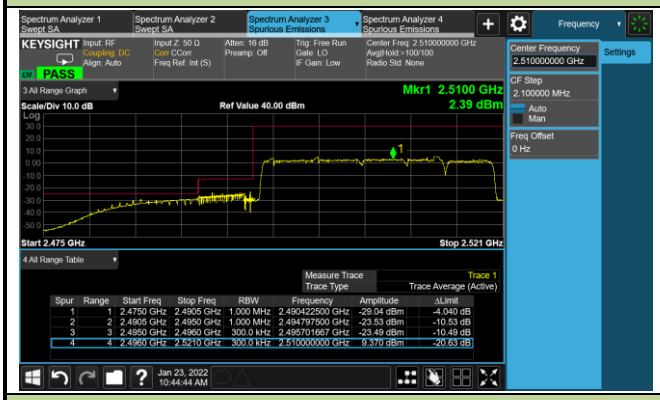
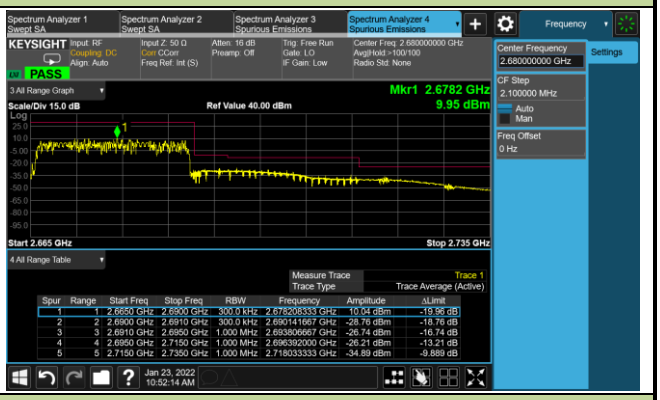
20+5MHz Channel Bandwidth Full RB

