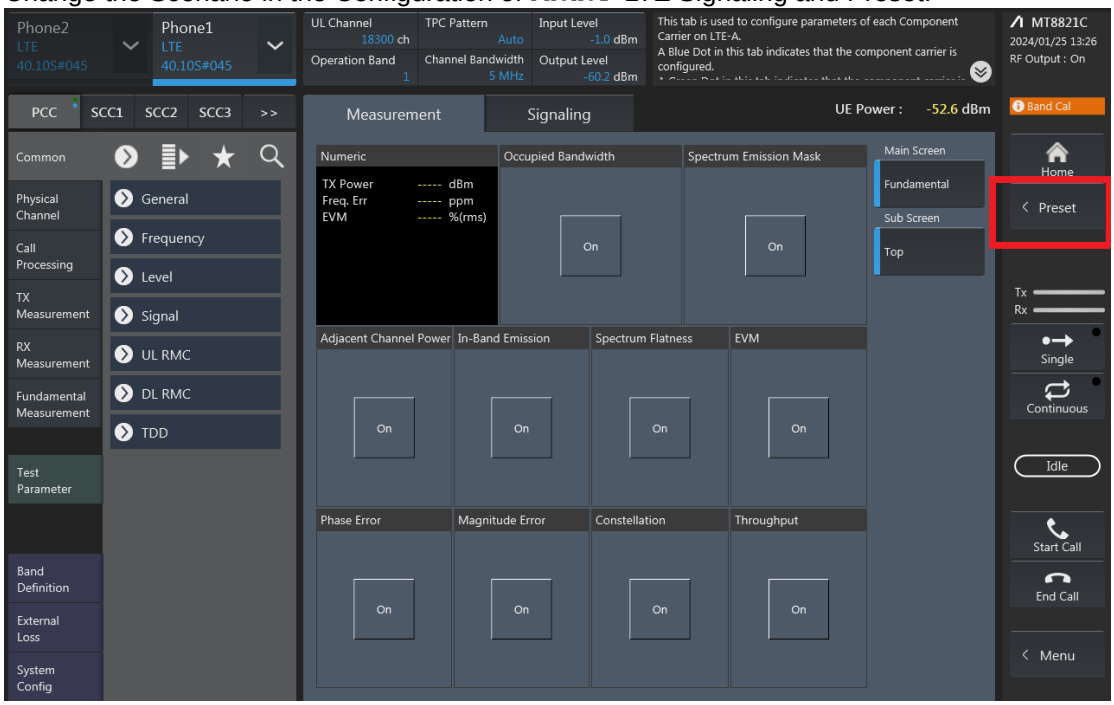

5G NR V08.90.21#000 *SA-FDD
Power Measurement - Count PWR_AVG
PCC
SCC1
SCC2
DL Center Channel
126900
TPC Pattern
All +3dB
Input Level
26.5 dBm
Operation Band
71
DL Channel Bandwidth
20MHz
Output Level
-40.0 dBm
MT8000A
2024/05/24 14:11
Ref. Int
Measurement
Signaling
UE Power : 26.0 dBm
Common
Level /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

