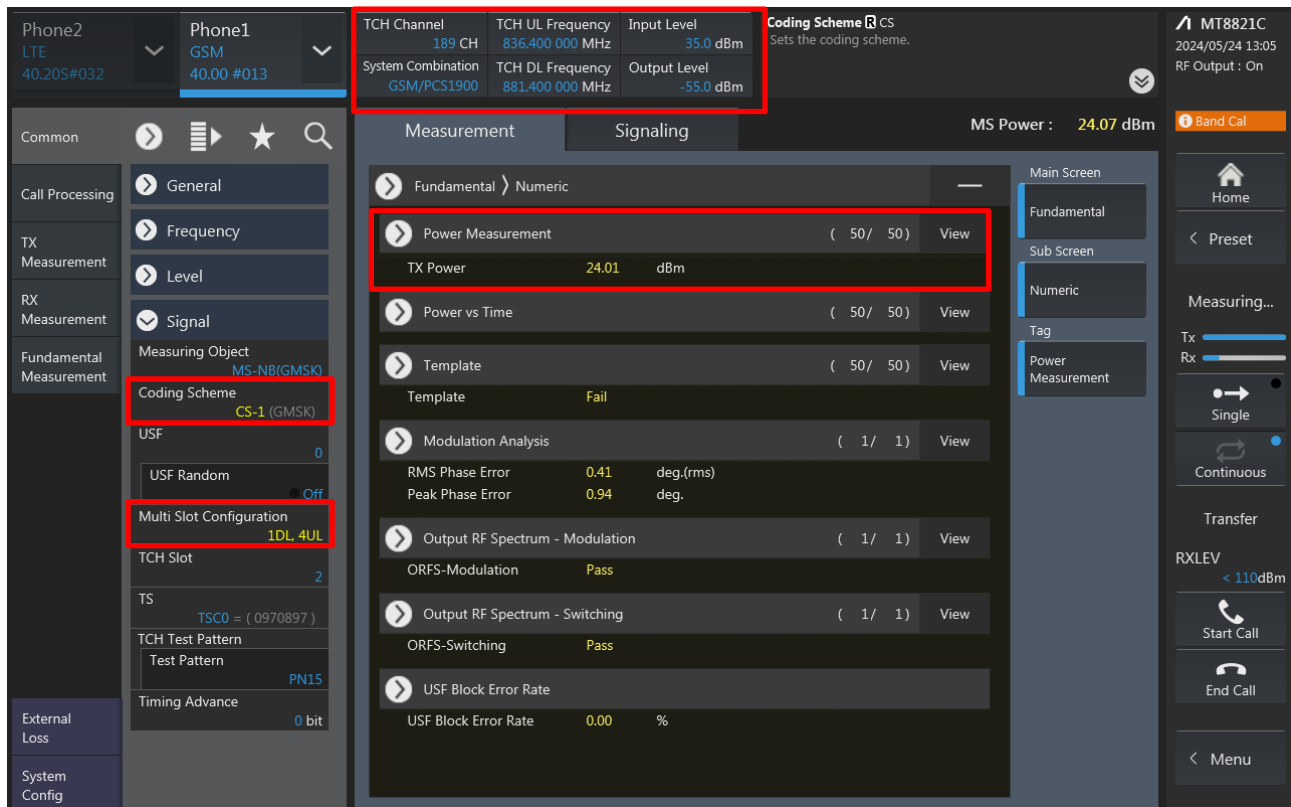


Power measurement connection diagram:

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.

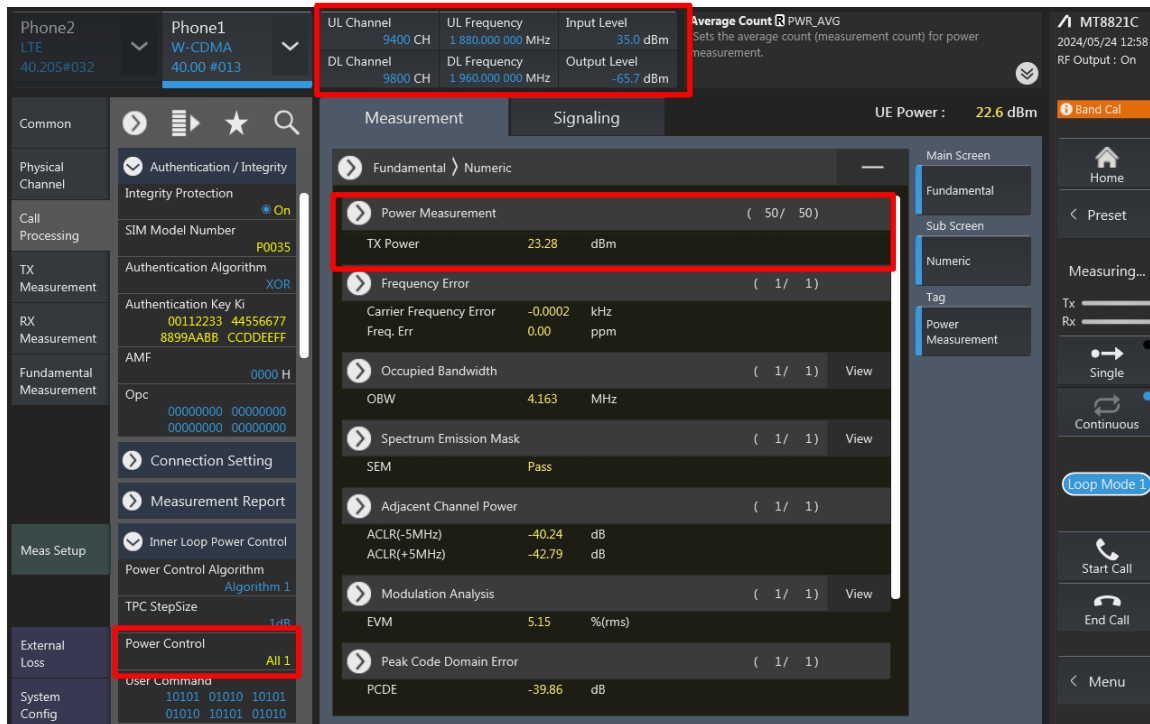
<GSM>



The screenshot displays the SPORTON LAB. software interface for GSM power measurement. The interface is divided into several sections:

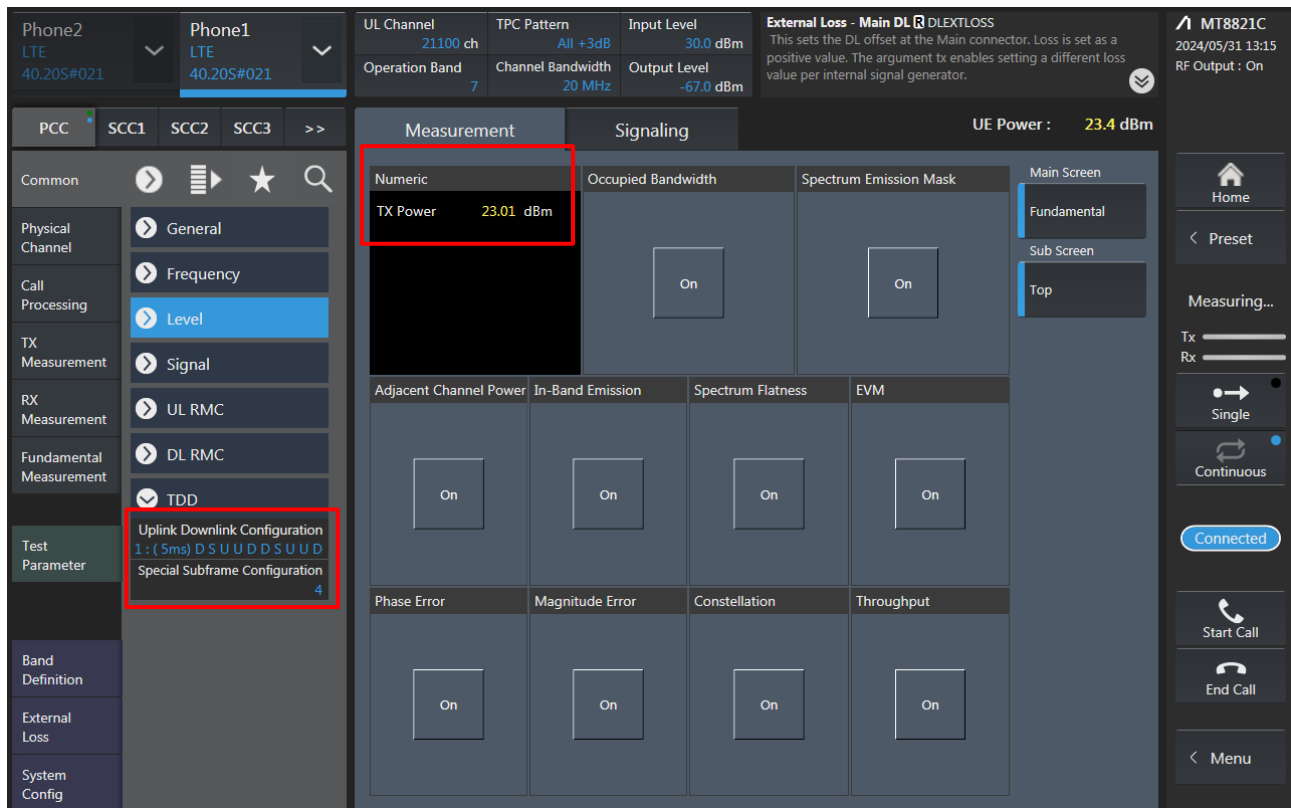
- Top Bar:** Shows Phone2 (LTE, 40.205#032) and Phone1 (GSM, 40.00 #013). The TCH Channel is 189 CH, TCH UL Frequency is 836.400 000 MHz, Input Level is 35.0 dBm, and TCH DL Frequency is 881.400 000 MHz. The Coding Scheme is CS.
- Left Sidebar:** Contains navigation options like Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, and External Loss.
- Main Area:**
 - Measurement Tab:** Displays various measurement results. The 'Power Measurement' section shows TX Power as 24.01 dBm. Other sections include Power vs Time, Template, Modulation Analysis, Output RF Spectrum - Modulation, Output RF Spectrum - Switching, and USF Block Error Rate.
 - Signaling Tab:** Shows signaling information.
- Right Sidebar:** Includes a 'Band Cal' button, a 'Main Screen' section with 'Fundamental' and 'Sub Screen' options, and a 'Tag' section with 'Power Measurement'.

