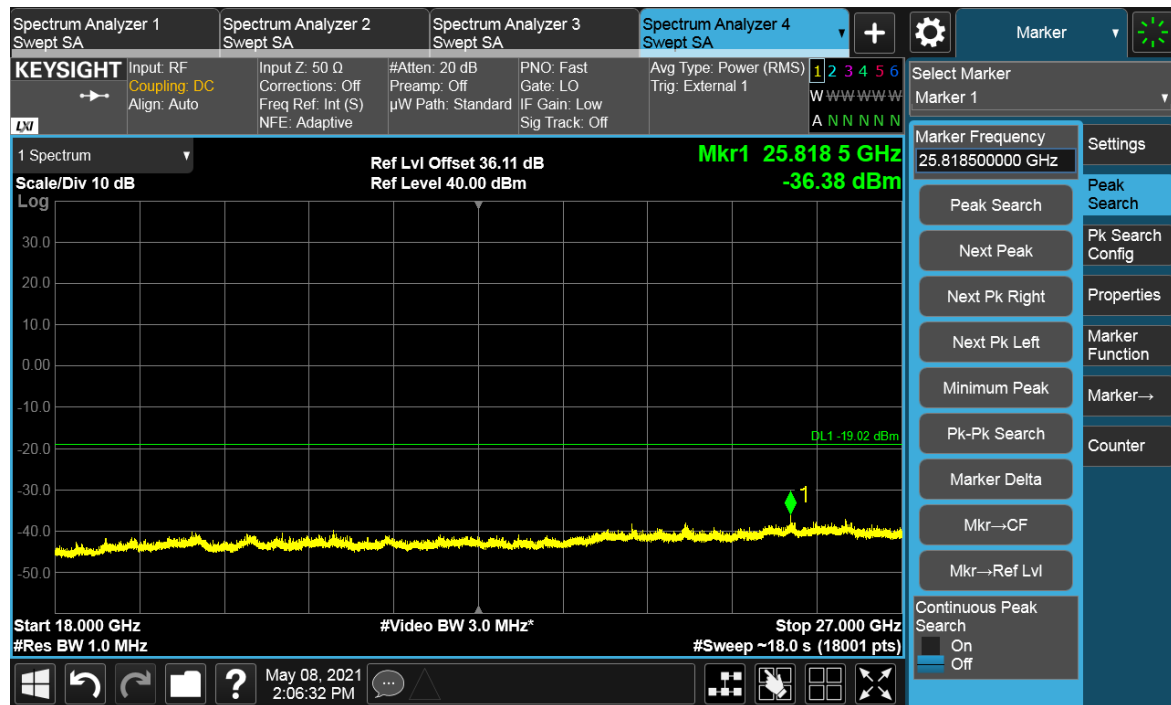
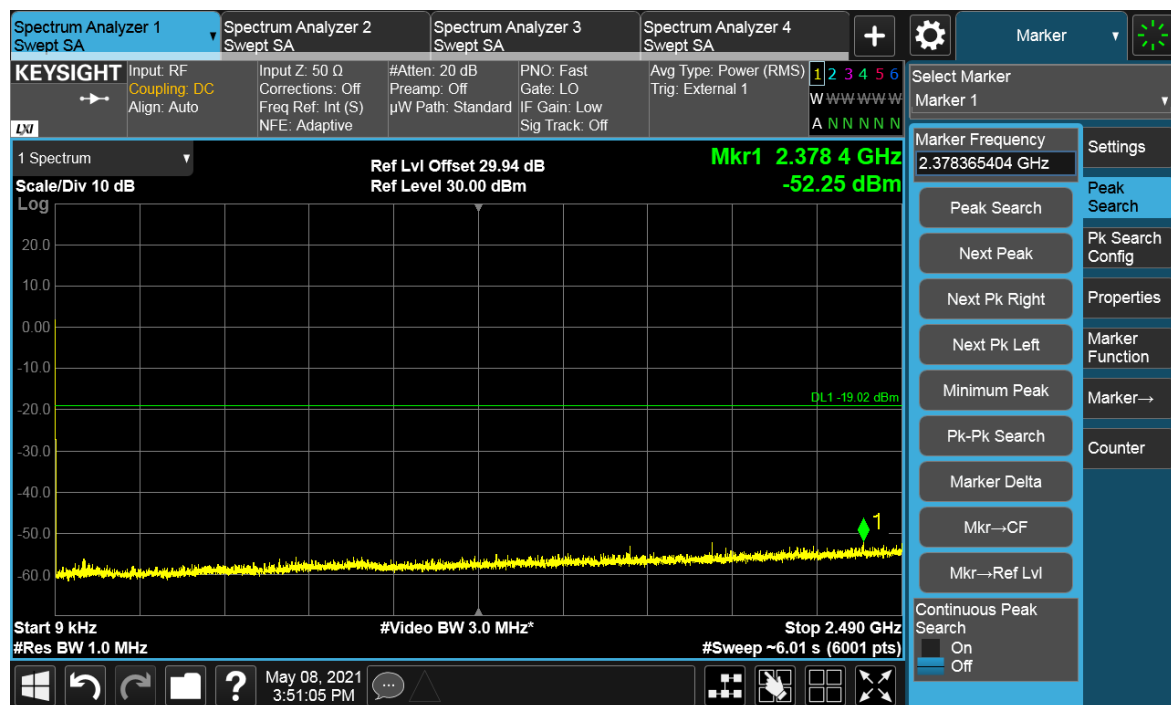


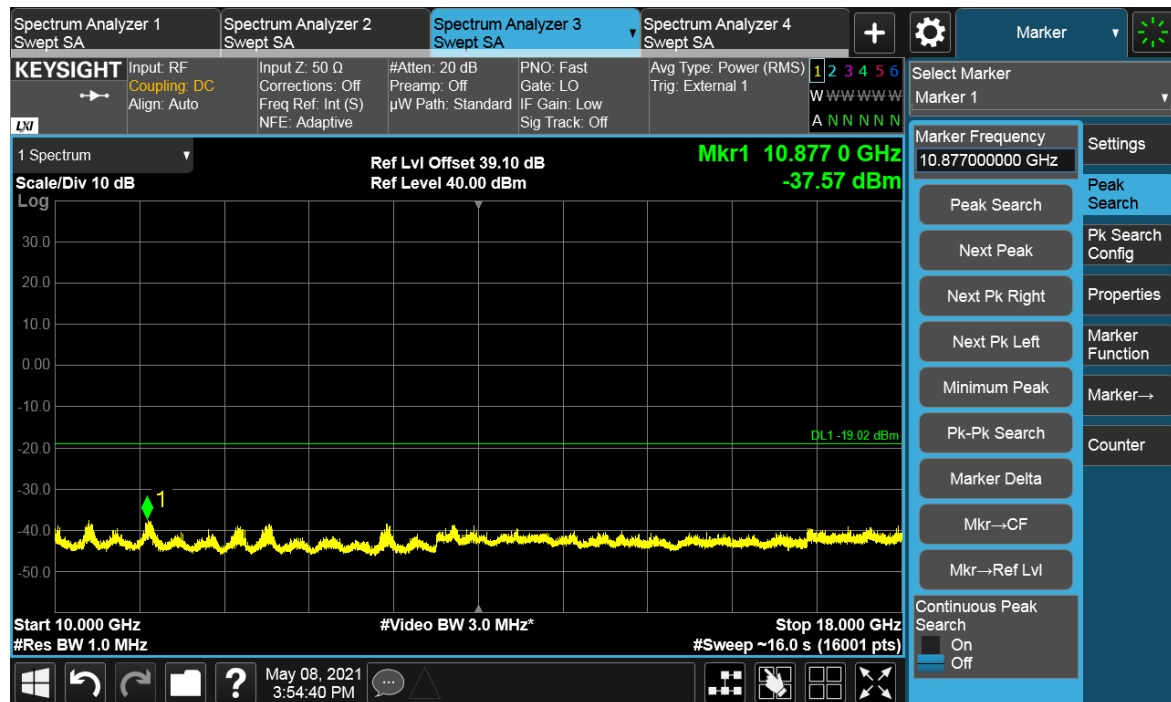
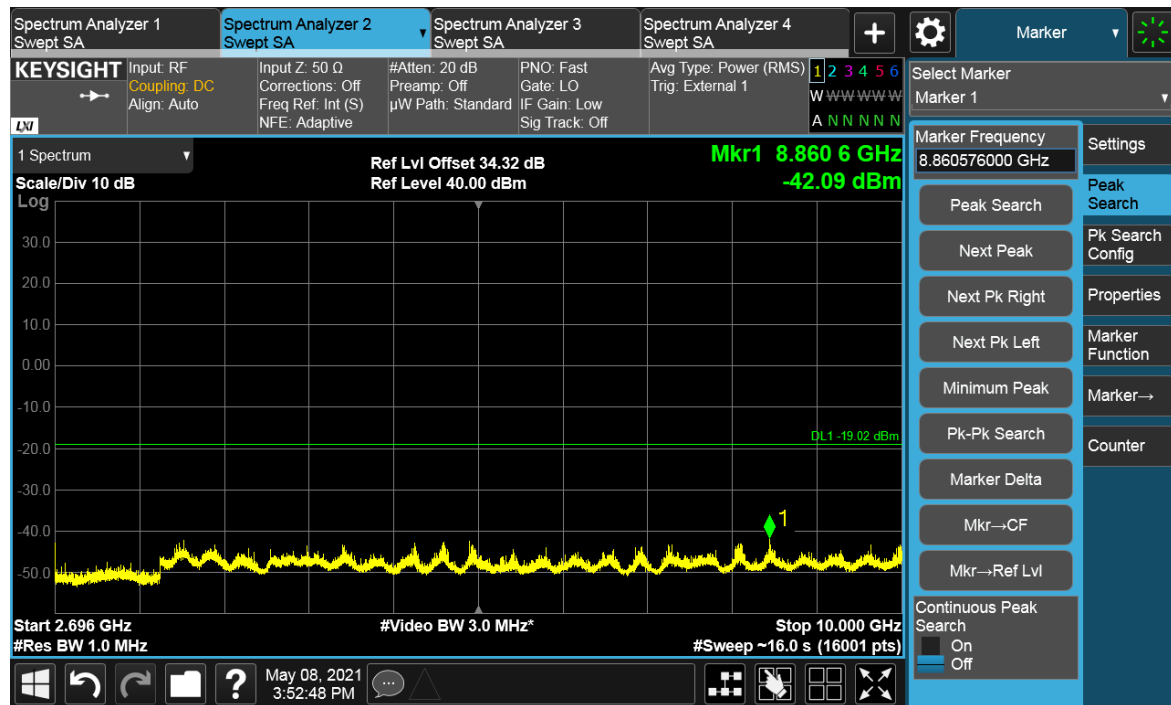
TEST REPORT