Lower Band Edge

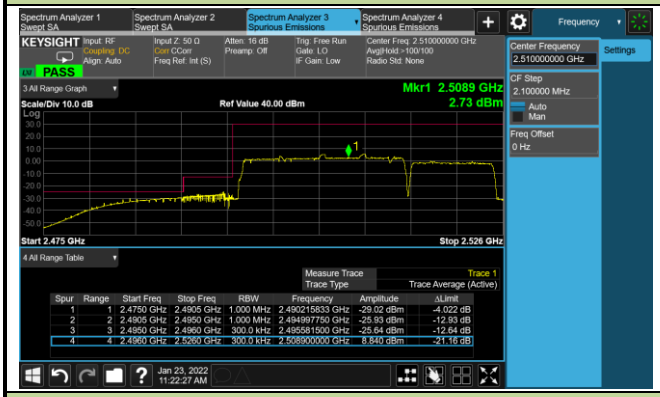


Upper Band Edge

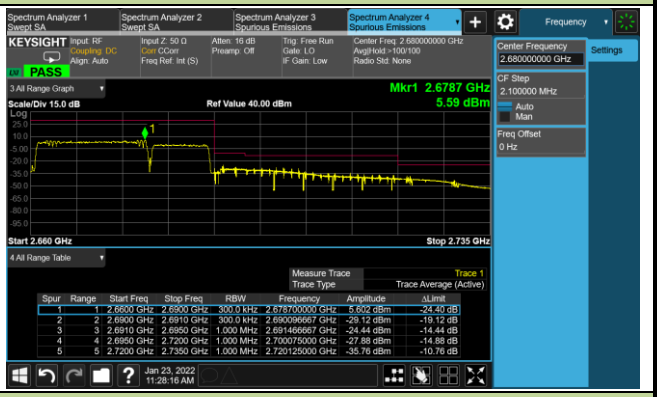


20+10MHz Channel Bandwidth Full RB

Lower Band Edge

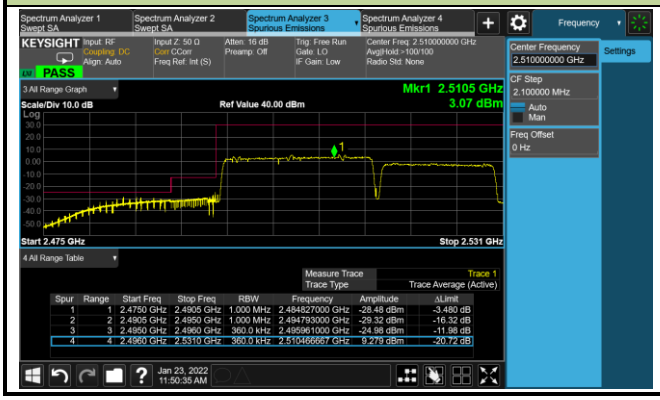


Upper Band Edge

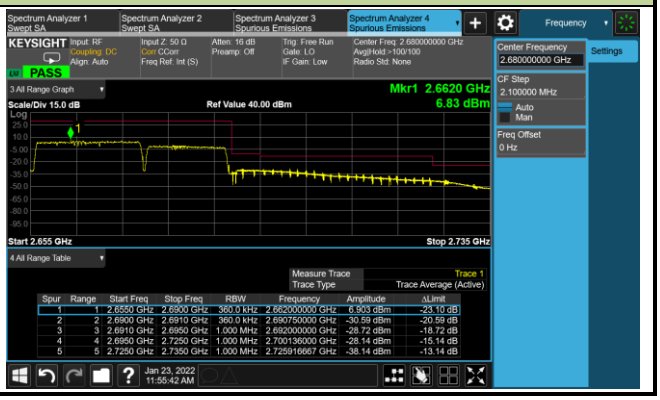


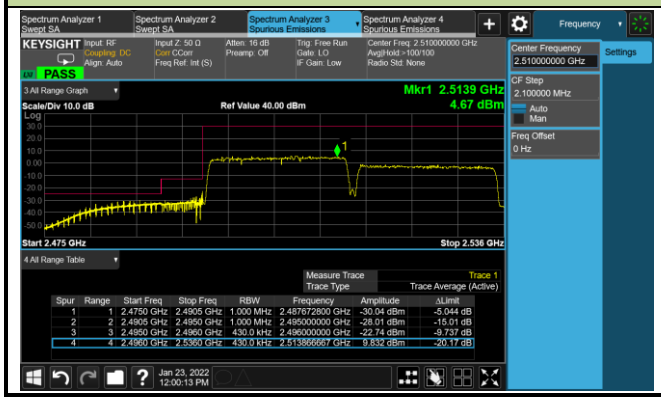
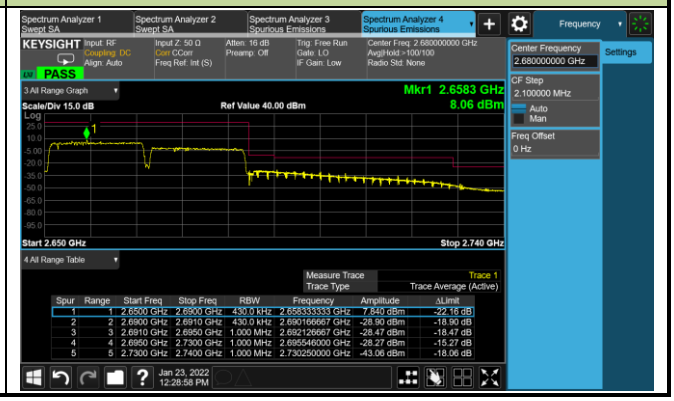
20+15MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge



20+20MHz Channel Bandwidth Full RB	
Lower Band Edge	Upper Band Edge
	

4.5. Conducted Spurious Emissions

4.5.1.Test Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

For Band 41 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 55 + 10 log(P) dB.

