

TEST REPORT

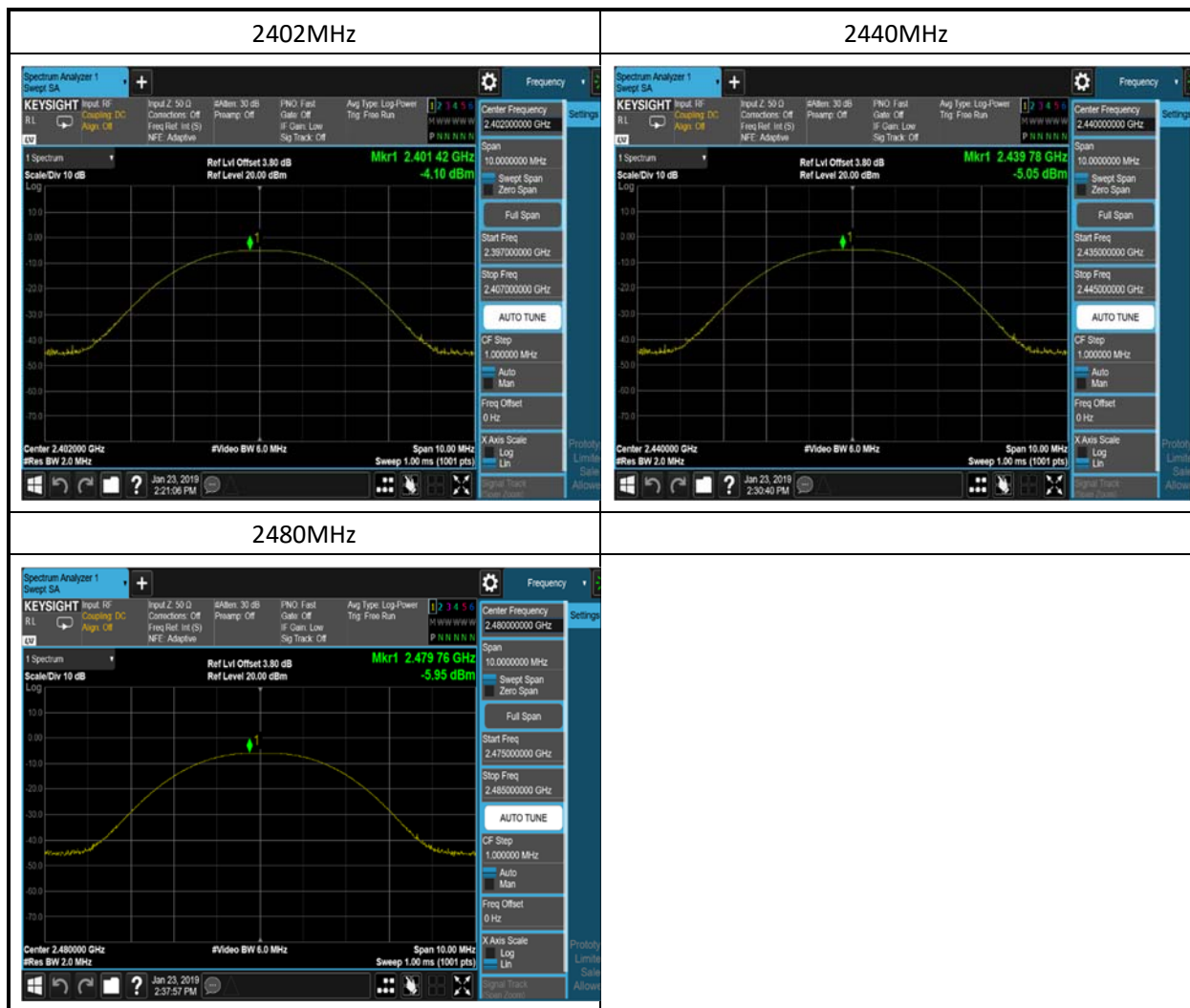
Appendix A: Test results

1. RF Output Power

1.1 Test Result and Data

BLE Maximum Output Power		
Test Frequency (MHz)	Power (dBm)	Result
2402	-4.10	Pass
2440	-5.05	Pass
2480	-5.95	Pass

