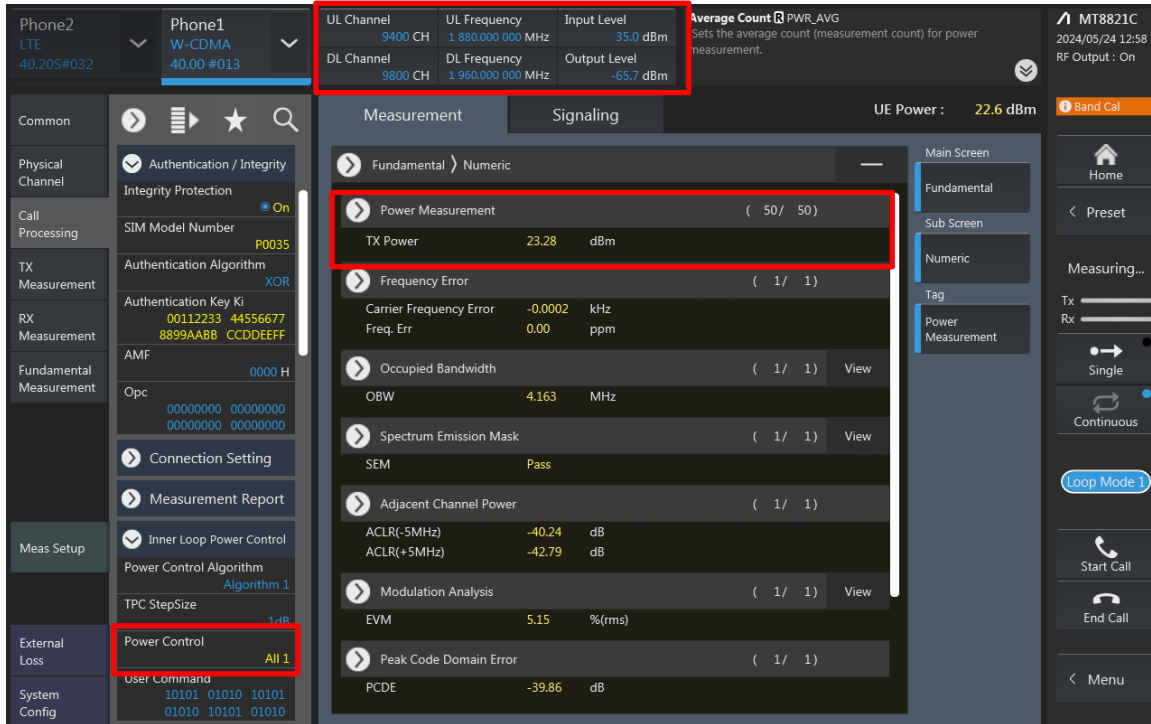


### Power measurement connection diagram:

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

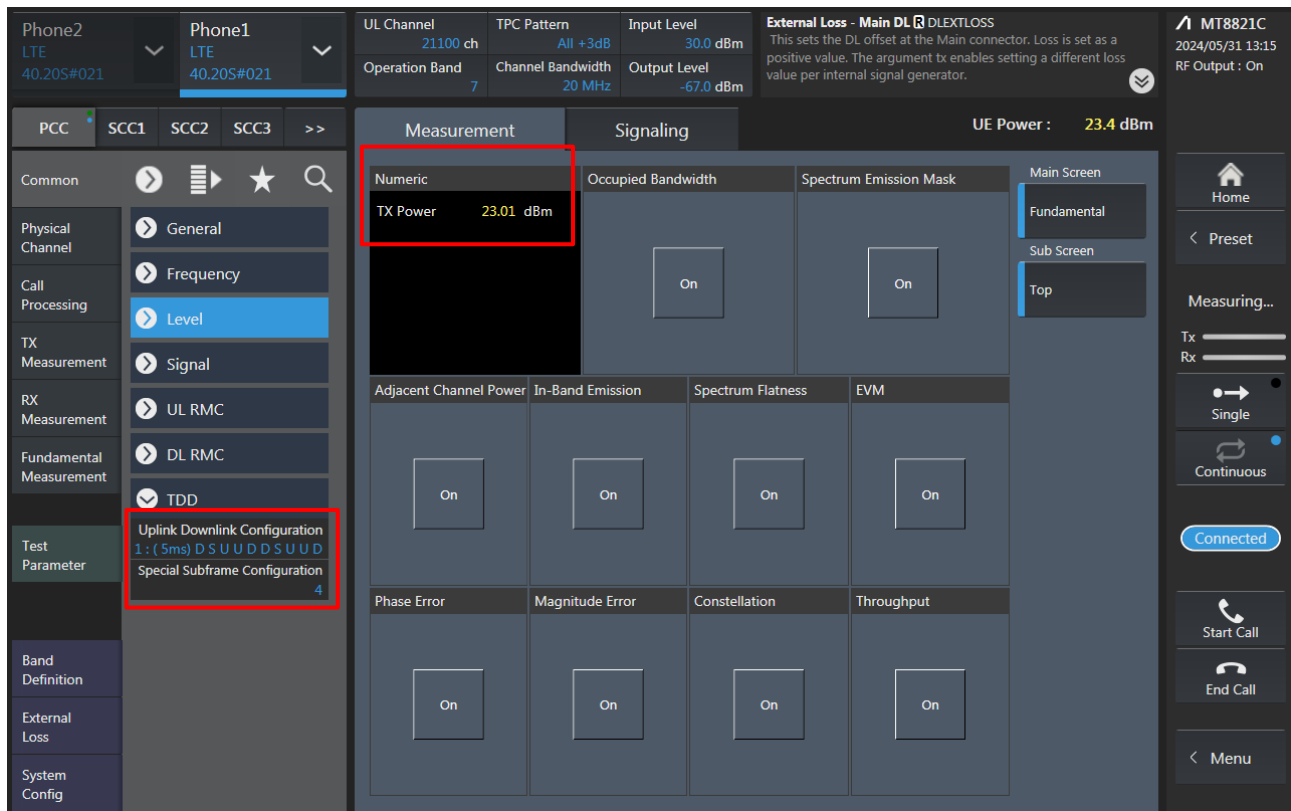
#### <WCDMA>



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

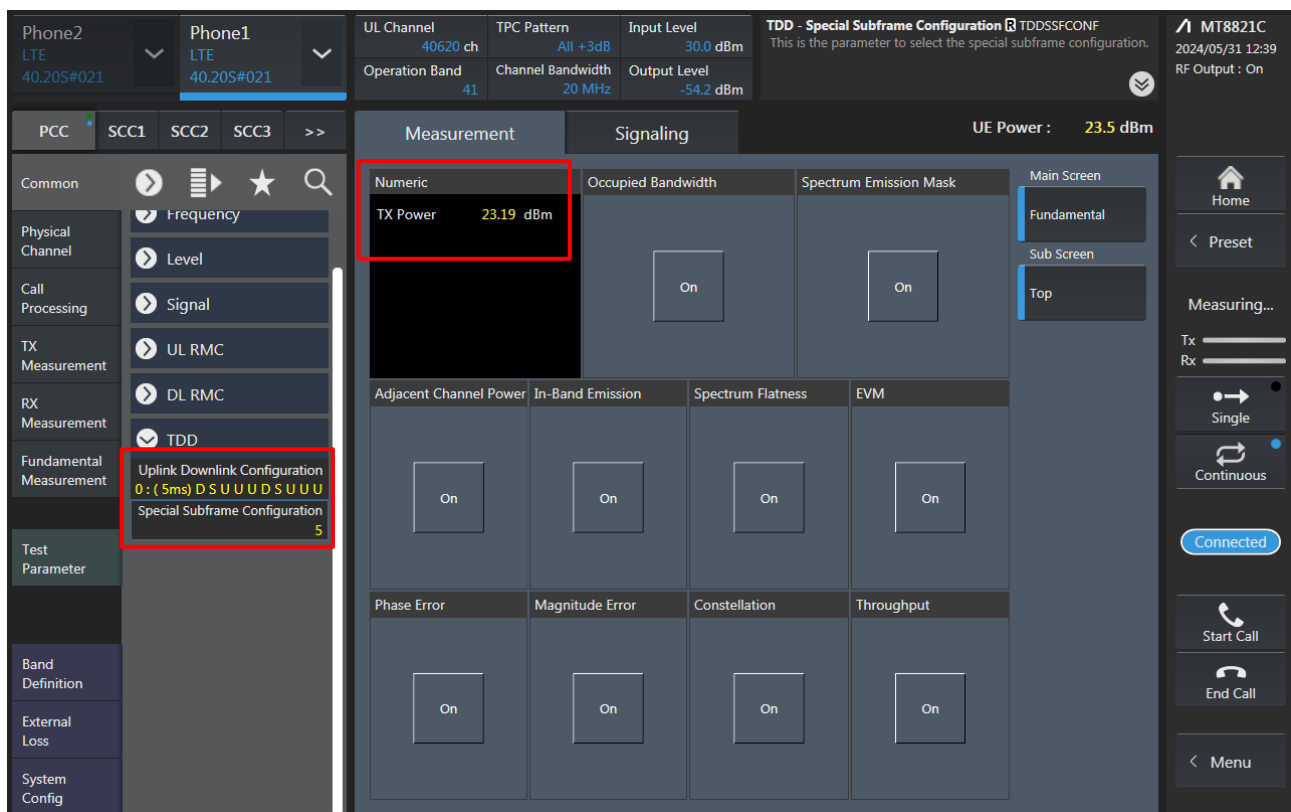
- Top Bar:** Shows Phone2 (LTE 40.205#032) and Phone1 (W-CDMA 40.00 #013). A red box highlights the channel and frequency information: UL Channel 9400 CH, UL Frequency 1 880.000 000 MHz, Input Level 35.0 dBm, DL Channel 9800 CH, DL Frequency 1 960.000 000 MHz, and Output Level -65.7 dBm. The Average Count is set to PWR\_AVG.
- Left Sidebar:** Contains various measurement and setup options. The 'Power Control' option under 'External Loss' is highlighted with a red box.
- Main Area:** Displays the 'Measurement' tab with a 'Fundamental' sub-tab. A red box highlights the 'Power Measurement' section, showing TX Power at 23.28 dBm. Other measurements include Frequency Error (Carrier Frequency Error: -0.0002 kHz, Freq. Err: 0.00 ppm), Occupied Bandwidth (OBW: 4.163 MHz), Spectrum Emission Mask (SEM: Pass), Adjacent Channel Power (ACLR(-5MHz): -40.24 dB, ACLR(+5MHz): -42.79 dB), Modulation Analysis (EVM: 5.15 % (rms)), and Peak Code Domain Error (PCDE: -39.86 dB).
- Right Sidebar:** Includes a 'Main Screen' section with 'Fundamental' and 'Sub Screen' options, and a 'Tag' section with 'Power Measurement' selected. It also features a 'Measuring...' section with 'Single' and 'Continuous' modes, and a 'Loop Mode 1' button.