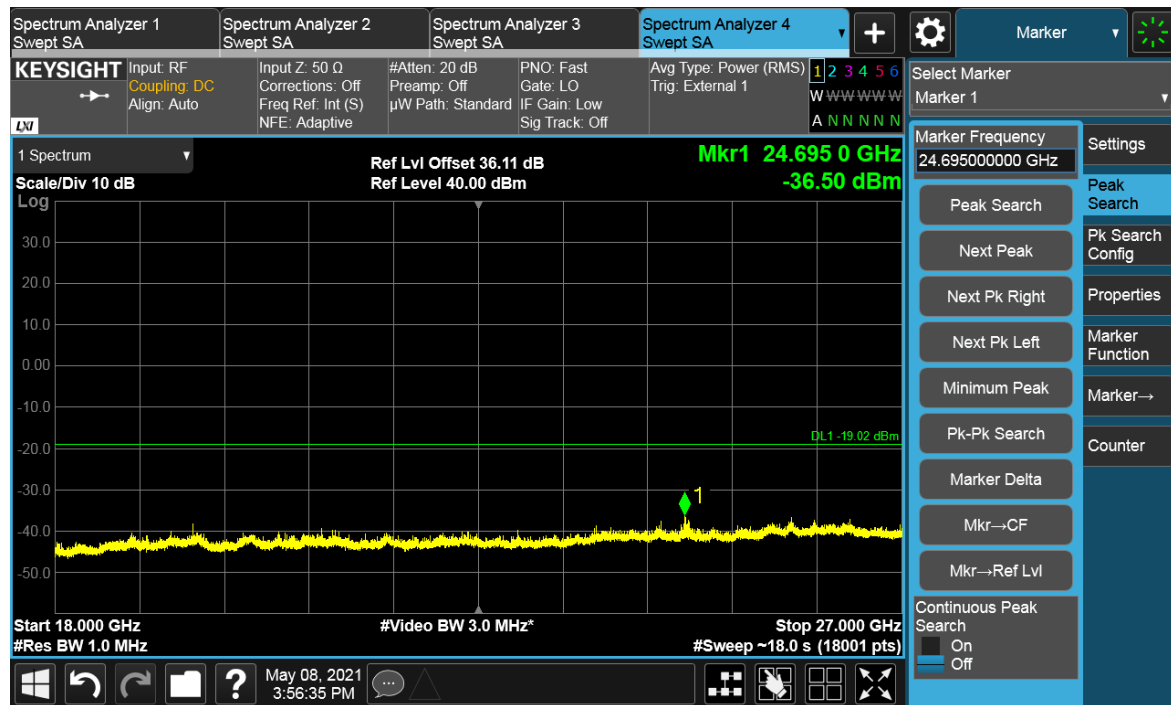
Channel Position T



TEST REPORT

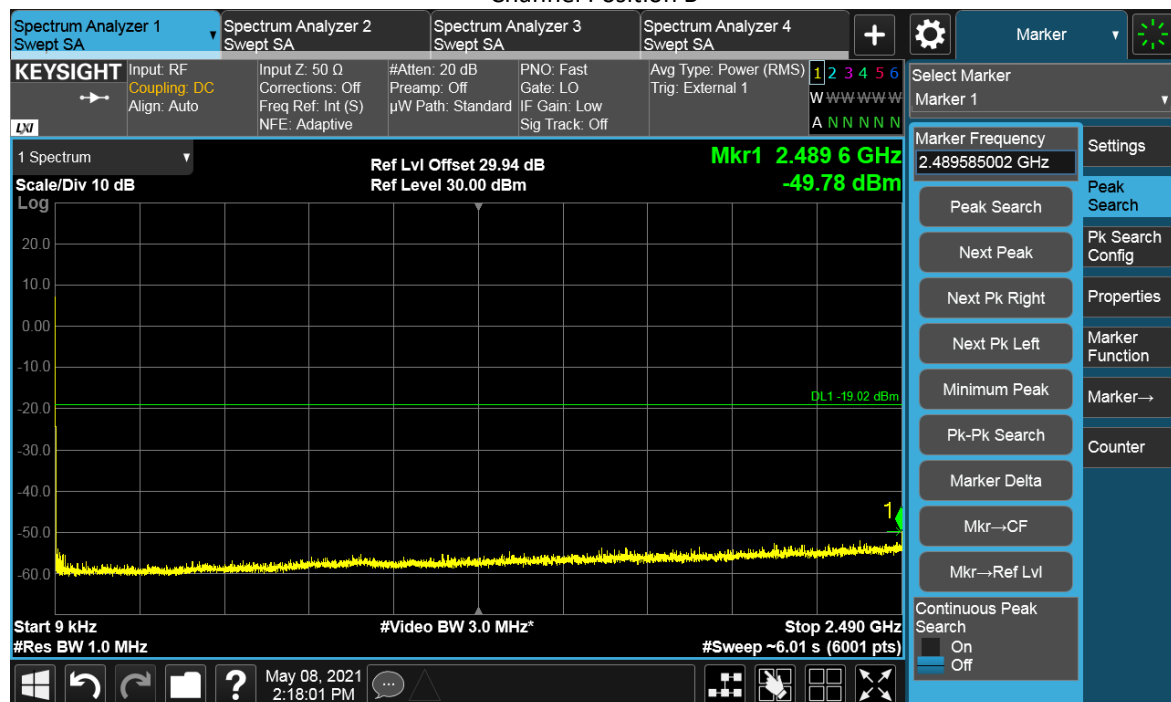


TEST REPORT

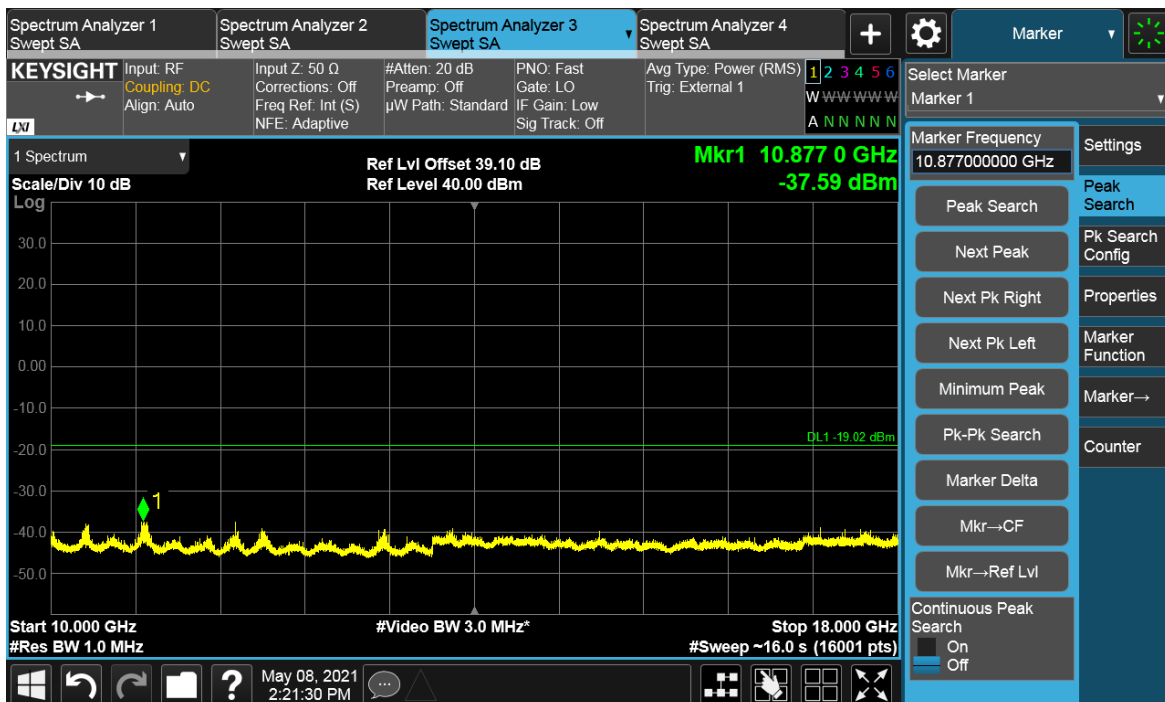
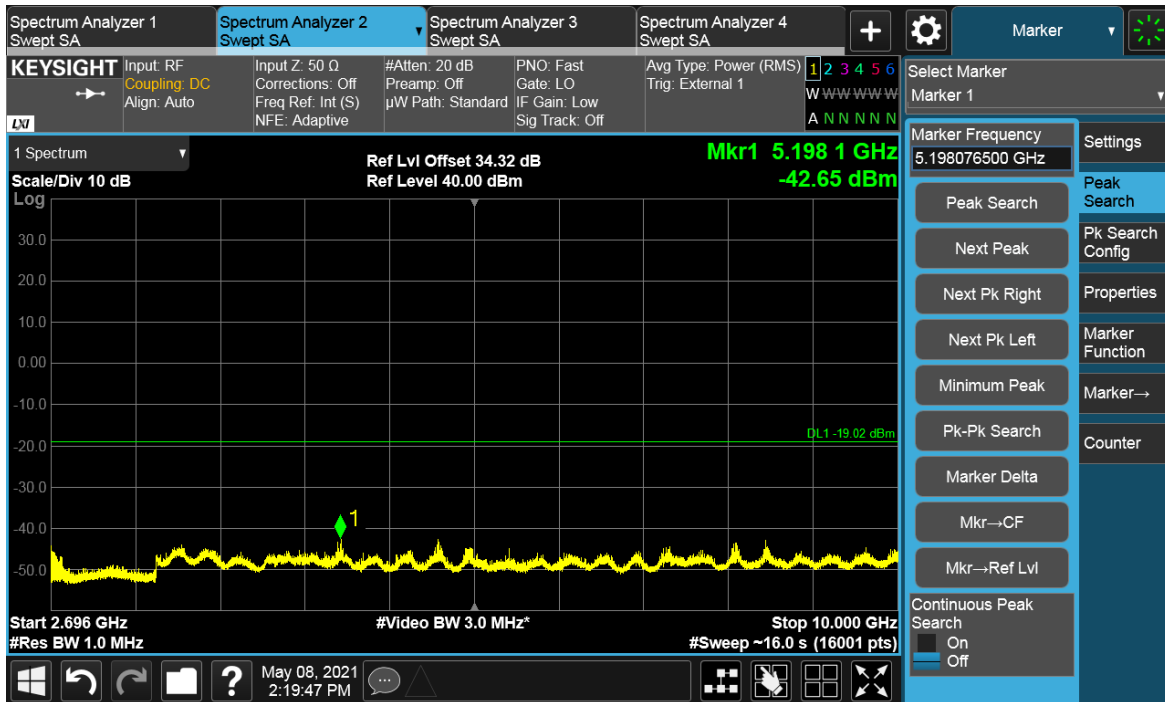


Antenna Port	Channel Position	NR Modulation	LTE Modulation	NR Channel Bandwidth (MHz)	LTE Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
B	M	QPSK	QPSK	20	20	1000	-19.02
T	M	QPSK	QPSK	20	20	1000	-19.02