<WCDMA>



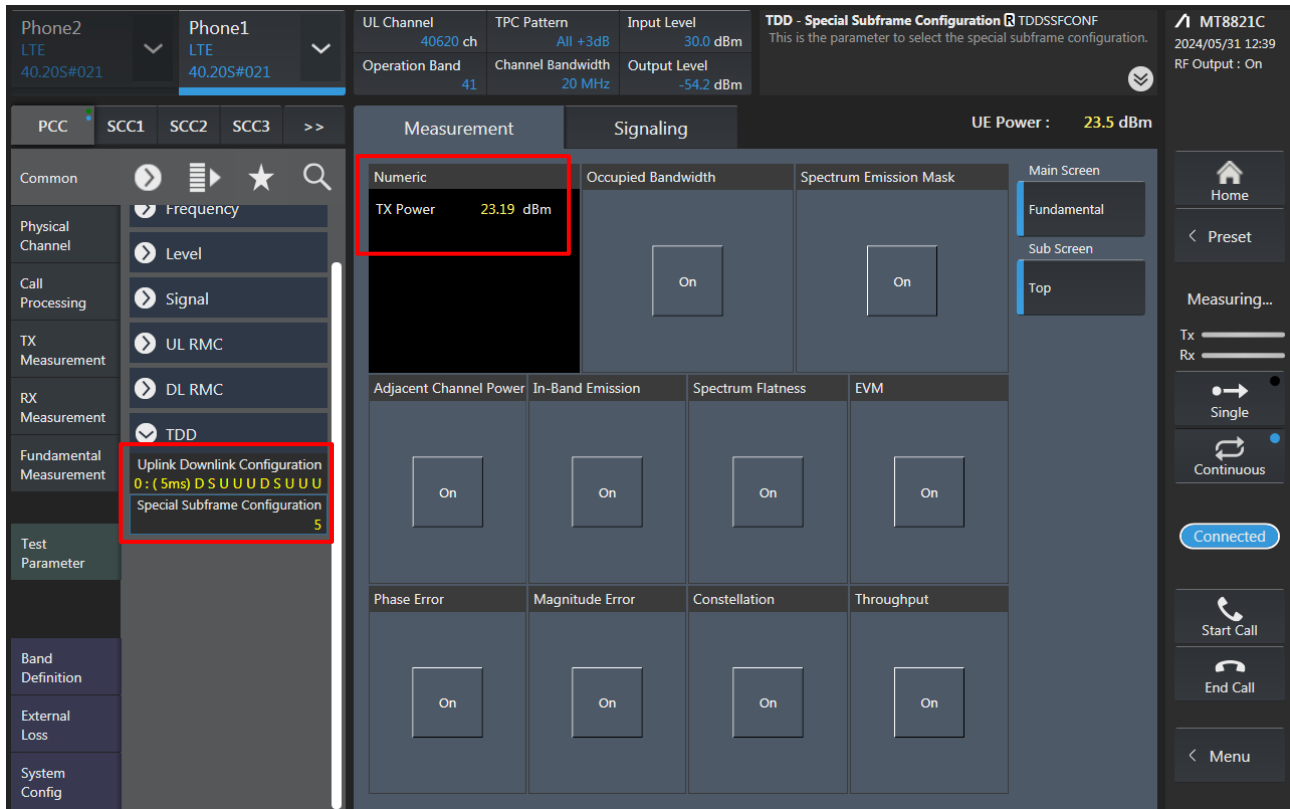
The screenshot shows the WCDMA measurement interface. The top bar displays 'Phone2 LTE 40.20S#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' tab is active, showing 'Fundamental' and 'Numeric' views. The 'Power Measurement' section is highlighted with a red box, showing 'TX Power' as 23.28 dBm. The 'Occupied Bandwidth' section shows 'OBW' as 4.163 MHz. The 'Adjacent Channel Power' section shows 'ACLR(-5MHz)' as -40.24 dB and 'ACLR(+5MHz)' as -42.79 dB. The 'Modulation Analysis' section shows 'EVM' as 5.15 % (rms). The 'Peak Code Domain Error' section shows 'PCDE' as -39.86 dB. The 'UE Power' is 22.6 dBm. The 'Band Cal' button is visible on the right. The 'Meas Setup' section on the left shows 'Power Control' set to 'All 1'.

<LTE>



The screenshot shows the LTE measurement interface. The top bar displays 'Phone2 LTE 40.20S#021' and 'Phone1 LTE 40.20S#021'. The 'Measurement' tab is active, showing 'Numeric' and 'Occupied Bandwidth' views. The 'Power Measurement' section is highlighted with a red box, showing 'TX Power' as 23.01 dBm. The 'Occupied Bandwidth' section shows 'OBW' as 20 MHz. The 'Adjacent Channel Power' section shows 'ACLR(-5MHz)' as -40.24 dB and 'ACLR(+5MHz)' as -42.79 dB. The 'Modulation Analysis' section shows 'EVM' as 5.15 % (rms). The 'Peak Code Domain Error' section shows 'PCDE' as -39.86 dB. The 'UE Power' is 23.4 dBm. The 'Band Cal' button is visible on the right. The 'Meas Setup' section on the left shows 'Uplink Downlink Configuration' set to '1: (5ms) D S U U D D S U U D' and 'Special Subframe Configuration' set to '4'.

<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

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

TDD - Special Subframe Configuration TDDSSFCNF This is the parameter to select the special subframe configuration.

MT8821C 2024/05/31 12:39 RF Output : On

UE Power : 23.5 dBm

Measurement Signaling

Numeric TX Power 23.19 dBm

Occupied Bandwidth Spectrum Emission Mask

On On

Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

On On On On

Phase Error Magnitude Error Constellation Throughput

On On On On

Uplink Downlink Configuration 0: (5ms) D S U U D S U U U

Special Subframe Configuration 5

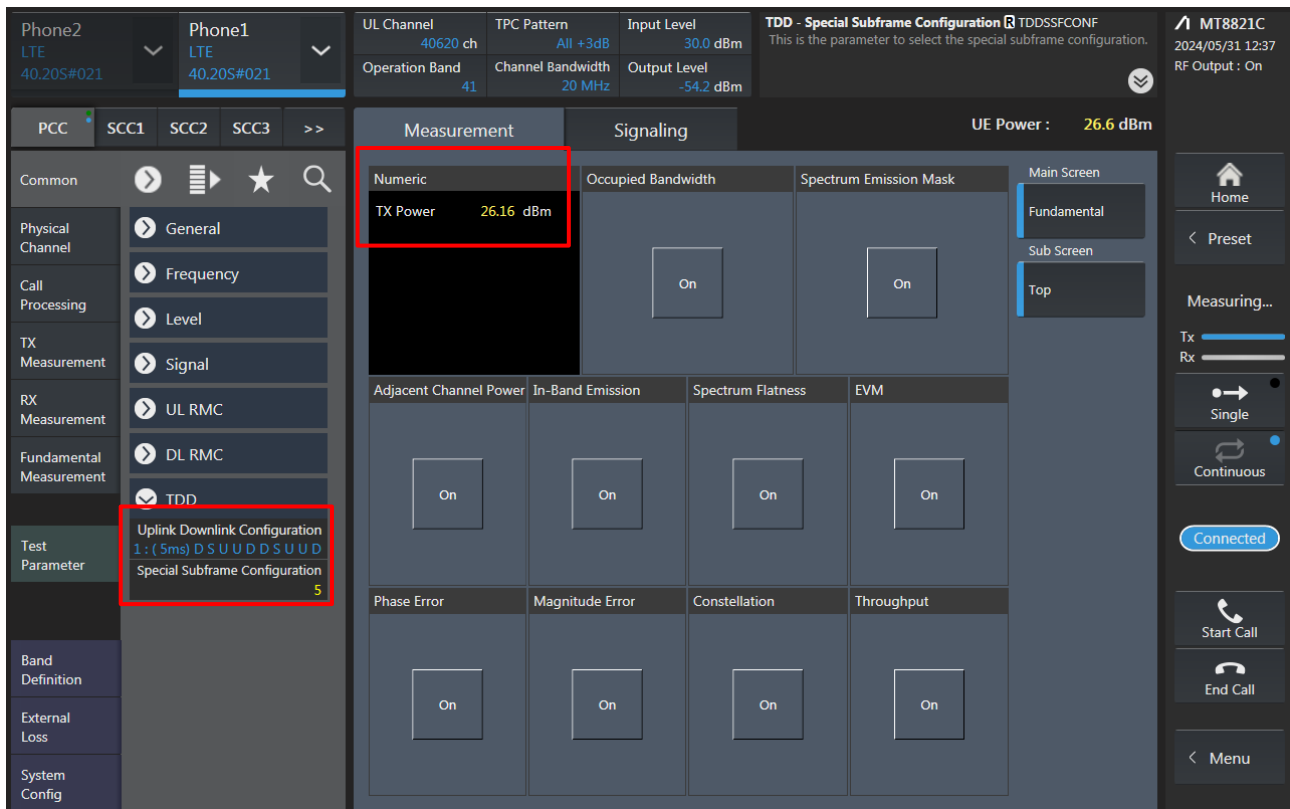
Common Physical Channel Call Processing TX Measurement RX Measurement Fundamental Measurement Test Parameter Band Definition External Loss System Config

