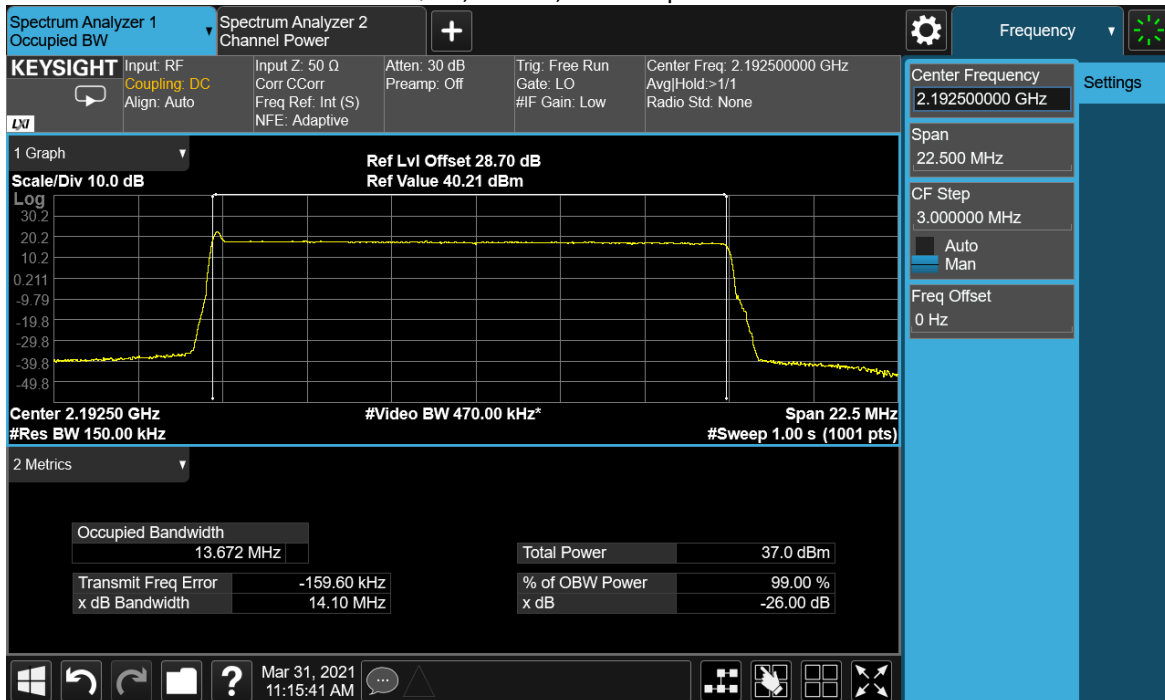
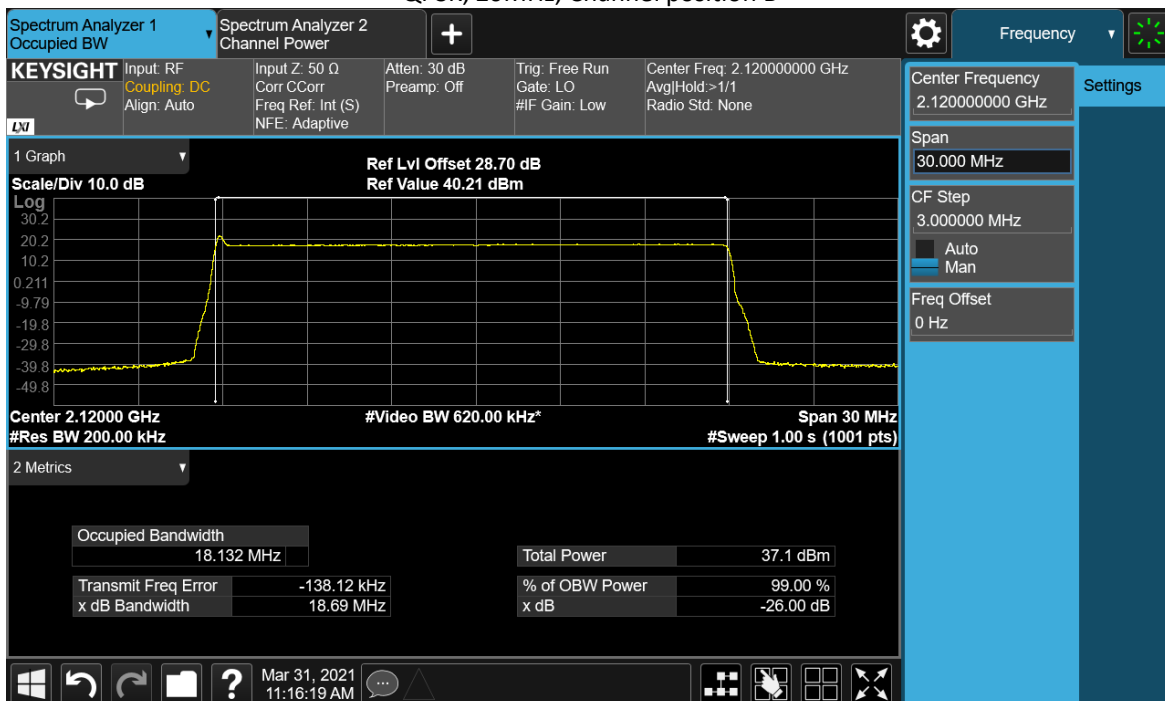


