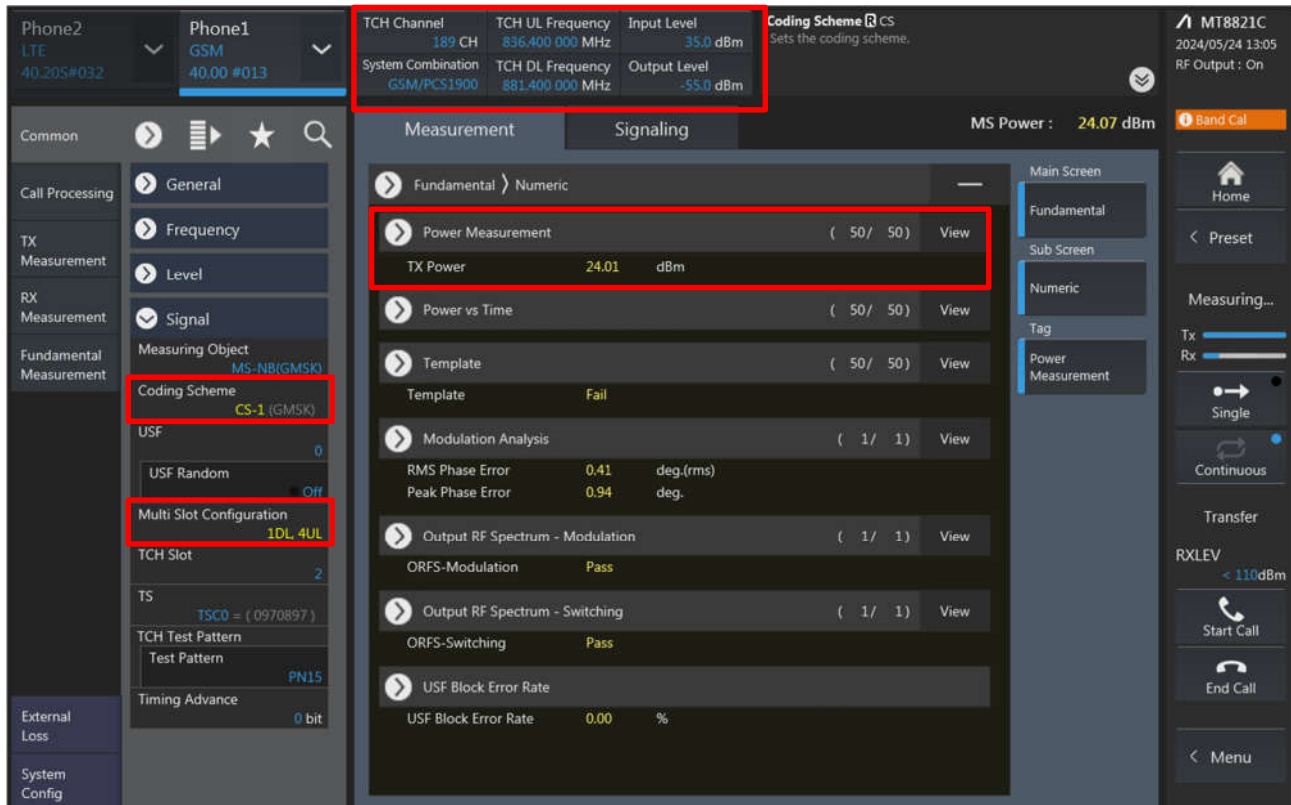


Power measurement connection diagram:

The power measurement for 2G/3G/LTE/5G FR1/UL and DL CA is to establish a connection between device and call box, and via call box to configure Bands, channel, BWs, RB size, carrier aggregation of CA, frequency channels, SCS and maximum output power. Hereunder is screenshot call box connection information for 2G/3G/LTE/5G FR1/UL and DL CA.

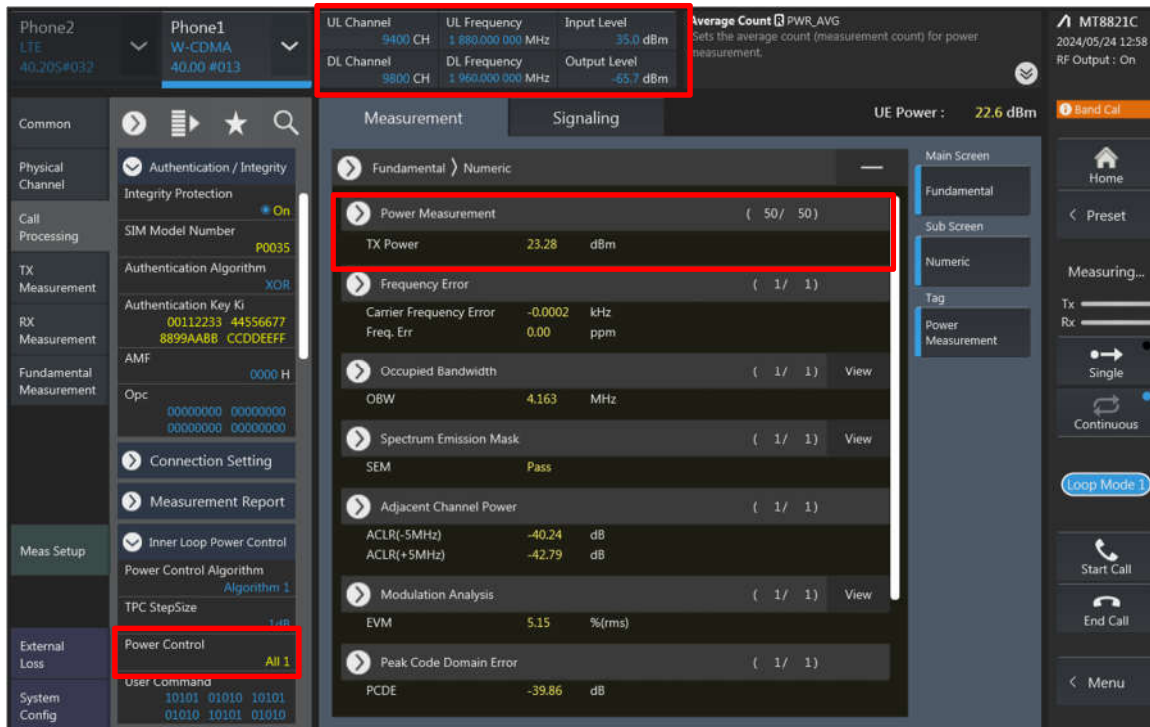
<GSM>



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

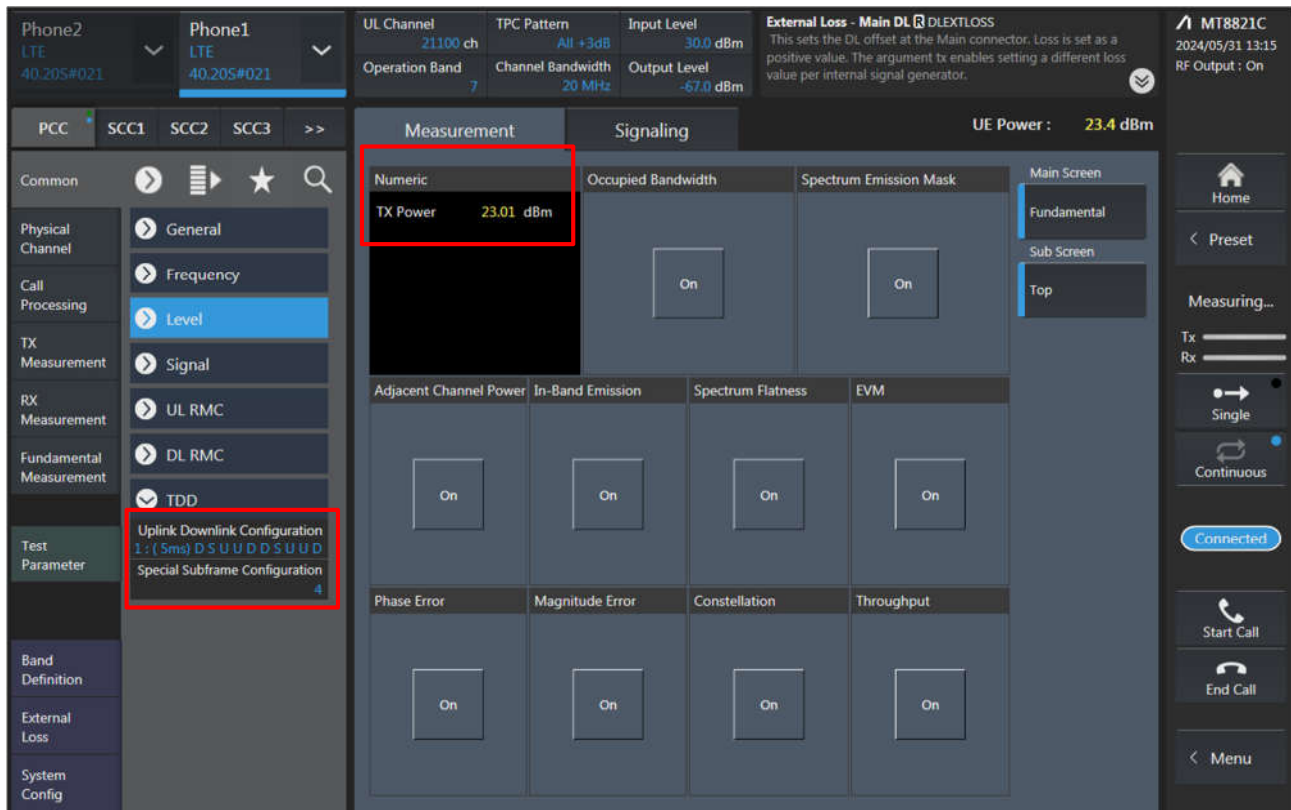
- Top Bar:** Shows Phone2 (LTE 40.205#032) and Phone1 (GSM 40.00 #013). The TCH Channel is 189 CH, TCH UL Frequency is 836.400 000 MHz, Input Level is 35.0 dBm, TCH DL Frequency is 881.400 000 MHz, and Output Level is -55.0 dBm. The Coding Scheme is CS.
- Left Panel:** Contains navigation options like Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, and External Loss. The 'Fundamental Measurement' section is expanded, showing 'Coding Scheme' as CS-1 (GMSK) and 'Multi Slot Configuration' as 1DL, 4UL.
- Main Panel:** Displays 'Measurement' and 'Signaling' tabs. The 'Measurement' tab is active, showing 'Power Measurement' with a 'TX Power' of 24.01 dBm. Other measurements include 'Power vs Time', 'Template', 'Modulation Analysis', 'Output RF Spectrum - Modulation', 'Output RF Spectrum - Switching', and 'USF Block Error Rate'.
- Right Panel:** Shows 'MS Power' as 24.07 dBm and 'Band Cal' status. It also includes a 'Main Screen' section with 'Fundamental', 'Sub Screen', 'Numeric', and 'Tag' options.