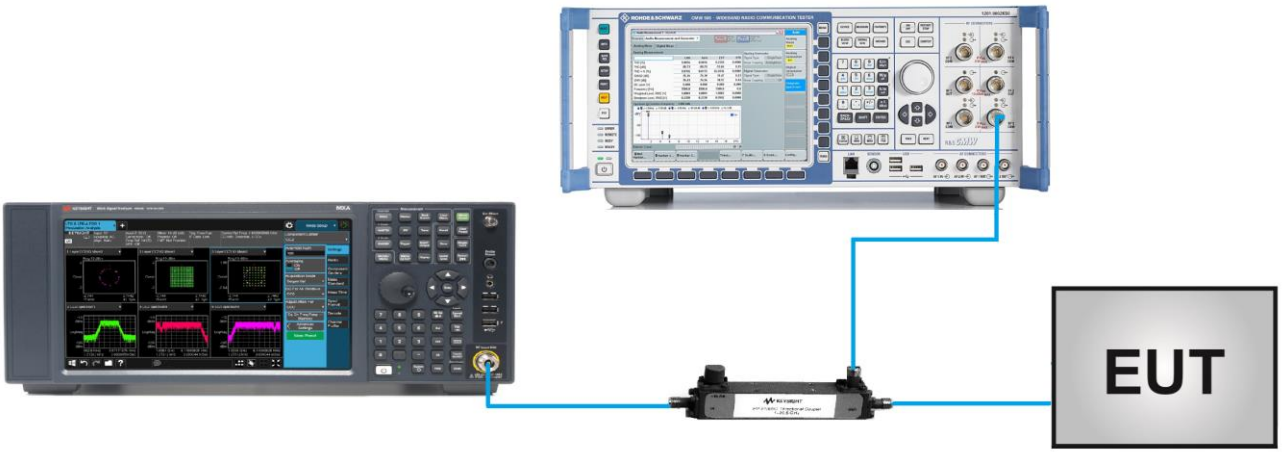
4.5.2.Test Procedure Used

ANSI C63.26-2015 - Section 5.7

4.5.3.Test Setting

1. Set the analyzer frequency to low, mid, high channel.
2. RBW = 1MHz
3. VBW ≥ 3*RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to “free run.”
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

4.5.4.Test Setup



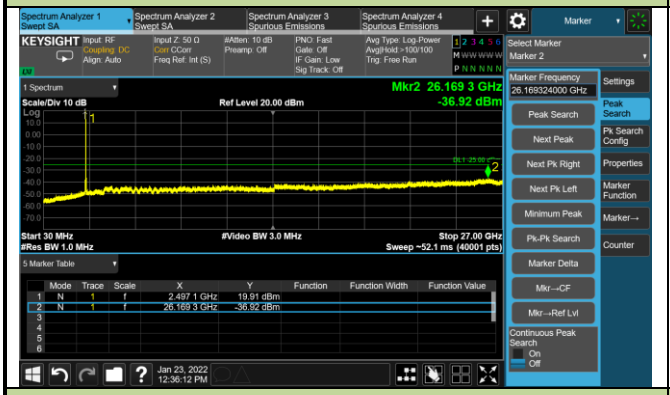
4.5.5.Test Result

Test Engineer	Cloud Guo	Test Site	WZ-SR6
Test Band	Intra-Band CA_41C_1RB_QPSK	Test Date	2022/01/23

