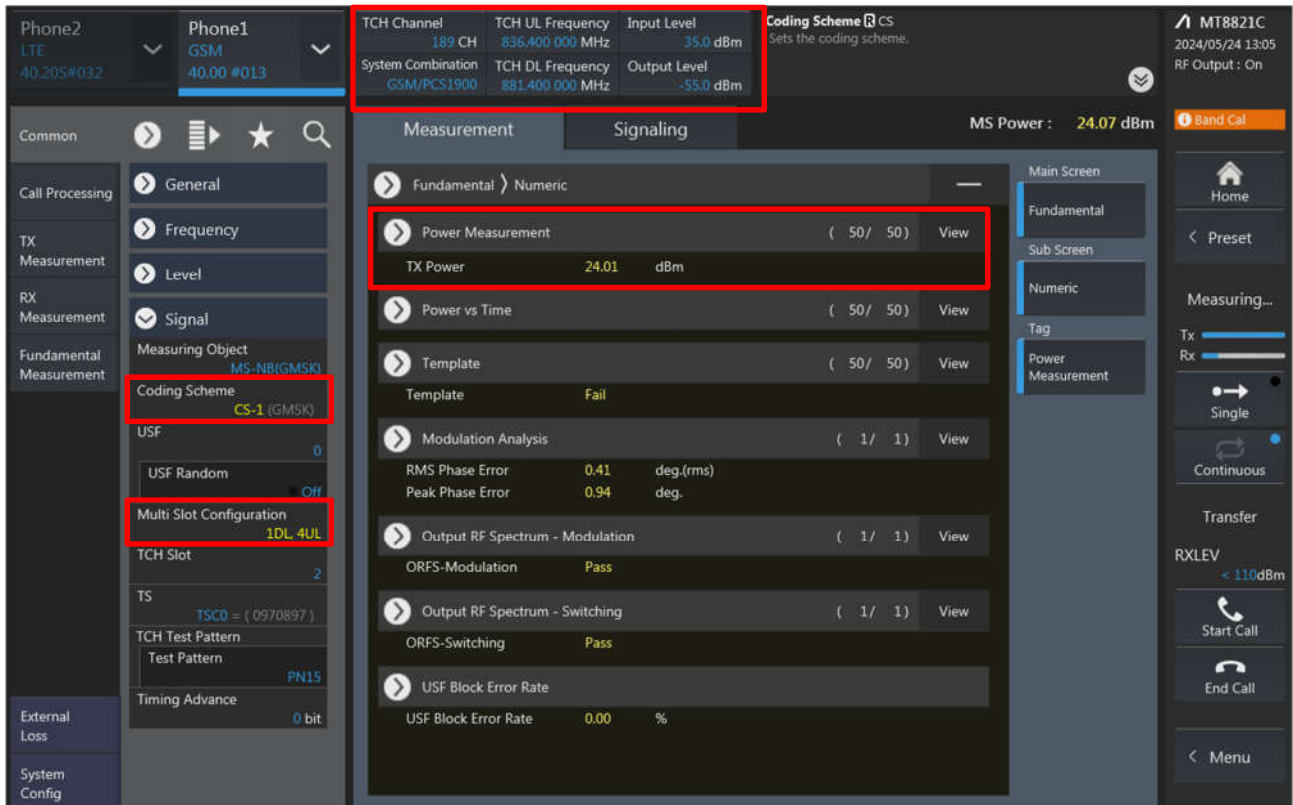


Power measurement connection diagram:

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>



Parameter	Value
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
Coding Scheme	CS
TX Power	24.01 dBm
RMS Phase Error	0.41 deg.(rms)
Peak Phase Error	0.94 deg.
USF Block Error Rate	0.00 %

<WCDMA>

The screenshot displays the WCDMA measurement interface. At the top, configuration parameters are shown: 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. The UE Power is 22.6 dBm. The 'Measurement' section shows 'Power Measurement' (TX Power: 23.28 dBm) and 'Frequency Error' (Carrier Frequency Error: -0.0002 kHz, Freq. Err: 0.00 ppm). Other measurements include Occupied Bandwidth (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 %), and Peak Code Domain Error (PCDE: -39.86 dB). The 'External Loss' is set to All 1.

<LTE>

The screenshot displays the LTE measurement interface. Configuration 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 'Measurement' section shows 'TX Power' (23.01 dBm). The 'Test Parameter' section shows 'Uplink Downlink Configuration 1: (5ms) D S U U D D S U U D' and 'Special Subframe Configuration 4'. The interface also shows various measurement options like Occupied Bandwidth, Spectrum Emission Mask, Adjacent Channel Power, In-Band Emission, Spectrum Flatness, EVM, Phase Error, Magnitude Error, Constellation, and Throughput.

<LTE TDD Power class 3>

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

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

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

UE Power : 23.5 dBm

Measurement | Signaling

Numeric | Occupied Bandwidth | Spectrum Emission Mask

TX Power 23.19 dBm

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

Adjacent Channel Power | In-Band Emission | Spectrum Flatness | EVM

Phase Error | Magnitude Error | Constellation | Throughput

<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 TDDSSFCONF | 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 | Occupied Bandwidth | Spectrum Emission Mask

TX Power 26.16 dBm

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

Adjacent Channel Power | In-Band Emission | Spectrum Flatness | EVM

Phase Error | Magnitude Error | Constellation | Throughput

UL Channel Configuration:

- 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.

