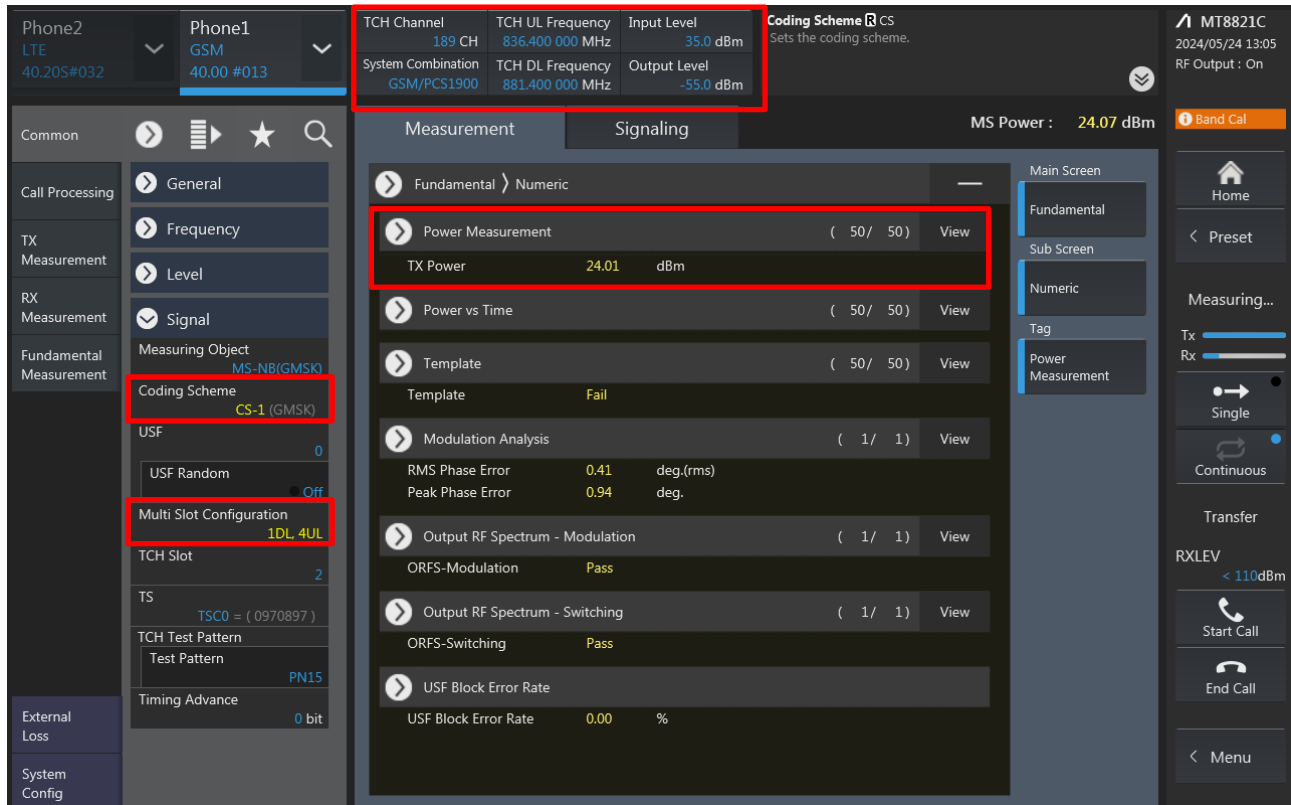


Power measurement connection diagram:

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

<GSM>



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

- Top Bar:** Shows Phone2 (LTE, 40.205#032) and Phone1 (GSM, 40.00 #013). It also displays TCH Channel (189 CH), TCH UL Frequency (836.400 000 MHz), Input Level (35.0 dBm), TCH DL Frequency (881.400 000 MHz), and Output Level (-55.0 dBm). The Coding Scheme is set to CS.
- Left Sidebar:** Contains navigation options like Common, Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, and External Loss. The 'Fundamental Measurement' section is expanded, showing options for General, Frequency, Level, Signal, and Measuring Object (MS-NB(GMSK)).
- Main Area:** Displays the 'Measurement' tab with a 'Fundamental' sub-tab. The 'Power Measurement' section shows a 'TX Power' of 24.01 dBm. Other sections include 'Power vs Time', 'Template', 'Modulation Analysis', 'Output RF Spectrum - Modulation', 'Output RF Spectrum - Switching', and 'USF Block Error Rate'.
- Right Sidebar:** Shows the 'Main Screen' with options for Fundamental, Sub Screen, Numeric, and Tag. It also displays the 'MS Power' as 24.07 dBm and the 'Band Cal' status as 'On'.

<WCDMA>

The screenshot displays the MT8821C software interface, which is used for configuring and measuring the power of a mobile phone. The interface is divided into several sections:

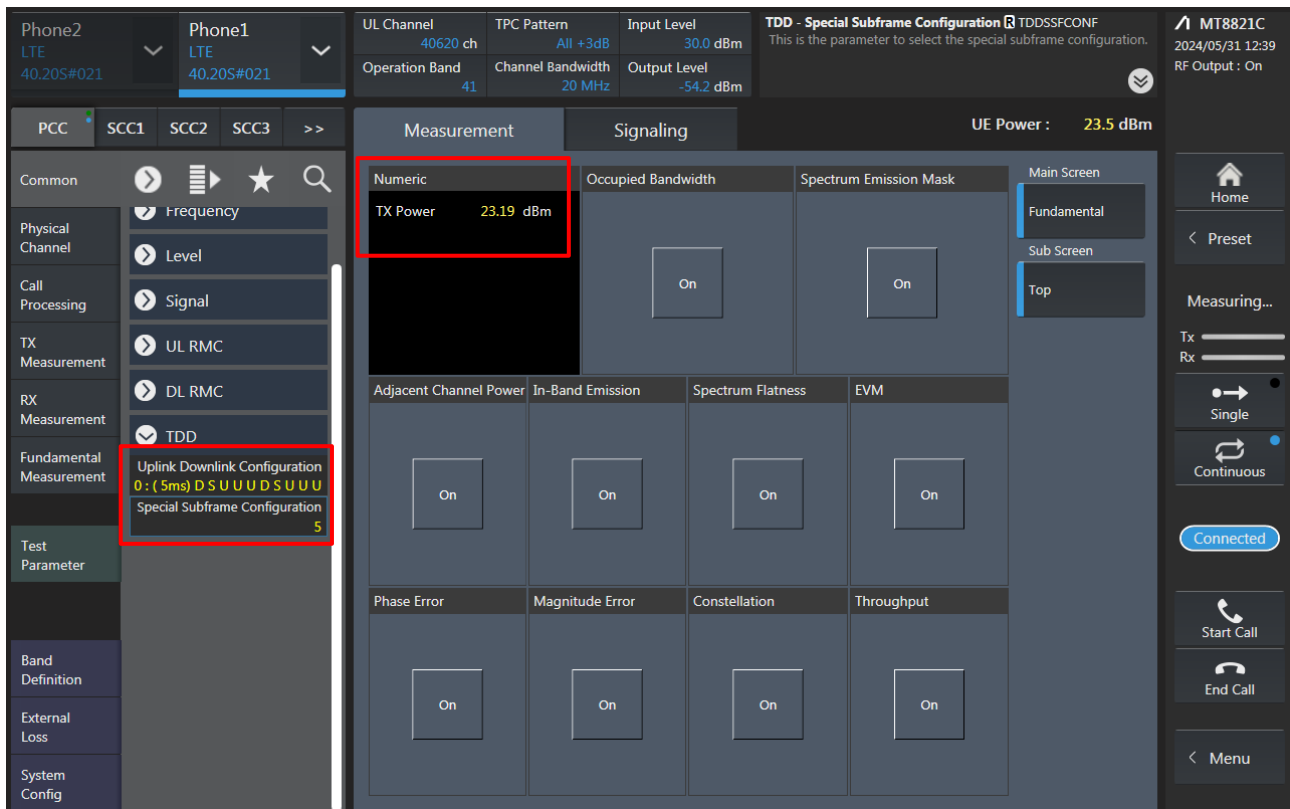
- Top Bar:** Shows the phone model (Phone2), network type (W-CDMA), and various status indicators like signal strength, battery level, and time.
- Left Panel:** Contains navigation buttons for Common, Physical Channel, Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, Connection Setting, Measurement Report, Meas Setup, External Loss, and System Config.
- Main Display Area:**
 - Measurement Section:** Displays various measurement results, including TX Power (23.28 dBm), Frequency Error (Carrier Frequency Error: -0.0002 kHz, Freq. Err: 0.00 ppm), Occupied Bandwidth (OBW: 4.163 MHz), Spectrum Emission Mask (SEM: Pass), Adjacent Channel Power (ACLR(-5MHz): -40.24 dB, ACLR(+5MHz): -42.79 dB), Modulation Analysis (EVM: 5.15 % (rms)), and Peak Code Domain Error (PCDE: -39.86 dB).
 - Power Measurement Screen (Highlighted):** Shows TX Power at 23.28 dBm.
 - Power Control Screen:** Shows 'All 1' under the 'Power Control' section.
- Right Panel:** Contains buttons for Main Screen, Fundamental, Sub Screen, Numeric, Tag, Power Measurement, and a 'Loop Mode 1' indicator.