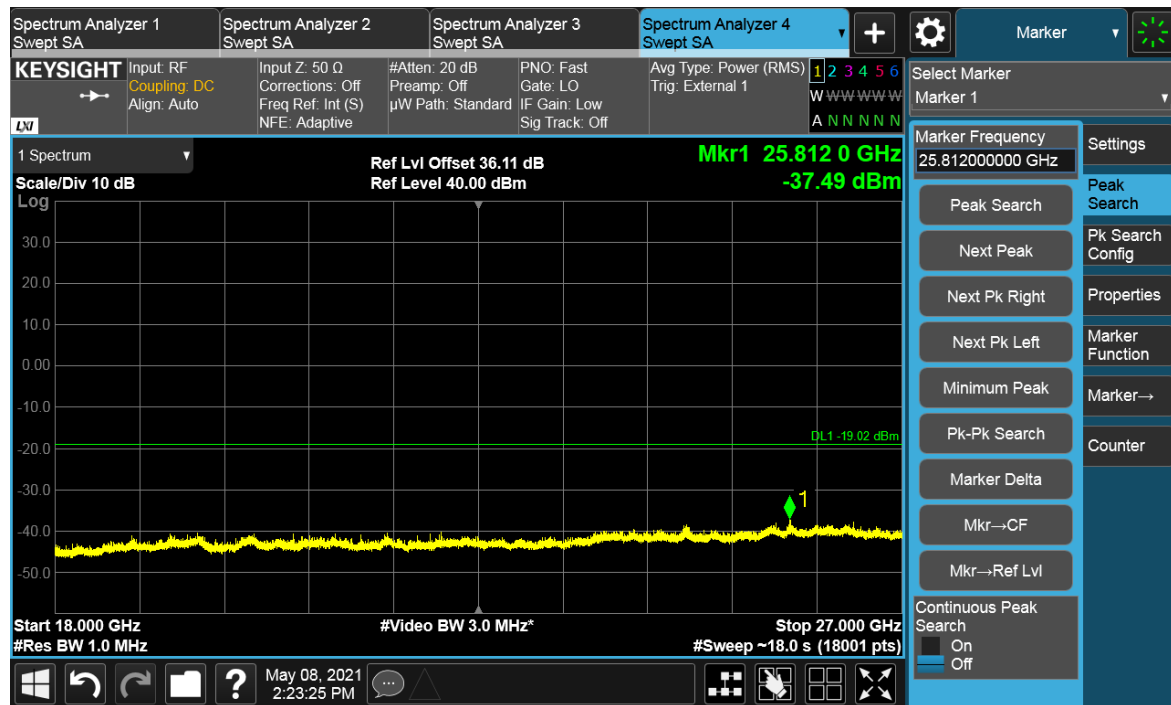
Channel Position B



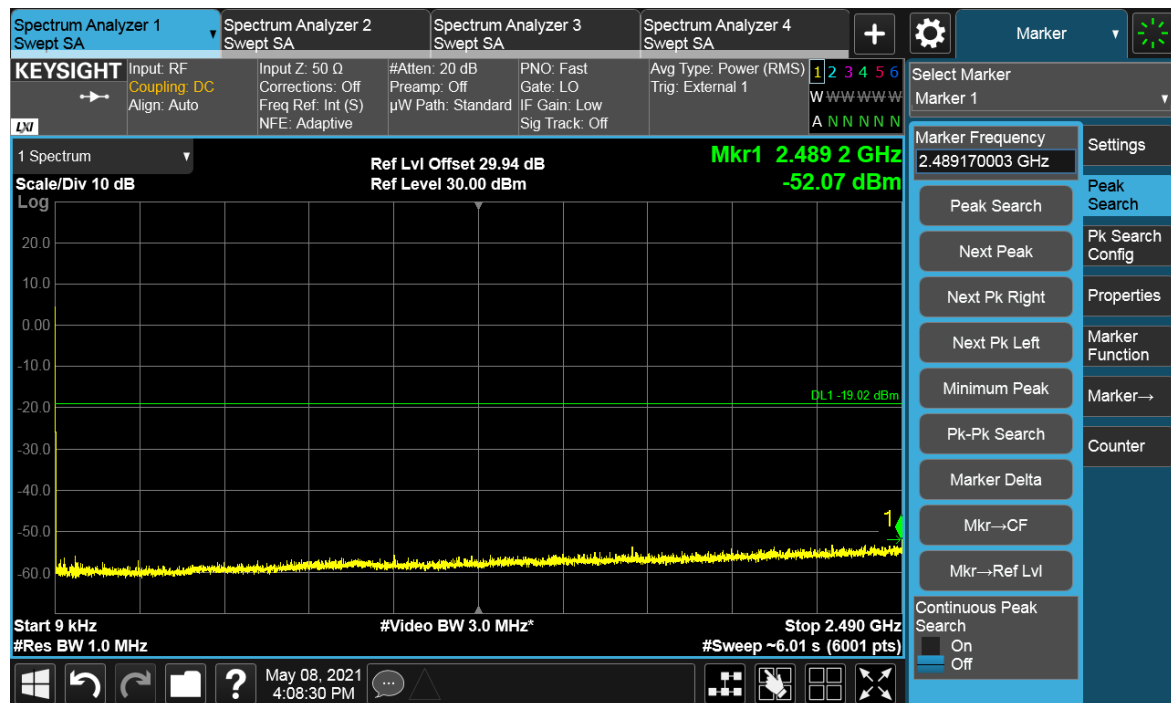
TEST REPORT



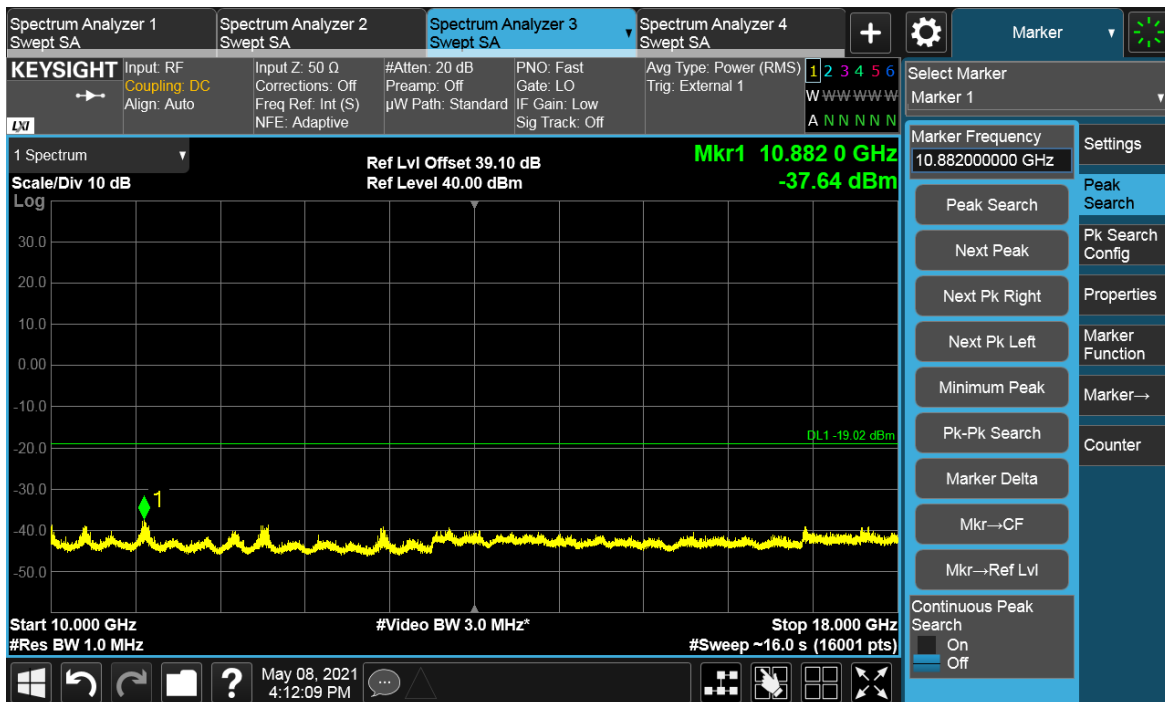
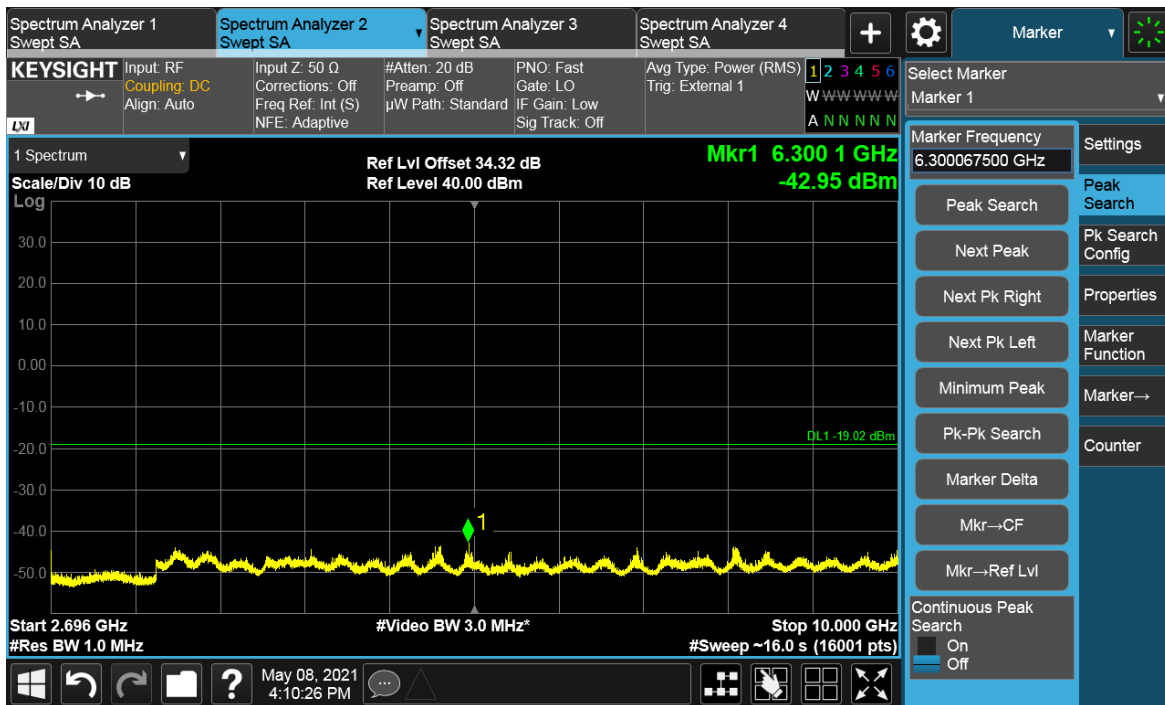
TEST REPORT