Frequency Level Signal UL RMC DL RMC TDD

Main Screen Fundamental Sub Screen Top

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

<LTE TDD Power class 2>



Phone2 LTE 40.20S#021 Phone1 LTE 40.20S#021

UL Channel 40620 ch TPC Pattern All +3dB Input Level 30.0 dBm

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

TDD - Special Subframe Configuration TDDSSFCNF This is the parameter to select the special subframe configuration.

MT8821C 2024/05/31 12:37 RF Output : On

UE Power : 26.6 dBm

Measurement Signaling

Numeric TX Power 26.16 dBm

Occupied Bandwidth Spectrum Emission Mask

On On

Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

On On On On

Phase Error Magnitude Error Constellation Throughput

On On On On

Uplink Downlink Configuration 1: (5ms) D S U U D D S U U D

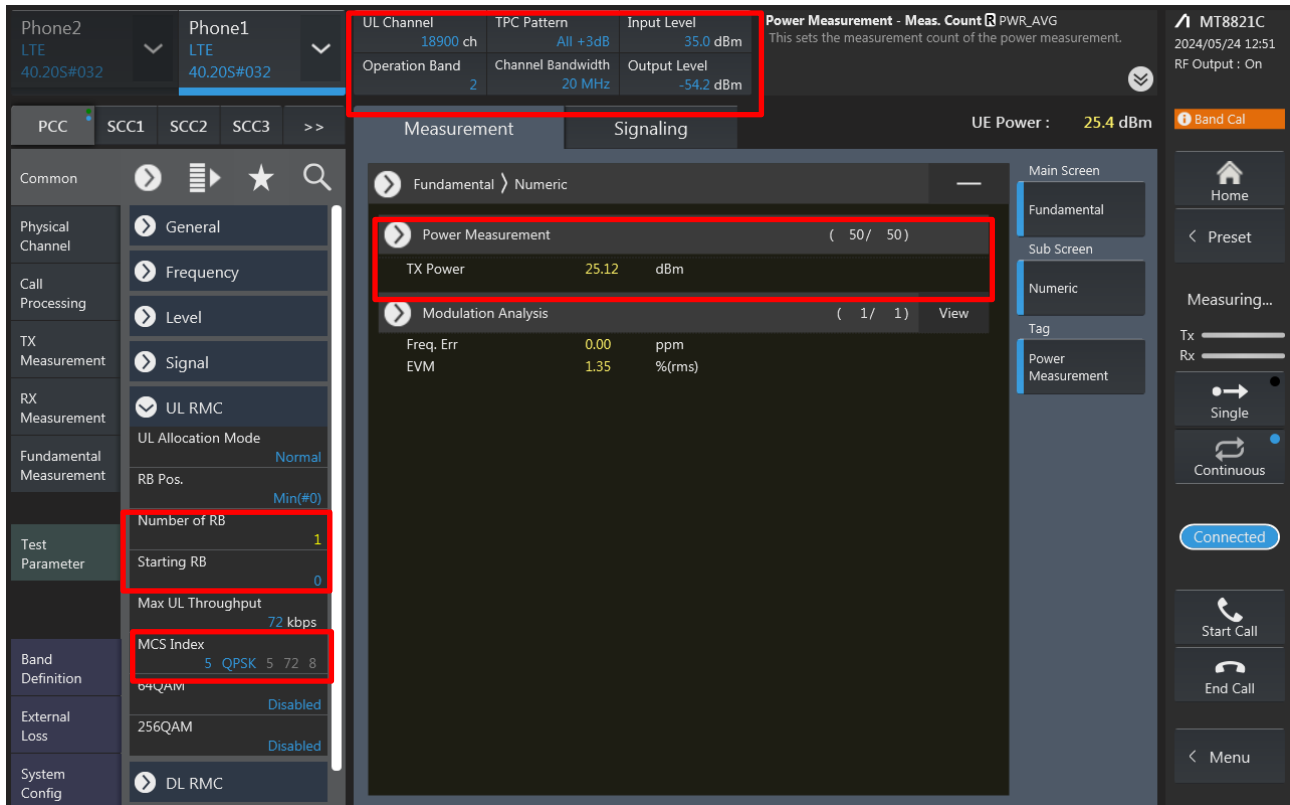
Special Subframe Configuration 5

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

Main Screen Fundamental Sub Screen Top

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



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

UE Power : 25.4 dBm

Measurement 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)

Test Parameter

Number of RB 1

Starting RB 0

Max UL Throughput 72 kbps

MCS Index 5 QPSK 5 72 8

Band Definition 64QAM

External Loss 256QAM Disabled

System Config DL RMC

MT8821C 2024/05/24 12:51 RF Output : On

Home

Preset

Measuring...

Tx

Rx

Single

Continuous

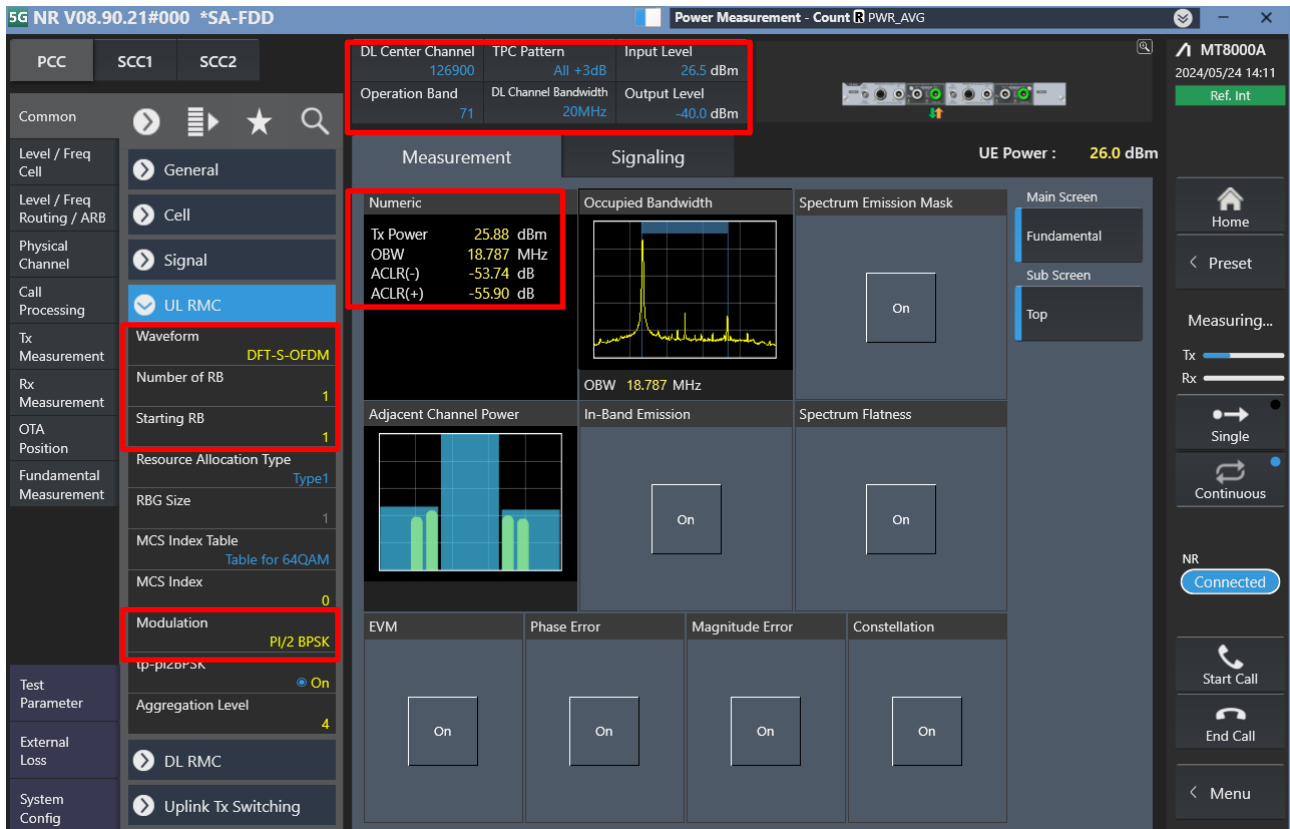
Connected

Start Call

End Call

Menu

<5G NR FR1>



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

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

Power Measurement - Count PWR_AVG

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

Spectrum Emission Mask On

Adjacent Channel Power On

In-Band Emission On

Spectrum Flatness On

EVM On

Phase Error On

Magnitude Error On

Constellation On

Test Parameter

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

Aggregation Level 4

DL RMC

Uplink Tx Switching

MT8000A 2024/05/24 14:11 Ref. Int

Home

Preset

Measuring...