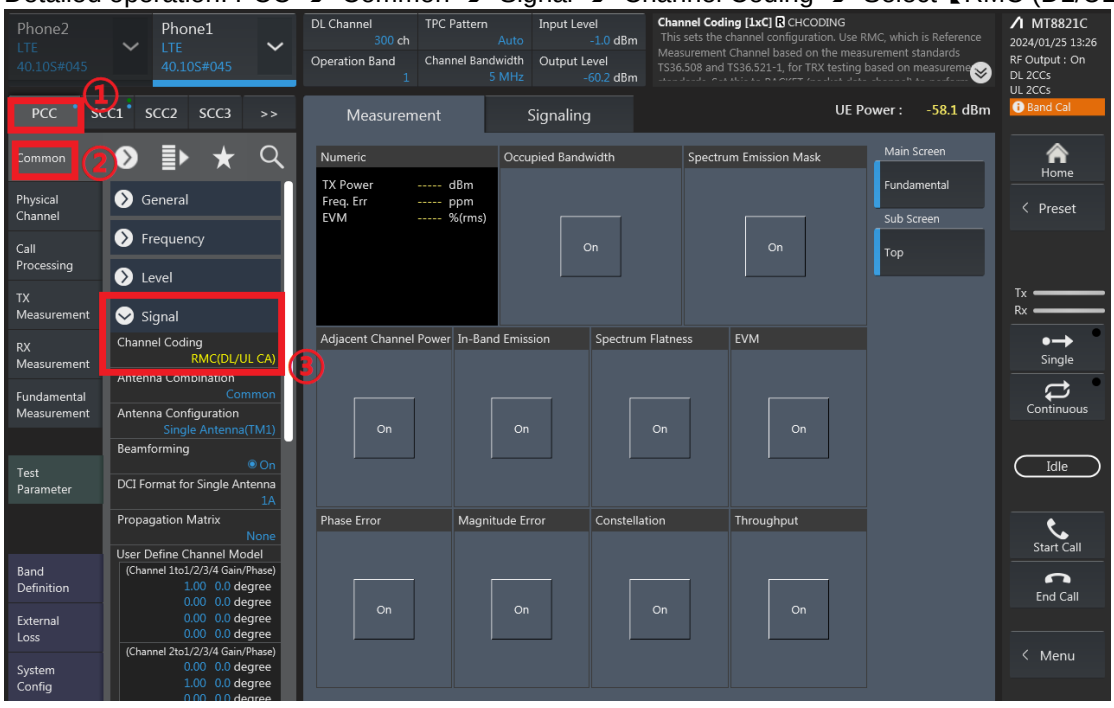

5G NR V08.90.21#000 *SA-FDD
Power Measurement - Count R PWR_AVG
PCC
SCC1
SCC2
DL Center Channel 126900
TPC Pattern All +3dB
Input Level 26.5 dBm
Operation Band 71
DL Channel Bandwidth 20MHz
Output Level -40.0 dBm
MT8000A
2024/05/24 14:12
Ref. Int
Common
Level / Freq Cell
Level / Freq Routing / ARB
Physical 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:

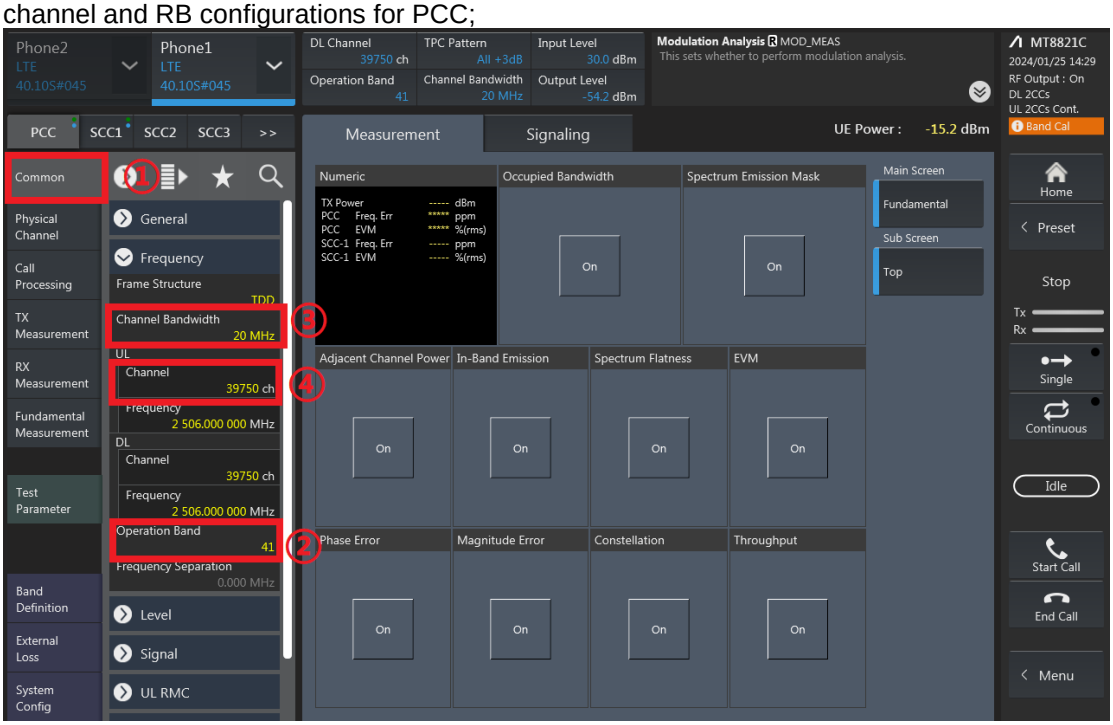
1. Change the Scenario in the Configuration of Phone1 LTE Signaling and Preset.