<WCDMA>



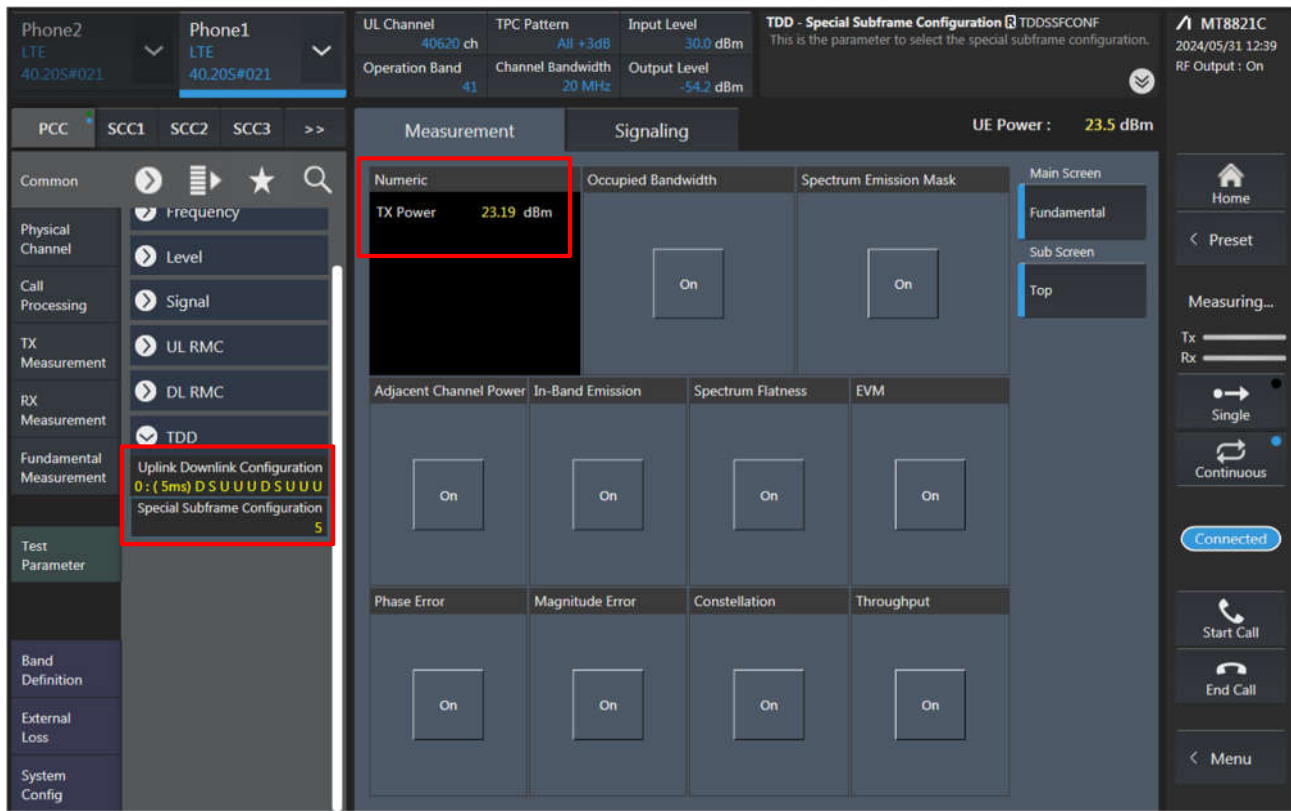
The screenshot shows the WCDMA measurement interface. The top bar displays 'Phone2 LTE 40.205#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' tab is active, showing a list of metrics. A red box highlights the 'Power Measurement' section, which includes 'TX Power' at 23.28 dBm. Another red box highlights the 'UL Channel' and 'DL Channel' settings, showing 'UL Channel 9400 CH' and 'DL Channel 9800 CH'. The 'UE Power' is displayed as 22.6 dBm. The interface also includes a 'Main Screen' sidebar with options like 'Fundamental', 'Sub Screen', 'Numeric', and 'Tag'. The bottom right corner shows 'MT8821C' and '2024/05/24 12:58'.

<LTE>



The screenshot shows the LTE measurement interface. The top bar displays 'Phone2 LTE 40.205#021' and 'Phone1 LTE 40.205#021'. The 'Measurement' tab is active, showing a list of metrics. A red box highlights the 'TX Power' at 23.01 dBm. Another red box highlights the 'Uplink Downlink Configuration' section, showing 'Uplink Downlink Configuration 1: (5ms) D S U U D D S U U D' and 'Special Subframe Configuration 4'. The 'UE Power' is displayed as 23.4 dBm. The interface also includes a 'Main Screen' sidebar with options like 'Fundamental', 'Sub Screen', and 'Top'. The bottom right corner shows 'MT8821C' and '2024/05/31 13:15'.

<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

Measurement Signaling UE Power : 23.5 dBm

Numeric Occupied Bandwidth Spectrum Emission Mask

TX Power 23.19 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

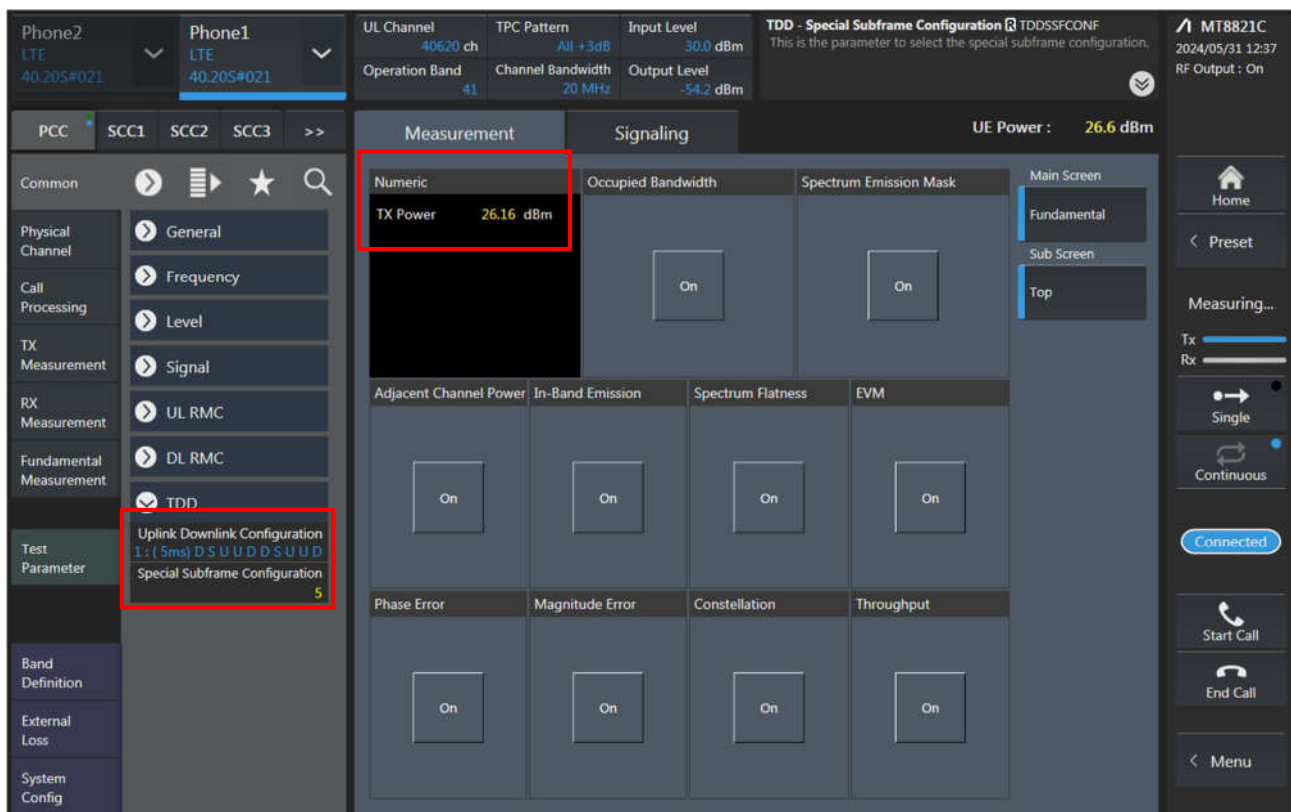
Frequency Level Signal UL RMC DL RMC TDD

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

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

Measurement Signaling UE Power : 26.6 dBm

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

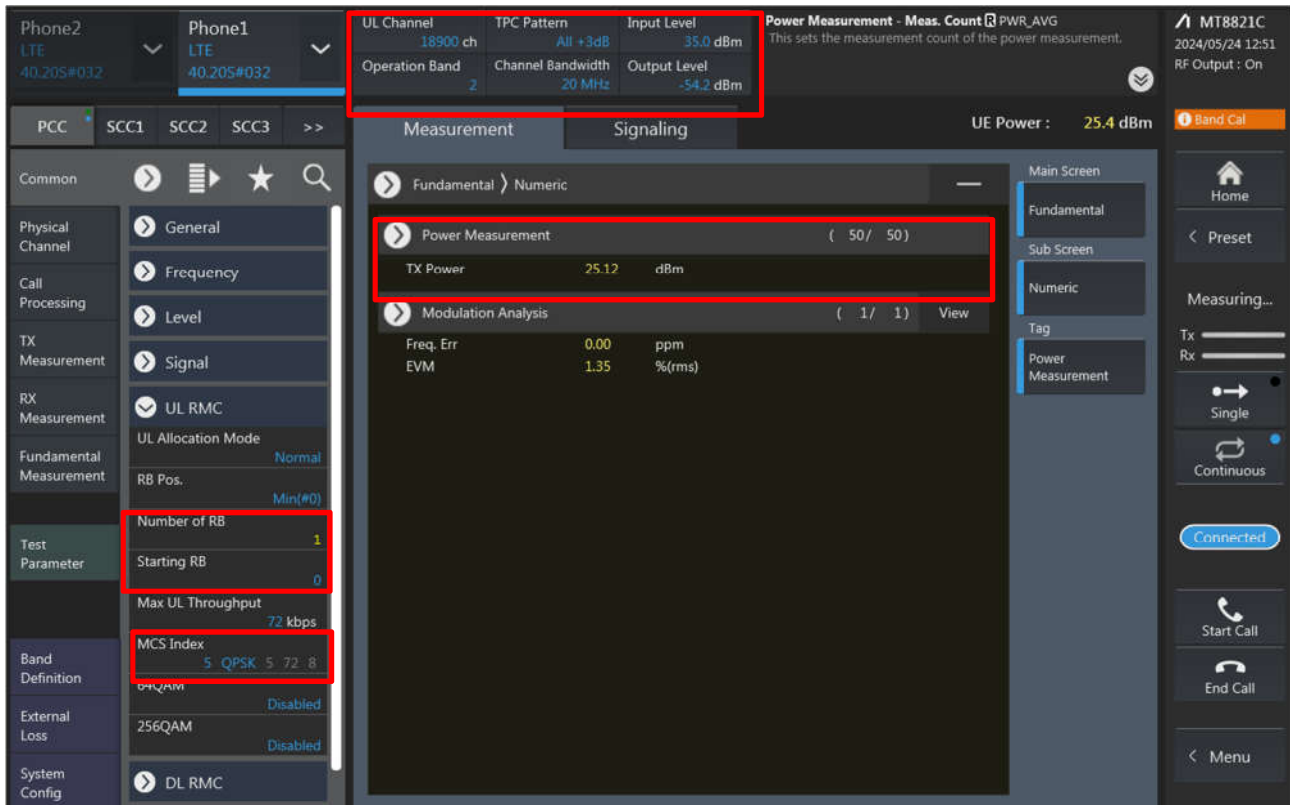
Common Physical Channel Call Processing TX Measurement RX Measurement Fundamental Measurement Test Parameter Band Definition External Loss System Config