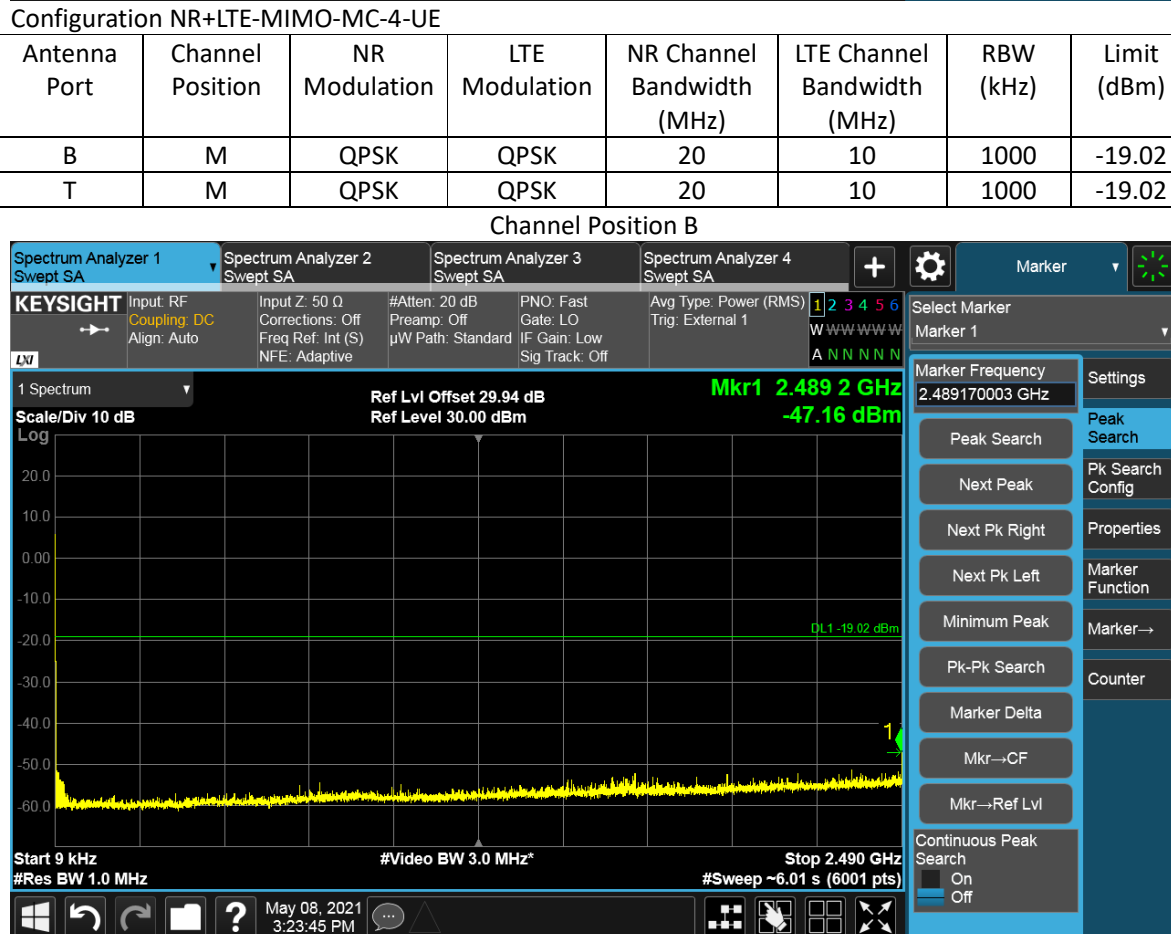
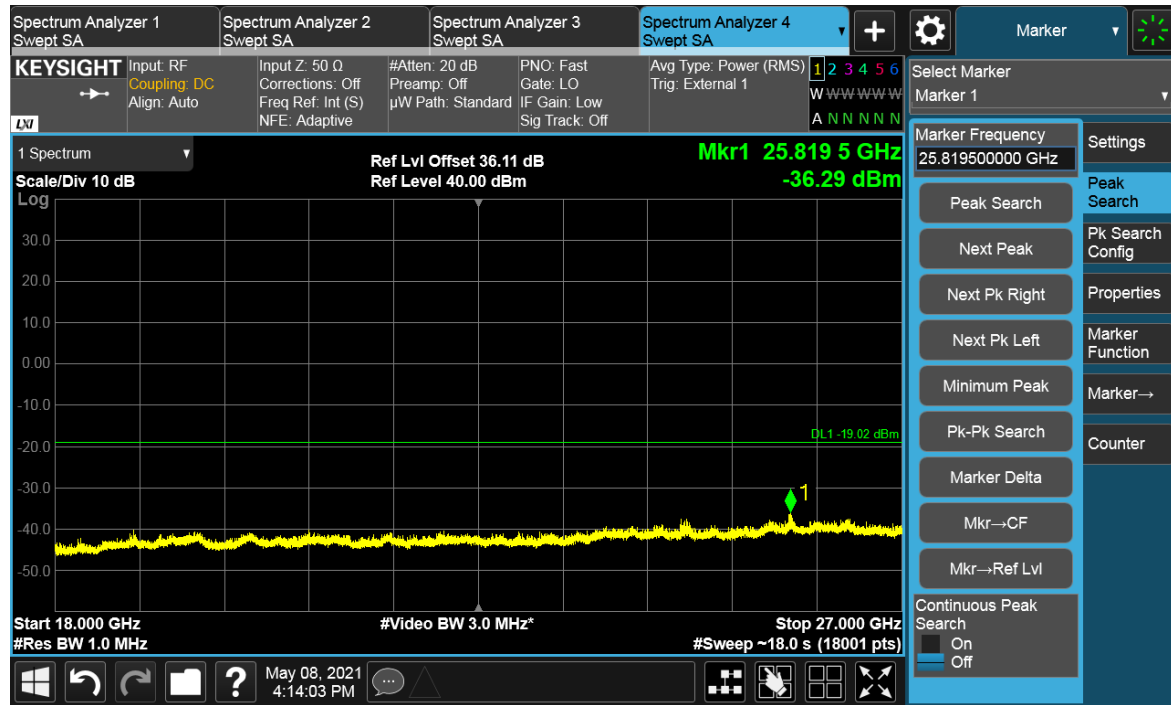
Channel Position T



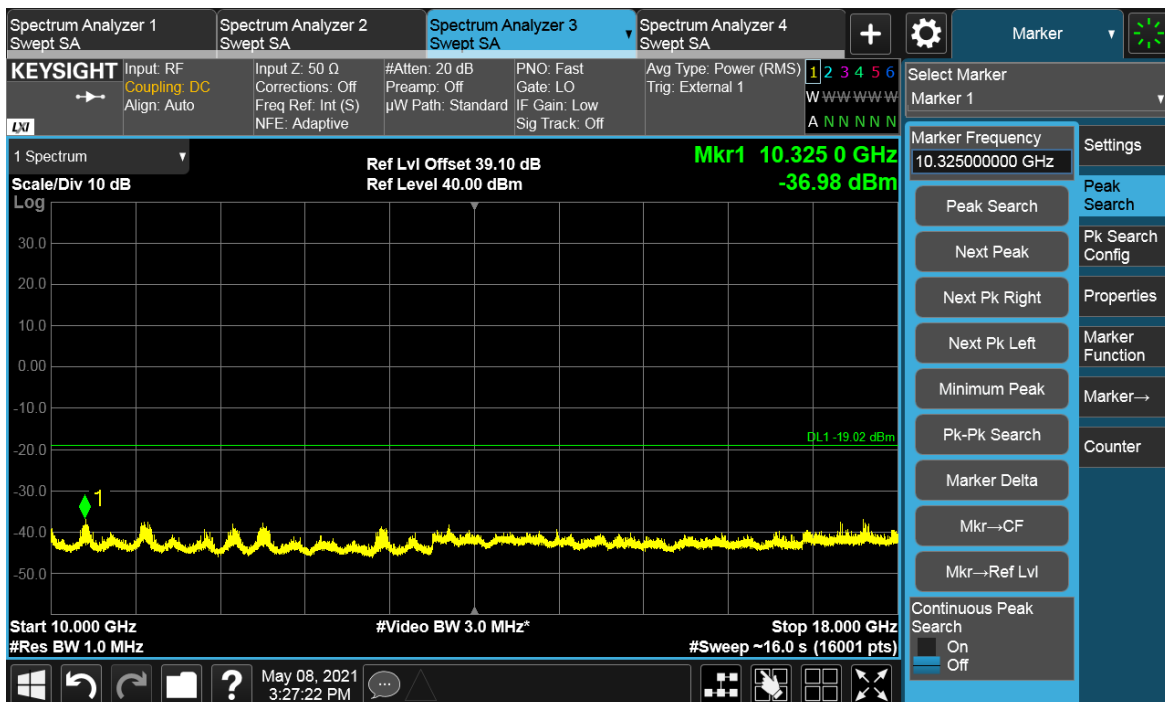
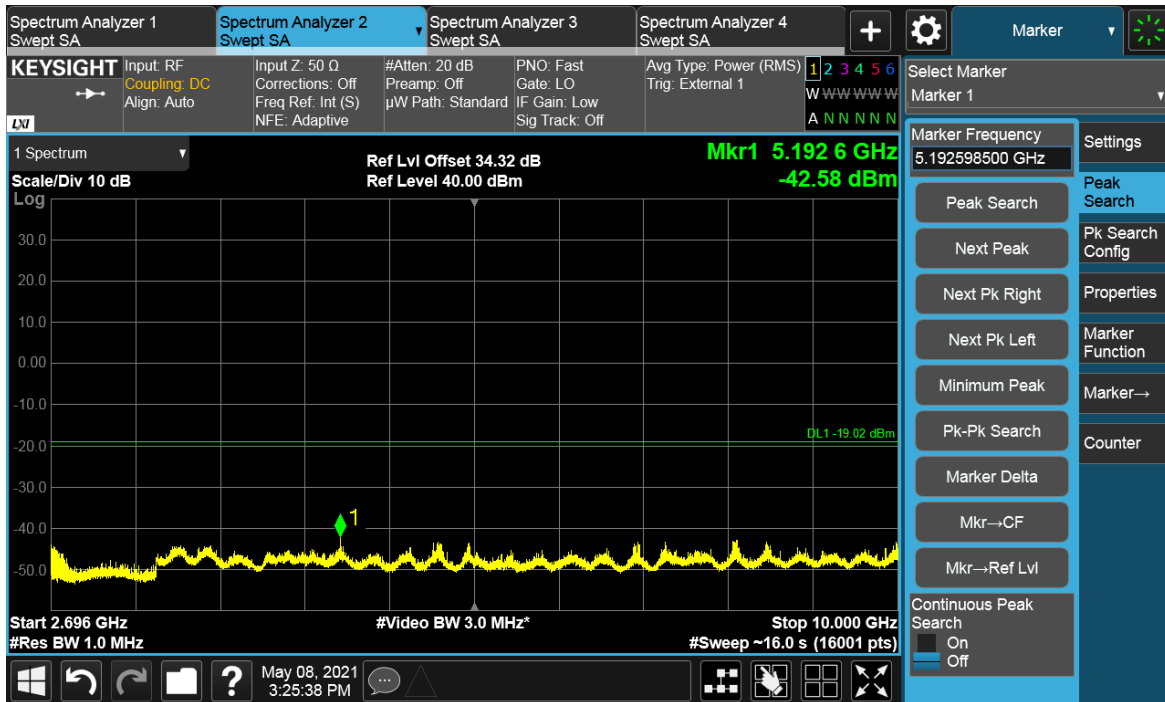
TEST REPORT