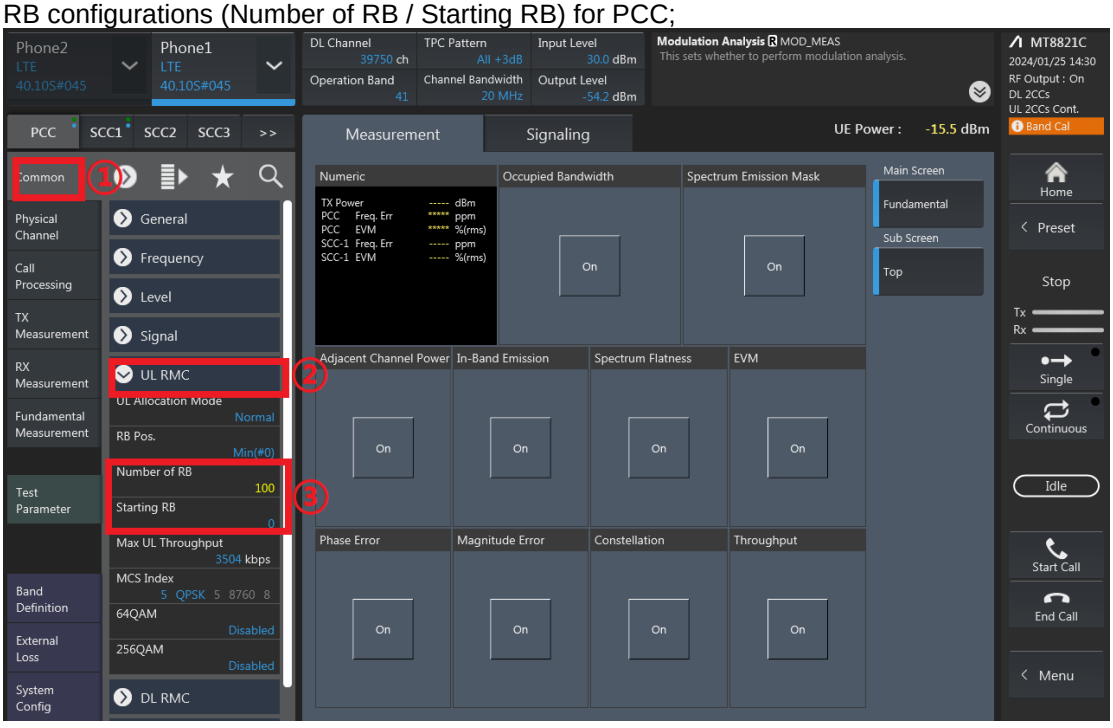
2. If Select “RMC (DL/UL CA)” for Uplink Carrier Aggregation;
If Select “RMC (DL CA)” for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:
Detailed operation: PCC ➔ Common ➔ Signal ➔ Channel Coding ➔ Select【RMC (DL/UL CA)】



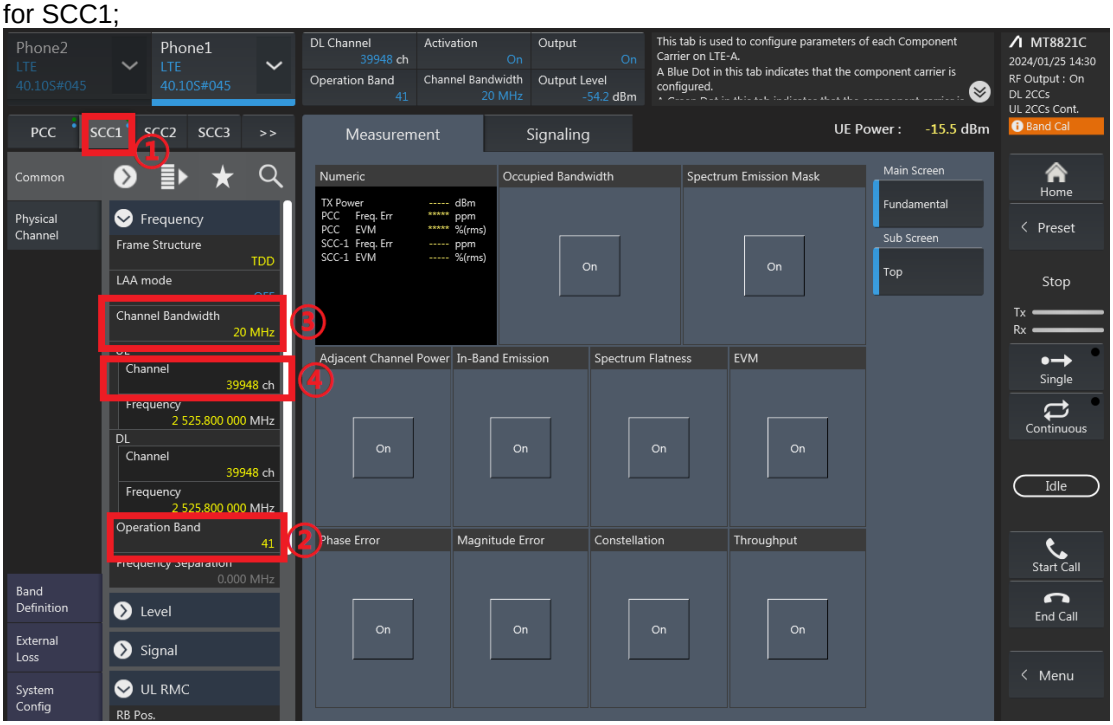
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