### <LTE>



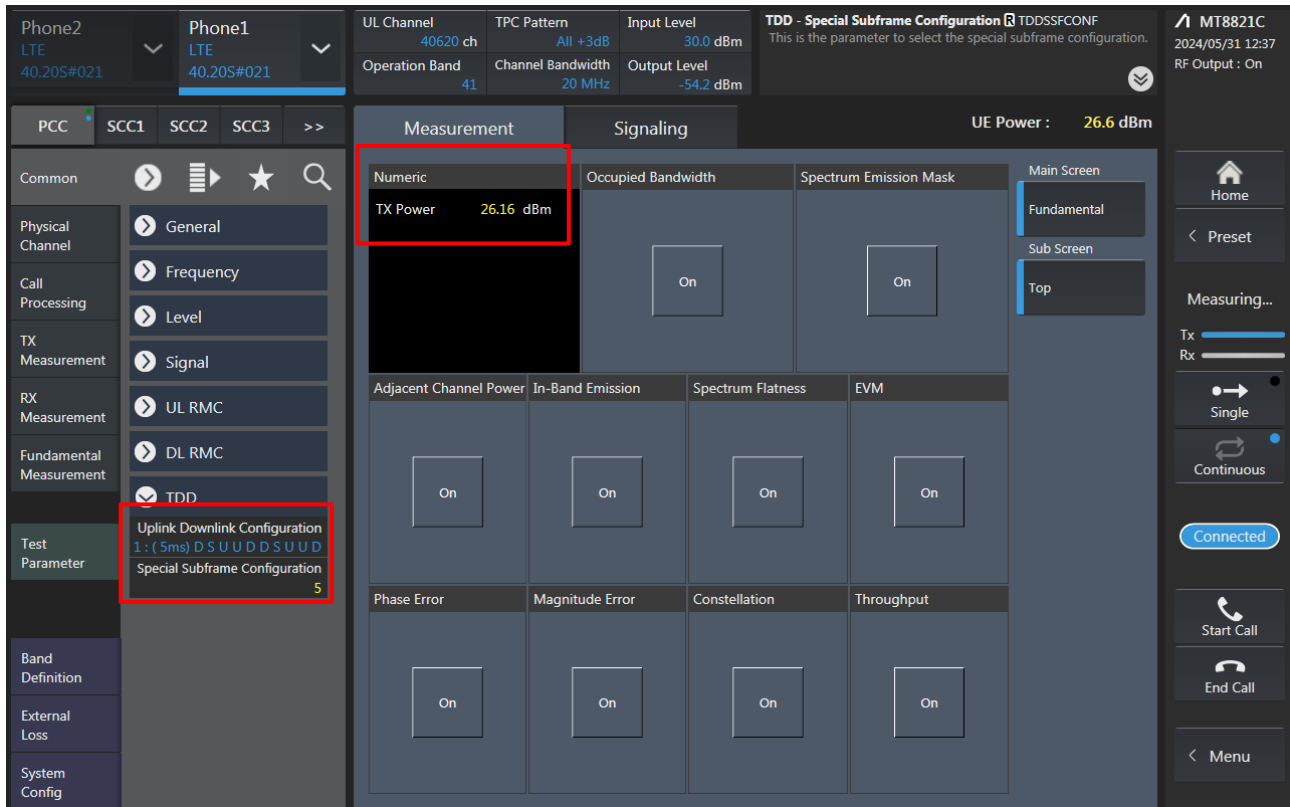
The screenshot shows the LTE test interface. The top bar displays 'Phone2' and 'Phone1' both set to 'LTE 40.20S#021'. The 'Measurement' tab is active, showing 'TX Power' at 23.01 dBm. The 'Signaling' tab shows 'Occupied Bandwidth' and 'Spectrum Emission Mask' both set to 'On'. The 'Main Screen' shows 'Fundamental' and 'Sub Screen' both set to 'On'. 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 'UE Power' is 23.4 dBm. The 'External Loss - Main DL' is 0 dB. The 'MT8821C' status is '2024/05/31 13:15 RF Output : On'.

### <LTE TDD Power class 3>



The screenshot shows the LTE TDD Power class 3 test interface. The top bar displays 'Phone2' and 'Phone1' both set to 'LTE 40.20S#021'. The 'Measurement' tab is active, showing 'TX Power' at 23.19 dBm. The 'Signaling' tab shows 'Occupied Bandwidth' and 'Spectrum Emission Mask' both set to 'On'. The 'Main Screen' shows 'Fundamental' and 'Sub Screen' both set to 'On'. The 'Test Parameter' section shows 'Uplink Downlink Configuration 0: (5ms) D S U U U D S U U U' and 'Special Subframe Configuration 5'. The 'UE Power' is 23.5 dBm. The 'TDD - Special Subframe Configuration' is 0. The 'MT8821C' status is '2024/05/31 13:39 RF Output : On'.

## <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 TDDSSCONF 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 Occupied Bandwidth Spectrum Emission Mask