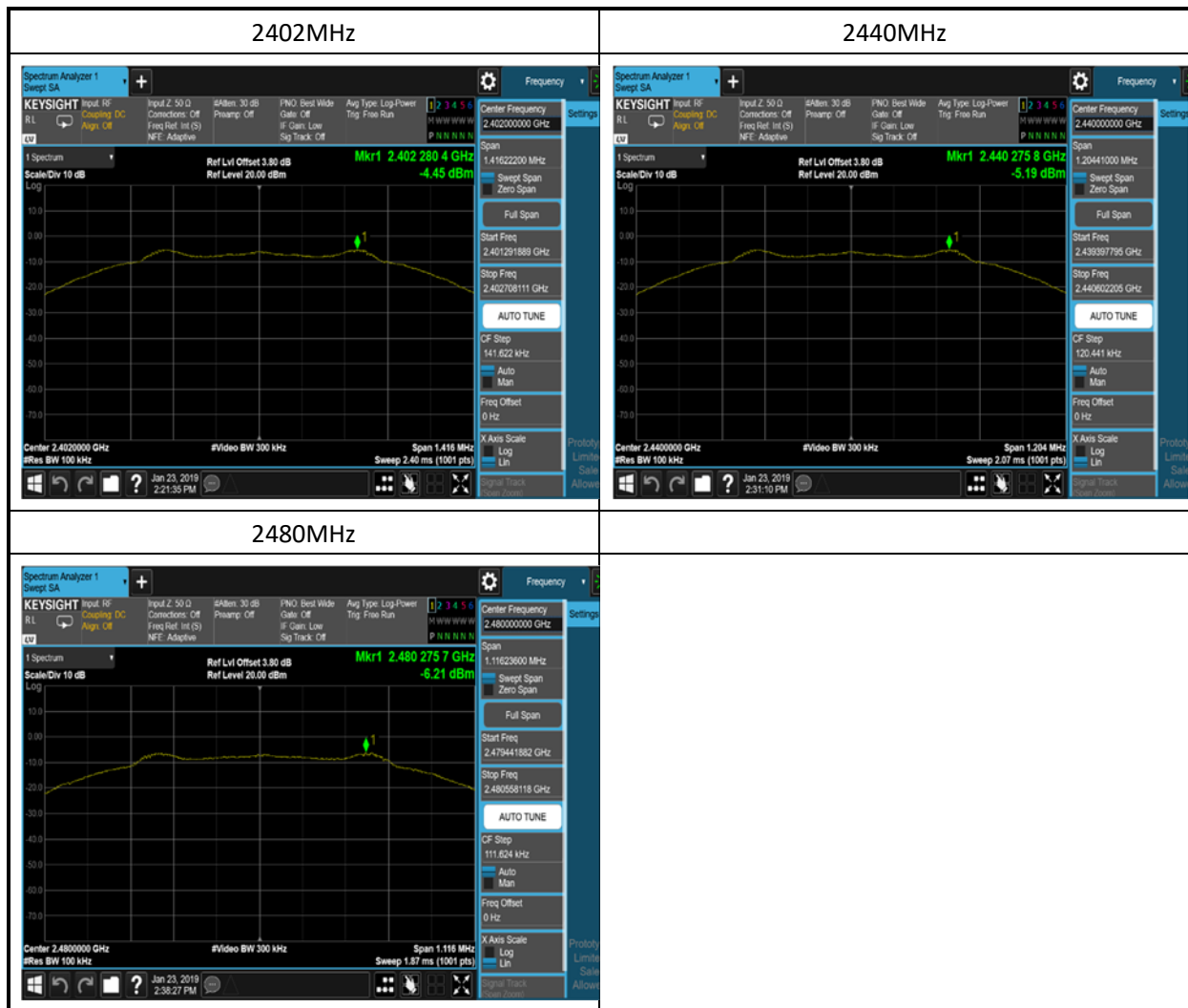
The maximum EIRP = $-4.10\text{dBm} + 1.6\text{dBi} = -2.50\text{dBm} = 0.001\text{W}$ which is lower than the limit of 4W listed in RSS-247.



