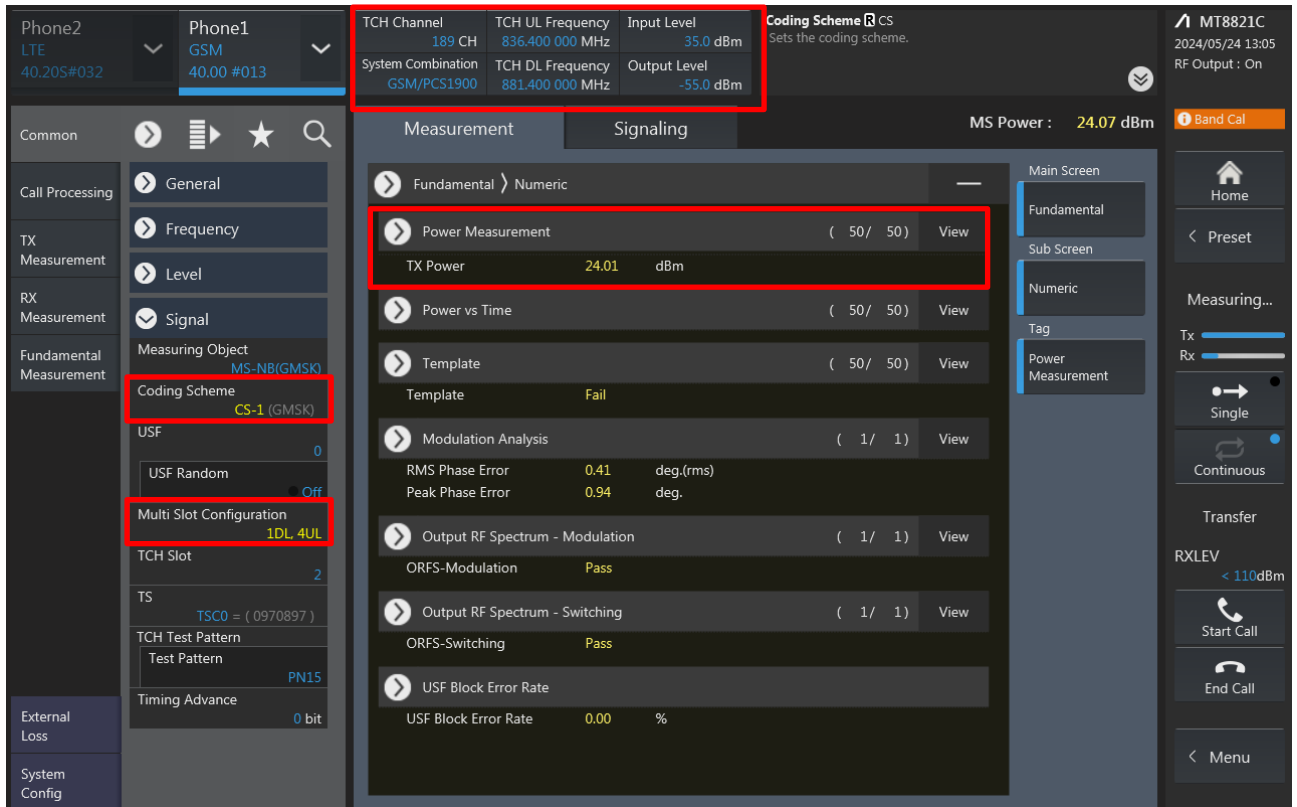


Power measurement connection diagram:

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>



The screenshot displays the configuration and measurement data for a GSM call. The interface is divided into several sections:

- Top Bar:** Shows 'Phone2 LTE 40.205#032' and 'Phone1 GSM 40.00 #013'. A table provides key parameters:

TCH Channel	189 CH	TCH UL Frequency	836.400 000 MHz	Input Level	35.0 dBm
System Combination	GSM/PCS1900	TCH DL Frequency	881.400 000 MHz	Output Level	-55.0 dBm
- Left Panel:** A menu for 'Fundamental Measurement' with 'Coding Scheme' set to 'CS-1 (GMSK)' and 'Multi Slot Configuration' set to '1DL, 4UL'.
- Measurement Section:** Shows 'MS Power : 24.07 dBm'. The 'Power Measurement' row is highlighted, showing 'TX Power 24.01 dBm'. Other metrics include 'RMS Phase Error 0.41 deg.(rms)', 'Peak Phase Error 0.94 deg.', and 'USF Block Error Rate 0.00 %'.
- Right Panel:** Includes a 'Band Cal' button, a 'Main Screen' menu, and a 'Call Control' section with 'Start Call' and 'End Call' buttons.

<WCDMA>

The screenshot shows the WCDMA measurement interface. At the top, it displays 'Phone2 LTE 40.20S#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' section is highlighted with a red box, showing 'Fundamental > Numeric' with 'Power Measurement (50 / 50)' and 'TX Power 23.28 dBm'. Other parameters include 'UL Channel 9400 CH', 'UL Frequency 1.880.000.000 MHz', 'Input Level 35.0 dBm', 'DL Channel 9800 CH', and 'DL Frequency 1.960.000.000 MHz'. The 'Output Level' is -65.7 dBm. The 'Average Count PWR_AVG' is also visible. The 'UE Power' is 22.6 dBm. The 'Meas Setup' section shows 'Power Control' set to 'All 1'. The 'System Config' section shows '10101 01010 10101' and '01010 10101 01010'.