Frequency (MHz)		Channel Bandwidth (MHz)	Frequency Range (MHz)	Max Spurious Emissions (dBm)	Limit (dBm)	Result
PCC	SCC					
2506.00	2525.80	20+20	30 ~ 27000	-36.92	≤ -25.00	Pass
2583.10	2602.90	20+20	30 ~ 27000	-36.47	≤ -25.00	Pass
2660.20	2680.00	20+20	30 ~ 27000	-37.59	≤ -25.00	Pass
2506.00	2523.10	20+15	30 ~ 27000	-37.38	≤ -25.00	Pass
2585.60	2602.70	20+15	30 ~ 27000	-36.72	≤ -25.00	Pass
2665.10	2682.20	20+15	30 ~ 27000	-36.64	≤ -25.00	Pass
2506.00	2520.40	20+10	30 ~ 27000	-37.28	≤ -25.00	Pass
2588.10	2602.50	20+10	30 ~ 27000	-37.17	≤ -25.00	Pass
2670.10	2684.50	20+10	30 ~ 27000	-37.12	≤ -25.00	Pass
2506.00	2517.70	20+5	30 ~ 27000	-36.63	≤ -25.00	Pass
2590.50	2602.20	20+5	30 ~ 27000	-37.46	≤ -25.00	Pass
2675.00	2686.70	20+5	30 ~ 27000	-37.71	≤ -25.00	Pass
2503.80	2520.90	15+20	30 ~ 27000	-37.78	≤ -25.00	Pass
2593.30	2600.40	15+20	30 ~ 27000	-36.99	≤ -25.00	Pass
2662.90	2680.00	15+20	30 ~ 27000	-37.25	≤ -25.00	Pass
2503.50	2518.50	15+15	30 ~ 27000	-37.63	≤ -25.00	Pass
2585.50	2600.50	15+15	30 ~ 27000	-37.07	≤ -25.00	Pass
2667.50	2682.50	15+15	30 ~ 27000	-37.16	≤ -25.00	Pass
2503.50	2515.50	15+10	30 ~ 27000	-36.39	≤ -25.00	Pass
2588.10	2600.10	15+10	30 ~ 27000	-37.05	≤ -25.00	Pass
2672.70	2684.70	15+10	30 ~ 27000	-36.19	≤ -25.00	Pass
2501.50	2515.90	10+20	30 ~ 27000	-37.16	≤ -25.00	Pass
2583.60	2598.00	10+20	30 ~ 27000	-36.86	≤ -25.00	Pass
2665.60	2680.00	10+20	30 ~ 27000	-37.04	≤ -25.00	Pass
2501.30	2513.30	10+15	30 ~ 27000	-35.94	≤ -25.00	Pass
2585.90	2597.90	10+15	30 ~ 27000	-37.29	≤ -25.00	Pass
2670.50	2682.50	10+15	30 ~ 27000	-37.28	≤ -25.00	Pass
2499.30	2511.00	5+20	30 ~ 27000	-36.54	≤ -25.00	Pass
2583.80	2595.50	5+20	30 ~ 27000	-37.06	≤ -25.00	Pass
2668.30	2680.00	5+20	30 ~ 27000	-37.57	≤ -25.00	Pass