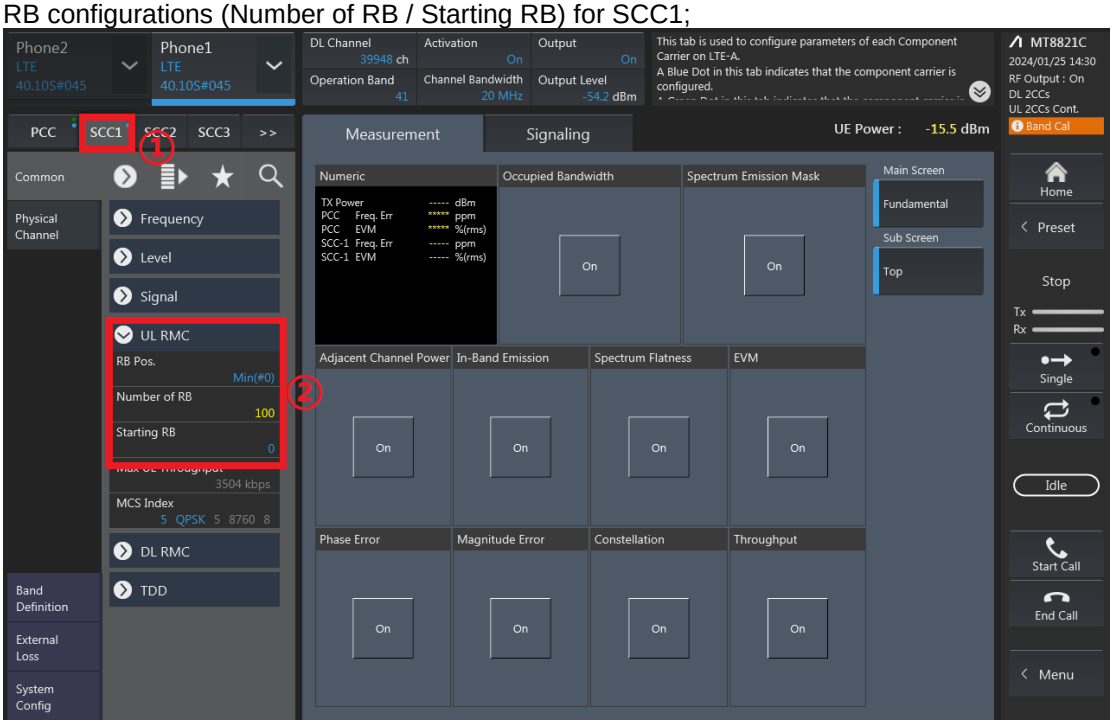
RB configurations (Number of RB / Starting RB) for PCC;



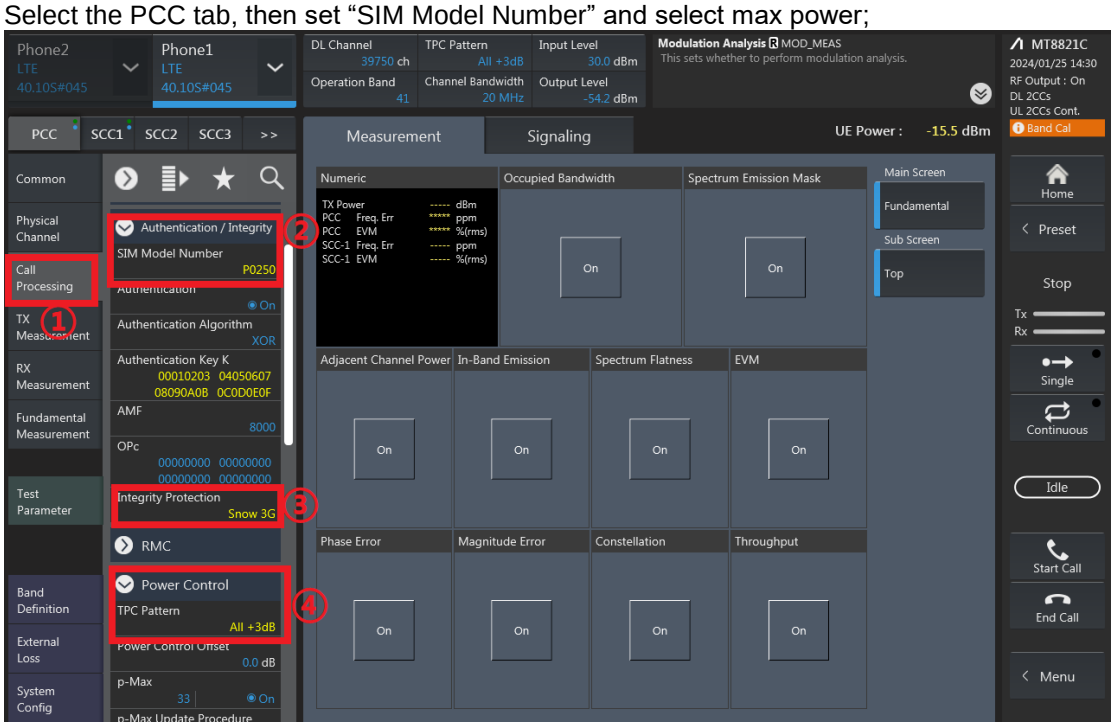
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