2. Power Spectral Density

2.1 Test Result and Data

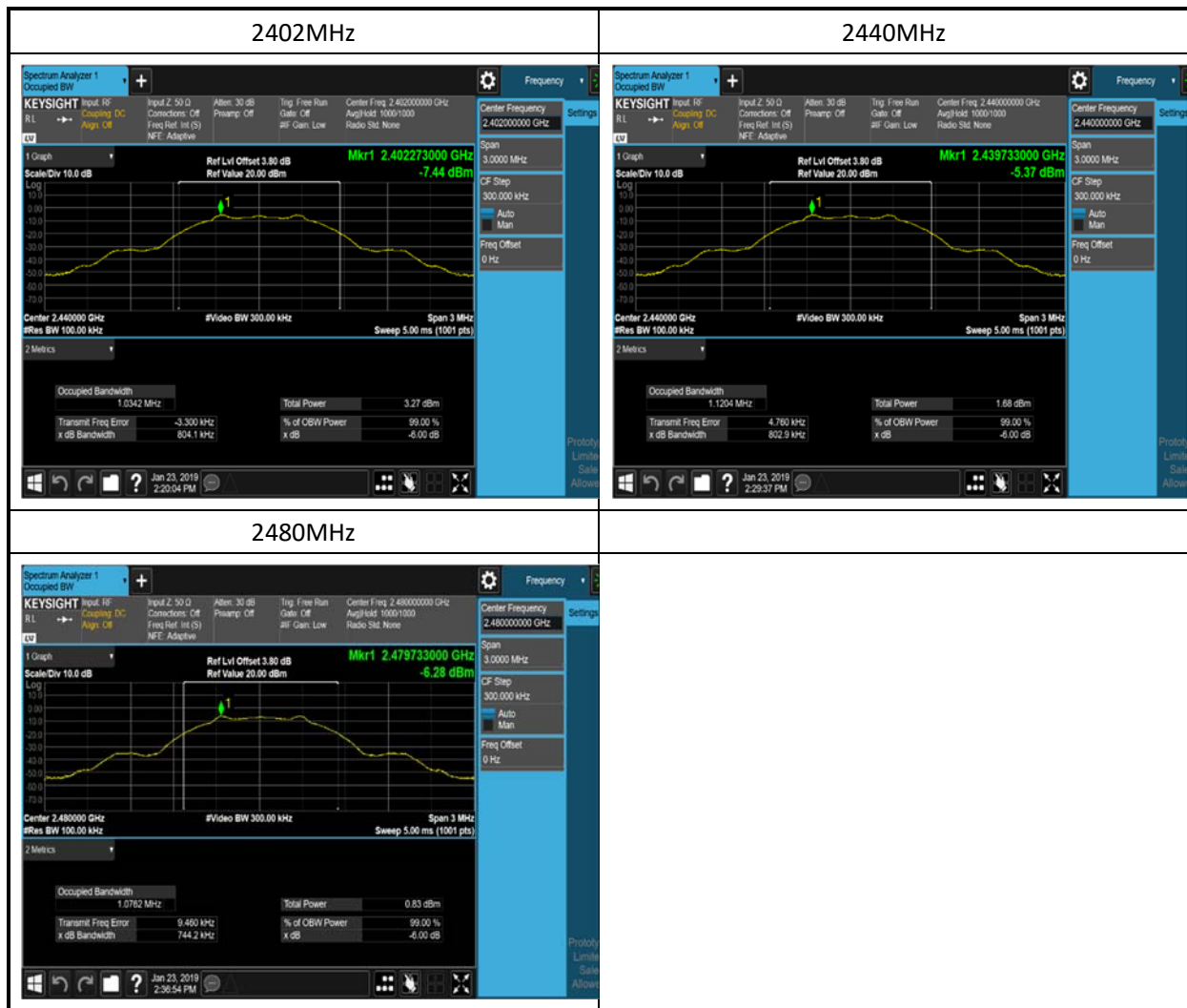
BLE Peak Power Spectral Density		
Test Frequency (MHz)	PSD (dBm/100kHz)	Result
2402	-4.45	Pass
2440	-5.19	Pass
2480	-6.21	Pass



