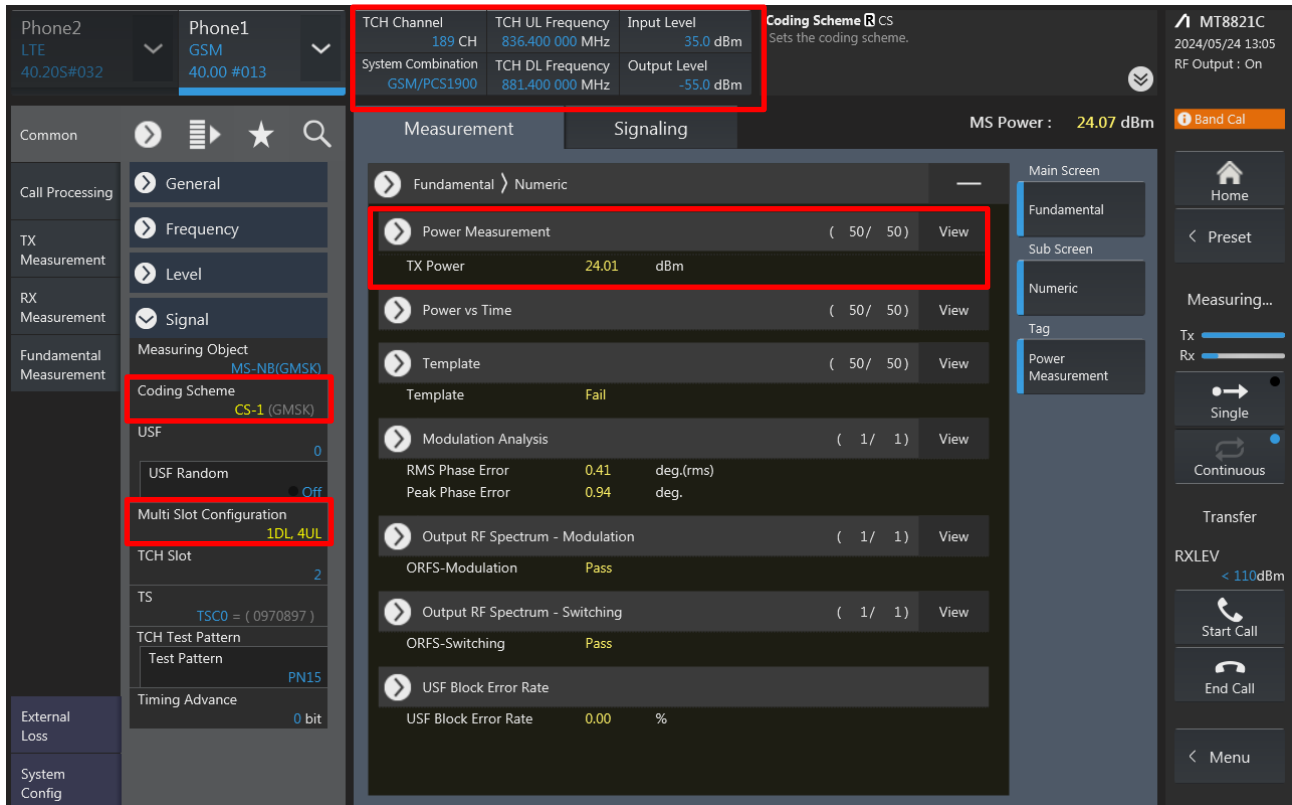


Power measurement connection diagram:

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.

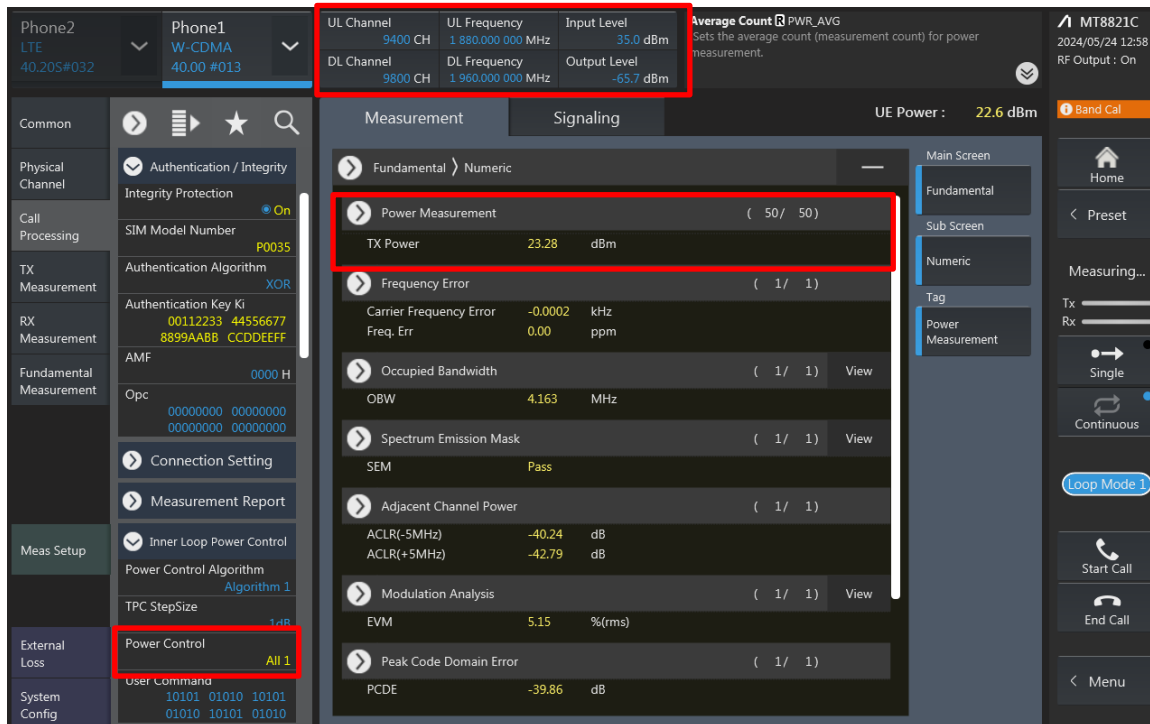
<GSM>



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

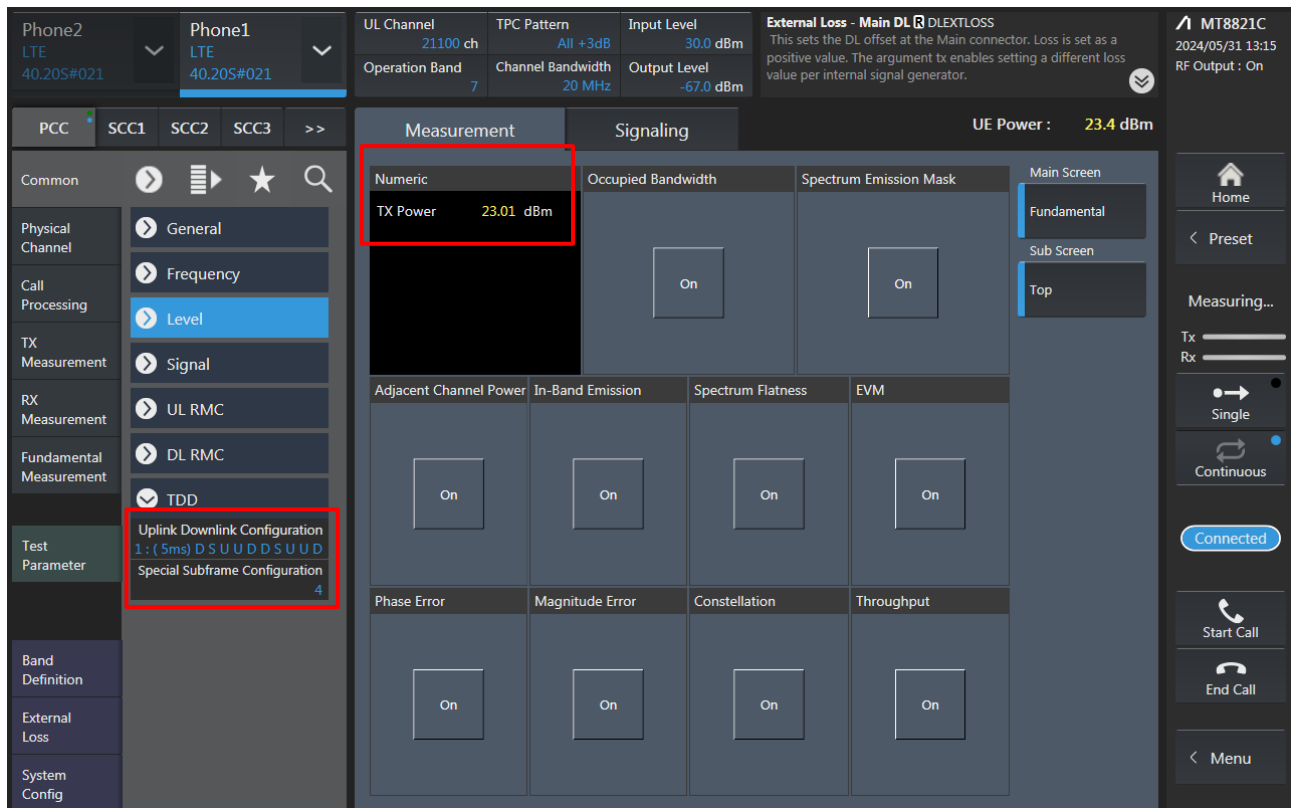
- Top Bar:** Shows Phone2 (LTE, 40.205#032) and Phone1 (GSM, 40.00 #013). It also displays TCH Channel (189 CH), TCH UL Frequency (836.400 000 MHz), Input Level (35.0 dBm), TCH DL Frequency (881.400 000 MHz), and Output Level (-55.0 dBm). The Coding Scheme is set to CS.
- Left Sidebar:** Contains navigation options like Common, Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, and External Loss. The 'Fundamental Measurement' section is expanded, showing options like General, Frequency, Level, Signal, and Coding Scheme (CS-1 (GMSK)).
- Main Area:** Displays the 'Measurement' tab with a 'Fundamental' sub-tab. The 'Power Measurement' section shows TX Power at 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'.
- Right Sidebar:** Shows the 'Main Screen' with options like Fundamental, Sub Screen, Numeric, and Tag. It also displays the 'MS Power' as 24.07 dBm and the 'Band Cal' status.