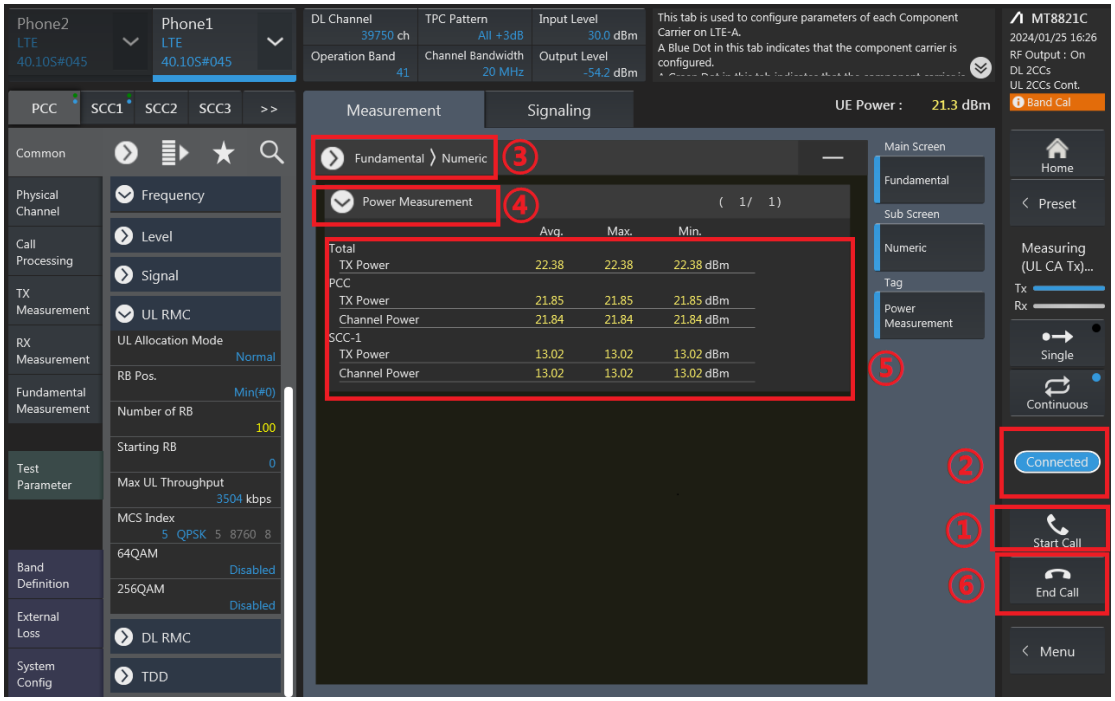
RB configurations (Number of RB / Starting RB) for SCC1;



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.

2CA DL

CA List	PCC									SCC					Power	
	LTE Band	BW Ant	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
CA_2A-7A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.90	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.74	22.89
	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.31	22.45
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.52	21.63
CA_2A-17A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 17	10M	740	5790		23.02	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 17	10M	740	5790		22.70	22.89
	Band 17	Ant 1	10M	710	23790	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	23.90	24.02
CA_4A-17A	Band 4	Ant 0	10M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 17	10M	740	5790		23.08	23.19
	Band 4	Ant 1	10M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 17	10M	740	5790		22.84	22.93
	Band 17	Ant 1	10M	710	23790	QPSK	1	0		Band 4	10M	2132.5	2175	4x4MIMO	23.85	24.02
CA_4A-48A	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	23.06	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.87	22.93
	Band 48	Ant 2	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.85	23.96
CA_5A-5A	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		24.01	24.15
CA_5A-7A	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	24.12	24.15
	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.24	22.45
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		21.44	21.63
CA_7A-7A	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.28	22.45
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	21.61	21.63
CA_7C	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.33	22.45
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	21.43	21.63
CA_25A-25A	Band 25	Ant 0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 25	5M	1891.7	8457	4x4MIMO	22.99	23.17
	Band 25	Ant 1	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 25	5M	1891.7	8457	4x4MIMO	22.76	22.93
CA_38C	Band 38	Ant 0	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	21.95	22.13
	Band 38	Ant 1	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	21.39	21.52

