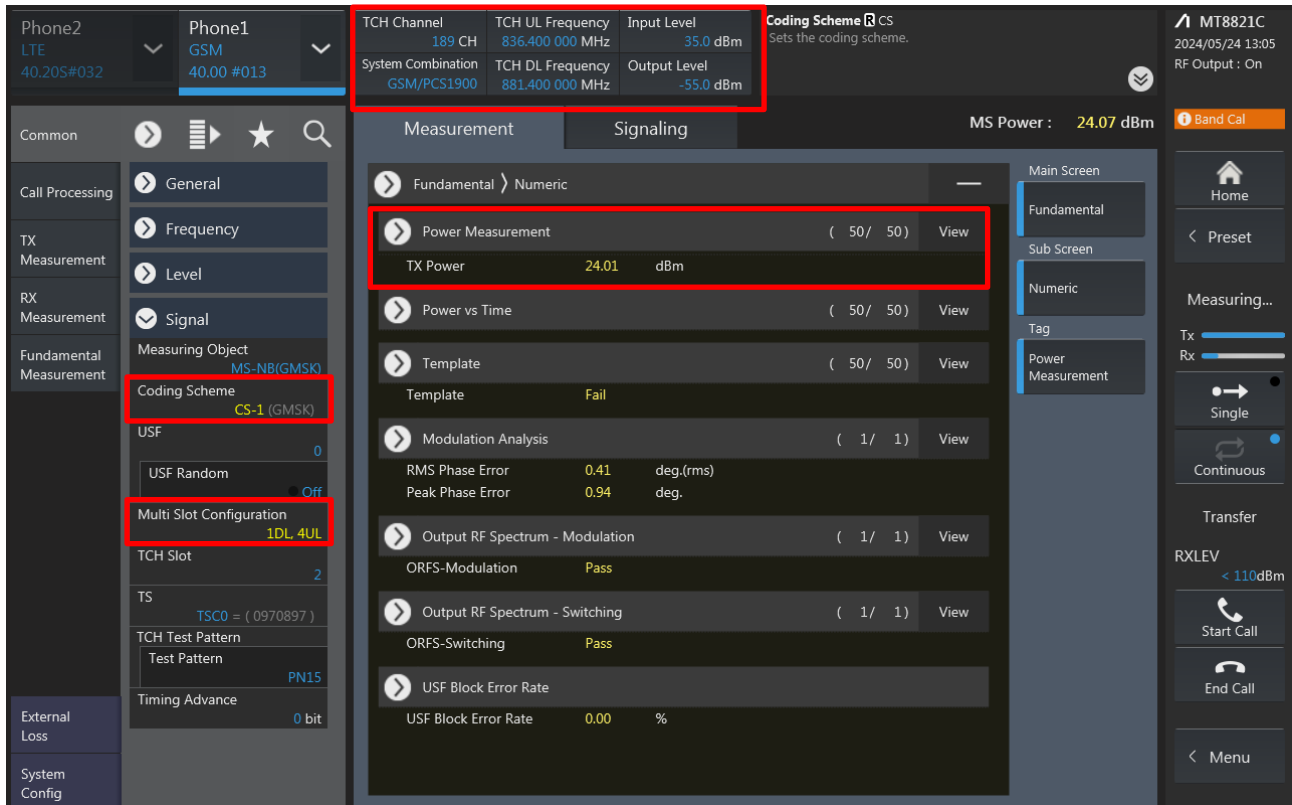


Power measurement connection diagram:

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>



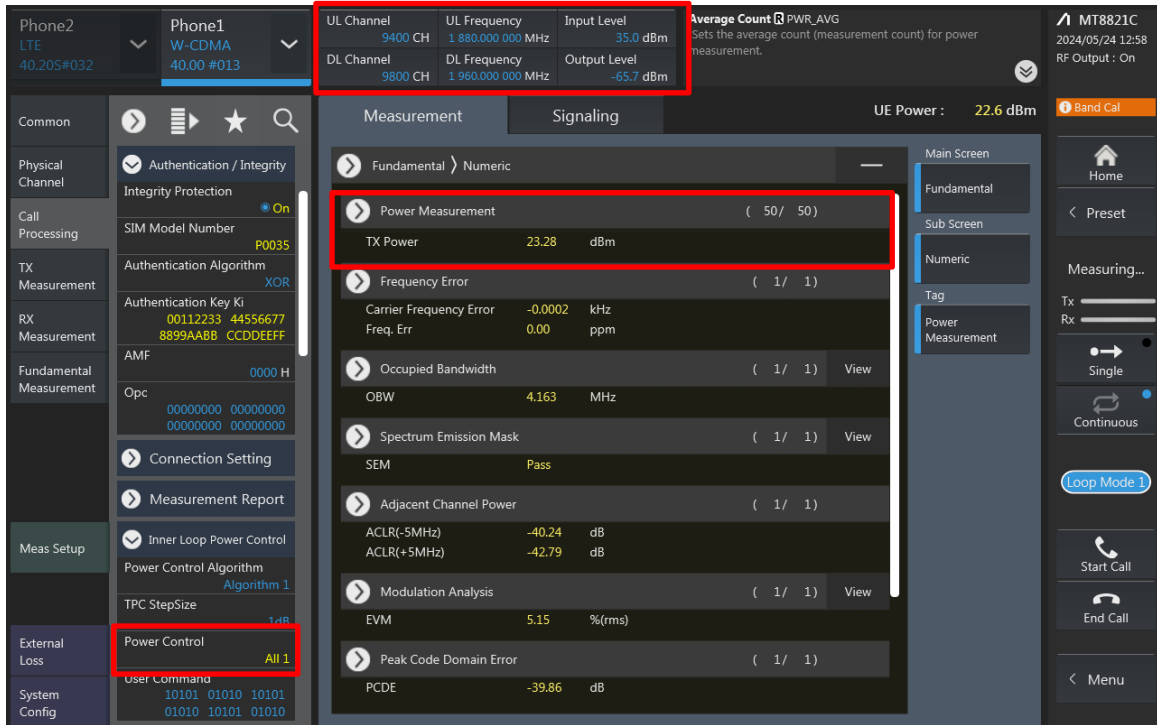
The screenshot displays the configuration and measurement results for a GSM call. The interface is divided into several sections:

- Top Bar:** Shows 'Phone1 GSM' and 'Phone2 LTE'. 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 (Configuration):** Lists various settings including 'Coding Scheme' (CS-1 (GMSK)), 'Multi Slot Configuration' (1DL, 4UL), and 'TCH Slot' (2).
- Main Area (Measurement):** Shows 'Fundamental' and 'Power Measurement' results. The 'Power Measurement' section is highlighted with a red box, showing:

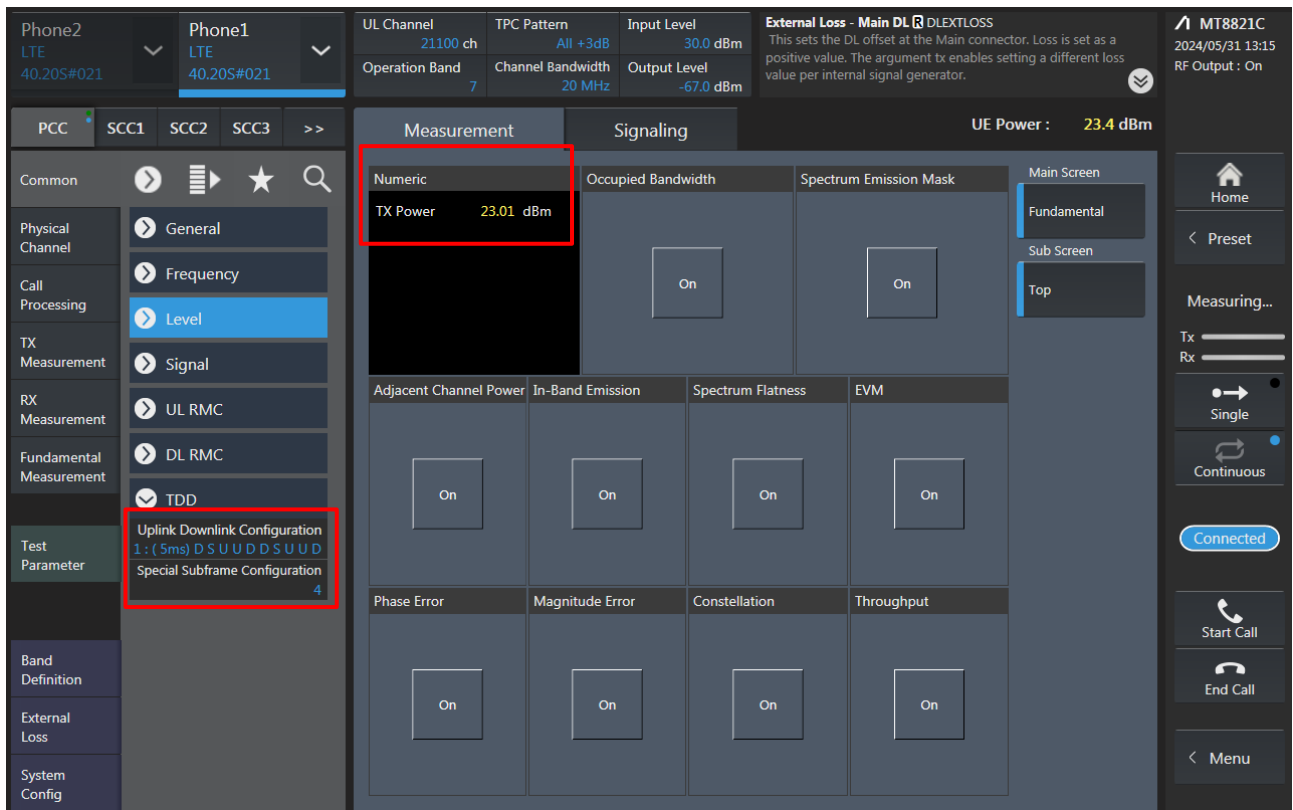
Power Measurement	(50 / 50)	View
TX Power	24.01	dBm
- Right Panel (Controls):** Includes a 'Main Screen' menu, a 'Band Cal' button, and call control buttons like 'Start Call' and 'End Call'.

<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', 'DL Frequency 1.960.000 000 MHz', and 'Output Level -65.7 dBm'. The 'External Loss' is set to 'All 1'. The 'UE Power' is 22.6 dBm. The interface also includes a 'Meas Setup' section with 'Authentication / Integrity Integrity Protection' and 'Inner Loop Power Control' options.

<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' is set to 'DLEXTLOSS'. The 'UE Power' is 23.4 dBm. The interface also includes a 'Test Parameter' section with 'Uplink Downlink Configuration 1: (5ms) D S U U D D S U U D' and 'Special Subframe Configuration 4'. The interface also includes a 'Meas Setup' section with 'General', 'Frequency', 'Level', 'Signal', 'UL RMC', 'DL RMC', and 'TDD' options.