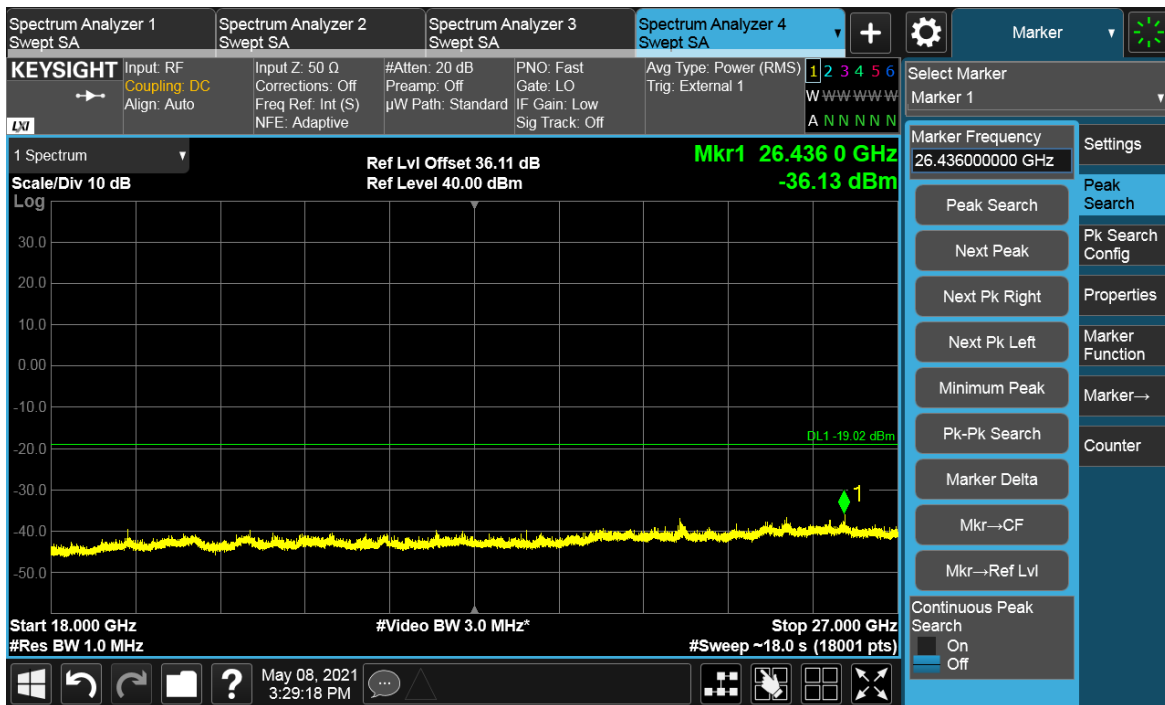
TEST REPORT



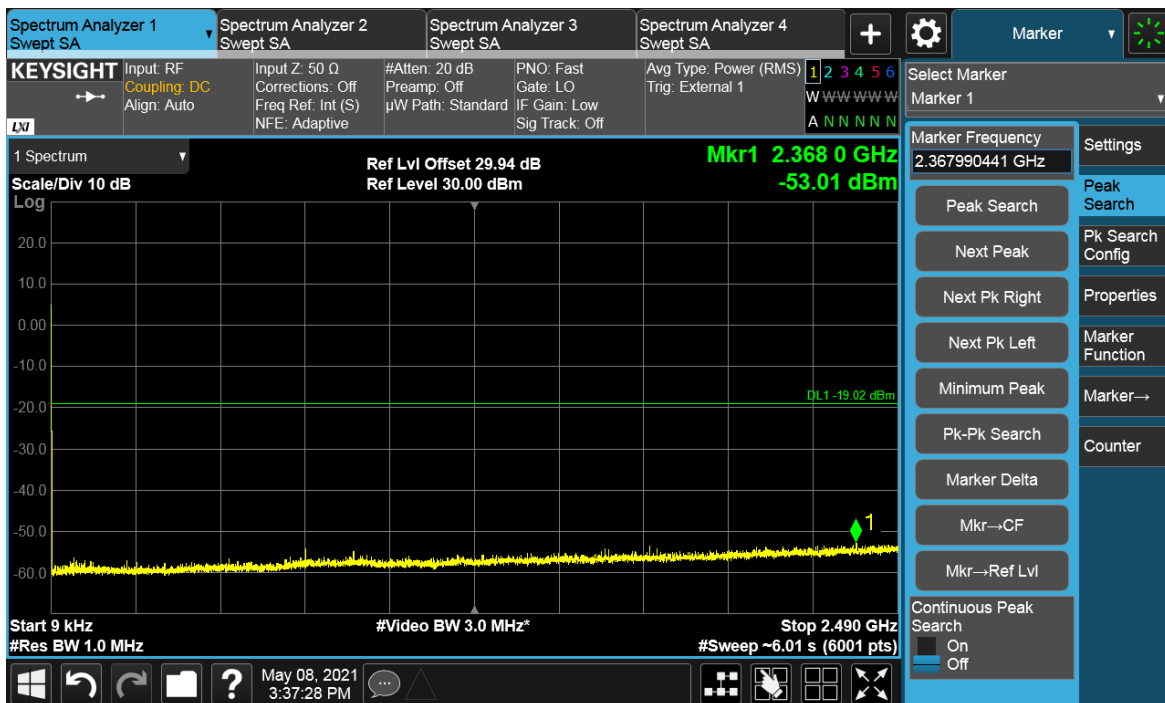
TEST REPORT



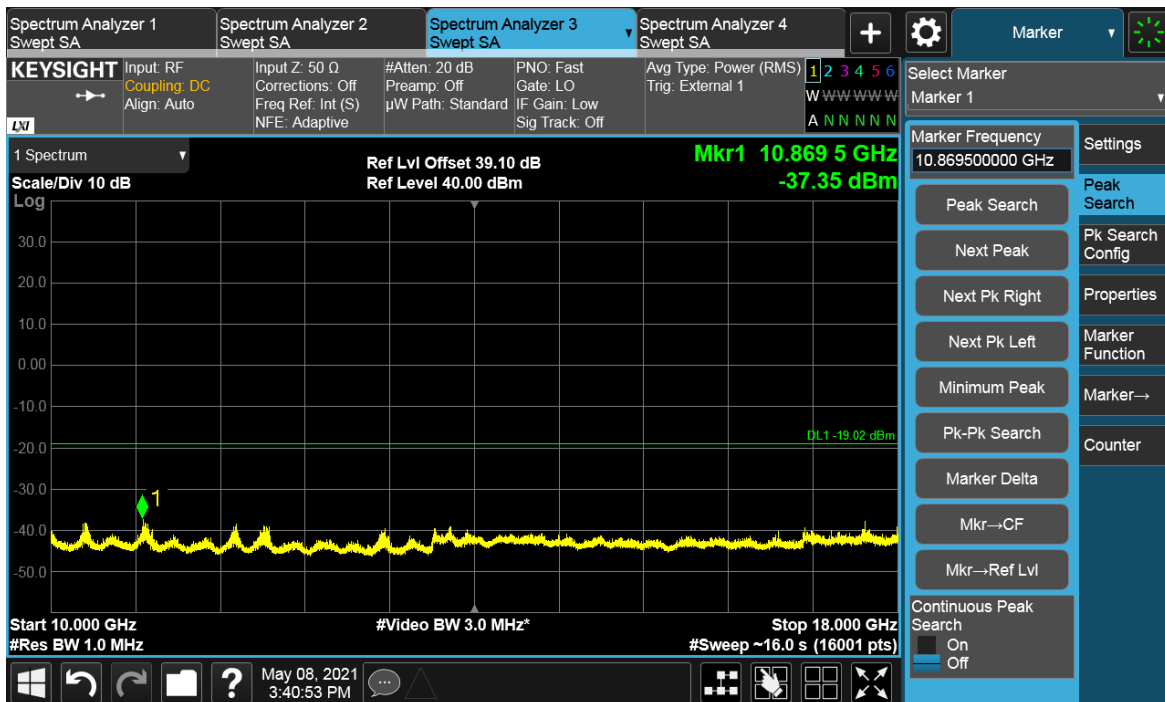
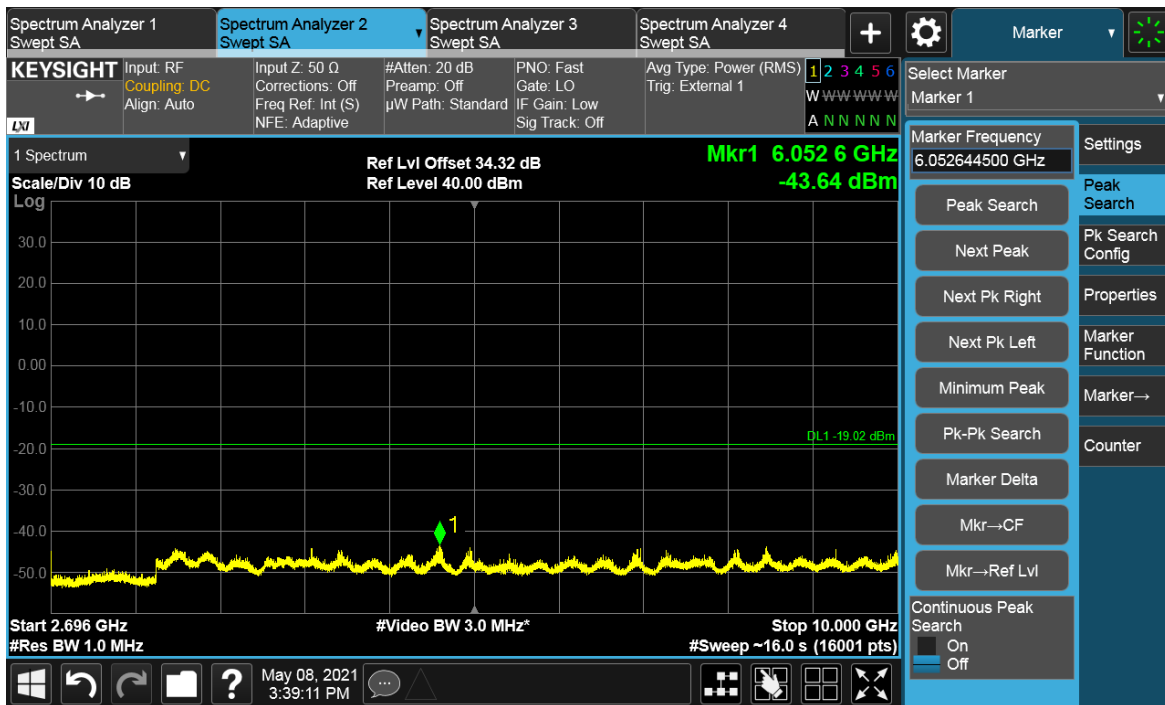
TEST REPORT



