



## 7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

### LIMITS

FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
FCC §15.247 (d) RSS-247 Clause 5.5 RSS-GEN Clause 6.13	Conducted Bandedge and Spurious Emissions	30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

### TEST PROCEDURE

Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

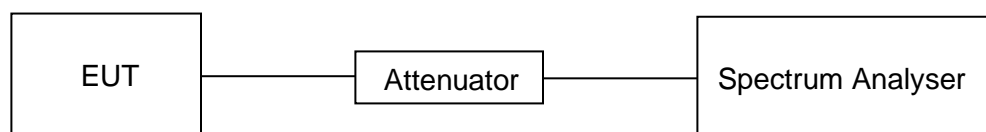
Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.

### TEST SETUP





**TEST ENVIRONMENT**

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3V

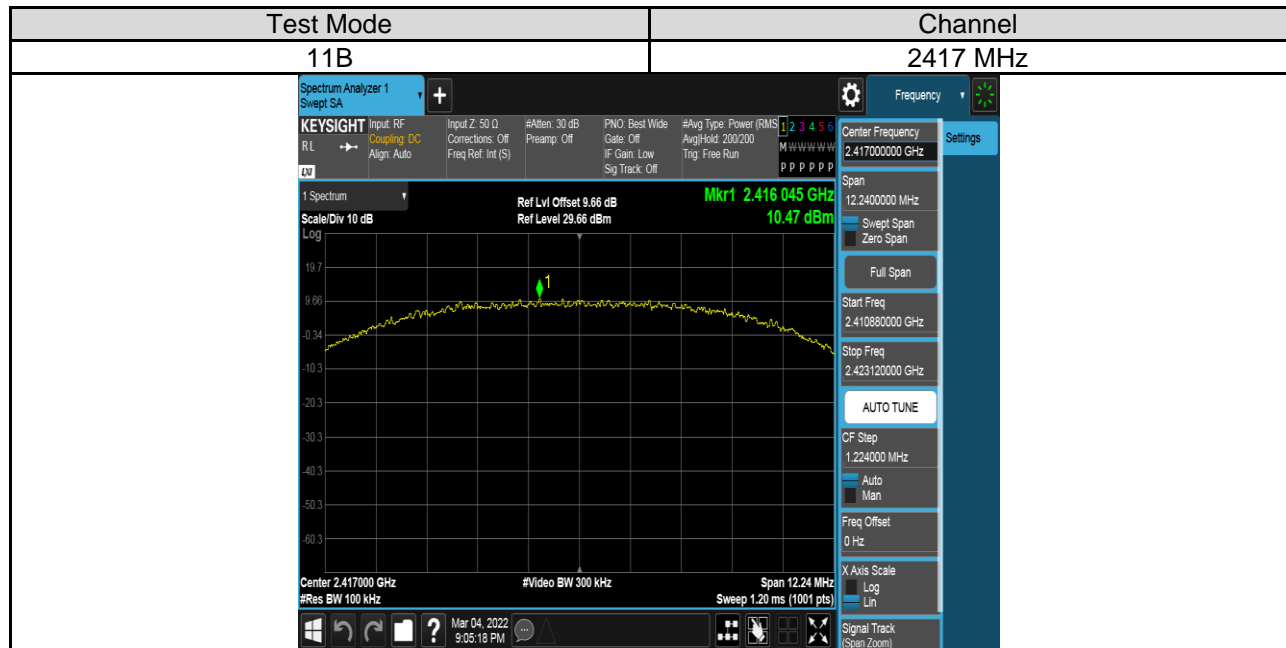
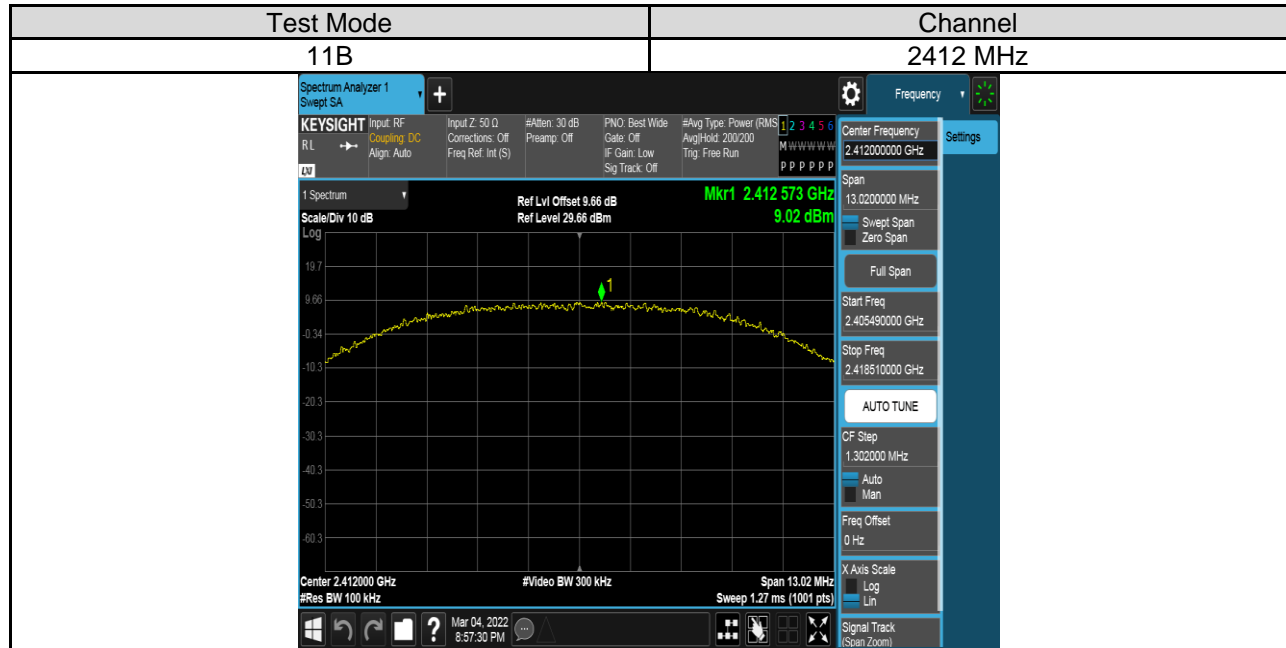
**PART 1: REFERENCE LEVEL MEASUREMENT**

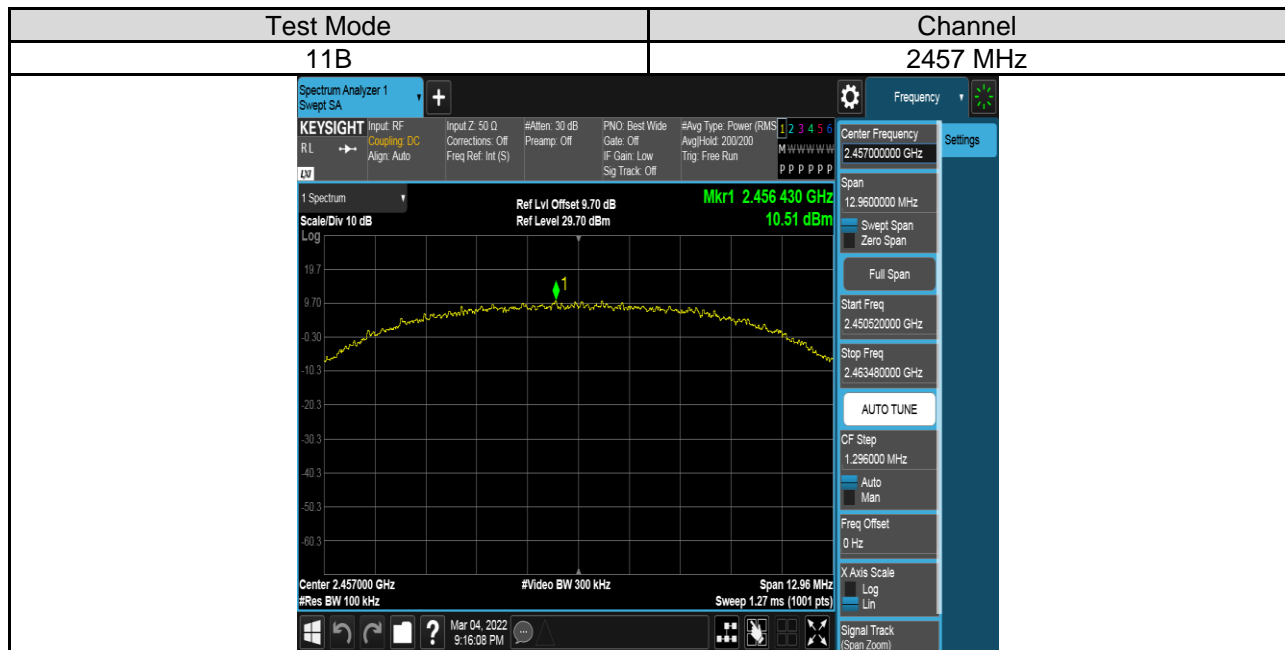
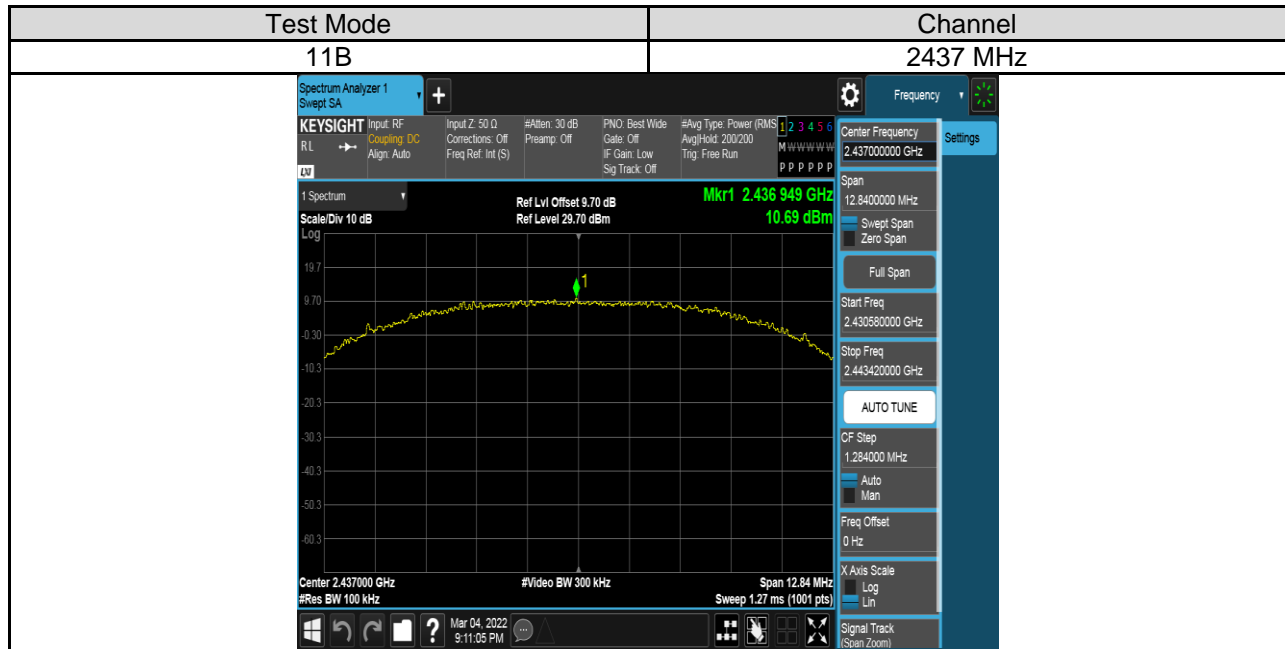
**TEST RESULTS TABLE**