Measurement Results:

- Power Measurement (50/50): TX Power 25.12 dBm
- Modulation Analysis (1/1): Freq. Err 0.00 ppm, EVM 1.35 % (rms)

Test Parameters:

- Number of RB: 1
- Starting RB: 0
- MCS Index: 5 QPSK 5 72 8

<5G NR FR1>

DL Center Channel Configuration:

- 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

Measurement Results:

- 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: [Graph]
- In-Band Emission: [Graph]
- Spectrum Flatness: [Graph]
- EVM: [Graph]
- Phase Error: [Graph]
- Magnitude Error: [Graph]
- Constellation: [Graph]

Test Parameters:

- Waveform: DFT-S-OFDM
- Number of RB: 1
- Starting RB: 1
- Modulation: Pi/2 BPSK



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

Power Measurement - Count PWR_AVG

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

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

Spectrum Emission Mask

On

Adjacent Channel Power

In-Band Emission

On

Spectrum Flatness

On

EVM

On

Phase Error

On

Magnitude Error

On

Constellation

On

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

Cell

N_TAoffset

DL Subcarrier Spacing(data) 15kHz

UL Subcarrier Spacing(data) 15kHz

BW Setting Mode Symmetric

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

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

Power Measurement - Count PWR_AVG

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

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

Spectrum Emission Mask

On

Adjacent Channel Power

In-Band Emission

On

Spectrum Flatness

On

EVM

On

Phase Error

On

Magnitude Error

On

Constellation

On

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

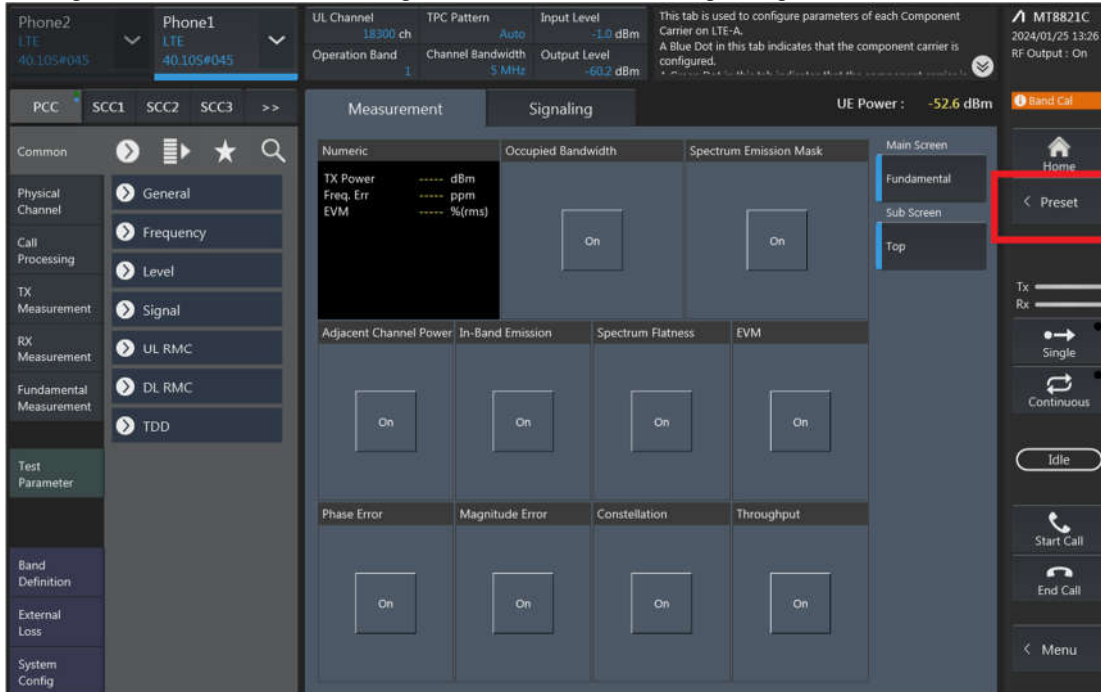
SSB Frequency 627.750 000 MHz

Channel Setting Mode Lowest GSCN

Operation Band 71

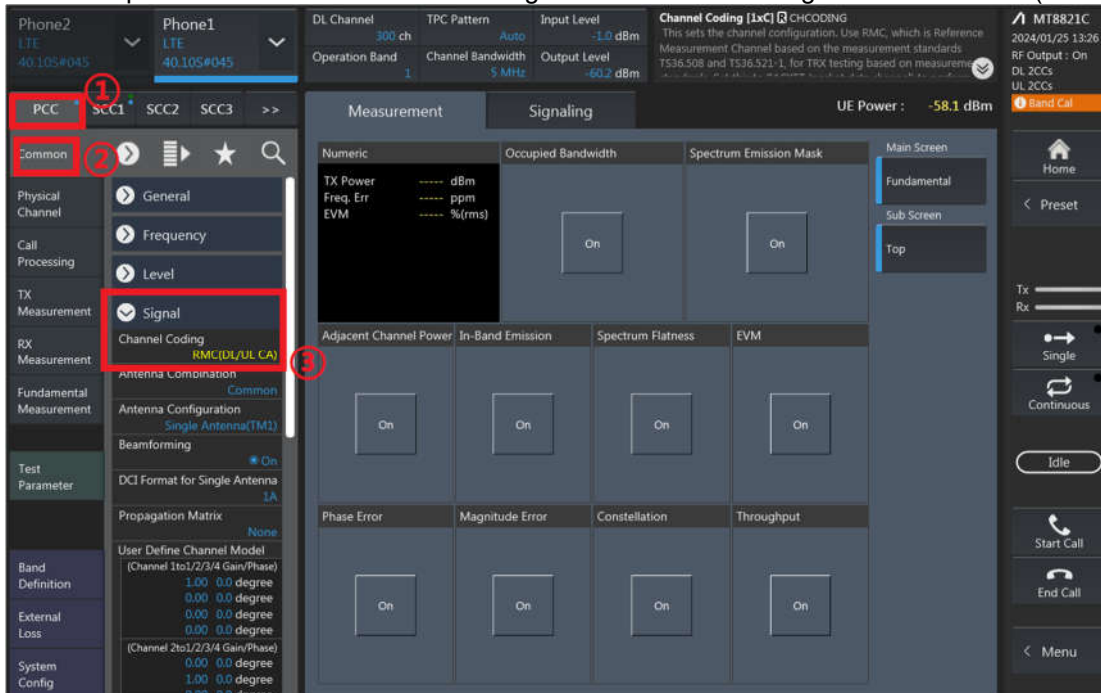
LTE Uplink and Downlink Carrier Aggregation configurations:

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



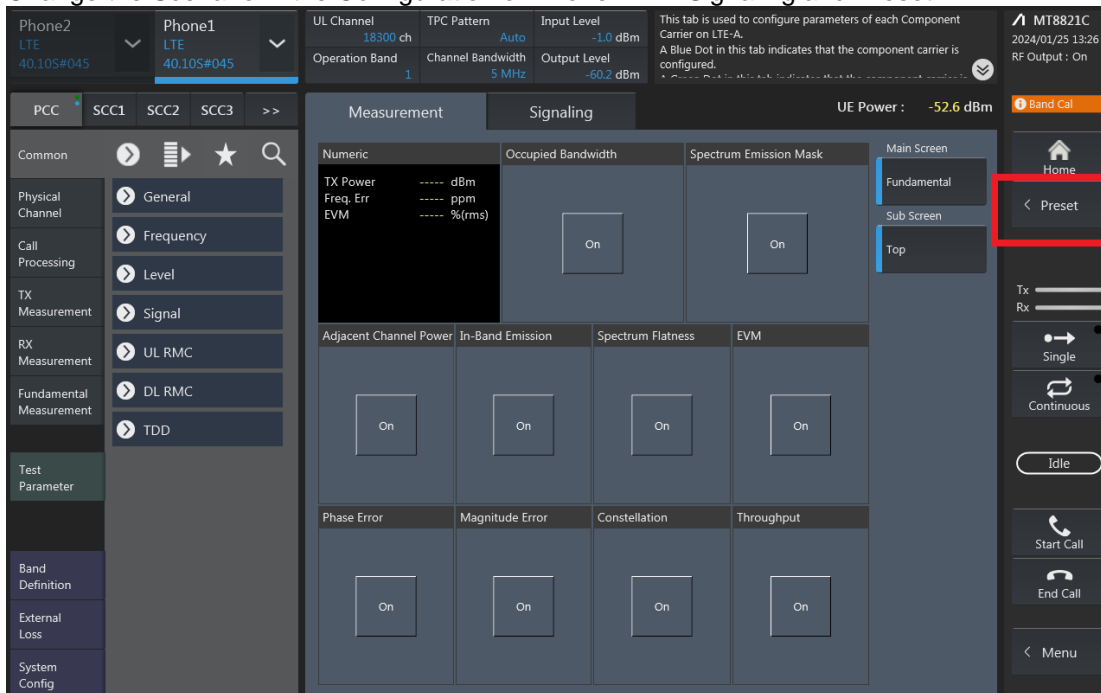
2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:

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



LTE Uplink and Downlink Carrier Aggregation configurations:

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

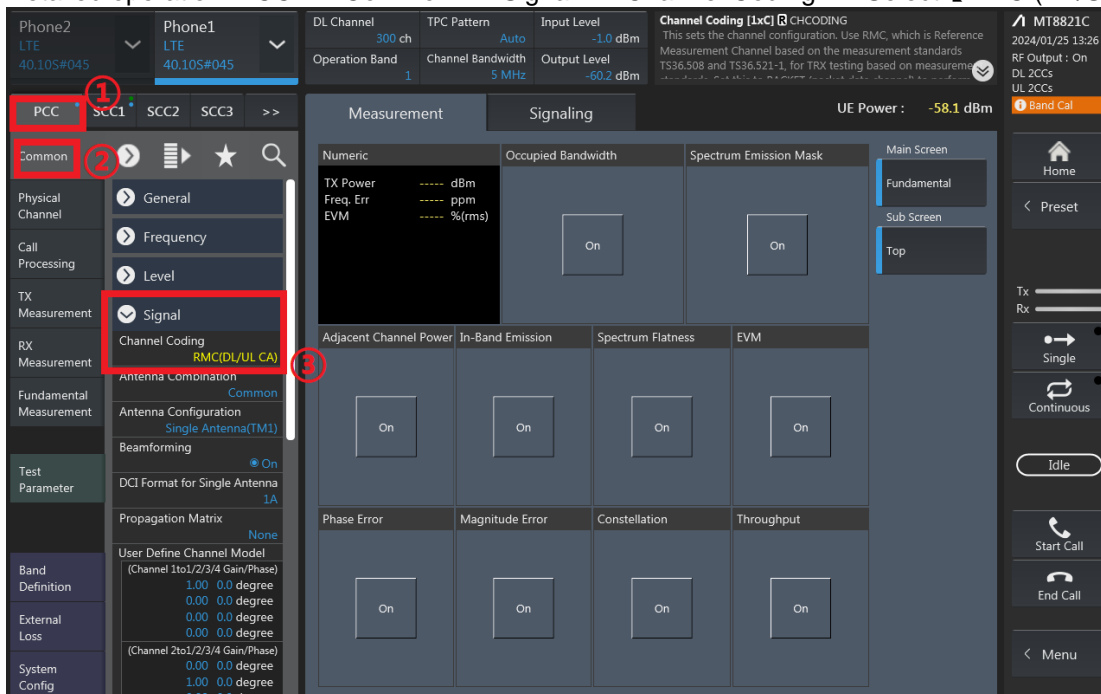


The screenshot shows the LTE configuration interface for Phone1. The 'Signaling' tab is selected, and the 'Preset' button is highlighted with a red box. The interface displays various measurement and signaling parameters, including TX Power, Occupied Bandwidth, and Spectrum Emission Mask. The UE Power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

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

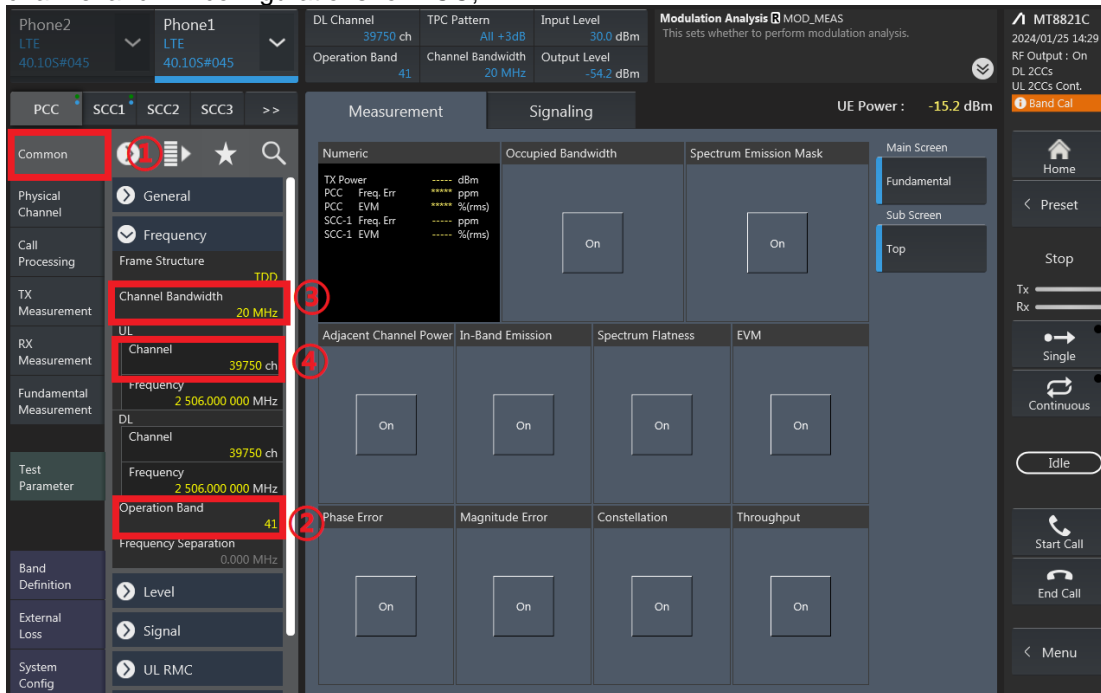
For example, Uplink Carrier Aggregation:

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



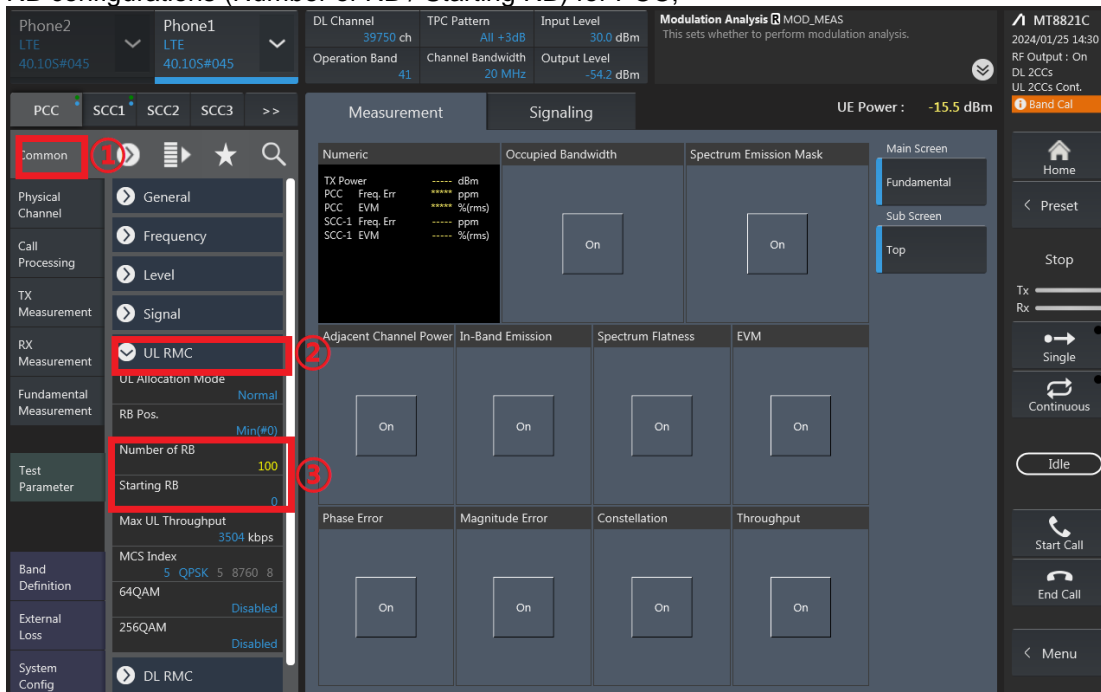
The screenshot shows the LTE configuration interface for Phone1, specifically the Channel Coding configuration. The 'PCC' tab is selected, and the 'Common' menu is open. The 'Signal' option is selected, and the 'RMC(DL/UL CA)' option is highlighted with a red box. The interface displays various measurement and signaling parameters, including DL Channel, TPC Pattern, Input Level, and Channel Coding. The UE Power is shown as -58.1 dBm.

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



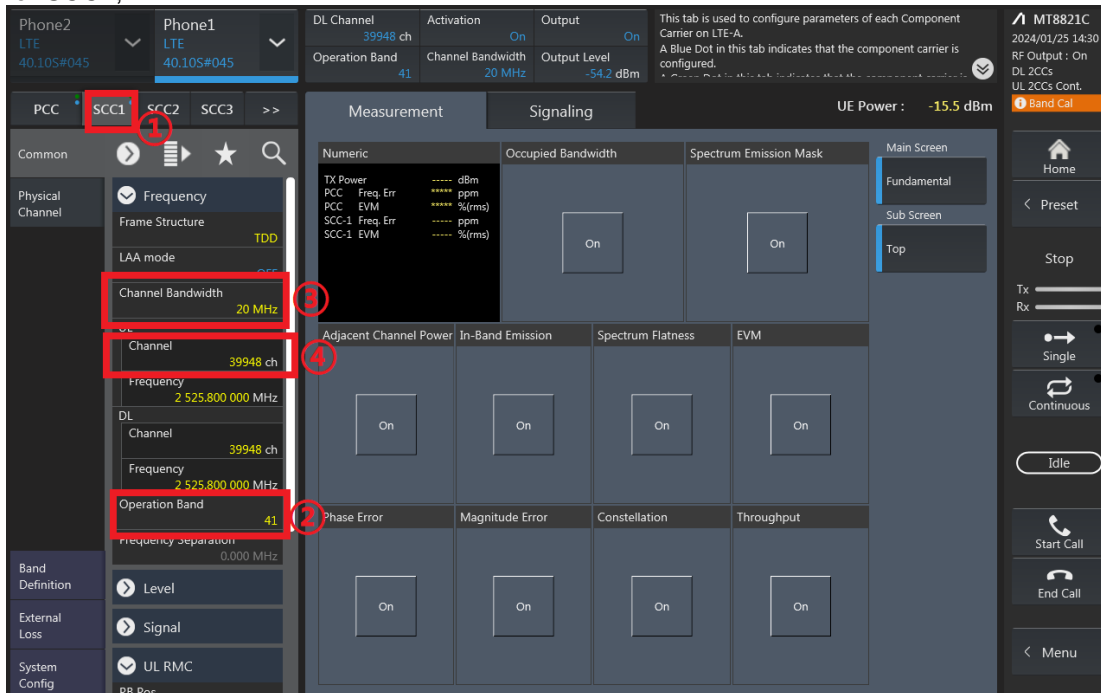
The screenshot displays the PCC parameter settings interface. The left sidebar contains a menu with 'Common' selected. The main area shows 'Measurement' and 'Signaling' tabs. The 'Measurement' tab is active, showing various metrics like TX Power, Occupied Bandwidth, and Spectrum Emission Mask. The 'Signaling' tab shows 'On' buttons for various metrics. The top status bar shows 'Phone1 LTE 40.10S#045' and 'DL Channel 39750 ch'. The bottom status bar shows 'UE Power: -15.2 dBm'.