<LTE>

The screenshot shows the LTE measurement interface. At the top, it displays 'Phone2 LTE 40.20S#021' and 'Phone1 LTE 40.20S#021'. The 'Measurement' section is highlighted with a red box, showing 'Numeric' with 'TX Power 23.01 dBm'. Other parameters include 'UL Channel 21100 ch', 'TPC Pattern All +3dB', 'Input Level 30.0 dBm', 'Operation Band 7', 'Channel Bandwidth 20 MHz', and 'Output Level -67.0 dBm'. The 'External Loss - Main DL DLEXLOSS' is also visible. The 'UE Power' is 23.4 dBm. The 'Test Parameter' section shows 'Uplink Downlink Configuration 1: (5ms) D S U U D D S U U D' and 'Special Subframe Configuration 4'. The 'System Config' section shows 'PCC SCC1 SCC2 SCC3 >>'. The 'Meas Setup' section shows 'General', 'Frequency', 'Level', 'Signal', 'UL RMC', 'DL RMC', and 'TDD'. The 'System Config' section shows '10101 01010 10101' and '01010 10101 01010'.



<LTE TDD Power class 3>

Phone2 LTE 40.20S#021 | Phone1 LTE 40.20S#021 | UL Channel 40620 ch | TPC Pattern All +3dB | Input Level 30.0 dBm | TDD - Special Subframe Configuration TDDSSFCONF | MT8821C 2024/05/31 12:39 RF Output : On

Operation Band 41 | Channel Bandwidth 20 MHz | Output Level -54.2 dBm

PCC SCC1 SCC2 SCC3 >> | Measurement | Signaling | UE Power : 23.5 dBm

Common | Physical Channel | Call Processing | TX Measurement | RX Measurement | Fundamental Measurement | Test Parameter | Band Definition | External Loss | System Config

Frequency | Level | Signal | UL RMC | DL RMC | TDD | Uplink Downlink Configuration 0 : (5ms) D S U U D S U U U | Special Subframe Configuration 5

Measurement		Signaling	
Numeric	Occupied Bandwidth	Spectrum Emission Mask	
TX Power 23.19 dBm			
Adjacent Channel Power		In-Band Emission	
Spectrum Flatness		EVM	
Phase Error		Magnitude Error	
Constellation		Throughput	

Main Screen: Fundamental, Sub Screen: Top

Home | Preset | Measuring... | Tx | Rx | Single | Continuous | Connected | Start Call | End Call | Menu

<5G NR FR1>

5G NR V08.90.21#000 *SA-FDD Power Measurement - Count PWR_AVG

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

UE Power: 26.0 dBm

Measurement

Numeric

Tx Power	25.88 dBm
OBW	18.787 MHz
ACLR(-)	-53.74 dB
ACLR(+)	-55.90 dB

Occupied Bandwidth: 18.787 MHz

Waveform: DFT-S-OFDM

Modulation: PI/2 BPSK

Aggregation Level: 4

UE Power: 26.0 dBm

5G NR V08.90.21#000 *SA-FDD Power Measurement - Count PWR_AVG

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

UE Power: 26.0 dBm

Measurement

Numeric

Tx Power	25.83 dBm
OBW	18.787 MHz
ACLR(-)	-53.70 dB
ACLR(+)	-55.93 dB

Occupied Bandwidth: 18.787 MHz

DL Subcarrier Spacing(data): 15kHz

UL Subcarrier Spacing(data): 15kHz

UE Power: 26.0 dBm



5G NR V08.90.21#000 *SA-FDD

Power Measurement - Count PWR_AVG

MT8000A
2024/05/24 14:12
Ref. Int

PCC	SCC1	SCC2
Common	Frequency	
Level / Freq Cell	UL	
Level / Freq Routing / ARB	Offset To Carrier	504
Physical Channel	PointA Channel	116048
Call Processing	PointA Frequency	580.240 000 MHz
Tx Measurement	Center Channel	136100
Rx Measurement	Center Frequency	680.500 000 MHz
OTA Position	7.5 kHz Frequency Shift	Off
Fundamental Measurement	DL	
	Offset To Carrier	102
	PointA Channel	121320
	PointA Frequency	606.600 000 MHz
	Center Channel	126900
	Center Frequency	634.500 000 MHz
Test Parameter	Absolute Frequency SSB	125550
External Loss	SSB Frequency	627.750 000 MHz
System Config	Channel Setting Mode	Lowest GSCN
	Operation Band	71

DL Center Channel	TPC Pattern	Input Level
126900	All +3dB	26.5 dBm
Operation Band	DL Channel Bandwidth	Output Level
71	20MHz	-40.0 dBm

Measurement Signaling UE Power : 25.9 dBm

Numeric	Occupied Bandwidth	Spectrum Emission Mask	
Tx Power 25.84 dBm		On	
OBW 18.787 MHz			
ACLR(-) -53.57 dB			
ACLR(+) -55.98 dB			
Adjacent Channel Power	In-Band Emission	Spectrum Flatness	
	On	On	
EVM	Phase Error	Magnitude Error	Constellation
On	On	On	On

Home

Preset

Measuring...