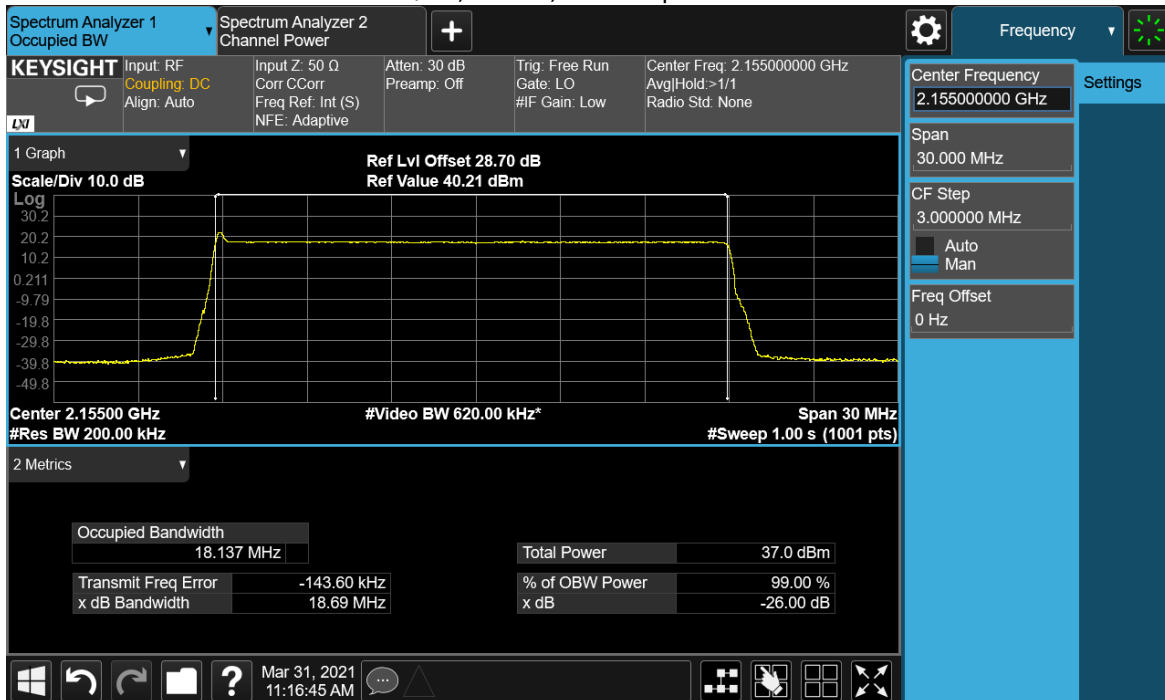
QPSK, 15MHz, Channel position T



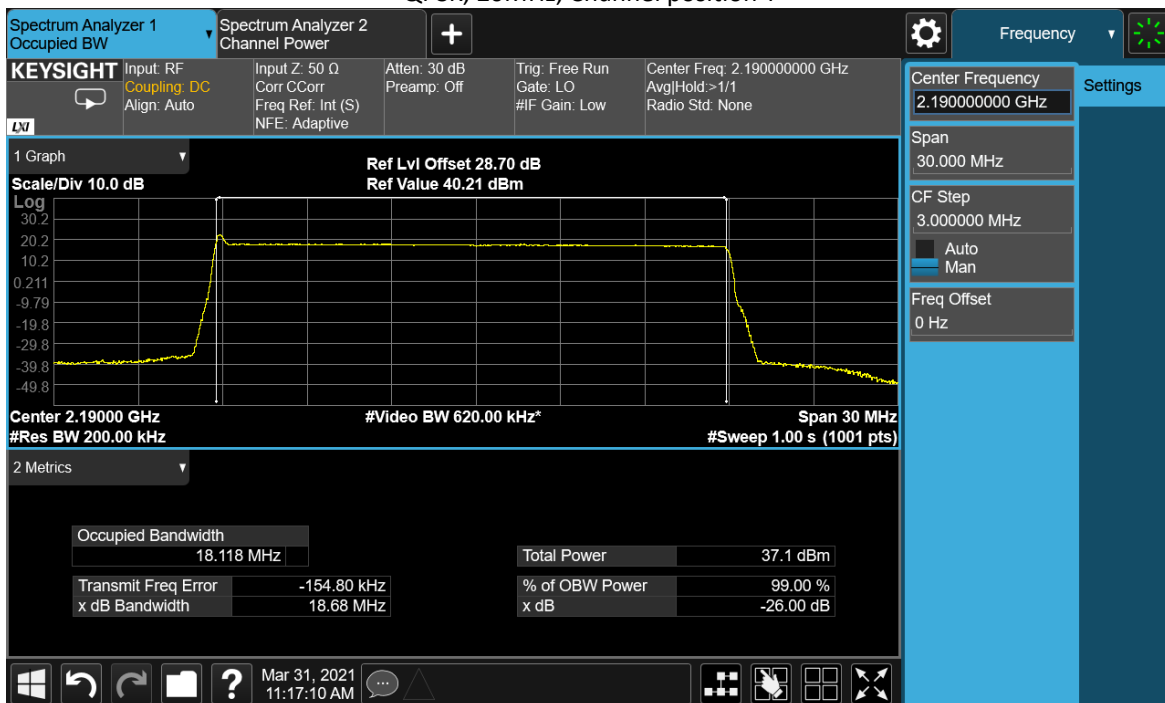
QPSK, 20MHz, Channel position B



QPSK, 20MHz, Channel position M



QPSK, 20MHz, Channel position T



TEST REPORT

NB-SA-1C

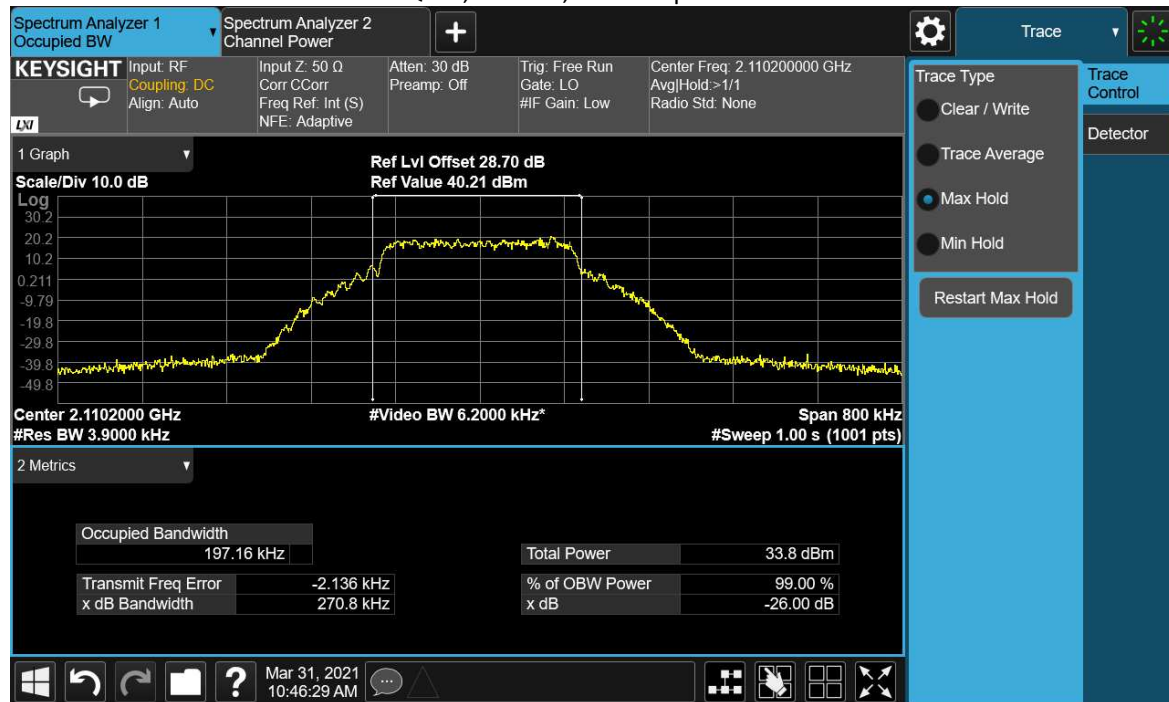
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (kHz)		
			Channel Position B	Channel Position M	Channel Position T
B	QPSK	0.2MHz	197.16	197.97	197.83

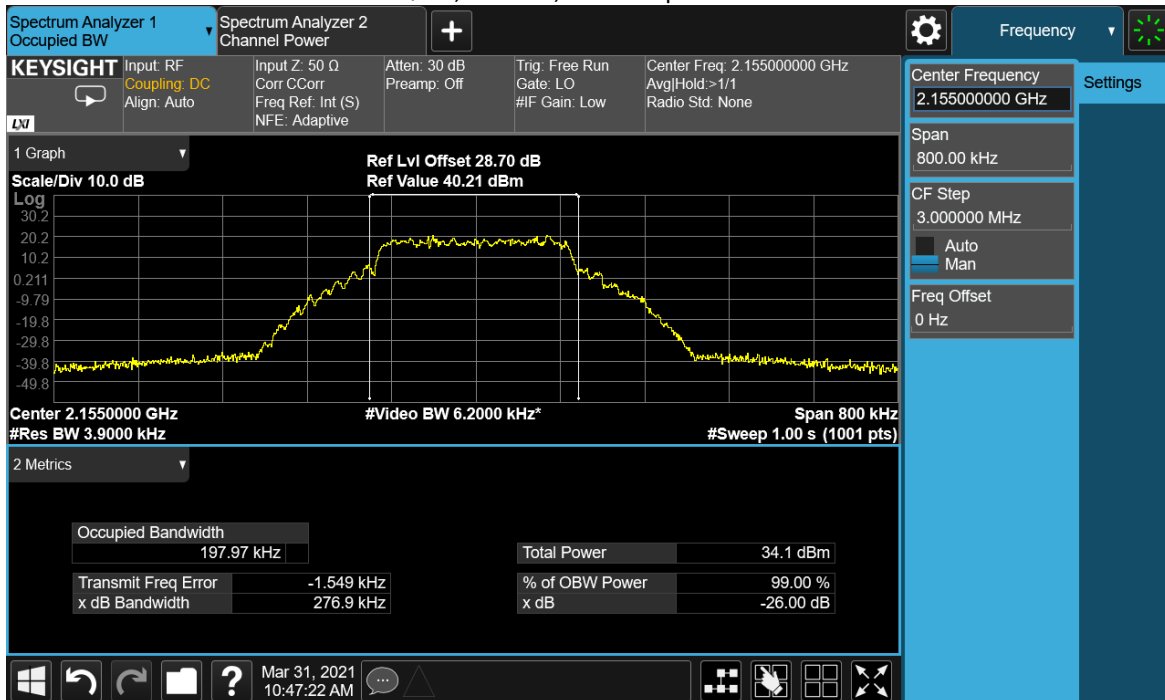
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (kHz)		
			Channel Position B	Channel Position M	Channel Position T
B	QPSK	0.2MHz	270.8	276.9	289.9

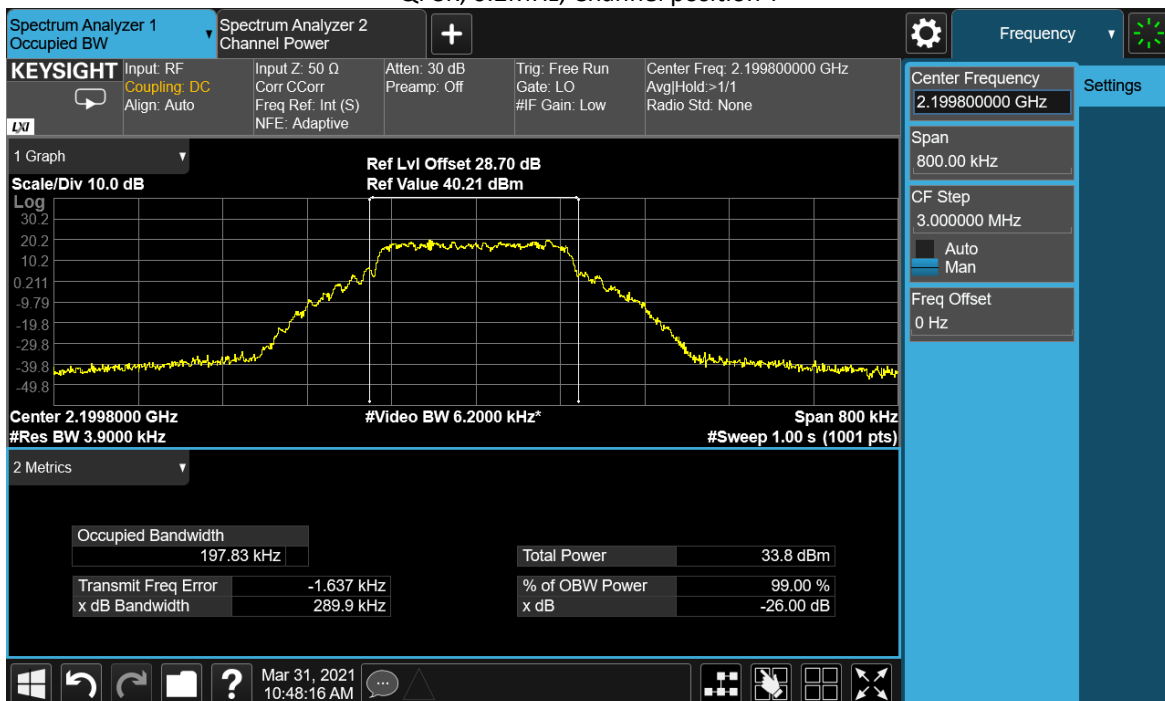
QPSK, 0.2MHz, Channel position B



QPSK, 0.2MHz, Channel position M



QPSK, 0.2MHz, Channel position T



TEST REPORT

LTE-MIMO-1C

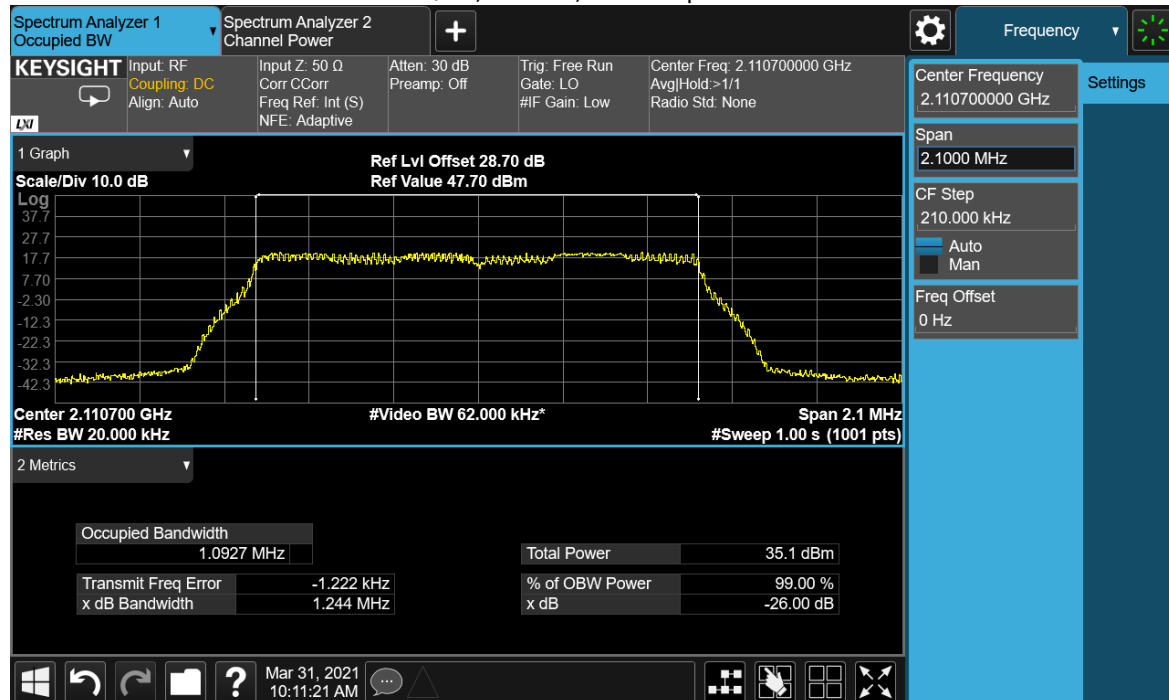
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
B	16QAM	1.4MHz	1.0927	1.0932	1.0937
B	16QAM	3MHz	2.6914	2.6918	2.6854
B	16QAM	5MHz	4.4672	4.4623	4.4685
B	16QAM	10MHz	8.9464	8.9418	8.9314
B	16QAM	15MHz	13.427	13.403	13.410
B	16QAM	20MHz	17.856	17.840	17.823