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



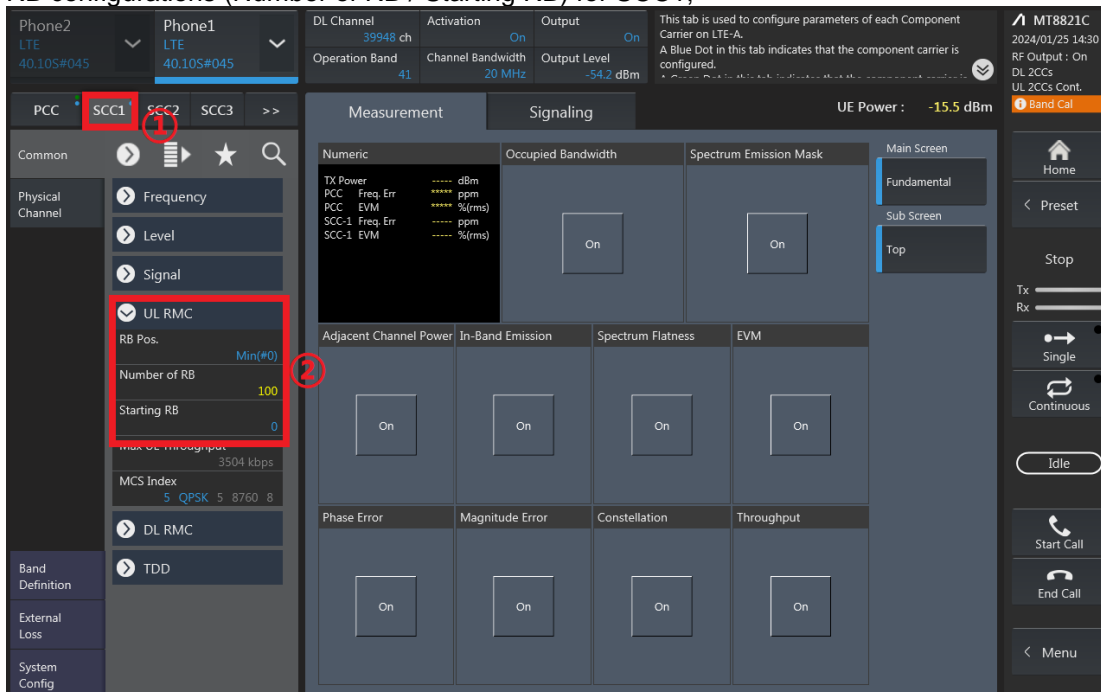
The screenshot displays the RB configurations interface. The left sidebar contains a menu with 'Common' selected. The main area shows 'Measurement' and 'Signaling' tabs. The 'Measurement' tab is active, showing various metrics like TX Power, Occupied Bandwidth, and Spectrum Emission Mask. The 'Signaling' tab shows 'On' buttons for various metrics. The top status bar shows 'Phone1 LTE 40.10S#045' and 'DL Channel 39750 ch'. The bottom status bar shows 'UE Power: -15.5 dBm'.

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



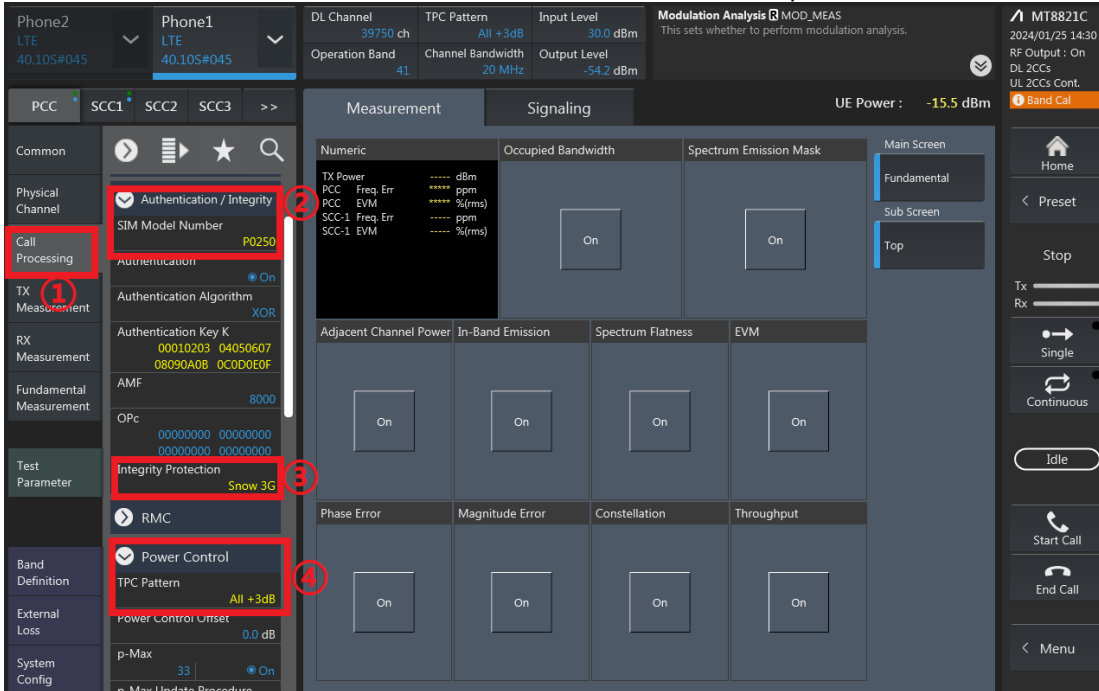
The screenshot shows the SCC1 configuration screen. The 'DL Channel' is set to 39948 ch, 'Activation' is On, and 'Output' is On. The 'Channel Bandwidth' is 20 MHz and the 'Operation Band' is 41. The interface includes sections for 'Measurement' and 'Signaling' with various 'On' buttons for metrics like TX Power, Occupied Bandwidth, Spectrum Emission Mask, Adjacent Channel Power, In-Band Emission, Spectrum Flatness, EVM, Phase Error, Magnitude Error, Constellation, and Throughput.