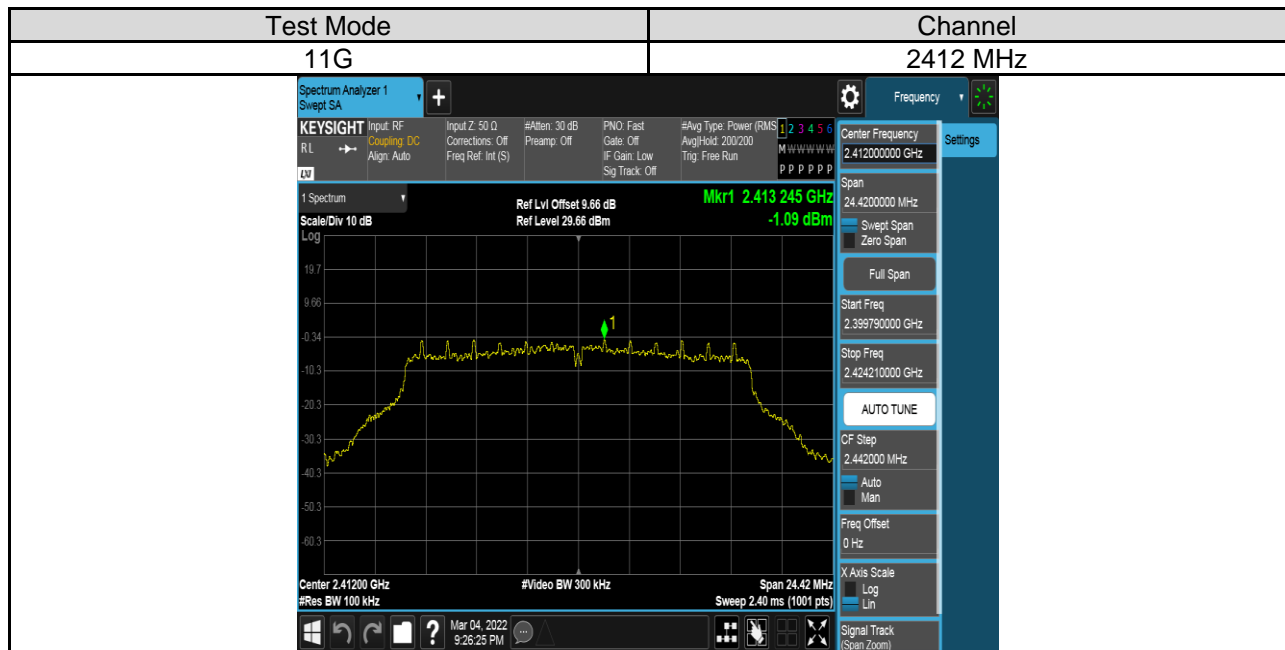
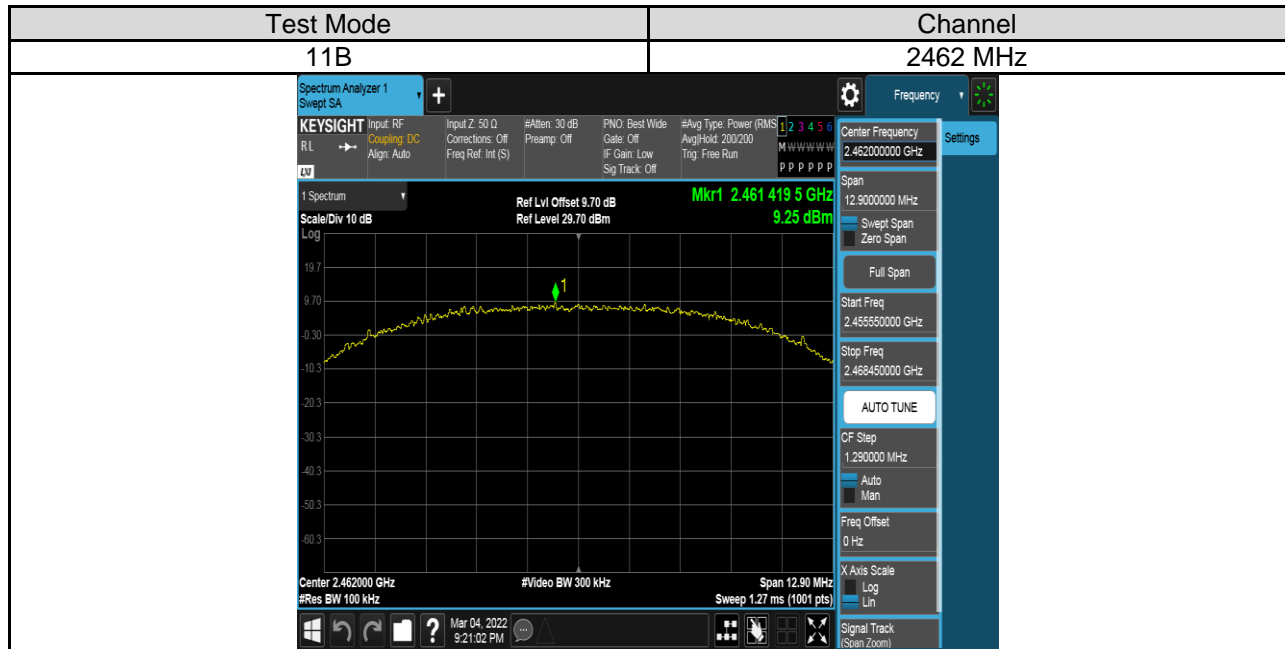
Test Mode	Test Channel	Result[dBm]
11B	2412	9.02
	2417	10.47
	2437	10.69
	2457	10.51
	2462	9.25
11G	2412	-1.09
	2427	5.87
	2437	6.08
	2447	5.88
	2462	-0.87
11N HT20	2412	-2.16
	2427	5.95
	2437	5.98
	2447	5.82
	2462	-2.21

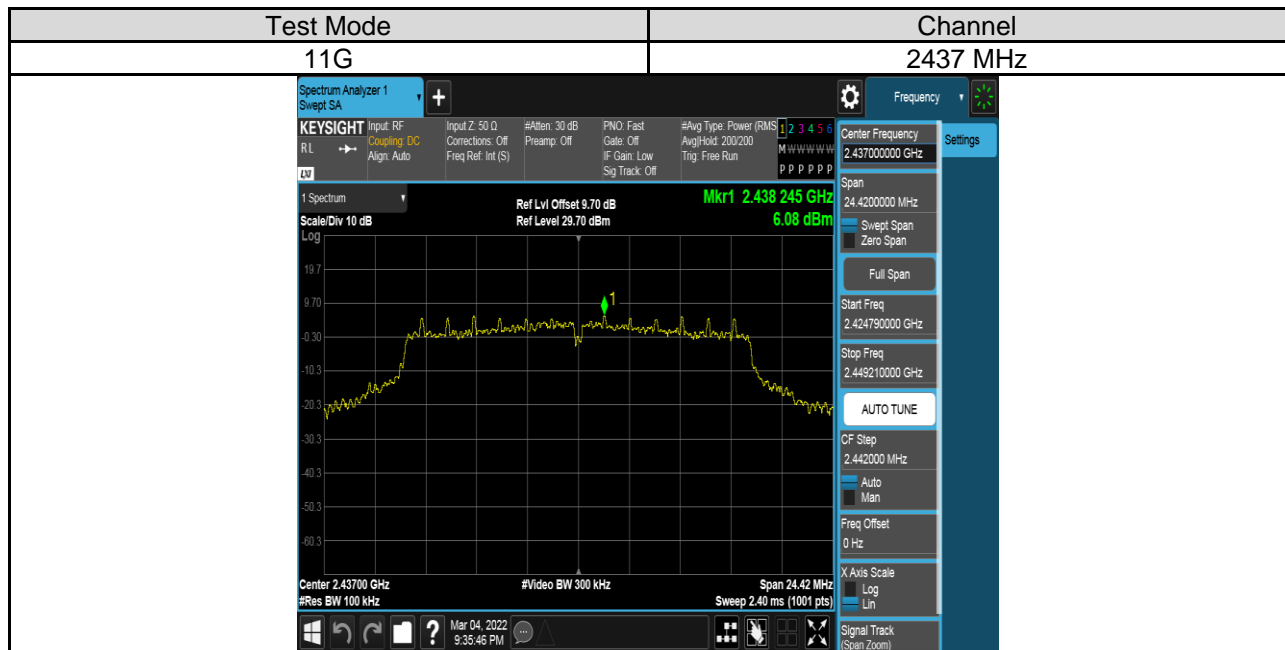
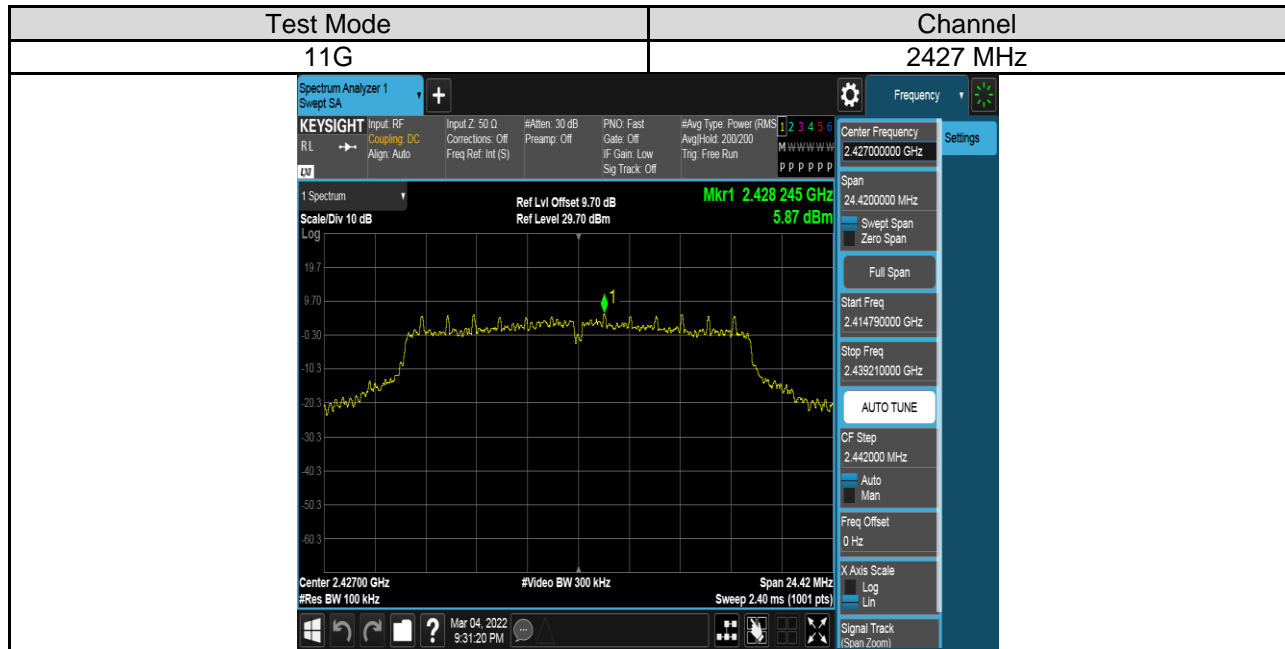


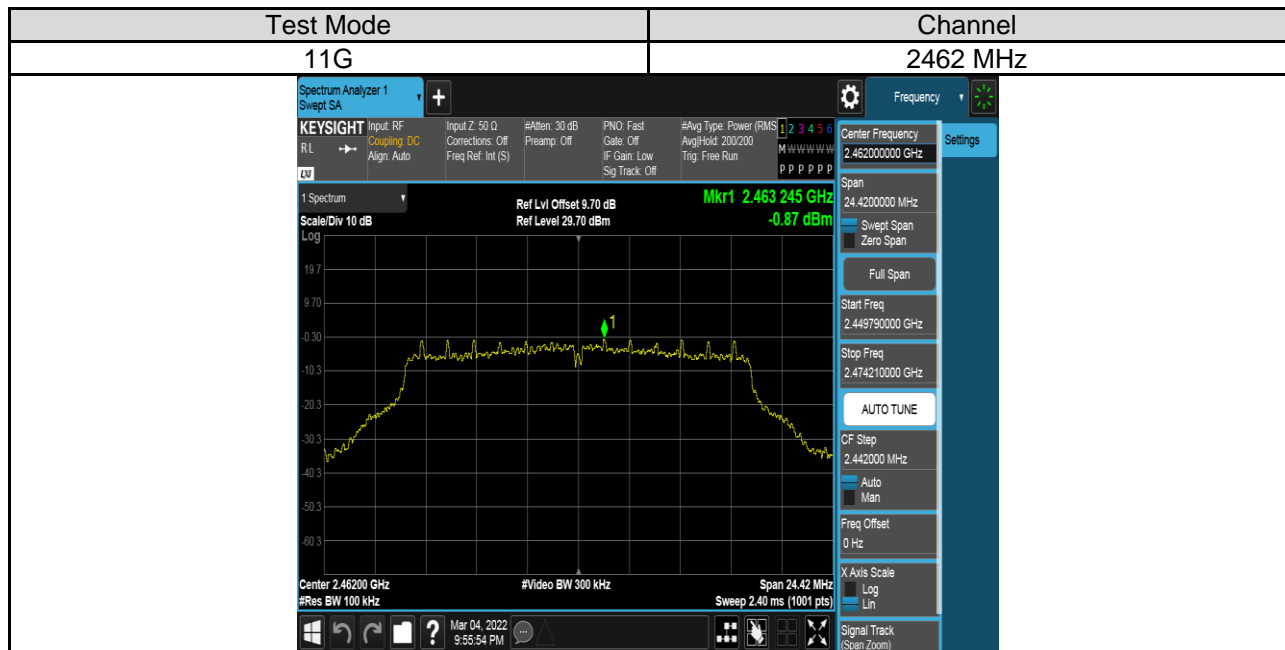
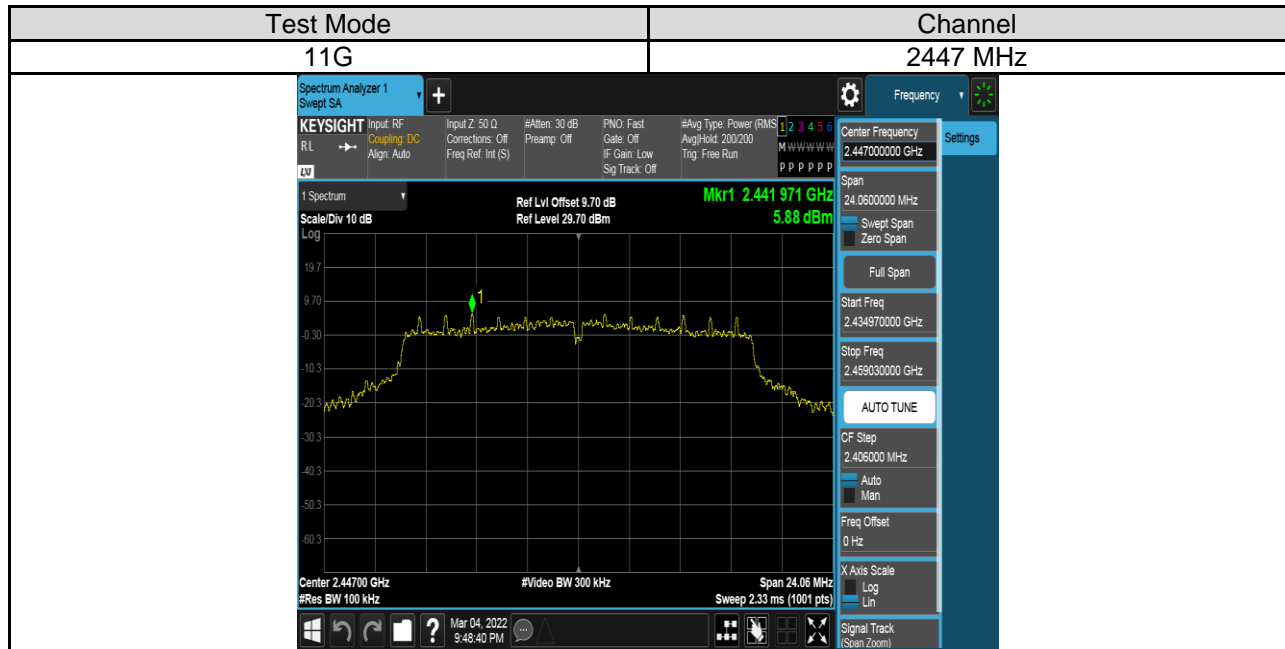
## TEST GRAPHS