3CA DL

3CA List	PCC									SCC1						SCC2						Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration		LTE	BW	DL	DL	DL Antenna Configuration		With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel			Band	(MHz)	Freq. (MHz)	Channel			Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-4A-13A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		Band 13	10M	751	5230			23.03	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		Band 13	10M	751	5230			22.68	22.89
	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230			Band 2	20M	1960	900	4x4MIMO		22.99	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230			Band 2	20M	1960	900	4x4MIMO		22.73	22.93
	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO		Band 4	20M	2132.5	2175	4x4MIMO		23.98	24.16
CA_2A-5A-13A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 13	10M	751	5230			22.93	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 13	10M	751	5230			22.78	22.89
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 13	10M	751	5230			Band 2	20M	1960	900	4x4MIMO		24.07	24.15
	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO		Band 5	10M	881.5	2525			24.01	24.16
CA_2A-14A-30A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330			Band 30	10M	2355	9820	4x4MIMO		23.05	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330			Band 30	10M	2355	9820	4x4MIMO		22.74	22.89
	Band 14	Ant 1	10M	793	23330	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO		Band 2	20M	1960	900	4x4MIMO		24.06	24.12
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		Band 14	10M	763	5330			22.51	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		Band 14	10M	763	5330			21.90	21.95
CA_2A-48A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO		Band 66	20M	2155	66886	4x4MIMO		22.90	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO		Band 66	20M	2155	66886	4x4MIMO		22.80	22.89
	Band 48	Ant 2	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO		Band 2	20M	1960	900	4x4MIMO		23.89	23.96
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		Band 48	20M	3609	55830	4x4MIMO		23.08	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		Band 48	20M	3609	55830	4x4MIMO		23.00	23.03
CA_2A-5A-48A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 48	20M	3609	55830	4x4MIMO		23.05	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 48	20M	3609	55830	4x4MIMO		22.86	22.89
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO		Band 2	20M	1960	900	4x4MIMO		24.01	24.15
CA_2A-13A-48A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230			Band 48	20M	3609	55830	4x4MIMO		22.93	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230			Band 48	20M	3609	55830	4x4MIMO		22.89	22.89
	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO		Band 2	20M	1960	900	4x4MIMO		23.98	24.16
CA_2A-48A-48A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO		Band 48	5M	3697.5	56715	4x4MIMO		23.00	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO		Band 48	5M	3697.5	56715	4x4MIMO		22.78	22.89
	Band 48	Ant 2	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO		Band 2	20M	1960	900	4x4MIMO		23.81	23.96
CA_13A-48A-66A	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO		Band 66	20M	2155	66886	4x4MIMO		24.06	24.16
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 48	20M	3609	55830	4x4MIMO		23.12	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 48	20M	3609	55830	4x4MIMO		23.01	23.03
CA_48A-48A-66A	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO		Band 48	5M	3697.5	56715	4x4MIMO		23.04	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO		Band 48	5M	3697.5	56715	4x4MIMO		22.95	23.03
CA_48A-66A-66A	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO		Band 48	20M	3609	55830	4x4MIMO		23.17	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO		Band 48	20M	3609	55830	4x4MIMO		22.94	23.03
CA_4A-12A-30A	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095			Band 30	10M	2355	9820	4x4MIMO		23.13	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095			Band 30	10M	2355	9820	4x4MIMO		22.91	22.93
	Band 12	Ant 1	10M	707.5	23095	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO		Band 4	20M	2132.5	2175	4x4MIMO		23.93	24.03
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		Band 12	10M	737.5	5095			22.49	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		Band 12	10M	737.5	5095			21.73	21.95
CA_4A-48C	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO		Band 48	20M	3628.8	56028	4x4MIMO		23.11	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO		Band 48	20M	3628.8	56028	4x4MIMO		22.89	22.93
CA_4A-4A-13A	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO		Band 13	10M	751	5230			23.06	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO		Band 13	10M	751	5230			22.81	22.93
	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO		Band 4	5M	2152.5	2375	4x4MIMO		24.01	24.16
CA_4A-4A-71A	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO		Band 71	20M	683	68786			22.95	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO		Band 71	20M	683	68786			22.80	22.93
	Band 71	Ant 1	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO		Band 4	5M	2152.5	2375	4x4MIMO		23.90	23.96
CA_4A-5A-13A	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 13	10M	751	5230			23.15	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 13	10M	751	5230			22.85	22.93
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 13	10M	751	5230			Band 4	20M	2132.5	2175	4x4MIMO		23.97	24.15
	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO		Band 5	10M	881.5	2525			24.12	24.16
CA_4A-5A-30A	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 30	10M	2355	9820	4x4MIMO		23.02	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 30	10M	2355	9820	4x4MIMO		22.84	22.93
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO		Band 4	20M	2132.5	2175	4x4MIMO		23.93	24.15
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		Band 5	10M	881.5	2525			22.45	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		Band 5	10M	881.5	2525			21.71	21.95
CA_5A-48A-66A	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO		Band 66	20M	2155	66886	4x4MIMO		24.00	24.15
	Band 48	Ant 2	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO		Band 5	10M	881.5	2525			23.72	23.96
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 48	20M	3609	55830	4x4MIMO		23.27	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			Band 48	20M	3609	55830	4x4MIMO		22.95	23.03
CA_41C-41A	Band 41	Ant 0	20M	2675.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2695.6	39948	4x4MIMO		Band 41	5M	2687.5	41565	4x4MIMO		22.17	22.41
	Band 41	Ant 1	20M	2675.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2695.6	39948	4x4MIMO		Band 41	5M	2687.5	41565	4x4MIMO		21.90	22.01
CA_48C-48A	Band 48	Ant 2	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO		Band 48	20M	3709.2	56832	4x4MIMO		23.93	23.96
CA_66A-66C	Band 66	Ant 0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO		Band 66	20M	2174.8	67084	4x4MIMO		23.22	23.28
	Band 66	Ant 1	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO		Band 66	20M	2174.8	67084	4x4MIMO		22.81	23.03
CA_66D	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO		Band 66	20M	2194.6	67282	4x4MIMO		23.06	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO		Band 66	20M	2194.6	67282	4x4MIMO		22.95	23.03
CA_4A-29A-30A	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715			Band 30	10M	2355	9820	4x4MIMO		23.06	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715			Band 30	10M	2355	9820	4x4MIMO		22.73	22.93
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		Band 29	10M	722.5	9715			22.32	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		Band 29	10M	722.5	9715			21.85	21.95