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



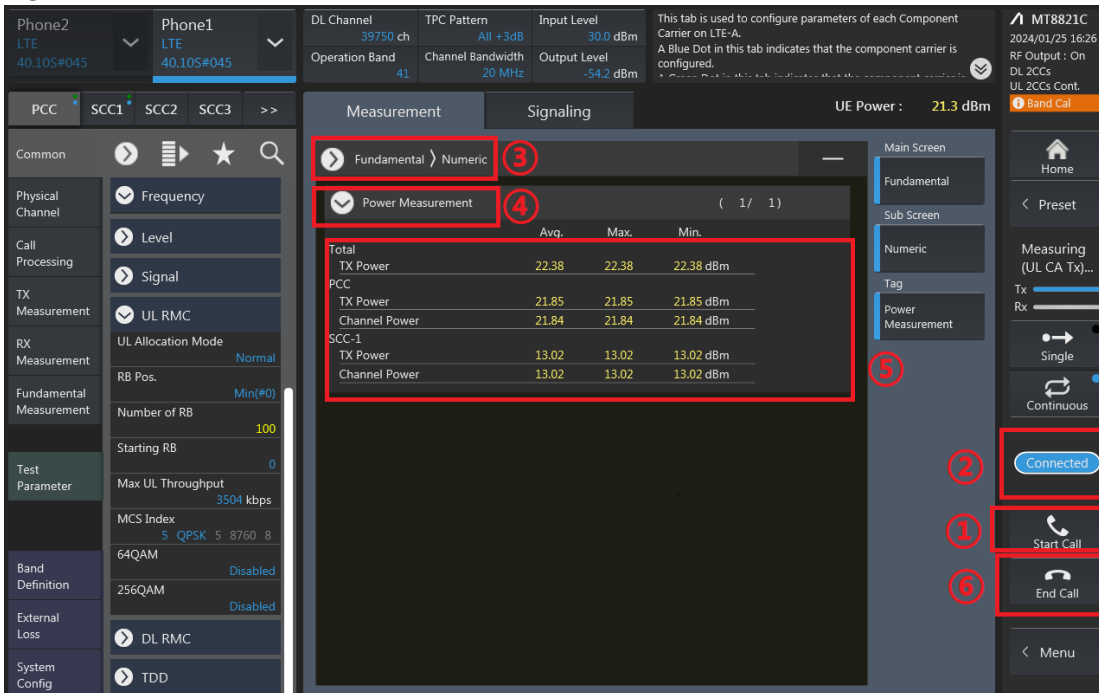
This screenshot shows the 'UL RMC' configuration section expanded. The 'Number of RB' is set to 100 and the 'Starting RB' is set to 0. The 'RB Pos.' is set to Min(#0). Other parameters like 'Max UL Throughput' (3504 kbps) and 'MCS Index' (5 QPSK 5 8760 8) are also visible.

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



Downlink CA Power

2CA DL

CA List	PCC										SCC				Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	Offset			Band	(MHz)	Freq. (MHz)			
CA_SA-7A	Band 5	Ant 0	10M	936.5	20525	QPSK	1	0	4+4MIMO	Band 7	20M	2655	3100	4+4MIMO	22.76	22.87
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4+4MIMO	Band 5	10M	881.5	7525		23.16	23.26
CA_7A-26A	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4+4MIMO	Band 26	15M	876.5	8865		23.12	23.26
	Band 26	Ant 0	15M	831.5	26865	QPSK	1	0	4+4MIMO	Band 7	20M	2655	3100	4+4MIMO	22.86	22.86
CA_7A-7A	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4+4MIMO	Band 7	5M	2587.5	3425	4+4MIMO	23.19	23.26
CA_7B	Band 7	Ant 1	15M	2535	21100	QPSK	1	0	4+4MIMO	Band 7	5M	2587.5	3425	4+4MIMO	23.16	23.26
CA_7C	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4+4MIMO	Band 7	20M	3554.8	3298	4+4MIMO	23.21	23.26
CA_38C	Band 38	Ant 4	20M	2580	37850	QPSK	1	0	4+4MIMO	Band 38	20M	2592.8	38048	4+4MIMO	23.30	23.45
CA_41A-42A	Band 41	Ant 4	20M	2593	40620	QPSK	1	0	4+4MIMO	Band 42	20M	3000	42590	4+4MIMO	23.48	23.48
	Band 42	Ant 5	20M	3500	42590	QPSK	1	0	4+4MIMO	Band 41	20M	2593	40620	4+4MIMO	23.66	23.76
CA_41A-41A	Band 41	Ant 4	20M	2593	40620	QPSK	1	0	4+4MIMO	Band 41	5M	2587.5	41560	4+4MIMO	23.33	23.49
CA_42C	Band 42	Ant 5	20M	3500	42590	QPSK	1	0	4+4MIMO	Band 42	20M	3518.8	42788	4+4MIMO	23.58	23.76