General Frequency Level Signal UL RMC DL RMC TDD

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

Main Screen Fundamental Sub Screen Top

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



Phone1 40.20S#032

UL Channel 18900 ch **TPC Pattern** All +3dB **Input Level** 35.0 dBm

Operation Band 2 **Channel Bandwidth** 20 MHz **Output Level** -54.2 dBm

Power Measurement - Meas. Count PWR_AVG

UE Power : 25.4 dBm

Measurement **Signaling**

Power Measurement (50 / 50)

TX Power 25.12 dBm

Modulation Analysis (1 / 1) View

Freq. Err 0.00 ppm

EVM 1.35 %(rms)

Test Parameter

Number of RB 1

Starting RB 0

Max UL Throughput 72 kbps

MCS Index 5 QPSK 5 72 8

Band Definition 256QAM Disabled

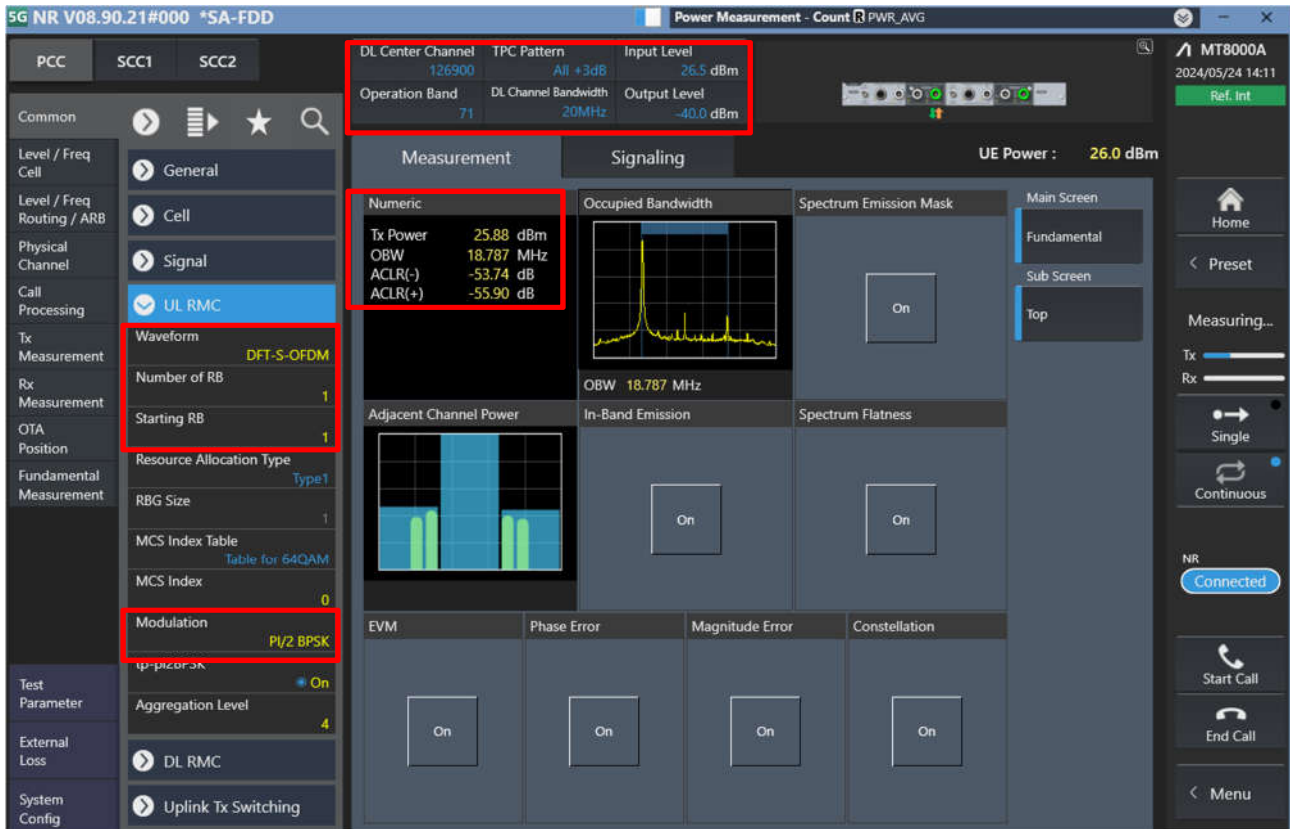
External Loss Disabled

System Config DL RMC

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

Home **Preset** **Measuring...** **Connected** **Start Call** **End Call** **Menu**

<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

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 **Spectrum Emission Mask** On

OBW 18.787 MHz

Adjacent Channel Power **In-Band Emission** On **Spectrum Flatness** On

EVM On **Phase Error** On **Magnitude Error** On **Constellation** On

Test Parameter

Waveform DFT-S-OFDM

Number of RB 1

Starting RB 1

Resource Allocation Type Type1

RBG Size 1

MCS Index Table Table for 64QAM

MCS Index 0

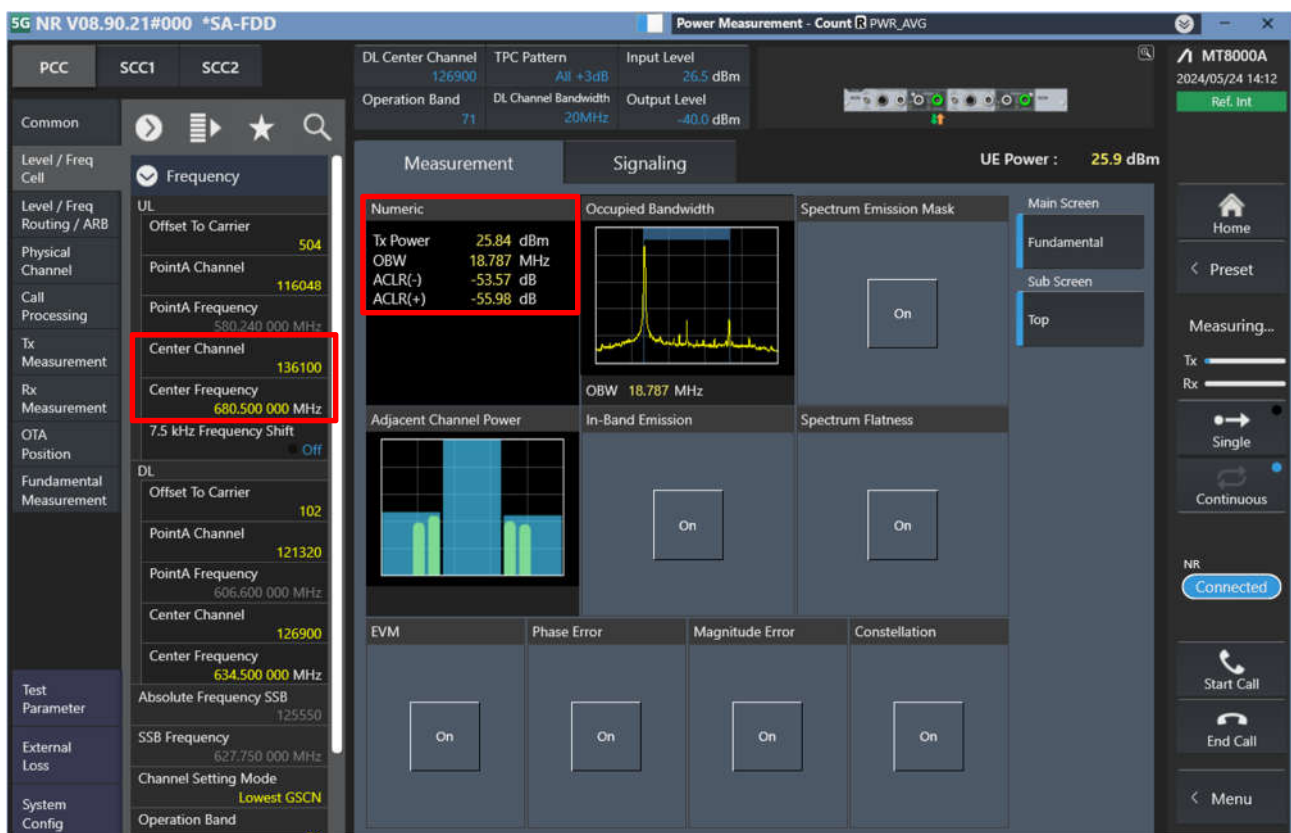
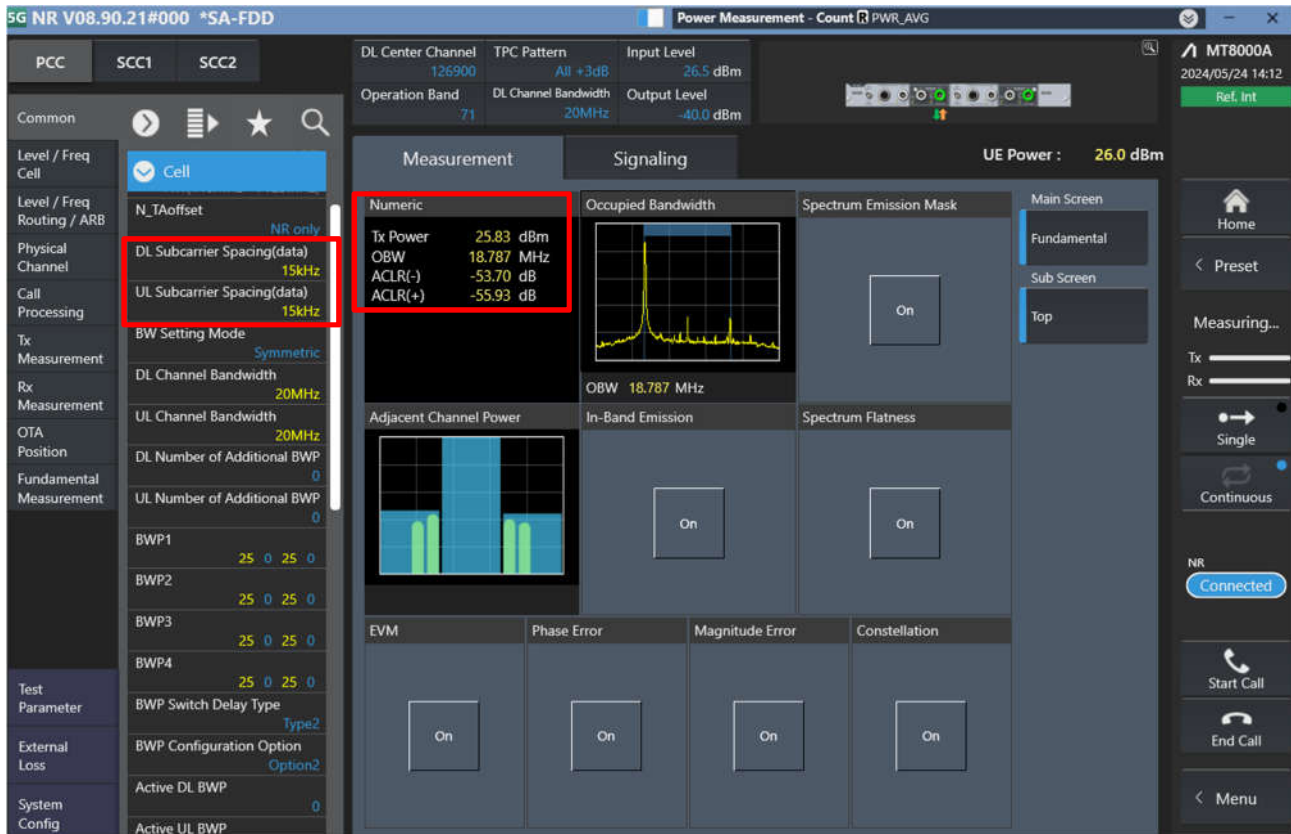
Modulation 16-QAM