<LTE>

The screenshot displays the 5G NR Measurement and Signaling interface. The 'Measurement' tab is selected, showing 'TX Power' at 23.01 dBm. The 'Signaling' tab shows various measurement results. The 'Uplink Downlink Configuration' is set to 1: (5ms) D S U U D D S U U D, and the 'Special Subframe Configuration' is set to 4. The 'UE Power' is 23.4 dBm.

Measurement	Signaling
Numeric	Occupied Bandwidth
TX Power: 23.01 dBm	Spectrum Emission Mask
	Main Screen
	Fundamental
	Sub Screen
	Top
Adjacent Channel Power	In-Band Emission
Spectrum Flatness	EVM
Phase Error	Magnitude Error
Constellation	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

Operation Band 41

Channel Bandwidth 20 MHz

Output Level -54.2 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

UE Power : 23.5 dBm

Measurement

Numeric

TX Power 23.19 dBm

Occupied Bandwidth

Spectrum Emission Mask

Main Screen

Fundamental

Sub Screen

Top

Adjacent Channel Power

In-Band Emission

Spectrum Flatness

EVM

Phase Error

Magnitude Error

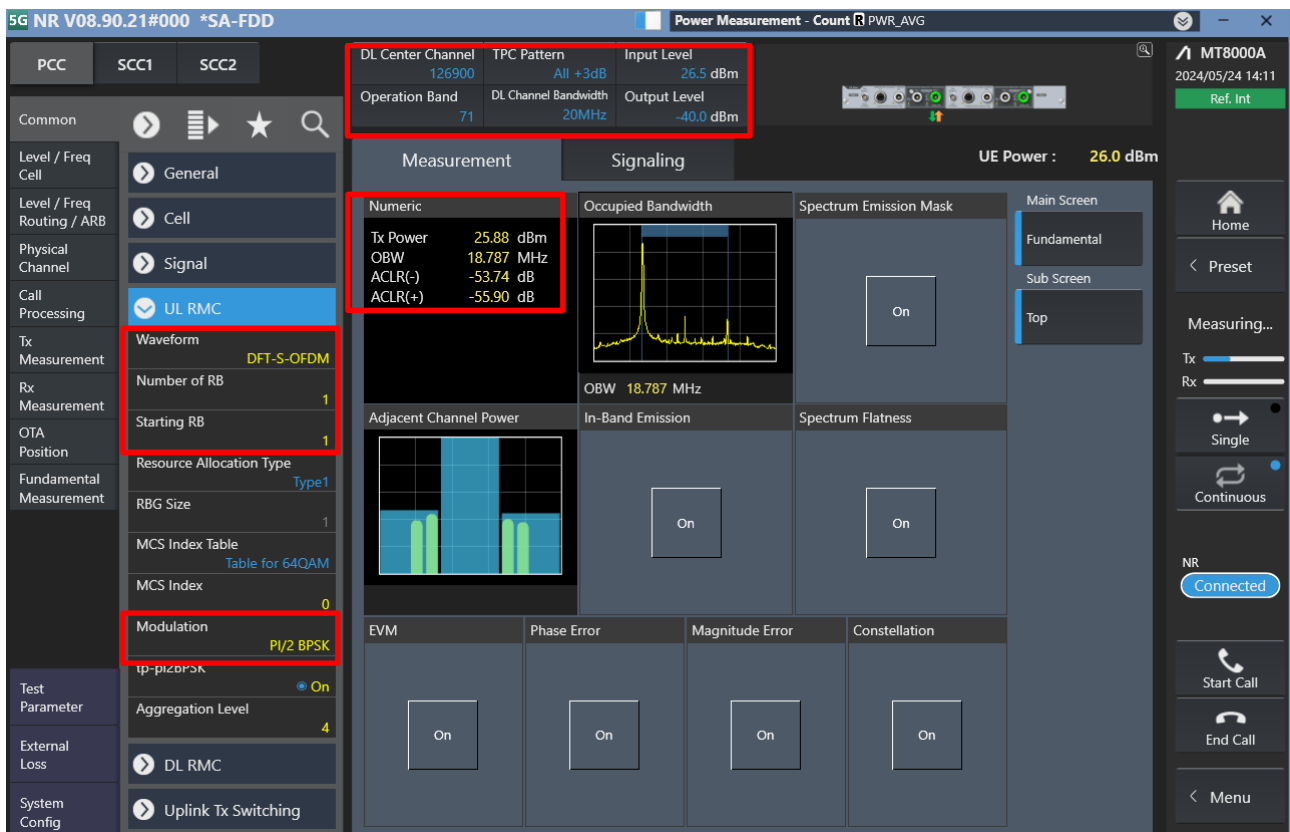
Constellation

Throughput