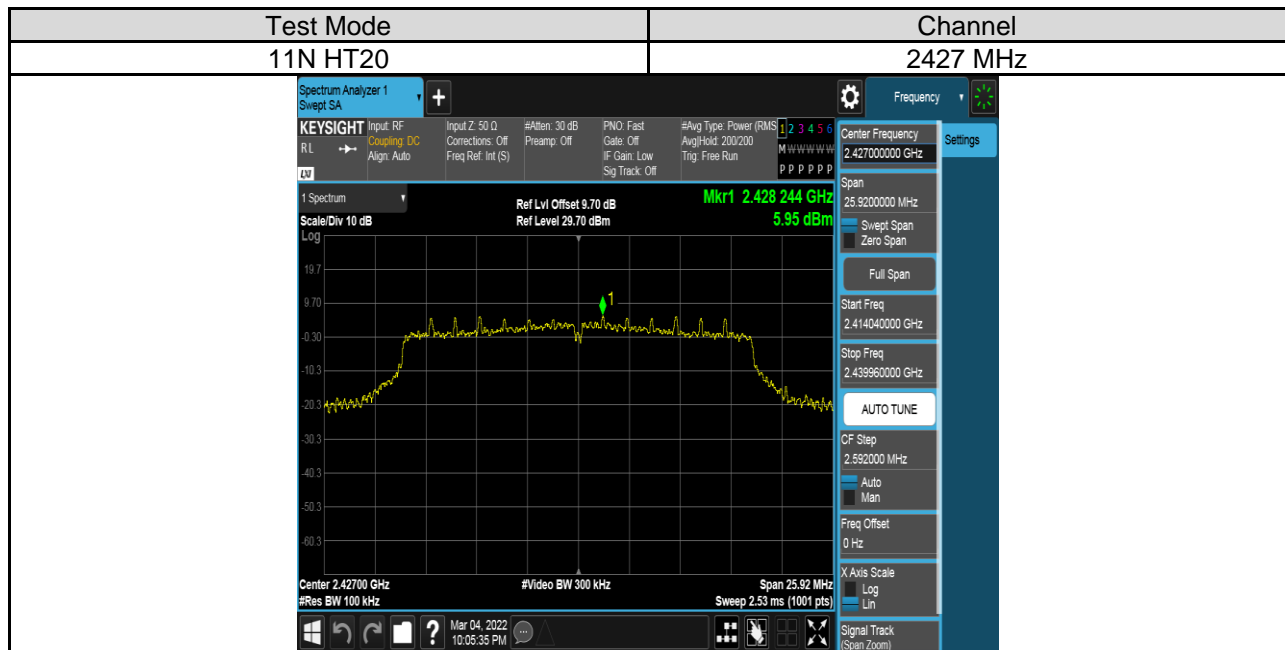
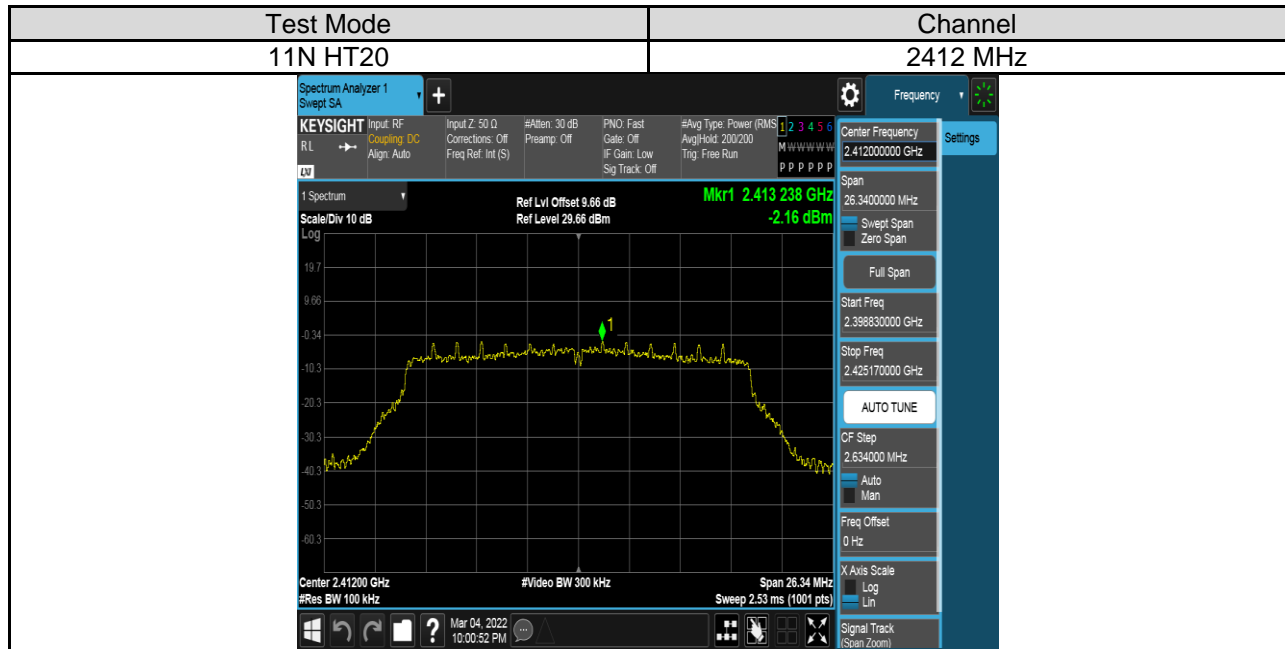


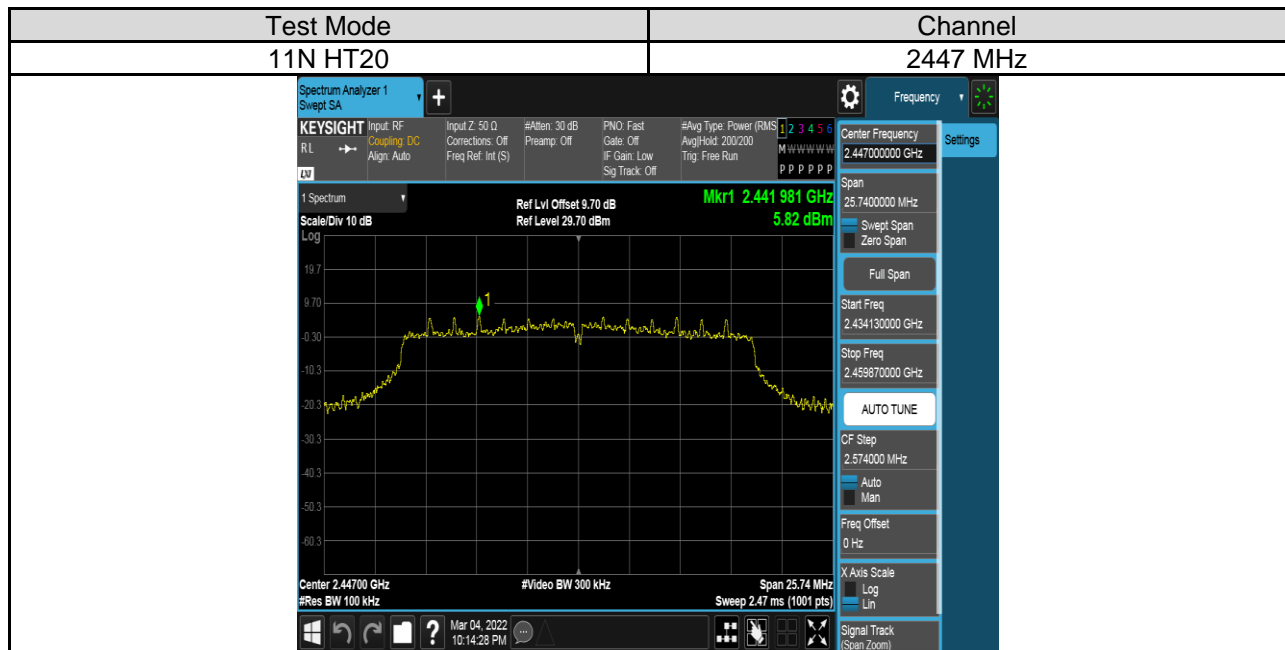
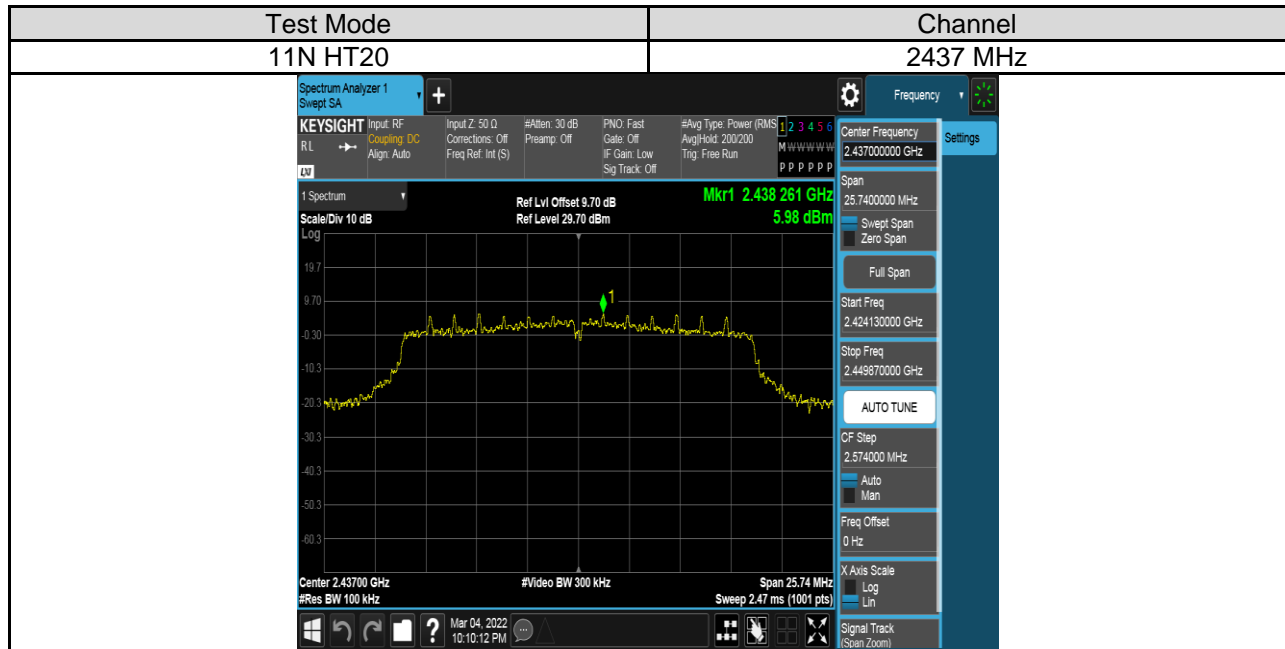