Tx

Rx

Single

Continuous

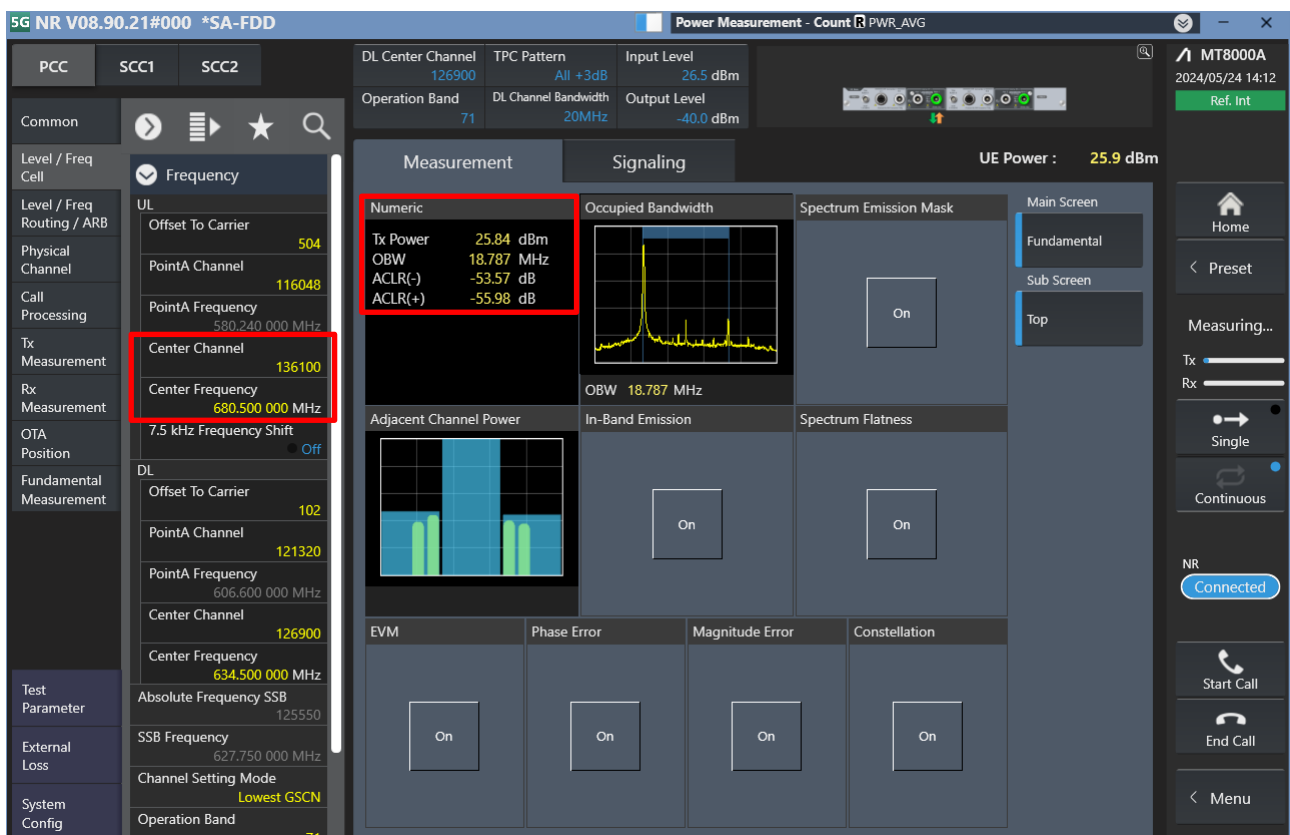
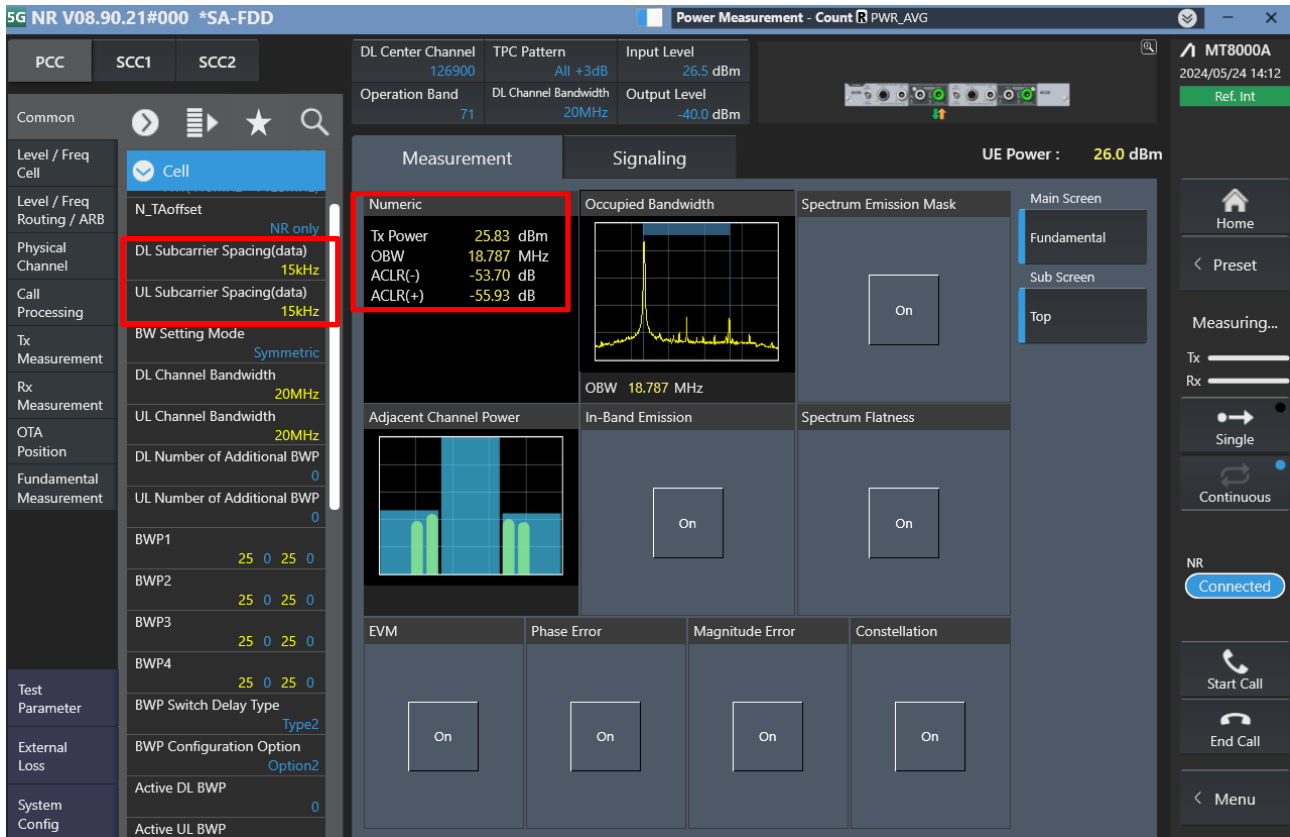
NR