3. 6dB BandWidth

3.1 Test Result and Data

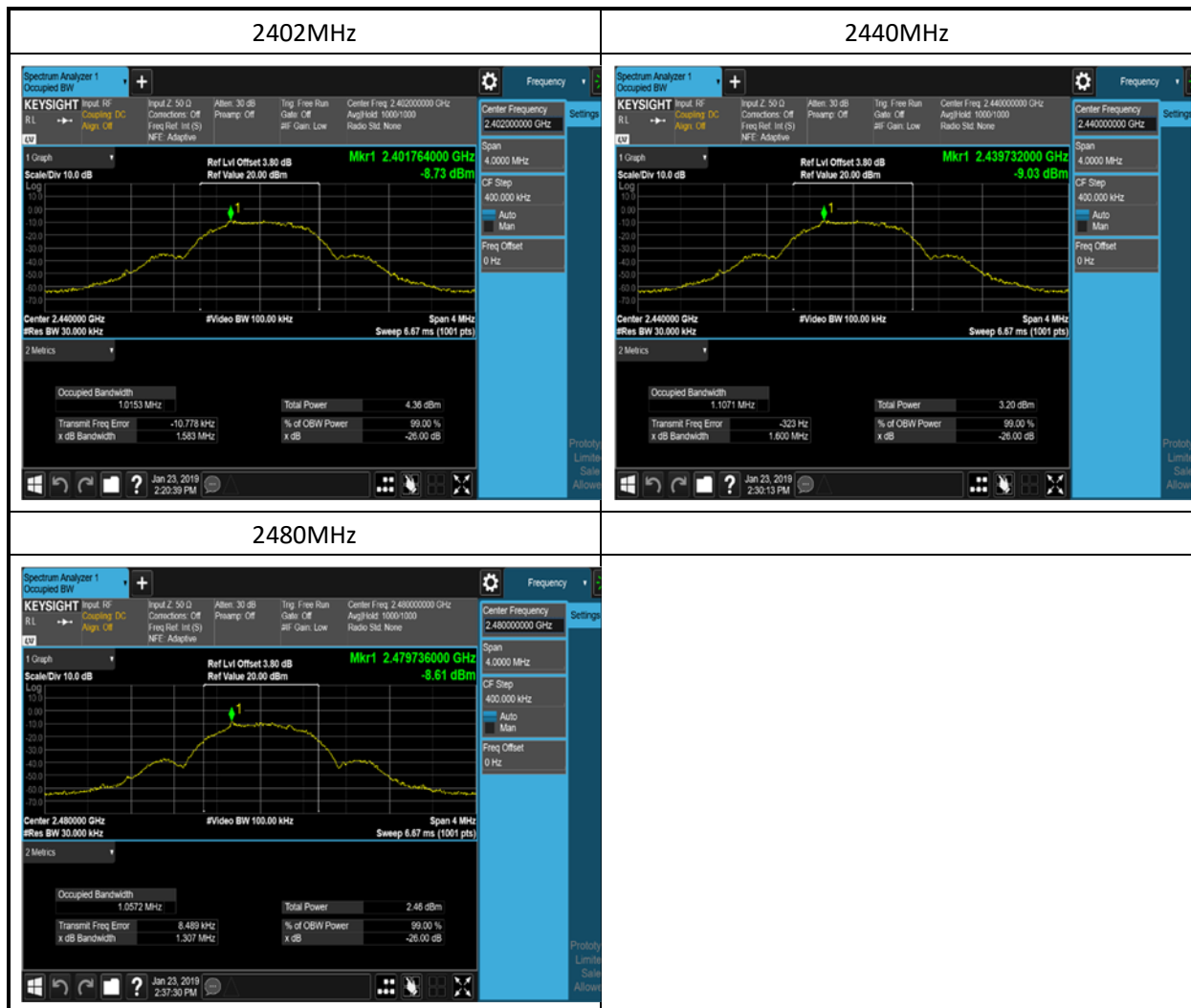
BLE Occupied 6dB Bandwidth			
Test Frequency (MHz)	Occupied Bandwidth (kHz)	Min Limit (kHz)	Result
2402	804.1	500	Pass
2440	802.9	500	Pass
2480	744.2	500	Pass