Aggregation Level 4

DL RMC **Uplink Tx Switching**

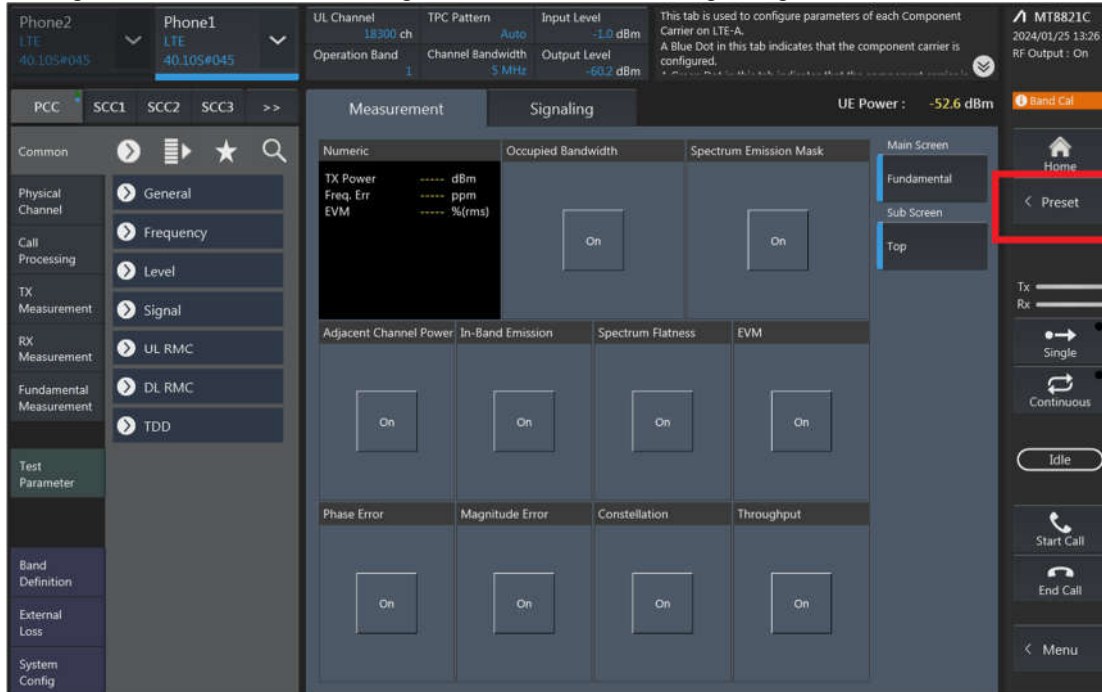
MT8000A 2024/05/24 14:11 Ref. Int

Home **Preset** **Measuring...** **Connected** **Start Call** **End Call** **Menu**



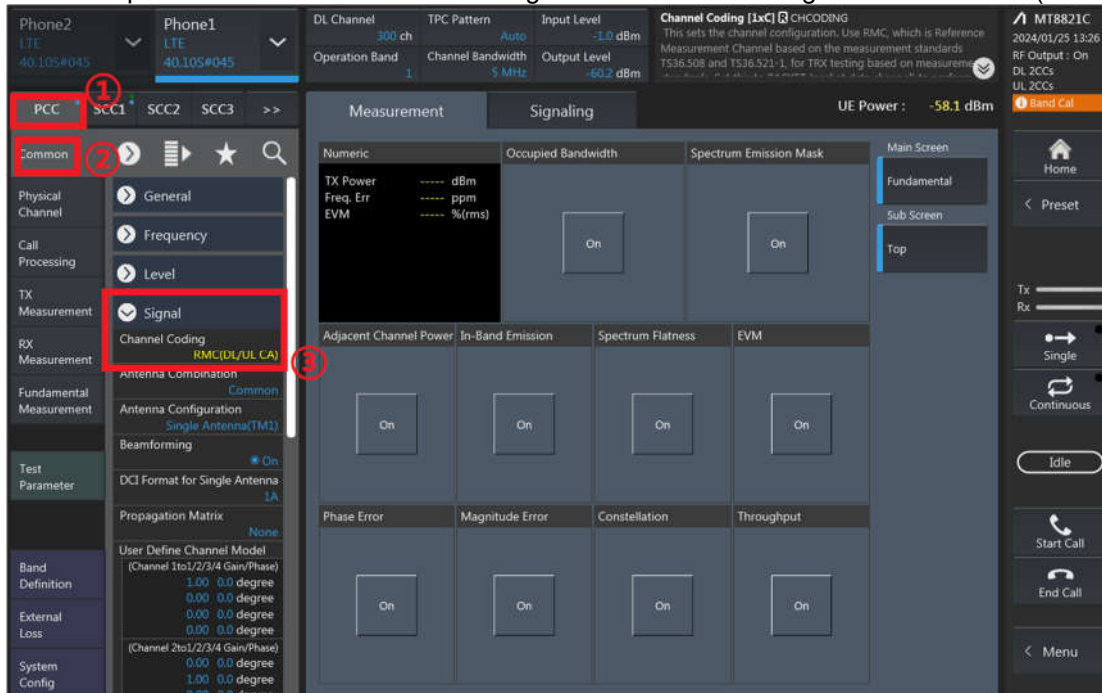
LTE Uplink and Downlink Carrier Aggregation configurations:

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

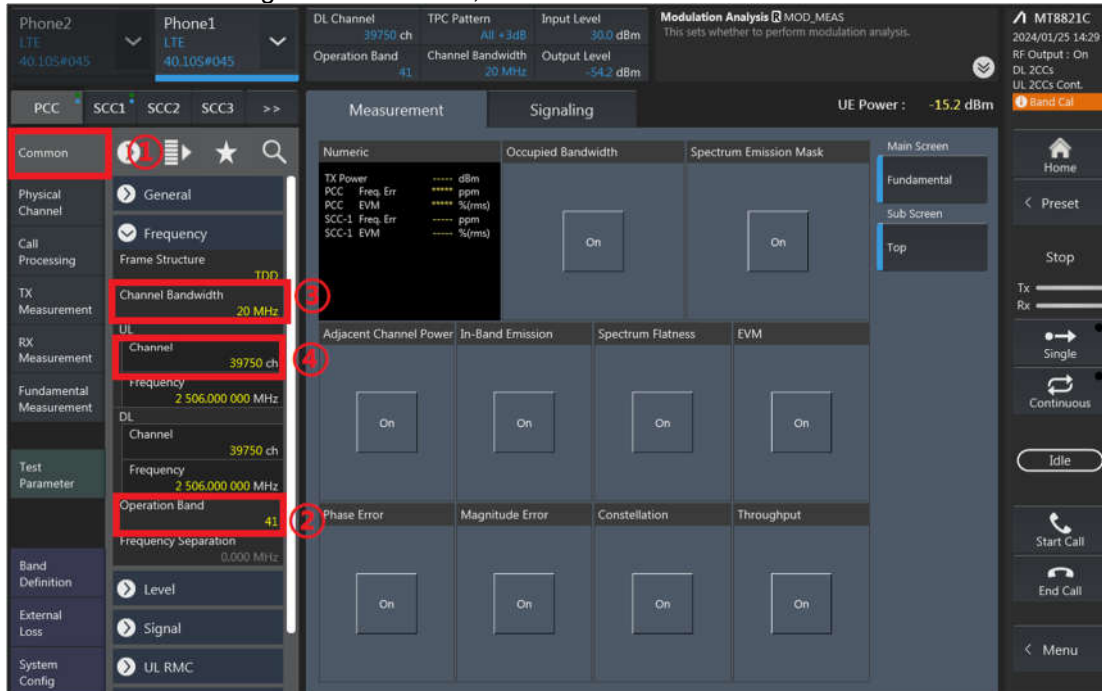


2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:

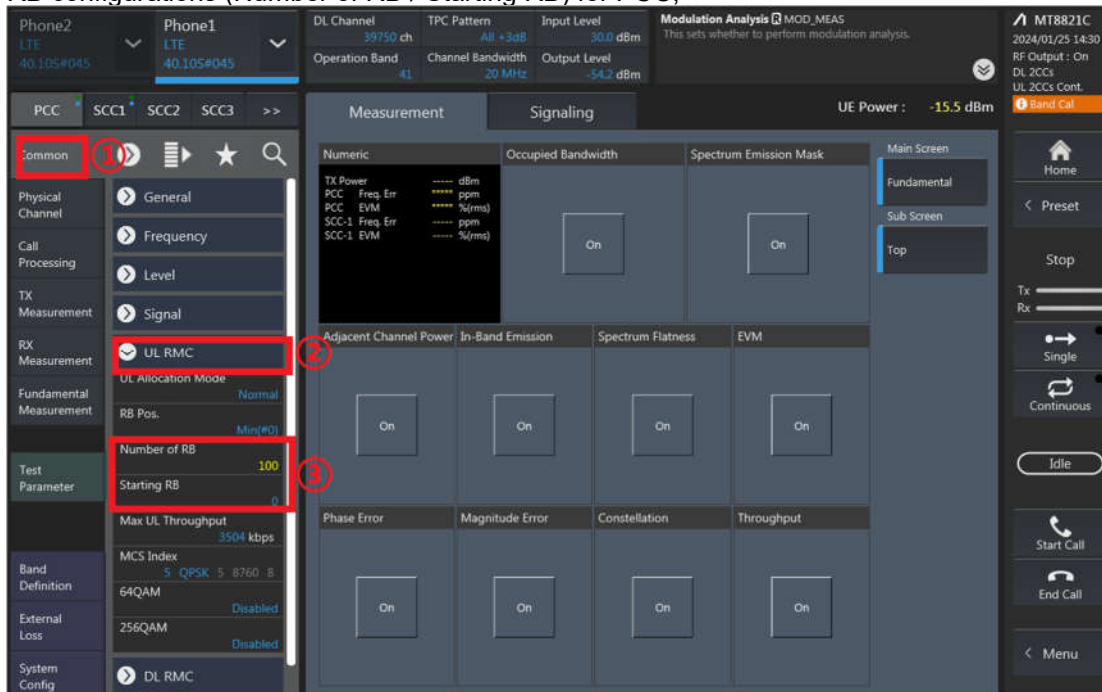
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