Uplink Downlink Configuration 0:(5ms)DSUUUSUUU

Special Subframe Configuration 5

<5G NR FR1>



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

Power Measurement - Count PWR_AVG

MT88000A

2024/05/24 14:11

Ref. Int

UE Power : 26.0 dBm

Measurement

Numeric

Tx Power 25.88 dBm

OBW 18.787 MHz

ACLR(-) -53.74 dB

ACLR(+) -55.90 dB

Occupied Bandwidth

Spectrum Emission Mask

Main Screen

Fundamental

Sub Screen

Top

Adjacent Channel Power

In-Band Emission

Spectrum Flatness

EVM

Phase Error

Magnitude Error

Constellation

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

Waveform DFT-S-OFDM

Number of RB 1

Starting RB 1

Resource Allocation Type Type1

RBG Size 1

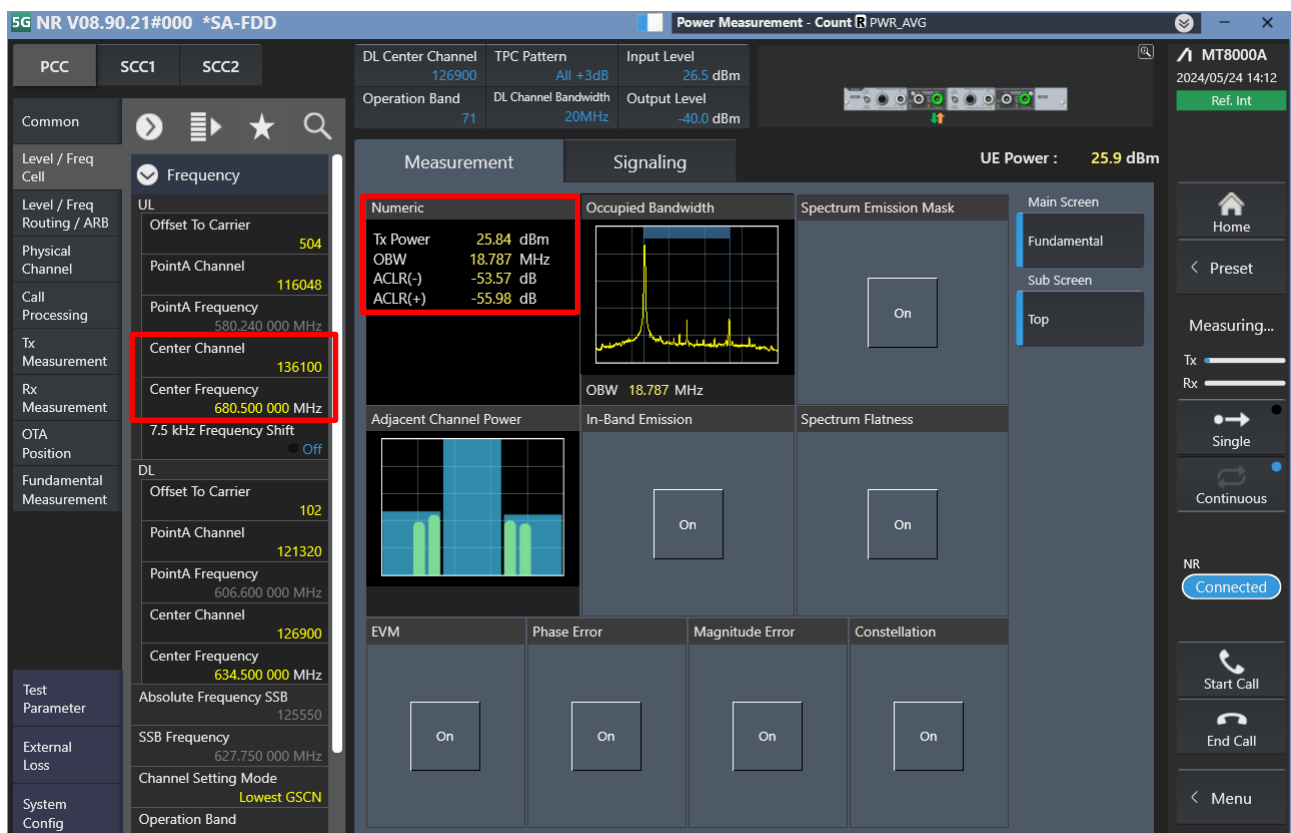
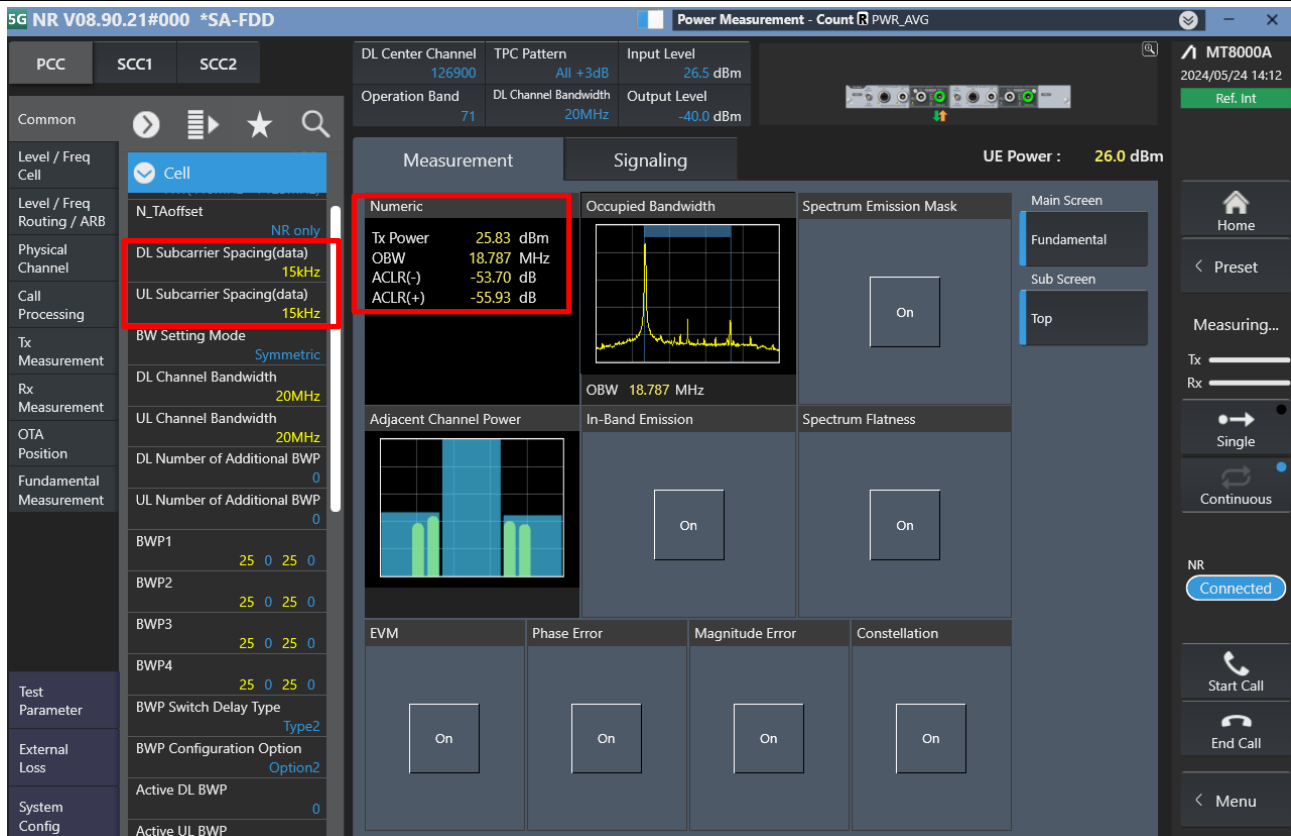
MCS Index Table Table for 64QAM

MCS Index 0

Modulation PI/2 BPSK

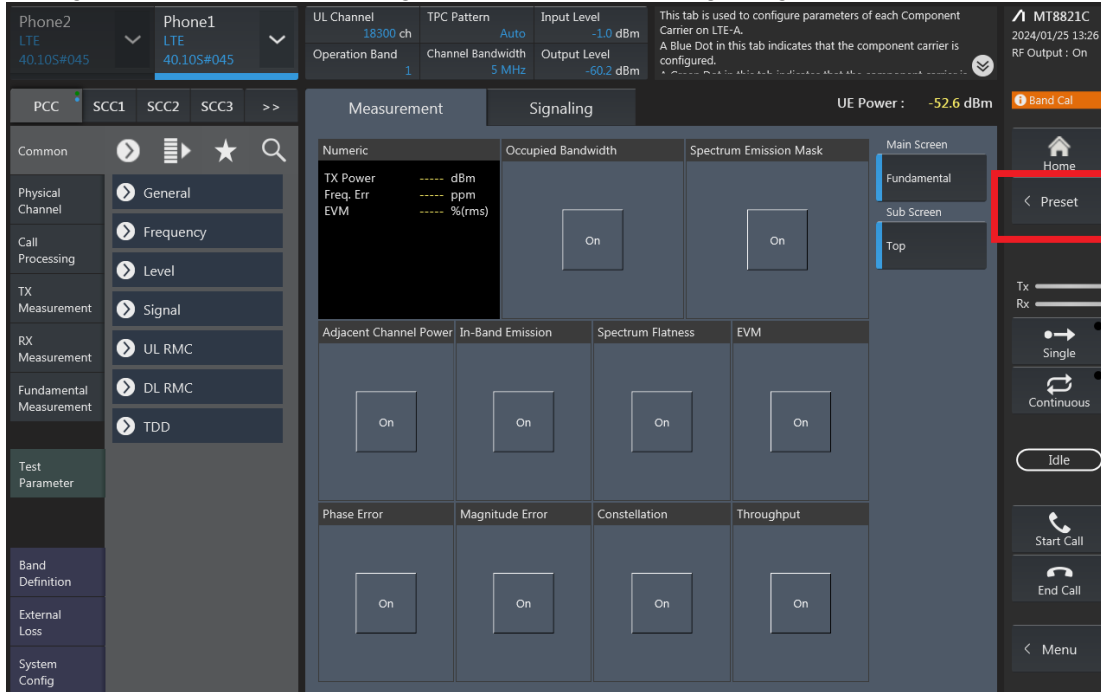
Aggregation Level 4

Uplink Tx Switching



LTE Uplink and Downlink Carrier Aggregation configurations:

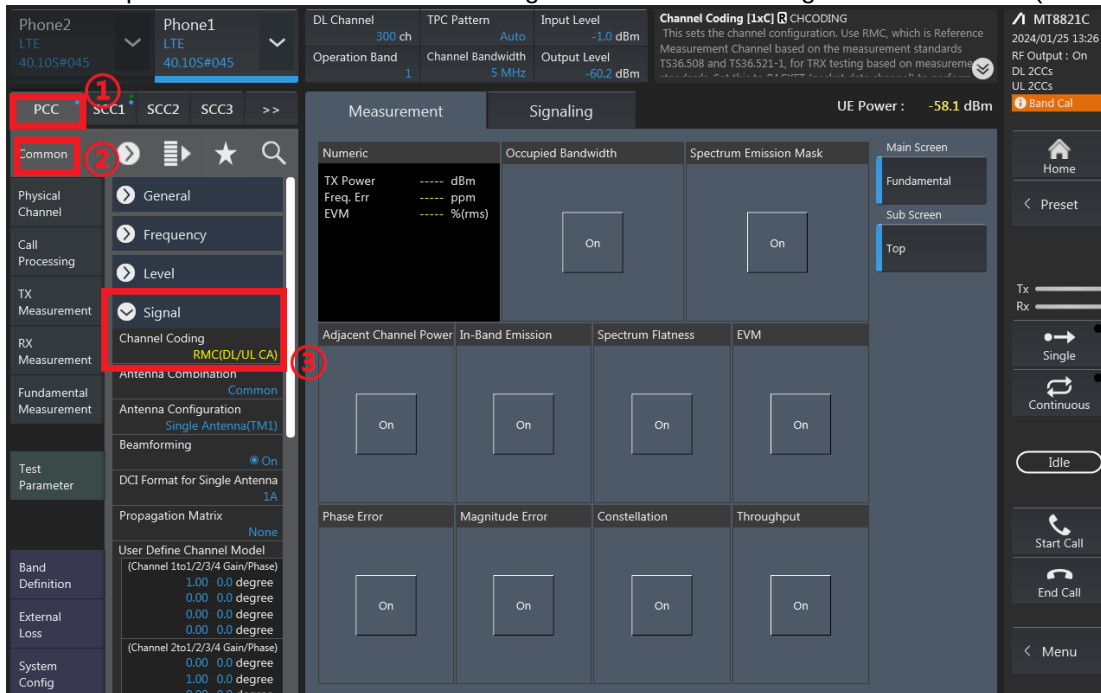
1. Change the Scenario in the Configuration of Phone1 LTE Signaling and Preset.