-26dBc Occupied Bandwidth

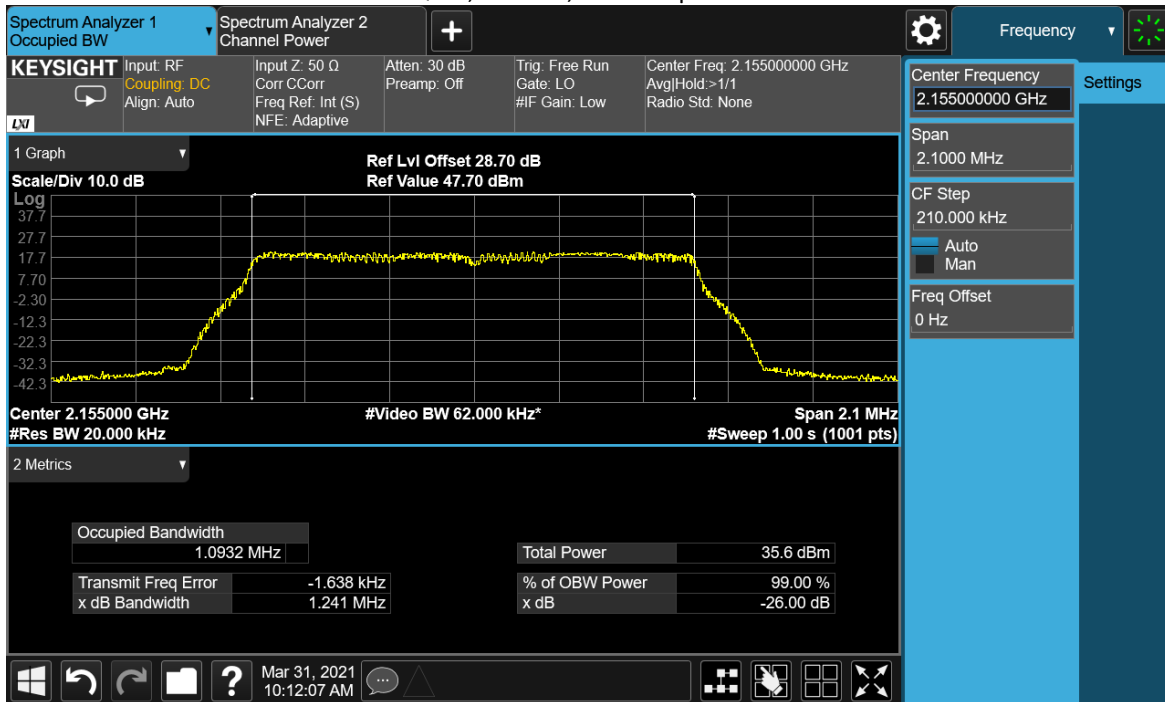
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
B	16QAM	1.4MHz	1.244	1.241	1.242
B	16QAM	3MHz	2.843	2.844	2.849
B	16QAM	5MHz	4.717	4.716	4.719
B	16QAM	10MHz	9.384	9.379	9.346
B	16QAM	15MHz	13.96	13.90	13.91
B	16QAM	20MHz	18.57	18.58	18.54