TX Power 26.16 dBm

On On

Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

On On On On

Phase Error Magnitude Error Constellation Throughput

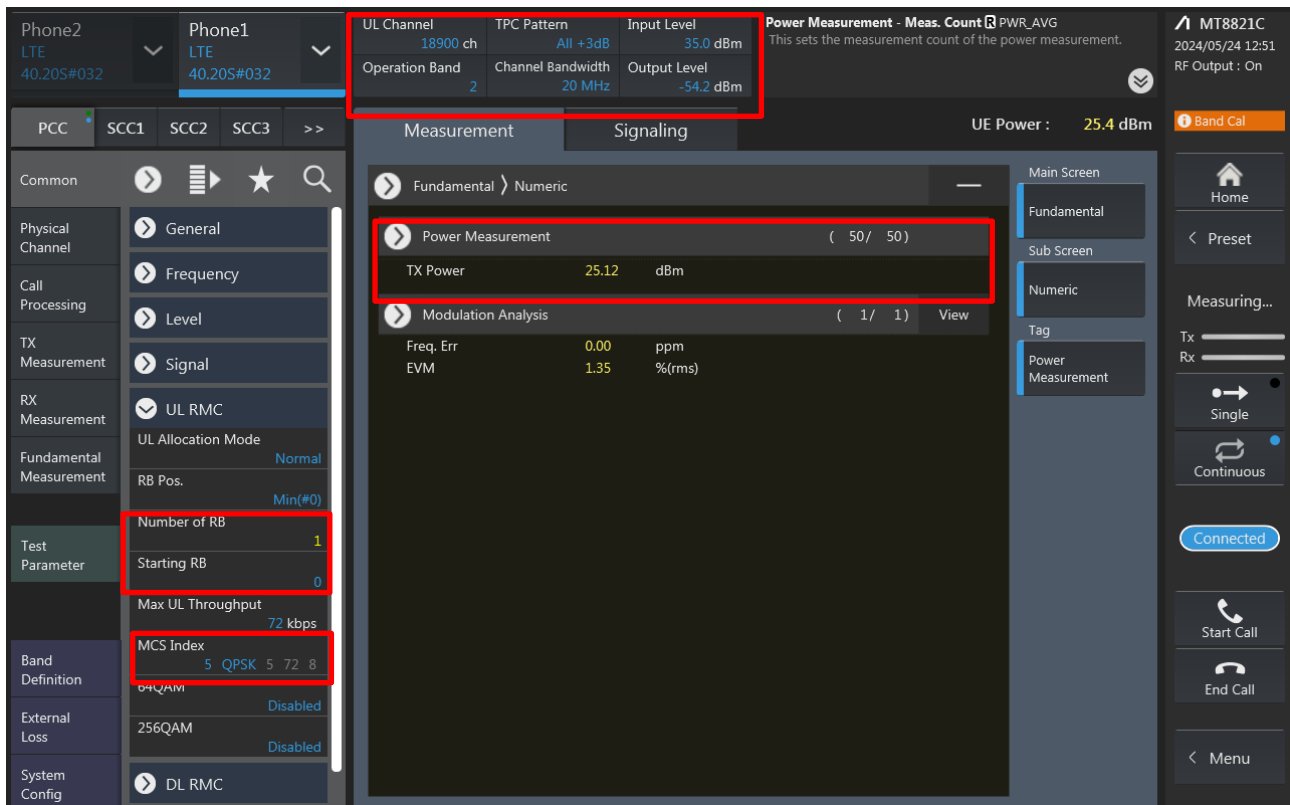
On On On On

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 5

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 This sets the measurement count of the power measurement.

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

UE Power : 25.4 dBm

Measurement Signaling

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)

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

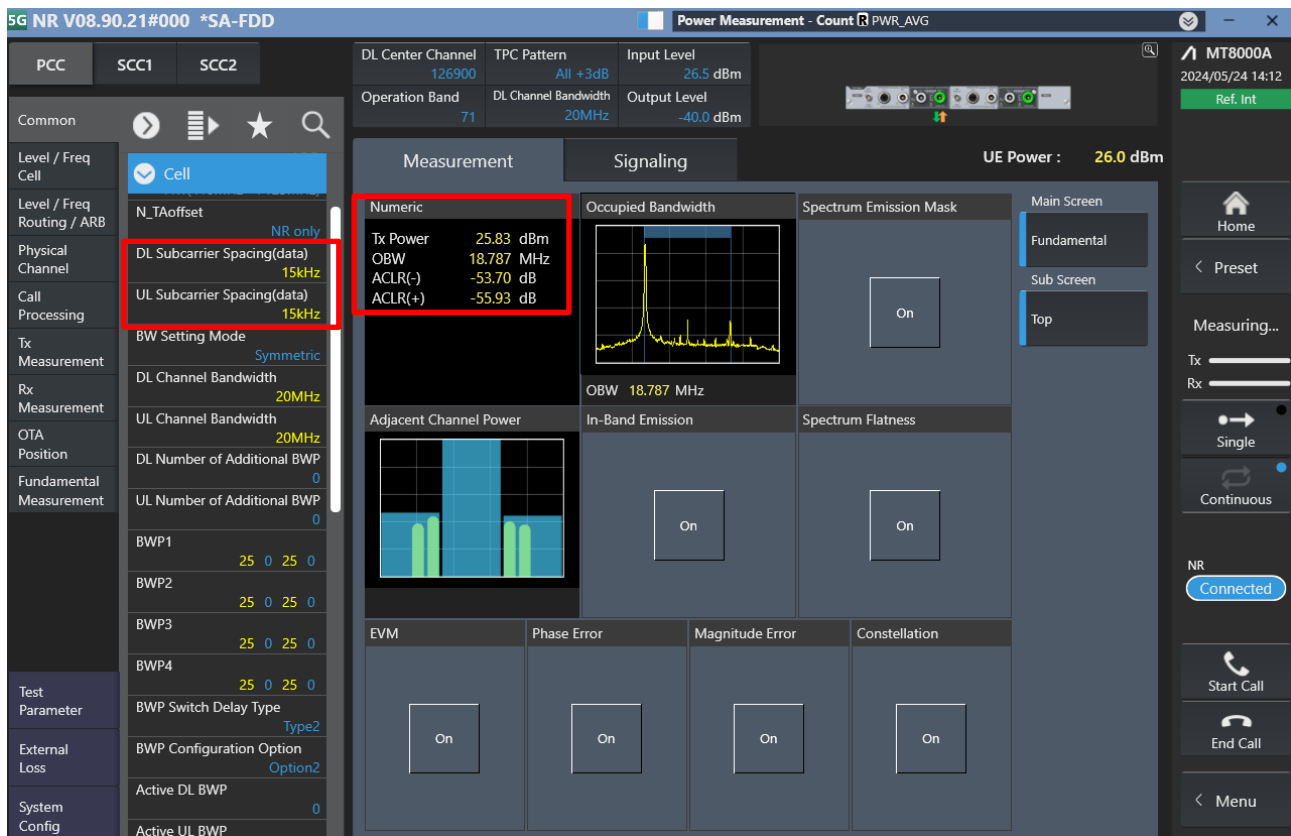
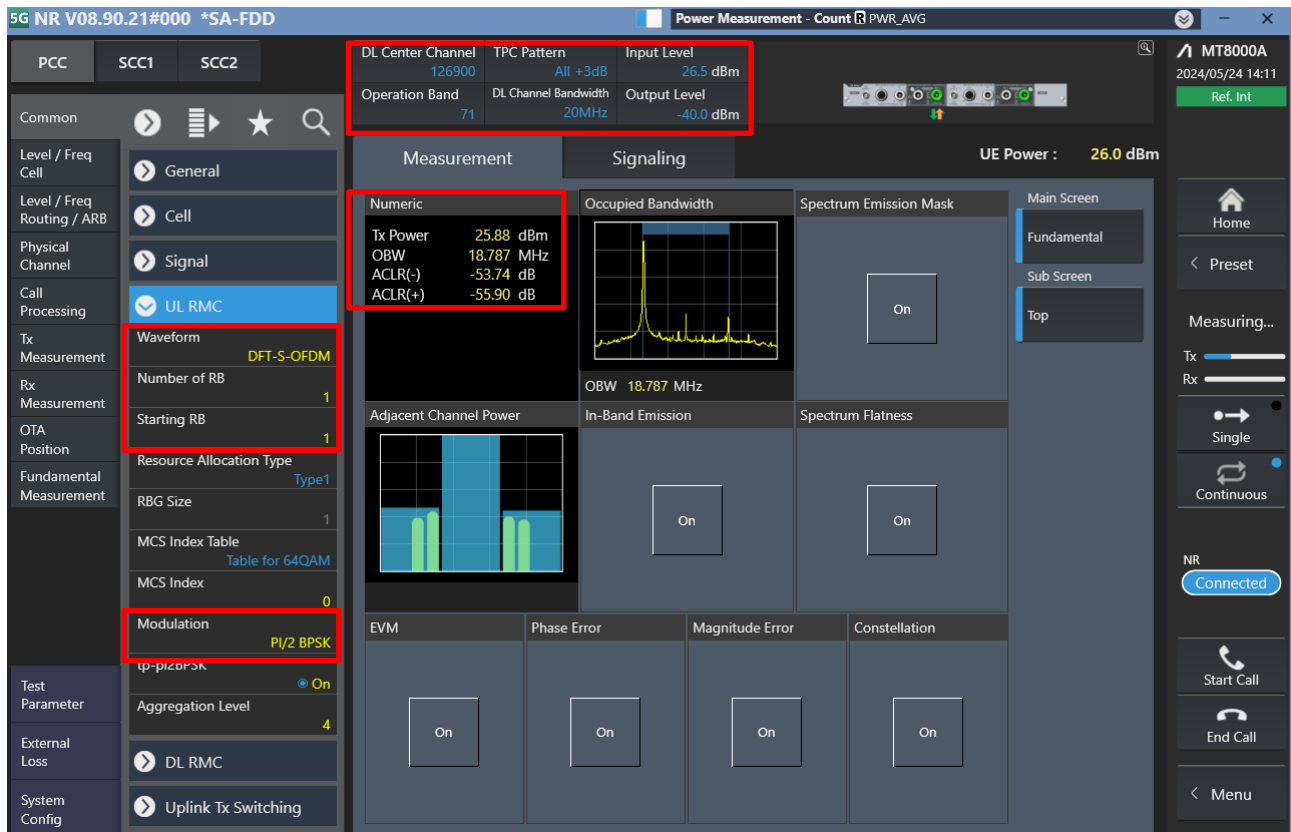
General Frequency Level Signal UL RMC UL Allocation Mode Normal RB Pos. Min(#0) Number of RB 1 Starting RB 0 Max UL Throughput 72 kbps MCS Index 5 QPSK 5 72 8