<LTE TDD Power class 3>

The screenshot displays the configuration and measurement interface for LTE TDD Power class 3. The interface is divided into several sections:

- Top Bar:** Shows device information (Phone2, Phone1), channel details (UL Channel 40620 ch, Operation Band 41), and power levels (Input Level 30.0 dBm, Output Level -54.2 dBm). It also includes the TDD - Special Subframe Configuration (TDDSSPCONF) and the device model (MT8821C).
- Left Panel:** A navigation menu with categories like Common, Physical Channel, Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, Test Parameter, Band Definition, External Loss, and System Config. The 'TDD' option is selected.
- Measurement Section:** A table of measurement parameters with 'On' buttons. The 'TX Power' is highlighted with a red box and shows a value of 23.19 dBm.
- Signaling Section:** A table of signaling parameters, all with 'On' buttons.
- Right Panel:** A vertical toolbar with buttons for Home, Preset, Measuring..., Tx/Rx levels, Single, Continuous, Connected, Start Call, End Call, and Menu.

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

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

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)

Test Parameter: Number of RB: 1, Starting RB: 0, MCS Index: 5 QPSK 5 72 8

<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

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

UE Power: 26.0 dBm

Measurement | Signaling

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

Occupied Bandwidth: OBW 18.787 MHz

Adjacent Channel Power

Modulation: PI/2 BPSK

EVM, Phase Error, Magnitude Error, Constellation: On



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

OBW 18.787 MHz

Adjacent Channel Power

In-Band Emission

Spectrum Flatness

EVM

Phase Error

Magnitude Error

Constellation

Common

- Level / Freq Cell
- Level / Freq Routing / ARB
- Physical Channel
- Call Processing
- Tx Measurement
- Rx Measurement
- OTA Position
- Fundamental Measurement
- Test Parameter
- External Loss
- System Config

DL Subcarrier Spacing(data) 15kHz

UL Subcarrier Spacing(data) 15kHz

DL Channel Bandwidth 20MHz

UL Channel Bandwidth 20MHz

DL Number of Additional BWP 0

UL Number of Additional BWP 0

BWP1 25 0 25 0

BWP2 25 0 25 0

BWP3 25 0 25 0

BWP4 25 0 25 0

BWP Switch Delay Type Type2

BWP Configuration Option Option2

Active DL BWP 0

Active UL BWP 0

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

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

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

Power Measurement - Count 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 : 25.9 dBm

Measurement

Numeric	
Tx Power	25.84 dBm
OBW	18.787 MHz
ACLR(-)	-53.57 dB
ACLR(+)	-55.98 dB

Occupied Bandwidth

OBW 18.787 MHz

Adjacent Channel Power

In-Band Emission

Spectrum Flatness

EVM

Phase Error

Magnitude Error

Constellation

Common

- Level / Freq Cell
- Level / Freq Routing / ARB
- Physical Channel
- Call Processing
- Tx Measurement
- Rx Measurement
- OTA Position
- Fundamental Measurement
- Test Parameter
- External Loss
- System Config

Frequency

Offset To Carrier 504

PointA Channel 116048

PointA Frequency 580.240 000 MHz

Center Channel 136100

Center Frequency 680.500 000 MHz

7.5 kHz Frequency Shift Off

DL

Offset To Carrier 102

PointA Channel 121320

PointA Frequency 606.600 000 MHz

Center Channel 126900

Center Frequency 634.500 000 MHz

Absolute Frequency SSB 125550

SSB Frequency 627.750 000 MHz

Channel Setting Mode Lowest GSCN

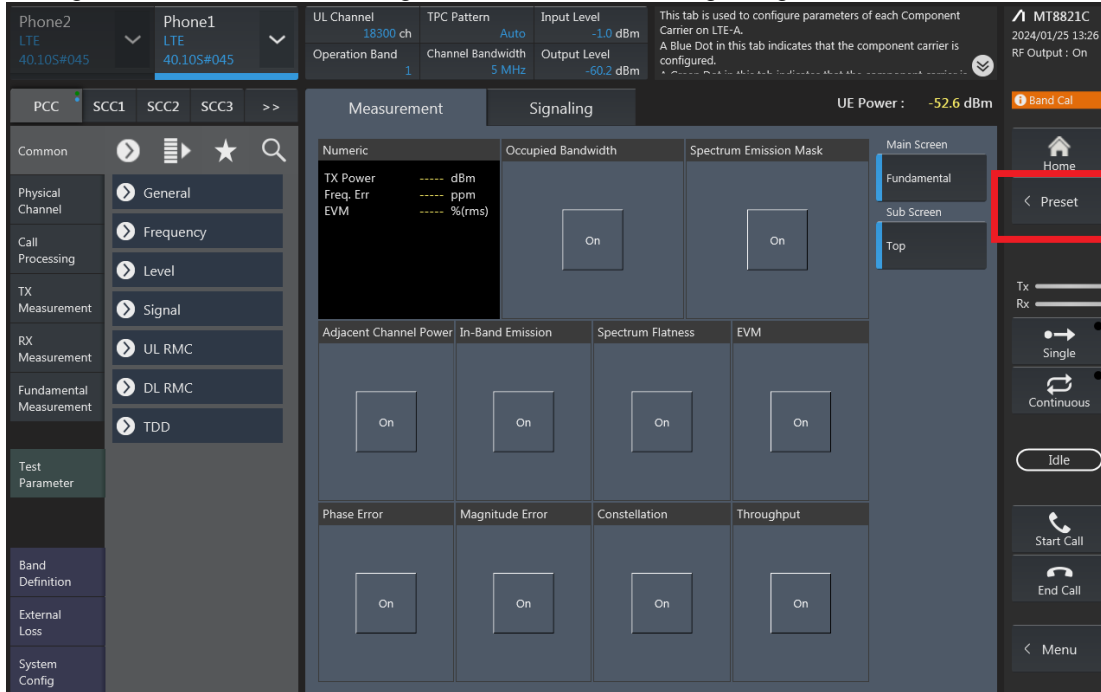
Operation Band 71

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

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

LTE Uplink and Downlink Carrier Aggregation configurations:

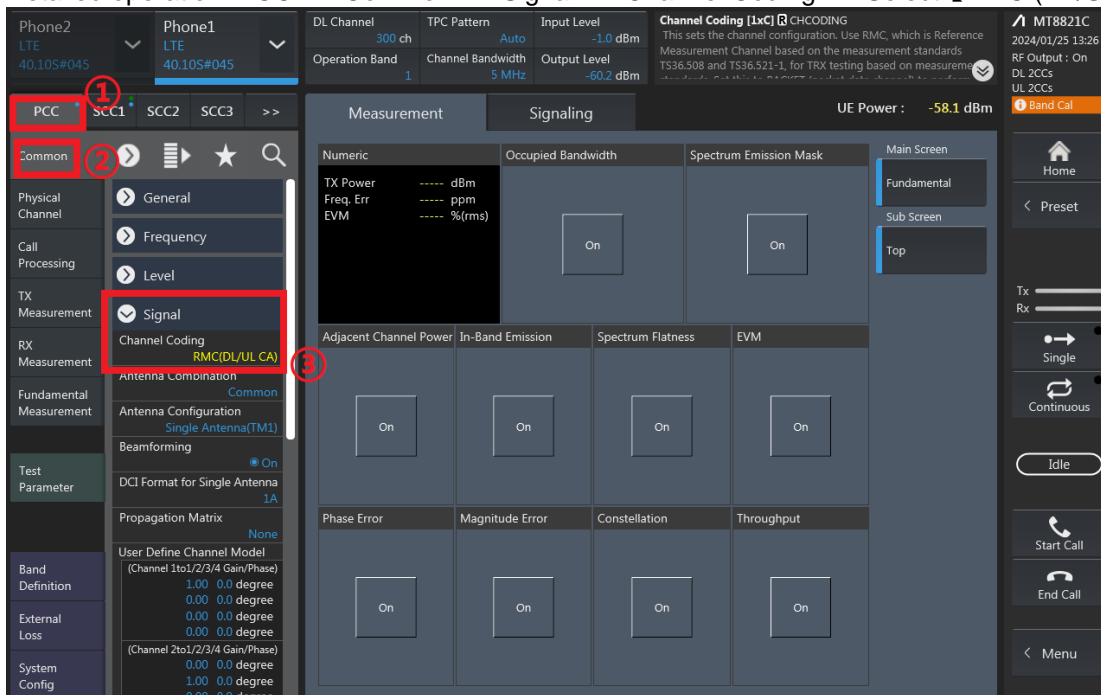
1. Change the Scenario in the Configuration of Phone1 LTE Signaling and Preset.



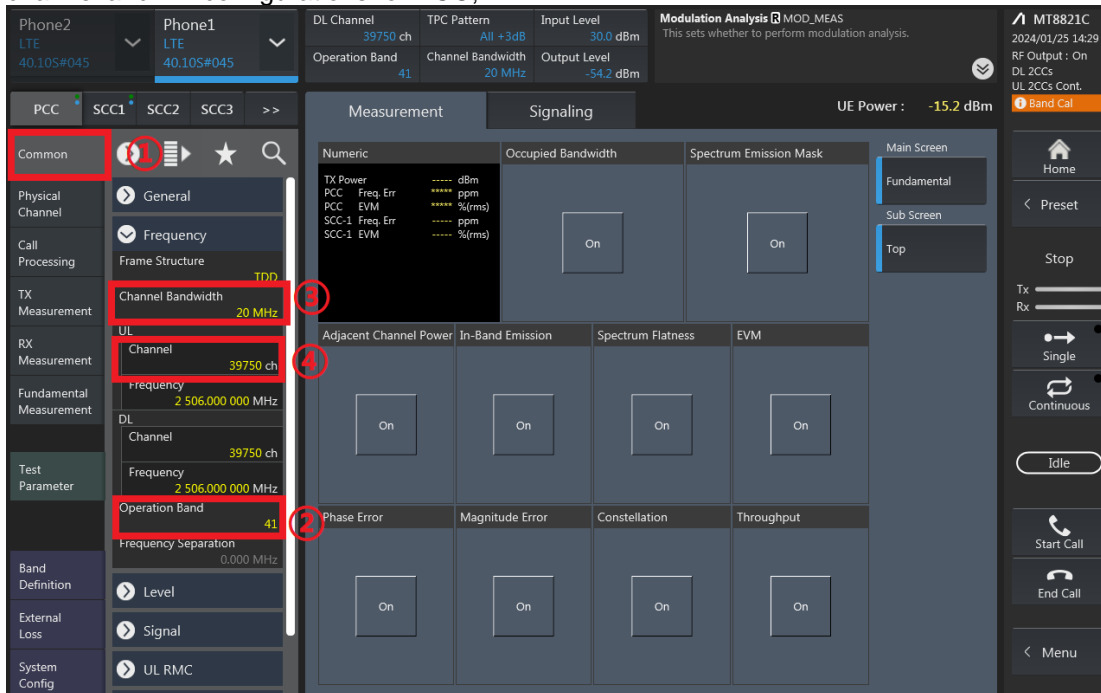
2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.