20+20MHz Channel Bandwidth

Lowest Channel



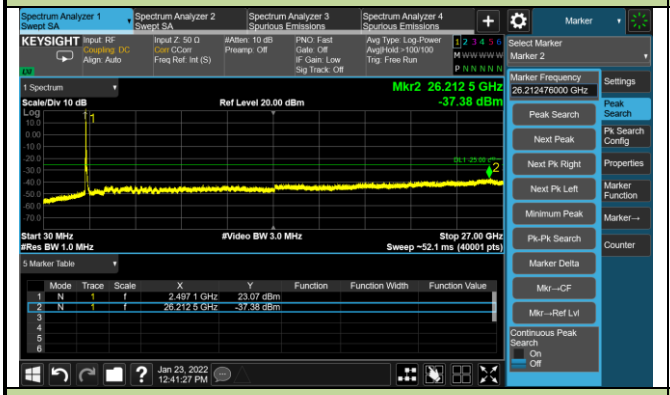
Middle Channel/1RB@0 and 1RB@99

Middle Channel/1RB@99 and 1RB@0

Highest Channel

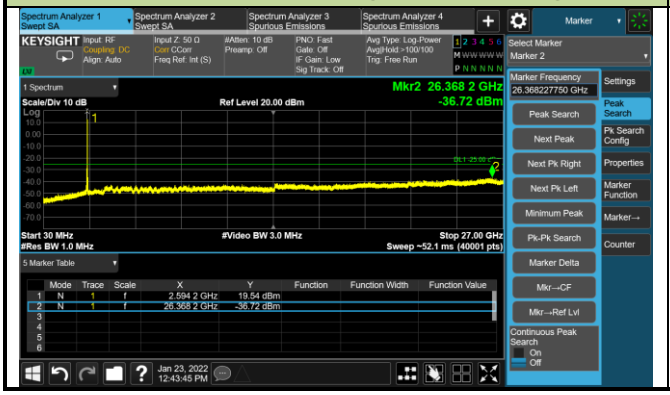
20+15MHz Channel Bandwidth

Lowest Channel

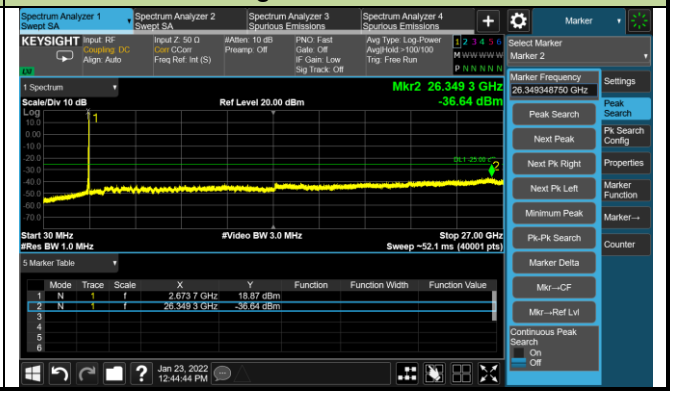


Middle Channel/1RB@0 and 1RB@99

Middle Channel/ 1RB@99 and 1RB@0



Highest Channel



20+10MHz Channel Bandwidth

Lowest Channel

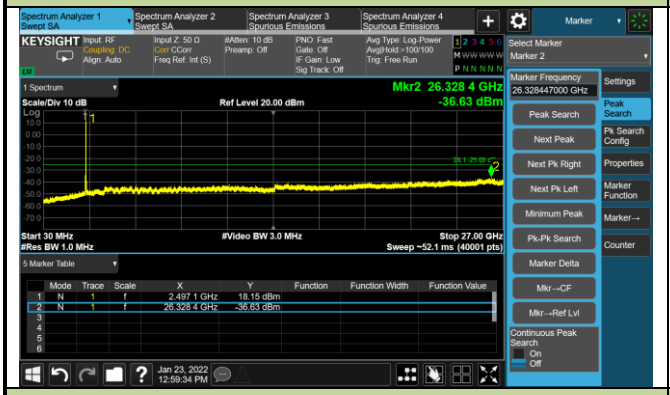
Middle Channel/1RB@0 and 1RB@49

Middle Channel/1RB@99 and 1RB@0

Highest Channel