<WCDMA>



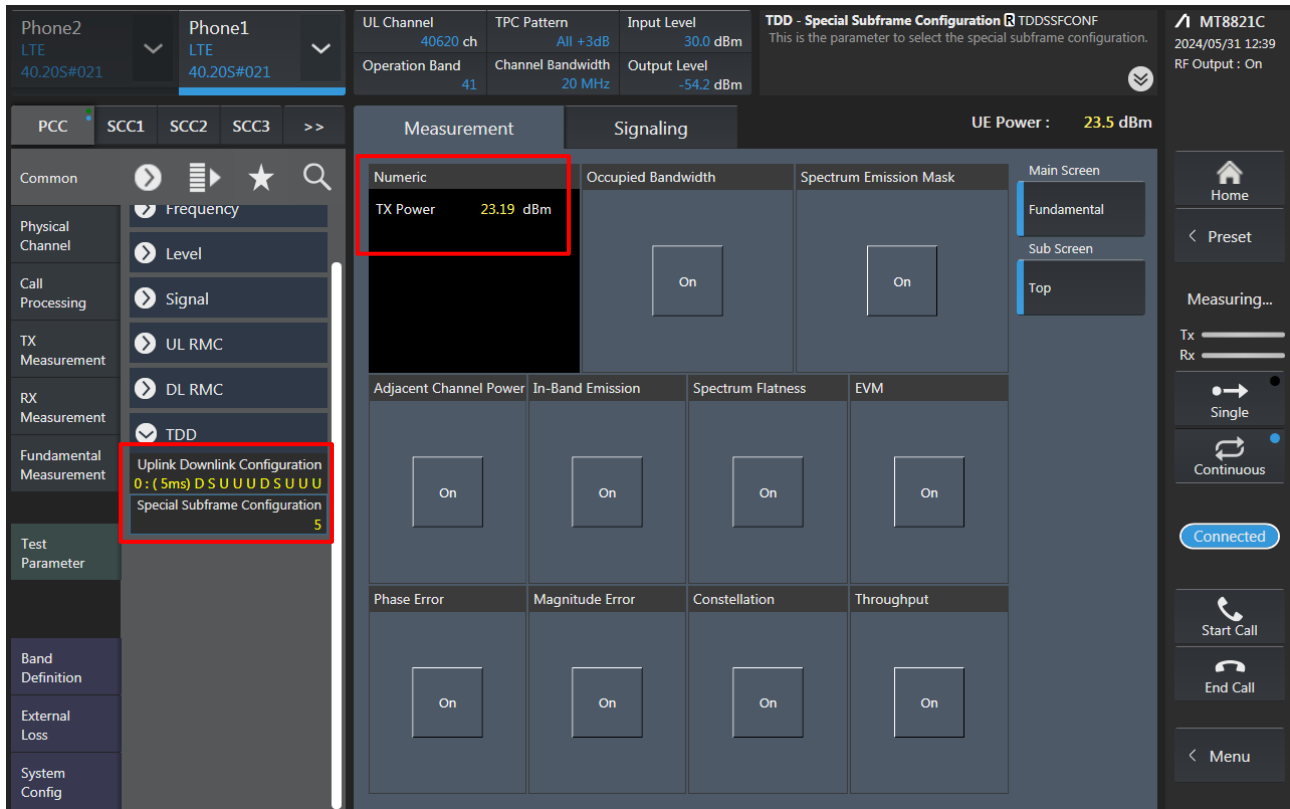
The screenshot shows the WCDMA measurement interface. The top bar displays 'Phone2 LTE 40.20S#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' tab is active, showing 'Fundamental' and 'Numeric' views. The 'Power Measurement' section is highlighted with a red box, showing 'TX Power' as 23.28 dBm. 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 TDD - Special Subframe Configuration TDDSSFCNF This is the parameter to select the special subframe configuration. MT8821C 2024/05/31 12:39 RF Output : On

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

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

Common Frequency

Physical Channel Level

Call Processing Signal

TX Measurement UL RMC

RX Measurement DL RMC

Fundamental Measurement TDD

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

Special Subframe Configuration 5

Test Parameter

Band Definition

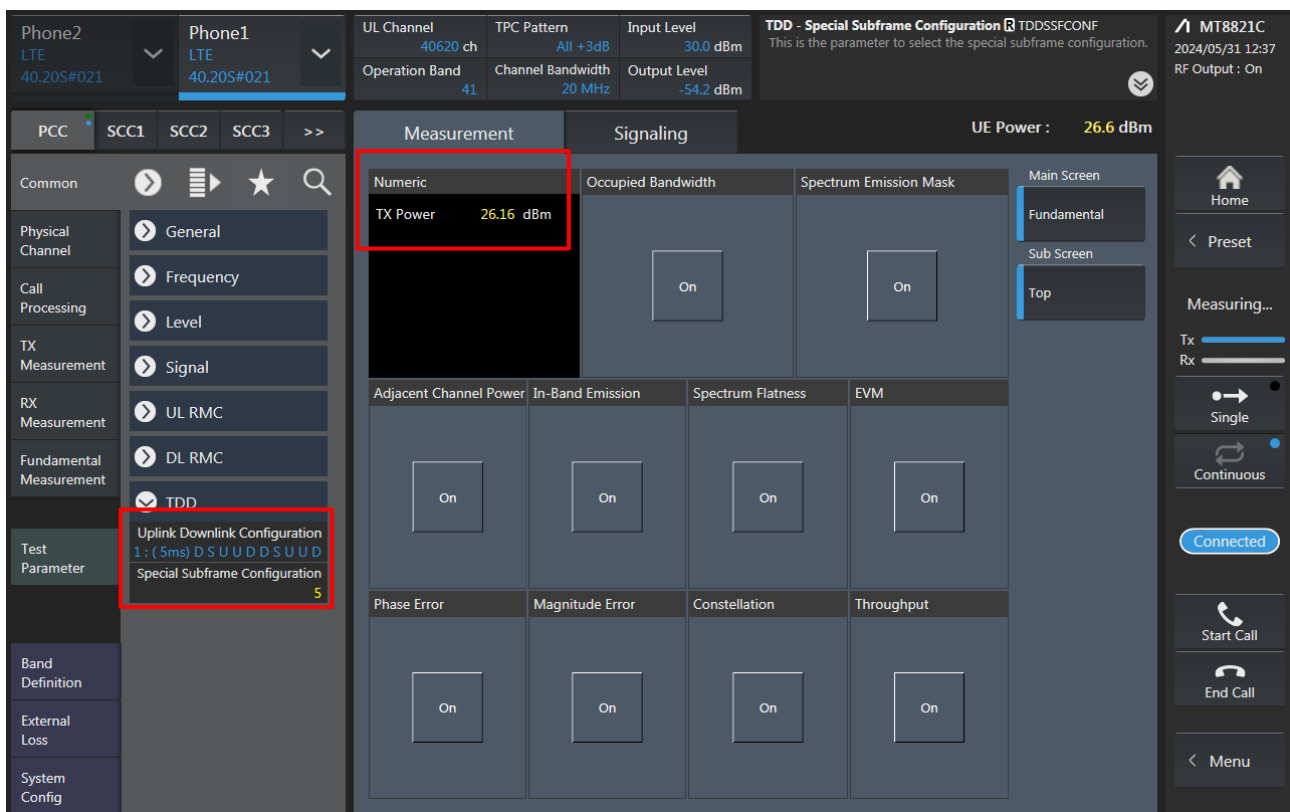
External Loss

System Config

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 TDD - Special Subframe Configuration TDDSSFCNF This is the parameter to select the special subframe configuration. MT8821C 2024/05/31 12:37 RF Output : On