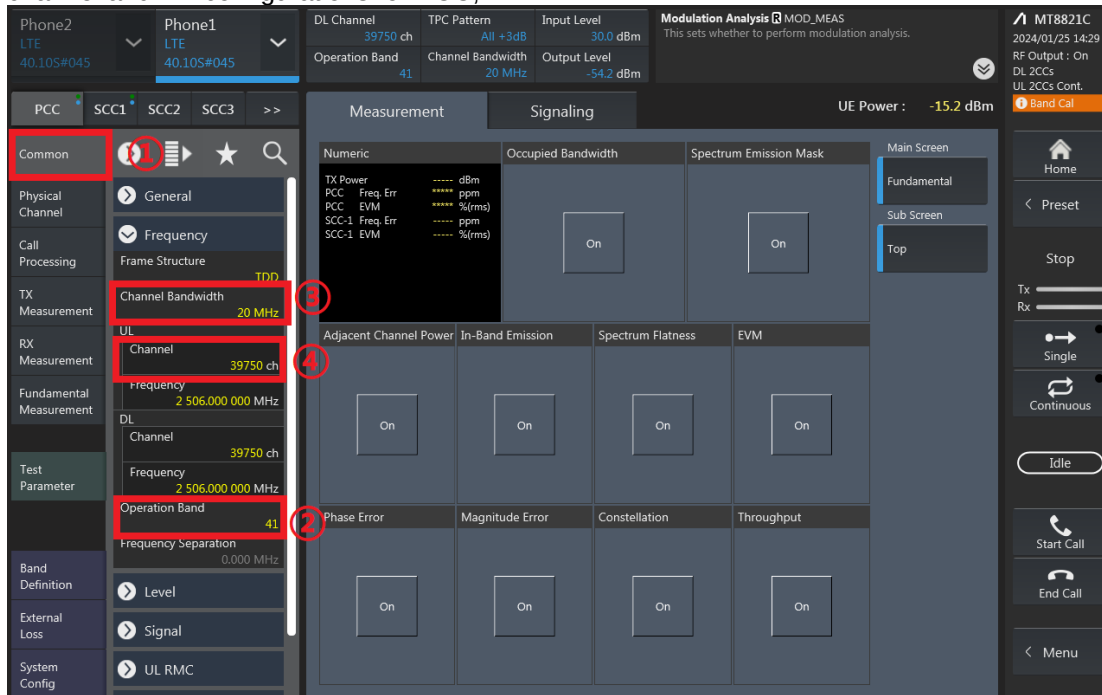
2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.

For example, Uplink Carrier Aggregation:

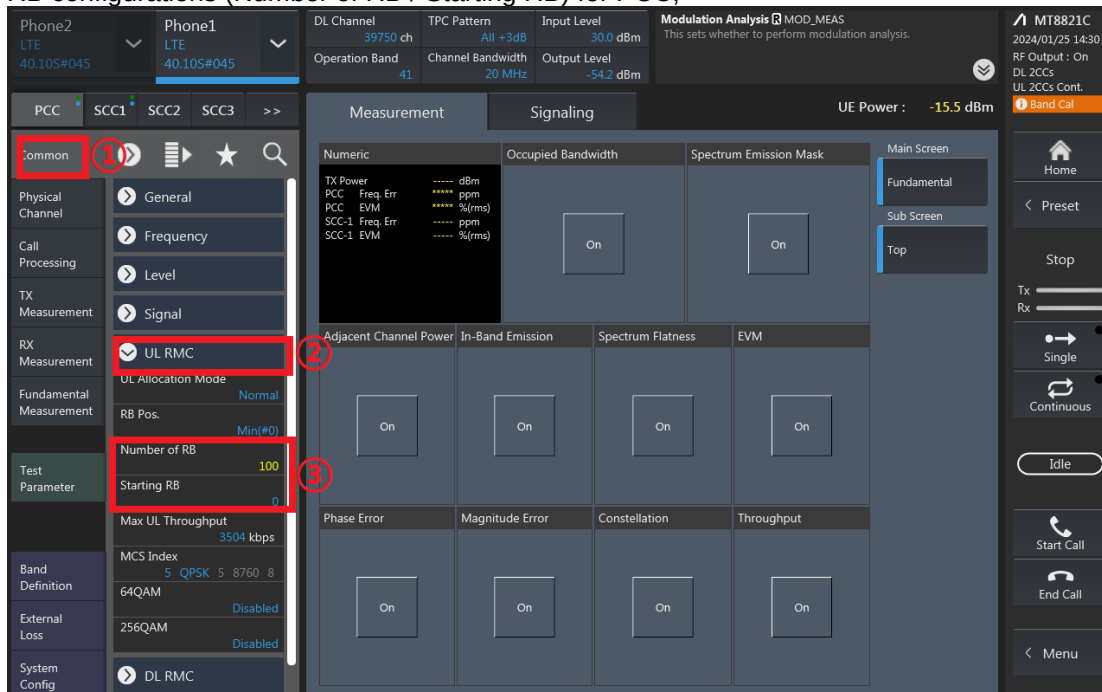
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



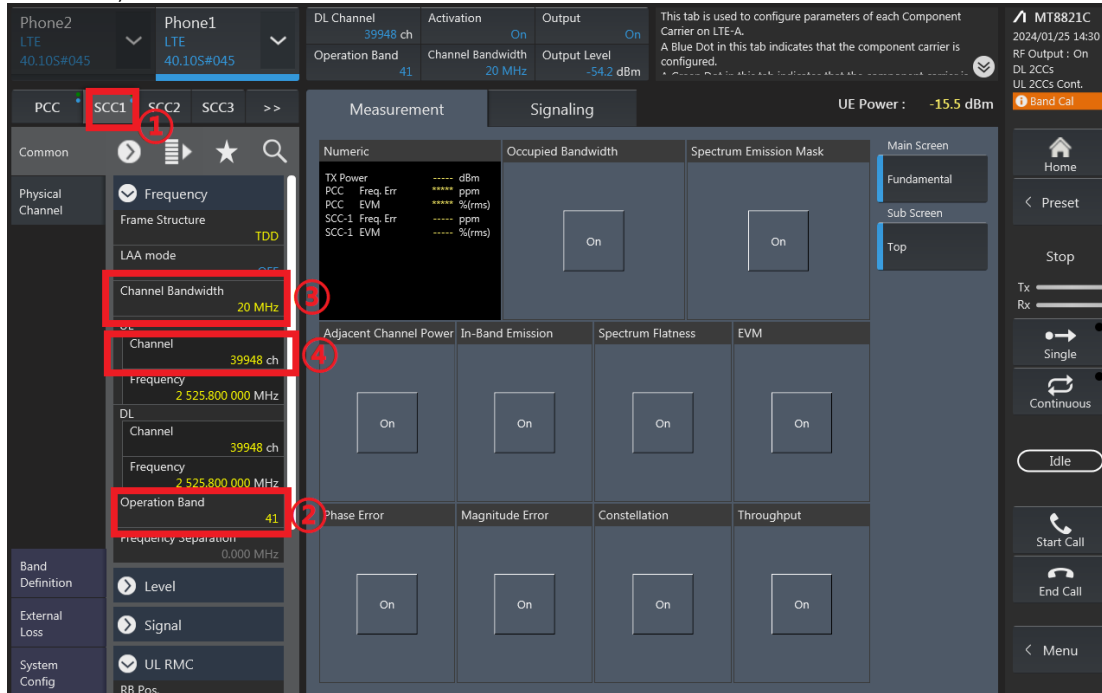
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