16QAM, 1.4MHz, Channel position B

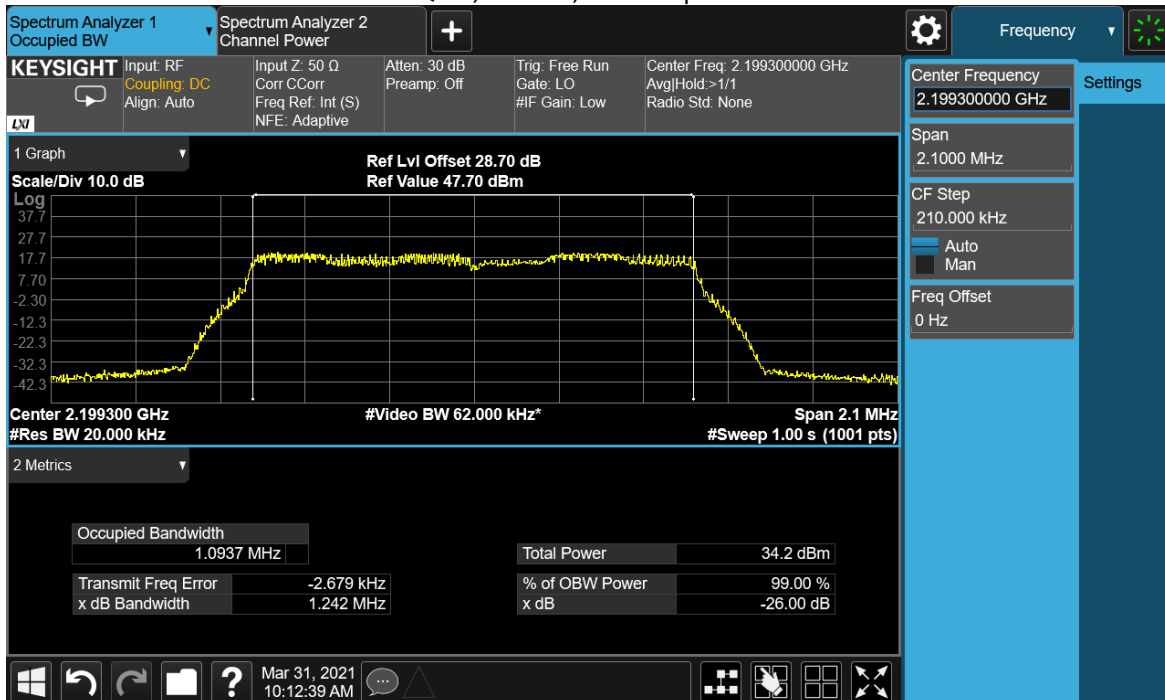


TEST REPORT

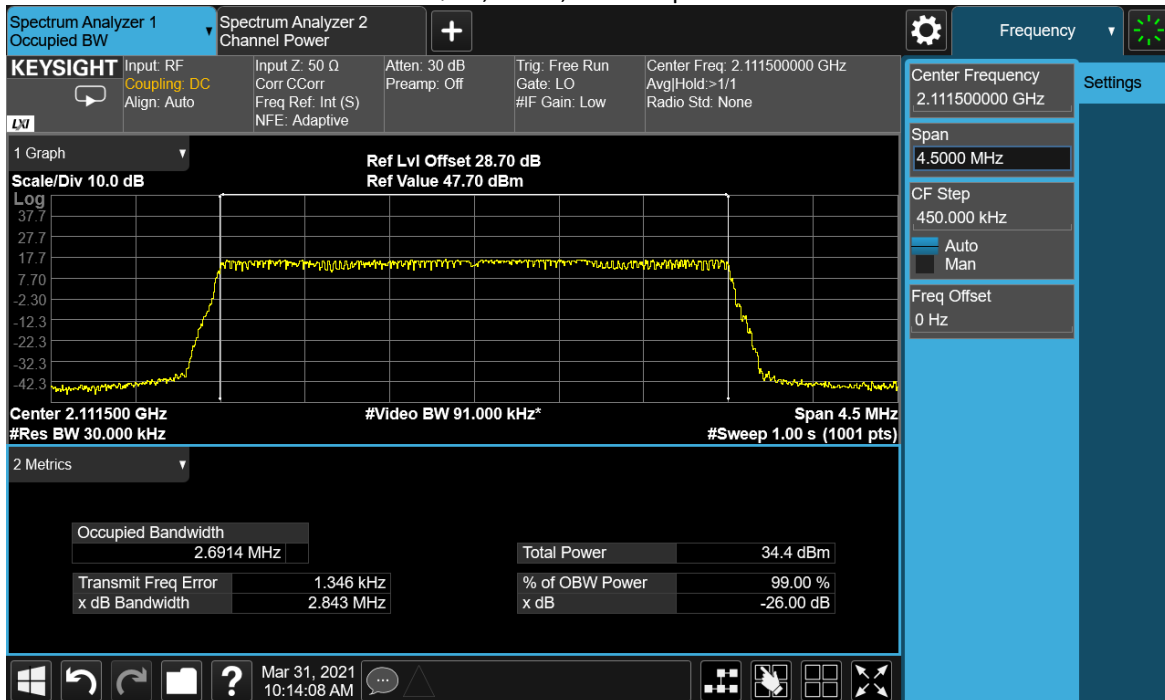
16QAM, 1.4MHz, Channel position M



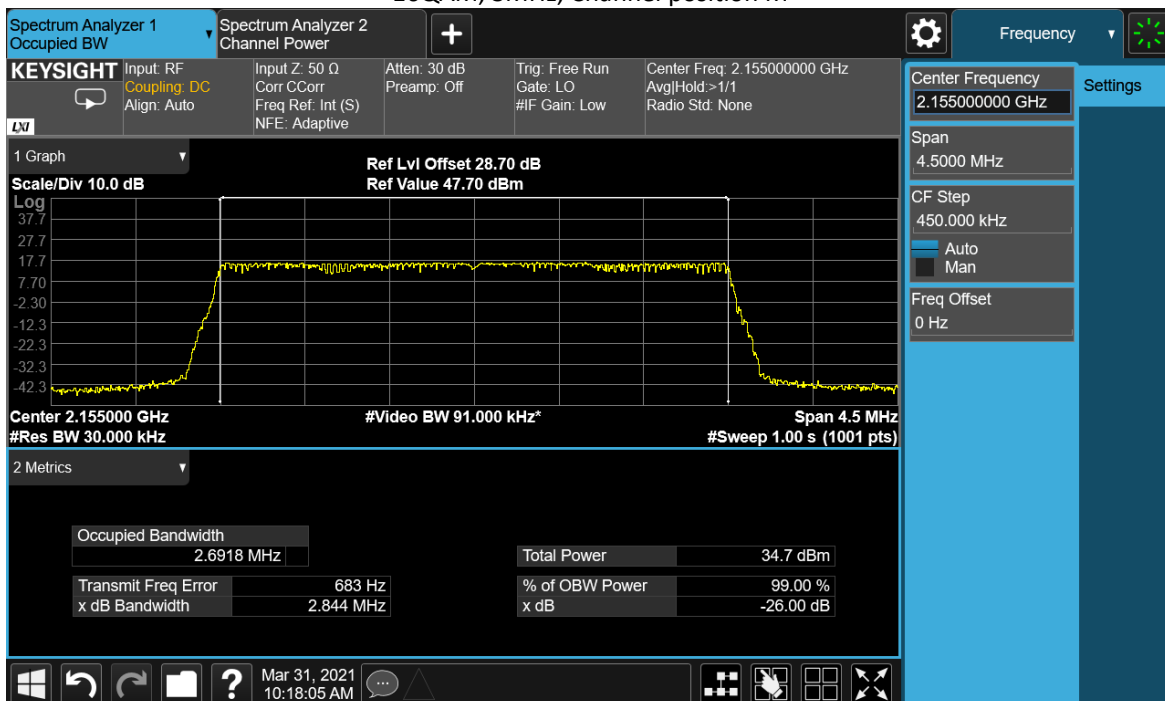
16QAM, 1.4MHz, Channel position T



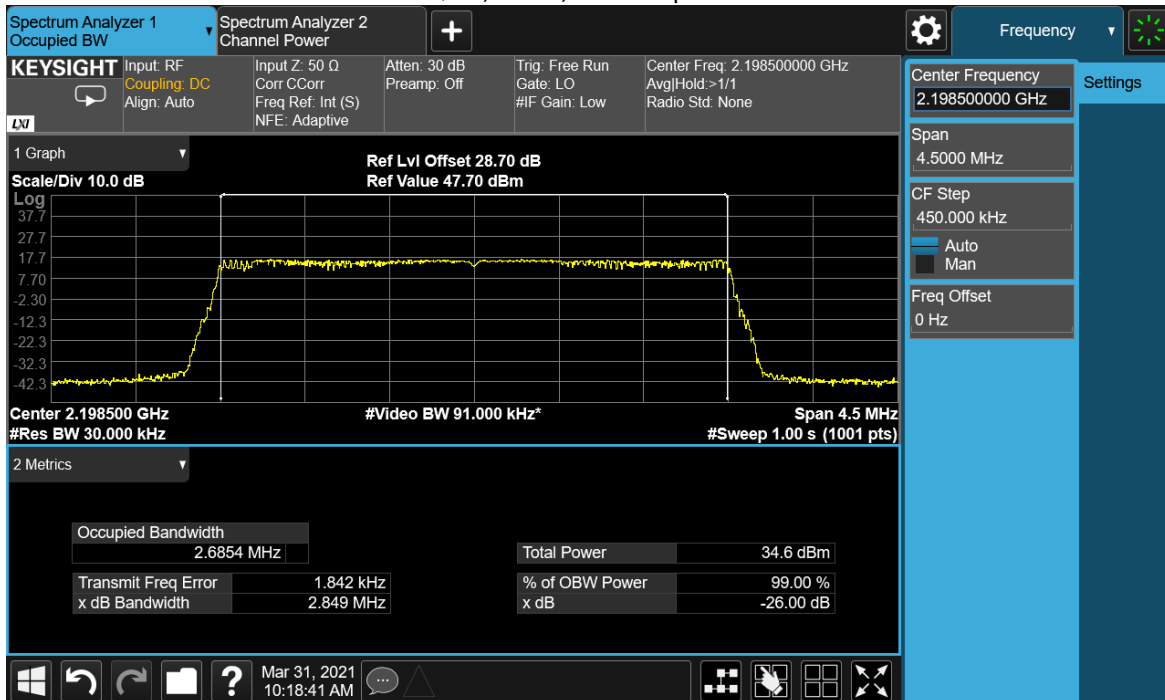
16QAM, 3MHz, Channel position B



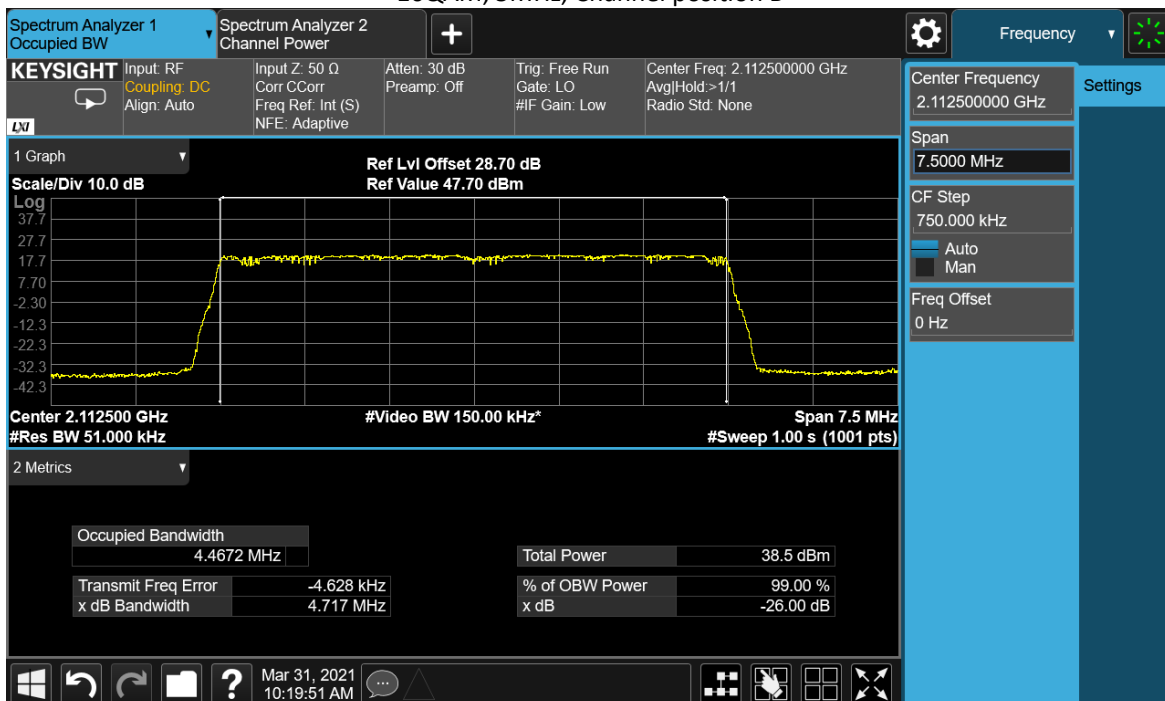
16QAM, 3MHz, Channel position M



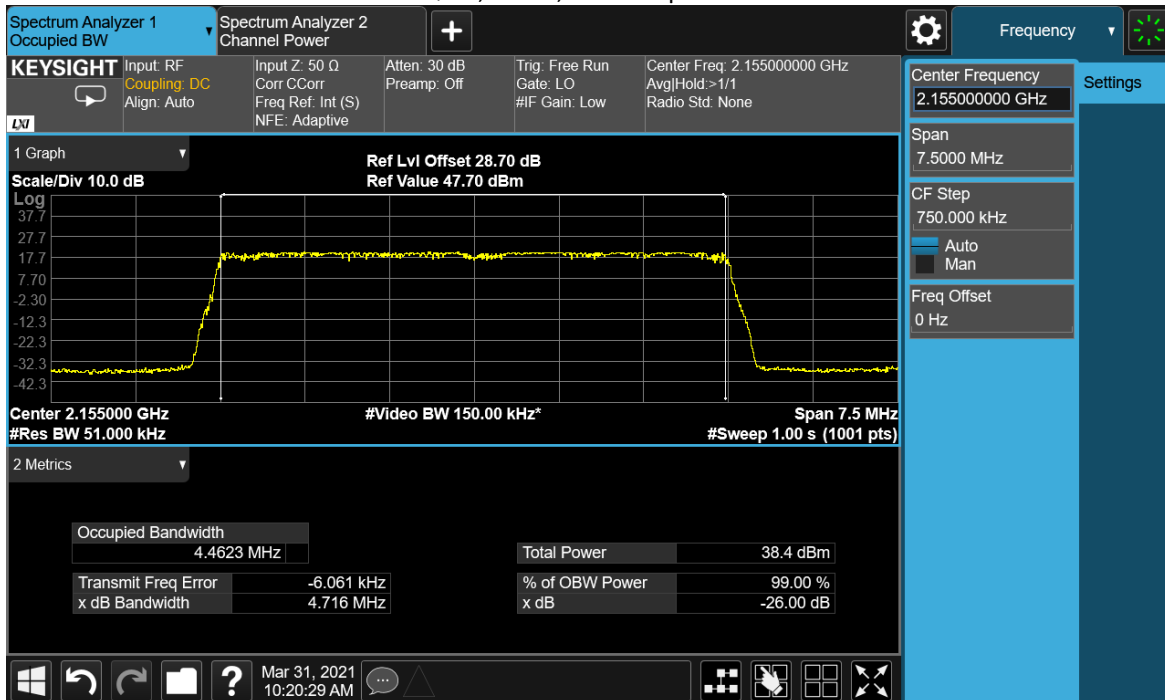
16QAM, 3MHz, Channel position T