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

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

Common General Frequency

Physical Channel Level

Call Processing Signal

TX Measurement UL RMC

RX Measurement DL RMC

Fundamental Measurement TDD

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

Special Subframe Configuration 5

Test Parameter

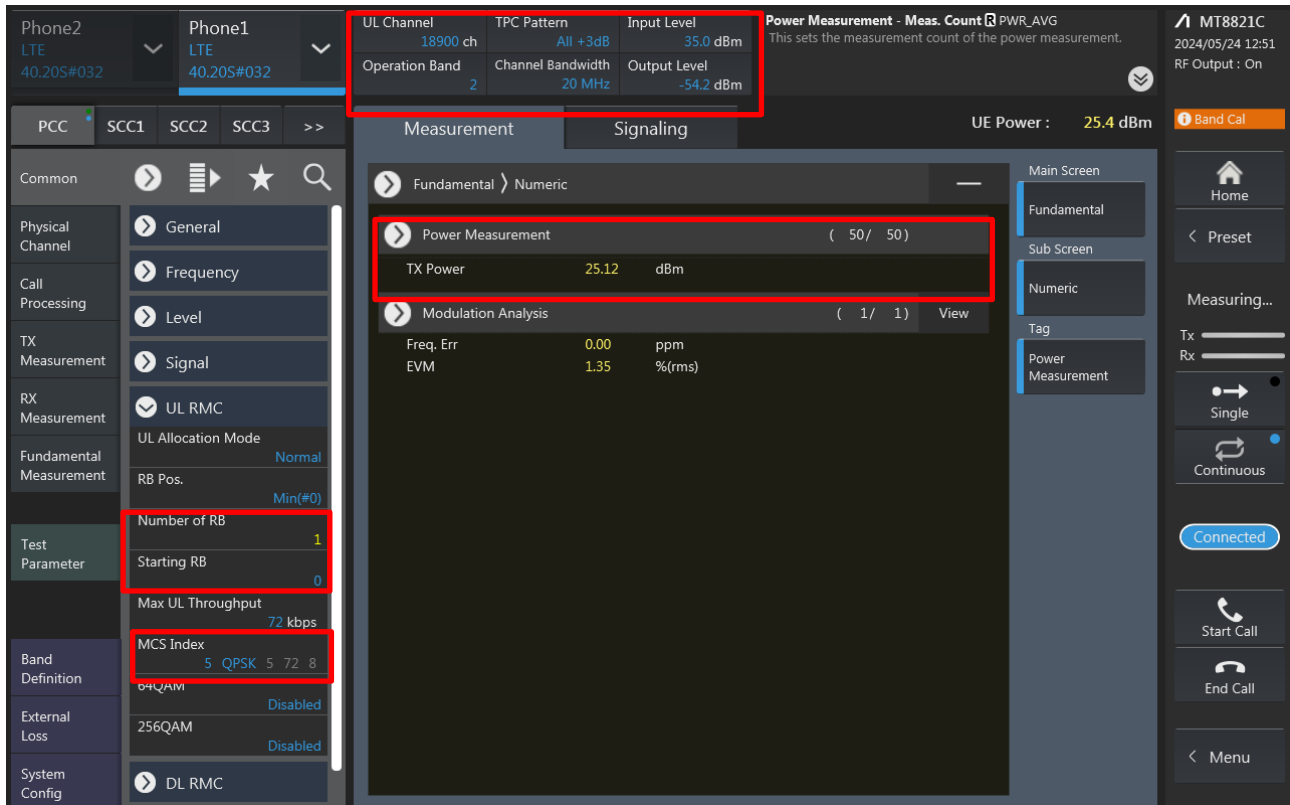
Band Definition

External Loss

System Config

Main Screen Fundamental Sub Screen Top

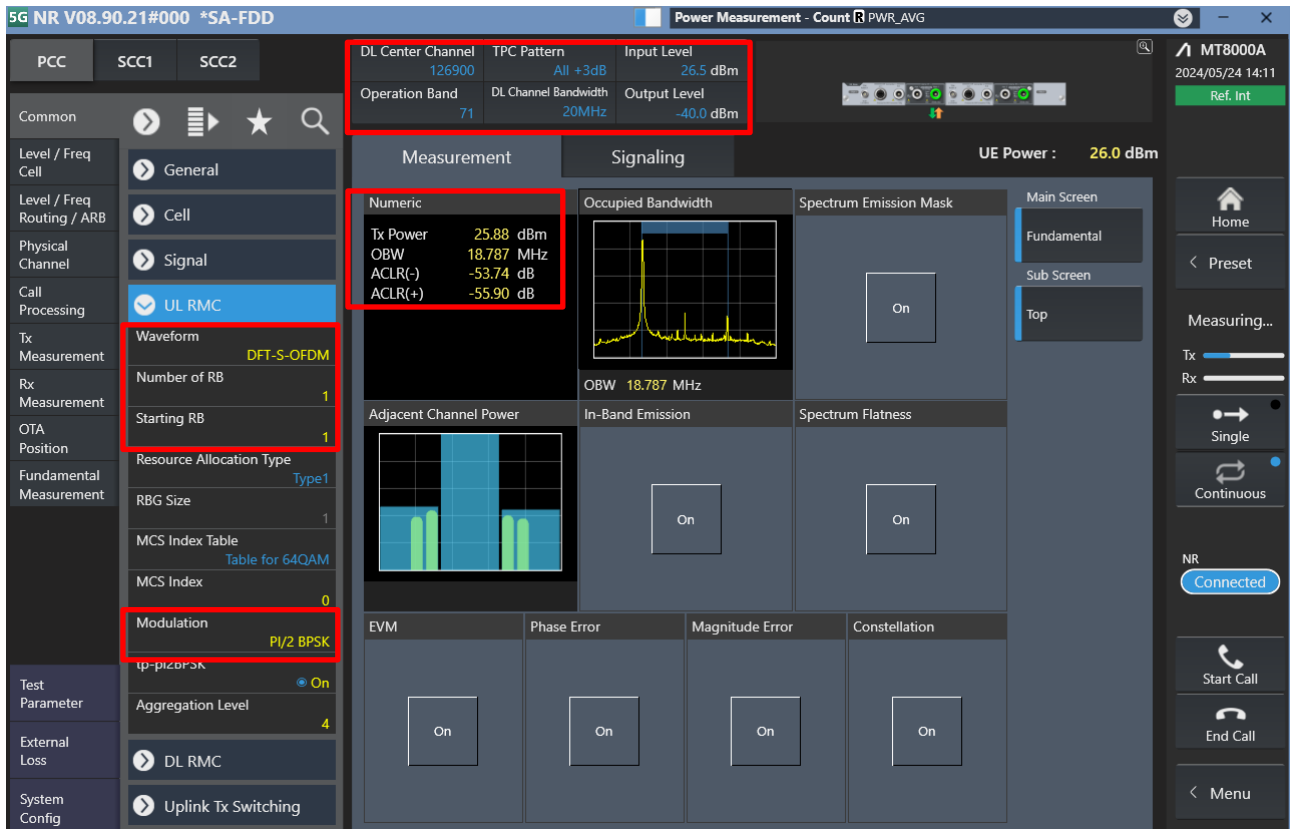
Home Preset Measuring... Tx Rx Single Continuous Connected Start Call End Call Menu



The screenshot displays the LTE test interface with the following configuration and measurement data:

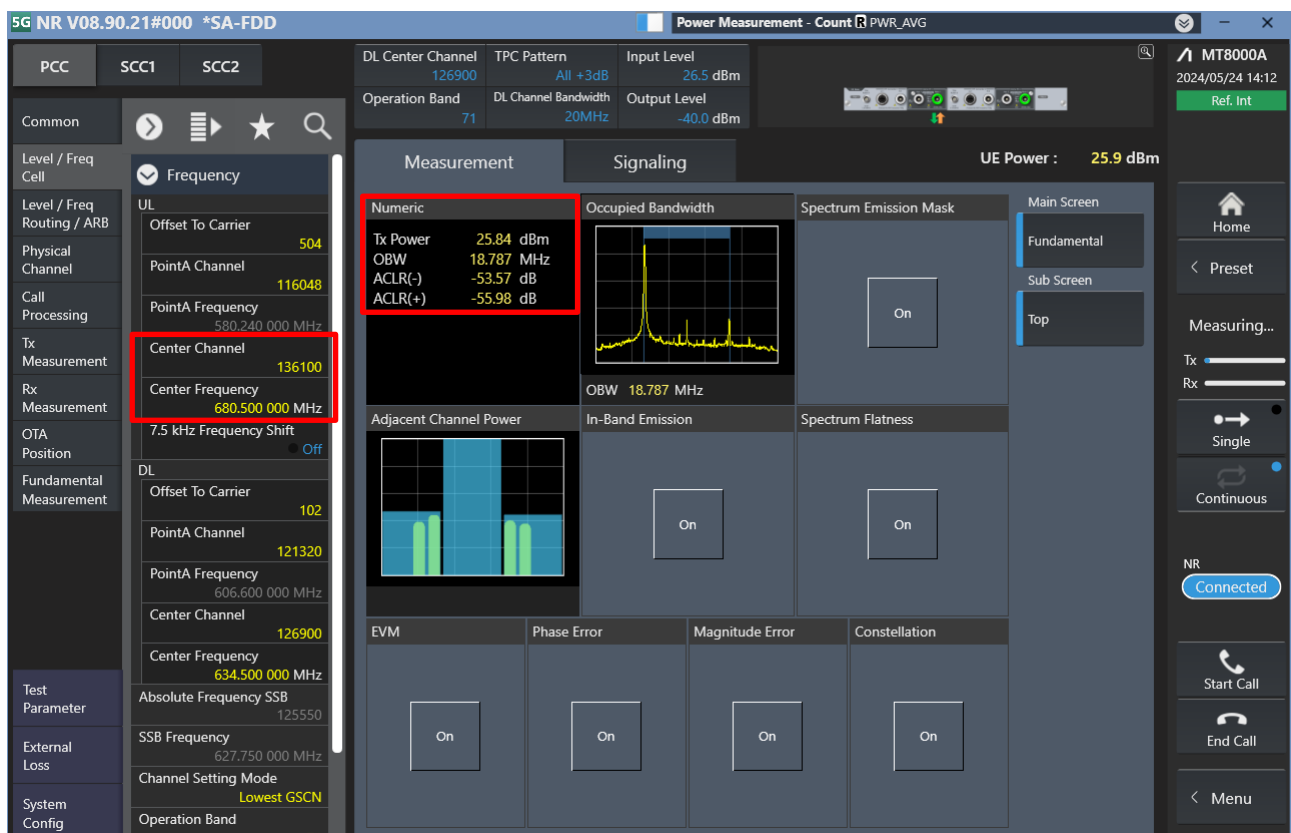
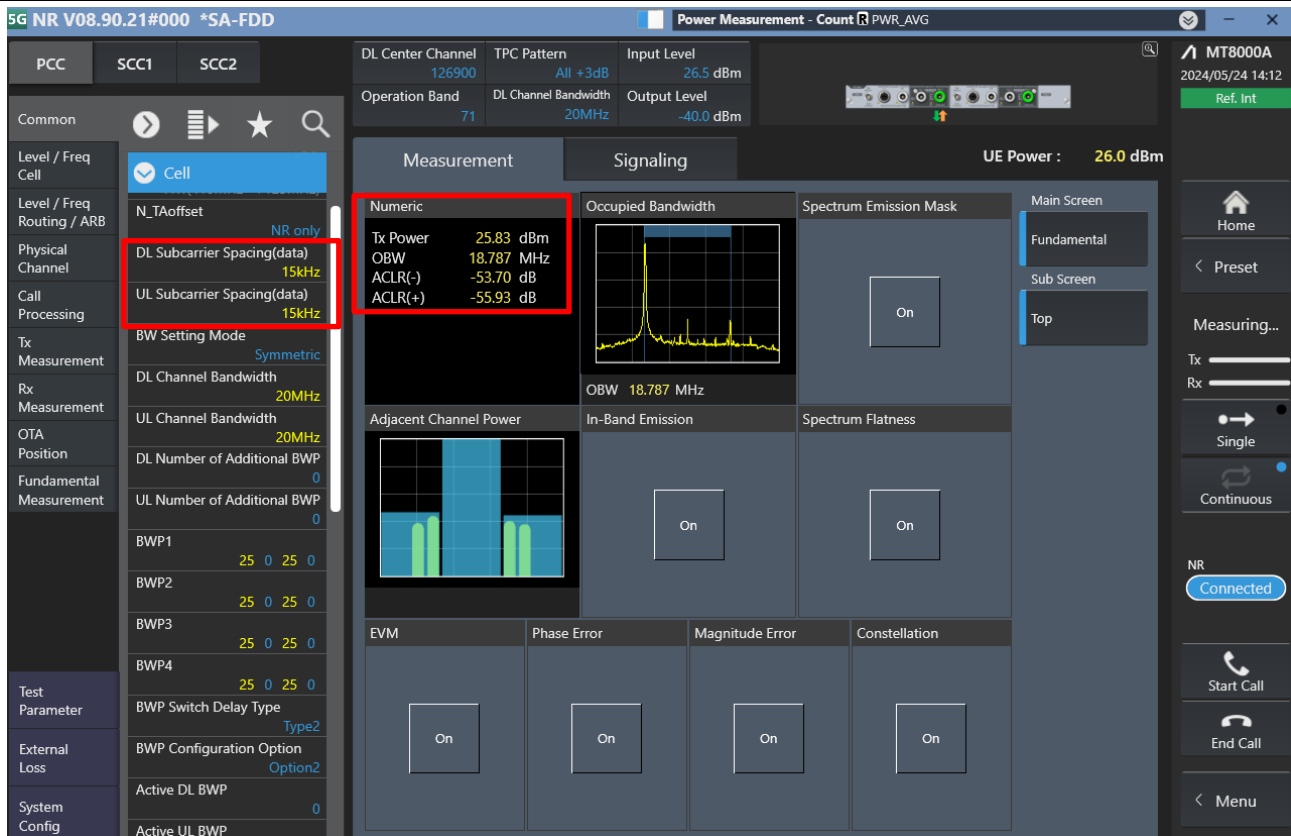
- Phone Configuration:** Phone1 (LTE, 40.20S#032) and Phone2 (LTE, 40.20S#032).
- Measurement Parameters:**
 - UL Channel: 18900 ch
 - TPC Pattern: All +3dB
 - Input Level: 35.0 dBm
 - Operation Band: 2
 - Channel Bandwidth: 20 MHz
 - Output Level: -54.2 dBm
- Power Measurement:** Meas. Count (PWR_AVG) - This sets the measurement count of the power measurement.
- UE Power:** 25.4 dBm
- Test Parameters:**
 - 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
 - System Config: DL RMC
- Measurement Results:**
 - TX Power: 25.12 dBm
 - Freq. Err: 0.00 ppm
 - EVM: 1.35 % (rms)

<5G NR FR1>



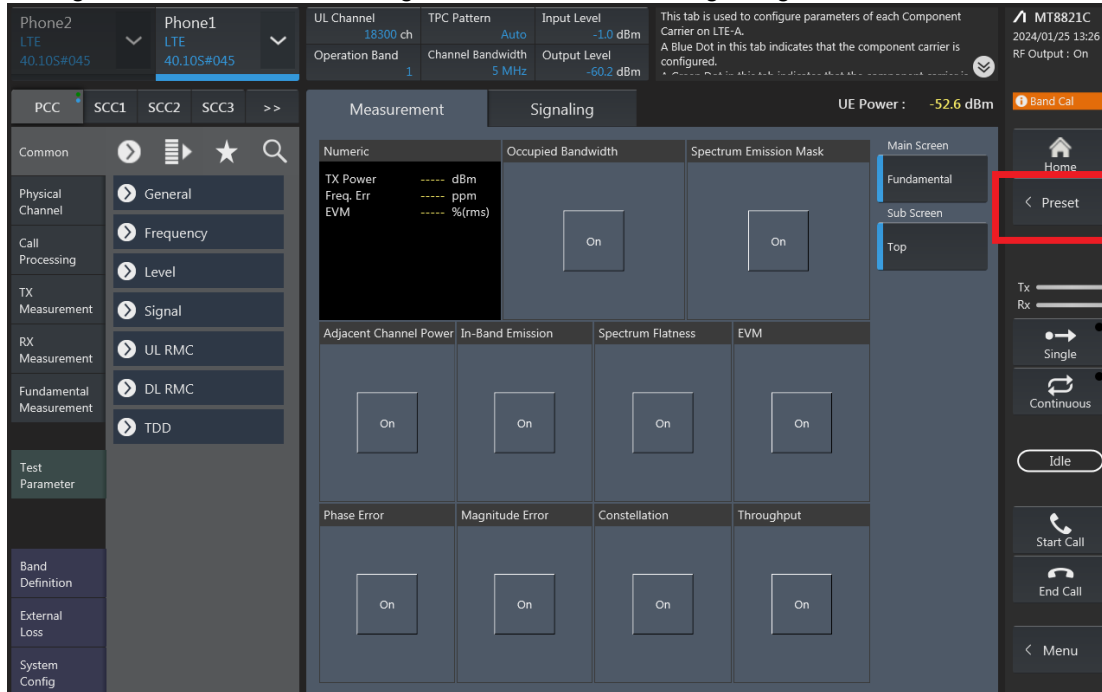
The screenshot displays the 5G NR FR1 test interface with the following configuration and measurement data:

- 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
- UE Power:** 26.0 dBm
- Test Parameters:**
 - 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
 - Uplink Tx Switching: On
- Measurement Results:**
 - Tx Power: 25.88 dBm
 - OBW: 18.787 MHz
 - ACL(-): -53.74 dB
 - ACL(+): -55.90 dB
 - Occupied Bandwidth: 18.787 MHz
 - Adjacent Channel Power: On
 - In-Band Emission: On
 - Spectrum Flatness: On
 - EVM: On
 - Phase Error: On
 - Magnitude Error: On
 - Constellation: On



LTE Uplink and Downlink Carrier Aggregation configurations:

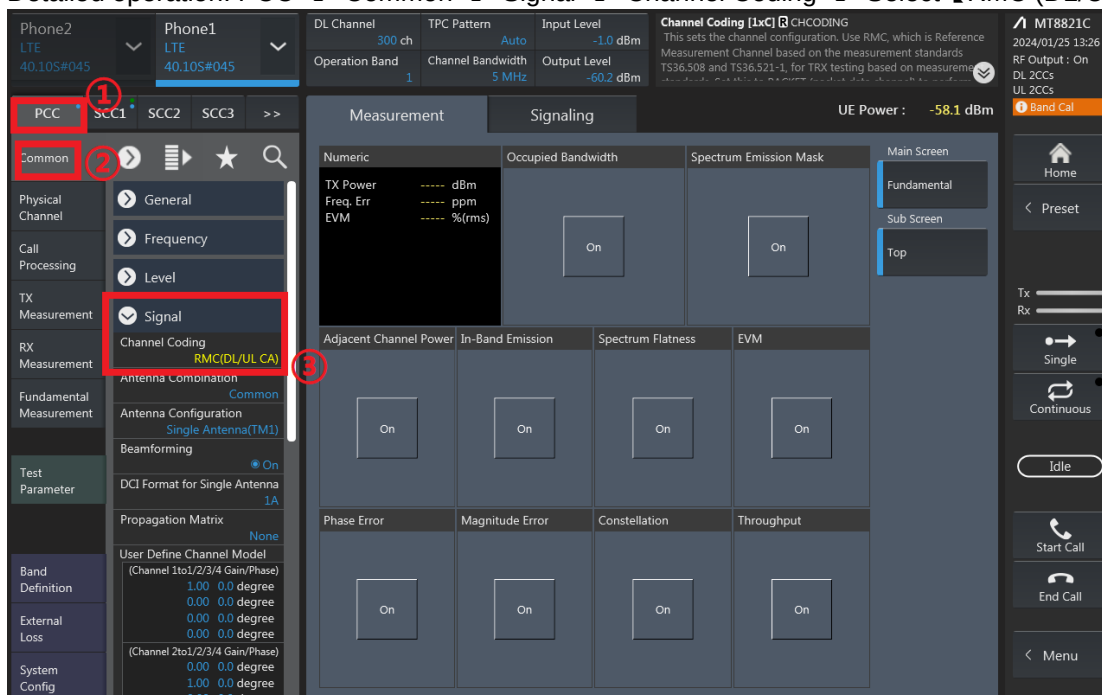
1. Change the Scenario in the Configuration of Phone1 LTE Signaling and Preset.



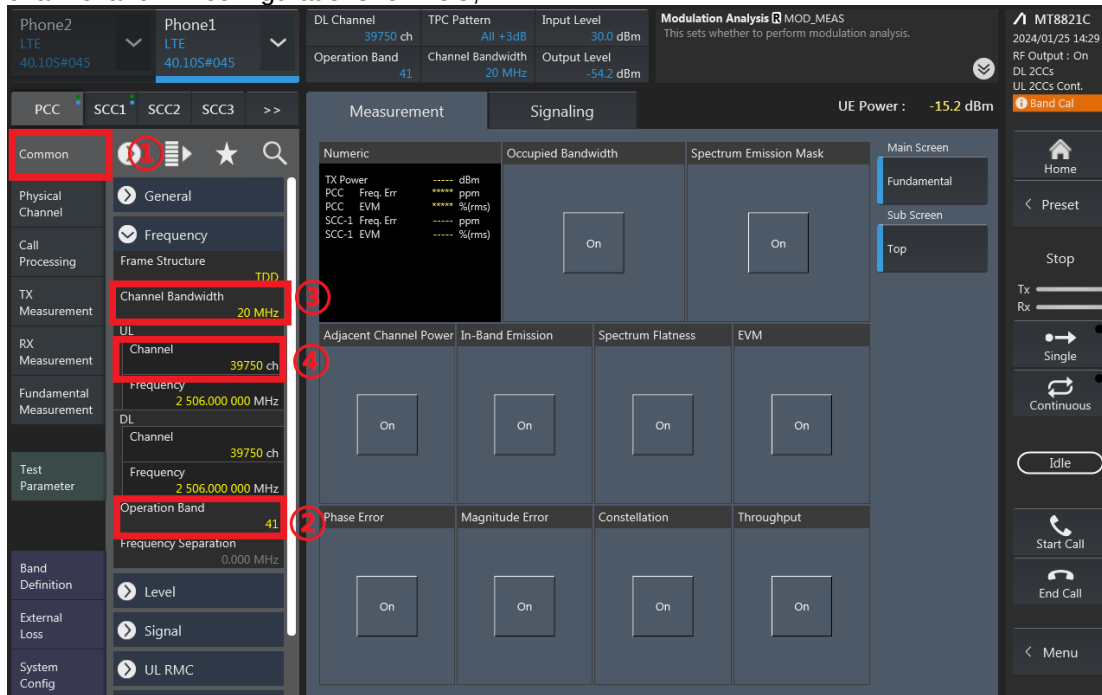
2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.

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;



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 PCC-1 Freq. Err. ppm PCC-1 EVM ppm

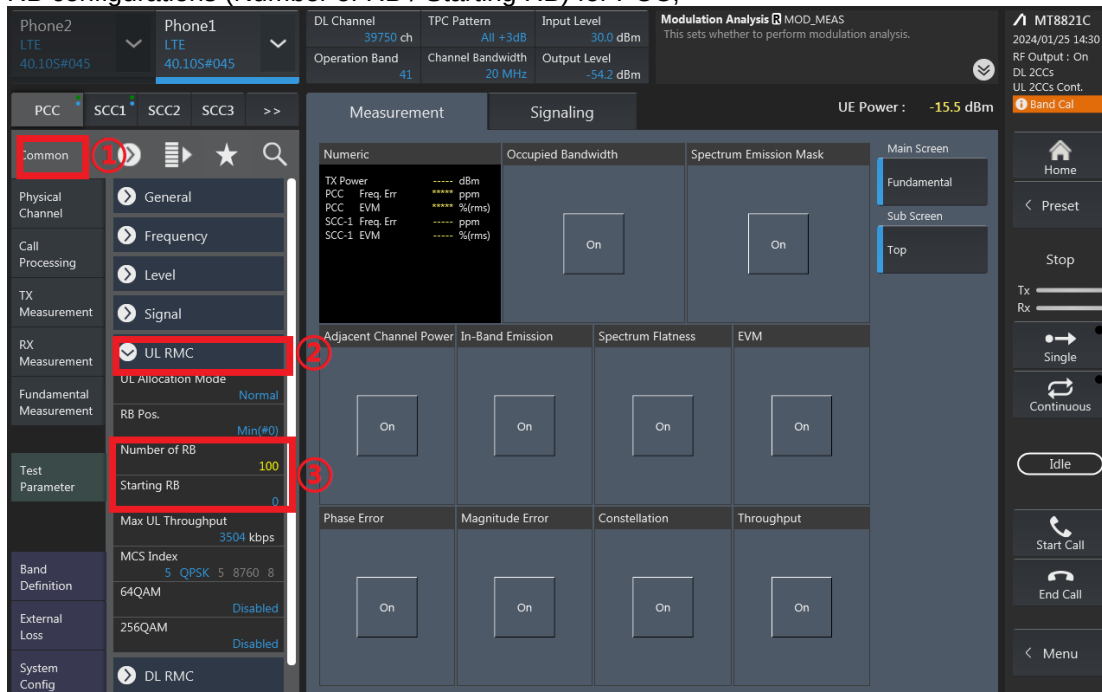
Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

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 PCC-1 Freq. Err. ppm PCC-1 EVM ppm