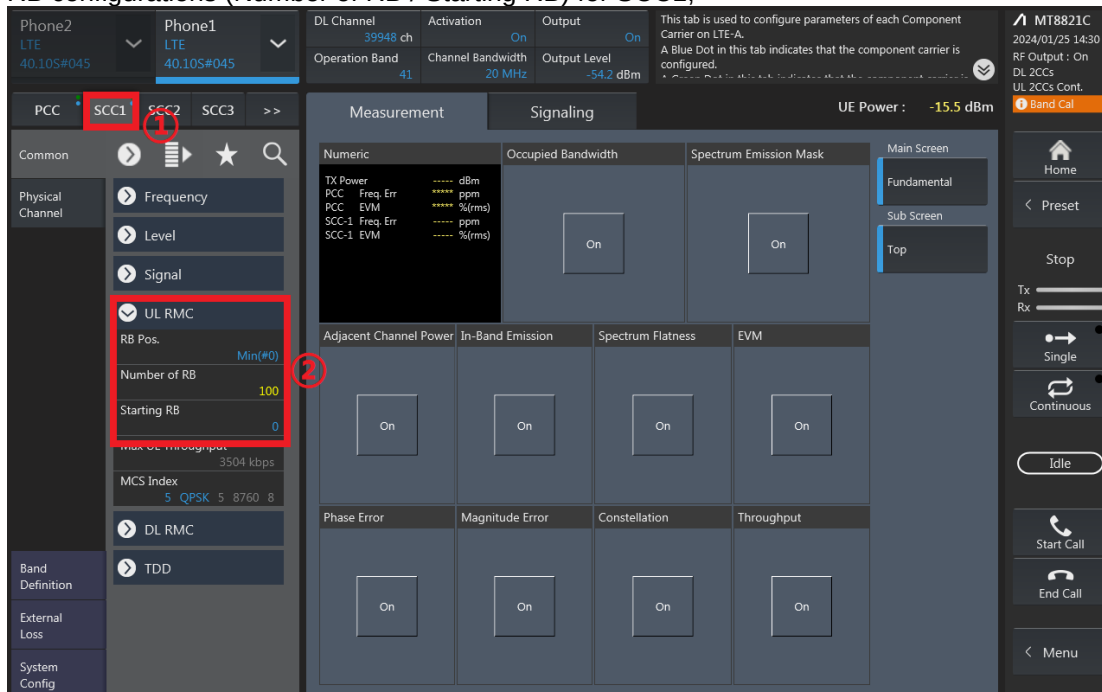
RB configurations (Number of RB / Starting RB) for PCC;



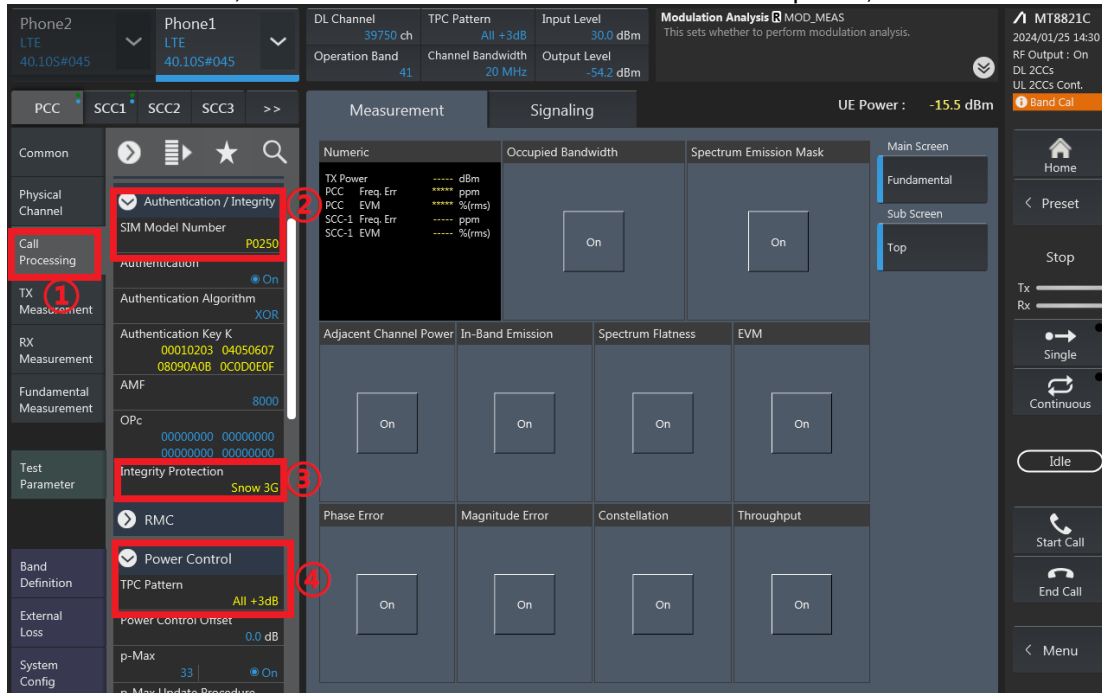
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



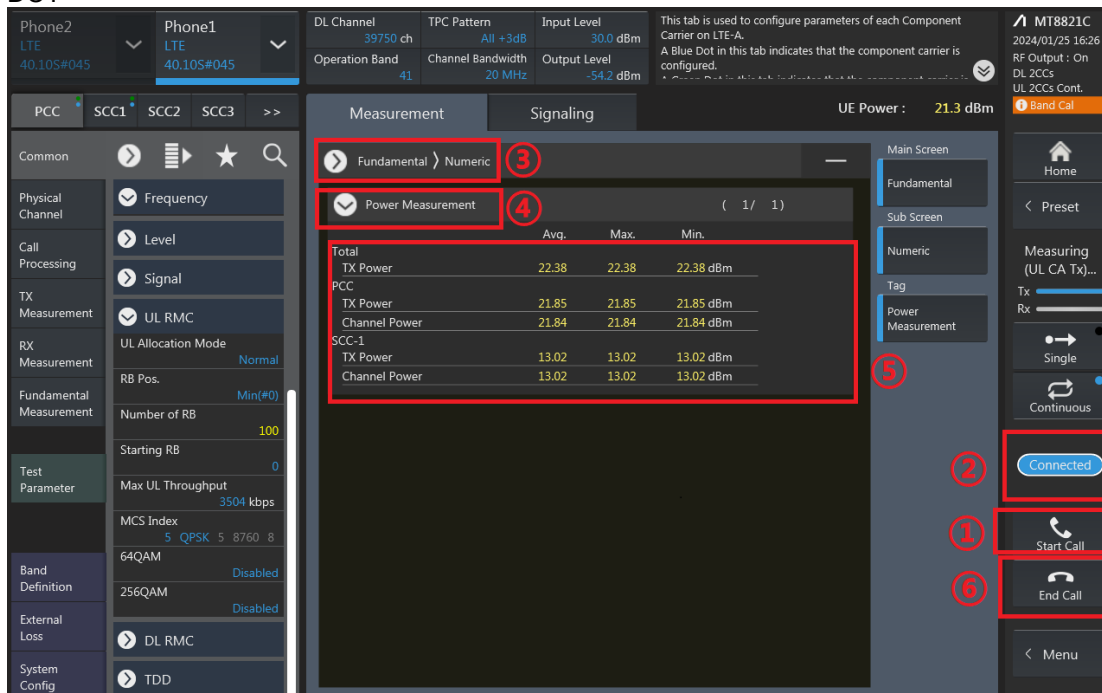
RB configurations (Number of RB / Starting RB) for SCC1;



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



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

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

Uplink CA Power_Full Power

CA_7C 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	
20850	21048	QPSK	1	99	1	0	22.53 24.00
21100	21298	QPSK	1	99	1	0	22.58 24.00
21350	21152	QPSK	1	0	1	99	22.55 24.00

CA_7C 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	
20850	21048	QPSK	1	99	1	0	20.71 22.00
21100	21298	QPSK	1	99	1	0	20.75 22.00
21350	21152	QPSK	1	0	1	99	20.73 22.00

CA_7C Ant 9							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	22.53 24.00
21100	21298	QPSK	1	99	1	0	22.55 24.00
21350	21152	QPSK	1	0	1	99	22.51 24.00

CA_7C 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	
20850	21048	QPSK	1	99	1	0	19.71 21.00
21100	21298	QPSK	1	99	1	0	19.75 21.00
21350	21152	QPSK	1	0	1	99	19.73 21.00

CA_38C 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	
37850	38048	QPSK	1	99	1	0	22.38 24.00
37901	38099	QPSK	1	99	1	0	22.47 24.00
38150	37952	QPSK	1	0	1	99	22.36 24.00

CA_38C 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	
37850	38048	QPSK	1	99	1	0	21.51 23.00
37901	38099	QPSK	1	99	1	0	21.58 23.00
38150	37952	QPSK	1	0	1	99	21.55 23.00

CA_38C Ant 9							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	22.51 24.00
37901	38099	QPSK	1	99	1	0	22.53 24.00
38150	37952	QPSK	1	0	1	99	22.49 24.00

CA_38C 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	
37850	38048	QPSK	1	99	1	0	19.84 21.00
37901	38099	QPSK	1	99	1	0	19.89 21.00
38150	37952	QPSK	1	0	1	99	19.83 21.00