Connected

Start Call

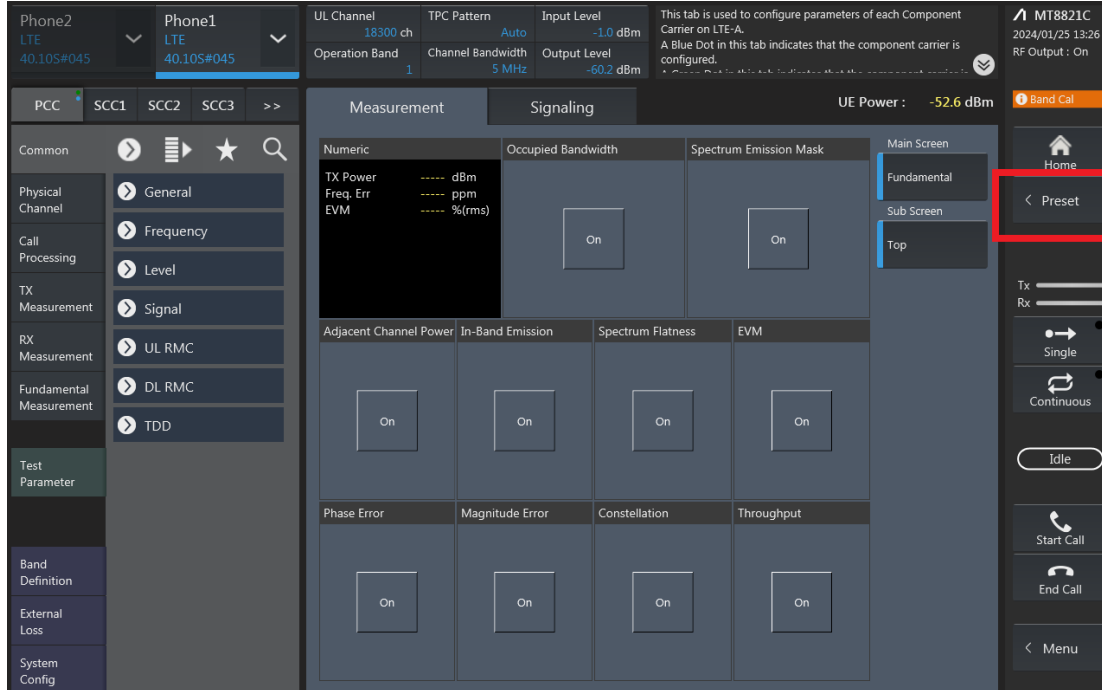
End Call

Menu



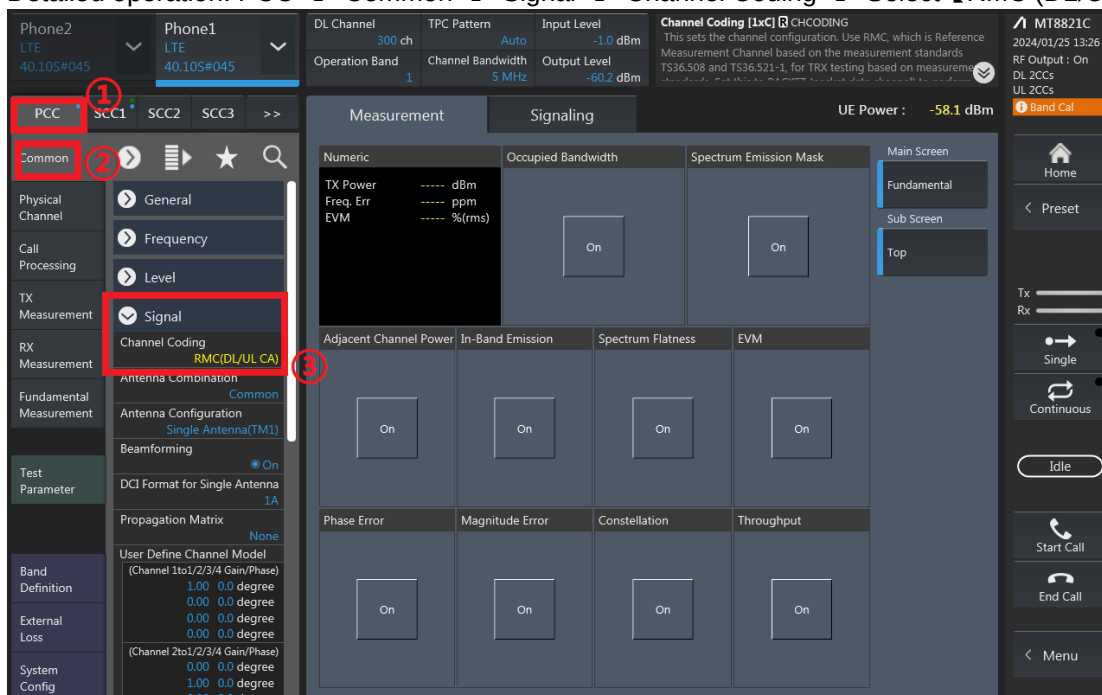
LTE Uplink and Downlink Carrier Aggregation configurations:

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

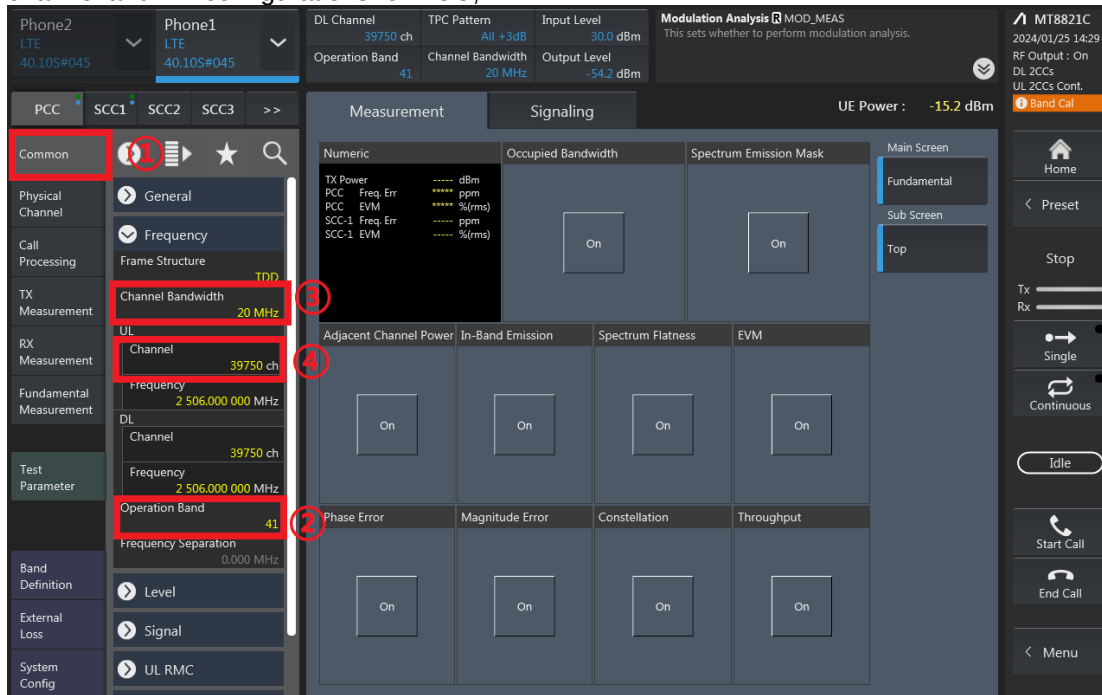


2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:

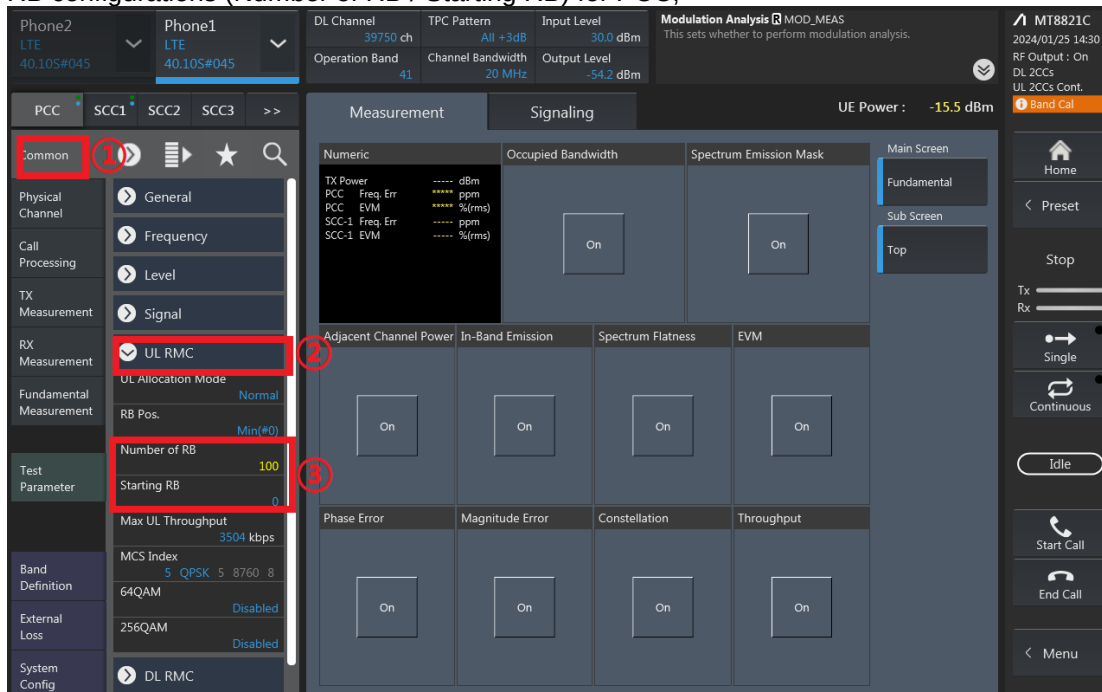
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