Tx

Rx

Single

Continuous

NR Connected

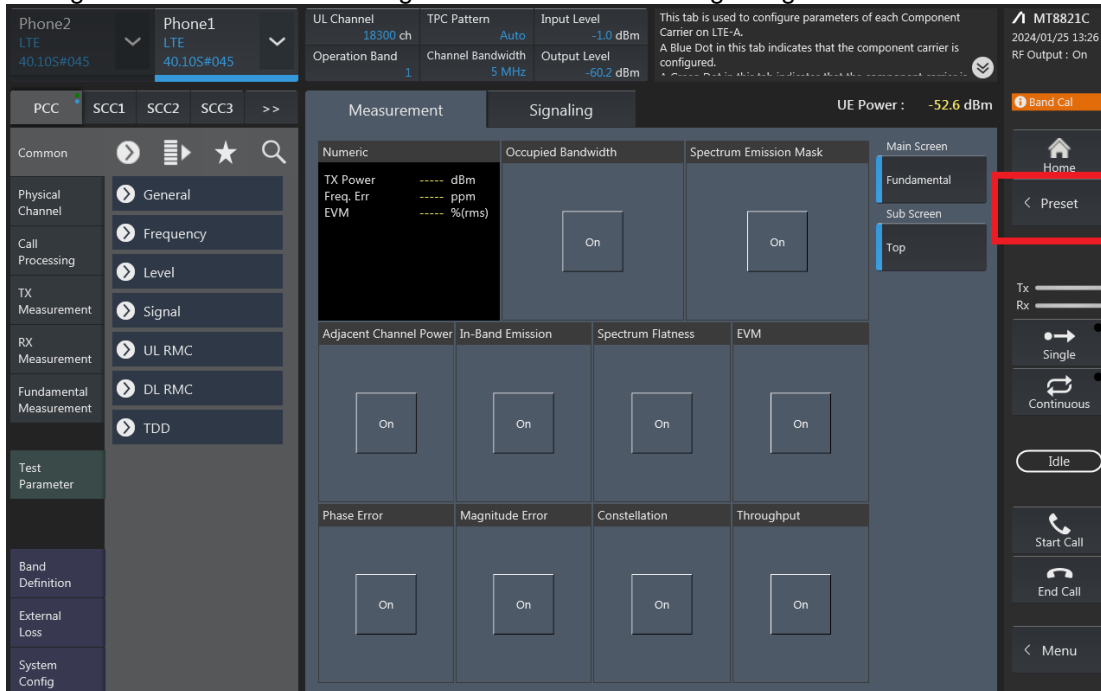
Start Call

End Call

Menu

LTE Uplink and Downlink Carrier Aggregation configurations:

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

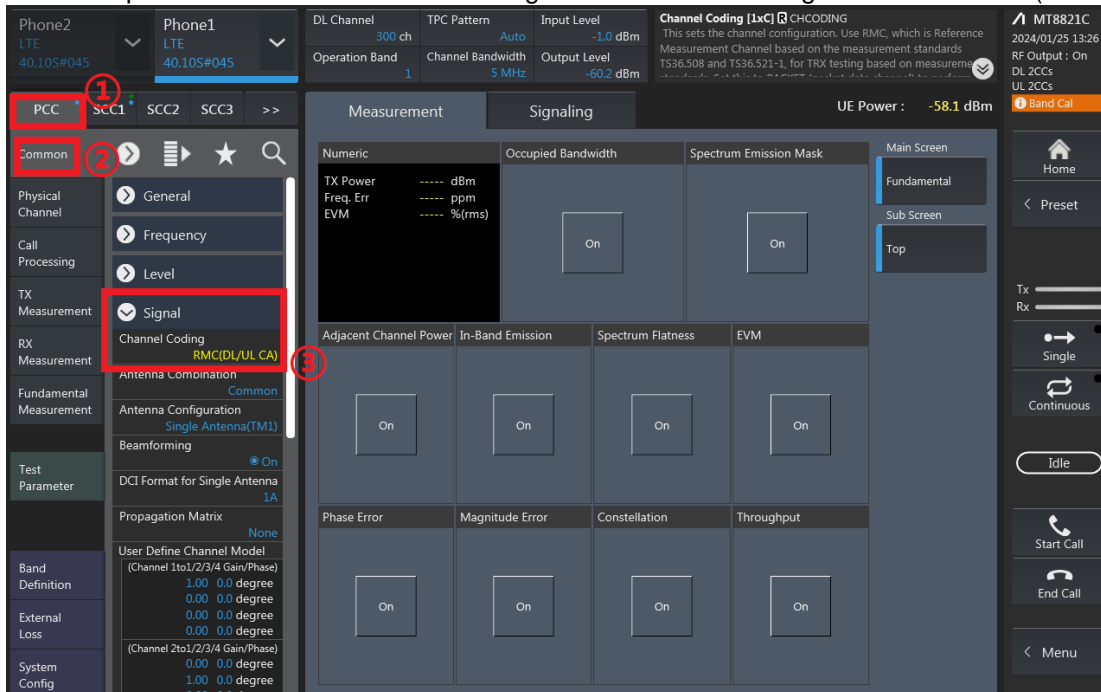


The screenshot shows the LTE configuration interface for Phone1. The 'Signaling' tab is selected, and the 'Preset' button is highlighted with a red box. The interface displays various measurement and signaling parameters, including TX Power, Occupied Bandwidth, Spectrum Emission Mask, and UE Power (-52.6 dBm).

2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.

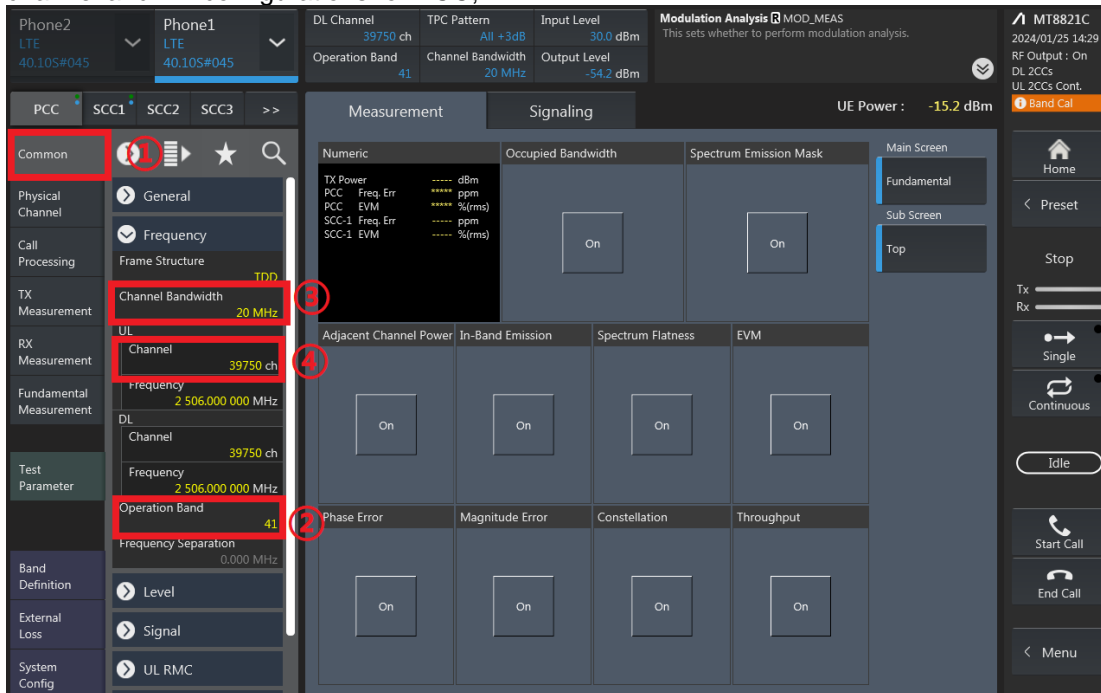
For example, Uplink Carrier Aggregation:

Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



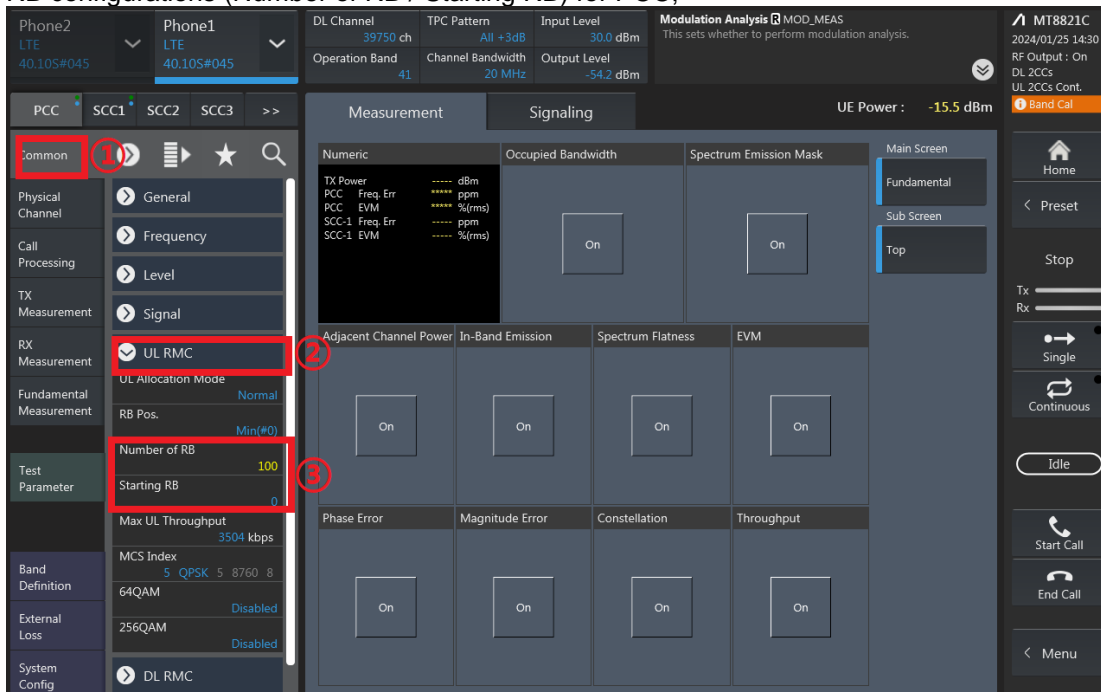
The screenshot shows the LTE configuration interface for Phone1, specifically the 'Channel Coding' configuration for Uplink Carrier Aggregation. The 'RMC (DL/UL CA)' option is selected and highlighted with a red box. The interface displays various measurement and signaling parameters, including DL Channel (300 ch), TPC Pattern (Auto), Input Level (-1.0 dBm), and UE Power (-58.1 dBm).

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



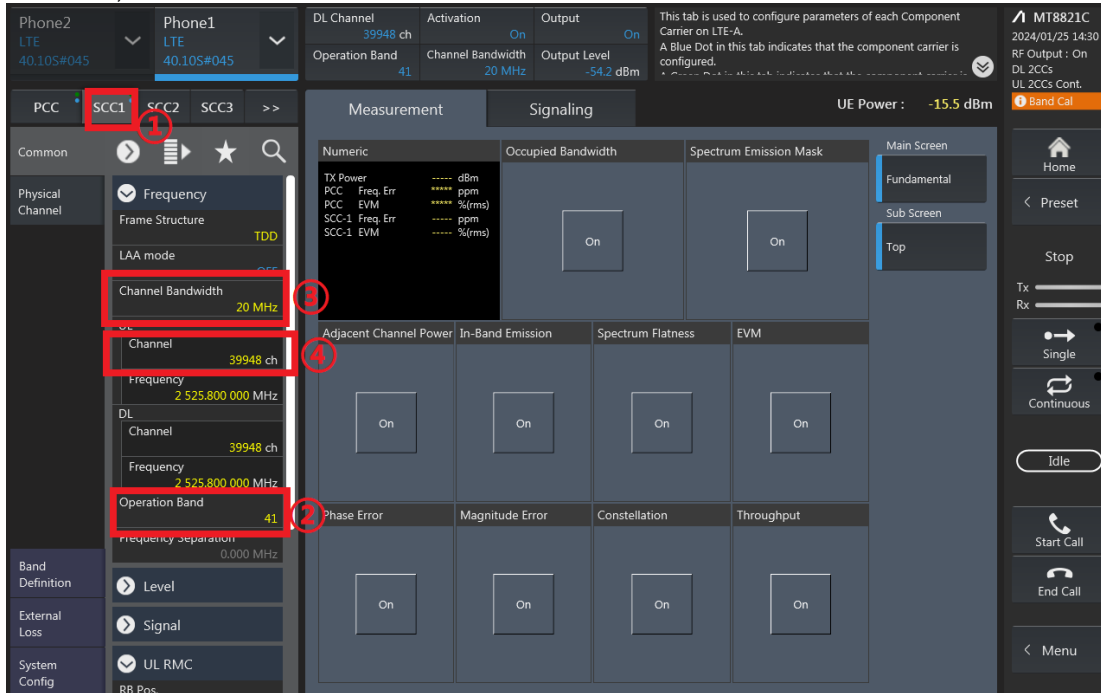
The screenshot shows the PCC parameter settings interface. The left sidebar has a menu with 'Common' selected. The main area shows 'Measurement' and 'Signaling' tabs. The 'Measurement' tab is active, showing various metrics like TX Power, Occupied Bandwidth, and Spectrum Emission Mask. The 'Signaling' tab is also visible. The 'Common' menu item is circled in red. The 'Channel Bandwidth' is set to 20 MHz, 'Channel' to 39750 ch, 'Frequency' to 2 506.000 000 MHz, and 'Operation Band' to 41. The 'UE Power' is -15.2 dBm.