CA_41C 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	
39750	39948	QPSK	1	99	1	0	22.51 24.00
40185	40383	QPSK	1	99	1	0	22.45 24.00
40620	40818	QPSK	1	99	1	0	22.53 24.00
41055	41253	QPSK	1	99	1	0	22.47 24.00
41490	41292	QPSK	1	0	1	99	22.42 24.00

CA_41C 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	
39750	39948	QPSK	1	99	1	0	21.54 23.00
40185	40383	QPSK	1	99	1	0	21.58 23.00
40620	40818	QPSK	1	99	1	0	21.61 23.00
41055	41253	QPSK	1	99	1	0	21.56 23.00
41490	41292	QPSK	1	0	1	99	21.57 23.00

CA_41C Ant 9							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	22.47 24.00
40185	40383	QPSK	1	99	1	0	22.55 24.00
40620	40818	QPSK	1	99	1	0	22.60 24.00
41055	41253	QPSK	1	99	1	0	22.52 24.00
41490	41292	QPSK	1	0	1	99	22.49 24.00

CA_41C 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	
39750	39948	QPSK	1	99	1	0	19.86 21.00
40185	40383	QPSK	1	99	1	0	19.87 21.00
40620	40818	QPSK	1	99	1	0	19.92 21.00
41055	41253	QPSK	1	99	1	0	19.81 21.00
41490	41292	QPSK	1	0	1	99	19.85 21.00

CA_41C HPUE 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	
39750	39948	QPSK	1	99	1	0	25.42
40185	40383	QPSK	1	99	1	0	25.47
40620	40818	QPSK	1	99	1	0	25.52
41055	41253	QPSK	1	99	1	0	25.51
41490	41292	QPSK	1	0	1	99	25.43

CA_41C HPUE 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	
39750	39948	QPSK	1	99	1	0	24.45
40185	40383	QPSK	1	99	1	0	24.53
40620	40818	QPSK	1	99	1	0	24.59
41055	41253	QPSK	1	99	1	0	24.43
41490	41292	QPSK	1	0	1	99	24.47

CA_41C HPUE Ant 9							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	25.45
40185	40383	QPSK	1	99	1	0	25.49
40620	40818	QPSK	1	99	1	0	25.52
41055	41253	QPSK	1	99	1	0	25.41
41490	41292	QPSK	1	0	1	99	25.43

CA_41C HPUE 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	
39750	39948	QPSK	1	99	1	0	22.86
40185	40383	QPSK	1	99	1	0	22.87
40620	40818	QPSK	1	99	1	0	22.88
41055	41253	QPSK	1	99	1	0	22.81
41490	41292	QPSK	1	0	1	99	22.85

CA_42C Ant 7							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	22.39
42590	42788	QPSK	1	99	1	0	22.45
42990	42792	QPSK	1	0	1	99	22.37

CA_42C Ant 4							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	17.29
42590	42788	QPSK	1	99	1	0	17.31
42990	42792	QPSK	1	0	1	99	17.25

CA_42C Ant 8							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	22.32
42590	42788	QPSK	1	99	1	0	22.39
42990	42792	QPSK	1	0	1	99	22.35

CA_42C Ant 5							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	17.22
42590	42788	QPSK	1	99	1	0	17.34
42990	42792	QPSK	1	0	1	99	17.29

Reduced Power Mode for ECI2

CA_7C 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		
20850	21048	QPSK	1	99	1	0	22.53	24.00
21100	21298	QPSK	1	99	1	0	22.58	24.00
21350	21152	QPSK	1	0	1	99	22.55	24.00

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	18.54	19.90
21100	21298	QPSK	1	99	1	0	18.61	19.90
21350	21152	QPSK	1	0	1	99	18.57	19.90

CA_7C Ant 9								
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	20.54	21.60
21100	21298	QPSK	1	99	1	0	20.58	21.60
21350	21152	QPSK	1	0	1	99	20.52	21.60

CA_7C 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		
20850	21048	QPSK	1	99	1	0	19.71	21.00
21100	21298	QPSK	1	99	1	0	19.75	21.00
21350	21152	QPSK	1	0	1	99	19.73	21.00

CA_38C 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		
37850	38048	QPSK	1	99	1	0	22.38	24.00
37901	38099	QPSK	1	99	1	0	22.47	24.00
38150	37952	QPSK	1	0	1	99	22.36	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	20.12	21.60
37901	38099	QPSK	1	99	1	0	20.15	21.60
38150	37952	QPSK	1	0	1	99	20.11	21.60

CA_38C Ant 9								
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	19.95	21.40
37901	38099	QPSK	1	99	1	0	19.98	21.40
38150	37952	QPSK	1	0	1	99	19.92	21.40

CA_38C 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		
37850	38048	QPSK	1	99	1	0	19.84	21.00
37901	38099	QPSK	1	99	1	0	19.89	21.00
38150	37952	QPSK	1	0	1	99	19.83	21.00

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	22.51	24.00
40185	40383	QPSK	1	99	1	0	22.45	24.00
40620	40818	QPSK	1	99	1	0	22.53	24.00
41055	41253	QPSK	1	99	1	0	22.47	24.00
41490	41292	QPSK	1	0	1	99	22.42	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	20.13	21.50
40185	40383	QPSK	1	99	1	0	20.15	21.50
40620	40818	QPSK	1	99	1	0	20.18	21.50
41055	41253	QPSK	1	99	1	0	20.09	21.50
41490	41292	QPSK	1	0	1	99	20.11	21.50

CA_41C Ant 9								
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	21.40
40185	40383	QPSK	1	99	1	0	20.02	21.40
40620	40818	QPSK	1	99	1	0	20.08	21.40
41055	41253	QPSK	1	99	1	0	20.01	21.40
41490	41292	QPSK	1	0	1	99	20.05	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	19.86	21.00
40185	40383	QPSK	1	99	1	0	19.87	21.00
40620	40818	QPSK	1	99	1	0	19.92	21.00
41055	41253	QPSK	1	99	1	0	19.81	21.00
41490	41292	QPSK	1	0	1	99	19.85	21.00

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	25.42	27.00
40185	40383	QPSK	1	99	1	0	25.47	27.00
40620	40818	QPSK	1	99	1	0	25.52	27.00
41055	41253	QPSK	1	99	1	0	25.51	27.00
41490	41292	QPSK	1	0	1	99	25.43	27.00

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	21.78	23.10
40185	40383	QPSK	1	99	1	0	21.86	23.10
40620	40818	QPSK	1	99	1	0	21.88	23.10
41055	41253	QPSK	1	99	1	0	21.84	23.10
41490	41292	QPSK	1	0	1	99	21.81	23.10

CA_41C HPUE Ant 9								
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	21.56	23.00
40185	40383	QPSK	1	99	1	0	21.58	23.00
40620	40818	QPSK	1	99	1	0	21.62	23.00
41055	41253	QPSK	1	99	1	0	21.55	23.00
41490	41292	QPSK	1	0	1	99	21.51	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	22.86	24.00
40185	40383	QPSK	1	99	1	0	22.87	24.00
40620	40818	QPSK	1	99	1	0	22.88	24.00
41055	41253	QPSK	1	99	1	0	22.81	24.00
41490	41292	QPSK	1	0	1	99	22.85	24.00

CA_42C Ant 7								
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	18.57	19.60
42590	42788	QPSK	1	99	1	0	18.59	19.60
42990	42792	QPSK	1	0	1	99	18.52	19.60

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	15.52	16.60
42590	42788	QPSK	1	99	1	0	15.58	16.60
42990	42792	QPSK	1	0	1	99	15.49	16.60

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	22.32	24.00
42590	42788	QPSK	1	99	1	0	22.39	24.00
42990	42792	QPSK	1	0	1	99	22.35	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	17.22	19.00
42590	42788	QPSK	1	99	1	0	17.34	19.00
42990	42792	QPSK	1	0	1	99	17.29	19.00

Reduced Power Mode for EC13

CA_7C 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		
20850	21048	QPSK	1	99	1	0	18.62	19.70
21100	21298	QPSK	1	99	1	0	18.65	19.70
21350	21152	QPSK	1	0	1	99	18.65	19.70

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	16.18	17.10
21100	21298	QPSK	1	99	1	0	16.21	17.10
21350	21152	QPSK	1	0	1	99	16.15	17.10

CA_7C Ant 9								
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	19.16	20.20
21100	21298	QPSK	1	99	1	0	19.21	20.20
21350	21152	QPSK	1	0	1	99	19.08	20.20

CA_7C 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		
20850	21048	QPSK	1	99	1	0	19.71	21.00
21100	21298	QPSK	1	99	1	0	19.75	21.00
21350	21152	QPSK	1	0	1	99	19.73	21.00

CA_38C 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		
37850	38048	QPSK	1	99	1	0	21.02	22.70
37901	38099	QPSK	1	99	1	0	21.09	22.70
38150	37952	QPSK	1	0	1	99	21.05	22.70