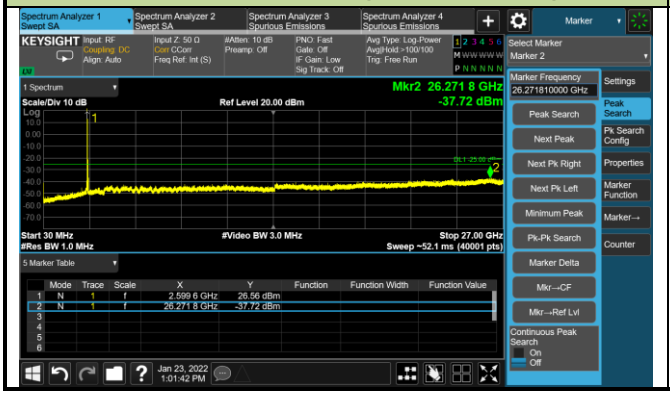
20+5MHz Channel Bandwidth

Lowest Channel

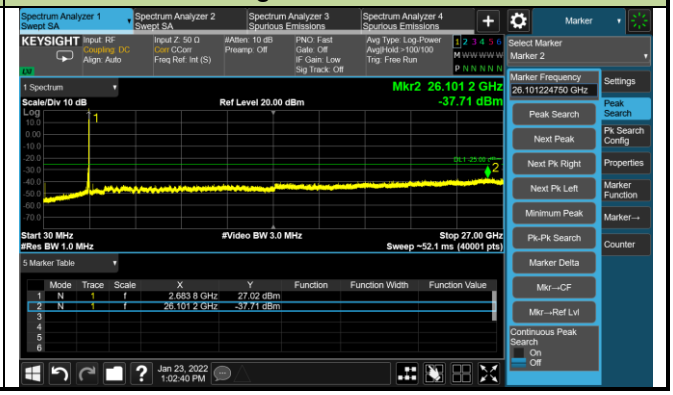


Middle Channel/1RB@0 and 1RB@24

Middle Channel/1RB@99 and 1RB@0



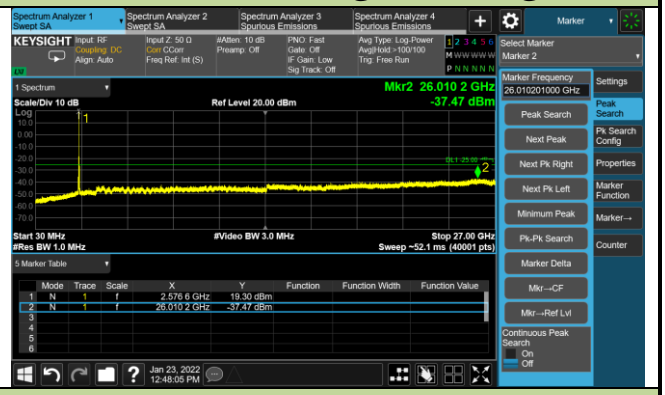
Highest Channel



15+20MHz Channel Bandwidth

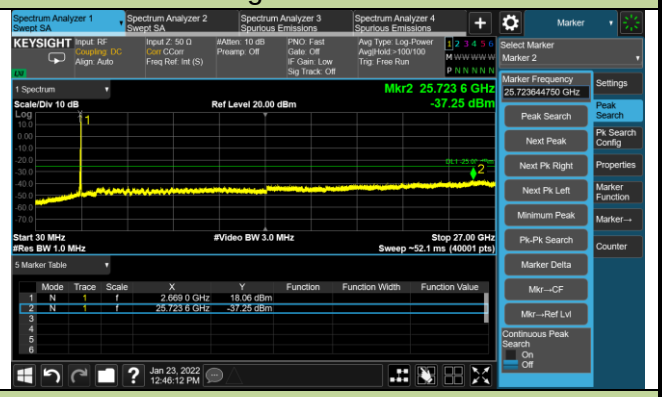
Lowest Channel

Middle Channel/1RB@0 and 1RB@99



Middle Channel/1RB@74 and 1RB@0

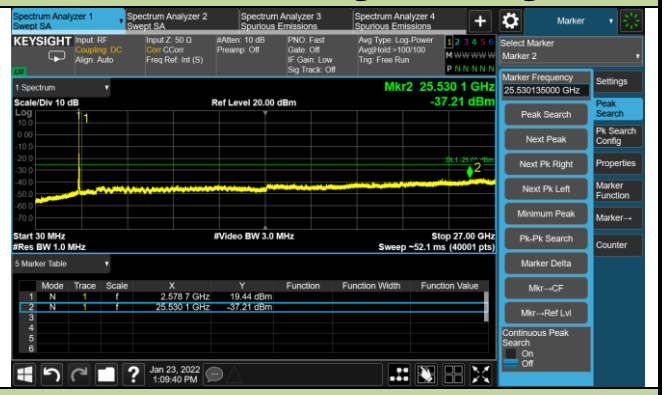
Highest Channel



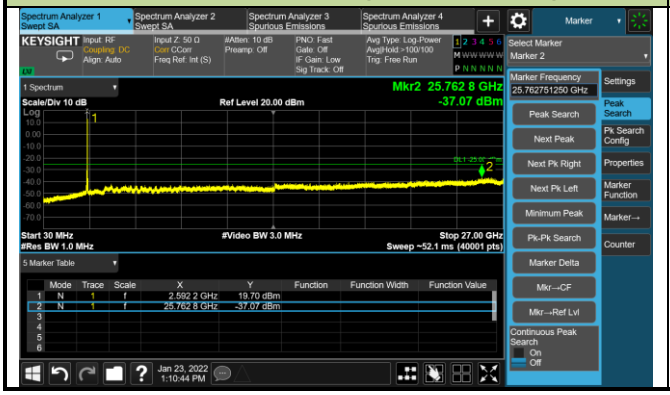
15+15MHz Channel Bandwidth

Lowest Channel

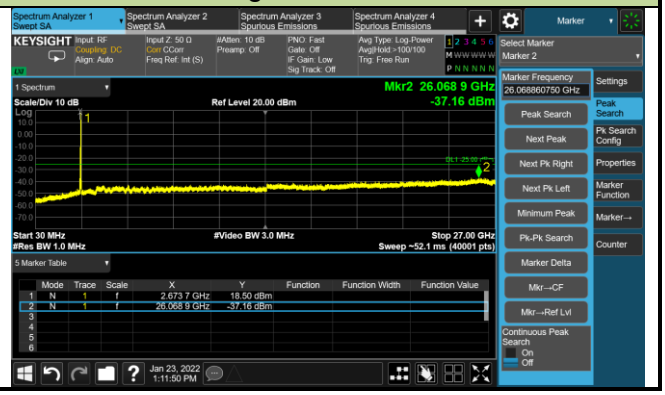