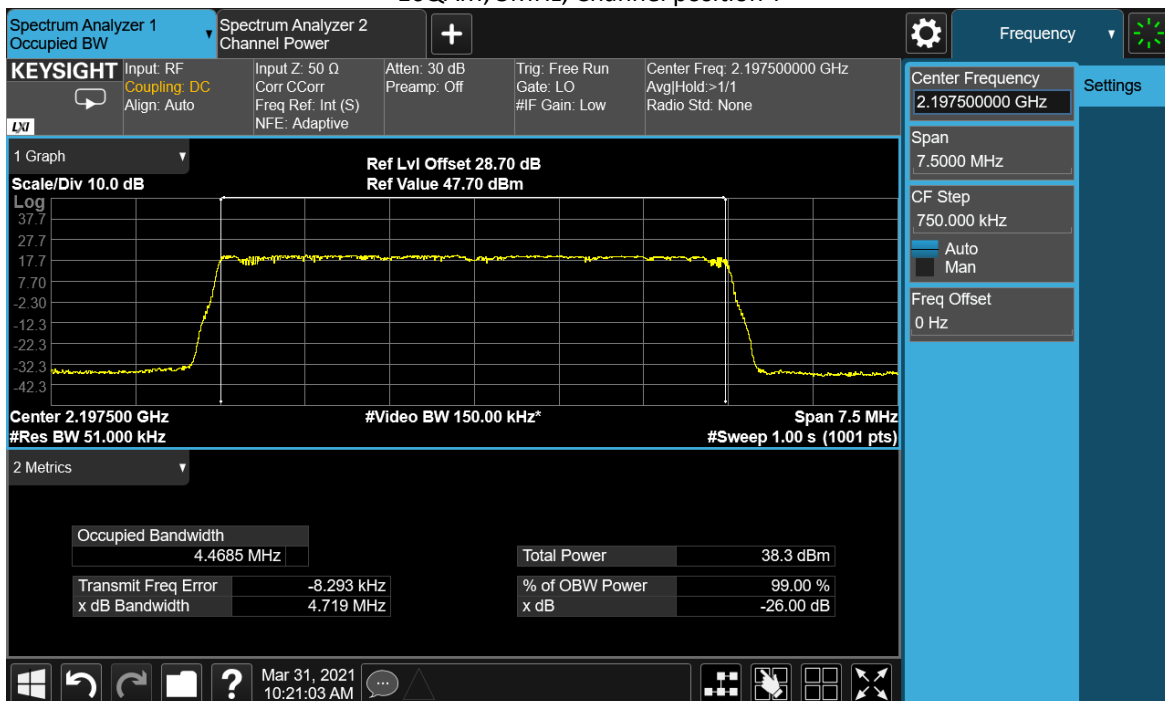
16QAM, 5MHz, Channel position B



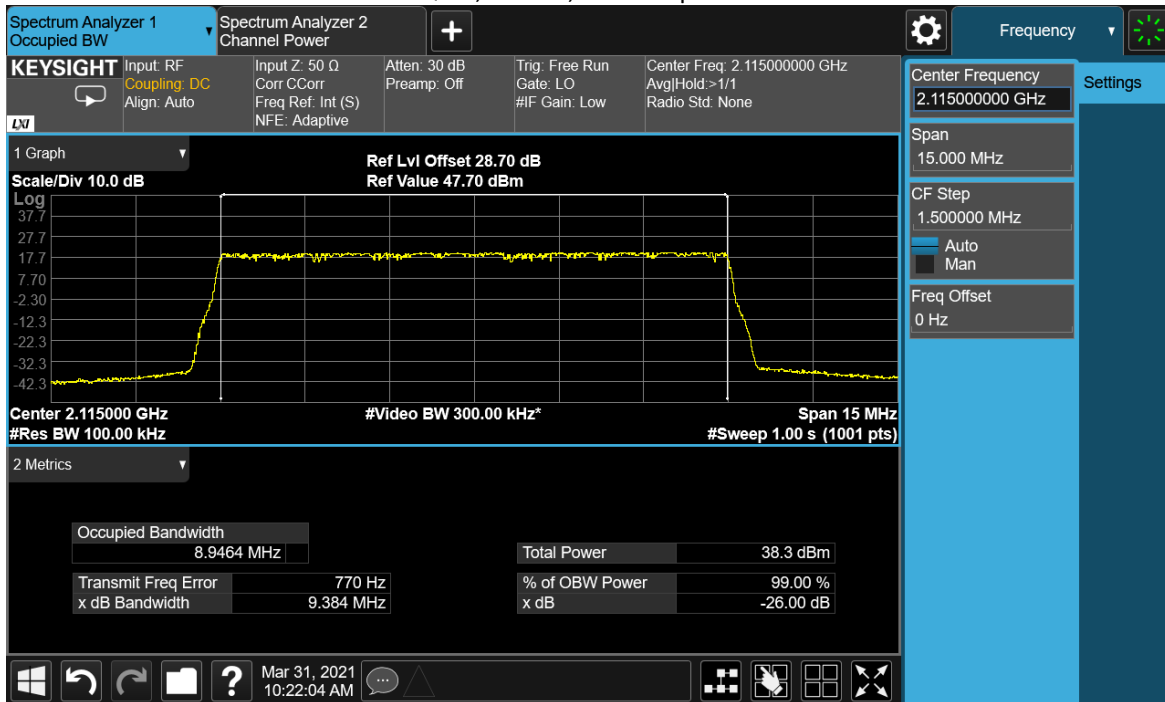
16QAM, 5MHz, Channel position M



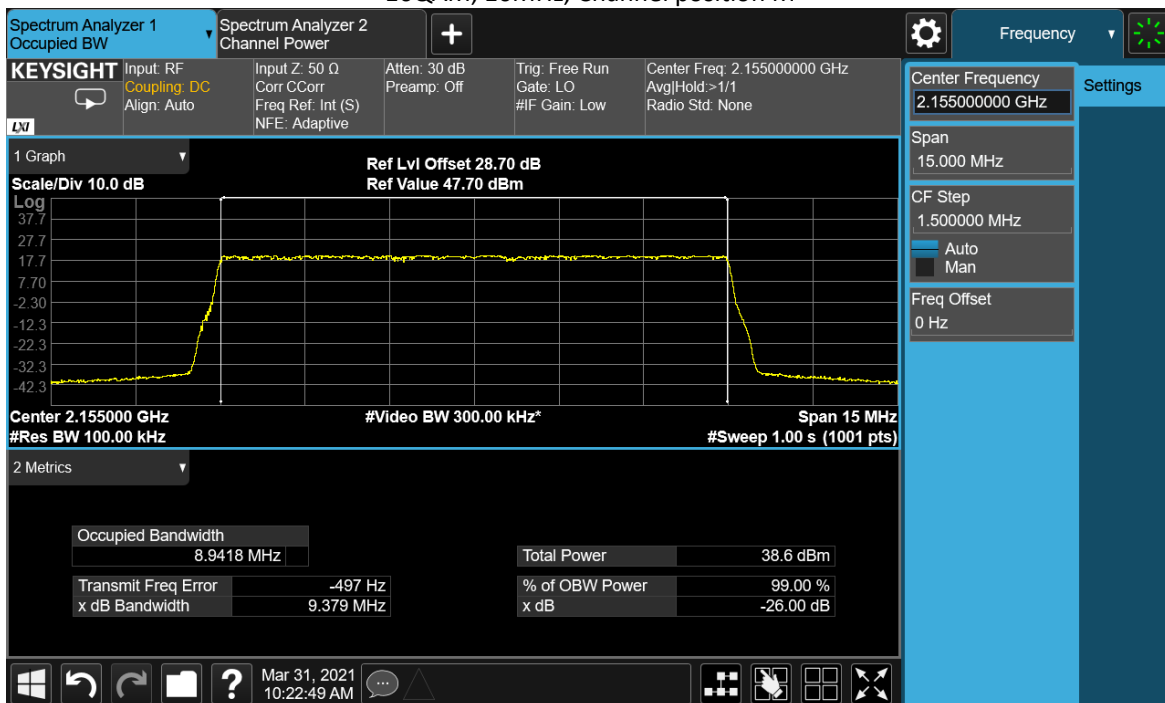
16QAM, 5MHz, Channel position T



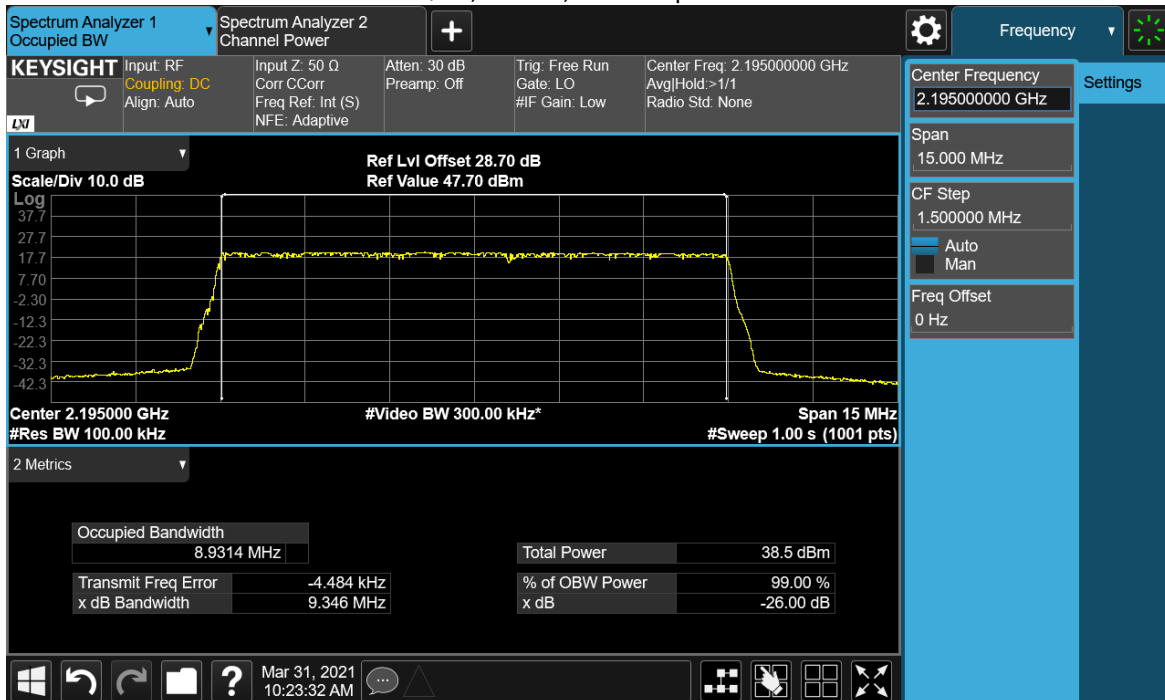
16QAM, 10MHz, Channel position B



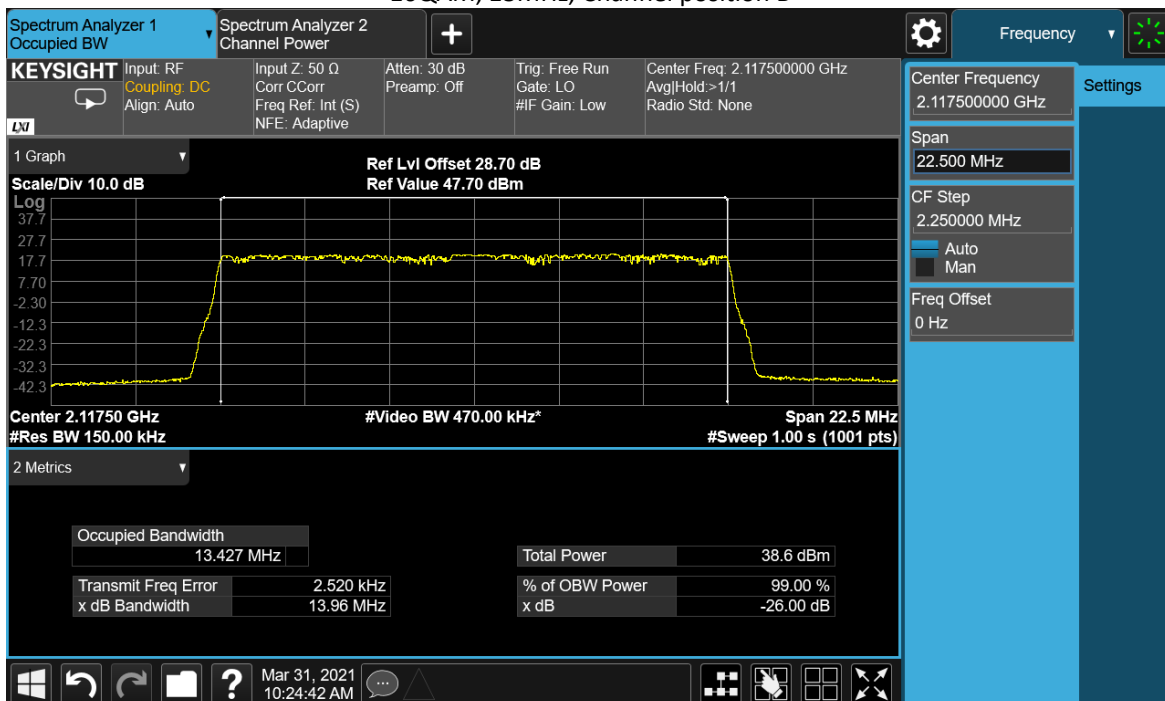
16QAM, 10MHz, Channel position M



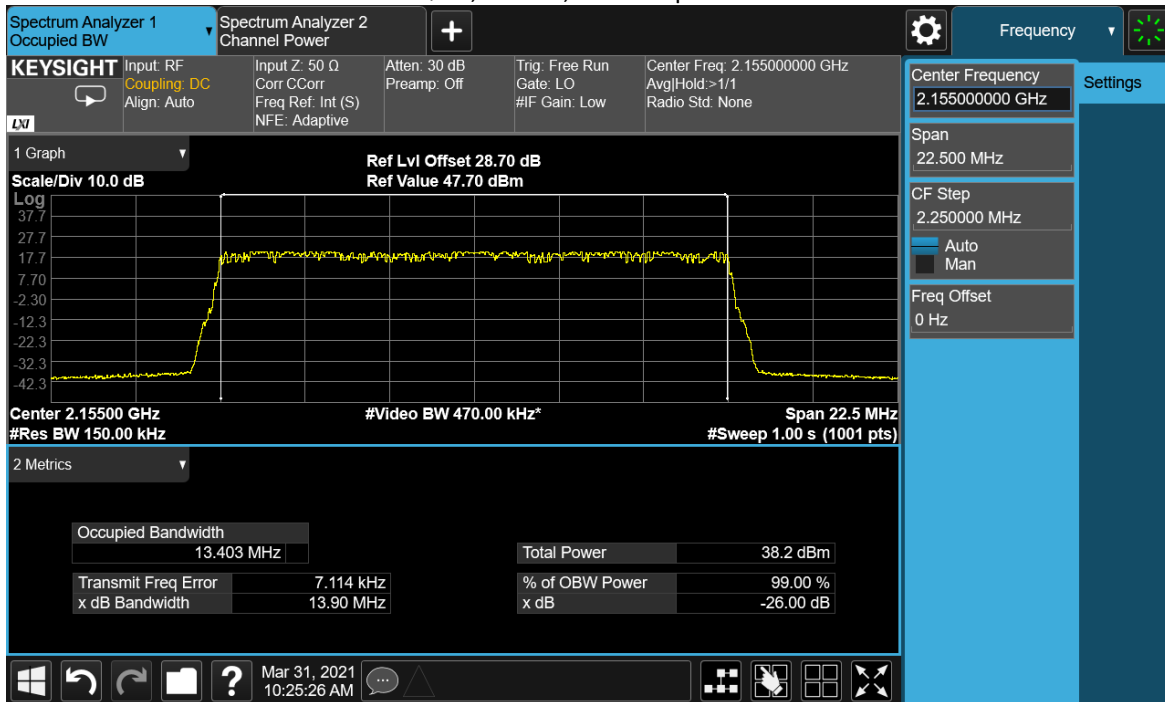
16QAM, 10MHz, Channel position M



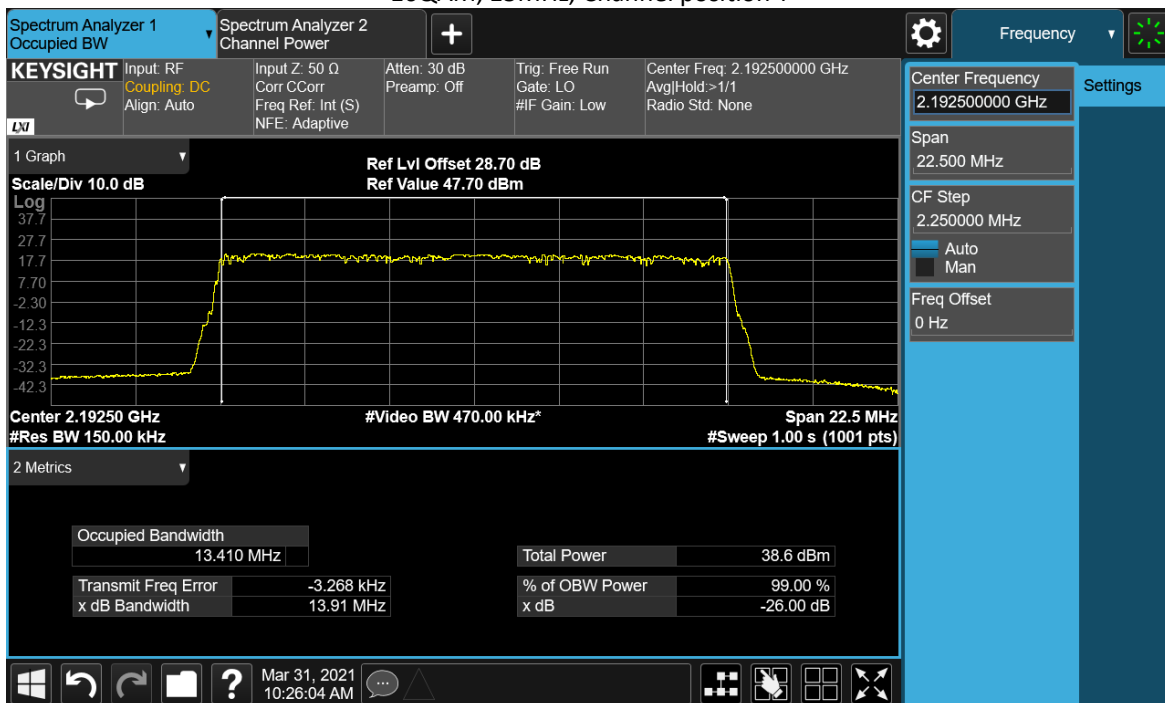