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	19.12	20.40
37901	38099	QPSK	1	99	1	0	19.21	20.40
38150	37952	QPSK	1	0	1	99	19.16	20.40

CA_38C Ant 9								
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	17.56	19.00
37901	38099	QPSK	1	99	1	0	17.58	19.00
38150	37952	QPSK	1	0	1	99	17.53	19.00

CA_38C 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		
37850	38048	QPSK	1	99	1	0	19.84	21.00
37901	38099	QPSK	1	99	1	0	19.89	21.00
38150	37952	QPSK	1	0	1	99	19.83	21.00

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	21.05	22.70
40185	40383	QPSK	1	99	1	0	21.06	22.70
40620	40818	QPSK	1	99	1	0	21.09	22.70
41055	41253	QPSK	1	99	1	0	21.02	22.70
41490	41292	QPSK	1	0	1	99	20.98	22.70

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	19.15	20.40
40185	40383	QPSK	1	99	1	0	19.18	20.40
40620	40818	QPSK	1	99	1	0	19.21	20.40
41055	41253	QPSK	1	99	1	0	19.11	20.40
41490	41292	QPSK	1	0	1	99	19.06	20.40

CA_41C Ant 9								
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	17.53	19.00
40185	40383	QPSK	1	99	1	0	17.56	19.00
40620	40818	QPSK	1	99	1	0	17.61	19.00
41055	41253	QPSK	1	99	1	0	17.52	19.00
41490	41292	QPSK	1	0	1	99	17.54	19.00

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	19.86	21.00
40185	40383	QPSK	1	99	1	0	19.87	21.00
40620	40818	QPSK	1	99	1	0	19.92	21.00
41055	41253	QPSK	1	99	1	0	19.81	21.00
41490	41292	QPSK	1	0	1	99	19.85	21.00

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	22.65	24.30
40185	40383	QPSK	1	99	1	0	22.63	24.30
40620	40818	QPSK	1	99	1	0	22.69	24.30
41055	41253	QPSK	1	99	1	0	22.61	24.30
41490	41292	QPSK	1	0	1	99	22.58	24.30

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	20.72	22.00
40185	40383	QPSK	1	99	1	0	20.75	22.00
40620	40818	QPSK	1	99	1	0	20.79	22.00
41055	41253	QPSK	1	99	1	0	20.68	22.00
41490	41292	QPSK	1	0	1	99	20.71	22.00

CA_41C HPUE Ant 9								
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	19.08	20.60
40185	40383	QPSK	1	99	1	0	19.12	20.60
40620	40818	QPSK	1	99	1	0	19.18	20.60
41055	41253	QPSK	1	99	1	0	19.11	20.60
41490	41292	QPSK	1	0	1	99	19.15	20.60

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	22.86	24.00
40185	40383	QPSK	1	99	1	0	22.87	24.00
40620	40818	QPSK	1	99	1	0	22.88	24.00
41055	41253	QPSK	1	99	1	0	22.81	24.00
41490	41292	QPSK	1	0	1	99	22.85	24.00

CA_42C Ant 7								
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	19.38	20.40
42590	42788	QPSK	1	99	1	0	19.41	20.40
42990	42792	QPSK	1	0	1	99	19.36	20.40

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	14.98	16.40
42590	42788	QPSK	1	99	1	0	15.02	16.40
42990	42792	QPSK	1	0	1	99	14.95	16.40

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	22.32	24.00
42590	42788	QPSK	1	99	1	0	22.39	24.00
42990	42792	QPSK	1	0	1	99	22.35	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	17.22	19.00
42590	42788	QPSK	1	99	1	0	17.34	19.00
42990	42792	QPSK	1	0	1	99	17.29	19.00

Reduced Power Mode for EC17

CA_7C 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		
20850	21048	QPSK	1	99	1	0	18.05	19.00
21100	21298	QPSK	1	99	1	0	18.12	19.00
21350	21152	QPSK	1	0	1	99	18.09	19.00

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	14.44	16.00
21100	21298	QPSK	1	99	1	0	14.58	16.00
21350	21152	QPSK	1	0	1	99	14.49	16.00

CA_7C Ant 9								
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	14.62	15.60
21100	21298	QPSK	1	99	1	0	14.68	15.60
21350	21152	QPSK	1	0	1	99	14.64	15.60

CA_7C 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		
20850	21048	QPSK	1	99	1	0	19.71	21.00
21100	21298	QPSK	1	99	1	0	19.75	21.00
21350	21152	QPSK	1	0	1	99	19.73	21.00

CA_38C 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		
37850	38048	QPSK	1	99	1	0	20.52	21.20
37901	38099	QPSK	1	99	1	0	20.55	21.20
38150	37952	QPSK	1	0	1	99	20.54	21.20

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	17.54	19.00
37901	38099	QPSK	1	99	1	0	17.62	19.00
38150	37952	QPSK	1	0	1	99	17.59	19.00

CA_38C Ant 9								
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	13.05	14.50
37901	38099	QPSK	1	99	1	0	13.11	14.50
38150	37952	QPSK	1	0	1	99	13.08	14.50

CA_38C 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		
37850	38048	QPSK	1	99	1	0	19.84	21.00
37901	38099	QPSK	1	99	1	0	19.89	21.00
38150	37952	QPSK	1	0	1	99	19.83	21.00

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	20.46	21.20
40185	40383	QPSK	1	99	1	0	20.57	21.20
40620	40818	QPSK	1	99	1	0	20.59	21.20
41055	41253	QPSK	1	99	1	0	20.51	21.20
41490	41292	QPSK	1	0	1	99	20.55	21.20

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	17.62	19.00
40185	40383	QPSK	1	99	1	0	17.64	19.00
40620	40818	QPSK	1	99	1	0	17.71	19.00
41055	41253	QPSK	1	99	1	0	17.58	19.00
41490	41292	QPSK	1	0	1	99	17.68	19.00

CA_41C Ant 9								
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	13.05	14.50
40185	40383	QPSK	1	99	1	0	13.09	14.50
40620	40818	QPSK	1	99	1	0	13.15	14.50
41055	41253	QPSK	1	99	1	0	13.08	14.50
41490	41292	QPSK	1	0	1	99	13.01	14.50

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	19.86	21.00
40185	40383	QPSK	1	99	1	0	19.87	21.00
40620	40818	QPSK	1	99	1	0	19.92	21.00
41055	41253	QPSK	1	99	1	0	19.81	21.00
41490	41292	QPSK	1	0	1	99	19.85	21.00

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	22.13	22.80	
40185	40383	QPSK	1	99	1	0	22.05	22.80	
40620	40818	QPSK	1	99	1	0	22.15	22.80	
41055	41253	QPSK	1	99	1	0	22.09	22.80	
41490	41292	QPSK	1	0	1	99	22.11	22.80	

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	19.22	20.60	
40185	40383	QPSK	1	99	1	0	19.27	20.60	
40620	40818	QPSK	1	99	1	0	19.31	20.60	
41055	41253	QPSK	1	99	1	0	19.25	20.60	
41490	41292	QPSK	1	0	1	99	19.19	20.60	

CA_41C HPUE Ant 9									
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	14.75	16.10	
40185	40383	QPSK	1	99	1	0	14.71	16.10	
40620	40818	QPSK	1	99	1	0	14.62	16.10	
41055	41253	QPSK	1	99	1	0	14.76	16.10	
41490	41292	QPSK	1	0	1	99	14.78	16.10	

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	22.86	24.00	
40185	40383	QPSK	1	99	1	0	22.87	24.00	
40620	40818	QPSK	1	99	1	0	22.88	24.00	
41055	41253	QPSK	1	99	1	0	22.81	24.00	
41490	41292	QPSK	1	0	1	99	22.85	24.00	

CA_42C Ant 7									
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	15.84	17.20	
42590	42788	QPSK	1	99	1	0	15.92	17.20	
42990	42792	QPSK	1	0	1	99	15.88	17.20	

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	10.96	12.50	
42590	42788	QPSK	1	99	1	0	11.01	12.50	
42990	42792	QPSK	1	0	1	99	10.95	12.50	

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	21.86	22.70	
42590	42788	QPSK	1	99	1	0	21.91	22.70	
42990	42792	QPSK	1	0	1	99	21.83	22.70	

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	16.37	17.50	
42590	42788	QPSK	1	99	1	0	16.45	17.50	
42990	42792	QPSK	1	0	1	99	16.41	17.50	

Reduced Power Mode for ECI6

CA_7C 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		
20850	21048	QPSK	1	99	1	0	20.52	21.60
21100	21298	QPSK	1	99	1	0	20.56	21.60
21350	21152	QPSK	1	0	1	99	20.51	21.60

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	20.15	21.50
21100	21298	QPSK	1	99	1	0	20.21	21.50
21350	21152	QPSK	1	0	1	99	20.16	21.50