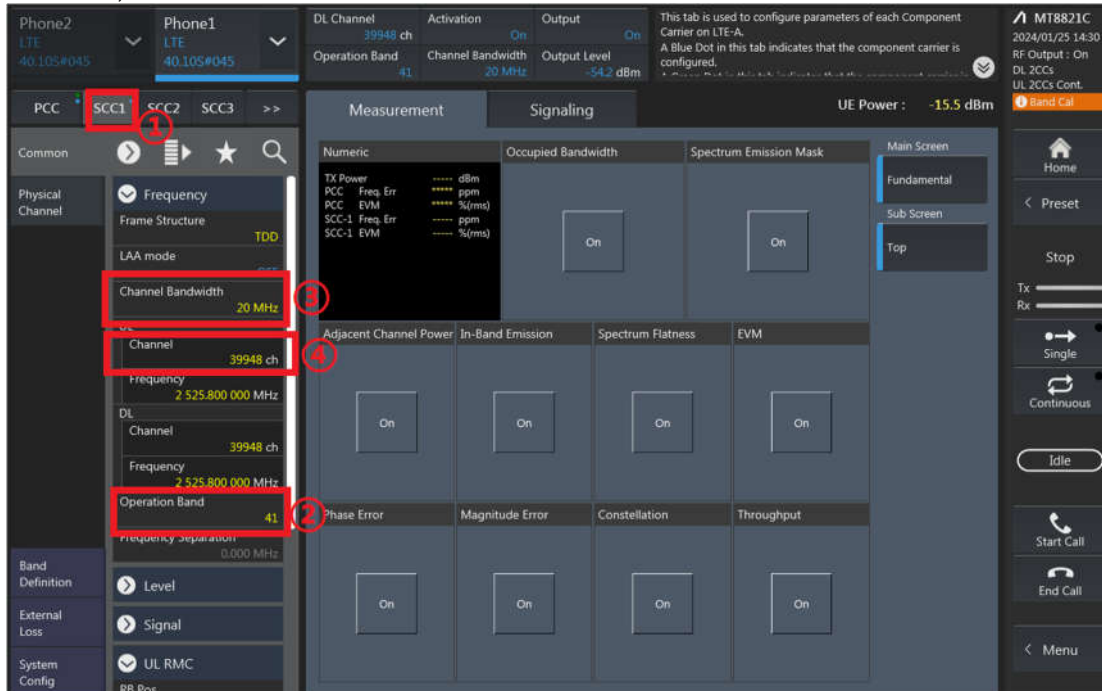
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



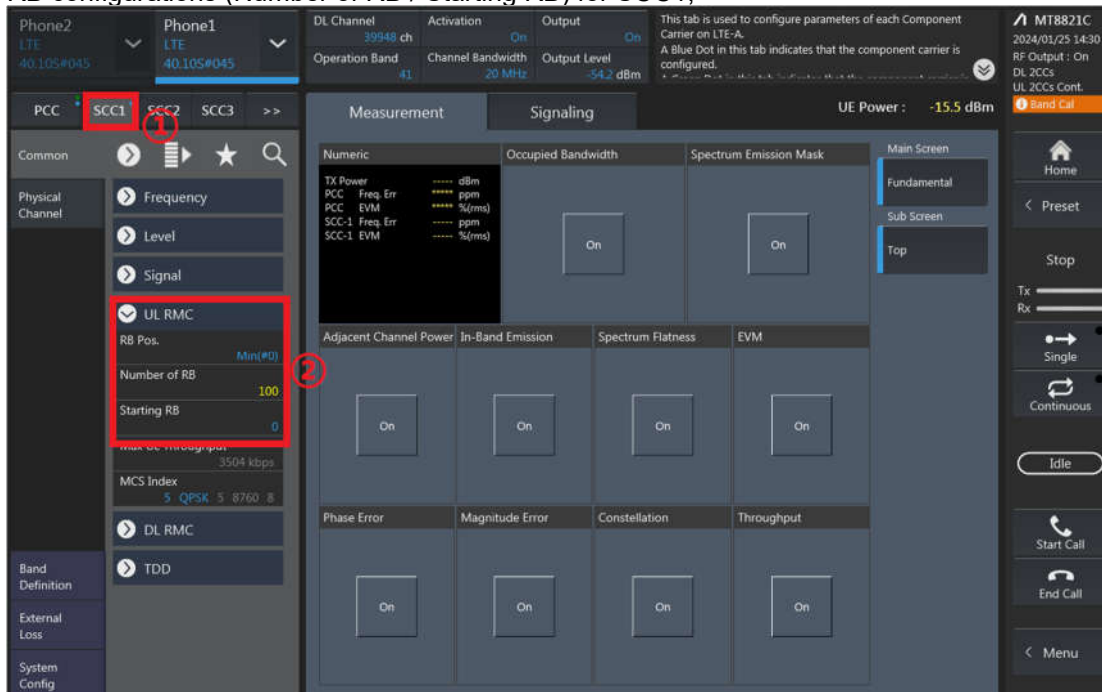
RB configurations (Number of RB / Starting RB) for PCC;



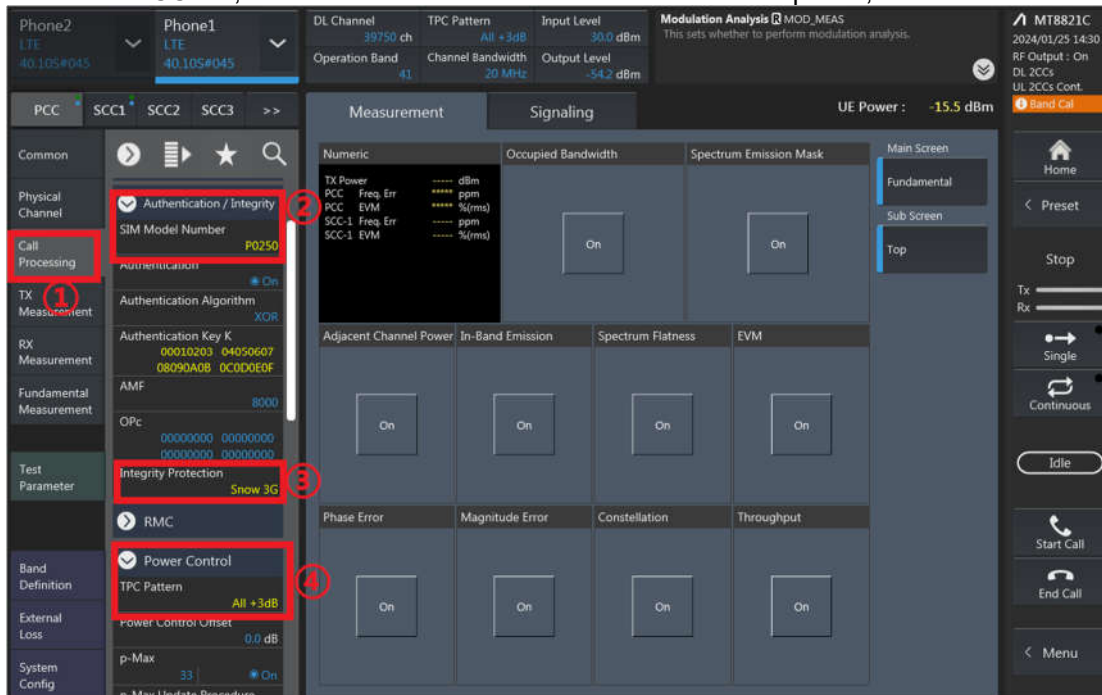
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



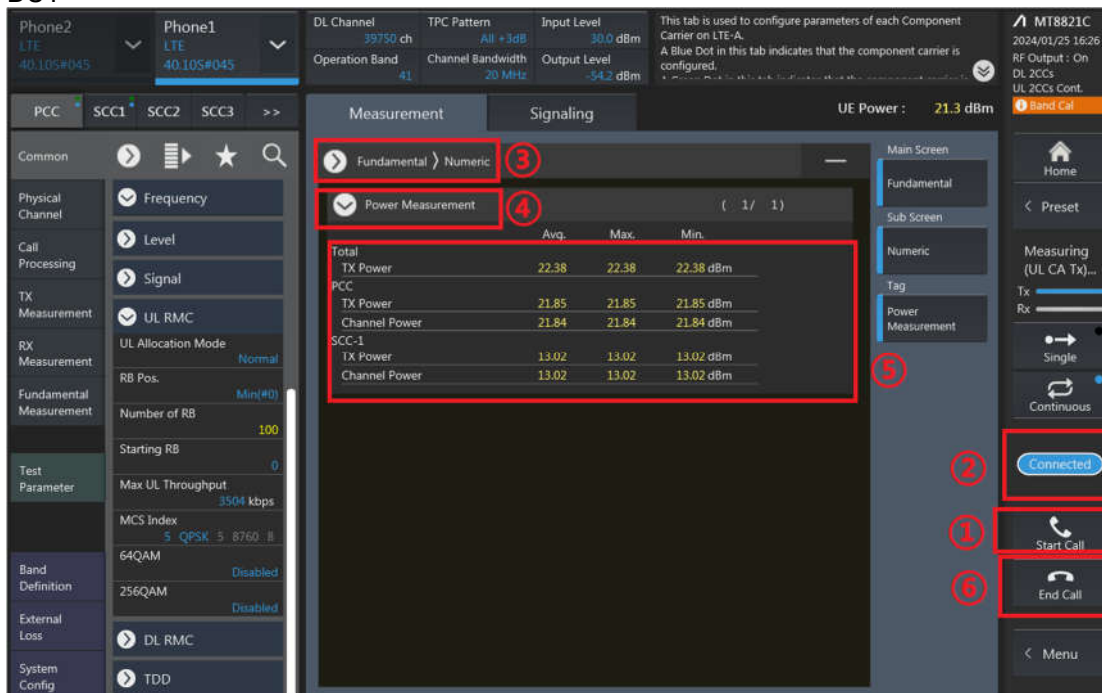
RB configurations (Number of RB / Starting RB) for SCC1;



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



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



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

DL CA Power

2CA DL																
CA List	PCC								SCC				Power			
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA	
	Band	Ant	(MHz)	Freq. Channel	Mod.	RB	RB Offset	Configuratio n	Band	(MHz)	Freq. Channel	Configuratio n	(dBm)	Tx Power (dBm)	Tx Power (dBm)	
CA_41A-42A	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.42	23.46
	Band 42	Ant 4	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.01	23.11
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.98	23.10
	Band 42	Ant 6	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.66	22.80
	Band 41	Ant 2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.47	23.60
	Band 42	Ant 3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.62	23.85
	Band 41	Ant 3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.94	23.06
	Band 42	Ant 8	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.43	23.47
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.54	22.65
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.61	22.74
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.83	22.88
	Band 66	Ant 3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.79	22.86
CA_66B	Band 66	Ant 0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.48	22.58
	Band 66	Ant 1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.82	22.85
	Band 66	Ant 2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.82	22.86
	Band 66	Ant 3	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.75	22.85
CA_66C	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.52	22.65
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.68	22.74
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.78	22.88
	Band 66	Ant 3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.78	22.88