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



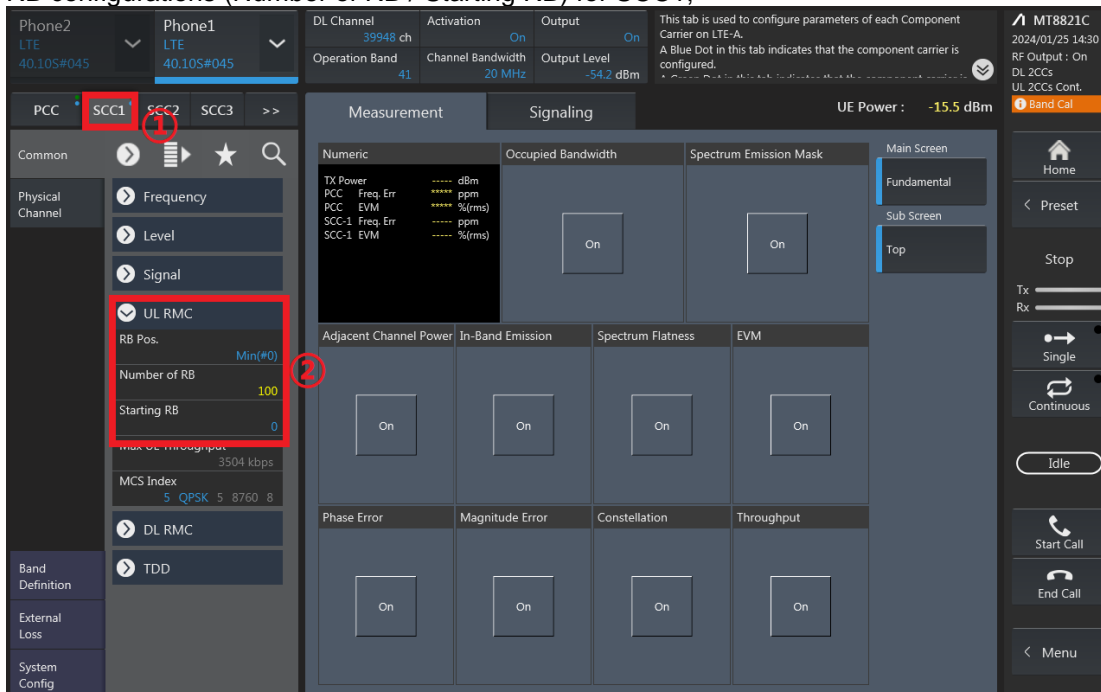
The screenshot shows the RB configurations interface. The left sidebar has a menu with 'Common' selected. The main area shows 'Measurement' and 'Signaling' tabs. The 'Measurement' tab is active, showing various metrics like TX Power, Occupied Bandwidth, and Spectrum Emission Mask. The 'Signaling' tab is also visible. The 'Common' menu item is circled in red. The 'UL RMC' is checked, 'UL Allocation Mode' is Normal, 'RB Pos.' is Min(#0), 'Number of RB' is 100, and 'Starting RB' is 0. The 'UE Power' is -15.5 dBm.