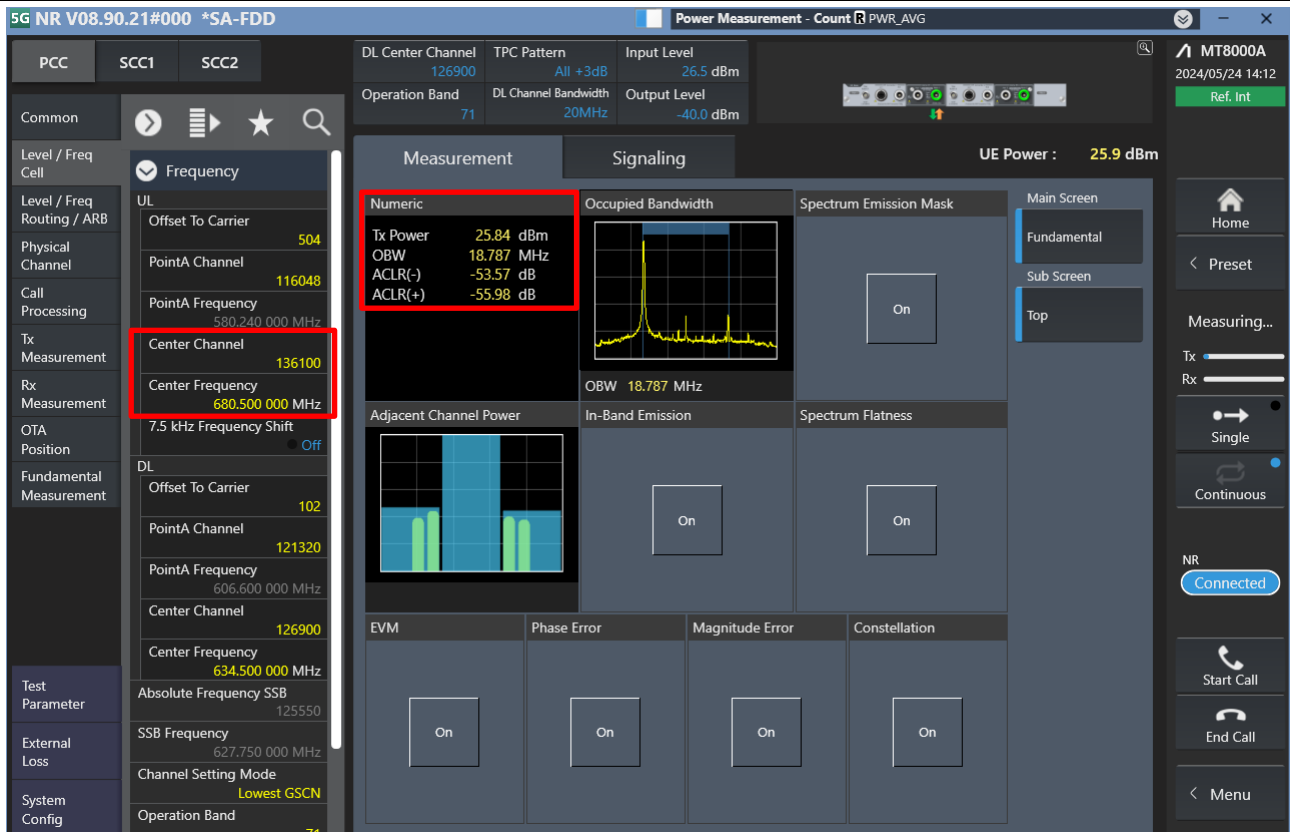
256QAM Disabled

DL RMC

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

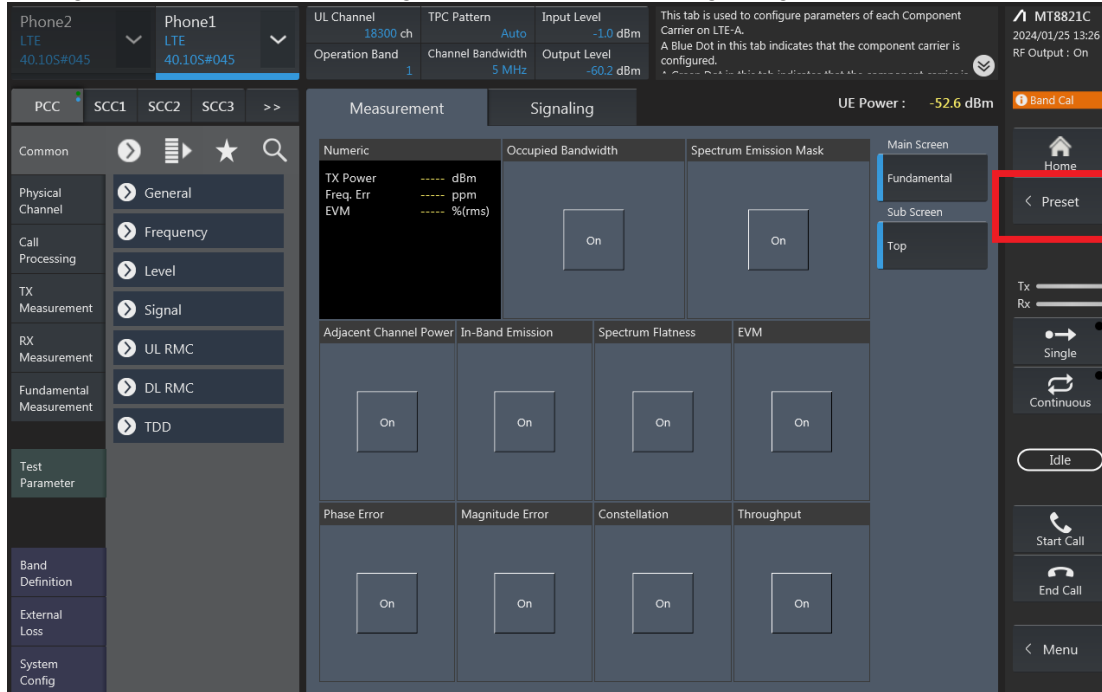
# <5G NR FR1>





## LTE Downlink Carrier Aggregation configurations:

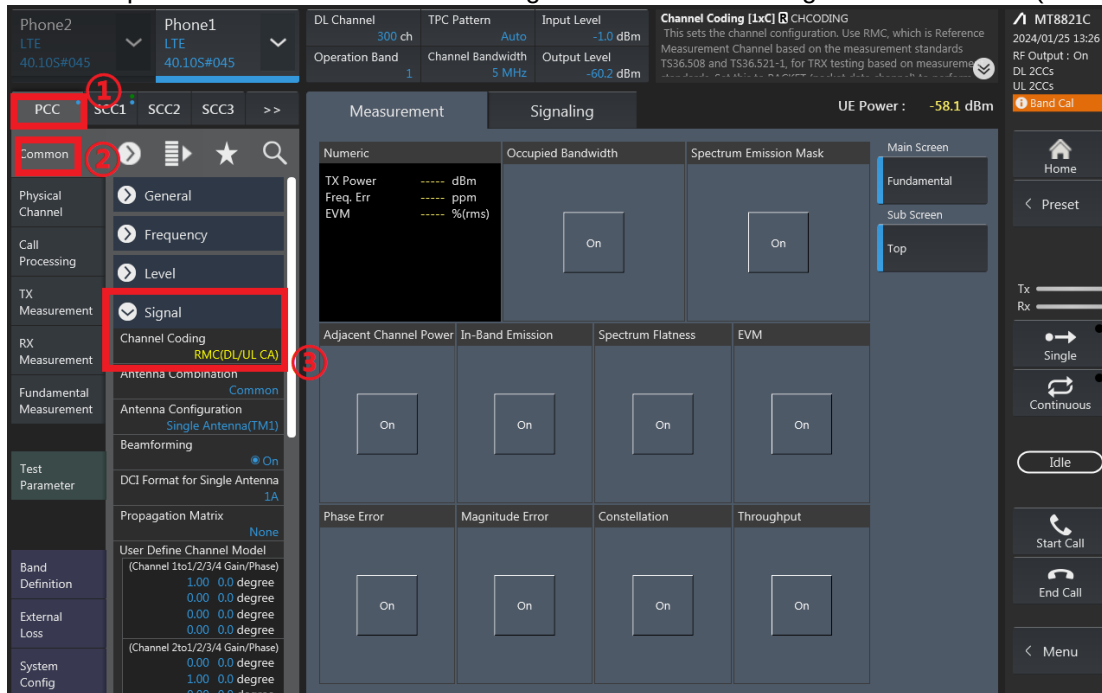
1. Change the Scenario in the Configuration of Phone1 LTE Signaling and Preset.