3CA DL

3CA List	PCC									SCC1				SCC2				Power			
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna Configuration		LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq (MHz)	Channel	Mod.	RB	RB Offset		Band	(MHz)	Freq (MHz)	Channel	DL Antenna Configuration	Band	(MHz)	Freq (MHz)	Channel	DL Antenna Configuration	Tx Power (dBm)	Tx Power (dBm)
CA_41A41C	Band 41	Ant 4	20M	2675.8	39750	QPSK	1	0		Band 41	20M	2660.2	41292		Band 41	20M	2690	41490		23.28	23.49
CA_41D	Band 41	Ant 4	20M	2593	40620	QPSK	1	0		Band 41	20M	2612.8	40818		Band 41	20M	2632.6	41016		23.21	23.49

Uplink CA Power

CA_7C Ant1 Default&DS12								
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	23.11	24.00
21100	21298	QPSK	1	99	1	0	23.24	24.00
21350	21152	QPSK	1	0	1	99	23.08	24.00

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	23.35	24.00
37901	38099	QPSK	1	99	1	0	23.24	24.00
38150	37952	QPSK	1	0	1	99	23.04	24.00

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	23.14	24.00
40185	40383	QPSK	1	99	1	0	23.03	24.00
40620	40818	QPSK	1	99	1	0	23.29	24.00
41055	41253	QPSK	1	99	1	0	23.06	24.00
41490	41292	QPSK	1	0	1	99	23.08	24.00

CA_42C Ant 5								
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		
42190	42388	QPSK	1	99	1	0	23.61	24.00
42590	42788	QPSK	1	99	1	0	23.68	24.00
42990	42792	QPSK	1	0	1	99	23.59	24.00



Uplink CA Power

CA_7C Ant1 DSI3&DSI7								
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	17.61	18.50
21100	21298	QPSK	1	99	1	0	17.69	18.50
21350	21152	QPSK	1	0	1	99	17.42	18.50

CA_38C Ant 4 DSI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	15.89	16.50
37901	38099	QPSK	1	99	1	0	15.88	16.50
38150	37952	QPSK	1	0	1	99	15.71	16.50

CA_41C Ant 4 DSI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	15.96	16.50
40185	40383	QPSK	1	99	1	0	15.91	16.50
40620	40818	QPSK	1	99	1	0	15.84	16.50
41055	41253	QPSK	1	99	1	0	15.73	16.50
41490	41292	QPSK	1	0	1	99	15.82	16.50

CA_42C Ant 5 DSI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	19.26	20.00
42590	42788	QPSK	1	99	1	0	19.73	20.00
42990	42792	QPSK	1	0	1	99	19.49	20.00

CA_7C Ant1 DSI6								
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	20.09	21.00
21100	21298	QPSK	1	99	1	0	20.18	21.00
21350	21152	QPSK	1	0	1	99	19.92	21.00

CA_38C Ant 4 DSI3								
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	16.83	17.50
37901	38099	QPSK	1	99	1	0	16.80	17.50
38150	37952	QPSK	1	0	1	99	16.71	17.50

CA_41C Ant 4 DSI3								
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	15.2	16.00
40185	40383	QPSK	1	99	1	0	15.39	16.00
40620	40818	QPSK	1	99	1	0	15.55	16.00
41055	41253	QPSK	1	99	1	0	15.38	16.00
41490	41292	QPSK	1	0	1	99	15.36	16.00

CA_42C Ant 5 DSI3								
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		
42190	42388	QPSK	1	99	1	0	17.91	18.50
42590	42788	QPSK	1	99	1	0	18.25	18.50
42990	42792	QPSK	1	0	1	99	18.21	18.50

CA_38C Ant 4 DSI7								
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	13.37	14.00
37901	38099	QPSK	1	99	1	0	13.44	14.00
38150	37952	QPSK	1	0	1	99	13.34	14.00

CA_41C Ant 4 DSI7								
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	13.25	14.00
40185	40383	QPSK	1	99	1	0	13.37	14.00
40620	40818	QPSK	1	99	1	0	13.4	14.00
41055	41253	QPSK	1	99	1	0	13.33	14.00
41490	41292	QPSK	1	0	1	99	13.38	14.00

CA_42C Ant 5 DSI7								
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		
42190	42388	QPSK	1	99	1	0	15.68	16.50
42590	42788	QPSK	1	99	1	0	16.19	16.50
42990	42792	QPSK	1	0	1	99	16.06	16.50

CA_38C Ant 4 DSI6								
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	19.68	20.50
37901	38099	QPSK	1	99	1	0	19.83	20.50
38150	37952	QPSK	1	0	1	99	19.83	20.50

CA_41C Ant 4 DSI6								
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	19.92	20.50
40185	40383	QPSK	1	99	1	0	19.95	20.50
40620	40818	QPSK	1	99	1	0	19.87	20.50
41055	41253	QPSK	1	99	1	0	19.83	20.50
41490	41292	QPSK	1	0	1	99	19.68	20.50

CA_42C Ant 5 DSI6								
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		
42190	42388	QPSK	1	99	1	0	22.71	23.00
42590	42788	QPSK	1	99	1	0	22.75	23.00
42990	42792	QPSK	1	0	1	99	22.69	23.00