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



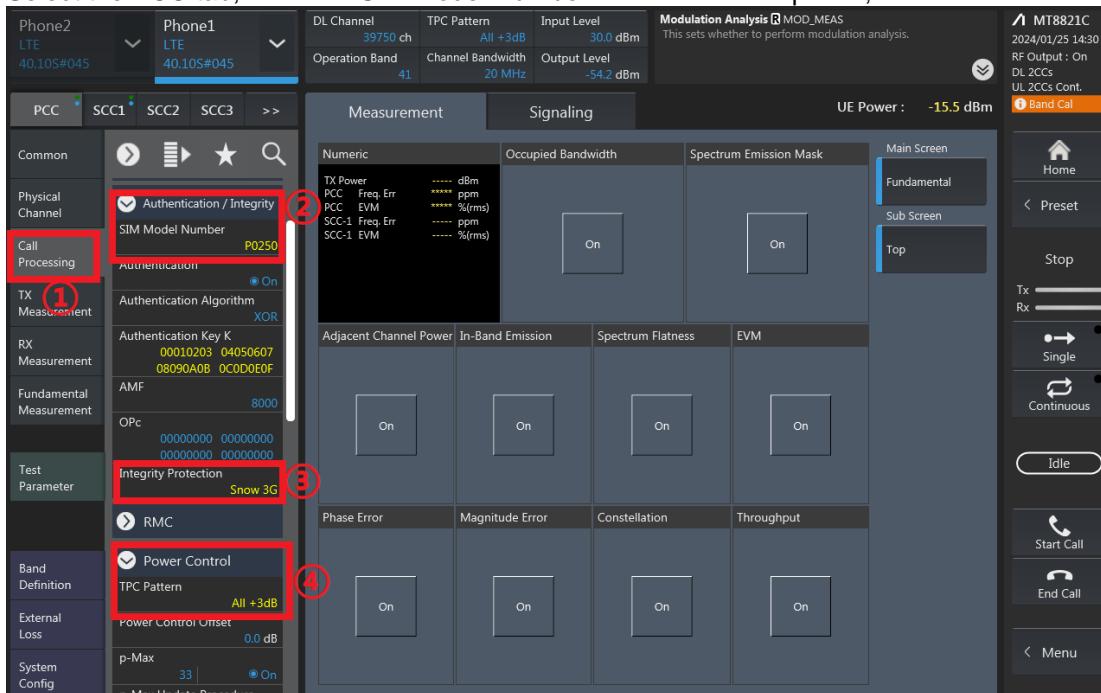
The screenshot shows the SCC1 configuration screen. The left sidebar has 'SCC1' selected. The main area shows 'DL Channel' set to 39948 ch, 'Activation' and 'Output' both 'On', 'Channel Bandwidth' at 20 MHz, and 'Operation Band' at 41. The 'Measurement' and 'Signaling' tabs are visible, with various 'On' buttons for metrics like TX Power, Occupied Bandwidth, and Spectrum Emission Mask.

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



This screenshot shows the 'UL RMC' configuration section expanded. 'Number of RB' is set to 100 and 'Starting RB' is set to 0. The 'SCC1' tab is selected in the top left. The rest of the interface, including the measurement and signaling options, remains the same as in the previous screenshot.

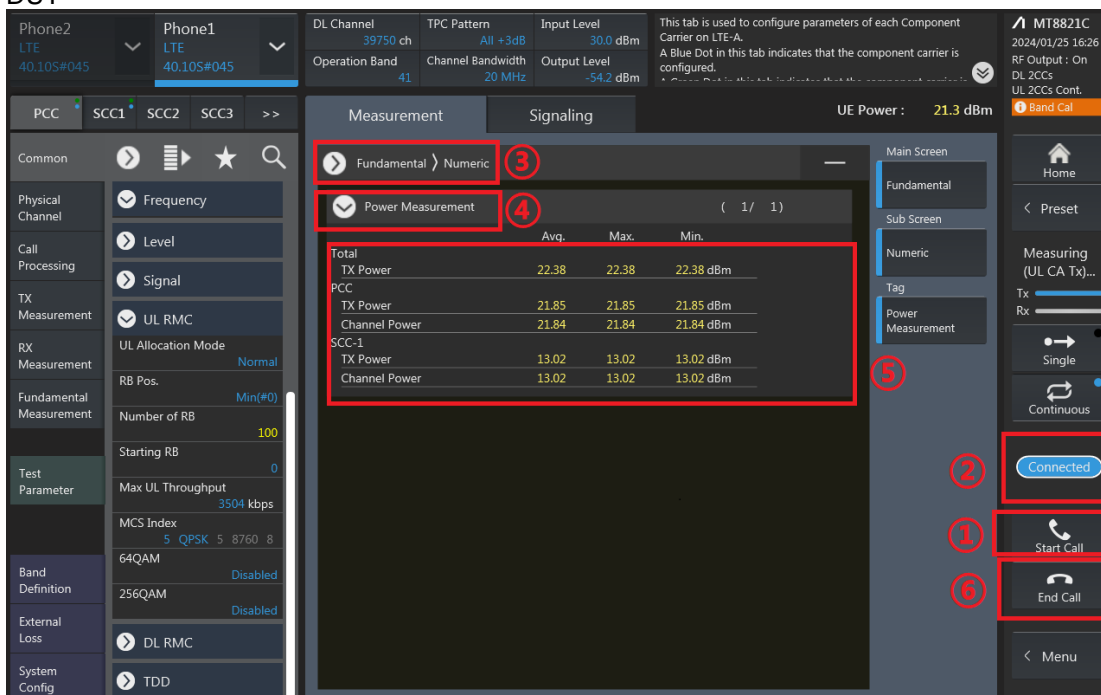
5. Select the PCC tab, then set “SIM Model Number” and select max power;



DL Channel: 39750 ch, TPC Pattern: All +3dB, Input Level: 30.0 dBm, Modulation Analysis: MOD_MEAS, UE Power: -15.5 dBm

Common: Authentication / Integrity (1), SIM Model Number: P0250 (2), Authentication: On, Authentication Algorithm: XOR, Authentication Key K: 00010203 04050607 08090A0B 0C0D0E0F, AMF: 8000, OPc: 00000000 00000000 00000000 00000000, Integrity Protection: Snow 3G (3), RMC: On, Power Control: On (4), TPC Pattern: All +3dB, Power Control Offset: 0.0 dB, p-Max: 33, p-Max Update Procedure: On

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



DL Channel: 39750 ch, TPC Pattern: All +3dB, Input Level: 30.0 dBm, UE Power: 21.3 dBm

Common: Fundamental (3), Power Measurement (4)

	Avg.	Max.	Min.
Total TX Power	22.38	22.38	22.38 dBm
PCC TX Power	21.85	21.85	21.85 dBm
PCC Channel Power	21.84	21.84	21.84 dBm
SCC-1 TX Power	13.02	13.02	13.02 dBm
SCC-1 Channel Power	13.02	13.02	13.02 dBm