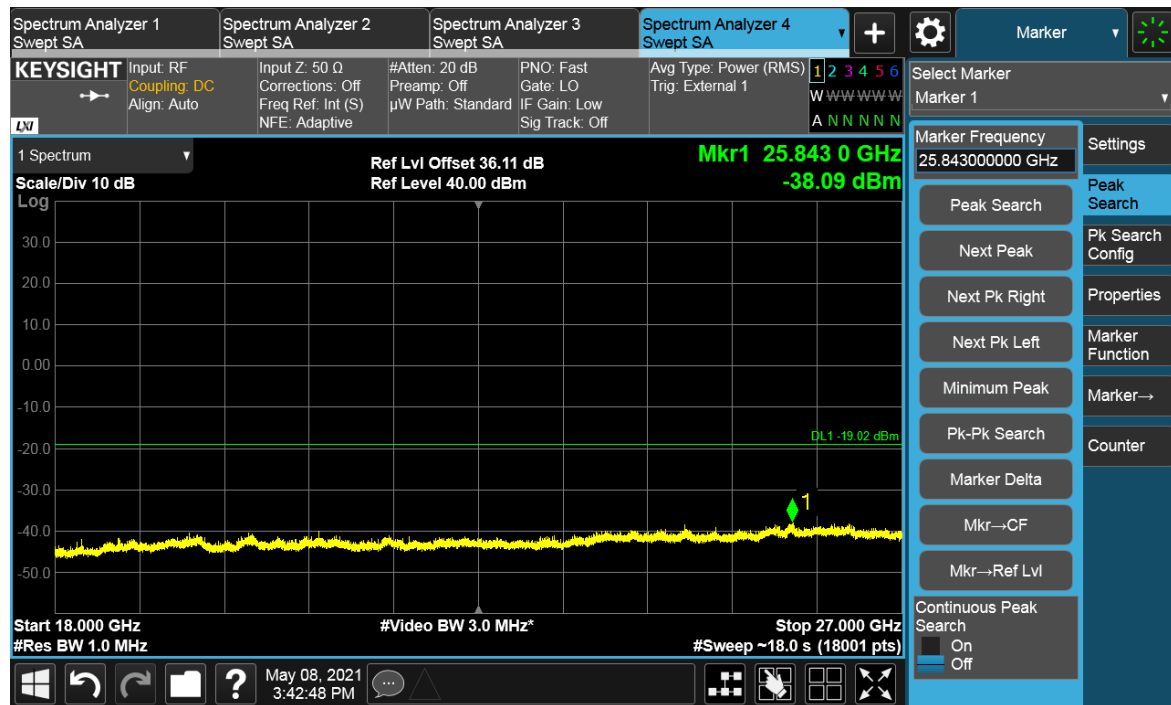
Channel Position T



TEST REPORT

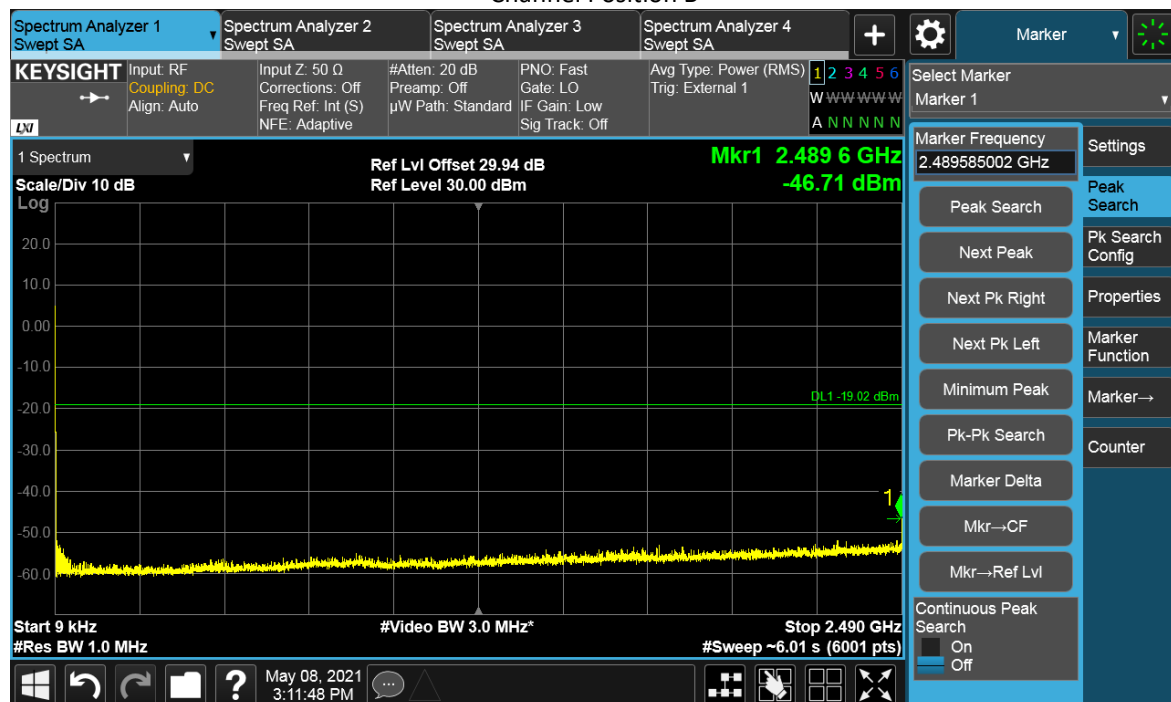


TEST REPORT

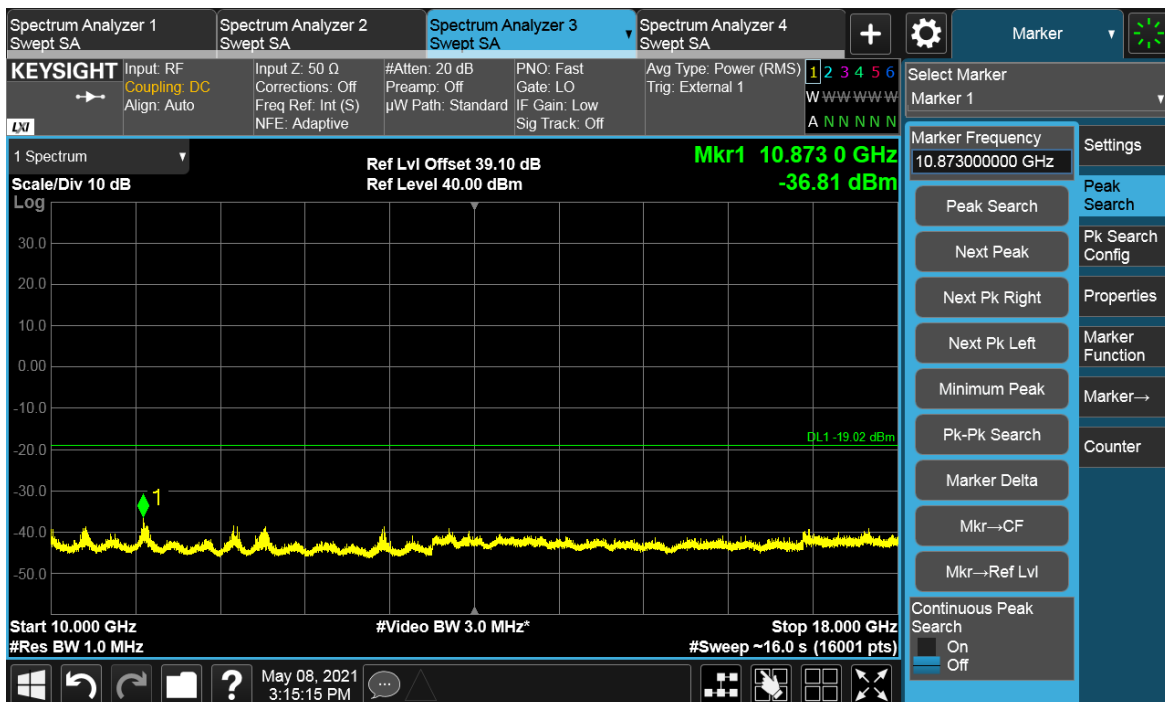
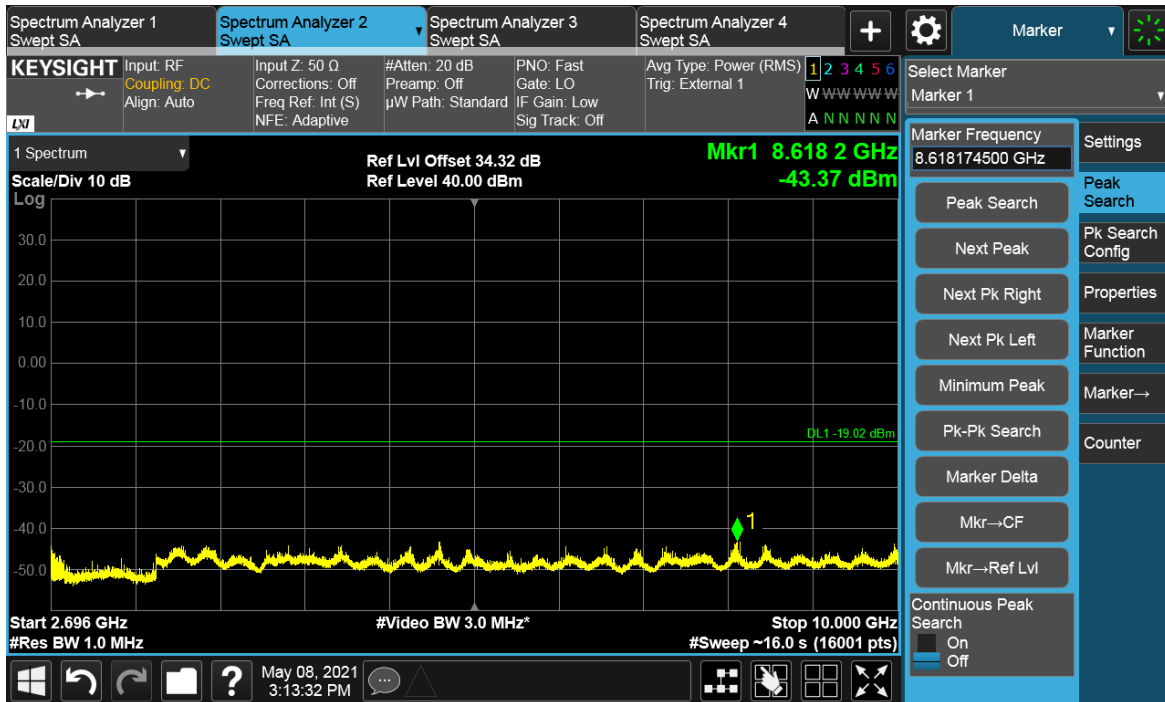


Antenna Port	Channel Position	NR Modulation	LTE Modulation	NR Channel Bandwidth (MHz)	LTE Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
B	M	QPSK	QPSK	20	20	1000	-19.02
T	M	QPSK	QPSK	20	20	1000	-19.02