3CA DL

3CA List	POC									SCC1				SCC2				Power			
	LTE	BW	BW	UL	UL	Mod.	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		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		(dBm)	Tx Power (dBm)
CA_41A-42C	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.32	23.46
	Band 42	Ant 4	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.01	23.11
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.01	23.10
	Band 42	Ant 6	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.74	22.80
	Band 41	Ant 2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.51	23.60
	Band 42	Ant 3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.76	23.85
	Band 41	Ant 3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	22.99	23.08
	Band 42	Ant 8	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.42	23.47
CA_41C-42A	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.35	23.46
	Band 42	Ant 4	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.07	23.11
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.07	23.10
	Band 42	Ant 6	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.89	22.90
	Band 41	Ant 2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.53	23.60
	Band 42	Ant 3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.77	23.85
	Band 41	Ant 3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.97	23.08
	Band 42	Ant 8	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.44	23.47
CA_42D	Band 42	Ant 4	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	23.04	23.11
	Band 42	Ant 6	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	22.68	22.80
	Band 42	Ant 3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	23.74	23.85
	Band 42	Ant 8	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	23.42	23.47

Uplink CA Power
Full&Default Power Mode

CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.56	24.00
132322	132415	QPSK	1	74	1	0	22.82	24.00
132597	132504	QPSK	1	0	1	24	22.75	24.00

CA_66C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.55	24.00
132322	132520	QPSK	1	99	1	0	22.83	24.00
132572	132374	QPSK	1	0	1	99	22.82	24.00

CA_66B Ant 3								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.19	24.00
132322	132415	QPSK	1	74	1	0	22.25	24.00
132597	132504	QPSK	1	0	1	24	22.19	24.00

CA_66C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.12	24.00
132322	132520	QPSK	1	99	1	0	22.29	24.00
132572	132374	QPSK	1	0	1	99	22.20	24.00

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.23	24.00
132322	132415	QPSK	1	74	1	0	22.26	24.00
132597	132504	QPSK	1	0	1	24	22.20	24.00

CA_66C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.28	24.00
132322	132520	QPSK	1	99	1	0	22.34	24.00
132572	132374	QPSK	1	0	1	99	22.31	24.00

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.18	24.00
132322	132415	QPSK	1	74	1	0	22.29	24.00
132597	132504	QPSK	1	0	1	24	22.25	24.00

CA_66C 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		
132072	132270	QPSK	1	99	1	0	22.18	24.00
132322	132520	QPSK	1	99	1	0	22.33	24.00
132572	132374	QPSK	1	0	1	99	22.25	24.00

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.82	25.00
40185	40383	QPSK	1	99	1	0	23.79	25.00
40620	40818	QPSK	1	99	1	0	23.92	25.00
41055	41253	QPSK	1	99	1	0	23.88	25.00
41490	41292	QPSK	1	0	1	99	23.73	25.00

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.12	24.00
40185	40383	QPSK	1	99	1	0	23.17	24.00
40620	40818	QPSK	1	99	1	0	23.22	24.00
41055	41253	QPSK	1	99	1	0	23.13	24.00
41490	41292	QPSK	1	0	1	99	22.97	24.00

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.09	25.00
40185	40383	QPSK	1	99	1	0	24.17	25.00
40620	40818	QPSK	1	99	1	0	24.23	25.00
41055	41253	QPSK	1	99	1	0	24.11	25.00
41490	41292	QPSK	1	0	1	99	23.87	25.00

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	22.95	25.00
40185	40383	QPSK	1	99	1	0	22.99	25.00
40620	40818	QPSK	1	99	1	0	23.14	25.00
41055	41253	QPSK	1	99	1	0	23.03	25.00
41490	41292	QPSK	1	0	1	99	22.95	25.00

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	26.25	28.00
40185	40383	QPSK	1	99	1	0	26.30	28.00
40620	40818	QPSK	1	99	1	0	26.37	28.00
41055	41253	QPSK	1	99	1	0	26.34	28.00
41490	41292	QPSK	1	0	1	99	26.25	28.00

CA_41C HPUE Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.59	27.00
40185	40383	QPSK	1	99	1	0	25.58	27.00
40620	40818	QPSK	1	99	1	0	25.68	27.00
41055	41253	QPSK	1	99	1	0	25.61	27.00
41490	41292	QPSK	1	0	1	99	25.43	27.00

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	26.57	28.00
40185	40383	QPSK	1	99	1	0	26.61	28.00
40620	40818	QPSK	1	99	1	0	26.68	28.00
41055	41253	QPSK	1	99	1	0	26.6	28.00
41490	41292	QPSK	1	0	1	99	26.33	28.00

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.48	27.00
40185	40383	QPSK	1	99	1	0	25.44	27.00
40620	40818	QPSK	1	99	1	0	25.62	27.00
41055	41253	QPSK	1	99	1	0	25.48	27.00
41490	41292	QPSK	1	0	1	99	25.43	27.00

CA_42C 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		
42190	42388	QPSK	1	99	1	0	23.28	24.00
42590	42788	QPSK	1	99	1	0	23.35	24.00
42990	42792	QPSK	1	0	1	99	23.33	24.00

CA_42C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	22.41	24.00
42590	42788	QPSK	1	99	1	0	22.52	24.00
42990	42792	QPSK	1	0	1	99	22.4	24.00

CA_42C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	21.67	23.00
42590	42788	QPSK	1	99	1	0	21.81	23.00
42990	42792	QPSK	1	0	1	99	21.78	23.00

CA_42C Ant 8								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	23.76	25.00
42590	42788	QPSK	1	99	1	0	23.89	25.00
42990	42792	QPSK	1	0	1	99	23.66	25.00

Reduced Power Mode for EC12

CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	12.29	13.50
132322	132415	QPSK	1	74	1	0	12.33	13.50
132597	132504	QPSK	1	0	1	24	12.26	13.50

CA_66C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	12.27	13.50
132322	132520	QPSK	1	99	1	0	12.34	13.50
132572	132374	QPSK	1	0	1	99	12.20	13.50

CA_66B Ant 3								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	14.03	15.50
132322	132415	QPSK	1	74	1	0	14.15	15.50
132597	132504	QPSK	1	0	1	24	14.13	15.50

CA_66C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	14.07	15.50
132322	132520	QPSK	1	99	1	0	14.19	15.50
132572	132374	QPSK	1	0	1	99	14.06	15.50

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.23	24.00
132322	132415	QPSK	1	74	1	0	22.26	24.00
132597	132504	QPSK	1	0	1	24	22.20	24.00

CA_66C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.28	24.00
132322	132520	QPSK	1	99	1	0	22.34	24.00
132572	132374	QPSK	1	0	1	99	22.31	24.00

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.18	24.00
132322	132415	QPSK	1	74	1	0	22.29	24.00
132597	132504	QPSK	1	0	1	24	22.25	24.00

CA_66C 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		
132072	132270	QPSK	1	99	1	0	22.18	24.00
132322	132520	QPSK	1	99	1	0	22.33	24.00
132572	132374	QPSK	1	0	1	99	22.25	24.00

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	14.6	15.50
40185	40383	QPSK	1	99	1	0	14.58	15.50
40620	40818	QPSK	1	99	1	0	14.69	15.50
41055	41253	QPSK	1	99	1	0	14.67	15.50
41490	41292	QPSK	1	0	1	99	14.55	15.50

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	15.69	17.10
40185	40383	QPSK	1	99	1	0	15.75	17.10
40620	40818	QPSK	1	99	1	0	15.77	17.10
41055	41253	QPSK	1	99	1	0	15.76	17.10
41490	41292	QPSK	1	0	1	99	15.69	17.10

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.96	18.70
40185	40383	QPSK	1	99	1	0	17.89	18.70
40620	40818	QPSK	1	99	1	0	18	18.70
41055	41253	QPSK	1	99	1	0	17.95	18.70
41490	41292	QPSK	1	0	1	99	17.9	18.70

CA_41C HPUE Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.16	20.30
40185	40383	QPSK	1	99	1	0	19.1	20.30
40620	40818	QPSK	1	99	1	0	19.22	20.30
41055	41253	QPSK	1	99	1	0	19.13	20.30
41490	41292	QPSK	1	0	1	99	19.08	20.30

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.09	25.00
40185	40383	QPSK	1	99	1	0	24.17	25.00
40620	40818	QPSK	1	99	1	0	24.23	25.00
41055	41253	QPSK	1	99	1	0	24.11	25.00
41490	41292	QPSK	1	0	1	99	23.87	25.00

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	26.57	28.00
40185	40383	QPSK	1	99	1	0	26.61	28.00
40620	40818	QPSK	1	99	1	0	26.68	28.00
41055	41253	QPSK	1	99	1	0	26.6	28.00
41490	41292	QPSK	1	0	1	99	26.33	28.00

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	22.95	25.00
40185	40383	QPSK	1	99	1	0	22.99	25.00
40620	40818	QPSK	1	99	1	0	23.14	25.00
41055	41253	QPSK	1	99	1	0	23.03	25.00
41490	41292	QPSK	1	0	1	99	22.95	25.00

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.48	27.00
40185	40383	QPSK	1	99	1	0	25.44	27.00
40620	40818	QPSK	1	99	1	0	25.62	27.00
41055	41253	QPSK	1	99	1	0	25.48	27.00
41490	41292	QPSK	1	0	1	99	25.43	27.00

CA_42C 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		
42190	42388	QPSK	1	99	1	0	15.42	16.90
42590	42788	QPSK	1	99	1	0	15.49	16.90
42990	42792	QPSK	1	0	1	99	15.37	16.90

CA_42C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	13.96	15.50
42590	42788	QPSK	1	99	1	0	14.08	15.50
42990	42792	QPSK	1	0	1	99	14.02	15.50

CA_42C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	14.35	15.80
42590	42788	QPSK	1	99	1	0	14.46	15.80
42990	42792	QPSK	1	0	1	99	14.33	15.80

CA_42C Ant 8								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	21.91	23.50
42590	42788	QPSK	1	99	1	0	22.01	23.50
42990	42792	QPSK	1	0	1	99	21.91	23.50

Reduced Power Mode for ECIS

CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	15.05	16.20
132322	132415	QPSK	1	74	1	0	15.06	16.20
132597	132504	QPSK	1	0	1	24	15.02	16.20

CA_66C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	15.01	16.20
132322	132520	QPSK	1	99	1	0	15.08	16.20
132572	132374	QPSK	1	0	1	99	15.07	16.20

CA_66B Ant 3								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	19.05	20.30
132322	132415	QPSK	1	74	1	0	19.15	20.30
132597	132504	QPSK	1	0	1	24	19.06	20.30

CA_66C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	19.12	20.30
132322	132520	QPSK	1	99	1	0	19.18	20.30
132572	132374	QPSK	1	0	1	99	19.11	20.30

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	20.60	22.00
132322	132415	QPSK	1	74	1	0	20.61	22.00
132597	132504	QPSK	1	0	1	24	20.59	22.00