For example, Uplink Carrier Aggregation:

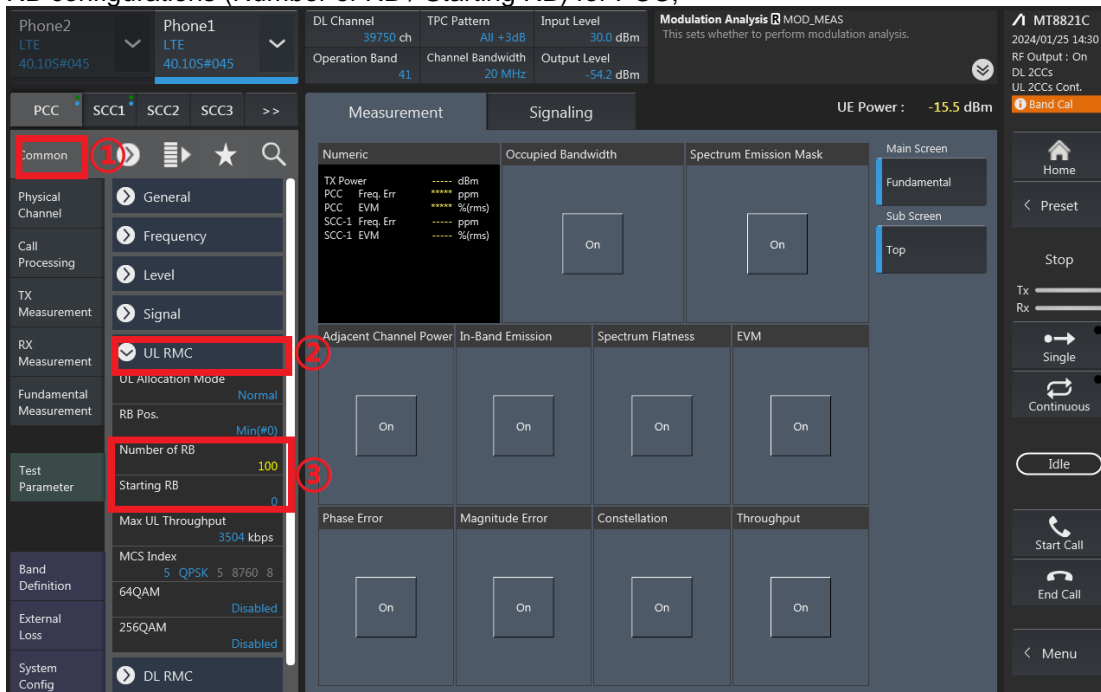
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



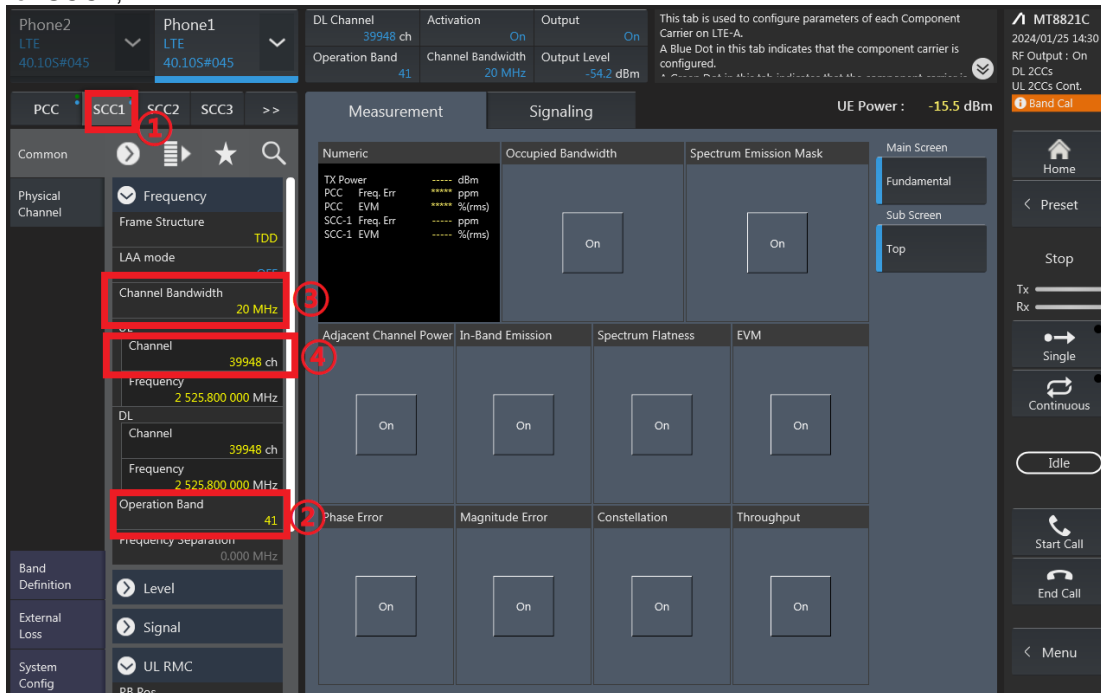
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