4. 99% BandWidth

4.1 Test Result and Data

BLE 99% Occupied Bandwidth		
Test Frequency (MHz)	99% Occupied Bandwidth (MHz)	Result
2402	1.0153	Pass
2440	1.1071	Pass
2480	1.0572	Pass



5. Transmitter Spurious Emission

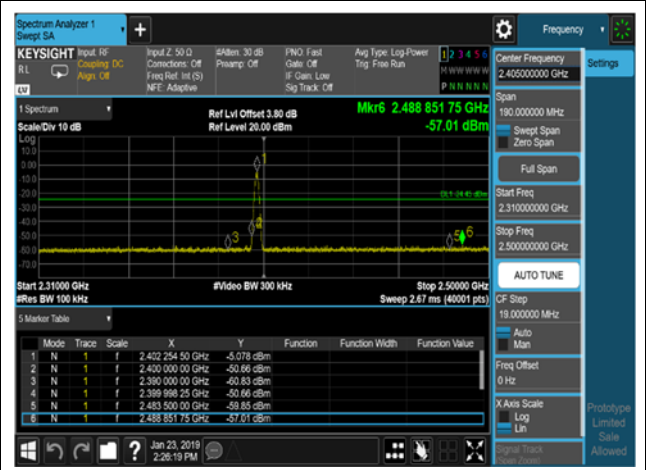
5.1 Test Result and Data

BLE Transmitter Spurious Emission			
Test Frequency (MHz)	Test Range	Power (dBm)	Result
2402	1MHz~2310MHz	-55.52	Pass
2402	2500MHz~5000MHz	-51.84	Pass
2402	5000MHz~25000MHz	-38.59	Pass
2402	Band Edge	-50.66	Pass
2402	Reference Level	-4.45	Pass
2440	1MHz~2310MHz	-55.61	Pass
2440	2500MHz~5000MHz	-52.58	Pass
2440	5000MHz~25000MHz	-38.58	Pass
2440	Band Edge	-57.37	Pass
2440	Reference Level	-5.28	Pass
2480	1MHz~2310MHz	-55.62	Pass
2480	2500MHz~5000MHz	-52.46	Pass
2480	5000MHz~25000MHz	-38.97	Pass
2480	Band Edge	-57.15	Pass
2480	Reference Level	-6.14	Pass