CA_66C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	20.55	22.00
132322	132520	QPSK	1	99	1	0	20.64	22.00
132572	132374	QPSK	1	0	1	99	20.58	22.00

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	19.82	21.10
132322	132415	QPSK	1	74	1	0	19.97	21.10
132597	132504	QPSK	1	0	1	24	19.90	21.10

CA_66C 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		
132072	132270	QPSK	1	99	1	0	19.79	21.10
132322	132520	QPSK	1	99	1	0	19.99	21.10
132572	132374	QPSK	1	0	1	99	19.93	21.10

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18	18.90
40185	40383	QPSK	1	99	1	0	18.03	18.90
40620	40818	QPSK	1	99	1	0	18.1	18.90
41055	41253	QPSK	1	99	1	0	18.02	18.90
41490	41292	QPSK	1	0	1	99	18.08	18.90

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.51	21.40
40185	40383	QPSK	1	99	1	0	20.4	21.40
40620	40818	QPSK	1	99	1	0	20.6	21.40
41055	41253	QPSK	1	99	1	0	20.54	21.40
41490	41292	QPSK	1	0	1	99	20.5	21.40

CA_41C Ant 0								
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	22.07	23.20
40185	40383	QPSK	1	99	1	0	22.02	23.20
40620	40818	QPSK	1	99	1	0	22.21	23.20
41055	41253	QPSK	1	99	1	0	22.15	23.20
41490	41292	QPSK	1	0	1	99	22.11	23.20

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	21.14	22.10
40185	40383	QPSK	1	99	1	0	21.08	22.10
40620	40818	QPSK	1	99	1	0	21.16	22.10
41055	41253	QPSK	1	99	1	0	21.15	22.10
41490	41292	QPSK	1	0	1	99	21.05	22.10

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.18	20.50
40185	40383	QPSK	1	99	1	0	19.14	20.50
40620	40818	QPSK	1	99	1	0	19.19	20.50
41055	41253	QPSK	1	99	1	0	19.15	20.50
41490	41292	QPSK	1	0	1	99	19.16	20.50

CA_41C HPUE Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.71	23.00
40185	40383	QPSK	1	99	1	0	21.7	23.00
40620	40818	QPSK	1	99	1	0	21.75	23.00
41055	41253	QPSK	1	99	1	0	21.68	23.00
41490	41292	QPSK	1	0	1	99	21.74	23.00

CA_41C HPUE Ant 0								
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	23.4	24.80
40185	40383	QPSK	1	99	1	0	23.39	24.80
40620	40818	QPSK	1	99	1	0	23.46	24.80
41055	41253	QPSK	1	99	1	0	23.44	24.80
41490	41292	QPSK	1	0	1	99	23.41	24.80

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.4	23.70
40185	40383	QPSK	1	99	1	0	22.37	23.70
40620	40818	QPSK	1	99	1	0	22.42	23.70
41055	41253	QPSK	1	99	1	0	22.39	23.70
41490	41292	QPSK	1	0	1	99	22.38	23.70

CA_42C 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		
42190	42388	QPSK	1	99	1	0	17.39	18.90
42590	42788	QPSK	1	99	1	0	17.4	18.90
42990	42792	QPSK	1	0	1	99	17.32	18.90

CA_42C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	15.99	17.60
42590	42788	QPSK	1	99	1	0	16.01	17.60
42990	42792	QPSK	1	0	1	99	15.98	17.60

CA_42C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	21.24	22.80
42590	42788	QPSK	1	99	1	0	21.31	22.80
42990	42792	QPSK	1	0	1	99	21.24	22.80

CA_42C Ant 8								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	21.95	23.30
42590	42788	QPSK	1	99	1	0	21.96	23.30
42990	42792	QPSK	1	0	1	99	21.84	23.30

Reduced Power Mode for ECIS

CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	17.99	19.20
132322	132415	QPSK	1	74	1	0	18.03	19.20
132597	132504	QPSK	1	0	1	24	17.99	19.20

CA_66C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	17.99	19.20
132322	132520	QPSK	1	99	1	0	18.05	19.20
132572	132374	QPSK	1	0	1	99	18.01	19.20

CA_66B Ant 3								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.19	24.00
132322	132415	QPSK	1	74	1	0	22.25	24.00
132597	132504	QPSK	1	0	1	24	22.19	24.00

CA_66C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.12	24.00
132322	132520	QPSK	1	99	1	0	22.29	24.00
132572	132374	QPSK	1	0	1	99	22.20	24.00

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	19.49	21.30
132322	132415	QPSK	1	74	1	0	19.57	21.30
132597	132504	QPSK	1	0	1	24	19.51	21.30

CA_66C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	19.51	21.30
132322	132520	QPSK	1	99	1	0	19.60	21.30
132572	132374	QPSK	1	0	1	99	19.52	21.30

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	18.59	19.90
132322	132415	QPSK	1	74	1	0	18.64	19.90
132597	132504	QPSK	1	0	1	24	18.55	19.90

CA_66C 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		
132072	132270	QPSK	1	99	1	0	18.59	19.90
132322	132520	QPSK	1	99	1	0	18.66	19.90
132572	132374	QPSK	1	0	1	99	18.61	19.90

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.56	20.80
40185	40383	QPSK	1	99	1	0	19.54	20.80
40620	40818	QPSK	1	99	1	0	19.64	20.80
41055	41253	QPSK	1	99	1	0	19.58	20.80
41490	41292	QPSK	1	0	1	99	19.57	20.80

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.7	22.90
40185	40383	QPSK	1	99	1	0	21.72	22.90
40620	40818	QPSK	1	99	1	0	21.85	22.90
41055	41253	QPSK	1	99	1	0	21.75	22.90
41490	41292	QPSK	1	0	1	99	21.74	22.90

CA_41C Ant 0								
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	22.77	23.90
40185	40383	QPSK	1	99	1	0	22.78	23.90
40620	40818	QPSK	1	99	1	0	22.85	23.90
41055	41253	QPSK	1	99	1	0	22.77	23.90
41490	41292	QPSK	1	0	1	99	22.74	23.90

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	22.07	23.60
40185	40383	QPSK	1	99	1	0	22.16	23.60
40620	40818	QPSK	1	99	1	0	22.19	23.60
41055	41253	QPSK	1	99	1	0	22.18	23.60
41490	41292	QPSK	1	0	1	99	22.08	23.60

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.82	22.40
40185	40383	QPSK	1	99	1	0	20.78	22.40
40620	40818	QPSK	1	99	1	0	20.88	22.40
41055	41253	QPSK	1	99	1	0	20.84	22.40
41490	41292	QPSK	1	0	1	99	20.83	22.40

CA_41C HPUE Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.98	24.50
40185	40383	QPSK	1	99	1	0	22.94	24.50
40620	40818	QPSK	1	99	1	0	23.06	24.50
41055	41253	QPSK	1	99	1	0	23	24.50
41490	41292	QPSK	1	0	1	99	22.98	24.50

CA_41C HPUE Ant 0								
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	23.99	25.50
40185	40383	QPSK	1	99	1	0	24.05	25.50
40620	40818	QPSK	1	99	1	0	24.08	25.50
41055	41253	QPSK	1	99	1	0	23.95	25.50
41490	41292	QPSK	1	0	1	99	24.02	25.50

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.57	25.20
40185	40383	QPSK	1	99	1	0	23.67	25.20
40620	40818	QPSK	1	99	1	0	23.72	25.20
41055	41253	QPSK	1	99	1	0	23.61	25.20
41490	41292	QPSK	1	0	1	99	23.6	25.20

CA_42C 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		
42190	42388	QPSK	1	99	1	0	17.34	18.90
42590	42788	QPSK	1	99	1	0	17.44	18.90
42990	42792	QPSK	1	0	1	99	17.43	18.90

CA_42C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	20	21.70
42590	42788	QPSK	1	99	1	0	20.04	21.70
42990	42792	QPSK	1	0	1	99	19.98	21.70

CA_42C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	18.28	19.90
42590	42788	QPSK	1	99	1	0	18.4	19.90
42990	42792	QPSK	1	0	1	99	18.34	19.90

CA_42C Ant 8								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	23.76	25.00
42590	42788	QPSK	1	99	1	0	23.88	25.00
42990	42792	QPSK	1	0	1	99	23.66	25.00

Reduced Power Mode for EC16

CA_66B Ant 2							
Combination 15MHz+5MHz (75RB+25RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132047	132140	QPSK	1	74	1	0	18.48
132322	132415	QPSK	1	74	1	0	18.53
132597	132504	QPSK	1	0	1	24	18.41

CA_66C Ant 2							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132072	132270	QPSK	1	99	1	0	18.49
132322	132520	QPSK	1	99	1	0	18.59
132572	132374	QPSK	1	0	1	99	18.41

CA_66B Ant 3							
Combination 15MHz+5MHz (75RB+25RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132047	132140	QPSK	1	74	1	0	19.08
132322	132415	QPSK	1	74	1	0	19.11
132597	132504	QPSK	1	0	1	24	19.06

CA_66C Ant 3							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132072	132270	QPSK	1	99	1	0	19.09
132322	132520	QPSK	1	99	1	0	19.15
132572	132374	QPSK	1	0	1	99	19.04

CA_66B Ant 0							
Combination 15MHz+5MHz (75RB+25RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132047	132140	QPSK	1	74	1	0	22.24
132322	132415	QPSK	1	74	1	0	22.28
132597	132504	QPSK	1	0	1	24	22.20

CA_66C Ant 0							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132072	132270	QPSK	1	99	1	0	22.24
132322	132520	QPSK	1	99	1	0	22.33
132572	132374	QPSK	1	0	1	99	22.25

CA_66B Ant 1							
Combination 15MHz+5MHz (75RB+25RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132047	132140	QPSK	1	74	1	0	21.75
132322	132415	QPSK	1	74	1	0	21.83
132597	132504	QPSK	1	0	1	24	21.77

CA_66C Ant 1							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132072	132270	QPSK	1	99	1	0	21.71
132322	132520	QPSK	1	99	1	0	21.87
132572	132374	QPSK	1	0	1	99	21.82

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.34	23.00
40185	40383	QPSK	1	99	1	0	21.45	23.00
40620	40818	QPSK	1	99	1	0	21.51	23.00
41055	41253	QPSK	1	99	1	0	21.35	23.00
41490	41292	QPSK	1	0	1	99	21.33	23.00

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.22	22.20
40185	40383	QPSK	1	99	1	0	20.37	22.20
40620	40818	QPSK	1	99	1	0	20.4	22.20
41055	41253	QPSK	1	99	1	0	20.32	22.20
41490	41292	QPSK	1	0	1	99	20.31	22.20

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.09	25.00
40185	40383	QPSK	1	99	1	0	24.17	25.00
40620	40818	QPSK	1	99	1	0	24.23	25.00
41055	41253	QPSK	1	99	1	0	24.11	25.00
41490	41292	QPSK	1	0	1	99	23.87	25.00

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	22.95	25.00
40185	40383	QPSK	1	99	1	0	22.99	25.00
40620	40818	QPSK	1	99	1	0	23.14	25.00
41055	41253	QPSK	1	99	1	0	23.03	25.00
41490	41292	QPSK	1	0	1	99	22.95	25.00