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

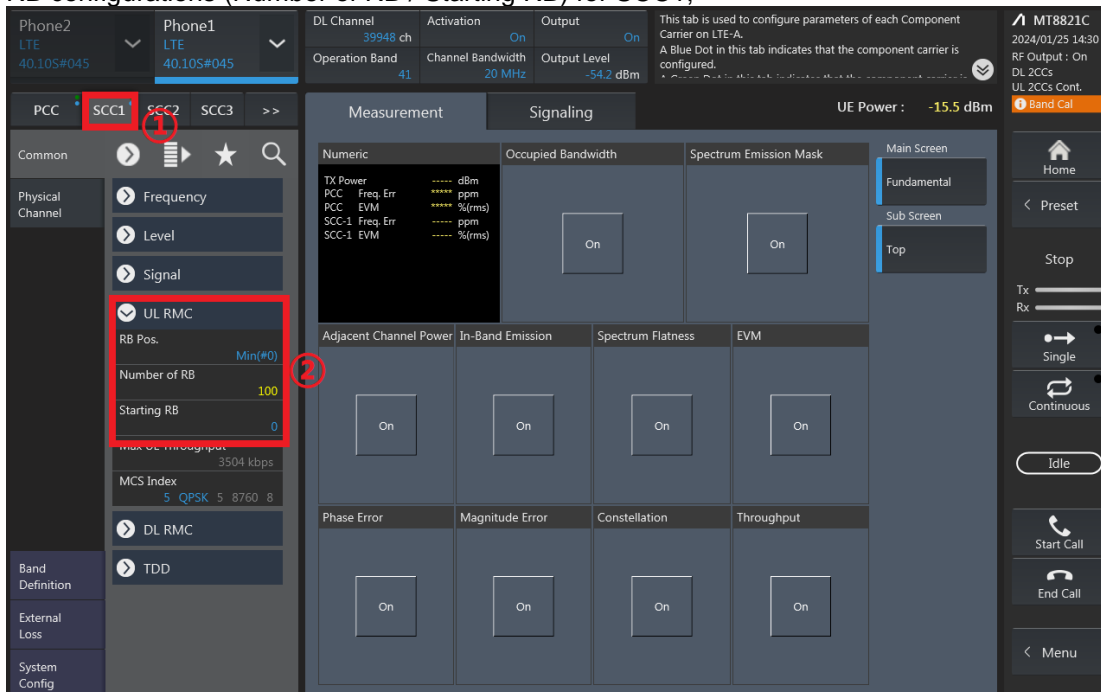


4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



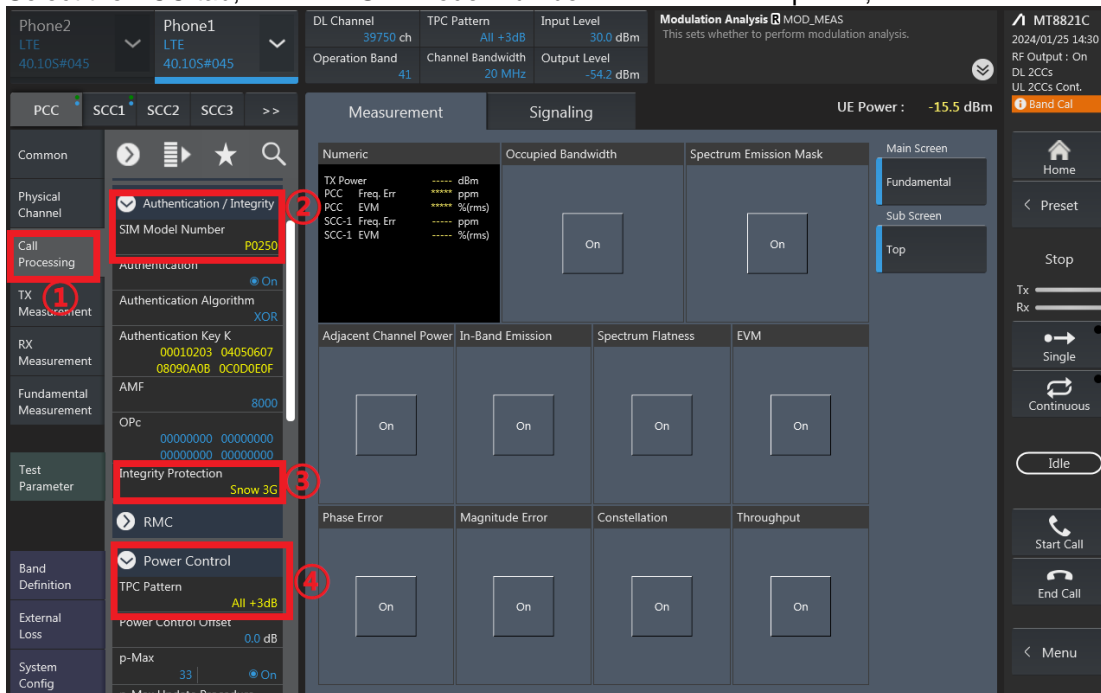
The screenshot shows the SCC1 configuration screen. On the left, the 'Physical Channel' section is expanded to show 'Channel Bandwidth' (20 MHz), 'Channel' (39948 ch), 'Frequency' (2 525.800 000 MHz), 'DL Channel' (39948 ch), and 'Operation Band' (41). Red circles with numbers 1, 2, 3, and 4 highlight the SCC1 tab, Operation Band, Channel Bandwidth, and Channel respectively.