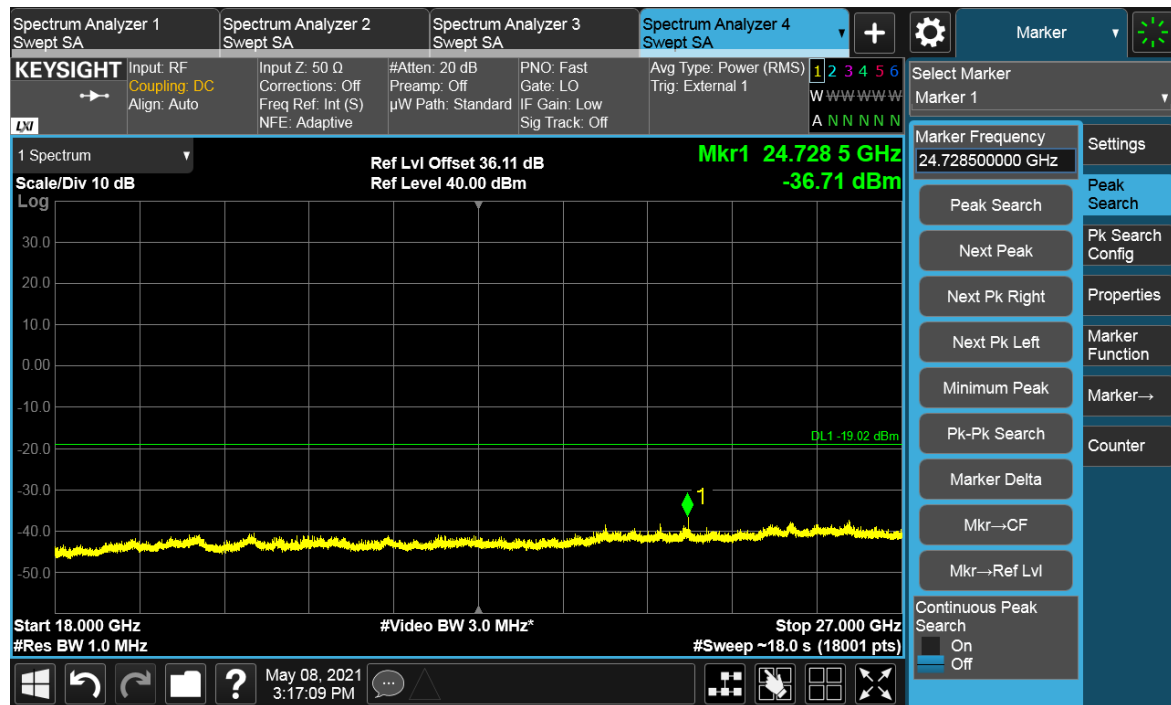
Channel Position B



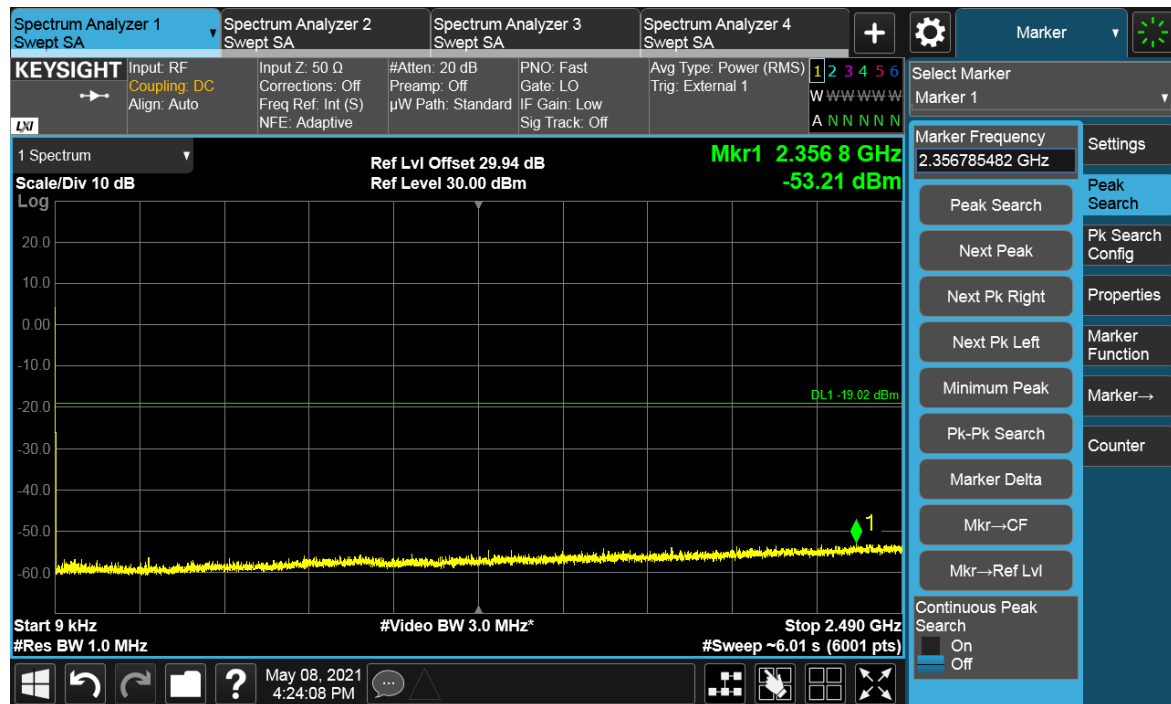
TEST REPORT



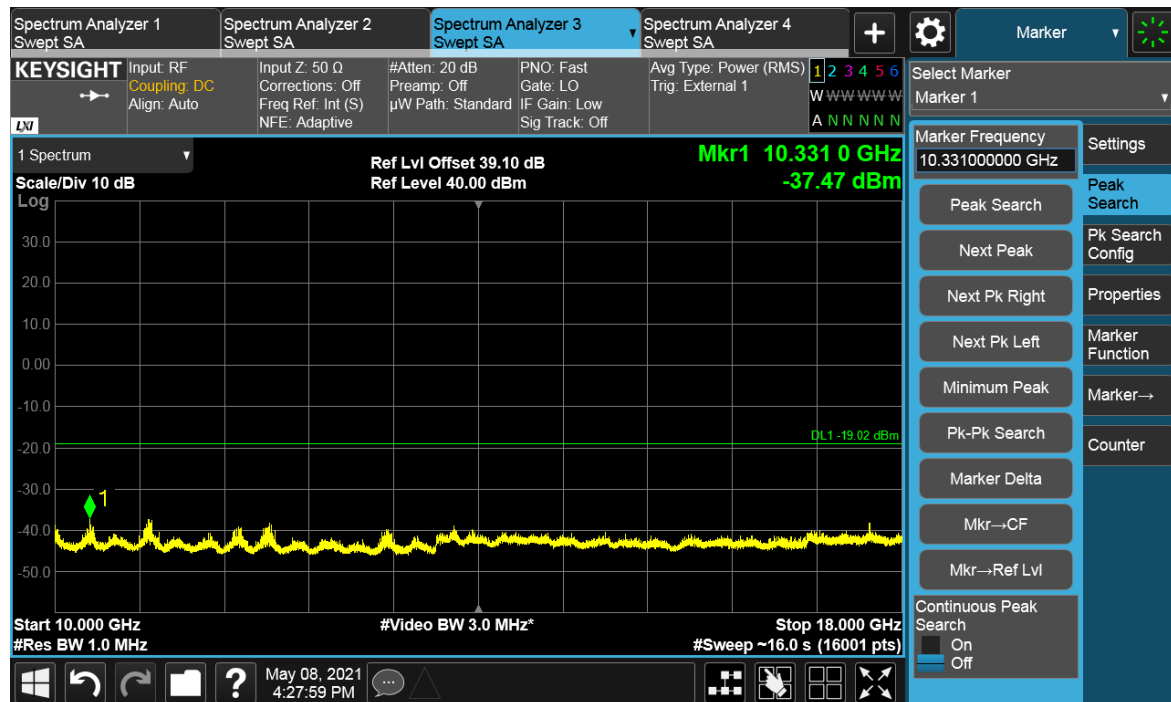
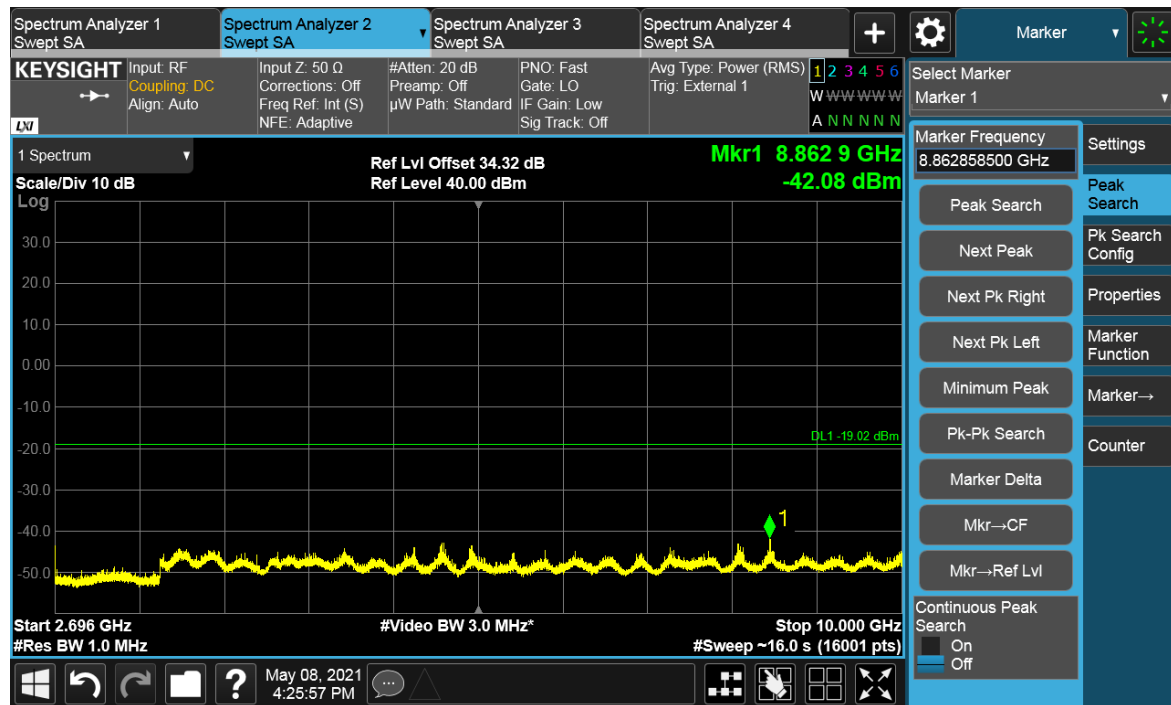
TEST REPORT



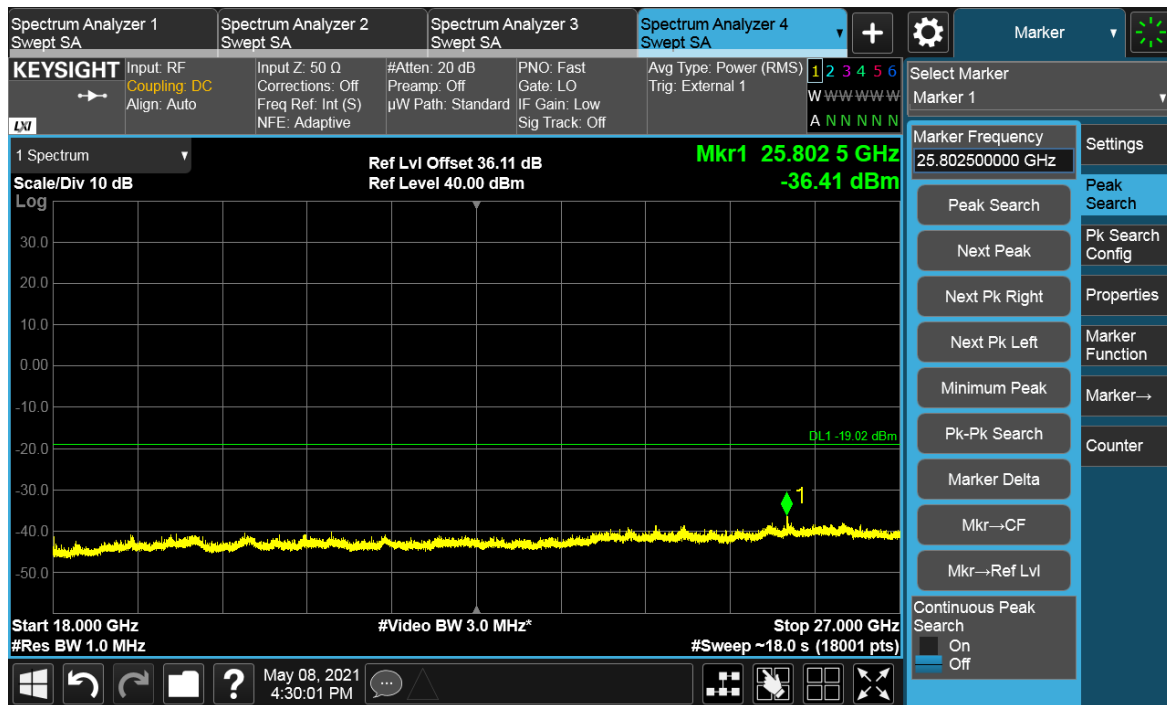
Channel Position T



TEST REPORT



TEST REPORT



TEST REPORT

7 Radiated Unwanted Emission

Test result: Pass

7.1 Limit

The field strength of the carrier has been calculated assuming that the power is to be fed to a half-wave tuned dipoles as per 2.1053 (a).

$$E(V/m) = (30 \times G_i \times P_o)^{0.5} / d$$

Where

G_i is the antenna gain of ideal half-wave dipoles,

P_o is the power out of the transceiver in W,

d is the measurement distance in meter.

As per FCC Part 27, 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.

Therefore, the limit at 3m measurement distance is:

$$E(V/m) = 84.4 \text{ dB}\mu\text{V/m}$$

These limits have been used to determine Pass or Fail for the harmonics measured and detailed in the following results.

7.2 Measurement Procedure

This measurement is carried out in semi-anechoic chamber.

A preliminary profile of the Spurious Radiated Emissions was obtained by operating the EUT on a remotely controlled turntable within the chamber. Measurements of emissions from the EUT were obtained with the measurement antenna in both horizontal and vertical polarizations.

Emissions identified within the range 30MHz to 27GHz were then formally measured using a peak detector as the worst case.

The limits for outside a licensee's frequency band(s) of operation the power of the spurious emissions have been calculated, as shown below using the following formula:

$$\text{Field Strength of Carrier} - (43 + 10\log(P)) \text{ dB}$$

Where:

Field Strength is measured in dB μ V/m

P is measured Transmitter Power in Watts

The EUT was measured with the antenna height varied between 1 and 4 m with the turntable rotated between 0 and 360 degrees. The emission of any outside a licensee's frequencies within 20dB of the limit were measured with the substitution method used according to the standard.

The measurements were performed at a 3m distance unless otherwise stated.