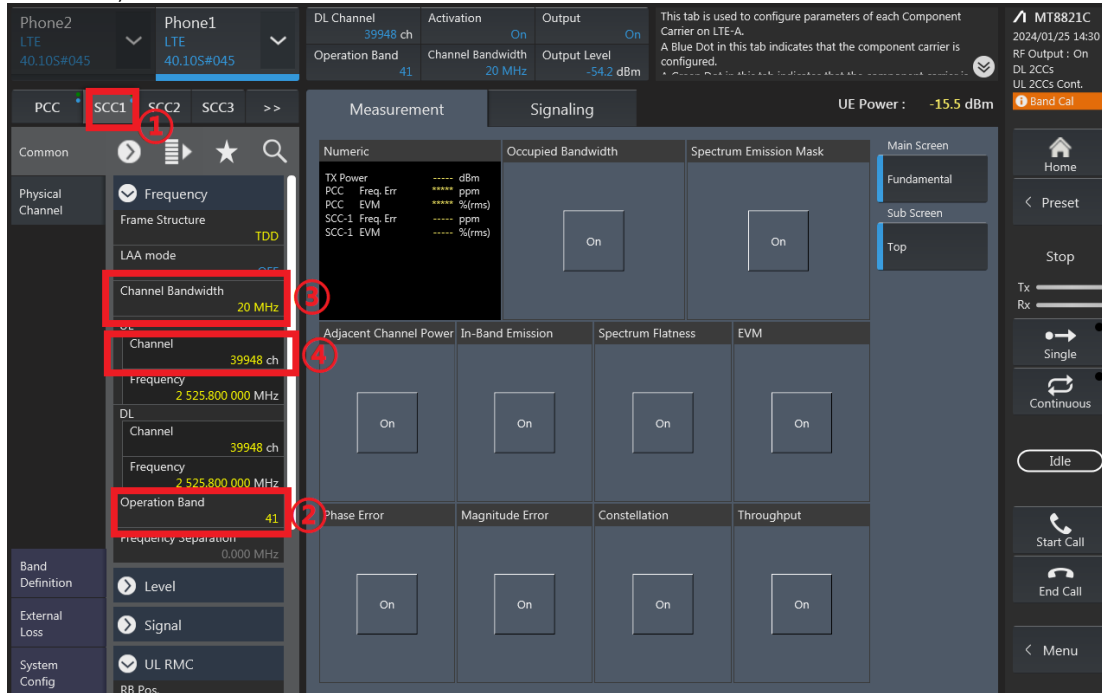
Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

Phase Error Magnitude Error Constellation Throughput

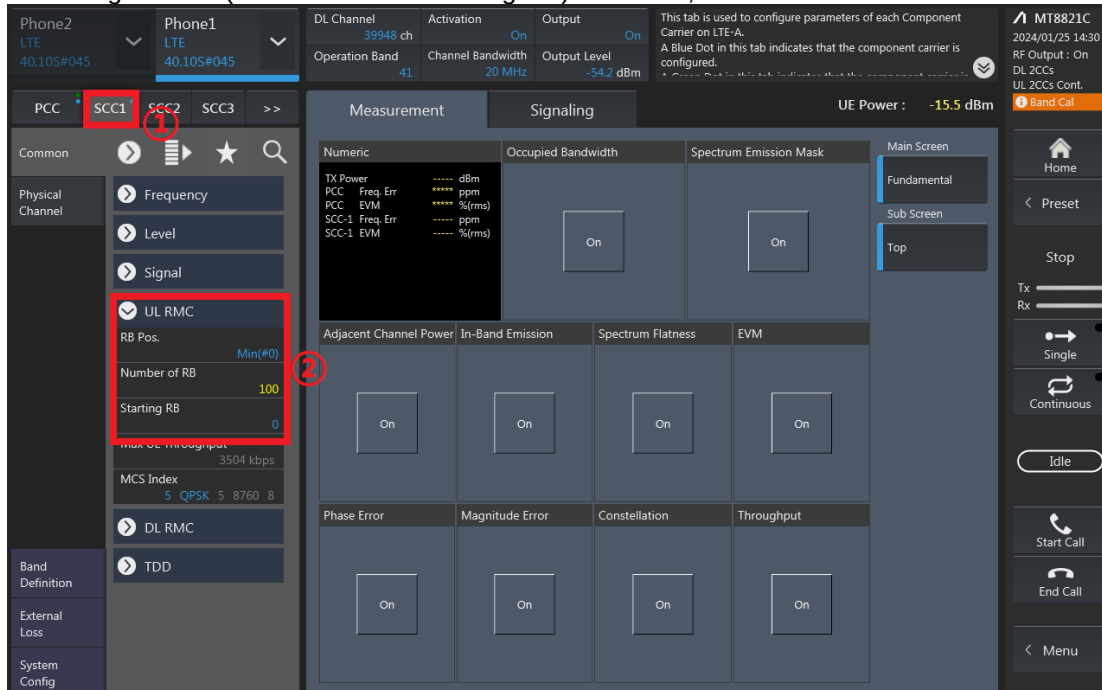
Main Screen Fundamental Sub Screen Top

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

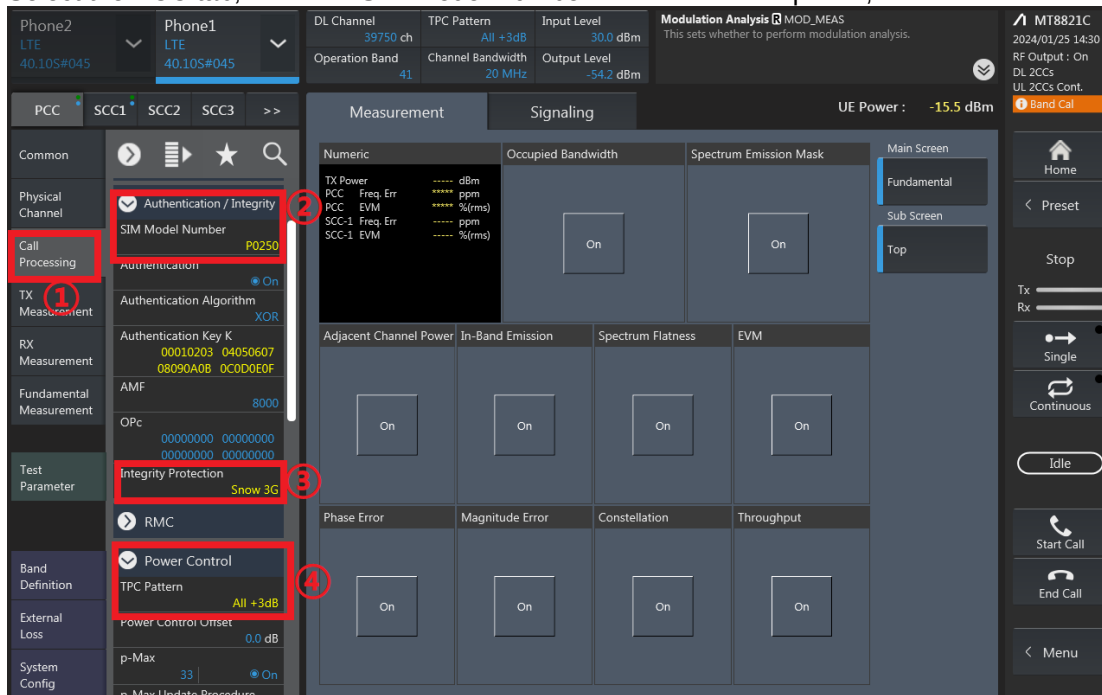
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



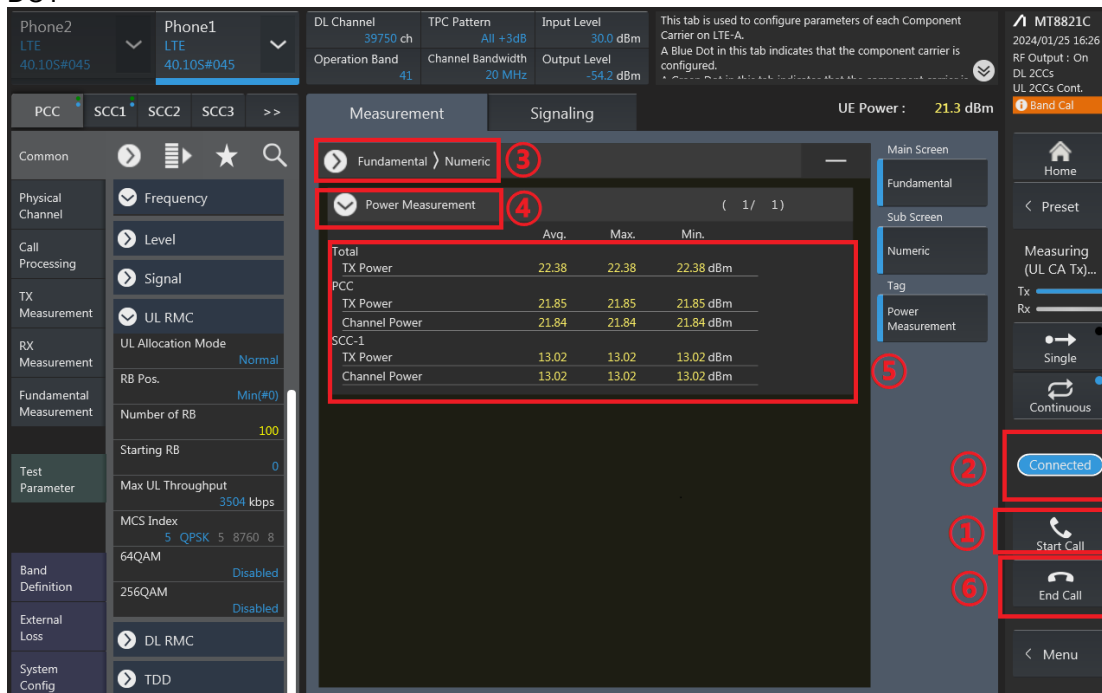
RB configurations (Number of RB / Starting RB) for SCC1;