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



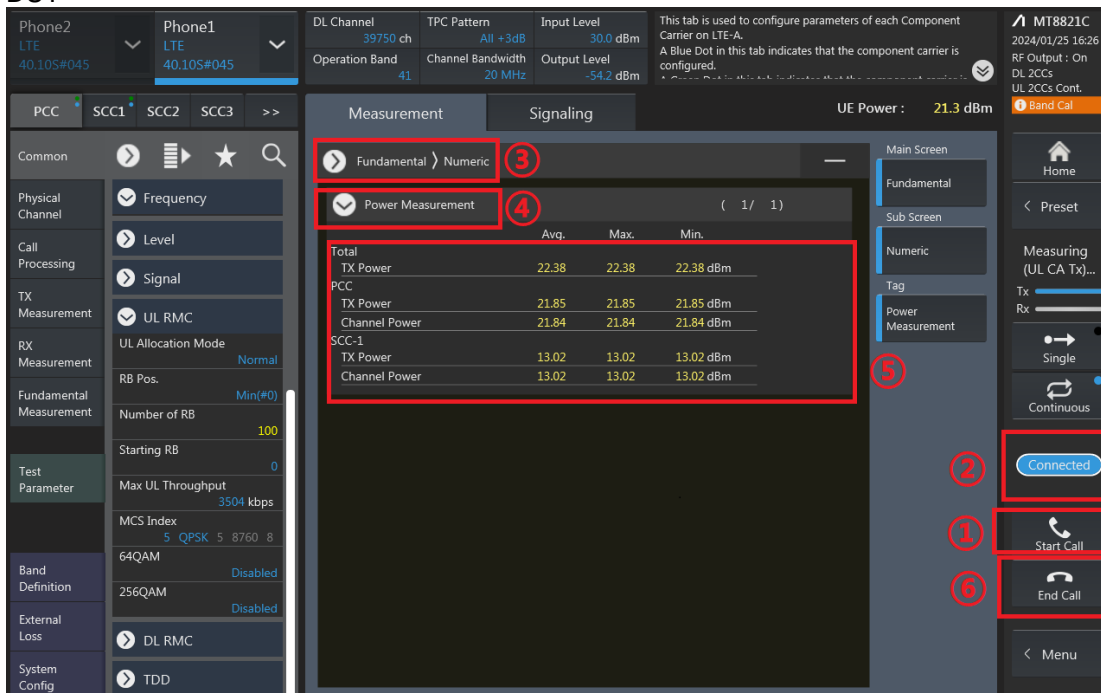
This screenshot shows the 'UL RMC' configuration section expanded. The 'Number of RB' is set to 100 and 'Starting RB' is set to 0. A red circle with the number 2 highlights the 'Number of RB' field.

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



The screenshot shows the PCC configuration screen. The 'Call Processing' tab is selected. The 'Authentication / Integrity' section is highlighted with a red box and labeled '1'. The 'SIM Model Number' is set to 'P0250'. The 'Power Control' section is highlighted with a red box and labeled '4'. The 'TPC Pattern' is set to 'All +3dB'. The 'Integrity Protection' is set to 'Snow 3G' and labeled '3'. The 'UE Power' is set to '-15.5 dBm'.

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



The screenshot shows the Power Measurement screen. The 'Power Measurement' section is highlighted with a red box and labeled '4'. The 'Connected' button is highlighted with a red box and labeled '2'. The 'Start Call' and 'End Call' buttons are also highlighted with red boxes and labeled '1' and '6' respectively. The 'UE Power' is set to '21.3 dBm'.

	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

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



UL CA
Full&Default Power Mode

CA_7C 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		
20850	21048	QPSK	1	99	1	0	22.10	24.00
21100	21298	QPSK	1	99	1	0	22.11	24.00
21350	21152	QPSK	1	0	1	99	22.06	24.00

CA_38C 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		
37850	38048	QPSK	1	99	1	0	22.36	24.00
37901	38099	QPSK	1	99	1	0	22.45	24.00
38150	37952	QPSK	1	0	1	99	22.27	24.00

CA_41C 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	22.4	24.00
40185	40383	QPSK	1	99	1	0	22.34	24.00
40620	40818	QPSK	1	99	1	0	22.45	24.00
41055	41253	QPSK	1	99	1	0	22.38	24.00
41490	41292	QPSK	1	0	1	99	22.39	24.00

CA_7C 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		
20850	21048	QPSK	1	99	1	0	21.37	23.00
21100	21298	QPSK	1	99	1	0	21.51	23.00
21350	21152	QPSK	1	0	1	99	21.48	23.00

CA_38C 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		
37850	38048	QPSK	1	99	1	0	21.32	23.00
37901	38099	QPSK	1	99	1	0	21.48	23.00
38150	37952	QPSK	1	0	1	99	21.35	23.00

CA_41C 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	21.47	23.00
40185	40383	QPSK	1	99	1	0	21.49	23.00
40620	40818	QPSK	1	99	1	0	21.58	23.00
41055	41253	QPSK	1	99	1	0	21.48	23.00
41490	41292	QPSK	1	0	1	99	21.47	23.00



Reduced Power Mode for ECI 2

CA_7C 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		
20850	21048	QPSK	1	99	1	0	22.10	24.00
21100	21298	QPSK	1	99	1	0	22.11	24.00
21350	21152	QPSK	1	0	1	99	22.06	24.00

CA_38C 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		
37850	38048	QPSK	1	99	1	0	22.36	24.00
37901	38099	QPSK	1	99	1	0	22.45	24.00
38150	37952	QPSK	1	0	1	99	22.27	24.00

CA_41C 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	22.4	24.00
40185	40383	QPSK	1	99	1	0	22.34	24.00
40620	40818	QPSK	1	99	1	0	22.45	24.00
41055	41253	QPSK	1	99	1	0	22.38	24.00
41490	41292	QPSK	1	0	1	99	22.39	24.00

CA_7C 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		
20850	21048	QPSK	1	99	1	0	17.85	18.90
21100	21298	QPSK	1	99	1	0	17.94	18.90
21350	21152	QPSK	1	0	1	99	17.80	18.90

CA_38C 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		
37850	38048	QPSK	1	99	1	0	18.36	19.70
37901	38099	QPSK	1	99	1	0	18.5	19.70
38150	37952	QPSK	1	0	1	99	18.25	19.70

CA_41C 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	18.49	19.70
40185	40383	QPSK	1	99	1	0	18.41	19.70
40620	40818	QPSK	1	99	1	0	18.53	19.70
41055	41253	QPSK	1	99	1	0	18.45	19.70
41490	41292	QPSK	1	0	1	99	18.36	19.70