16QAM, 15MHz, Channel position B



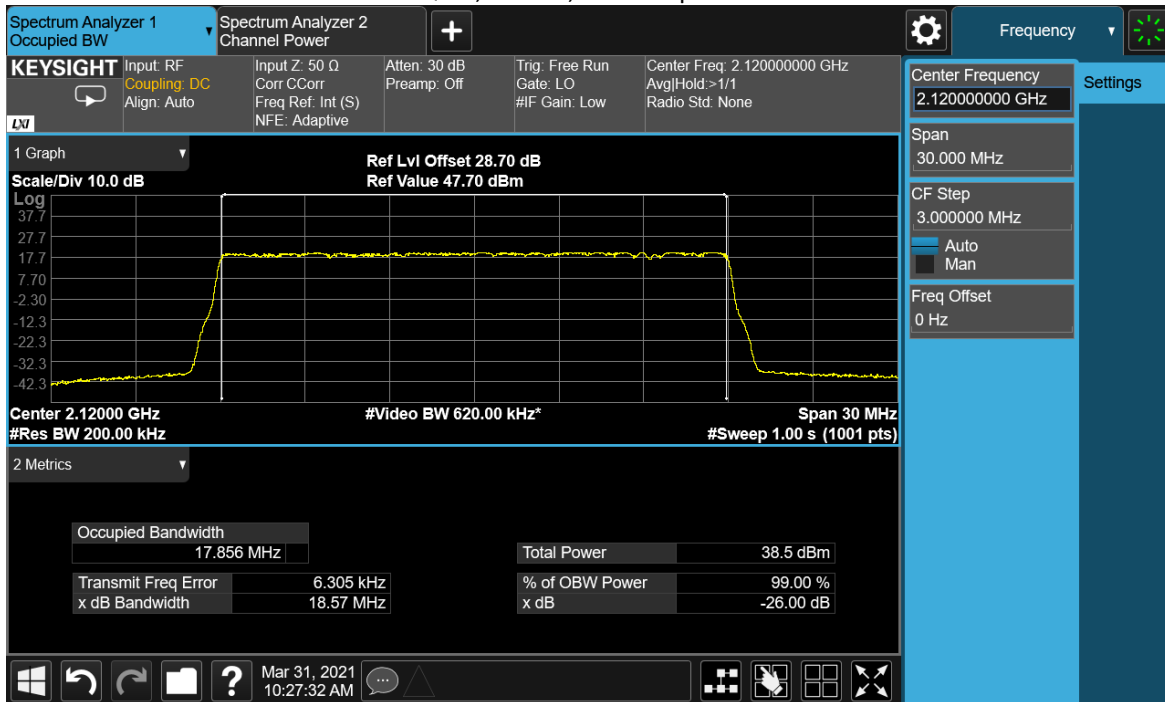
16QAM, 15MHz, Channel position M



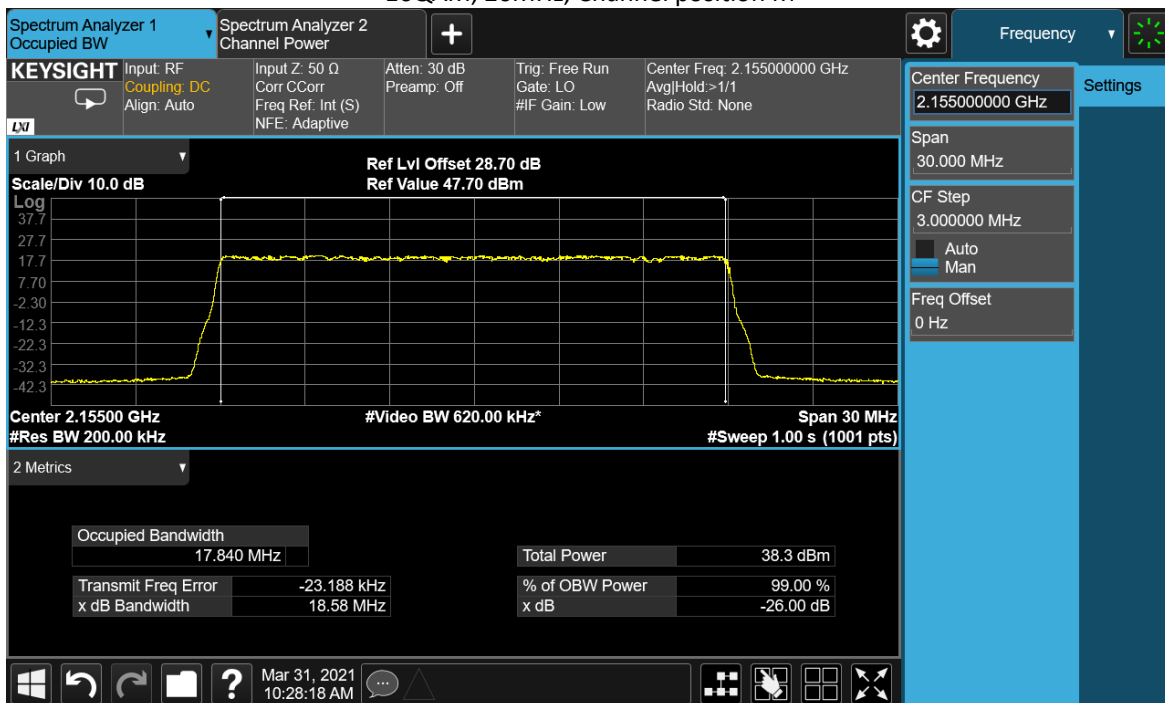
16QAM, 15MHz, Channel position T



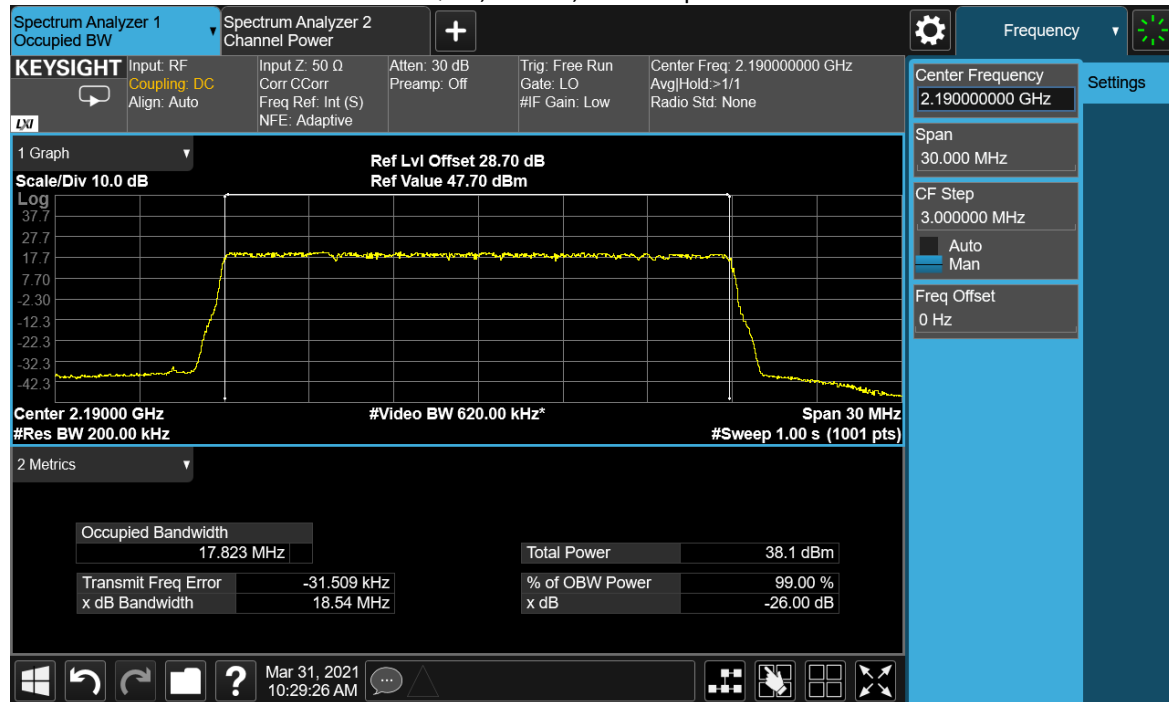
16QAM, 20MHz, Channel position B



16QAM, 20MHz, Channel position M



16QAM, 20MHz, Channel position T



WCDMA-MIMO-1C

99% Occupied Bandwidth

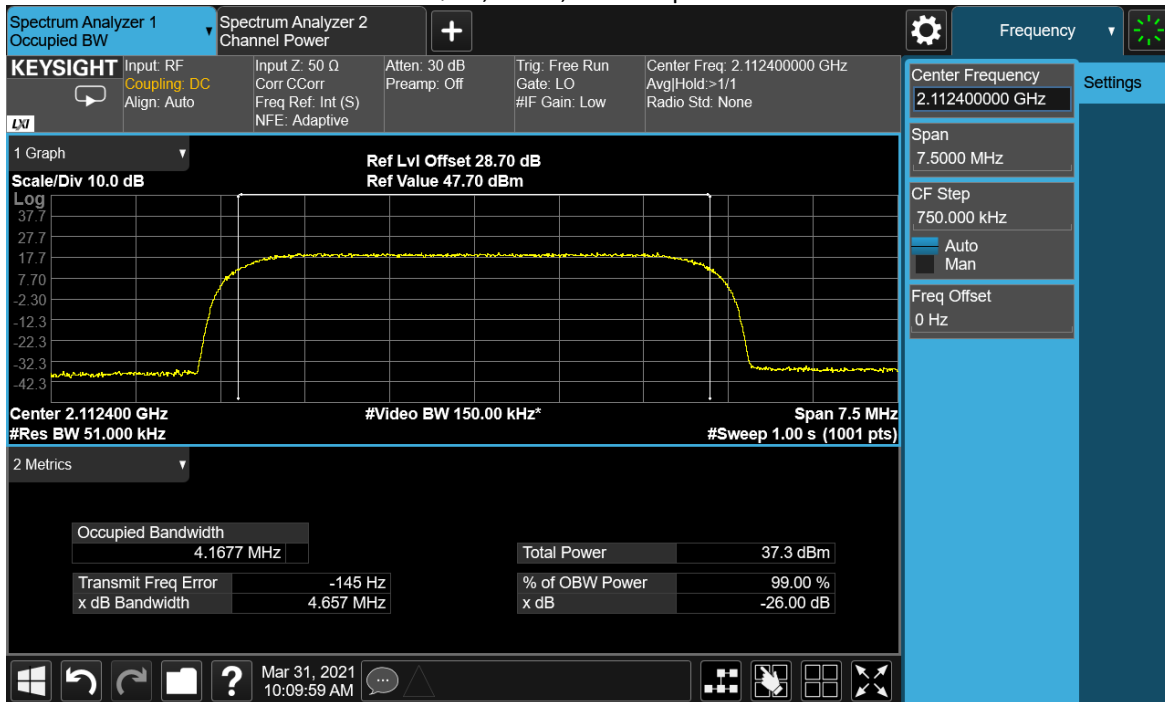
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
B	16QAM	5MHz	4.1677	4.1724	4.1693