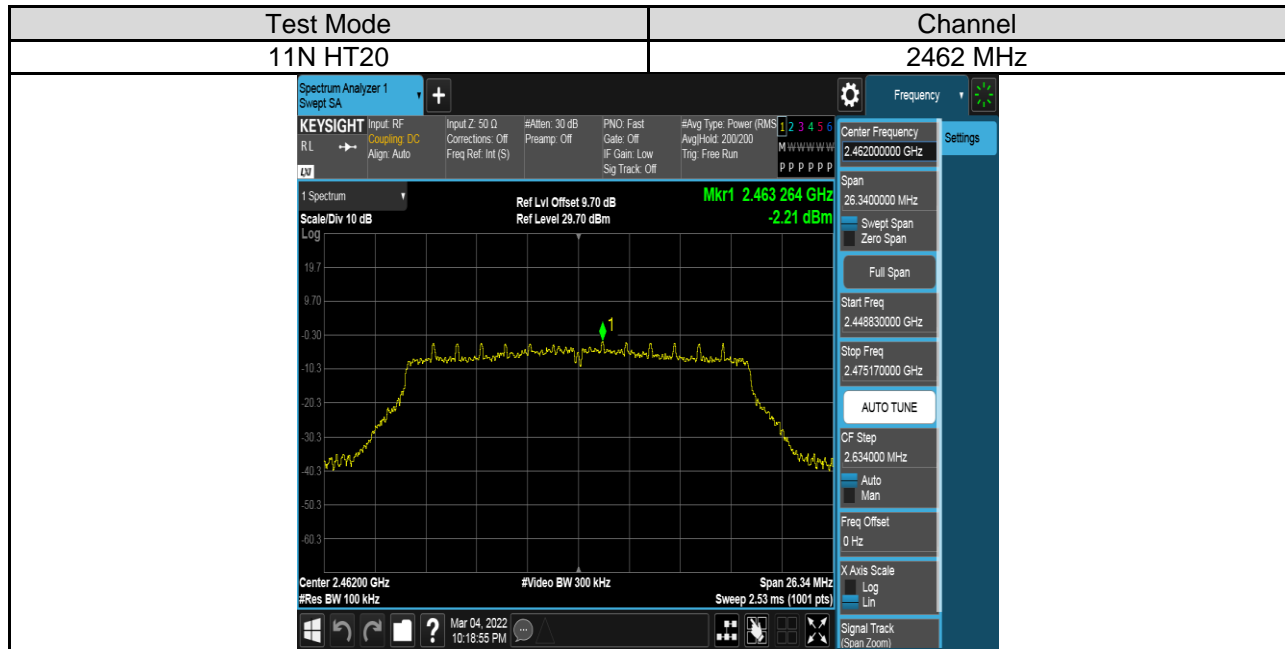














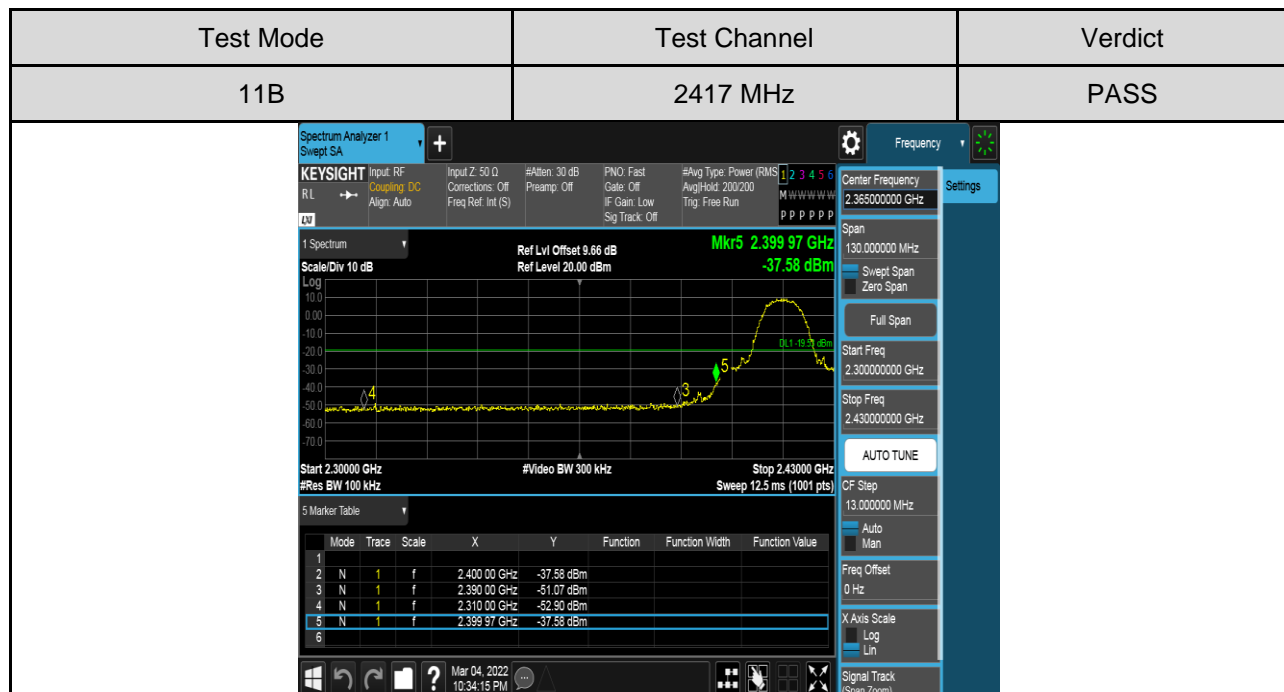
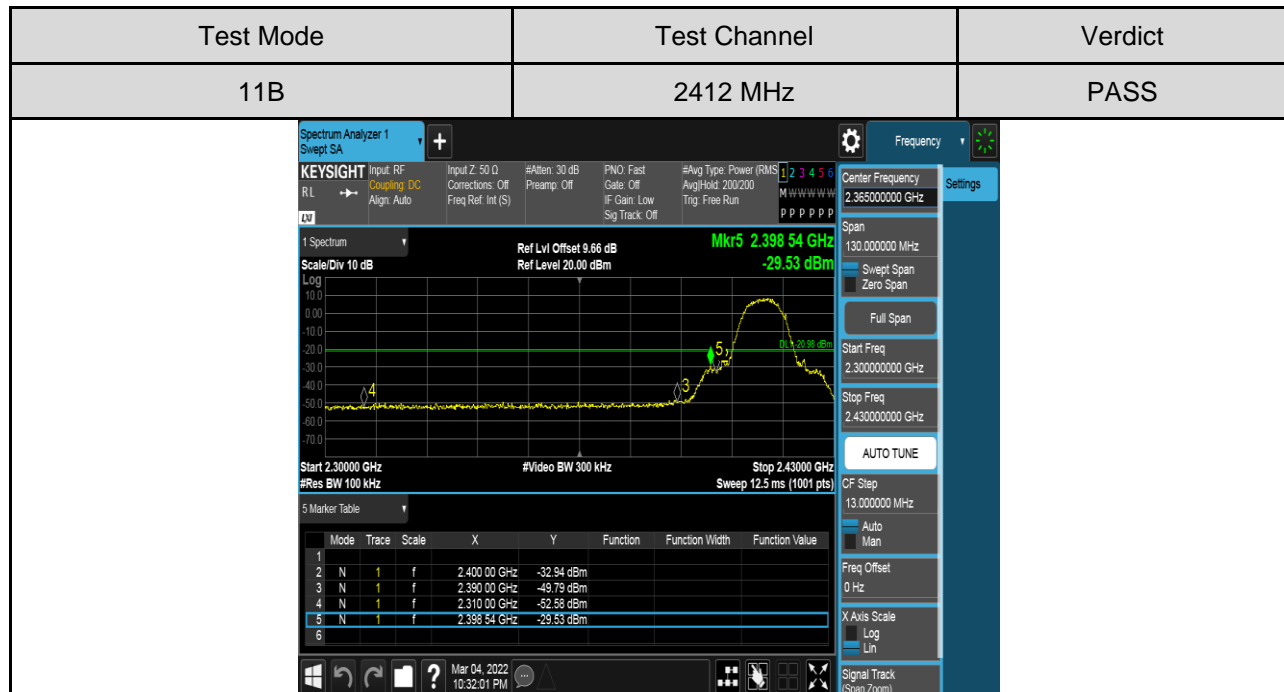
**PART 2: CONDUCTED BANDEDGE**

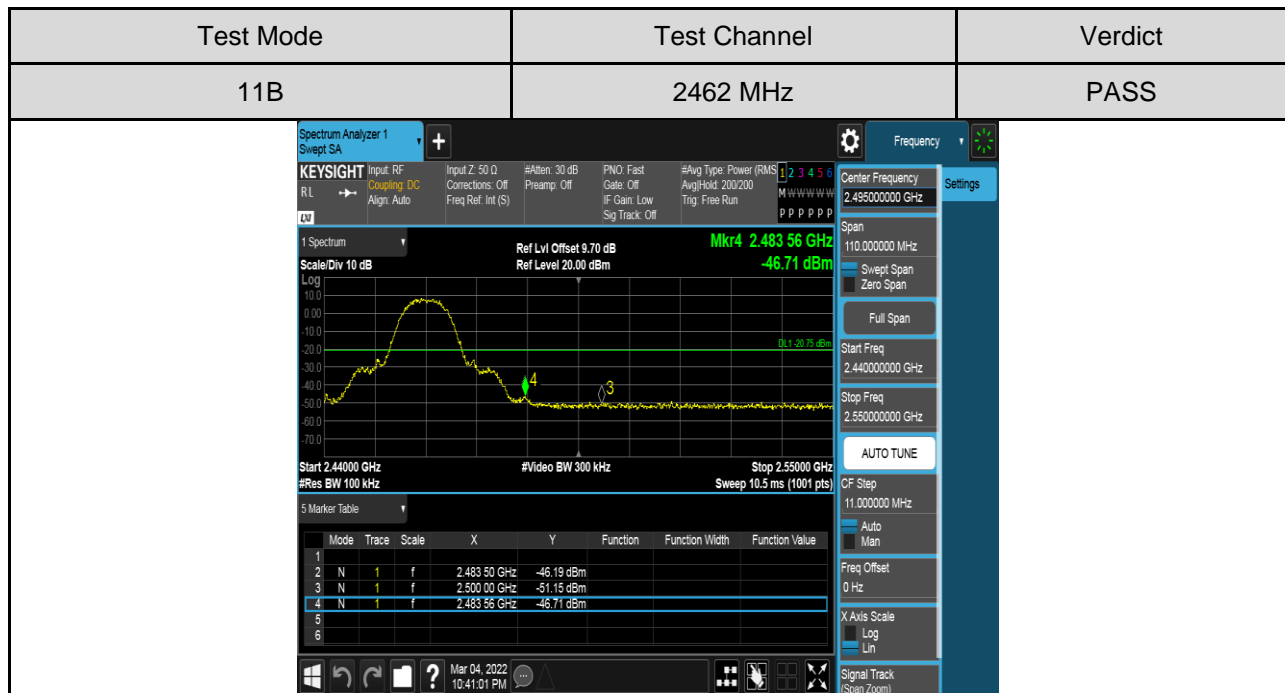
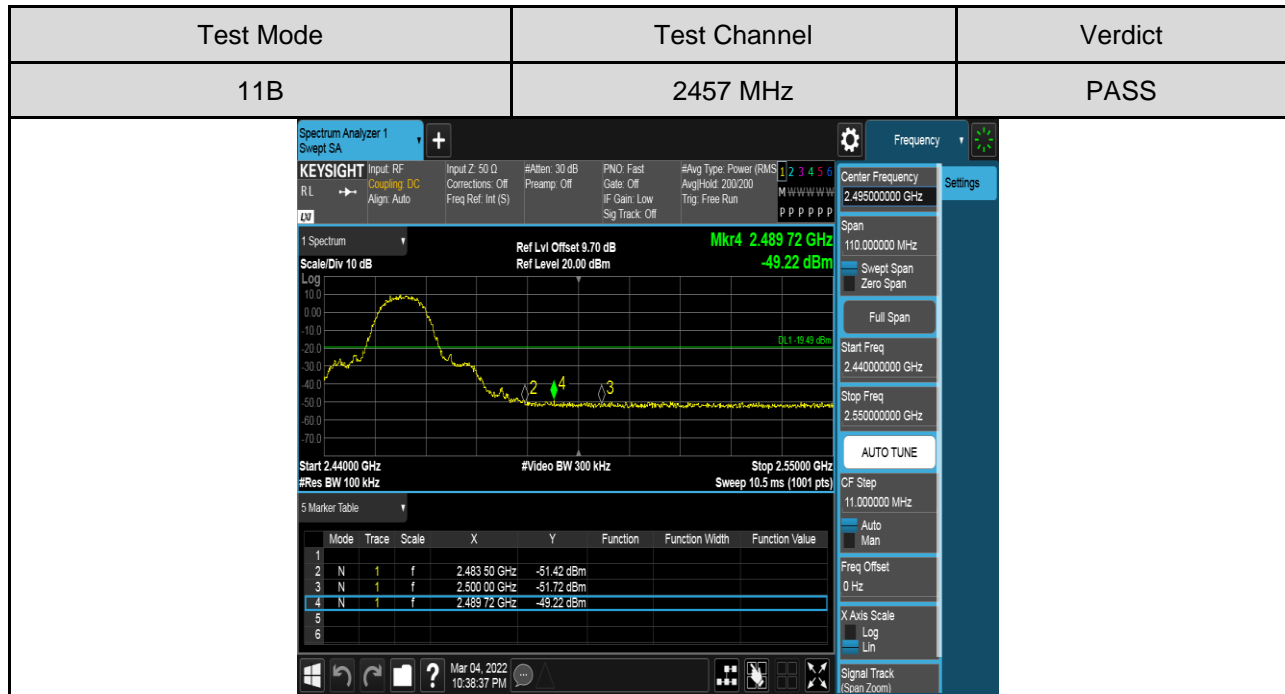
**TEST RESULTS TABLE**