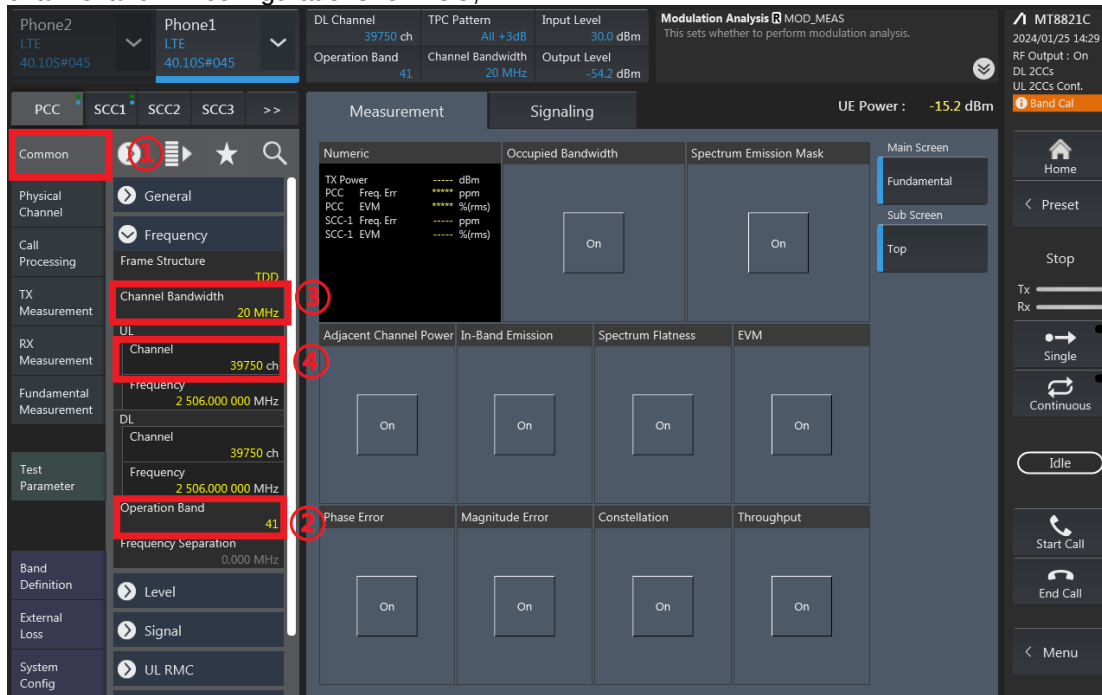
2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;  
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.

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;



Phone2 LTE 40.10S#045 Phone1 LTE 40.10S#045

DL Channel 39750 ch TPC Pattern All +3dB Input Level 30.0 dBm Modulation Analysis MOD\_MEAS This sets whether to perform modulation analysis.

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

MT8821C 2024/01/25 14:29 RF Output : On DL 2CCs UL 2CCs Cont.

PCC SCC1 SCC2 SCC3 >>

Measurement Signaling UE Power : -15.2 dBm

Common

Physical Channel General

Call Processing Frequency

TX Measurement Channel Bandwidth 20 MHz

RX Measurement Channel 39750 ch

Fundamental Measurement Frequency 2 506.000 000 MHz

Test Parameter Channel 39750 ch Frequency 2 506.000 000 MHz Operation Band 41 Frequency Separation 0.000 MHz

Band Definition Level

External Loss Signal

System Config UL RMC

Numeric Occupied Bandwidth Spectrum Emission Mask

TX Power PCC Freq. Err. dBm PCC EVM ppm SCC-1 Freq. Err. ppm SCC-1 EVM ppm

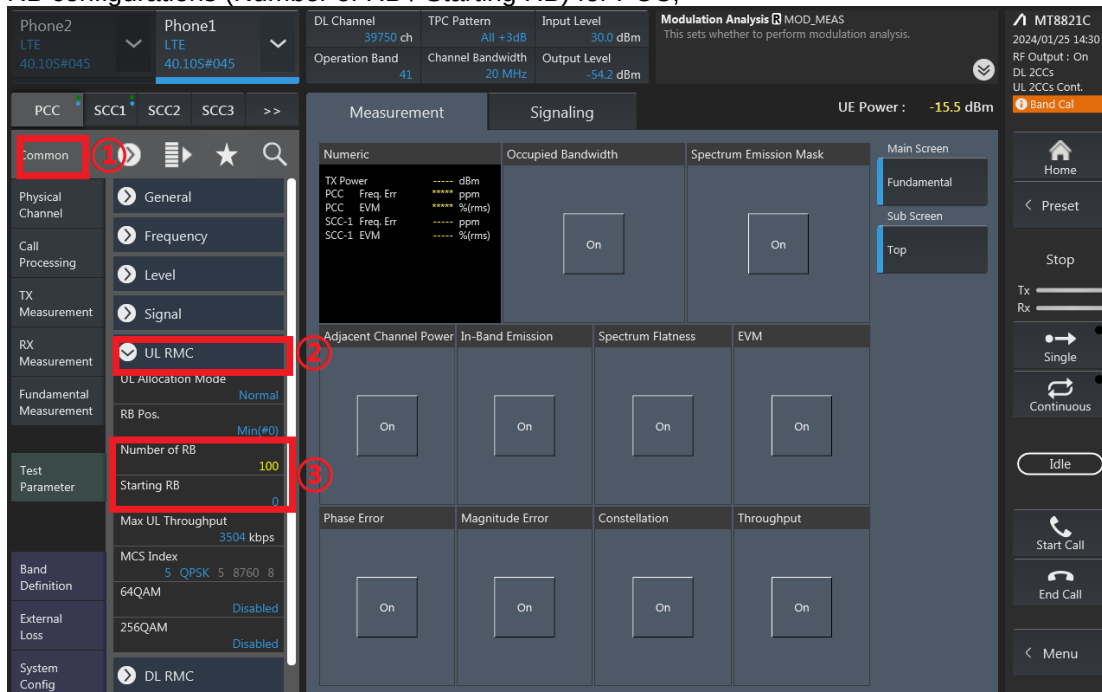
Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

Phase Error Magnitude Error Constellation Throughput

Main Screen Fundamental Sub Screen Top

Home Preset Stop Tx Rx Single Continuous Idle Start Call End Call Menu

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



Phone2 LTE 40.10S#045 Phone1 LTE 40.10S#045

DL Channel 39750 ch TPC Pattern All +3dB Input Level 30.0 dBm Modulation Analysis MOD\_MEAS This sets whether to perform modulation analysis.

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

MT8821C 2024/01/25 14:30 RF Output : On DL 2CCs UL 2CCs Cont.

PCC SCC1 SCC2 SCC3 >>

Measurement Signaling UE Power : -15.5 dBm

Common

Physical Channel General

Call Processing Frequency

TX Measurement Level

RX Measurement Signal

Fundamental Measurement UL RMC

Test Parameter UL Allocation Mode Normal RB Pos. Min(#0) Number of RB 100 Starting RB 0 Max UL Throughput 3504 kbps MCS Index 5 QPSK 5 8760 8 64QAM 256QAM Disabled Disabled