Common: Connected (5), Start Call (1), End Call (6)

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

Uplink CA Power

CA_7C Ant1 Default&DSI2								
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	23.08	24.00
21100	21298	QPSK	1	99	1	0	23.17	24.00
21350	21152	QPSK	1	0	1	99	22.81	24.00

Uplink CA Power

CA_7C Ant1 DS13&DS17								
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	17.55	18.50
21100	21298	QPSK	1	99	1	0	17.61	18.50
21350	21152	QPSK	1	0	1	99	17.23	18.50

CA_7C Ant1 DS16								
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	20.05	21.00
21100	21298	QPSK	1	99	1	0	20.11	21.00
21350	21152	QPSK	1	0	1	99	19.79	21.00



Downlink CA Power

2CA DL

CA List	PCC										SCC				Power		
	LTE Band	BW	BW	UL	UL	Mod	UL#	UL	DL Antenna Configuration	UL#	UL	LTE Band	BW	DL	DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
	Ant	(MHz)	(MHz)	Channel	Channel		RB	RB	Offset	RB	RB	(MHz)	(MHz)	Channel			
CA_2A-2A	Band 2	Ant 0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.93	23.05	
	Band 2	Ant 4	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	20.44	20.59	
CA_2A-26A	Band 2	Ant 0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	885		22.84	23.05	
	Band 2	Ant 4	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	885		20.98	21.09	
CA_26A-66A	Band 26	Ant 0	15M	831.5	866.5	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	22.85	22.94	
	Band 26	Ant 0	15M	831.5	866.5	QPSK	1	0		Band 66	20M	2155	6688	4x4MIMO	22.96	22.94	
CA_4A-4A	Band 66	Ant 0	20M	1745	13232	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	885		22.88	22.99	
	Band 66	Ant 4	20M	1745	13232	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	885		20.74	20.89	
CA_5A-7A	Band 4	Ant 0	20M	1732.5	2017.5	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.76	22.91	
	Band 4	Ant 4	20M	1732.5	2017.5	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	20.63	20.73	
CA_7A-26A	Band 5	Ant 0	10M	836.5	2052.5	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.72	22.83	
	Band 5	Ant 4	10M	836.5	2052.5	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	20.45	20.63	
CA_7A-42A	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.07	23.21	
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	885		23.09	23.21	
CA_38C	Band 26	Ant 0	15M	831.5	2096.5	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.96	22.94	
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42500	4x4MIMO	23.90	23.21	
CA_41A-42A	Band 42	Ant 5	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.48	23.71	
	Band 41	Ant 4	20M	2593	40620	QPSK	1	0		Band 38	20M	2599.8	38048		23.28	23.43	
CA_41C	Band 41	Ant 4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.43	23.49	
	Band 42	Ant 5	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620		23.63	23.71	
CA_66B	Band 41	Ant 4	20M	2593	40620	QPSK	1	0		Band 41	20M	2612.8	40818		23.26	23.49	
	Band 42	Ant 5	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.55	23.71	
CA_56C	Band 66	Ant 0	15M	1745	13232	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.85	22.99	
	Band 66	Ant 4	15M	1745	13232	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	20.70	20.89	
CA_56C	Band 66	Ant 0	20M	1745	13232	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.82	22.99	
	Band 66	Ant 4	20M	1745	13232	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	20.74	20.89	