-26dBc Occupied Bandwidth

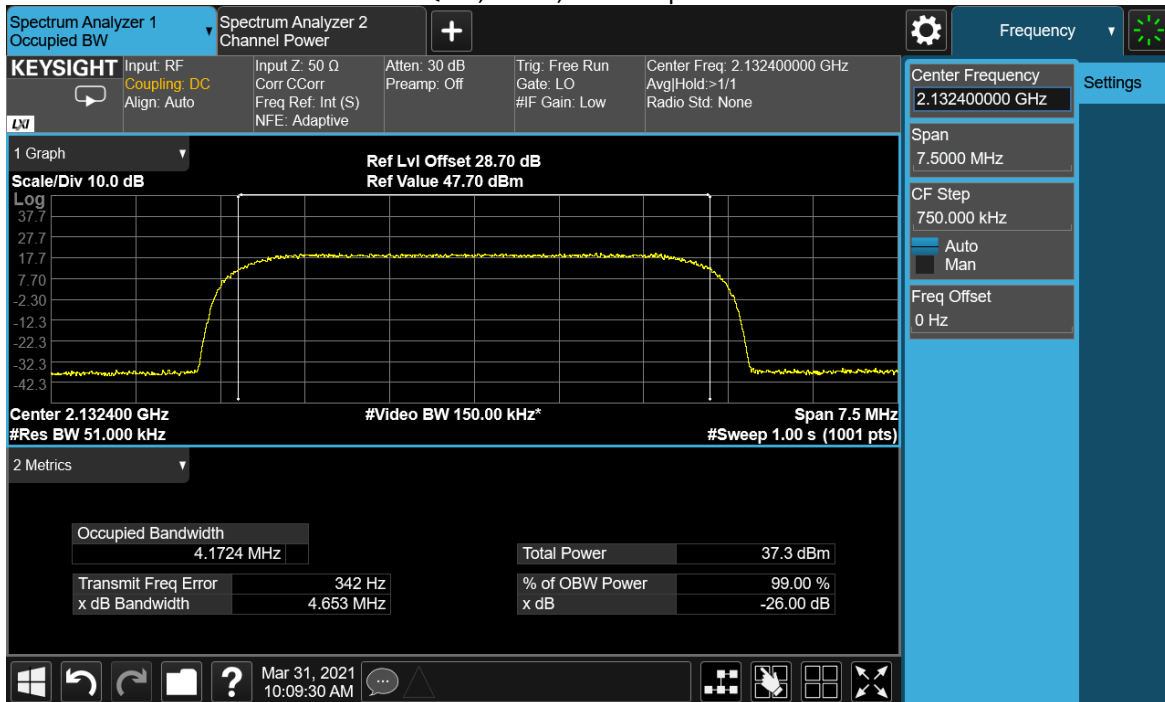
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
B	16QAM	5MHz	4.657	4.653	4.654

TEST REPORT

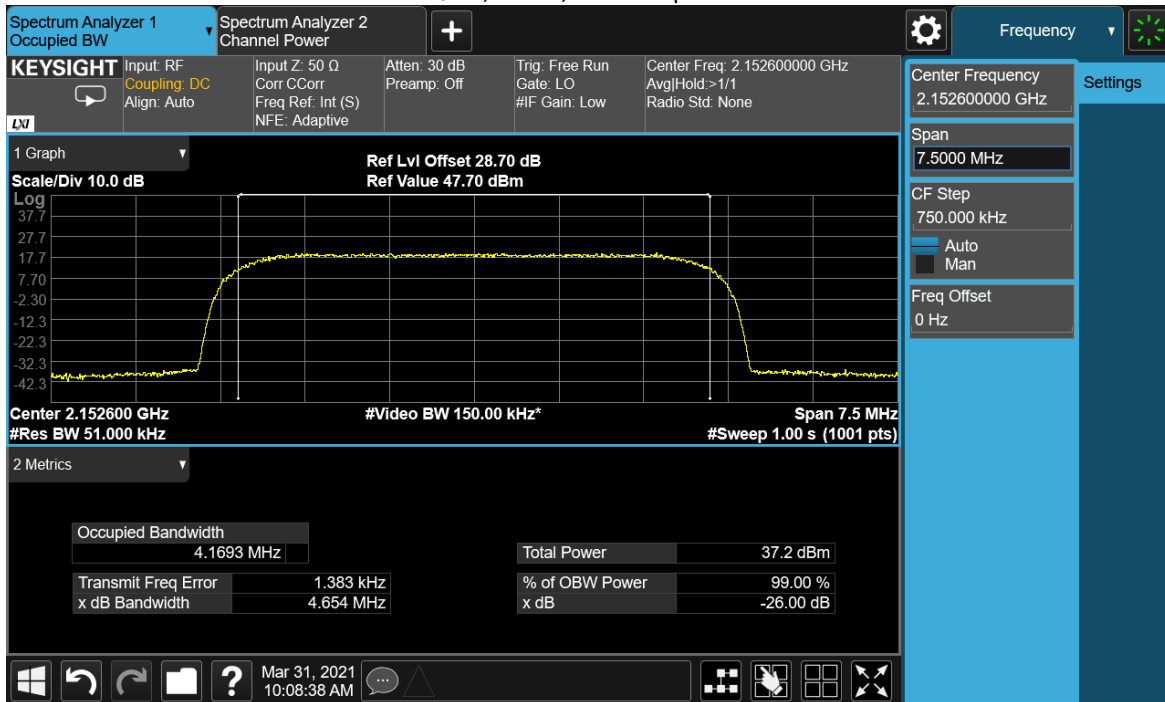
16QAM, 5MHz, Channel position B



16QAM, 5MHz, Channel position M



16QAM, 5MHz, Channel position T



5 Unwanted Emissions at Band Edge

Test result: Pass

5.1 Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

5.2 Measurement Procedure

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

For MIMO mode configurations, the limit was adjusted with a correction of -6.02dB $[10\log(1/4)]$ by using the Measure and Add $10\log(N)$ dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports . Then the limit was adjusted to -19.02dBm .

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed and a RBW of 1MHz for measurements of emissions > 1MHz away from the band edges. The limit was adjusted with -6.99dB $[10\log(200/1000)]$ to compensate for the reduce measurement bandwidth 200kHz for emission more than 1MHz away from the band edges. For MIMO mode, the limit of -26.01dBm was used for emission more than 1MHz away from the band edges. For Non-MIMO mode, the limit of -19.02dBm was used for emission more than 1MHz away from the band edges.

Spectrum analyzer detector was set as RMS.

TEST REPORT

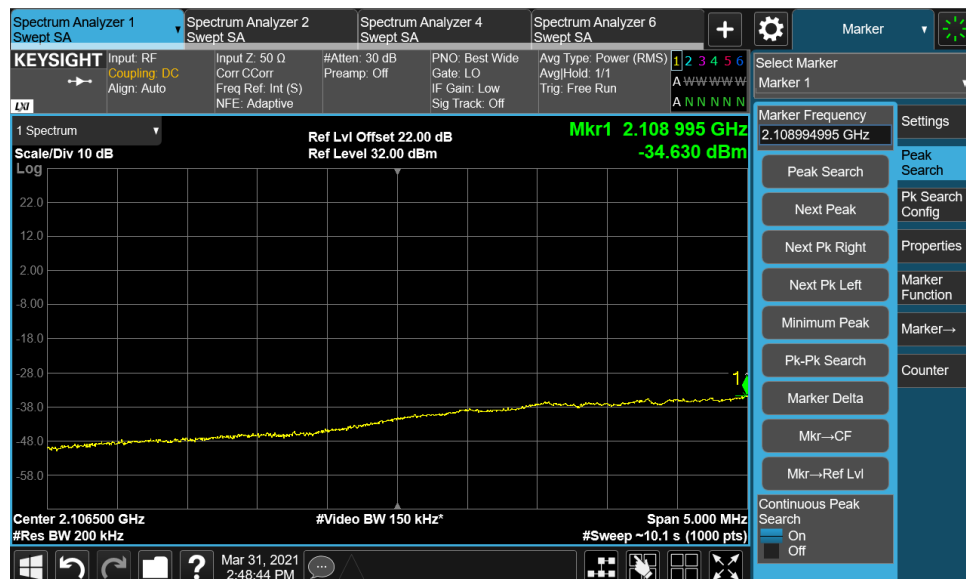
5.3 Measurement result

NR mode:

NR-MIMO-1C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
B	B	16QAM	5	51	-19.02
				200	-26.01
B	T	16QAM	5	51	-19.02
				200	-26.01