CA_7C Ant 9								
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	16.71	18.00
21100	21298	QPSK	1	99	1	0	16.82	18.00
21350	21152	QPSK	1	0	1	99	16.76	18.00

CA_7C 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		
20850	21048	QPSK	1	99	1	0	19.71	21.00
21100	21298	QPSK	1	99	1	0	19.75	21.00
21350	21152	QPSK	1	0	1	99	19.73	21.00

CA_38C 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		
37850	38048	QPSK	1	99	1	0	22.38	24.00
37901	38099	QPSK	1	99	1	0	22.47	24.00
38150	37952	QPSK	1	0	1	99	22.36	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	21.51	23.00
37901	38099	QPSK	1	99	1	0	21.58	23.00
38150	37952	QPSK	1	0	1	99	21.55	23.00

CA_38C Ant 9								
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	17.86	19.30
37901	38099	QPSK	1	99	1	0	17.95	19.30
38150	37952	QPSK	1	0	1	99	17.91	19.30

CA_38C 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		
37850	38048	QPSK	1	99	1	0	19.84	21.00
37901	38099	QPSK	1	99	1	0	19.89	21.00
38150	37952	QPSK	1	0	1	99	19.83	21.00

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	22.51	24.00
40185	40383	QPSK	1	99	1	0	22.41	24.00
40620	40818	QPSK	1	99	1	0	22.53	24.00
41055	41253	QPSK	1	99	1	0	22.47	24.00
41490	41292	QPSK	1	0	1	99	22.42	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	21.54	23.00
40185	40383	QPSK	1	99	1	0	21.58	23.00
40620	40818	QPSK	1	99	1	0	21.61	23.00
41055	41253	QPSK	1	99	1	0	21.56	23.00
41490	41292	QPSK	1	0	1	99	21.57	23.00

CA_41C Ant 9								
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	18.02	19.30
40185	40383	QPSK	1	99	1	0	18.05	19.30
40620	40818	QPSK	1	99	1	0	18.09	19.30
41055	41253	QPSK	1	99	1	0	17.95	19.30
41490	41292	QPSK	1	0	1	99	18.01	19.30

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	19.86	21.00
40185	40383	QPSK	1	99	1	0	19.87	21.00
40620	40818	QPSK	1	99	1	0	19.92	21.00
41055	41253	QPSK	1	99	1	0	19.81	21.00
41490	41292	QPSK	1	0	1	99	19.85	21.00

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	25.42	26.60
40185	40383	QPSK	1	99	1	0	25.45	26.60
40620	40818	QPSK	1	99	1	0	25.52	26.60
41055	41253	QPSK	1	99	1	0	25.51	26.60
41490	41292	QPSK	1	0	1	99	25.43	26.60

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	24.45	26.00
40185	40383	QPSK	1	99	1	0	24.53	26.00
40620	40818	QPSK	1	99	1	0	24.59	26.00
41055	41253	QPSK	1	99	1	0	24.43	26.00
41490	41292	QPSK	1	0	1	99	24.47	26.00

CA_41C HPUE Ant 9								
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	19.65	20.90
40185	40383	QPSK	1	99	1	0	19.67	20.90
40620	40818	QPSK	1	99	1	0	19.69	20.90
41055	41253	QPSK	1	99	1	0	19.58	20.90
41490	41292	QPSK	1	0	1	99	16.63	20.90

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	22.86	24.00
40185	40383	QPSK	1	99	1	0	22.87	24.00
40620	40818	QPSK	1	99	1	0	22.88	24.00
41055	41253	QPSK	1	99	1	0	22.81	24.00
41490	41292	QPSK	1	0	1	99	22.85	24.00

CA_42C Ant 7								
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	21.30
42590	42788	QPSK	1	99	1	0	19.97	21.30
42990	42792	QPSK	1	0	1	99	19.93	21.30

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	17.29	19.00
42590	42788	QPSK	1	99	1	0	17.31	19.00
42990	42792	QPSK	1	0	1	99	17.25	19.00

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	22.32	24.00
42590	42788	QPSK	1	99	1	0	22.39	24.00
42990	42792	QPSK	1	0	1	99	22.35	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	17.22	19.00
42590	42788	QPSK	1	99	1	0	17.34	19.00
42990	42792	QPSK	1	0	1	99	17.29	19.00

Reduced Power Mode for ECI4

CA_7C 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	
20850	21048	QPSK	1	99	1	0	22.53
21100	21298	QPSK	1	99	1	0	22.58
21350	21152	QPSK	1	0	1	99	22.55

CA_7C 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	
20850	21048	QPSK	1	99	1	0	20.71
21100	21298	QPSK	1	99	1	0	20.75
21350	21152	QPSK	1	0	1	99	20.73

CA_7C Ant 9							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	16.71
21100	21298	QPSK	1	99	1	0	16.82
21350	21152	QPSK	1	0	1	99	16.76

CA_7C 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	
20850	21048	QPSK	1	99	1	0	19.71
21100	21298	QPSK	1	99	1	0	19.75
21350	21152	QPSK	1	0	1	99	19.73

CA_38C 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	
37850	38048	QPSK	1	99	1	0	22.38
37901	38099	QPSK	1	99	1	0	22.47
38150	37952	QPSK	1	0	1	99	22.36

CA_38C 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	
37850	38048	QPSK	1	99	1	0	21.51
37901	38099	QPSK	1	99	1	0	21.58
38150	37952	QPSK	1	0	1	99	21.55

CA_38C Ant 9							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	17.86
37901	38099	QPSK	1	99	1	0	17.95
38150	37952	QPSK	1	0	1	99	17.91

CA_38C 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	
37850	38048	QPSK	1	99	1	0	19.84
37901	38099	QPSK	1	99	1	0	19.89
38150	37952	QPSK	1	0	1	99	19.83

CA_41C 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	
39750	39948	QPSK	1	99	1	0	22.51
40185	40383	QPSK	1	99	1	0	22.45
40620	40818	QPSK	1	99	1	0	22.53
41055	41253	QPSK	1	99	1	0	22.47
41490	41292	QPSK	1	0	1	99	22.42

CA_41C 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	
39750	39948	QPSK	1	99	1	0	21.54
40185	40383	QPSK	1	99	1	0	21.58
40620	40818	QPSK	1	99	1	0	21.61
41055	41253	QPSK	1	99	1	0	21.56
41490	41292	QPSK	1	0	1	99	21.57

CA_41C Ant 9							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	18.02
40185	40383	QPSK	1	99	1	0	18.05
40620	40818	QPSK	1	99	1	0	18.09
41055	41253	QPSK	1	99	1	0	17.95
41490	41292	QPSK	1	0	1	99	18.01

CA_41C 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	
39750	39948	QPSK	1	99	1	0	19.86
40185	40383	QPSK	1	99	1	0	19.87
40620	40818	QPSK	1	99	1	0	19.92
41055	41253	QPSK	1	99	1	0	19.81
41490	41292	QPSK	1	0	1	99	19.85

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	25.42	27.00
40185	40383	QPSK	1	99	1	0	25.47	27.00
40620	40818	QPSK	1	99	1	0	25.52	27.00
41055	41253	QPSK	1	99	1	0	25.51	27.00
41490	41292	QPSK	1	0	1	99	25.43	27.00

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	24.45	26.00
40185	40383	QPSK	1	99	1	0	24.53	26.00
40620	40818	QPSK	1	99	1	0	24.59	26.00
41055	41253	QPSK	1	99	1	0	24.43	26.00
41490	41292	QPSK	1	0	1	99	24.47	26.00

CA_41C HPUE Ant 9								
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	19.65	20.90
40185	40383	QPSK	1	99	1	0	19.67	20.90
40620	40818	QPSK	1	99	1	0	19.69	20.90
41055	41253	QPSK	1	99	1	0	19.58	20.90
41490	41292	QPSK	1	0	1	99	16.63	20.90

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	22.86	24.00
40185	40383	QPSK	1	99	1	0	22.87	24.00
40620	40818	QPSK	1	99	1	0	22.88	24.00
41055	41253	QPSK	1	99	1	0	22.81	24.00
41490	41292	QPSK	1	0	1	99	22.85	24.00

CA_42C Ant 7							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	22.39
42590	42788	QPSK	1	99	1	0	22.45
42990	42792	QPSK	1	0	1	99	22.37

CA_42C Ant 4							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	17.29
42590	42788	QPSK	1	99	1	0	17.31
42990	42792	QPSK	1	0	1	99	17.25

CA_42C Ant 8							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	22.32
42590	42788	QPSK	1	99	1	0	22.39
42990	42792	QPSK	1	0	1	99	22.35

CA_42C Ant 5							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	17.22
42590	42788	QPSK	1	99	1	0	17.34
42990	42792	QPSK	1	0	1	99	17.29