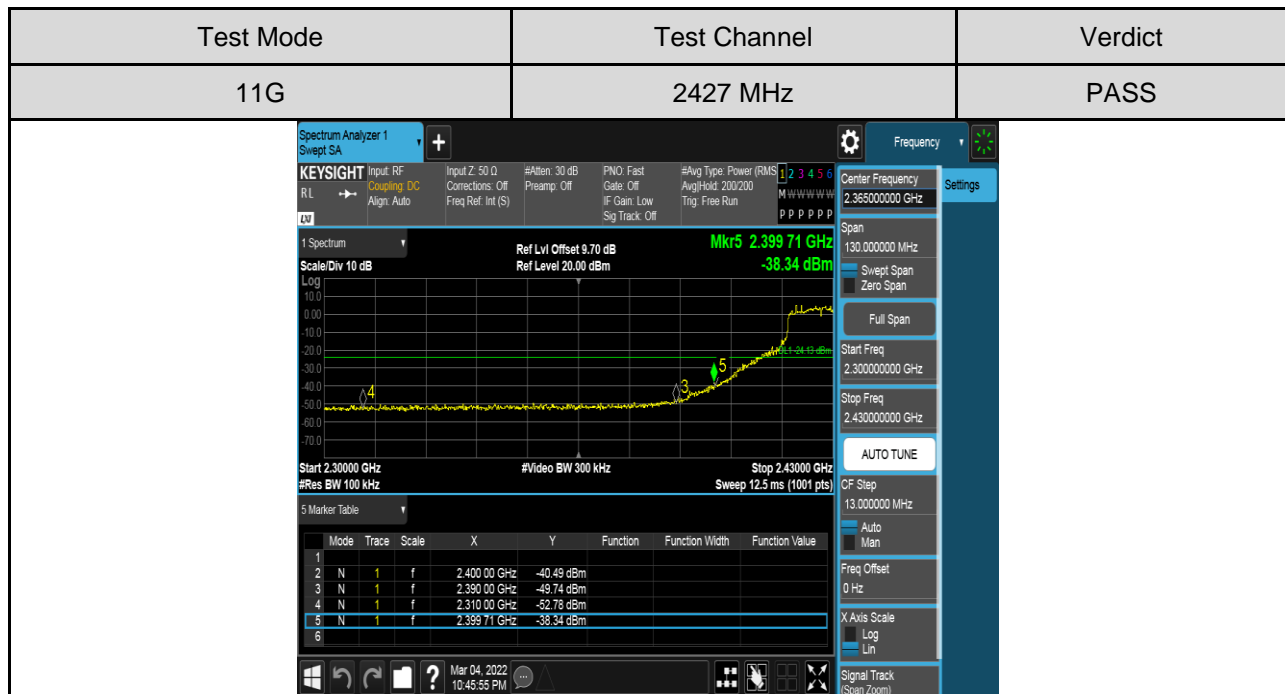
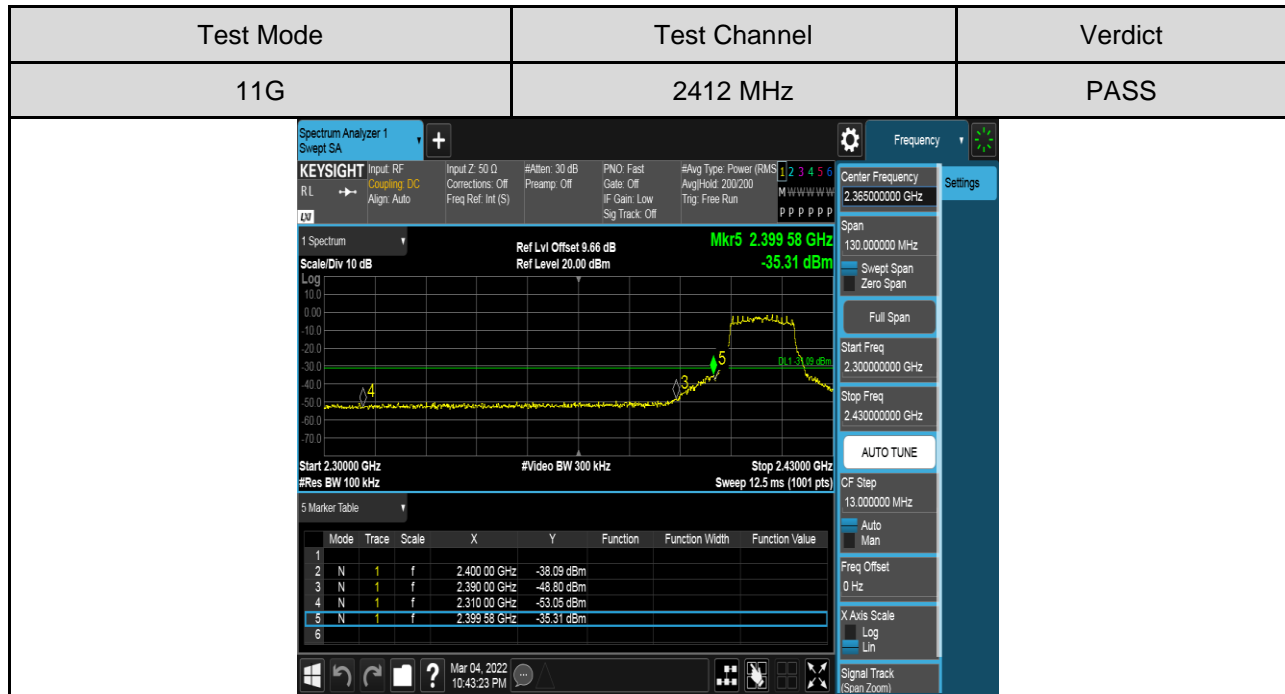
Test Mode	Test Channel	Result	Verdict
11B	2412	Refer to the Test Graph	PASS
	2417	Refer to the Test Graph	PASS
	2457	Refer to the Test Graph	PASS
	2462	Refer to the Test Graph	PASS
11G	2412	Refer to the Test Graph	PASS
	2427	Refer to the Test Graph	PASS
	2447	Refer to the Test Graph	PASS
	2462	Refer to the Test Graph	PASS
11N HT20	2412	Refer to the Test Graph	PASS
	2427	Refer to the Test Graph	PASS
	2447	Refer to the Test Graph	PASS
	2462	Refer to the Test Graph	PASS

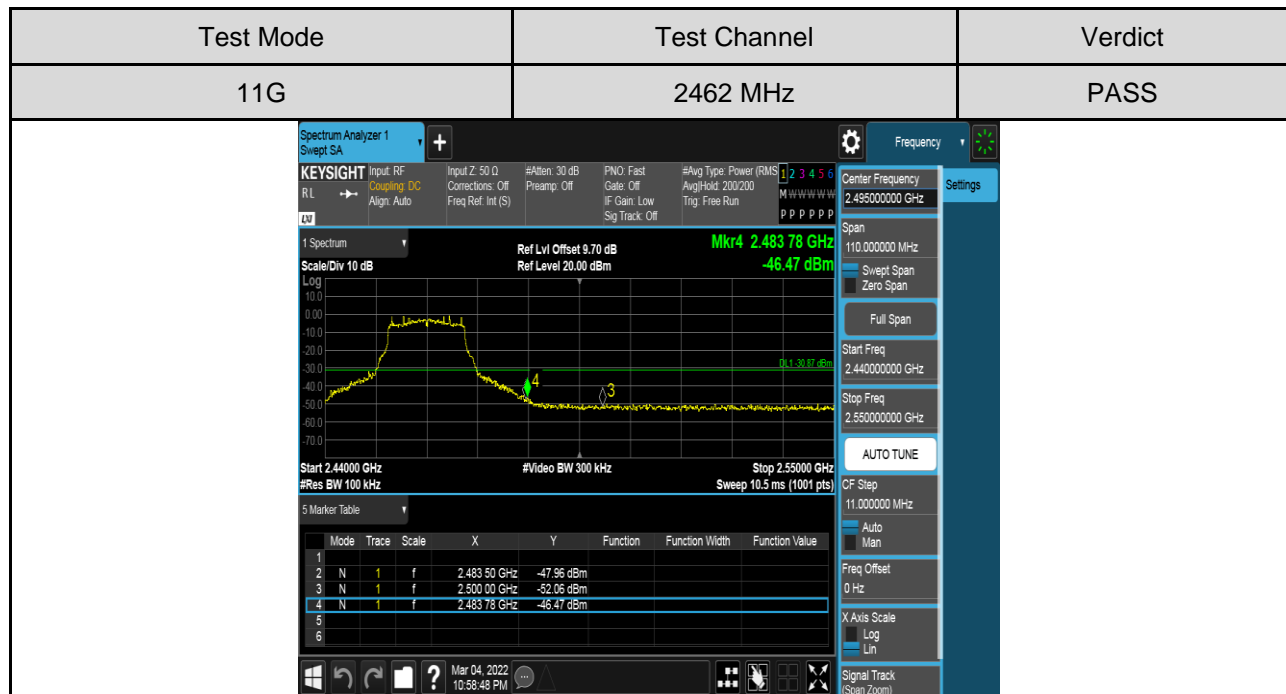
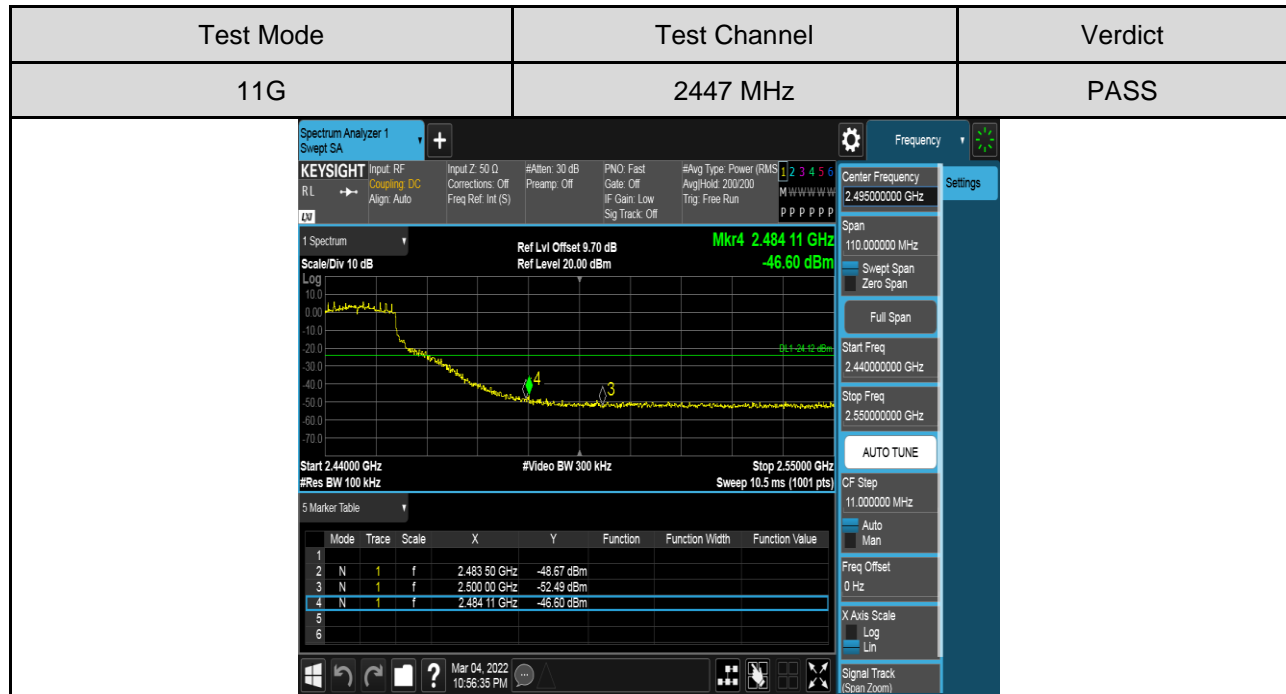