Band Definition DL RMC

Numeric Occupied Bandwidth Spectrum Emission Mask

TX Power PCC Freq. Err. dBm PCC EVM ppm SCC-1 Freq. Err. ppm SCC-1 EVM ppm

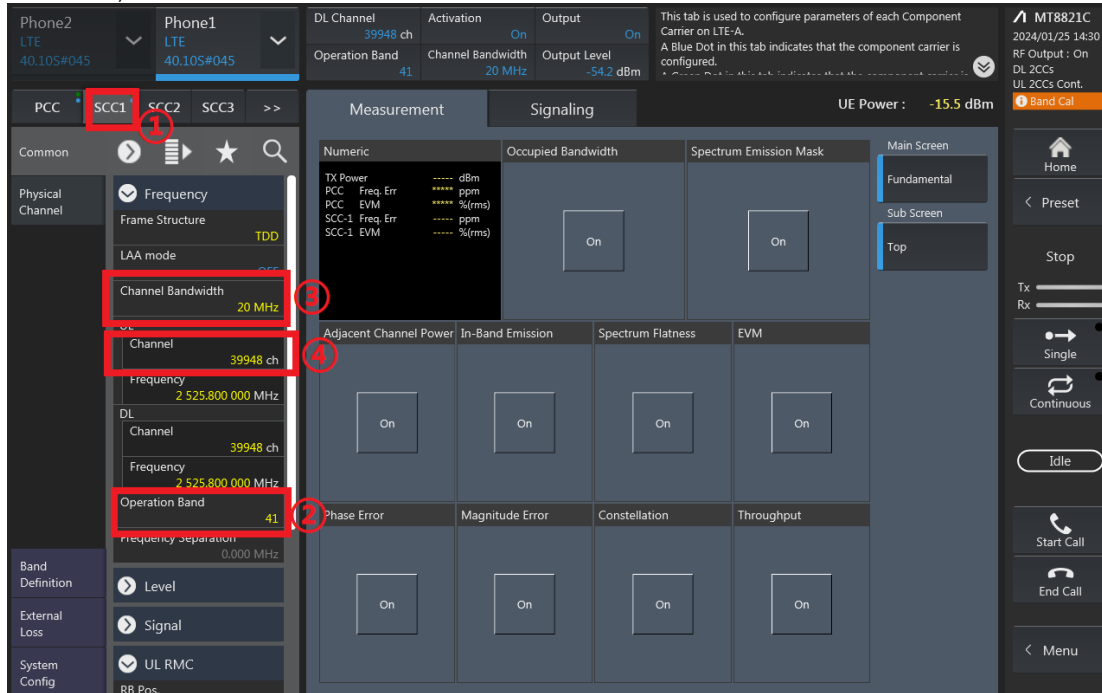
Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

Phase Error Magnitude Error Constellation Throughput

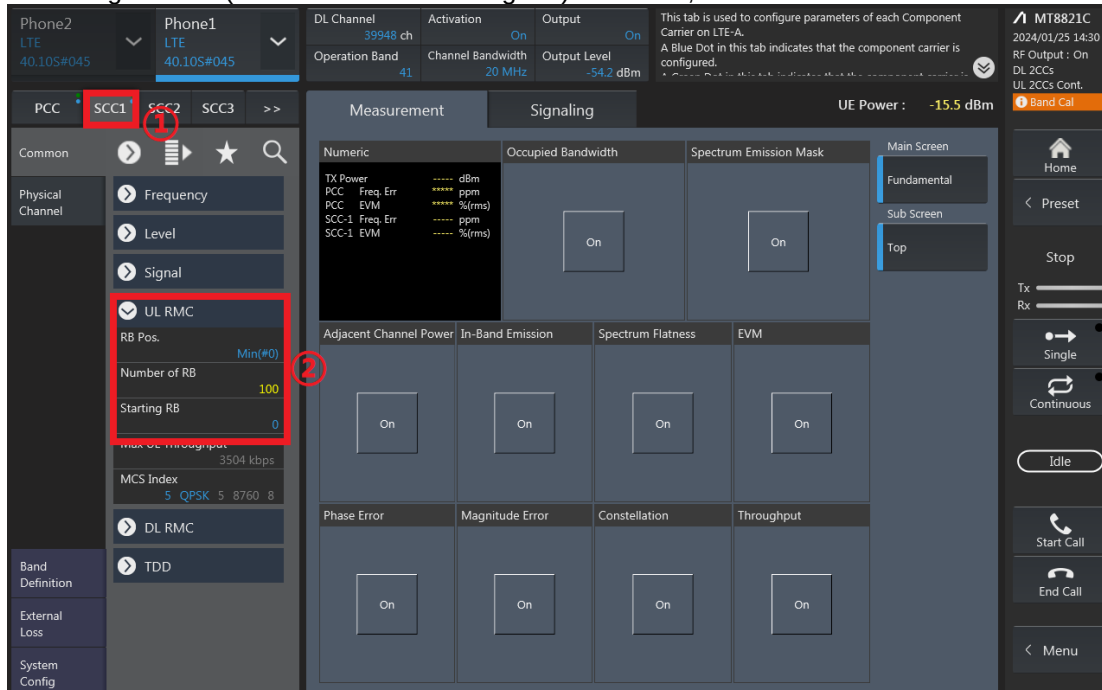
Main Screen Fundamental Sub Screen Top

Home Preset Stop Tx Rx Single Continuous Idle Start Call End Call Menu

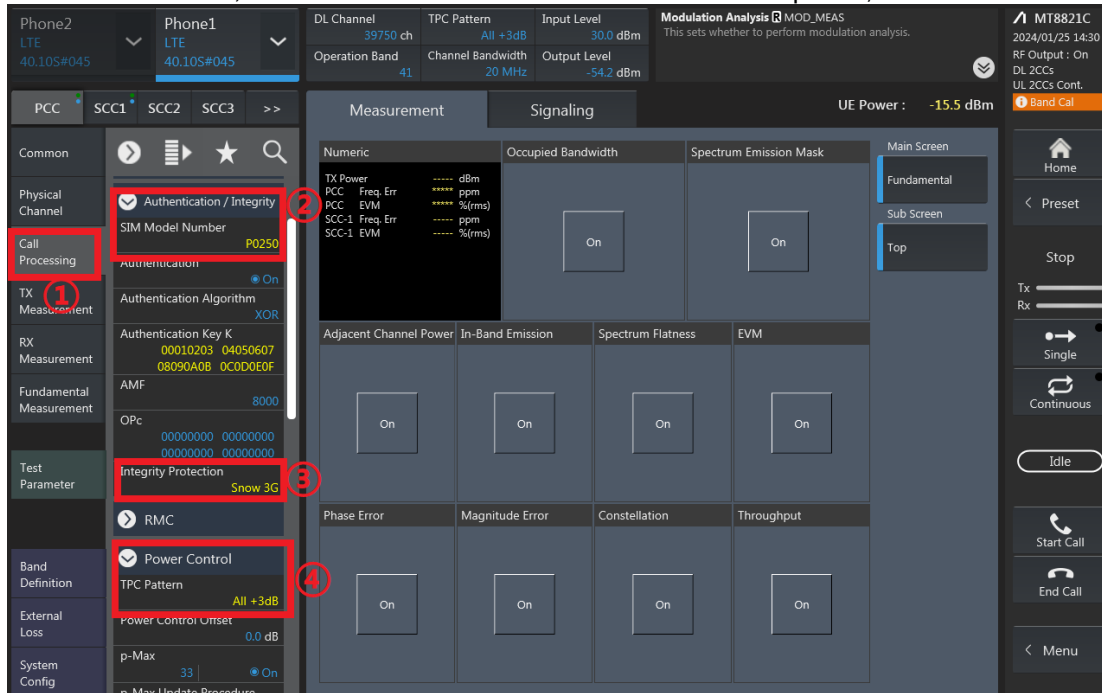
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



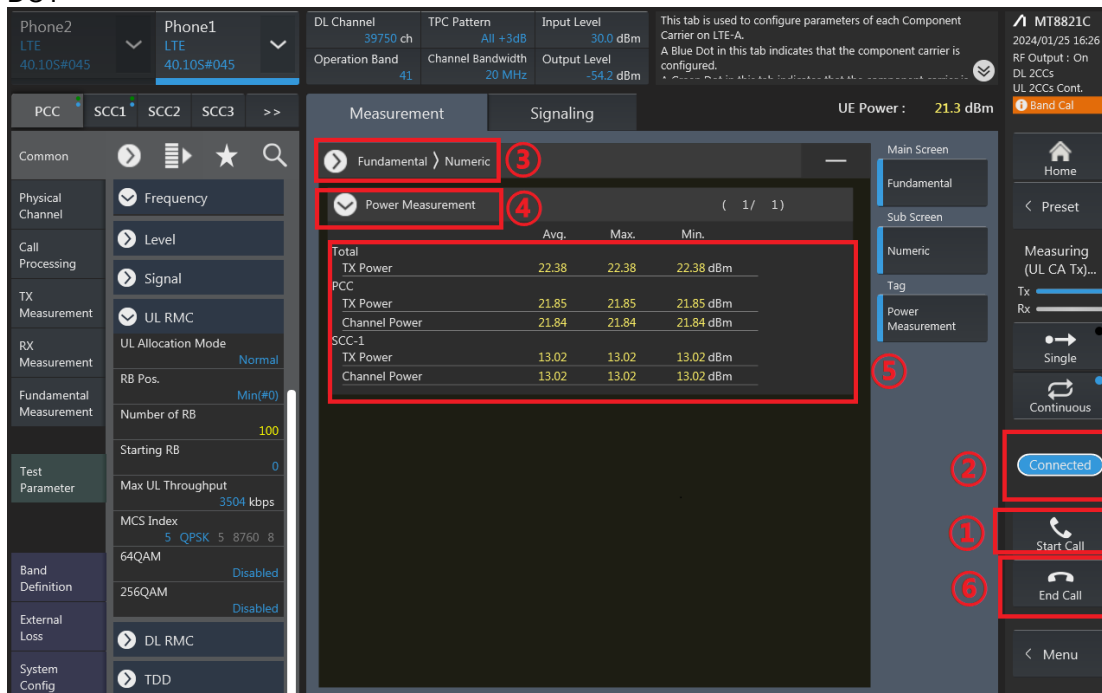
RB configurations (Number of RB / Starting RB) for SCC1;