4CA DL

Configure	PCC									SCC1					SCC2					SCC3					Power	
	LTE Band	BW Ant	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
CA_2A-2A-4A-4A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.04	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.81	22.89
	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.02	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.92	22.93
CA_2A-2A-4A-5A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	23.02	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.71	22.89
	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	23.17	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.71	22.93
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	24.09	24.15
CA_2A-2A-4A-12A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095		22.95	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095		22.85	22.89
	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		23.16	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		22.72	22.93
	Band 12	Ant 1	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.81	24.03
CA_2A-2A-4A-71A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	683	68786		23.12	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	683	68786		22.81	22.89
	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.11	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.71	22.93
	Band 71	Ant 1	20M	683	133322	QPSK	1	0		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.74	23.96
CA_2A-2A-5A-30A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4x4MIMO	22.94	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4x4MIMO	22.70	22.89
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.94	24.15
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.47	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	21.73	21.95
CA_2A-2A-5A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	22.98	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	22.65	22.89
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.97	24.15
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	23.08	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.84	23.03
CA_2A-2A-12A-30A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4x4MIMO	22.98	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4x4MIMO	22.76	22.89
	Band 12	Ant 1	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.81	24.03
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		22.49	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		21.86	21.95
CA_2A-2A-12A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	23.00	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	22.73	22.89
	Band 12	Ant 1	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	24.00	24.03
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		23.26	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		22.78	23.03
CA_2A-2A-13A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	23.08	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	22.88	22.89
	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	24.01	24.16
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230		23.24	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230		22.97	23.03
CA_2A-2A-14A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	23.09	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	22.80	22.89
	Band 14	Ant 1	10M	793	23330	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	24.03	24.12
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330		23.14	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330		22.85	23.03
CA_2A-2A-29A-30A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	22.94	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	22.87	22.89
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 29	10M	722.5	9715		22.52	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 29	10M	722.5	9715		21.81	21.95
CA_2A-2A-30A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	22.90	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	22.68	22.89
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.45	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.92	21.95
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.12	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	22.80	23.03
CA_2A-2A-66C	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.00	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.82	22.89
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.12	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.98	23.03
CA_2A-2A-66A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.93	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.74	22.89
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.10	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.84	23.03
CA_2A-2A-66A-71A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 71	20M	683	68786		23.06	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 71	20M	683	68786		22.71	22.89
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.15	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.91	23.03
	Band 71	Ant 1	20M	683	133322	QPSK	1	0		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.89	23.96
CA_2A-2A-66B	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.96	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.88	22.89
	Band 66	Ant 0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.10	23.28
	Band 66	Ant 1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.88	23.03
CA_2A-4A-4A-5A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	23.10	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.83	22.89
	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO	23.03	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO	22.89	22.93
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.92	24.15
CA_2A-4A-4A-12A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		23.06	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		22.77	22.89
	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	23.08	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	22.74	22.93
	Band 12	Ant 1	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.90	24.03
CA_2A-5A-48C	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.05	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.68	22.89
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.93	24.15
CA_2A-5A-66A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.95	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.86	22.89
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.10	24.15
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	23.22	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.93	23.03
CA_2A-5A-66B	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	15M	2145	66786	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	23.07	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	15M	2145	66786	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	22.71	22.89
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 66	15M	2145	66786	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.02	24.15
	Band 66	Ant 0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	23.12	23.28
	Band 66	Ant 1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.87	23.03
CA_2A-5A-66C	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.10	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.84	22.89
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.01	24.15
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	23.07	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.92	23.03
CA_2A-5B-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	22.96	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	22.81	22.89
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.08	24.15
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597	4x4MIMO	23.09	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597	4x4MIMO	22.99	23.03
CA_2A-66A-66A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	23.01	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	22.88	22.89
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.08	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.02	23.03
CA_2A-66A-66A-71A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786		23.04	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786		22.65	22.89
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1960	900	4x4MIMO	23.19	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1960	900	4x4MIMO	22.98	23.03
	Band 71	Ant 1	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.72	23.96
CA_2A-12A-66A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.14	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.66	22.89
	Band 12	Ant 1	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.92	24.03
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.04	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		22.81	23.03
CA_2A-12A-66C	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.11	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.81	22.89
	Band 12	Ant 1	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.91	24.03
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.20	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		22.89	23.03
CA_2A-13A-48C	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.90	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.87	22.89
	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.13	24.16
CA_2A-13A-66A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.96	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.86	22.89
	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.14	24.16
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.07	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		22.95	23.03