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



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

Uplink CA Power

CA_2C_Ant 4											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
18700	18898	QPSK	1	0	0	0	1	0	Default	22.81	23.80
18900	19098	QPSK	1	0	0	0	1	0	Default	22.91	23.80
19100	18902	QPSK	1	0	0	0	1	0	Default	22.76	23.80
18700	18898	QPSK	1	0	0	0	1	0	ECI 3	20.94	21.80
18900	19098	QPSK	1	0	0	0	1	0	ECI 3	20.95	21.80
19100	18902	QPSK	1	0	0	0	1	0	ECI 3	20.94	21.80
18700	18898	QPSK	1	0	0	0	1	0	ECI 5	22.81	23.80
18900	19098	QPSK	1	0	0	0	1	0	ECI 5	22.91	23.80
19100	18902	QPSK	1	0	0	0	1	0	ECI 5	22.76	23.80
18700	18898	QPSK	1	0	0	0	1	0	ECI 8	20.42	21.30
18900	19098	QPSK	1	0	0	0	1	0	ECI 8	20.44	21.30
19100	18902	QPSK	1	0	0	0	1	0	ECI 8	20.39	21.30
18700	18898	QPSK	1	0	0	0	1	0	ECI 10	22.81	23.80
18900	19098	QPSK	1	0	0	0	1	0	ECI 10	22.91	23.80
19100	18902	QPSK	1	0	0	0	1	0	ECI 10	22.76	23.80
18700	18898	QPSK	1	0	0	0	1	0	ECI 13	18.90	19.80
18900	19098	QPSK	1	0	0	0	1	0	ECI 13	18.96	19.80
19100	18902	QPSK	1	0	0	0	1	0	ECI 13	18.88	19.80
18700	18898	QPSK	1	0	0	0	1	0	ECI 15	22.81	23.80
18900	19098	QPSK	1	0	0	0	1	0	ECI 15	22.91	23.80
19100	18902	QPSK	1	0	0	0	1	0	ECI 15	22.76	23.80

CA_2C_Ant 3											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
18700	18898	QPSK	1	0	0	0	1	0	Default	23.08	23.80
18900	19098	QPSK	1	0	0	0	1	0	Default	23.19	23.80
19100	18902	QPSK	1	0	0	0	1	0	Default	23.10	23.80
18700	18898	QPSK	1	0	0	0	1	0	ECI 3	22.15	22.80
18900	19098	QPSK	1	0	0	0	1	0	ECI 3	22.21	22.80
19100	18902	QPSK	1	0	0	0	1	0	ECI 3	22.13	22.80
18700	18898	QPSK	1	0	0	0	1	0	ECI 5	18.58	19.30
18900	19098	QPSK	1	0	0	0	1	0	ECI 5	18.68	19.30
19100	18902	QPSK	1	0	0	0	1	0	ECI 5	18.57	19.30
18700	18898	QPSK	1	0	0	0	1	0	ECI 8	21.64	22.30
18900	19098	QPSK	1	0	0	0	1	0	ECI 8	21.71	22.30
19100	18902	QPSK	1	0	0	0	1	0	ECI 8	21.66	22.30
18700	18898	QPSK	1	0	0	0	1	0	ECI 10	18.16	18.80
18900	19098	QPSK	1	0	0	0	1	0	ECI 10	18.23	18.80
19100	18902	QPSK	1	0	0	0	1	0	ECI 10	18.12	18.80
18700	18898	QPSK	1	0	0	0	1	0	ECI 13	20.17	20.80
18900	19098	QPSK	1	0	0	0	1	0	ECI 13	20.22	20.80
19100	18902	QPSK	1	0	0	0	1	0	ECI 13	20.17	20.80
18700	18898	QPSK	1	0	0	0	1	0	ECI 15	16.56	17.30
18900	19098	QPSK	1	0	0	0	1	0	ECI 15	16.71	17.30
19100	18902	QPSK	1	0	0	0	1	0	ECI 15	16.69	17.30

CA_7C_Ant 4											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Default	23.15	23.80
21100	21298	QPSK	1	0	0	0	1	0	Default	23.22	23.80
21350	21152	QPSK	1	0	0	0	1	0	Default	23.12	23.80
20850	21048	QPSK	1	0	0	0	1	0	ECI 3	20.80	21.30
21100	21298	QPSK	1	0	0	0	1	0	ECI 3	20.83	21.30
21350	21152	QPSK	1	0	0	0	1	0	ECI 3	20.81	21.30
20850	21048	QPSK	1	0	0	0	1	0	ECI 5	23.15	23.80
21100	21298	QPSK	1	0	0	0	1	0	ECI 5	23.22	23.80
21350	21152	QPSK	1	0	0	0	1	0	ECI 5	23.12	23.80
20850	21048	QPSK	1	0	0	0	1	0	ECI 8	18.65	19.30
21100	21298	QPSK	1	0	0	0	1	0	ECI 8	18.78	19.30
21350	21152	QPSK	1	0	0	0	1	0	ECI 8	18.65	19.30
20850	21048	QPSK	1	0	0	0	1	0	ECI 10	23.15	23.80
21100	21298	QPSK	1	0	0	0	1	0	ECI 10	23.22	23.80
21350	21152	QPSK	1	0	0	0	1	0	ECI 10	23.12	23.80
20850	21048	QPSK	1	0	0	0	1	0	ECI 13	18.65	19.30
21100	21298	QPSK	1	0	0	0	1	0	ECI 13	18.78	19.30
21350	21152	QPSK	1	0	0	0	1	0	ECI 13	18.65	19.30
20850	21048	QPSK	1	0	0	0	1	0	ECI 15	23.15	23.80
21100	21298	QPSK	1	0	0	0	1	0	ECI 15	23.22	23.80
21350	21152	QPSK	1	0	0	0	1	0	ECI 15	23.12	23.80

CA_7C_Ant 3											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Default	23.28	23.80
21100	21298	QPSK	1	0	0	0	1	0	Default	23.35	23.80
21350	21152	QPSK	1	0	0	0	1	0	Default	23.27	23.80
20850	21048	QPSK	1	0	0	0	1	0	ECI 3	21.84	22.30
21100	21298	QPSK	1	0	0	0	1	0	ECI 3	21.87	22.30
21350	21152	QPSK	1	0	0	0	1	0	ECI 3	21.80	22.30
20850	21048	QPSK	1	0	0	0	1	0	ECI 5	15.78	16.30
21100	21298	QPSK	1	0	0	0	1	0	ECI 5	15.81	16.30
21350	21152	QPSK	1	0	0	0	1	0	ECI 5	15.66	16.30
20850	21048	QPSK	1	0	0	0	1	0	ECI 8	19.86	20.30
21100	21298	QPSK	1	0	0	0	1	0	ECI 8	19.88	20.30
21350	21152	QPSK	1	0	0	0	1	0	ECI 8	19.85	20.30
20850	21048	QPSK	1	0	0	0	1	0	ECI 10	15.78	16.30
21100	21298	QPSK	1	0	0	0	1	0	ECI 10	15.81	16.30
21350	21152	QPSK	1	0	0	0	1	0	ECI 10	15.66	16.30
20850	21048	QPSK	1	0	0	0	1	0	ECI 13	19.86	20.30
21100	21298	QPSK	1	0	0	0	1	0	ECI 13	19.88	20.30
21350	21152	QPSK	1	0	0	0	1	0	ECI 13	19.85	20.30
20850	21048	QPSK	1	0	0	0	1	0	ECI 15	13.78	14.30
21100	21298	QPSK	1	0	0	0	1	0	ECI 15	13.88	14.30
21350	21152	QPSK	1	0	0	0	1	0	ECI 15	13.87	14.30