Channel Position B



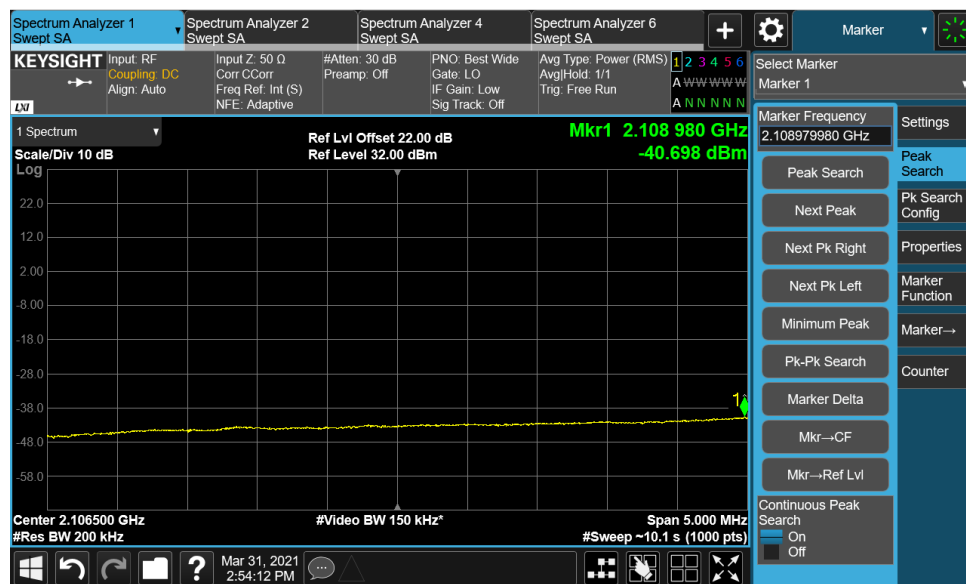
Channel Position T



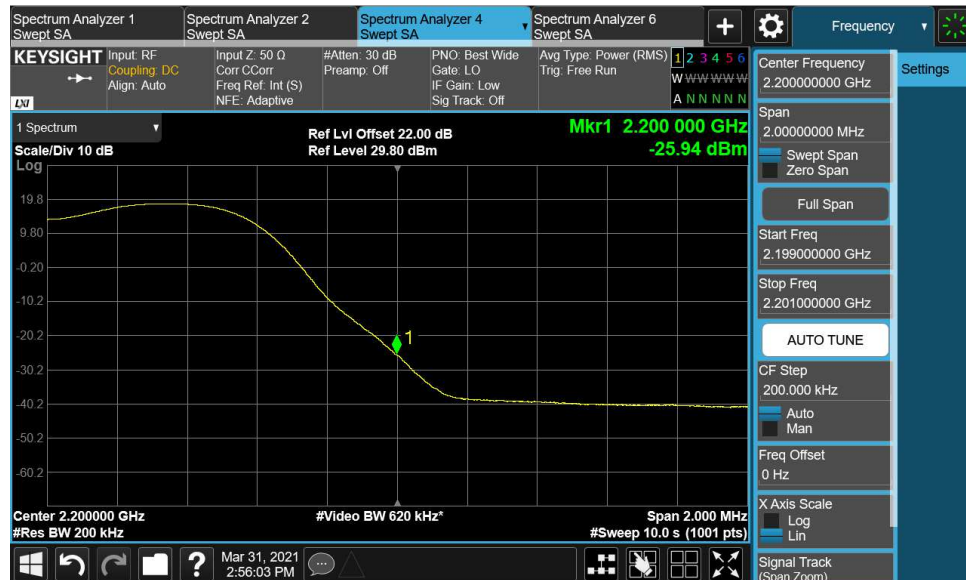
TEST REPORT

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
B	B	16QAM	20	200	-19.02
				200	-26.01
B	T	16QAM	20	200	-19.02
				200	-26.01

Channel Position B



Channel Position T

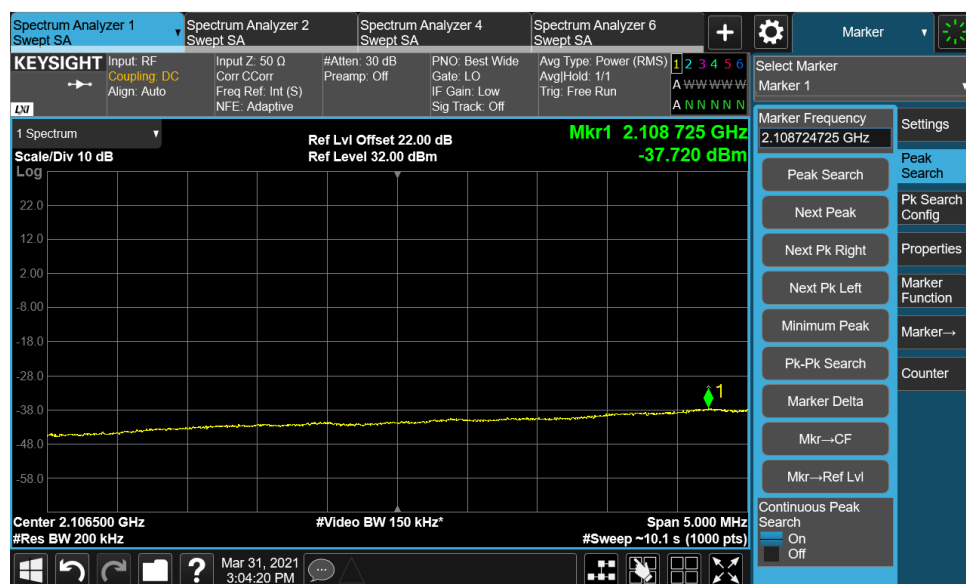
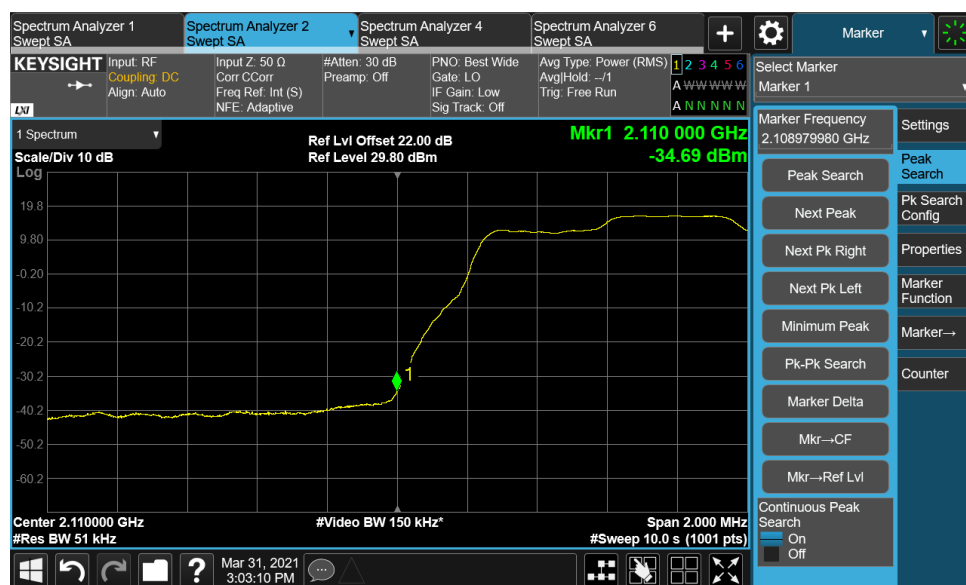


TEST REPORT

Configuration NR-MIMO-2C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
B	B	16QAM	5	51	-19.02
				200	-26.01
B	T	16QAM	5	51	-19.02
				200	-26.01

Channel Position B



Channel Position T



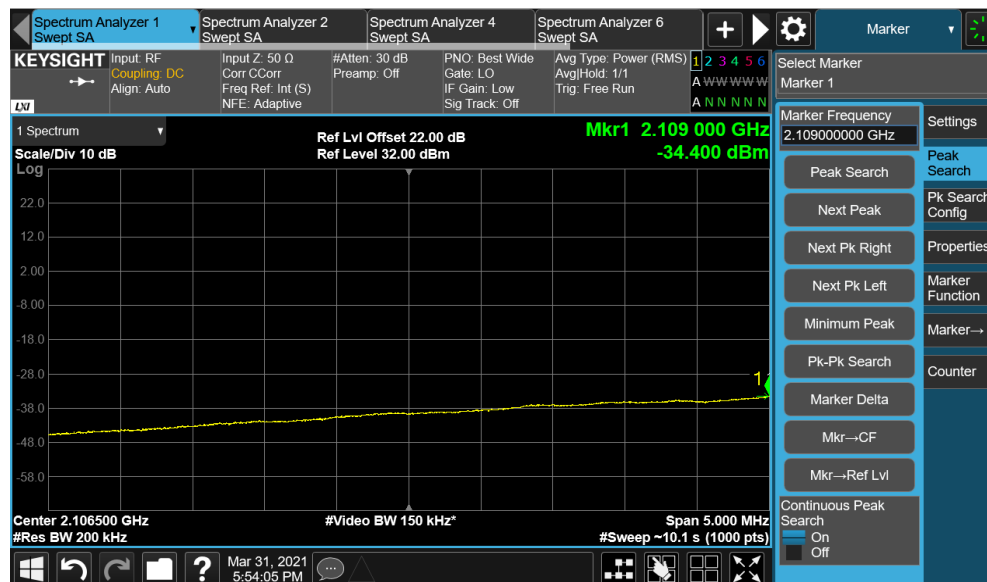
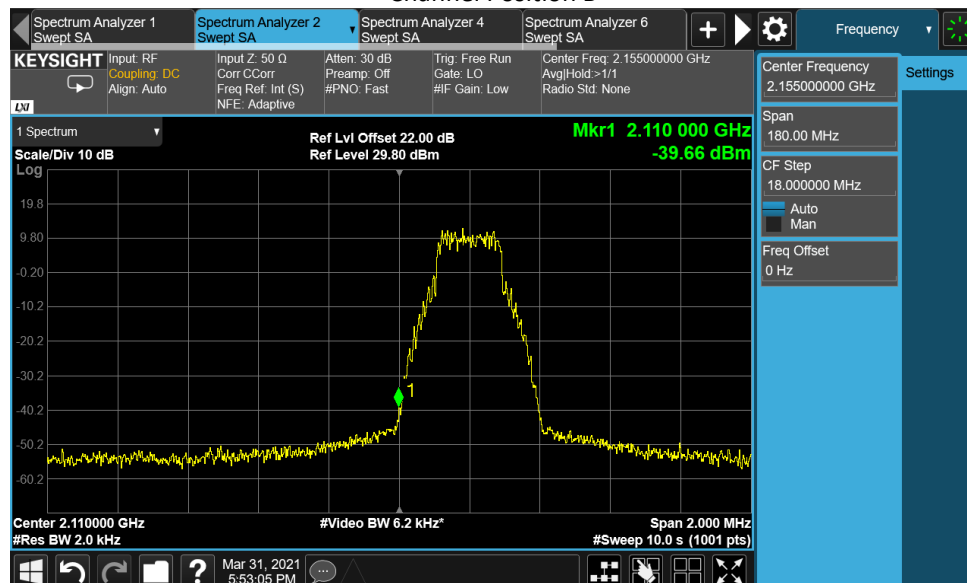
TEST REPORT

SA mode:

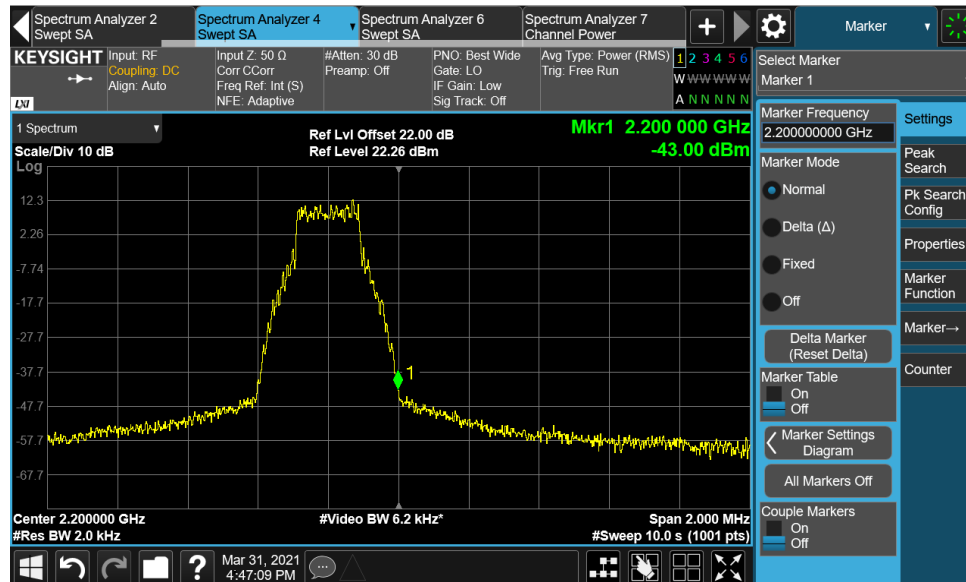
Configuration NB-SA-1C

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
B	B	QPSK	0.2	2	-19.02
				200	-26.01
B	T	QPSK	0.2	2	-19.02
				200	-26.01

Channel Position B



Channel Position T



TEST REPORT

LTE mode:

Configuration LTE-MIMO-1C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
B	B	16QAM	5	51	-19.02
				200	-26.01
B	T	16QAM	5	51	-19.02
				200	-26.01

Channel Position B