Middle Channel/1RB@0 and 1RB@74



Middle Channel/1RB@74 and 1RB@0

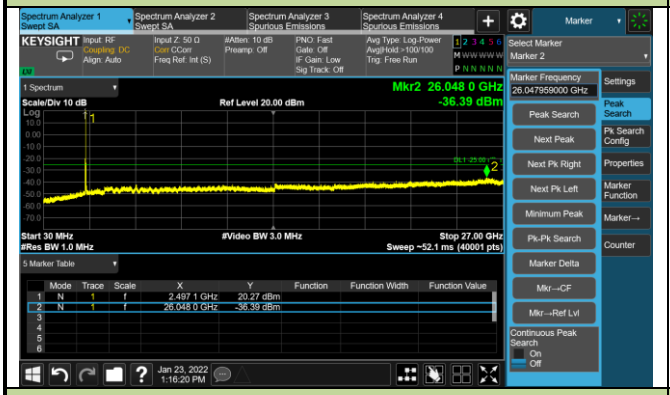


Highest Channel



15+10MHz Channel Bandwidth

Lowest Channel



Middle Channel/1RB@0 and 1RB@49

Middle Channel/1RB@74 and 1RB@0

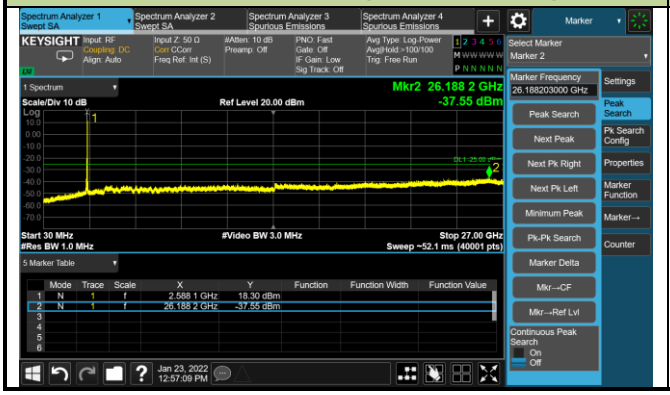
Highest Channel

10+20MHz Channel Bandwidth

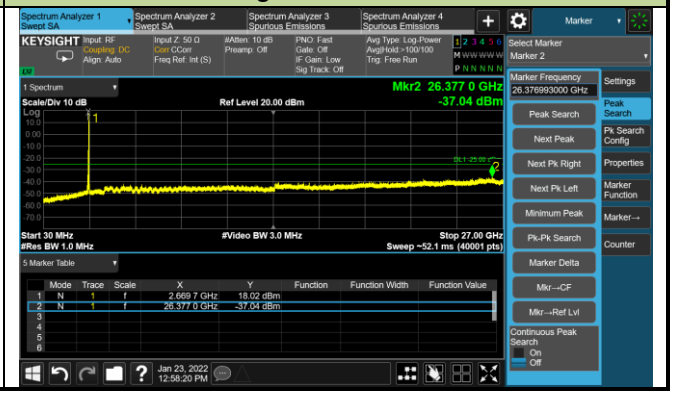
Lowest Channel

Middle Channel/1RB@49 and 1RB@99

Middle Channel/1RB@49 and 1RB@0



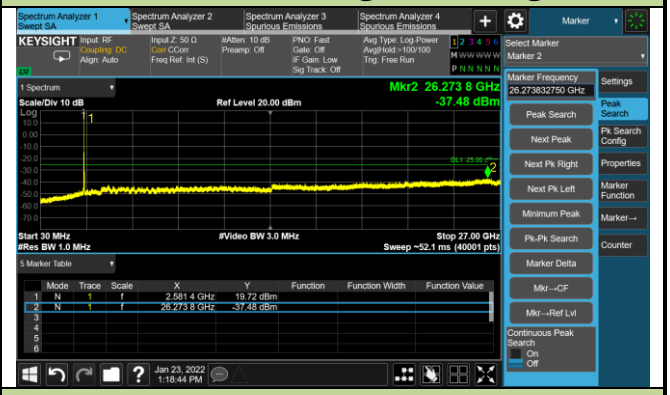
Highest Channel



10+15MHz Channel Bandwidth

Lowest Channel