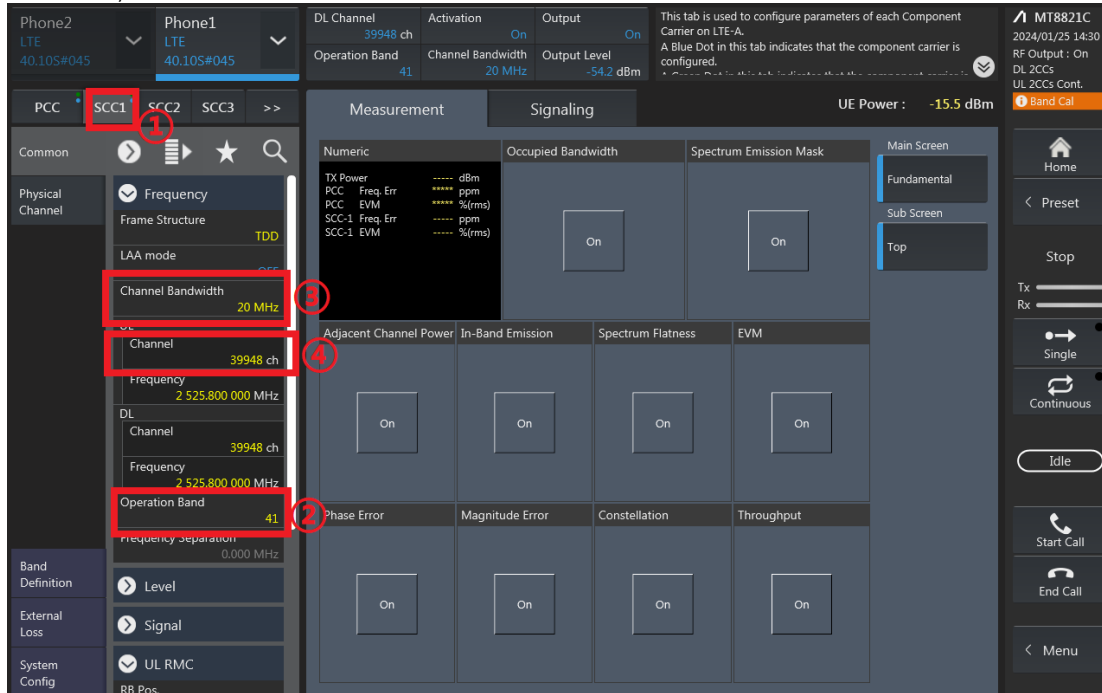
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



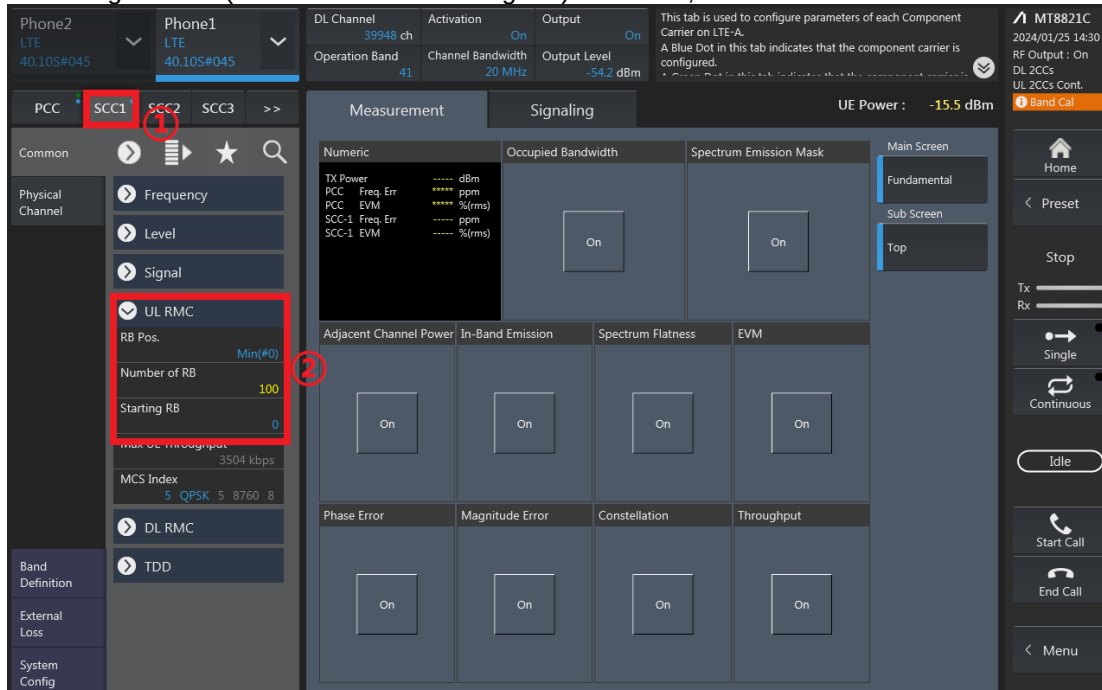
RB configurations (Number of RB / Starting RB) for PCC;



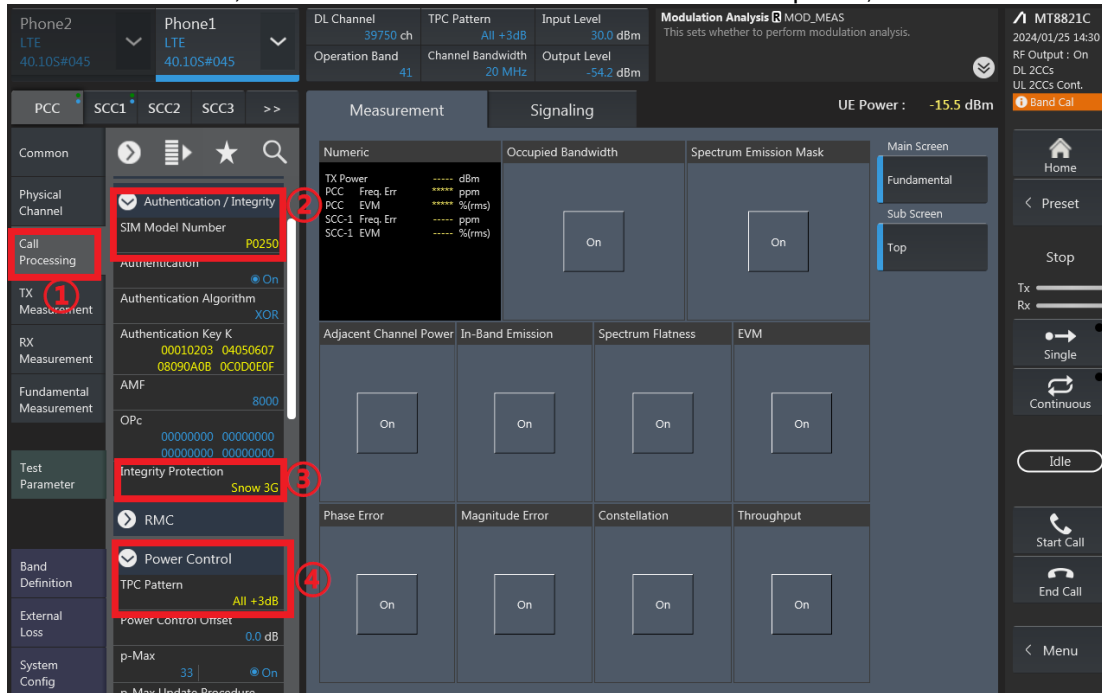
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



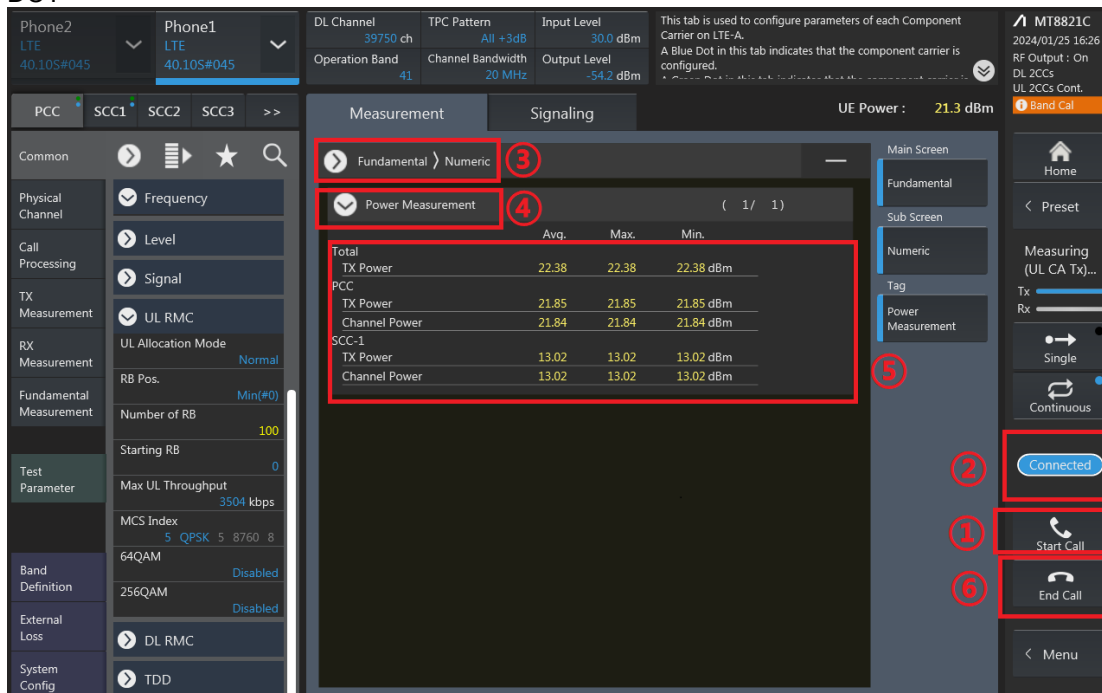
RB configurations (Number of RB / Starting RB) for SCC1;



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.