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.77	24.60
40185	40383	QPSK	1	99	1	0	23.76	24.60
40620	40818	QPSK	1	99	1	0	23.8	24.60
41055	41253	QPSK	1	99	1	0	23.72	24.60
41490	41292	QPSK	1	0	1	99	23.64	24.60

CA_41C HPUE Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.52	23.80
40185	40383	QPSK	1	99	1	0	22.55	23.80
40620	40818	QPSK	1	99	1	0	22.73	23.80
41055	41253	QPSK	1	99	1	0	22.68	23.80
41490	41292	QPSK	1	0	1	99	22.62	23.80

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	26.57	28.00
40185	40383	QPSK	1	99	1	0	26.61	28.00
40620	40818	QPSK	1	99	1	0	26.68	28.00
41055	41253	QPSK	1	99	1	0	26.6	28.00
41490	41292	QPSK	1	0	1	99	26.33	28.00

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.48	27.00
40185	40383	QPSK	1	99	1	0	25.44	27.00
40620	40818	QPSK	1	99	1	0	25.62	27.00
41055	41253	QPSK	1	99	1	0	25.48	27.00
41490	41292	QPSK	1	0	1	99	25.43	27.00

CA_42C 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		
42190	42388	QPSK	1	99	1	0	20.34	21.90
42590	42788	QPSK	1	99	1	0	20.39	21.90
42990	42792	QPSK	1	0	1	99	20.36	21.90

CA_42C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	22.41	24.00
42590	42788	QPSK	1	99	1	0	22.52	24.00
42990	42792	QPSK	1	0	1	99	22.4	24.00

CA_42C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	17.52	18.70
42590	42788	QPSK	1	99	1	0	17.6	18.70
42990	42792	QPSK	1	0	1	99	17.42	18.70

CA_42C Ant 8								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	23.76	25.00
42590	42788	QPSK	1	99	1	0	23.88	25.00
42990	42792	QPSK	1	0	1	99	23.66	25.00

Reduced Power Mode for ECIS

CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	9.74	11.30
132322	132415	QPSK	1	74	1	0	10.08	11.30
132597	132504	QPSK	1	0	1	24	10.03	11.30

CA_66C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	9.78	11.30
132322	132520	QPSK	1	99	1	0	10.10	11.30
132572	132374	QPSK	1	0	1	99	10.03	11.30

CA_66B Ant 3								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	17.00	18.30
132322	132415	QPSK	1	74	1	0	17.10	18.30
132597	132504	QPSK	1	0	1	24	17.05	18.30

CA_66C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	17.00	18.30
132322	132520	QPSK	1	99	1	0	17.12	18.30
132572	132374	QPSK	1	0	1	99	17.03	18.30

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	21.19	22.50
132322	132415	QPSK	1	74	1	0	21.31	22.50
132597	132504	QPSK	1	0	1	24	21.30	22.50

CA_66C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	21.13	22.50
132322	132520	QPSK	1	99	1	0	21.36	22.50
132572	132374	QPSK	1	0	1	99	21.25	22.50

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	18.43	19.80
132322	132415	QPSK	1	74	1	0	18.65	19.80
132597	132504	QPSK	1	0	1	24	18.61	19.80

CA_66C 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		
132072	132270	QPSK	1	99	1	0	18.53	19.80
132322	132520	QPSK	1	99	1	0	18.69	19.80
132572	132374	QPSK	1	0	1	99	18.59	19.80

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	16.45	17.30
40185	40383	QPSK	1	99	1	0	16.47	17.30
40620	40818	QPSK	1	99	1	0	16.62	17.30
41055	41253	QPSK	1	99	1	0	16.54	17.30
41490	41292	QPSK	1	0	1	99	16.47	17.30

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	15.78	16.90
40185	40383	QPSK	1	99	1	0	15.84	16.90
40620	40818	QPSK	1	99	1	0	15.87	16.90
41055	41253	QPSK	1	99	1	0	15.79	16.90
41490	41292	QPSK	1	0	1	99	15.74	16.90

CA_41C Ant 0								
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	21.49	22.60
40185	40383	QPSK	1	99	1	0	21.62	22.60
40620	40818	QPSK	1	99	1	0	21.7	22.60
41055	41253	QPSK	1	99	1	0	21.62	22.60
41490	41292	QPSK	1	0	1	99	21.3	22.60

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	19.71	20.90
40185	40383	QPSK	1	99	1	0	19.71	20.90
40620	40818	QPSK	1	99	1	0	19.84	20.90
41055	41253	QPSK	1	99	1	0	19.74	20.90
41490	41292	QPSK	1	0	1	99	19.7	20.90

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.62	18.90
40185	40383	QPSK	1	99	1	0	17.78	18.90
40620	40818	QPSK	1	99	1	0	17.86	18.90
41055	41253	QPSK	1	99	1	0	17.73	18.90
41490	41292	QPSK	1	0	1	99	17.71	18.90

CA_41C HPUE Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.03	18.50
40185	40383	QPSK	1	99	1	0	16.98	18.50
40620	40818	QPSK	1	99	1	0	17.15	18.50
41055	41253	QPSK	1	99	1	0	17	18.50
41490	41292	QPSK	1	0	1	99	17.06	18.50

CA_41C HPUE Ant 0								
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	22.83	24.20
40185	40383	QPSK	1	99	1	0	22.83	24.20
40620	40818	QPSK	1	99	1	0	22.87	24.20
41055	41253	QPSK	1	99	1	0	22.81	24.20
41490	41292	QPSK	1	0	1	99	22.81	24.20

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.93	22.50
40185	40383	QPSK	1	99	1	0	21	22.50
40620	40818	QPSK	1	99	1	0	21.06	22.50
41055	41253	QPSK	1	99	1	0	20.98	22.50
41490	41292	QPSK	1	0	1	99	20.96	22.50

CA_42C 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		
42190	42388	QPSK	1	99	1	0	12.89	14.20
42590	42788	QPSK	1	99	1	0	12.94	14.20
42990	42792	QPSK	1	0	1	99	12.87	14.20

CA_42C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	13.5	14.80
42590	42788	QPSK	1	99	1	0	13.56	14.80
42990	42792	QPSK	1	0	1	99	13.46	14.80

CA_42C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	14.81	16.00
42590	42788	QPSK	1	99	1	0	14.84	16.00
42990	42792	QPSK	1	0	1	99	14.79	16.00

CA_42C Ant 8								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	20.44	21.70
42590	42788	QPSK	1	99	1	0	20.46	21.70
42990	42792	QPSK	1	0	1	99	20.33	21.70

Reduced Power Mode for EC10

CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	12.21	13.80
132322	132415	QPSK	1	74	1	0	12.39	13.80
132597	132504	QPSK	1	0	1	24	12.37	13.80

CA_66C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	12.20	13.80
132322	132520	QPSK	1	99	1	0	12.48	13.80
132572	132374	QPSK	1	0	1	99	12.44	13.80

CA_66B Ant 3								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	19.47	21.20
132322	132415	QPSK	1	74	1	0	19.54	21.20
132597	132504	QPSK	1	0	1	24	19.46	21.20

CA_66C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	19.52	21.20
132322	132520	QPSK	1	99	1	0	19.59	21.20
132572	132374	QPSK	1	0	1	99	19.51	21.20

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	15.98	17.30
132322	132415	QPSK	1	74	1	0	16.11	17.30
132597	132504	QPSK	1	0	1	24	16.07	17.30

CA_66C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	16.04	17.30
132322	132520	QPSK	1	99	1	0	16.15	17.30
132572	132374	QPSK	1	0	1	99	16.03	17.30

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	16.48	17.80
132322	132415	QPSK	1	74	1	0	16.57	17.80
132597	132504	QPSK	1	0	1	24	16.55	17.80

CA_66C 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		
132072	132270	QPSK	1	99	1	0	16.50	17.80
132322	132520	QPSK	1	99	1	0	16.61	17.80
132572	132374	QPSK	1	0	1	99	16.58	17.80

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	14.9	16.20
40185	40383	QPSK	1	99	1	0	14.87	16.20
40620	40818	QPSK	1	99	1	0	15.09	16.20
41055	41253	QPSK	1	99	1	0	15.03	16.20
41490	41292	QPSK	1	0	1	99	14.91	16.20

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.56	18.80
40185	40383	QPSK	1	99	1	0	17.49	18.80
40620	40818	QPSK	1	99	1	0	17.65	18.80
41055	41253	QPSK	1	99	1	0	17.52	18.80
41490	41292	QPSK	1	0	1	99	17.36	18.80

CA_41C Ant 0								
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	21.99	22.80
40185	40383	QPSK	1	99	1	0	22.16	22.80
40620	40818	QPSK	1	99	1	0	22.17	22.80
41055	41253	QPSK	1	99	1	0	22.15	22.80
41490	41292	QPSK	1	0	1	99	21.78	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	18.95	20.40
40185	40383	QPSK	1	99	1	0	18.99	20.40
40620	40818	QPSK	1	99	1	0	19.01	20.40
41055	41253	QPSK	1	99	1	0	18.95	20.40
41490	41292	QPSK	1	0	1	99	18.88	20.40

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	16.15	17.80
40185	40383	QPSK	1	99	1	0	16.15	17.80
40620	40818	QPSK	1	99	1	0	16.18	17.80
41055	41253	QPSK	1	99	1	0	16.13	17.80
41490	41292	QPSK	1	0	1	99	16.1	17.80

CA_41C HPUE Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.8	20.40
40185	40383	QPSK	1	99	1	0	18.72	20.40
40620	40818	QPSK	1	99	1	0	18.83	20.40
41055	41253	QPSK	1	99	1	0	18.77	20.40
41490	41292	QPSK	1	0	1	99	18.76	20.40

CA_41C HPUE Ant 0								
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	23.3	24.40
40185	40383	QPSK	1	99	1	0	23.39	24.40
40620	40818	QPSK	1	99	1	0	23.4	24.40
41055	41253	QPSK	1	99	1	0	23.36	24.40
41490	41292	QPSK	1	0	1	99	23.29	24.40

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.98	22.00
40185	40383	QPSK	1	99	1	0	19.93	22.00
40620	40818	QPSK	1	99	1	0	20.1	22.00
41055	41253	QPSK	1	99	1	0	20.01	22.00
41490	41292	QPSK	1	0	1	99	20.03	22.00

CA_42C 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		
42190	42388	QPSK	1	99	1	0	17.37	18.60
42590	42788	QPSK	1	99	1	0	17.47	18.60
42990	42792	QPSK	1	0	1	99	17.34	18.60

CA_42C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	12.49	14.00
42590	42788	QPSK	1	99	1	0	12.65	14.00
42990	42792	QPSK	1	0	1	99	12.51	14.00

CA_42C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	15.49	16.80
42590	42788	QPSK	1	99	1	0	15.45	16.80
42990	42792	QPSK	1	0	1	99	15.41	16.80

CA_42C Ant 8								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	19.86	21.20
42590	42788	QPSK	1	99	1	0	20.02	21.20
42990	42792	QPSK	1	0	1	99	19.82	21.20