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



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

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

| LTE bandS   | Modulation | BW<br>(MHz) | Ch.   | Freq.<br>(MHz) | RB offset | LTE Rel<br>8Tx.power<br>(dBm) | DL 4x4 MIMO<br>Tx.power<br>(dBm) | Delta |
|-------------|------------|-------------|-------|----------------|-----------|-------------------------------|----------------------------------|-------|
| LTE Band 42 | QPSK       | 20M         | 42190 | 3460           | 1/0       | 22.98                         | 22.87                            | 0.11  |
| LTE Band 43 | QPSK       | 20M         | 44590 | 3650           | 1/0       | 22.72                         | 22.67                            | 0.05  |
| LTE Band 38 | QPSK       | 20M         | 38000 | 2595           | 1/0       | 23.15                         | 23.07                            | 0.08  |
| LTE Band 7  | QPSK       | 20M         | 21100 | 2535           | 1/0       | 22.21                         | 22.17                            | 0.04  |
| LTE Band 41 | QPSK       | 20M         | 40620 | 2593           | 1/0       | 23.14                         | 23.11                            | 0.03  |
| LTE Band 48 | QPSK       | 20M         | 55830 | 3609           | 1/0       | 22.72                         | 22.67                            | 0.05  |

## Downlink CA Power

| 2CA DL     |         |      |       |            |         |      |     |           |                          |         |       |            |         |         |            |                |                |  |
|------------|---------|------|-------|------------|---------|------|-----|-----------|--------------------------|---------|-------|------------|---------|---------|------------|----------------|----------------|--|
| CA List    | PCD     |      |       |            |         |      |     |           | SCC                      |         |       |            | Power   |         |            |                |                |  |
|            | LTE     | BW   | BW    | UL         | UL      | Mod. | UL# | UL        | DL Antenna Configuration | LTE     | BW    | DL         | DL      | With CA | Without CA |                |                |  |
|            | Band    | Ant  | (MHz) | Freq (MHz) | Channel |      | RB  | RB Offset |                          | Band    | (MHz) | Freq (MHz) | Channel |         |            | Tx Power (dBm) | Tx Power (dBm) |  |
| CA_2A-2A   | Band 2  | Ant1 | 20M   | 1880       | 18900   | QPSK | 1   | 0         |                          | Band 2  | 5M    | 1987.5     | 1175    | 23.29   | 23.41      |                |                |  |
|            | Band 2  | Ant1 | 20M   | 1880       | 18900   | QPSK | 1   | 0         |                          | Band 4  | 20M   | 2132.5     | 2175    | 23.25   | 23.41      |                |                |  |
| CA_2A-4A   | Band 4  | Ant1 | 20M   | 1732.5     | 20175   | QPSK | 1   | 0         |                          | Band 2  | 20M   | 1960       | 900     | 23.12   | 23.33      |                |                |  |
|            | Band 2  | Ant1 | 20M   | 1880       | 18900   | QPSK | 1   | 0         |                          | Band 5  | 10M   | 881.5      | 2525    | 23.41   | 23.41      |                |                |  |
| CA_2A-5A   | Band 5  | Ant1 | 10M   | 836.5      | 20525   | QPSK | 1   | 0         |                          | Band 2  | 20M   | 1960       | 900     | 23.81   | 24.03      |                |                |  |
|            | Band 2  | Ant1 | 20M   | 1880       | 18900   | QPSK | 1   | 0         |                          | Band 7  | 20M   | 2655       | 3100    | 4x4MMMO | 23.19      | 23.33          |                |  |
| CA_2A-7A   | Band 7  | Ant2 | 20M   | 2535       | 21100   | QPSK | 1   | 0         | 4x4MMMO                  | Band 2  | 20M   | 1960       | 900     | 22.09   | 22.21      |                |                |  |
|            | Band 12 | Ant1 | 10M   | 707.5      | 23095   | QPSK | 1   | 0         |                          | Band 12 | 10M   | 737.5      | 5095    |         | 23.34      | 23.41          |                |  |
| CA_2A-12A  | Band 12 | Ant1 | 10M   | 707.5      | 23095   | QPSK | 1   | 0         |                          | Band 2  | 20M   | 1960       | 900     | 23.97   | 24.10      |                |                |  |
|            | Band 2  | Ant1 | 20M   | 1880       | 18900   | QPSK | 1   | 0         |                          | Band 13 | 10M   | 751        | 5230    |         | 23.22      | 23.41          |                |  |
| CA_2A-13A  | Band 13 | Ant1 | 10M   | 782        | 23230   | QPSK | 1   | 0         |                          | Band 2  | 20M   | 1960       | 900     | 24.05   | 24.11      |                |                |  |
|            | Band 2  | Ant1 | 20M   | 1880       | 18900   | QPSK | 1   | 0         |                          | Band 14 | 10M   | 763        | 5330    |         | 23.22      | 23.41          |                |  |
| CA_2A-14A  | Band 14 | Ant1 | 10M   | 793        | 23330   | QPSK | 1   | 0         |                          | Band 2  | 20M   | 1960       | 900     | 24.05   | 24.13      |                |                |  |
|            | Band 2  | Ant1 | 20M   | 1880       | 18900   | QPSK | 1   | 0         |                          | Band 66 | 20M   | 2155       | 66886   | 23.41   | 23.41      |                |                |  |
| CA_2A-66A  | Band 66 | Ant1 | 20M   | 1745       | 132322  | QPSK | 1   | 0         |                          | Band 2  | 20M   | 1960       | 900     | 23.27   | 23.38      |                |                |  |
|            | Band 2  | Ant1 | 20M   | 1880       | 18900   | QPSK | 1   | 0         |                          | Band 71 | 20M   | 683        | 68786   | 23.29   | 23.41      |                |                |  |
| CA_2A-71A  | Band 71 | Ant1 | 20M   | 683        | 133322  | QPSK | 1   | 0         |                          | Band 2  | 20M   | 1960       | 900     | 23.64   | 23.71      |                |                |  |
|            | Band 4  | Ant1 | 20M   | 1732.5     | 20175   | QPSK | 1   | 0         |                          | Band 5  | 5M    | 2152.5     | 2375    | 23.11   | 23.33      |                |                |  |
| CA_4A-4A   | Band 4  | Ant1 | 20M   | 1732.5     | 20175   | QPSK | 1   | 0         |                          | Band 5  | 10M   | 881.5      | 2525    | 23.15   | 23.33      |                |                |  |
|            | Band 5  | Ant1 | 10M   | 836.5      | 20525   | QPSK | 1   | 0         |                          | Band 4  | 20M   | 2132.5     | 2175    | 23.64   | 24.03      |                |                |  |
| CA_4A-5A   | Band 4  | Ant1 | 20M   | 1732.5     | 20175   | QPSK | 1   | 0         |                          | Band 7  | 20M   | 2655       | 3100    | 4x4MMMO | 23.14      | 23.33          |                |  |
|            | Band 7  | Ant2 | 20M   | 2535       | 21100   | QPSK | 1   | 0         | 4x4MMMO                  | Band 4  | 20M   | 2132.5     | 2175    | 22.06   | 22.21      |                |                |  |
| CA_4A-7A   | Band 7  | Ant2 | 20M   | 2535       | 21100   | QPSK | 1   | 0         |                          | Band 4  | 20M   | 2132.5     | 2175    | 22.06   | 22.21      |                |                |  |
|            | Band 12 | Ant1 | 10M   | 707.5      | 23095   | QPSK | 1   | 0         |                          | Band 12 | 10M   | 737.5      | 5095    | 23.28   | 23.33      |                |                |  |
| CA_4A-12A  | Band 12 | Ant1 | 10M   | 707.5      | 23095   | QPSK | 1   | 0         |                          | Band 4  | 20M   | 2132.5     | 2175    | 23.98   | 24.10      |                |                |  |
|            | Band 4  | Ant1 | 20M   | 1732.5     | 20175   | QPSK | 1   | 0         |                          | Band 13 | 10M   | 751        | 5230    | 23.24   | 23.33      |                |                |  |