Middle Channel/1RB@0 and 1RB@74



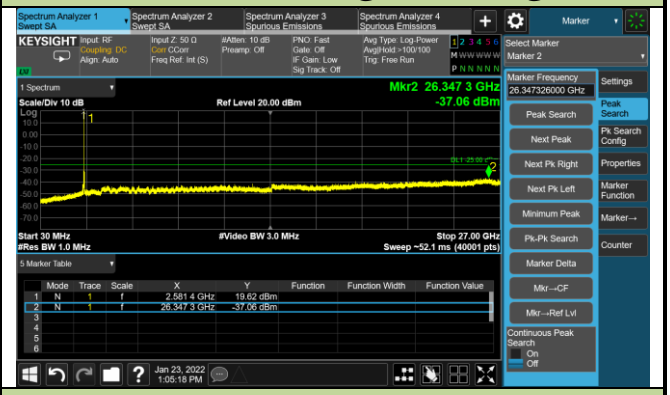
Middle Channel/1RB@49 and 1RB@0

Highest Channel

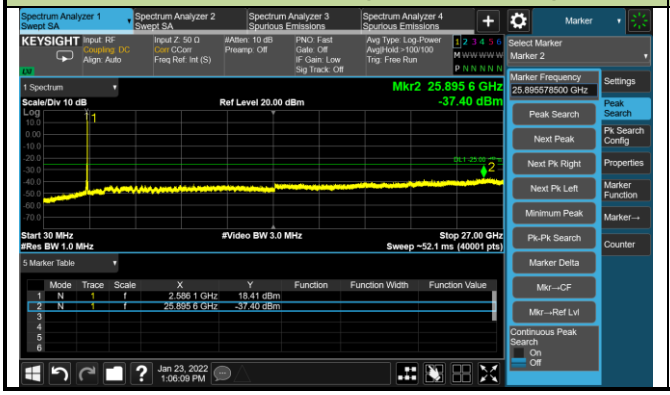
5+20MHz Channel Bandwidth

Lowest Channel

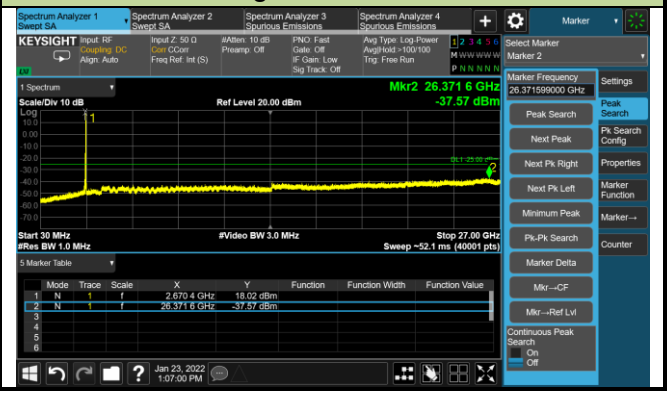
Middle Channel/1RB@0 and 1RB@99



Middle Channel/1RB@24 and 1RB@0



Highest Channel



5. CONCLUSION

The data collected relate only the item(s) tested and show that unit is compliance with FCC Rules.

The End

Appendix A - Test Setup Photograph

Refer to “2110RSU037-UT” file.

Appendix B - EUT Photograph

Refer to “2110RSU037-UE” file.