CA_2A-13A-66B	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.98	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.85	22.89
	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.07	24.16
	Band 66	Ant 0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.25	23.28
	Band 66	Ant 1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		22.84	23.03
CA_2A-13A-66C	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.97	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.67	22.89
	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.05	24.16
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.13	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		22.82	23.03
CA_2A-14A-66A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.11	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.72	22.89
	Band 14	Ant 1	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.97	24.12
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		23.11	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		23.00	23.03
CA_2A-48C-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.91	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.74	22.89
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.26	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.01	23.03
CA_2A-30A-66A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.01	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.73	22.89
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.39	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.85	21.95
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.18	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	22.90	23.03
CA_2A-48D	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	22.94	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	22.78	22.89
CA_2A-66C-71A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 71	20M	683	68786		23.03	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 71	20M	683	68786		22.69	22.89
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1960	900	4x4MIMO	23.19	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1960	900	4x4MIMO	22.93	23.03
	Band 71	Ant 1	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.95	23.96
CA_2C-66A-66A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.95	23.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.66	22.89
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	23.12	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	22.84	23.03
CA_4A-48D	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.02	23.19
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	22.83	22.93
CA_5A-30A-66A-66A	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	24.04	24.15
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.40	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	21.88	21.95
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4x4MIMO	23.23	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4x4MIMO	22.97	23.03
CA_5A-48C-66A	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	24.02	24.15
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.05	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.90	23.03
CA_5A-48D	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	24.13	24.15
CA_5B-66A-66A	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	24.00	24.15
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597	4x4MIMO	23.13	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597	4x4MIMO	22.97	23.03
CA_12A-30A-66A-66A	Band 12	Ant 1	10M	707.5	23095	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.86	24.03
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	10M	737.5	5095		22.36	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	10M	737.5	5095		21.92	21.95
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4x4MIMO	23.07	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4x4MIMO	22.87	23.03
CA_13A-48C-66A	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	24.08	24.16
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.17	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.02	23.03
CA_13A-48A-66B	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 66	15M	2145	66786	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	24.15	24.16
	Band 66	Ant 0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	23.15	23.28
	Band 66	Ant 1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	22.92	23.03
CA_13A-48A-66C	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	24.12	24.16
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	23.09	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	22.90	23.03
CA_13A-48D	Band 13	Ant 1	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	24.15	24.16
CA_14A-30A-66A-66A	Band 14	Ant 1	10M	793	23330	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	24.11	24.12
	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		22.45	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		21.73	21.95
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		Band 30	10M	2355	9820	4x4MIMO	23.14	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		Band 30	10M	2355	9820	4x4MIMO	22.85	23.03
CA_48C-66A-66A	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.17	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.82	23.03
CA_48C-66B	Band 66	Ant 0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.27	23.28
	Band 66	Ant 1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.78	23.03
CA_48C-66C	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.15	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.85	23.03
CA_48D-66A	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.09	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	22.83	23.03
CA_48E	Band 48	Ant 2	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	Band 48	20M	3668.4	56424	4x4MIMO	23.92	23.96
CA_25A-41D	Band 25	Ant 0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	22.99	23.17
	Band 25	Ant 1	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	22.78	22.93
	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	22.19	22.41
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	21.81	22.01
CA_29A-30A-66A-66A	Band 30	Ant 0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	22.42	22.53
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	21.74	21.95
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.17	23.28
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	22.78	23.03

Uplink CA Power

CA_7C Ant0 Default								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.08	23.00
21100	21298	QPSK	1	99	1	0	22.25	23.00
21350	21152	QPSK	1	0	1	99	22.21	23.00

CA_66C Ant0 Default								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	23.06	24.00
132322	132520	QPSK	1	99	1	0	23.19	24.00
132572	132374	QPSK	1	0	1	99	22.92	24.00

CA_66B Ant0 Default								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132146	QPSK	1	74	1	0	22.82	24.00
132322	132421	QPSK	1	74	1	0	23.08	24.00
132597	132498	QPSK	1	0	1	74	22.83	24.00

CA_38C Ant0 Default								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.07	23.00
38000	38198	QPSK	1	99	1	0	22.09	23.00
38150	37952	QPSK	1	0	1	99	21.96	23.00

CA_41C Ant0 Default								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.17	23.00
40185	40383	QPSK	1	99	1	0	22.23	23.00
40620	40818	QPSK	1	99	1	0	22.22	23.00
41055	41253	QPSK	1	99	1	0	22.31	23.00
41490	41292	QPSK	1	0	1	99	22.21	23.00

CA_48C Ant2 Default								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	23.59	25.00
55830	56028	QPSK	1	99	1	0	23.72	25.00
56150	56348	QPSK	1	99	1	0	23.79	25.00
56640	56442	QPSK	1	0	1	99	23.7	25.00

Uplink CA Power

CA_66C Ant0 Sensor on&Hotspot								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.21	23.00
132322	132520	QPSK	1	99	1	0	22.41	23.00
132572	132374	QPSK	1	0	1	99	22.38	23.00

CA_66B Ant0 Sensor on&Hotspot								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132146	QPSK	1	74	1	0	22.23	23.00
132322	132421	QPSK	1	74	1	0	22.27	23.00
132597	132498	QPSK	1	0	1	74	22.16	23.00

CA_48C Ant2 Receiver on								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	22.8	24.00
55830	56028	QPSK	1	99	1	0	22.75	24.00
56150	56348	QPSK	1	99	1	0	22.73	24.00
56640	56442	QPSK	1	0	1	99	22.71	24.00

CA_48C Ant2 Sensor on&Hotspot								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	18.74	20.00
55830	56028	QPSK	1	99	1	0	18.87	20.00
56150	56348	QPSK	1	99	1	0	18.83	20.00
56640	56442	QPSK	1	0	1	99	18.81	20.00