3CA DL

3CA List	PCC										SCC1				SCC2				Power	
	LTE	BW	BW	UL	UL	UL#	UL		LTE	BW	DL	DL	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset	DL Antenna Configuration	Band	(MHz)	Freq. (MHz)	Channel	DL Antenna Configuration	(MHz)	Channel	DL Antenna Configuration	Tx Power (dBm)	Tx Power (dBm)	
CA_2A-4A-5A	Band 2	Art 0	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 4	20M	2132.5	2175	4+4MMIMO	Band 5	10M	881.5	2525	22.98	23.05
	Band 2	Art 4	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 4	20M	2132.5	2175	4+4MMIMO	Band 5	10M	881.5	2525	20.52	20.59
	Band 2	Art 0	20M	1732.5	20175	QPSK	1	0	4+4MMIMO	Band 5	10M	881.5	2525	4+4MMIMO	Band 2	20M	1960	900	22.89	22.91
	Band 4	Art 4	20M	1732.5	20175	QPSK	1	0	4+4MMIMO	Band 5	10M	881.5	2525	4+4MMIMO	Band 2	20M	1960	900	20.63	20.73
CA_2A-4A-7A	Band 2	Art 0	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 2	20M	1960	900	4+4MMIMO	Band 4	20M	2132.5	2175	22.60	22.83
	Band 5	Art 4	10M	836.5	20525	QPSK	1	0	4+4MMIMO	Band 2	20M	1960	900	4+4MMIMO	Band 4	20M	2132.5	2175	20.40	20.63
	Band 2	Art 0	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 4	20M	2132.5	2175	4+4MMIMO	Band 7	20M	2655	3100	22.68	23.05
	Band 4	Art 4	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 4	20M	2132.5	2175	4+4MMIMO	Band 7	20M	2655	3100	20.47	20.59
CA_2A-5A-66A	Band 2	Art 0	20M	1732.5	20175	QPSK	1	0	4+4MMIMO	Band 7	20M	2655	3100	4+4MMIMO	Band 2	20M	1960	900	22.74	22.91
	Band 4	Art 4	20M	1732.5	20175	QPSK	1	0	4+4MMIMO	Band 7	20M	2655	3100	4+4MMIMO	Band 2	20M	1960	900	20.66	20.73
	Band 4	Art 1	20M	2535	21100	QPSK	1	0	4+4MMIMO	Band 2	20M	1960	900	4+4MMIMO	Band 4	20M	2132.5	2175	23.05	23.21
	Band 2	Art 0	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 5	10M	881.5	2525	4+4MMIMO	Band 66	20M	2155	66886	22.88	23.05
CA_2A-7A-7A	Band 2	Art 4	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 5	10M	881.5	2525	4+4MMIMO	Band 66	20M	2155	66886	21.39	20.59
	Band 5	Art 0	10M	836.5	20525	QPSK	1	0	4+4MMIMO	Band 66	20M	2155	66886	4+4MMIMO	Band 2	20M	1960	900	22.69	22.83
	Band 5	Art 4	10M	836.5	20525	QPSK	1	0	4+4MMIMO	Band 66	20M	2155	66886	4+4MMIMO	Band 2	20M	1960	900	20.63	20.63
	Band 66	Art 0	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 2	20M	1960	900	4+4MMIMO	Band 5	10M	881.5	2525	22.79	22.99
CA_2A-7A-7A	Band 66	Art 4	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 2	20M	1960	900	4+4MMIMO	Band 5	10M	881.5	2525	20.80	20.89
	Band 2	Art 0	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 7	20M	2655	3100	4+4MMIMO	Band 7	5M	2087.5	3425	22.82	23.05
	Band 66	Art 4	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 7	20M	2655	3100	4+4MMIMO	Band 7	5M	2087.5	3425	20.41	20.59
	Band 7	Art 1	20M	2535	21100	QPSK	1	0	4+4MMIMO	Band 7	5M	2087.5	3425	4+4MMIMO	Band 2	20M	1960	900	23.05	23.21
CA_2A-7A-66A	Band 2	Art 0	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 66	20M	2155	66886	4+4MMIMO	Band 7	20M	2655	3100	22.97	23.05
	Band 2	Art 4	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 66	20M	2155	66886	4+4MMIMO	Band 7	20M	2655	3100	20.40	20.59
	Band 7	Art 1	20M	2535	21100	QPSK	1	0	4+4MMIMO	Band 2	20M	1960	900	4+4MMIMO	Band 66	20M	2155	66886	23.00	23.21
	Band 66	Art 0	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 7	20M	2655	3100	4+4MMIMO	Band 2	20M	1960	900	22.81	22.99
CA_2A-7C	Band 66	Art 4	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 7	20M	2655	3100	4+4MMIMO	Band 2	20M	1960	900	20.71	20.89
	Band 2	Art 0	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 7	20M	2655	3100	4+4MMIMO	Band 7	20M	2554.8	3298	22.58	23.05
	Band 7	Art 1	20M	2535	21100	QPSK	1	0	4+4MMIMO	Band 7	20M	2655	3100	4+4MMIMO	Band 7	20M	2554.8	3298	20.44	20.59
	Band 2	Art 4	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 7	20M	2655	3100	4+4MMIMO	Band 2	20M	1960	900	22.99	23.21
CA_4A-66A	Band 2	Art 0	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 66	20M	2155	66886	4+4MMIMO	Band 66	5M	2197.5	67311	22.98	23.05
	Band 66	Art 4	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 66	20M	2155	66886	4+4MMIMO	Band 66	5M	2197.5	67311	20.39	20.59
	Band 66	Art 0	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 66	5M	2197.5	67311	4+4MMIMO	Band 2	20M	1960	900	22.89	22.99
	Band 66	Art 4	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 66	5M	2197.5	67311	4+4MMIMO	Band 2	20M	1960	900	20.66	20.89
CA_2C-66A	Band 2	Art 0	20M	1880	1890	QPSK	1	0	4+4MMIMO	Band 2	20M	1979.8	1098	4+4MMIMO	Band 66	20M	2155	66886	22.82	23.05
	Band 66	Art 4	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 2	20M	1979.8	1098	4+4MMIMO	Band 66	20M	2155	66886	20.43	20.59
	Band 66	Art 0	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 2	20M	1960	900	4+4MMIMO	Band 2	20M	1979.8	1098	22.77	22.99
	Band 66	Art 4	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 2	20M	1960	900	4+4MMIMO	Band 2	20M	1979.8	1098	20.72	20.89
CA_4A-7C	Band 4	Art 0	20M	1732.5	20175	QPSK	1	0	4+4MMIMO	Band 7	20M	2655	3100	4+4MMIMO	Band 7	20M	2554.8	3298	22.73	22.91
	Band 4	Art 4	20M	1732.5	20175	QPSK	1	0	4+4MMIMO	Band 7	20M	2655	3100	4+4MMIMO	Band 7	20M	2554.8	3298	20.62	20.73
	Band 7	Art 1	20M	2535	21100	QPSK	1	0	4+4MMIMO	Band 7	20M	2554.8	3298	4+4MMIMO	Band 4	20M	2132.5	2175	23.12	23.21
	Band 5	Art 0	10M	836.5	20525	QPSK	1	0	4+4MMIMO	Band 66	20M	2155	66886	4+4MMIMO	Band 66	5M	2197.5	67311	22.71	22.83
CA_5A-66A-66A	Band 5	Art 4	10M	836.5	20525	QPSK	1	0	4+4MMIMO	Band 66	20M	2155	66886	4+4MMIMO	Band 66	5M	2197.5	67311	20.52	20.63
	Band 66	Art 0	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 66	5M	2197.5	67311	4+4MMIMO	Band 5	10M	881.5	2525	22.83	22.99
	Band 66	Art 4	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 66	5M	2197.5	67311	4+4MMIMO	Band 5	10M	881.5	2525	20.73	20.89
	Band 66	Art 0	20M	1745	132322	QPSK	1	0	4+4MMIMO	Band 66	5M	2197.5	67311	4+4MMIMO	Band 5	10M	881.5	2525	20.73	20.89