<Intra-Band Power Measurement>

【CA_2C_Ant 4_Full Power】

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		
18700	18898	QPSK	1	99	1	0	22.91	24.00
18900	19098	QPSK	1	99	1	0	22.98	24.00
19100	18902	QPSK	1	0	1	99	22.95	24.00

【CA_2C_Ant 4_DSI 4】

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		
18700	18898	QPSK	1	99	1	0	22.91	24.00
18900	19098	QPSK	1	99	1	0	22.98	24.00
19100	18902	QPSK	1	0	1	99	22.95	24.00

【CA_2C_Ant 4_DSI 2】

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		
18700	18898	QPSK	1	99	1	0	16.98	18.40
18900	19098	QPSK	1	99	1	0	17.03	18.40
19100	18902	QPSK	1	0	1	99	16.92	18.40

【CA_2C_Ant 4_DSI 3】

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		
18700	18898	QPSK	1	99	1	0	19.28	20.60
18900	19098	QPSK	1	99	1	0	19.39	20.60
19100	18902	QPSK	1	0	1	99	19.32	20.60

【CA_2C_Ant 4_DSI 6】

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		
18700	18898	QPSK	1	99	1	0	20.87	22.00
18900	19098	QPSK	1	99	1	0	20.89	22.00
19100	18902	QPSK	1	0	1	99	20.83	22.00

【CA_2C_Ant 4_DSI 7】

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		
18700	18898	QPSK	1	99	1	0	16.78	17.50
18900	19098	QPSK	1	99	1	0	16.83	17.50
19100	18902	QPSK	1	0	1	99	16.72	17.50

【CA_2C_Ant 8_Full Power】

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		
18700	18898	QPSK	1	99	1	0	22.89	24.00
18900	19098	QPSK	1	99	1	0	22.98	24.00
19100	18902	QPSK	1	0	1	99	22.91	24.00

【CA_2C_Ant 8_DSI 4】

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		
18700	18898	QPSK	1	99	1	0	22.89	24.00
18900	19098	QPSK	1	99	1	0	22.98	24.00
19100	18902	QPSK	1	0	1	99	22.91	24.00

【CA_2C_Ant 8_DSI 2】

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		
18700	18898	QPSK	1	99	1	0	22.89	24.00
18900	19098	QPSK	1	99	1	0	22.98	24.00
19100	18902	QPSK	1	0	1	99	22.91	24.00

【CA_2C_Ant 8_DSI 3】

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		
18700	18898	QPSK	1	99	1	0	20.11	21.50
18900	19098	QPSK	1	99	1	0	20.13	21.50
19100	18902	QPSK	1	0	1	99	20.08	21.50

【CA_2C_Ant 8_DSI 6】

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		
18700	18898	QPSK	1	99	1	0	21.58	22.60
18900	19098	QPSK	1	99	1	0	21.62	22.60
19100	18902	QPSK	1	0	1	99	21.55	22.60

【CA_2C_Ant 8_DSI 7】

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		
18700	18898	QPSK	1	99	1	0	18.10	19.00
18900	19098	QPSK	1	99	1	0	18.13	19.00
19100	18902	QPSK	1	0	1	99	18.08	19.00

【CA_7C_Ant 4_Full Power】

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	23.21	24.00
21100	21298	QPSK	1	99	1	0	23.25	24.00
21350	21152	QPSK	1	0	1	99	23.23	24.00

【CA_7C_Ant 4_DSI 4】

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	23.21	24.00
21100	20902	QPSK	1	99	1	0	23.25	24.00
21350	21152	QPSK	1	0	1	99	23.23	24.00

【CA_7C_Ant 4_DSI 2】

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	12.85	13.70
21100	21298	QPSK	1	99	1	0	13.01	13.70
21350	21152	QPSK	1	0	1	99	12.81	13.70

【CA_7C_Ant 4_DSI 3】

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	14.98	15.90
21100	21298	QPSK	1	99	1	0	15.01	15.90
21350	21152	QPSK	1	0	1	99	14.95	15.90

【CA_7C_Ant 4_DSI 6】

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	18.35	19.40
21100	21298	QPSK	1	99	1	0	18.41	19.40
21350	21152	QPSK	1	0	1	99	18.31	19.40

【CA_7C_Ant 4_DSI 7】

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	13.81	15.30
21100	21298	QPSK	1	99	1	0	13.85	15.30
21350	21152	QPSK	1	0	1	99	13.75	15.30

【CA_7C_Ant 8_Full Power】

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	23.39	24.00
21100	21298	QPSK	1	99	1	0	23.41	24.00
21350	21152	QPSK	1	0	1	99	23.35	24.00

【CA_7C_Ant 8_DSI 4】

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	23.39	24.00
21100	20902	QPSK	1	99	1	0	23.41	24.00
21350	21152	QPSK	1	0	1	99	23.35	24.00

【CA_7C_Ant 8_DSI 2】

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	23.39	24.00
21100	21298	QPSK	1	99	1	0	23.41	24.00
21350	21152	QPSK	1	0	1	99	23.35	24.00

【CA_7C_Ant 8_DSI 3】

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	20.81	21.70
21100	21298	QPSK	1	99	1	0	20.85	21.70
21350	21152	QPSK	1	0	1	99	20.79	21.70

【CA_7C_Ant 8_DSI 6】

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	21.79	22.90
21100	21298	QPSK	1	99	1	0	21.84	22.90
21350	21152	QPSK	1	0	1	99	21.75	22.90

【CA_7C_Ant 8_DSI 7】

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	18.61	19.70
21100	21298	QPSK	1	99	1	0	18.65	19.70
21350	21152	QPSK	1	0	1	99	18.59	19.70

【CA_38C_Ant 1_Full Power】

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	23.33	24.00
37901	38099	QPSK	1	99	1	0	23.39	24.00
38150	37952	QPSK	1	0	1	99	23.28	24.00

【CA_38C_Ant 1_DSI 4】

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	23.33	24.00
37901	38099	QPSK	1	99	1	0	23.39	24.00
38150	37952	QPSK	1	0	1	99	23.28	24.00

【CA_38C_Ant 1_DSI 2】

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	19.63	20.60
37901	38099	QPSK	1	99	1	0	19.66	20.60
38150	37952	QPSK	1	0	1	99	19.61	20.60

【CA_38C_Ant 1_DSI 3】

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	21.08	22.30
37901	38099	QPSK	1	99	1	0	21.11	22.30
38150	37952	QPSK	1	0	1	99	21.03	22.30

【CA_38C_Ant 1_DSI 6】

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	23.33	24.00
37901	38099	QPSK	1	99	1	0	23.39	24.00
38150	37952	QPSK	1	0	1	99	23.28	24.00

【CA_38C_Ant 1_DSI 7】

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	17.58	18.70
37901	38099	QPSK	1	99	1	0	17.61	18.70
38150	37952	QPSK	1	0	1	99	17.55	18.70

【CA_38C_Ant 4_Full Power】

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	23.31	24.00
37901	38099	QPSK	1	99	1	0	23.35	24.00
38150	37952	QPSK	1	0	1	99	23.29	24.00

【CA_38C_Ant 4_DSI 4】

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	23.31	24.00
37901	38099	QPSK	1	99	1	0	23.35	24.00
38150	37952	QPSK	1	0	1	99	23.29	24.00

【CA_38C_Ant 4_DSI 2】

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	14.05	15.70
37901	38099	QPSK	1	99	1	0	14.11	15.70
38150	37952	QPSK	1	0	1	99	14.03	15.70

【CA_38C_Ant 4_DSI 3】

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	17.41	19.10
37901	38099	QPSK	1	99	1	0	17.45	19.10
38150	37952	QPSK	1	0	1	99	17.35	19.10

【CA_38C_Ant 4_DSI 6】

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	20.09	21.30
37901	38099	QPSK	1	99	1	0	20.15	21.30
38150	37952	QPSK	1	0	1	99	20.05	21.30

【CA_38C_Ant 4_DSI 7】

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	15.03	16.70
37901	38099	QPSK	1	99	1	0	15.06	16.70
38150	37952	QPSK	1	0	1	99	15.01	16.70

【CA_38C_Ant 8_Full Power】

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	23.18	24.00
37901	38099	QPSK	1	99	1	0	23.31	24.00
38150	37952	QPSK	1	0	1	99	23.15	24.00

【CA_38C_Ant 8_DSI 4】

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	23.18	24.00
37901	38099	QPSK	1	99	1	0	23.31	24.00
38150	37952	QPSK	1	0	1	99	23.15	24.00

【CA_38C_Ant 8_DSI 2】

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	23.18	24.00
37901	38099	QPSK	1	99	1	0	23.31	24.00
38150	37952	QPSK	1	0	1	99	23.15	24.00