Reduced Power Mode for ECI 3

CA_7C 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		
20850	21048	QPSK	1	99	1	0	20.51	21.60
21100	21298	QPSK	1	99	1	0	20.63	21.60
21350	21152	QPSK	1	0	1	99	20.52	21.60

CA_38C 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		
37850	38048	QPSK	1	99	1	0	21.33	22.80
37901	38099	QPSK	1	99	1	0	21.34	22.80
38150	37952	QPSK	1	0	1	99	21.26	22.80

CA_41C 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	21.34	22.80
40185	40383	QPSK	1	99	1	0	21.33	22.80
40620	40818	QPSK	1	99	1	0	21.44	22.80
41055	41253	QPSK	1	99	1	0	21.44	22.80
41490	41292	QPSK	1	0	1	99	21.34	22.80

CA_7C 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		
20850	21048	QPSK	1	99	1	0	16.82	18.10
21100	21298	QPSK	1	99	1	0	17.05	18.10
21350	21152	QPSK	1	0	1	99	16.97	18.10

CA_38C 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		
37850	38048	QPSK	1	99	1	0	17.93	19.30
37901	38099	QPSK	1	99	1	0	18.13	19.30
38150	37952	QPSK	1	0	1	99	17.94	19.30

CA_41C 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	18.06	19.30
40185	40383	QPSK	1	99	1	0	18.08	19.30
40620	40818	QPSK	1	99	1	0	18.12	19.30
41055	41253	QPSK	1	99	1	0	18.08	19.30
41490	41292	QPSK	1	0	1	99	18.03	19.30



Reduced Power Mode for ECI 6

CA_7C 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		
20850	21048	QPSK	1	99	1	0	21.00	22.10
21100	21298	QPSK	1	99	1	0	21.06	22.10
21350	21152	QPSK	1	0	1	99	20.96	22.10

CA_38C 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		
37850	38048	QPSK	1	99	1	0	20.85	22.30
37901	38099	QPSK	1	99	1	0	20.98	22.30
38150	37952	QPSK	1	0	1	99	20.8	22.30

CA_41C 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	20.81	22.30
40185	40383	QPSK	1	99	1	0	20.86	22.30
40620	40818	QPSK	1	99	1	0	20.92	22.30
41055	41253	QPSK	1	99	1	0	20.87	22.30
41490	41292	QPSK	1	0	1	99	20.85	22.30

CA_7C 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		
20850	21048	QPSK	1	99	1	0	17.82	18.60
21100	21298	QPSK	1	99	1	0	17.8	18.60
21350	21152	QPSK	1	0	1	99	17.70	18.60

CA_38C 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		
37850	38048	QPSK	1	99	1	0	18.57	20.10
37901	38099	QPSK	1	99	1	0	18.71	20.10
38150	37952	QPSK	1	0	1	99	18.73	20.10

CA_41C 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	18.86	20.10
40185	40383	QPSK	1	99	1	0	18.81	20.10
40620	40818	QPSK	1	99	1	0	18.97	20.10
41055	41253	QPSK	1	99	1	0	18.86	20.10
41490	41292	QPSK	1	0	1	99	18.84	20.10



Reduced Power Mode for ECI 7

CA_7C 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		
20850	21048	QPSK	1	99	1	0	18.50	19.80
21100	21298	QPSK	1	99	1	0	18.52	19.80
21350	21152	QPSK	1	0	1	99	18.49	19.80

CA_38C 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		
37850	38048	QPSK	1	99	1	0	20.28	21.70
37901	38099	QPSK	1	99	1	0	20.47	21.70
38150	37952	QPSK	1	0	1	99	20.4	21.70

CA_41C 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	20.42	21.70
40185	40383	QPSK	1	99	1	0	20.43	21.70
40620	40818	QPSK	1	99	1	0	20.49	21.70
41055	41253	QPSK	1	99	1	0	20.46	21.70
41490	41292	QPSK	1	0	1	99	20.46	21.70

CA_7C 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		
20850	21048	QPSK	1	99	1	0	15.37	16.50
21100	21298	QPSK	1	99	1	0	15.51	16.50
21350	21152	QPSK	1	0	1	99	15.45	16.50

CA_38C 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		
37850	38048	QPSK	1	99	1	0	16.66	18.00
37901	38099	QPSK	1	99	1	0	16.84	18.00
38150	37952	QPSK	1	0	1	99	16.69	18.00

CA_41C 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	16.76	18.00
40185	40383	QPSK	1	99	1	0	16.76	18.00
40620	40818	QPSK	1	99	1	0	16.88	18.00
41055	41253	QPSK	1	99	1	0	16.82	18.00
41490	41292	QPSK	1	0	1	99	16.83	18.00



DL CA Power

2CA DL

CA List	PCC									SCC				Power		
	LTE Band	BW Ant	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)
CA_2A-38A	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	22.21	22.30
	Band 2	Ant4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	21.45	21.55
	Band 38	Ant1	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.41	22.47
	Band 38	Ant4	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.33	21.55
CA_39C	Band 38	Ant1	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	22.41	22.47
	Band 38	Ant4	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	21.33	21.55
CA_41A-42A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.48	22.49
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	21.61	21.62
	Band 42	Ant3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.22	22.39
CA_41C	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.6	40818	4x4MIMO	22.48	22.49
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.6	40818	4x4MIMO	21.61	21.62
CA_66B	Band 66	Ant1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	22.28	22.42
	Band 66	Ant4	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	21.85	21.81
CA_66C	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2184.6	66984	4x4MIMO	22.28	22.42
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2184.6	66984	4x4MIMO	21.85	21.81