7.3 Measurement result

KRD 901 215/3:

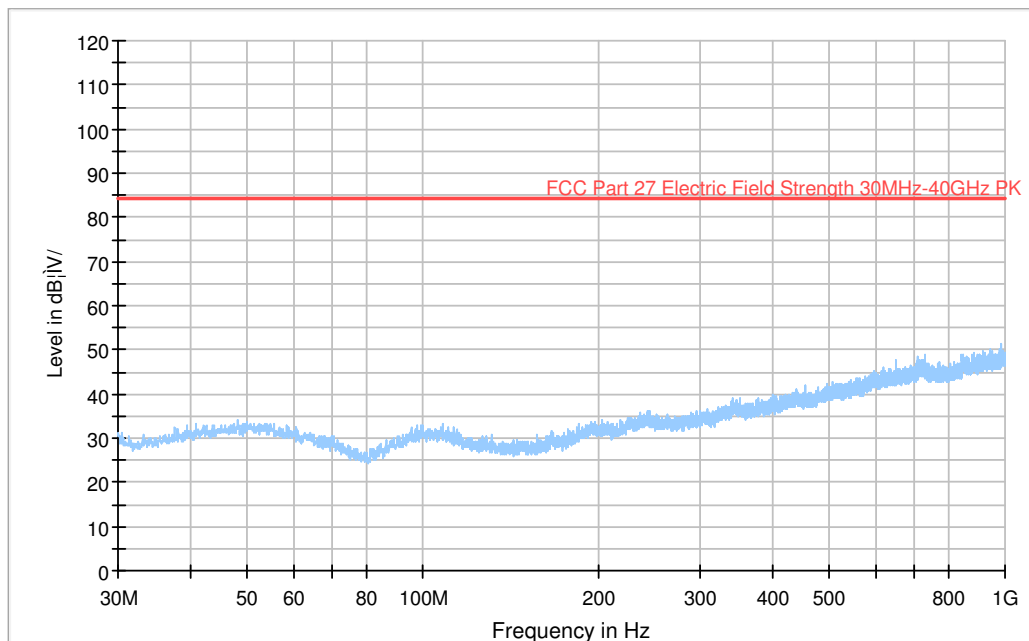
Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
LTE-MIMO-1C	B	1 Carrier	20MHz	QPSK

Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
LTE-MIMO-1C	T	1 Carrier	20MHz	QPSK

Polarization	Frequency (MHz)	Emission level RMS (dB μ V/m)	Limits (dB μ V/m)	Margin (dB μ V/m)
Vertical	2883.738427	61.2	84.4	23.2

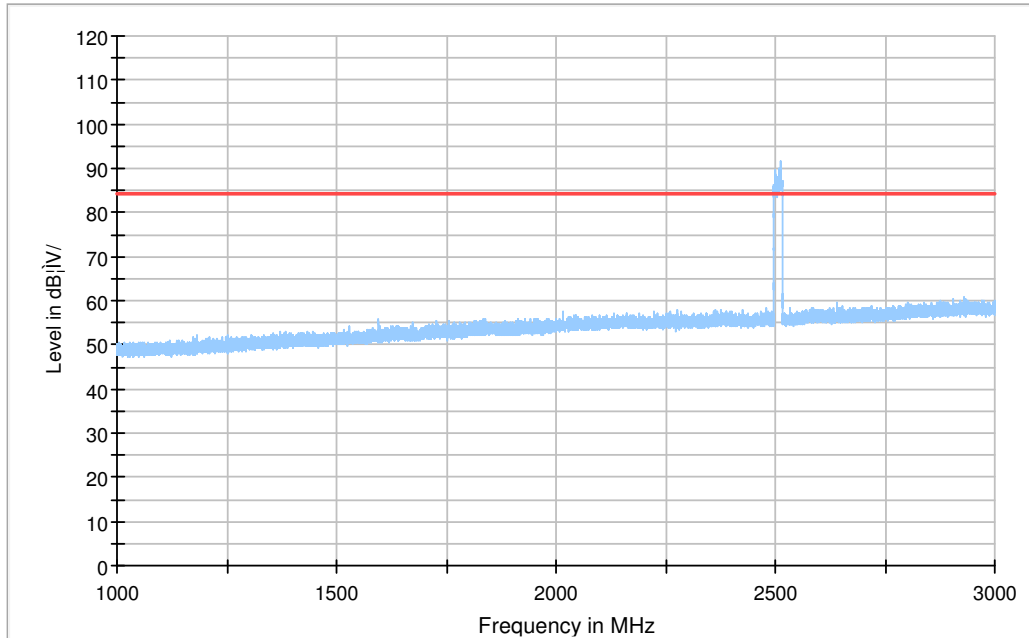
30-1000MHz, Horizontal and Vertical

Full Spectrum



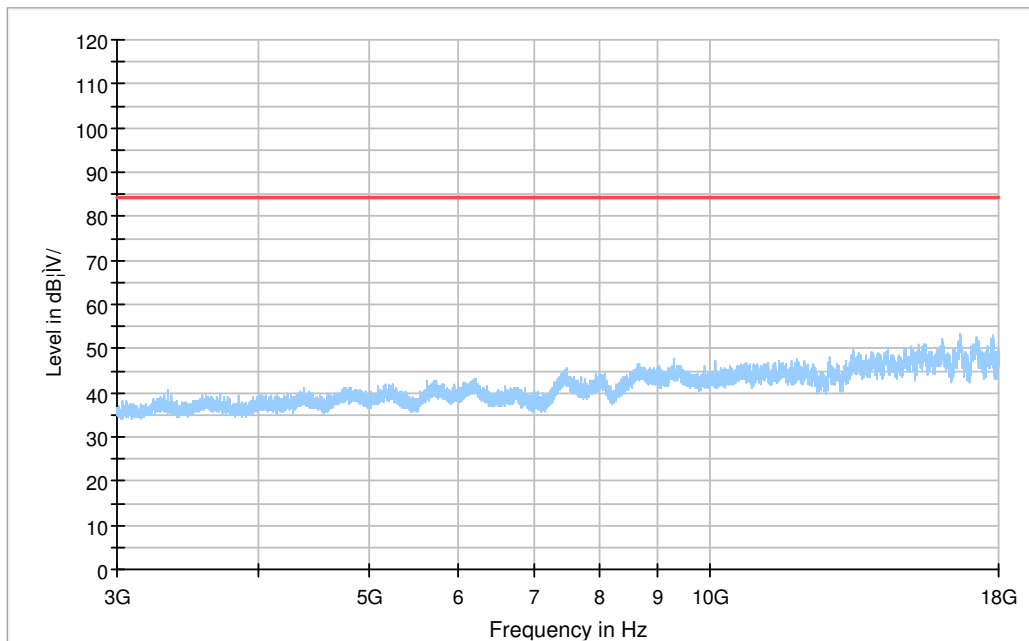
1-3GHz, Horizontal and Vertical

Full Spectrum



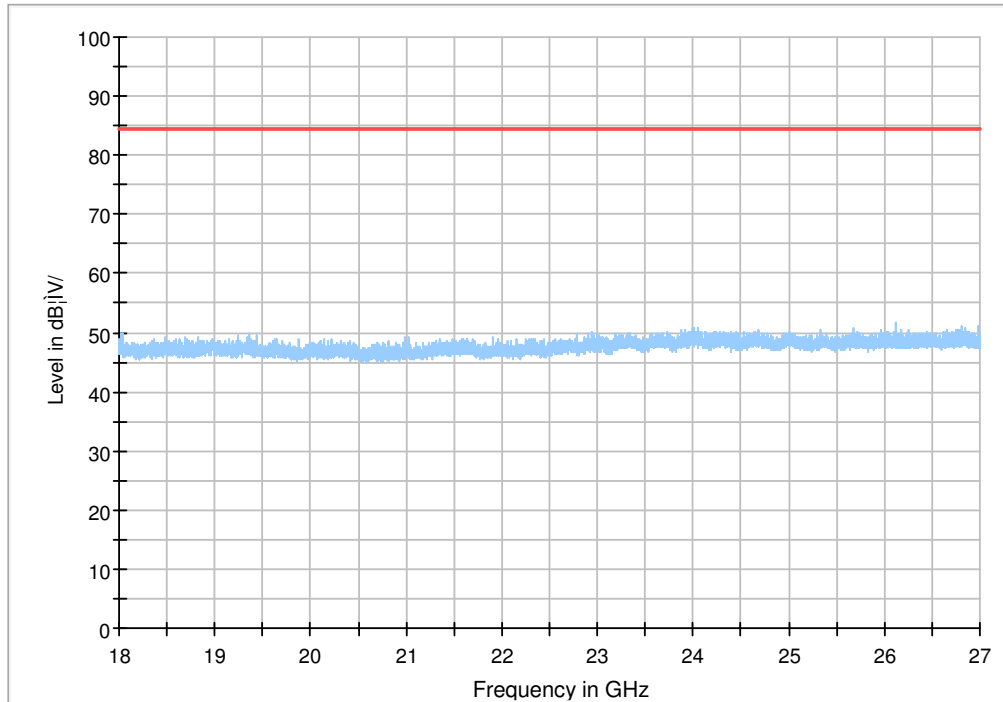
3-18GHz, Horizontal and Vertical

Full Spectrum



18-27GHz, Horizontal and Vertical

Full Spectrum

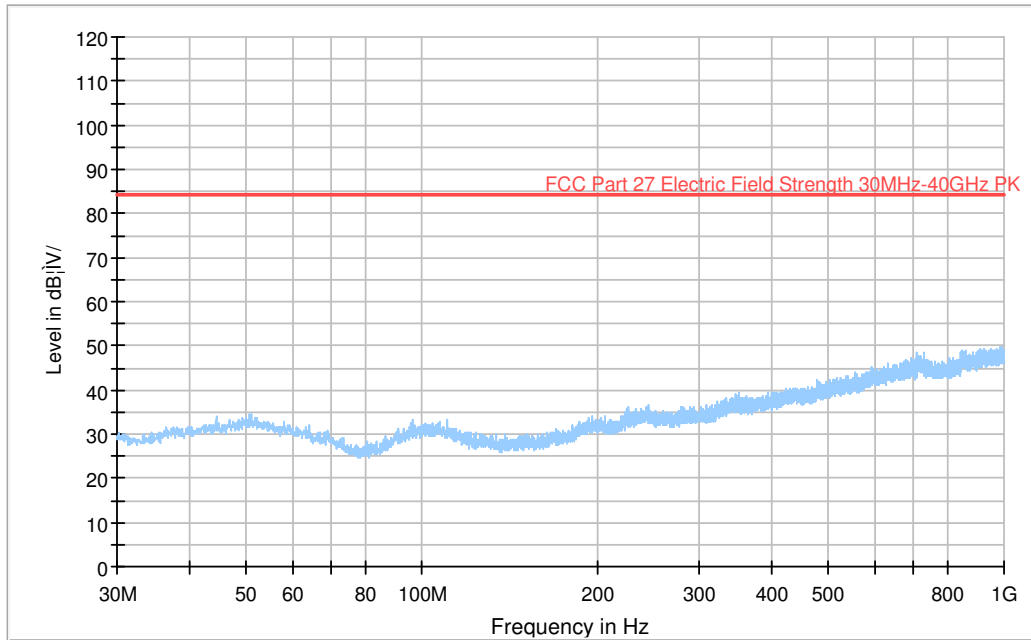


Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
LTE-MIMO-2C	B	2 Carrier	20MHz	QPSK

Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
LTE-MIMO-2C	T	2 Carrier	20MHz	QPSK

Polarization	Frequency (MHz)	Emission level RMS (dBμV/m)	Limits (dBμV/m)	Margin (dBμV/m)
Vertical	2989.258264	61.2	84.4	23.2

30-1000MHz, Horizontal and Vertical
Full Spectrum



1-3GHz, Horizontal and Vertical
Full Spectrum