| CA_4A-13A  | Band 13 | Ant1 | 10M   | 782        | 23230   | QPSK | 1   | 0         |                          | Band 4  | 20M   | 2132.5     | 2175    | 23.99   | 24.11      |                |                |  |
|            | Band 4  | Ant1 | 20M   | 1732.5     | 20175   | QPSK | 1   | 0         |                          | Band 48 | 20M   | 3609       | 56830   | 4x4MMMO | 23.11      | 23.33          |                |  |
| CA_4A-48A  | Band 4  | Ant1 | 20M   | 1732.5     | 20175   | QPSK | 1   | 0         |                          | Band 71 | 20M   | 683        | 68786   | 23.23   | 23.33      |                |                |  |
|            | Band 71 | Ant1 | 20M   | 683        | 133322  | QPSK | 1   | 0         |                          | Band 4  | 20M   | 2132.5     | 2175    | 23.62   | 23.71      |                |                |  |
| CA_5A-5A   | Band 5  | Ant1 | 10M   | 836.5      | 20525   | QPSK | 1   | 0         |                          | Band 5  | 5M    | 881.5      | 2625    | 23.95   | 24.03      |                |                |  |
|            | Band 5  | Ant1 | 10M   | 836.5      | 20525   | QPSK | 1   | 0         |                          | Band 7  | 20M   | 2655       | 3100    | 4x4MMMO | 23.94      | 24.03          |                |  |
| CA_5A-7A   | Band 7  | Ant2 | 20M   | 2535       | 21100   | QPSK | 1   | 0         | 4x4MMMO                  | Band 5  | 10M   | 881.5      | 2525    | 22.10   | 22.21      |                |                |  |
|            | Band 5  | Ant1 | 10M   | 836.5      | 20525   | QPSK | 1   | 0         |                          | Band 48 | 20M   | 3609       | 56830   | 4x4MMMO | 23.85      | 24.03          |                |  |
| CA_5A-66A  | Band 5  | Ant1 | 10M   | 836.5      | 20525   | QPSK | 1   | 0         |                          | Band 66 | 20M   | 2155       | 66886   | 23.87   | 24.03      |                |                |  |
|            | Band 66 | Ant1 | 20M   | 1745       | 132322  | QPSK | 1   | 0         |                          | Band 5  | 10M   | 881.5      | 2525    | 23.20   | 23.38      |                |                |  |
| CA_5A-71A  | Band 5  | Ant1 | 10M   | 836.5      | 20525   | QPSK | 1   | 0         |                          | Band 5  | 5M    | 888.7      | 2597    | 23.82   | 24.03      |                |                |  |
|            | Band 7  | Ant2 | 20M   | 2535       | 21100   | QPSK | 1   | 0         | 4x4MMMO                  | Band 7  | 5M    | 2687.5     | 3425    | 4x4MMMO | 22.14      | 22.21          |                |  |
| CA_7A-12A  | Band 7  | Ant2 | 20M   | 2535       | 21100   | QPSK | 1   | 0         | 4x4MMMO                  | Band 12 | 10M   | 737.5      | 5095    | 22.16   | 22.21      |                |                |  |
|            | Band 12 | Ant1 | 10M   | 707.5      | 23095   | QPSK | 1   | 0         |                          | Band 7  | 20M   | 2655       | 3100    | 4x4MMMO | 23.94      | 24.10          |                |  |
| CA_7A-66A  | Band 7  | Ant2 | 20M   | 2535       | 21100   | QPSK | 1   | 0         | 4x4MMMO                  | Band 66 | 20M   | 2155       | 66886   | 22.02   | 22.21      |                |                |  |
|            | Band 66 | Ant1 | 20M   | 1745       | 132322  | QPSK | 1   | 0         |                          | Band 7  | 20M   | 2655       | 3100    | 4x4MMMO | 23.19      | 23.33          |                |  |
| CA_7C      | Band 7  | Ant2 | 20M   | 2535       | 21100   | QPSK | 1   | 0         | 4x4MMMO                  | Band 7  | 20M   | 2154.8     | 3296    | 4x4MMMO | 22.06      | 22.21          |                |  |
|            | Band 12 | Ant1 | 10M   | 707.5      | 23095   | QPSK | 1   | 0         |                          | Band 66 | 20M   | 2155       | 66886   | 24.09   | 24.10      |                |                |  |
| CA_12A-66A | Band 12 | Ant1 | 10M   | 707.5      | 23095   | QPSK | 1   | 0         |                          | Band 12 | 10M   | 737.5      | 5095    | 23.21   | 23.38      |                |                |  |
|            | Band 12 | Ant1 | 10M   | 707.5      | 23095   | QPSK | 1   | 0         |                          | Band 12 | 5M    | 743.5      | 5155    | 24.02   | 24.10      |                |                |  |
| CA_13A-48A | Band 13 | Ant1 | 10M   | 782        | 23230   | QPSK | 1   | 0         |                          | Band 48 | 20M   | 3609       | 56830   | 4x4MMMO | 24.04      | 24.11          |                |  |
|            | Band 13 | Ant1 | 10M   | 782        | 23230   | QPSK | 1   | 0         |                          | Band 66 | 20M   | 2155       | 66886   | 23.94   | 24.11      |                |                |  |
| CA_13A-66A | Band 66 | Ant1 | 20M   | 1745       | 132322  | QPSK | 1   | 0         |                          | Band 13 | 10M   | 751        | 5230    | 23.13   | 23.38      |                |                |  |
|            | Band 14 | Ant1 | 10M   | 793        | 23330   | QPSK | 1   | 0         |                          | Band 66 | 20M   | 2155       | 66886   | 23.96   | 24.13      |                |                |  |
| CA_14A-66A | Band 66 | Ant1 | 20M   | 1745       | 132322  | QPSK | 1   | 0         |                          | Band 14 | 10M   | 763        | 5330    | 23.20   | 23.38      |                |                |  |
|            | Band 41 | Ant2 | 20M   | 2593       | 40620   | QPSK | 1   | 0         | 4x4MMMO                  | Band 41 | 5M    | 2687.5     | 41565   | 4x4MMMO | 22.90      | 23.14          |                |  |
| CA_41A-41A | Band 41 | Ant2 | 20M   | 2593       | 40620   | QPSK | 1   | 0         | 4x4MMMO                  | Band 41 | 20M   | 2012.8     | 40810   | 4x4MMMO | 22.91      | 23.14          |                |  |
|            | Band 48 | Ant6 | 20M   | 3609       | 56830   | QPSK | 1   | 0         | 4x4MMMO                  | Band 48 | 5M    | 3697.5     | 56715   | 4x4MMMO | 22.91      | 22.72          |                |  |
| CA_48A-48A | Band 48 | Ant6 | 20M   | 3609       | 56830   | QPSK | 1   | 0         | 4x4MMMO                  | Band 48 | 20M   | 3628.8     | 56028   | 4x4MMMO | 22.67      | 22.72          |                |  |
|            | Band 71 | Ant1 | 20M   | 683        | 133322  | QPSK | 1   | 0         |                          | Band 48 | 20M   | 3609       | 56830   | 4x4MMMO | 23.65      | 23.71          |                |  |
| CA_48A-71A | Band 66 | Ant1 | 20M   | 1745       | 132322  | QPSK | 1   | 0         |                          | Band 66 | 5M    | 2197.5     | 67311   |         | 23.14      | 23.38          |                |  |
|            | Band 71 | Ant1 | 20M   | 683        | 133322  | QPSK | 1   | 0         |                          | Band 71 | 20M   | 683        | 68786   |         | 23.29      | 23.38          |                |  |
| CA_66A-71A | Band 66 | Ant1 | 20M   | 683        | 133322  | QPSK | 1   | 0         |                          | Band 66 | 20M   | 2155       | 66886   |         | 23.56      | 23.71          |                |  |
|            | Band 66 | Ant1 | 15M   | 1745       | 132322  | QPSK | 1   | 0         |                          | Band 66 | 5M    | 2164.3     | 69979   |         | 23.29      | 23.38          |                |  |
| CA_66C     | Band 66 | Ant1 | 20M   | 1745       | 132322  | QPSK | 1   | 0         |                          | Band 66 | 20M   | 2164.8     | 66994   |         | 23.32      | 23.38          |                |  |
|            | Band 2  | Ant1 | 20M   | 1880       | 18900   | QPSK | 1   | 0         |                          | Band 2  | 20M   | 1979.8     | 1098    |         | 23.22      | 23.38          |                |  |
| CA_2A-48A  | Band 2  | Ant1 | 20M   | 1880       | 18900   | QPSK | 1   | 0         |                          | Band 48 | 20M   | 3609       | 56830   | 4x4MMMO | 23.24      | 23.38          |                |  |
|            | Band 66 | Ant1 | 20M   | 1745       | 132322  | QPSK | 1   | 0         | 4x4MMMO                  | Band 48 | 20M   | 3609       | 56830   |         | 23.13      | 23.38          |                |  |