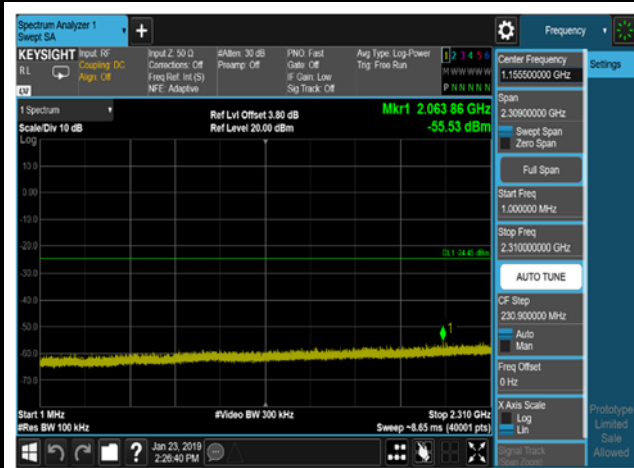
2402MHz,Plot 1,Reference Level



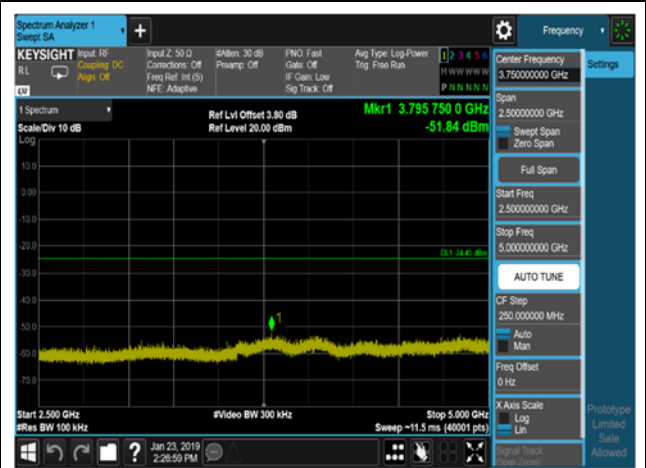
2402MHz,Plot 2,Band Edge



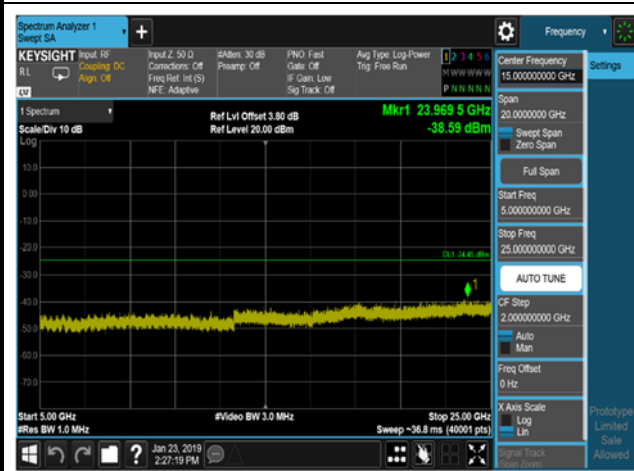
2402MHz,Plot 3,1MHz~2310MHz



2402MHz,Plot 4,2500MHz~5000MHz



2402MHz,Plot 5,5000MHz~25000MHz



2440MHz,Plot 1,Reference Level



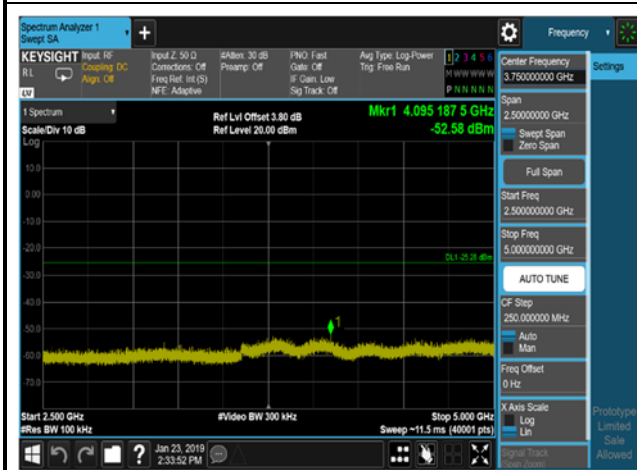
2440MHz,Plot 2,Band Edge



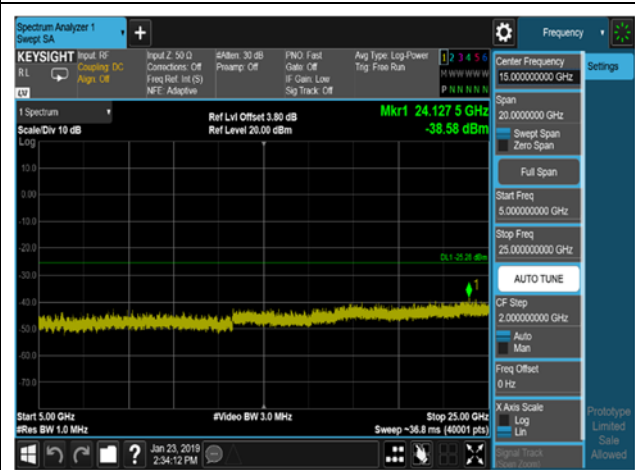
2440MHz,Plot 3,1MHz~2310MHz