## TEST GRAPHS

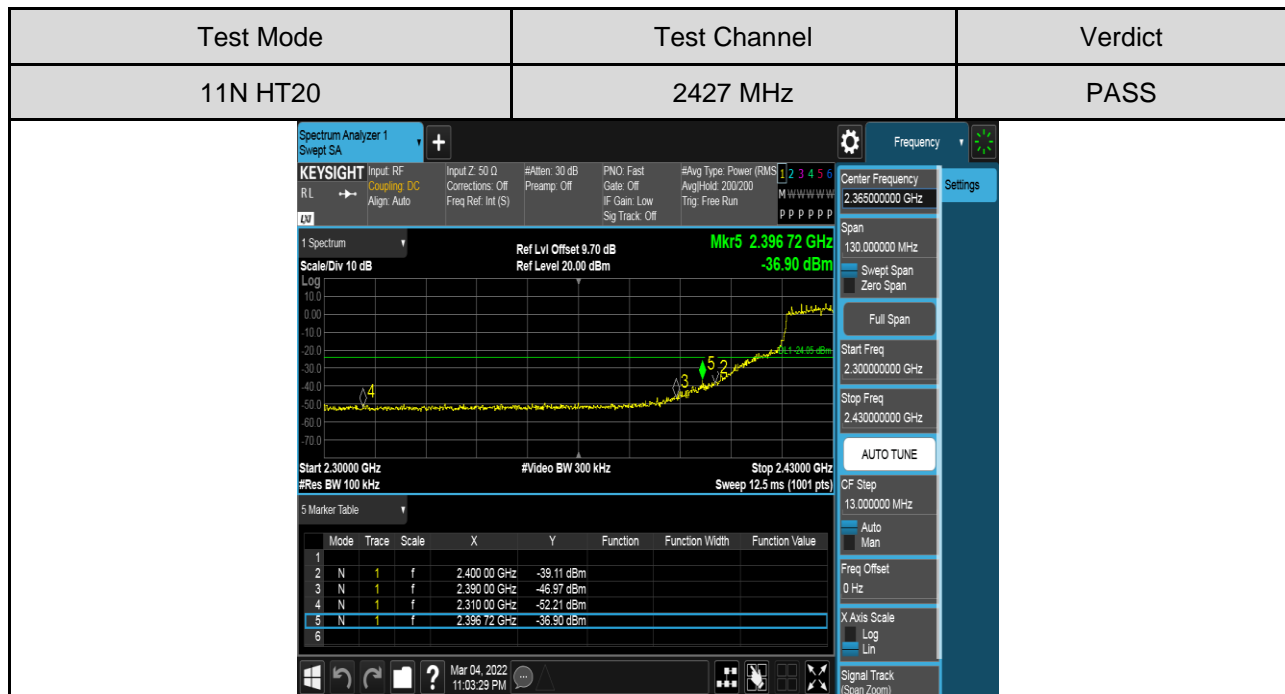
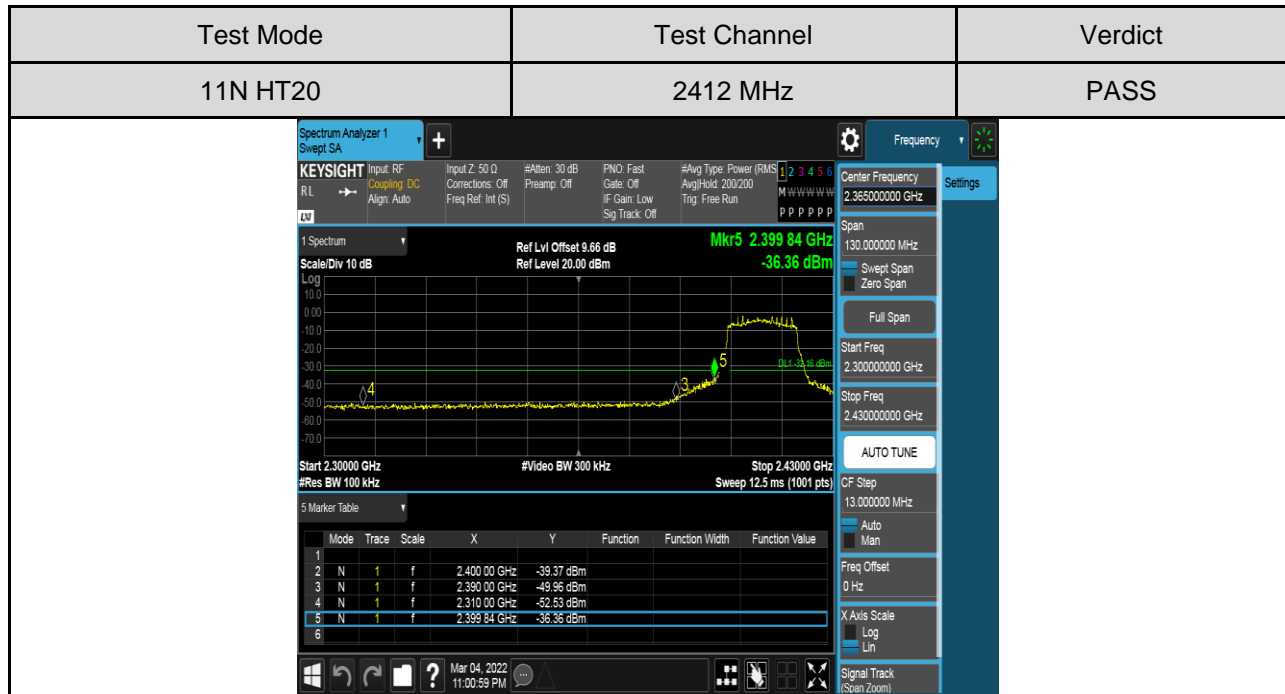


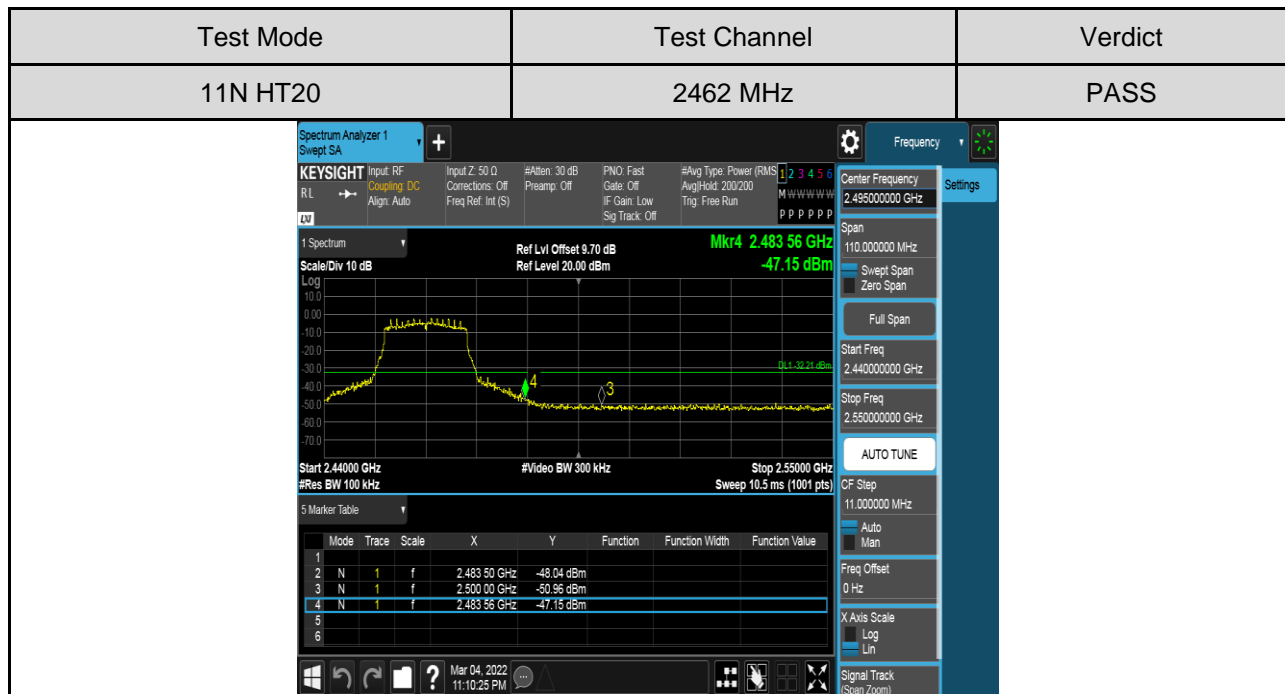
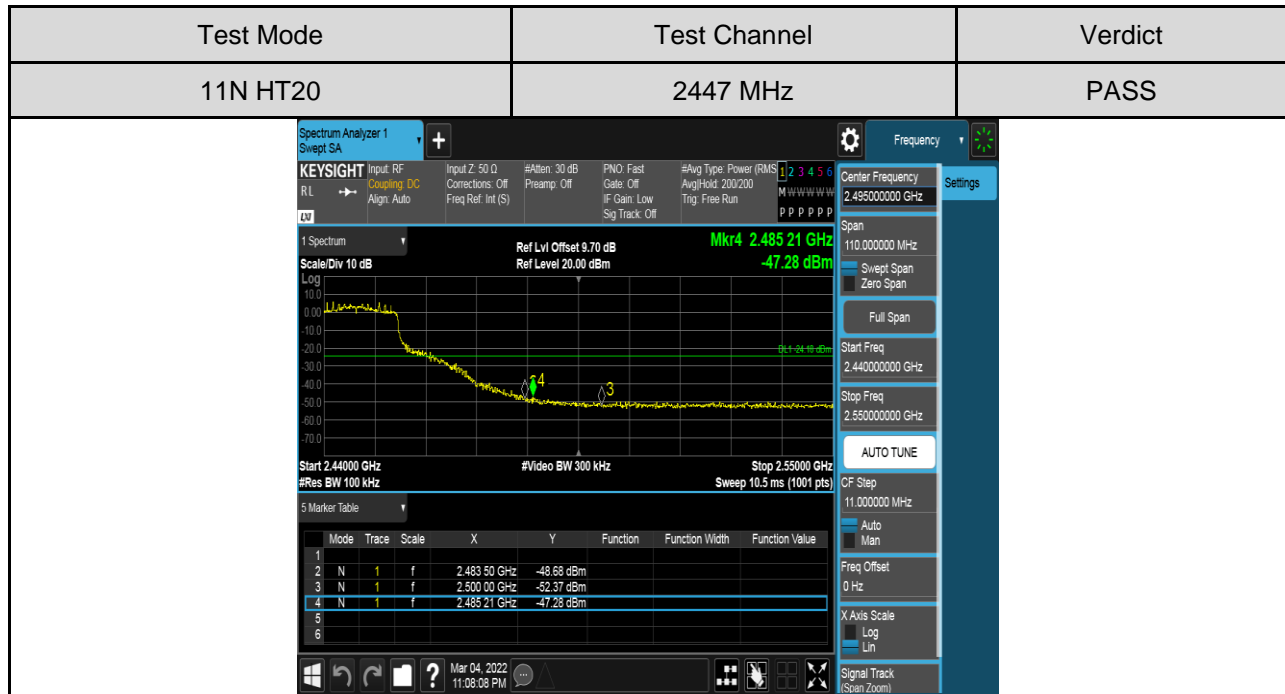