CA 7C Ant 5											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Default	20.04	20.80
21100	21298	QPSK	1	0	0	0	1	0	Default	20.10	20.80
21350	21152	QPSK	1	0	0	0	1	0	Default	20.00	20.80
20850	21048	QPSK	1	0	0	0	1	0	ECI 3	20.04	20.80
21100	21298	QPSK	1	0	0	0	1	0	ECI 3	20.10	20.80
21350	21152	QPSK	1	0	0	0	1	0	ECI 3	20.00	20.80
20850	21048	QPSK	1	0	0	0	1	0	ECI 5	19.49	19.30
21100	21298	QPSK	1	0	0	0	1	0	ECI 5	19.60	19.30
21350	21152	QPSK	1	0	0	0	1	0	ECI 5	19.48	19.30
20850	21048	QPSK	1	0	0	0	1	0	ECI 8	19.03	19.80
21100	21298	QPSK	1	0	0	0	1	0	ECI 8	19.10	19.80
21350	21152	QPSK	1	0	0	0	1	0	ECI 8	18.91	19.80
20850	21048	QPSK	1	0	0	0	1	0	ECI 10	18.05	18.80
21100	21298	QPSK	1	0	0	0	1	0	ECI 10	18.01	18.80
21350	21152	QPSK	1	0	0	0	1	0	ECI 10	17.91	18.80
20850	21048	QPSK	1	0	0	0	1	0	ECI 13	19.03	19.80
21100	21298	QPSK	1	0	0	0	1	0	ECI 13	19.10	19.80
21350	21152	QPSK	1	0	0	0	1	0	ECI 13	18.91	19.80
20850	21048	QPSK	1	0	0	0	1	0	ECI 15	16.54	17.30
21100	21298	QPSK	1	0	0	0	1	0	ECI 15	16.62	17.30
21350	21152	QPSK	1	0	0	0	1	0	ECI 15	16.42	17.30

CA 38C Ant 4											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Default	23.23	23.80
37901	38099	QPSK	1	0	0	0	1	0	Default	23.31	23.80
38150	37952	QPSK	1	0	0	0	1	0	Default	23.25	23.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 3	22.20	22.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 3	22.33	22.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 3	22.26	22.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 5	23.23	23.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 5	23.31	23.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 5	23.25	23.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 8	20.60	21.30
37901	38099	QPSK	1	0	0	0	1	0	ECI 8	20.72	21.30
38150	37952	QPSK	1	0	0	0	1	0	ECI 8	20.60	21.30
37850	38048	QPSK	1	0	0	0	1	0	ECI 10	23.23	23.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 10	23.31	23.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 10	23.25	23.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 13	20.23	20.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 13	20.28	20.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 13	20.18	20.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 15	23.23	23.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 15	23.31	23.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 15	23.25	23.80

CA 38C Ant 3											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Default	23.43	23.80
37901	38099	QPSK	1	0	0	0	1	0	Default	23.49	23.80
38150	37952	QPSK	1	0	0	0	1	0	Default	23.34	23.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 3	23.43	23.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 3	23.49	23.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 3	23.34	23.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 5	16.69	17.30
37901	38099	QPSK	1	0	0	0	1	0	ECI 5	16.82	17.30
38150	37952	QPSK	1	0	0	0	1	0	ECI 5	16.76	17.30
37850	38048	QPSK	1	0	0	0	1	0	ECI 8	22.33	22.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 8	22.38	22.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 8	22.32	22.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 10	16.32	16.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 10	16.33	16.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 10	16.20	16.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 13	22.33	22.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 13	22.38	22.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 13	22.32	22.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 15	14.74	15.30
37901	38099	QPSK	1	0	0	0	1	0	ECI 15	14.81	15.30
38150	37952	QPSK	1	0	0	0	1	0	ECI 15	14.79	15.30

CA 38C Ant 5											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Default	20.10	20.80
37901	38099	QPSK	1	0	0	0	1	0	Default	20.24	20.80
38150	37952	QPSK	1	0	0	0	1	0	Default	20.10	20.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 3	20.10	20.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 3	20.24	20.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 3	20.10	20.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 5	20.10	20.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 5	20.24	20.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 5	20.10	20.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 8	20.10	20.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 8	20.24	20.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 8	20.10	20.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 10	20.10	20.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 10	20.24	20.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 10	20.10	20.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 13	20.10	20.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 13	20.24	20.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 13	20.10	20.80
37850	38048	QPSK	1	0	0	0	1	0	ECI 15	19.13	19.80
37901	38099	QPSK	1	0	0	0	1	0	ECI 15	19.16	19.80
38150	37952	QPSK	1	0	0	0	1	0	ECI 15	19.10	19.80

CA 41C Ant 4											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	0	0	0	1	0	Default	23.54	23.80
40185	40383	QPSK	1	0	0	0	1	0	Default	23.42	23.80
40620	40818	QPSK	1	0	0	0	1	0	Default	23.41	23.80
41055	41253	QPSK	1	0	0	0	1	0	Default	23.44	23.80
41490	41292	QPSK	1	0	0	0	1	0	Default	23.48	23.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 3	23.54	23.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 3	23.42	23.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 3	23.41	23.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 3	23.44	23.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 3	23.48	23.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 5	23.54	23.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 5	23.42	23.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 5	23.41	23.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 5	23.44	23.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 5	23.48	23.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 8	23.54	23.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 8	23.42	23.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 8	23.41	23.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 8	23.44	23.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 8	23.48	23.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 10	23.54	23.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 10	23.42	23.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 10	23.41	23.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 10	23.44	23.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 10	23.48	23.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 13	23.54	23.70
40185	40383	QPSK	1	0	0	0	1	0	ECI 13	23.42	23.70
40620	40818	QPSK	1	0	0	0	1	0	ECI 13	23.41	23.70
41055	41253	QPSK	1	0	0	0	1	0	ECI 13	23.44	23.70
41490	41292	QPSK	1	0	0	0	1	0	ECI 13	23.48	23.70
39750	39948	QPSK	1	0	0	0	1	0	ECI 15	23.54	23.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 15	23.42	23.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 15	23.41	23.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 15	23.44	23.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 15	23.48	23.80

CA 41C Ant 3											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	0	0	0	1	0	Default	23.35	23.80
40185	40383	QPSK	1	0	0	0	1	0	Default	23.46	23.80
40620	40818	QPSK	1	0	0	0	1	0	Default	23.41	23.80
41055	41253	QPSK	1	0	0	0	1	0	Default	23.44	23.80
41490	41292	QPSK	1	0	0	0	1	0	Default	23.43	23.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 3	23.35	23.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 3	23.46	23.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 3	23.41	23.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 3	23.44	23.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 3	23.43	23.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 5	19.38	19.70
40185	40383	QPSK	1	0	0	0	1	0	ECI 5	19.48	19.70
40620	40818	QPSK	1	0	0	0	1	0	ECI 5	19.47	19.70
41055	41253	QPSK	1	0	0	0	1	0	ECI 5	19.47	19.70
41490	41292	QPSK	1	0	0	0	1	0	ECI 5	19.46	19.70
39750	39948	QPSK	1	0	0	0	1	0	ECI 8	23.35	23.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 8	23.46	23.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 8	23.41	23.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 8	23.44	23.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 8	23.43	23.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 10	18.94	19.20
40185	40383	QPSK	1	0	0	0	1	0	ECI 10	19.01	19.20
40620	40818	QPSK	1	0	0	0	1	0	ECI 10	18.98	19.20
41055	41253	QPSK	1	0	0	0	1	0	ECI 10	18.96	19.20
41490	41292	QPSK	1	0	0	0	1	0	ECI 10	18.92	19.20
39750	39948	QPSK	1	0	0	0	1	0	ECI 13	23.35	23.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 13	23.46	23.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 13	23.41	23.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 13	23.44	23.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 13	23.43	23.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 15	18.46	17.70
40185	40383	QPSK	1	0	0	0	1	0	ECI 15	18.43	17.70
40620	40818	QPSK	1	0	0	0	1	0	ECI 15	18.46	17.70
41055	41253	QPSK	1	0	0	0	1	0	ECI 15	18.57	17.70
41490	41292	QPSK	1	0	0	0	1	0	ECI 15	18.44	17.70

CA 41C_Ant 5											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	0	0	0	1	0	Default	20.30	20.80
40185	40383	QPSK	1	0	0	0	1	0	Default	20.27	20.80
40620	40818	QPSK	1	0	0	0	1	0	Default	20.33	20.80
41055	41253	QPSK	1	0	0	0	1	0	Default	20.29	20.80
41490	41292	QPSK	1	0	0	0	1	0	Default	20.24	20.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 3	20.30	20.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 3	20.27	20.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 3	20.33	20.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 3	20.29	20.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 3	20.24	20.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 5	20.30	20.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 5	20.27	20.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 5	20.33	20.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 5	20.29	20.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 5	20.24	20.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 8	20.30	20.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 8	20.27	20.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 8	20.33	20.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 8	20.29	20.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 8	20.24	20.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 10	20.30	20.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 10	20.27	20.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 10	20.33	20.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 10	20.29	20.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 10	20.24	20.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 13	20.30	20.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 13	20.27	20.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 13	20.33	20.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 13	20.29	20.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 13	20.24	20.80
39750	39948	QPSK	1	0	0	0	1	0	ECI 15	20.30	20.80
40185	40383	QPSK	1	0	0	0	1	0	ECI 15	20.27	20.80
40620	40818	QPSK	1	0	0	0	1	0	ECI 15	20.33	20.80
41055	41253	QPSK	1	0	0	0	1	0	ECI 15	20.29	20.80
41490	41292	QPSK	1	0	0	0	1	0	ECI 15	20.24	20.80