【CA_38C_Ant 8_DSI 3】

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	23.18	24.00
37901	38099	QPSK	1	99	1	0	23.31	24.00
38150	37952	QPSK	1	0	1	99	23.15	24.00

【CA_38C_Ant 8_DSI 6】

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	23.18	24.00
37901	38099	QPSK	1	99	1	0	23.31	24.00
38150	37952	QPSK	1	0	1	99	23.15	24.00

【CA_38C_Ant 8_DSI 7】

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	20.51	21.70
37901	38099	QPSK	1	99	1	0	20.55	21.70
38150	37952	QPSK	1	0	1	99	20.45	21.70

【CA_66C_Ant 4_Full Power】

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	22.98	24.00
132322	132520	QPSK	1	99	1	0	23.09	24.00
132572	132374	QPSK	1	0	1	99	22.91	24.00

【CA_66C_Ant 4_DSI 4】

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	22.98	24.00
132322	132124	QPSK	1	99	1	0	23.09	24.00
132572	132374	QPSK	1	0	1	99	22.91	24.00

【CA_66C_Ant 4_DSI 2】

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	17.75	18.70
132322	132520	QPSK	1	99	1	0	17.89	18.70
132572	132374	QPSK	1	0	1	99	17.71	18.70

【CA_66C_Ant 4_DSI 3】

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	19.25	20.50
132322	132520	QPSK	1	99	1	0	19.31	20.50
132572	132374	QPSK	1	0	1	99	19.21	20.50

【CA_66C_Ant 4_DSI 6】

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	19.75	20.90
132322	132520	QPSK	1	99	1	0	19.84	20.90
132572	132374	QPSK	1	0	1	99	19.71	20.90

【CA_66C_Ant 4_DSI 7】

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	17.25	18.30
132322	132520	QPSK	1	99	1	0	17.35	18.30
132572	132374	QPSK	1	0	1	99	17.21	18.30

【CA_66C_Ant 8_Full Power】

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	23.15	24.00
132322	132520	QPSK	1	99	1	0	23.21	24.00
132572	132374	QPSK	1	0	1	99	23.11	24.00

【CA_66C_Ant 8_DSI 4】

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	23.15	24.00
132322	132124	QPSK	1	99	1	0	23.21	24.00
132572	132374	QPSK	1	0	1	99	23.11	24.00

【CA_66C_Ant 8_DSI 2】

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	23.15	24.00
132322	132520	QPSK	1	99	1	0	23.21	24.00
132572	132374	QPSK	1	0	1	99	23.11	24.00

【CA_66C_Ant 8_DSI 3】

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	20.75	22.20
132322	132520	QPSK	1	99	1	0	20.85	22.20
132572	132374	QPSK	1	0	1	99	20.71	22.20

【CA_66C_Ant 8_DSI 6】

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	23.15	24.00
132322	132520	QPSK	1	99	1	0	23.21	24.00
132572	132374	QPSK	1	0	1	99	23.11	24.00

【CA_66C_Ant 8_DSI 7】

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	19.11	20.30
132322	132520	QPSK	1	99	1	0	19.15	20.30
132572	132374	QPSK	1	0	1	99	19.09	20.30

【Full Power】

CA_41C HPUE Ant 1								
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	26.35	27.00
40185	40383	QPSK	1	99	1	0	26.31	27.00
40620	40818	QPSK	1	99	1	0	26.45	27.00
41055	41253	QPSK	1	99	1	0	26.33	27.00
41490	41292	QPSK	1	0	1	99	26.29	27.00
CA_41C HPUE Ant 4								
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	26.35	27.00
40185	40383	QPSK	1	99	1	0	26.31	27.00
40620	40818	QPSK	1	99	1	0	26.41	27.00
41055	41253	QPSK	1	99	1	0	26.33	27.00
41490	41292	QPSK	1	0	1	99	26.35	27.00
CA_41C HPUE Ant 8								
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	26.49	27.00
40185	40383	QPSK	1	99	1	0	26.45	27.00
40620	40818	QPSK	1	99	1	0	26.53	27.00
41055	41253	QPSK	1	99	1	0	26.41	27.00
41490	41292	QPSK	1	0	1	99	26.43	27.00

【DSI4 Power】

CA_41C HPUE Ant 1								
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	26.35	27.00
40185	40383	QPSK	1	99	1	0	26.31	27.00
40620	40818	QPSK	1	99	1	0	26.45	27.00
41055	41253	QPSK	1	99	1	0	26.33	27.00
41490	41292	QPSK	1	0	1	99	26.29	27.00
CA_41C HPUE Ant 4								
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	26.35	27.00
40185	40383	QPSK	1	99	1	0	26.31	27.00
40620	40818	QPSK	1	99	1	0	26.41	27.00
41055	41253	QPSK	1	99	1	0	26.33	27.00
41490	41292	QPSK	1	0	1	99	26.35	27.00
CA_41C HPUE Ant 8								
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	26.49	27.00
40185	40383	QPSK	1	99	1	0	26.45	27.00
40620	40818	QPSK	1	99	1	0	26.53	27.00

41055	41253	QPSK	1	99	1	0	26.41	27.00
41490	41292	QPSK	1	0	1	99	26.43	27.00

【DSI2 Power】

CA_41C HPUE Ant 1								
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	21.21	22.20
40185	40383	QPSK	1	99	1	0	21.28	22.20
40620	40818	QPSK	1	99	1	0	21.33	22.20
41055	41253	QPSK	1	99	1	0	21.29	22.20
41490	41292	QPSK	1	0	1	99	21.19	22.20
CA_41C HPUE Ant 4								
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	15.91	17.30
40185	40383	QPSK	1	99	1	0	15.89	17.30
40620	40818	QPSK	1	99	1	0	15.98	17.30
41055	41253	QPSK	1	99	1	0	15.83	17.30
41490	41292	QPSK	1	0	1	99	15.81	17.30
CA_41C HPUE Ant 8								
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	26.49	27.00
40185	40383	QPSK	1	99	1	0	26.45	27.00
40620	40818	QPSK	1	99	1	0	26.53	27.00
41055	41253	QPSK	1	99	1	0	26.41	27.00
41490	41292	QPSK	1	0	1	99	26.43	27.00

【DSI3 Power】

CA_41C HPUE Ant 1								
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	22.75	23.90
40185	40383	QPSK	1	99	1	0	22.81	23.90
40620	40818	QPSK	1	99	1	0	22.89	23.90
41055	41253	QPSK	1	99	1	0	22.88	23.90
41490	41292	QPSK	1	0	1	99	22.85	23.90
CA_41C HPUE Ant 4								
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	19.35	20.70
40185	40383	QPSK	1	99	1	0	19.31	20.70
40620	40818	QPSK	1	99	1	0	19.41	20.70
41055	41253	QPSK	1	99	1	0	19.33	20.70
41490	41292	QPSK	1	0	1	99	19.32	20.70
CA_41C HPUE Ant 8								
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	26.01	27.00
40185	40383	QPSK	1	99	1	0	25.98	27.00
40620	40818	QPSK	1	99	1	0	26.11	27.00
41055	41253	QPSK	1	99	1	0	26.03	27.00
41490	41292	QPSK	1	0	1	99	26.05	27.00

【DSI6 Power】

CA_41C HPUE Ant 1								
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	24.81	25.90
40185	40383	QPSK	1	99	1	0	24.85	25.90
40620	40818	QPSK	1	99	1	0	24.91	25.90
41055	41253	QPSK	1	99	1	0	24.88	25.90
41490	41292	QPSK	1	0	1	99	24.83	25.90
CA_41C HPUE Ant 4								
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	21.85	22.90
40185	40383	QPSK	1	99	1	0	21.81	22.90
40620	40818	QPSK	1	99	1	0	21.89	22.90
41055	41253	QPSK	1	99	1	0	21.79	22.90
41490	41292	QPSK	1	0	1	99	21.75	22.90
CA_41C HPUE Ant 8								
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	25.43	26.80
40185	40383	QPSK	1	99	1	0	25.41	26.80
40620	40818	QPSK	1	99	1	0	25.55	26.80
41055	41253	QPSK	1	99	1	0	25.46	26.80
41490	41292	QPSK	1	0	1	99	25.43	26.80

【DSI7 Power】

CA_41C HPUE Ant 1								
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	19.28	20.30
40185	40383	QPSK	1	99	1	0	19.22	20.30
40620	40818	QPSK	1	99	1	0	19.33	20.30
41055	41253	QPSK	1	99	1	0	19.21	20.30
41490	41292	QPSK	1	0	1	99	19.25	20.30
CA_41C HPUE Ant 4								
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	16.81	18.30
40185	40383	QPSK	1	99	1	0	16.83	18.30
40620	40818	QPSK	1	99	1	0	16.89	18.30
41055	41253	QPSK	1	99	1	0	16.82	18.30
41490	41292	QPSK	1	0	1	99	16.81	18.30
CA_41C HPUE Ant 8								
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	22.05	23.30
40185	40383	QPSK	1	99	1	0	22.06	23.30
40620	40818	QPSK	1	99	1	0	22.15	23.30
41055	41253	QPSK	1	99	1	0	22.01	23.30
41490	41292	QPSK	1	0	1	99	22.03	23.30