**PART 3: CONDUCTED SPURIOUS EMISSION**

**TEST RESULTS TABLE**

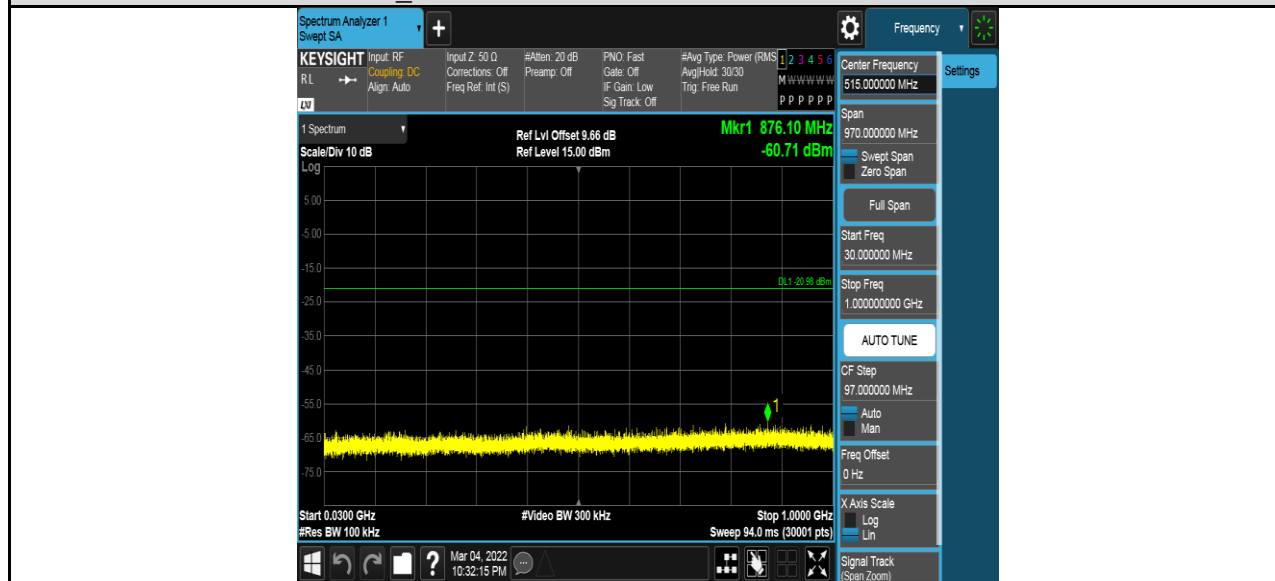
Test Mode	Test Channel	Result	Verdict
11B	2412	Refer to the Test Graph	PASS
	2417	Refer to the Test Graph	PASS
	2437	Refer to the Test Graph	PASS
	2457	Refer to the Test Graph	PASS
	2462	Refer to the Test Graph	PASS
11G	2412	Refer to the Test Graph	PASS
	2427	Refer to the Test Graph	PASS
	2437	Refer to the Test Graph	PASS
	2447	Refer to the Test Graph	PASS
	2462	Refer to the Test Graph	PASS
11N HT20	2412	Refer to the Test Graph	PASS
	2427	Refer to the Test Graph	PASS
	2437	Refer to the Test Graph	PASS
	2447	Refer to the Test Graph	PASS
	2462	Refer to the Test Graph	PASS



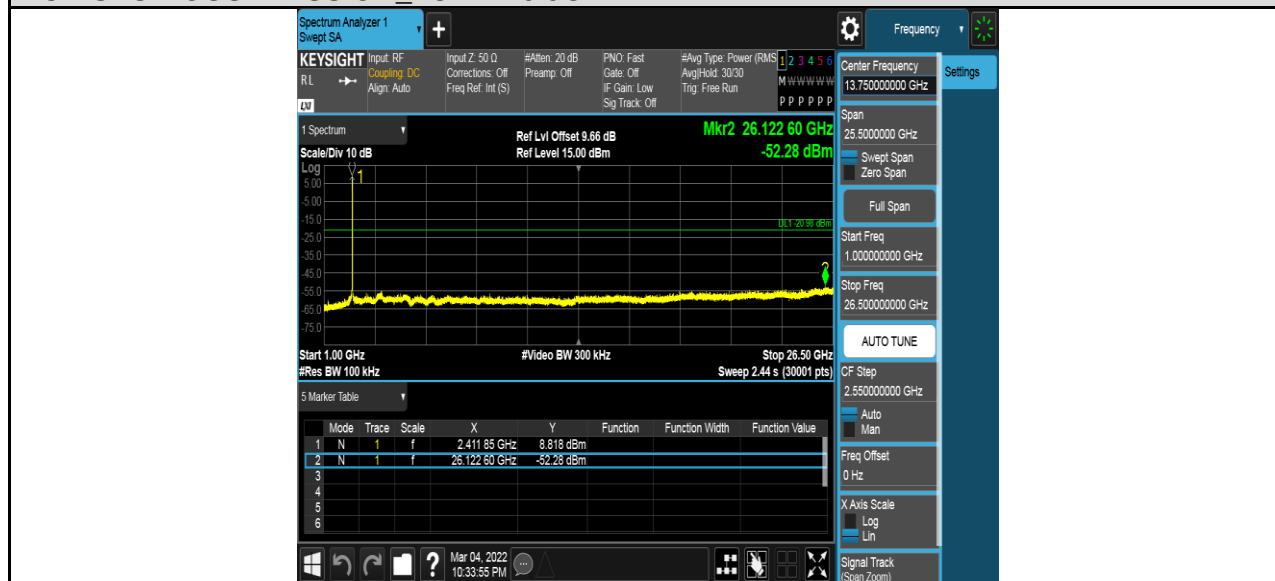
## TEST GRAPHS

Test Mode	Channel	Verdict
11B	2412 MHz	PASS

### LCH SPURIOUS EMISSION\_30MHz~1GHz



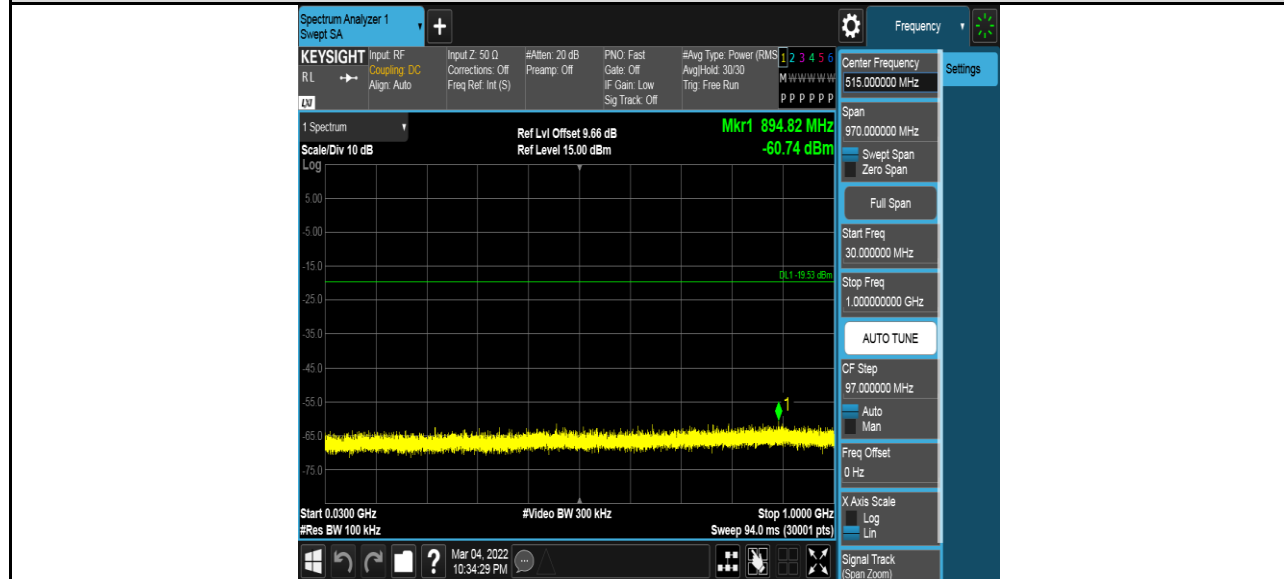
### LCH SPURIOUS EMISSION\_1GHz~26.5GHz





Test Mode	Channel	Verdict
11B	2417 MHz	PASS

#### MCH SPURIOUS EMISSION\_30MHz~1GHz



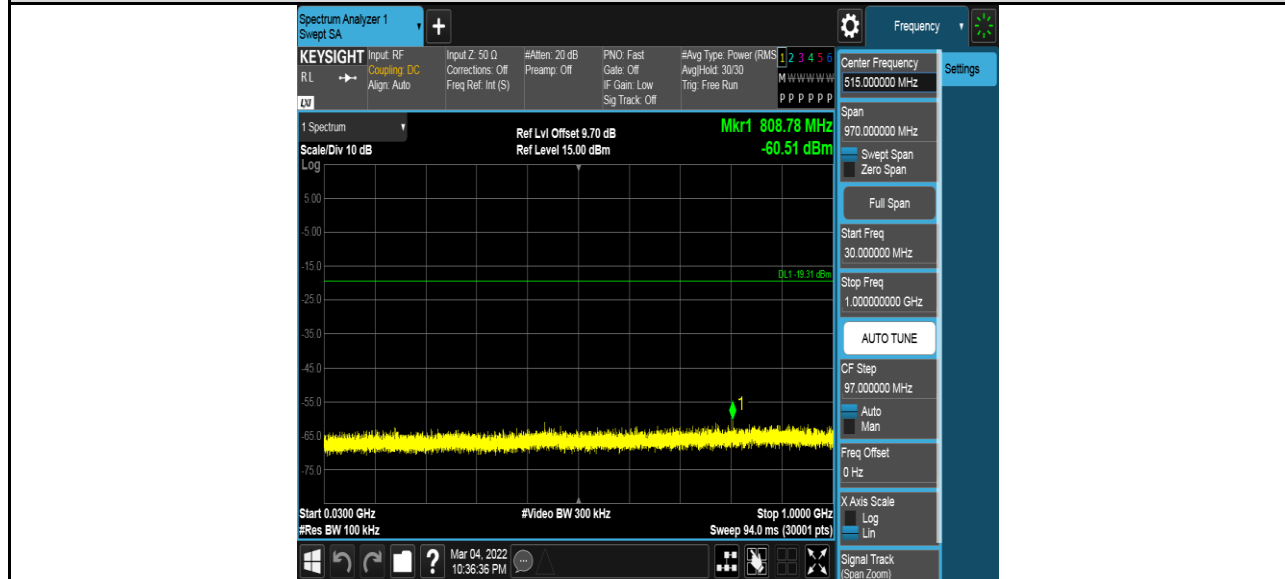
#### MCH SPURIOUS EMISSION\_1GHz~26.5GHz





Test Mode	Channel	Verdict
11B	2437 MHz	PASS

#### MCH SPURIOUS EMISSION\_30MHz~1GHz



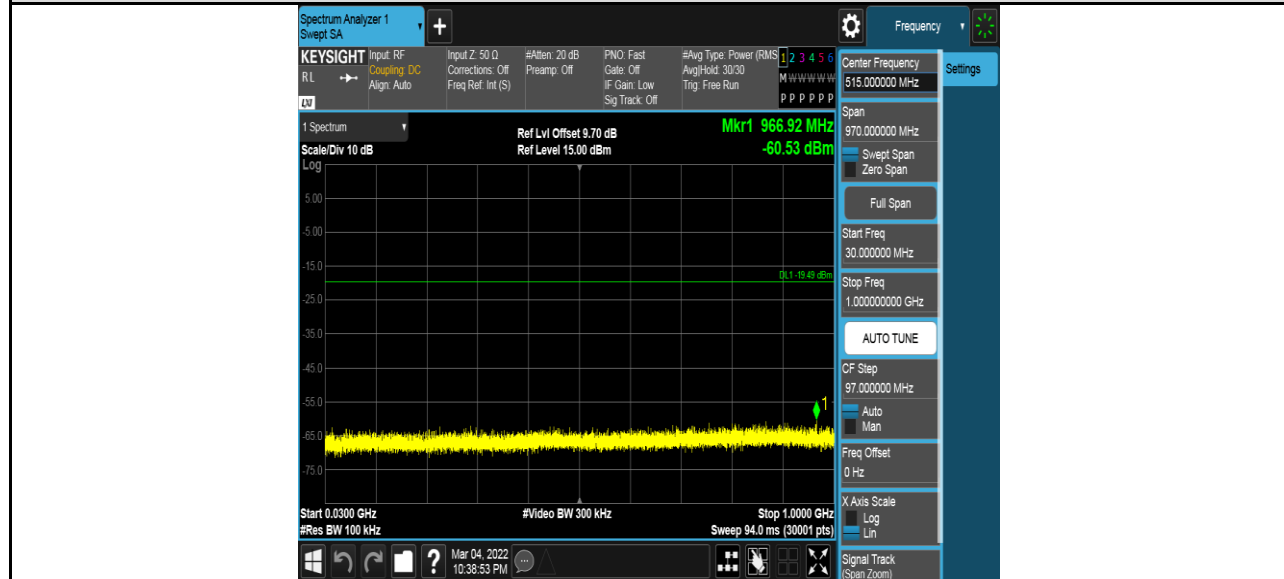
#### MCH SPURIOUS EMISSION\_1GHz~26.5GHz