2440MHz,Plot 4,2500MHz~5000MHz



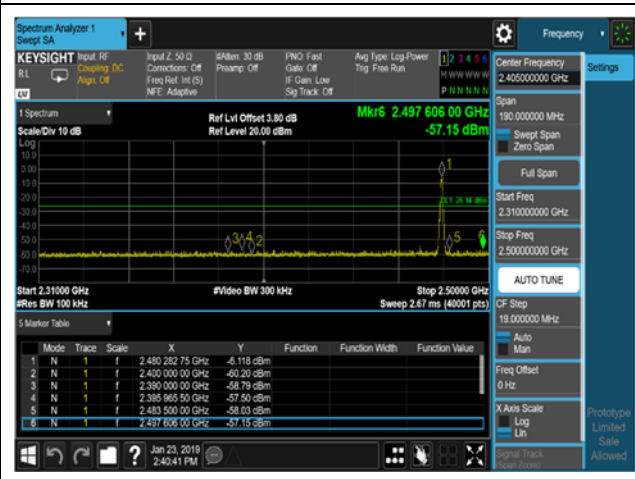
2440MHz,Plot 5,5000MHz~25000MHz



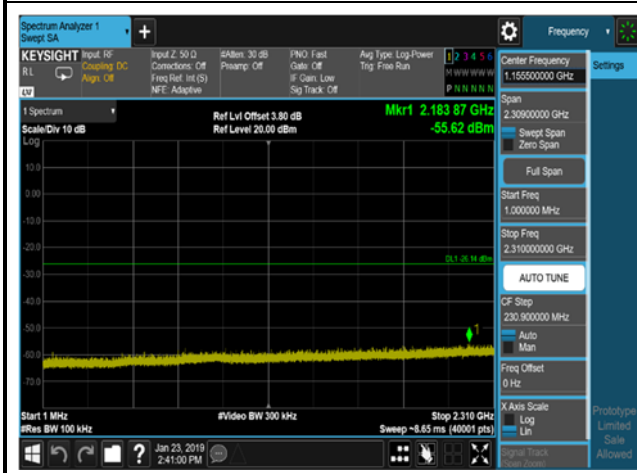
2480MHz,Plot 1,Reference Level



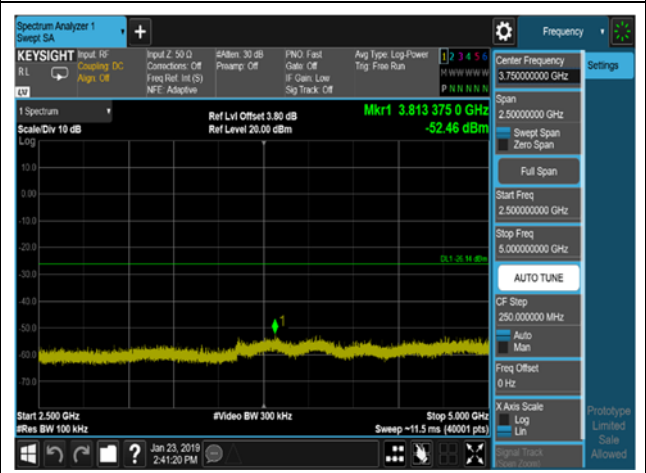
2480MHz,Plot 2,Band Edge



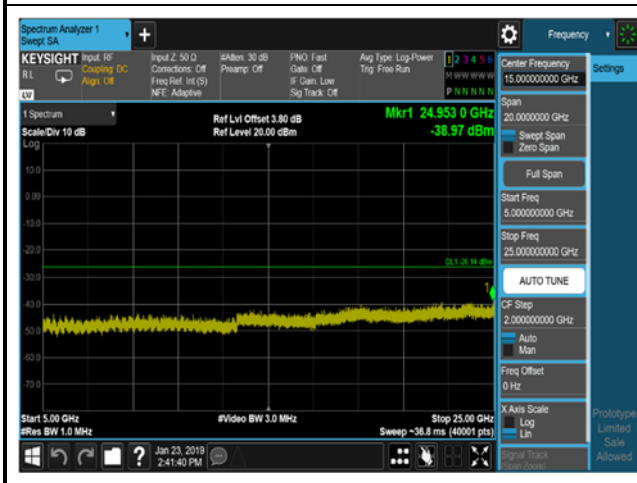
2480MHz,Plot 3,1MHz~2310MHz



2480MHz,Plot 4,2500MHz~5000MHz



2480MHz,Plot 5,5000MHz~25000MHz



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