Test Mode	Channel	Verdict
11B	2457 MHz	PASS

#### MCH SPURIOUS EMISSION\_30MHz~1GHz



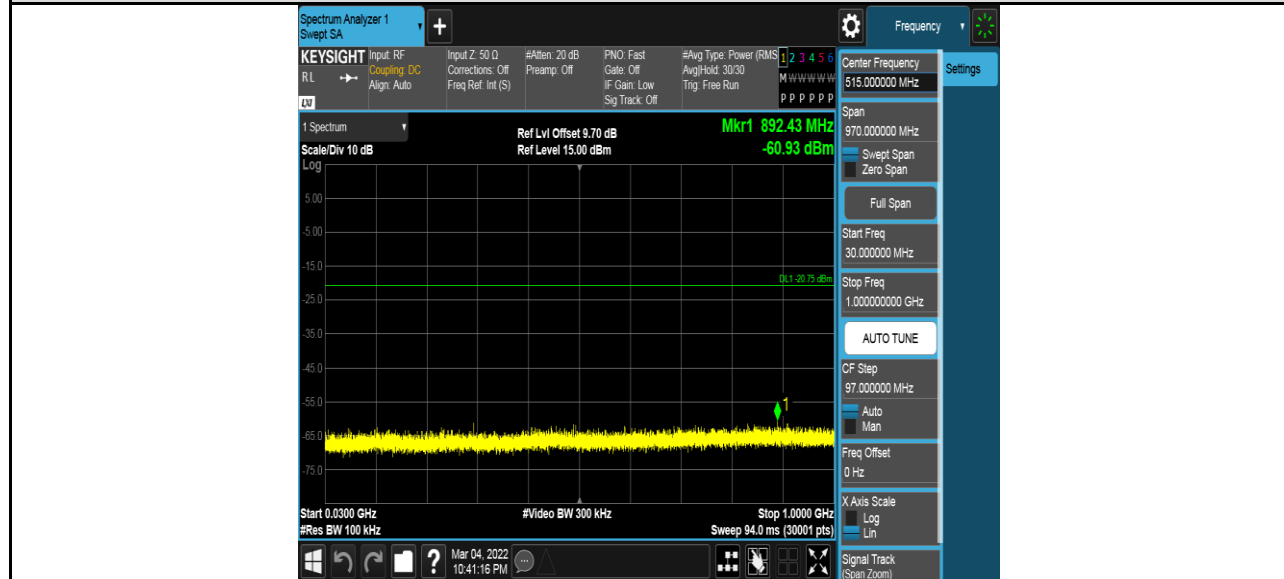
#### MCH SPURIOUS EMISSION\_1GHz~26.5GHz





Test Mode	Channel	Verdict
11B	2462 MHz	PASS

#### HCH SPURIOUS EMISSION\_30MHz~1GHz



#### HCH SPURIOUS EMISSION\_1GHz~26.5GHz

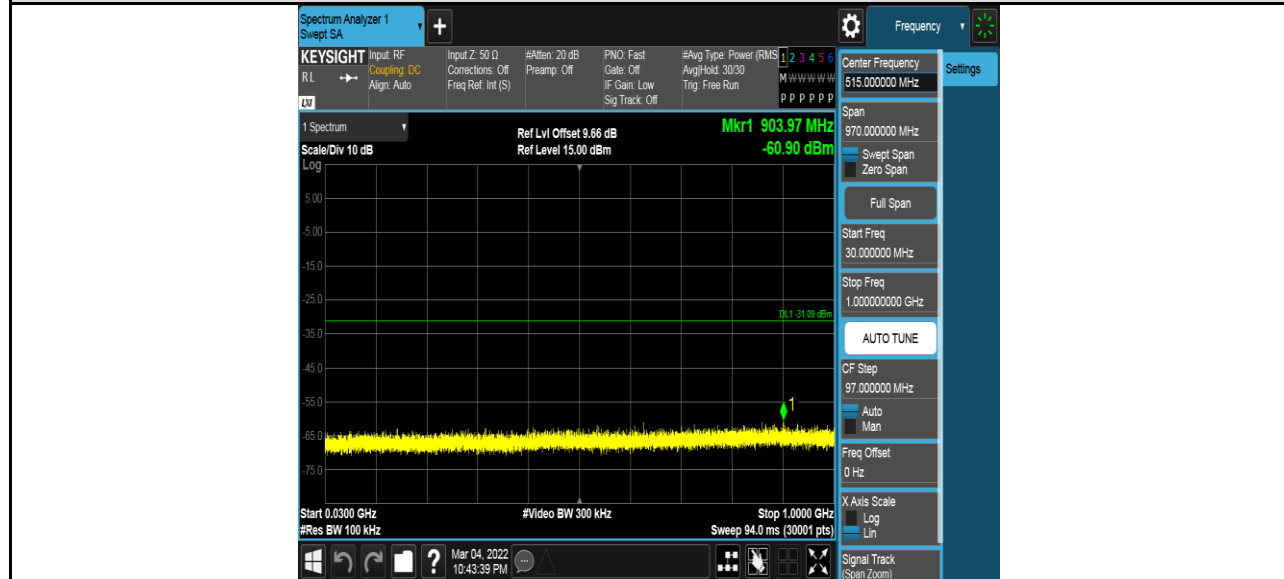






Test Mode	Channel	Verdict
11G	2412 MHz	PASS

#### LCH SPURIOUS EMISSION\_30MHz~1GHz



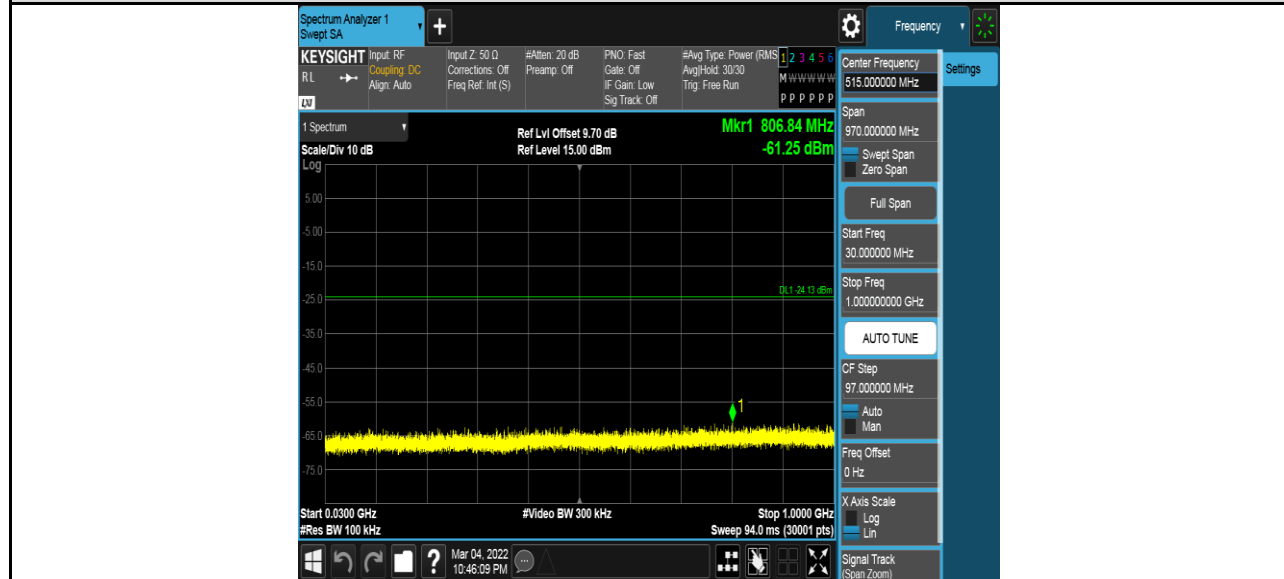
#### LCH SPURIOUS EMISSION\_1GHz~26.5GHz





Test Mode	Channel	Verdict
11G	2427 MHz	PASS

#### MCH SPURIOUS EMISSION\_30MHz~1GHz



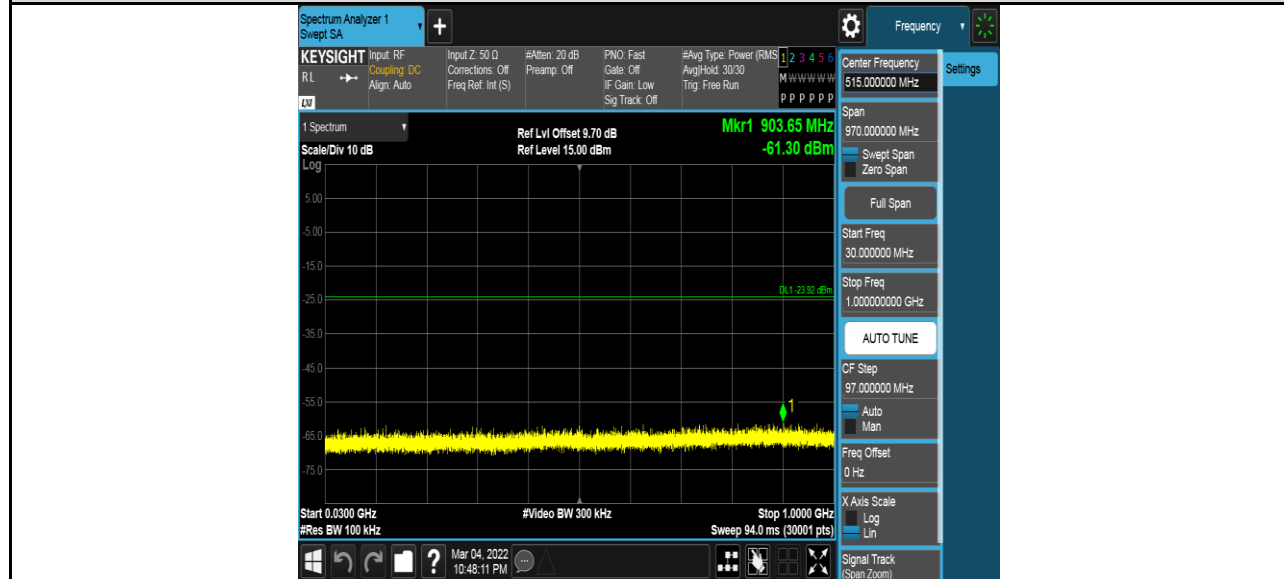
#### MCH SPURIOUS EMISSION\_1GHz~26.5GHz





Test Mode	Channel	Verdict
11G	2437 MHz	PASS

#### MCH SPURIOUS EMISSION\_30MHz~1GHz



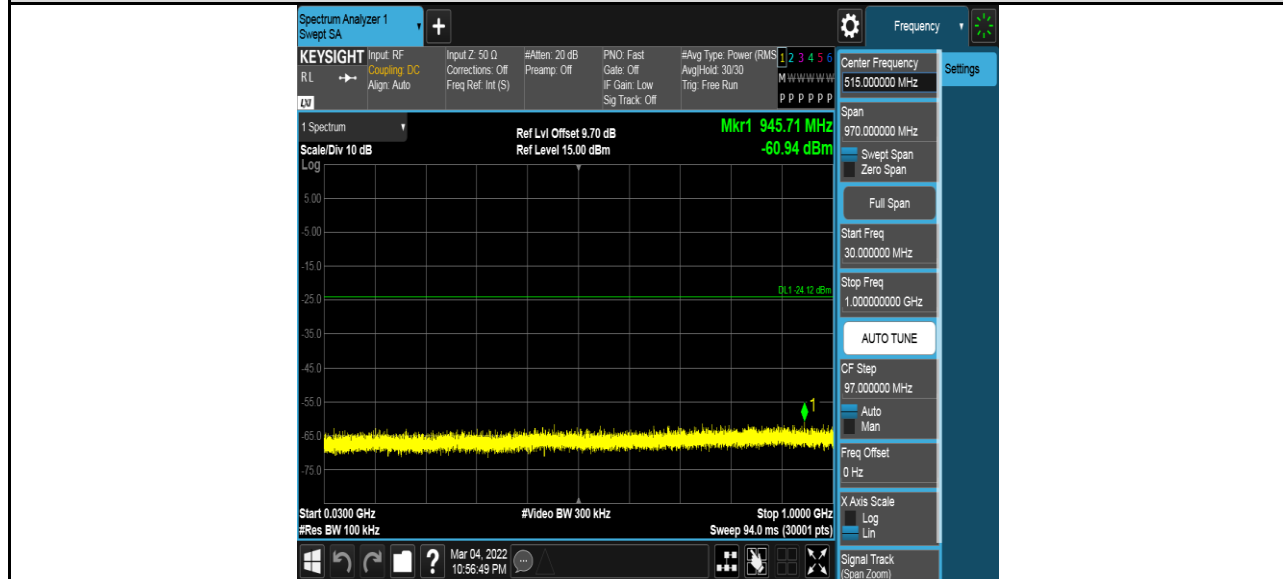
#### MCH SPURIOUS EMISSION\_1GHz~26.5GHz





Test Mode	Channel	Verdict
11G	2447 MHz	PASS

#### MCH SPURIOUS EMISSION\_30MHz~1GHz



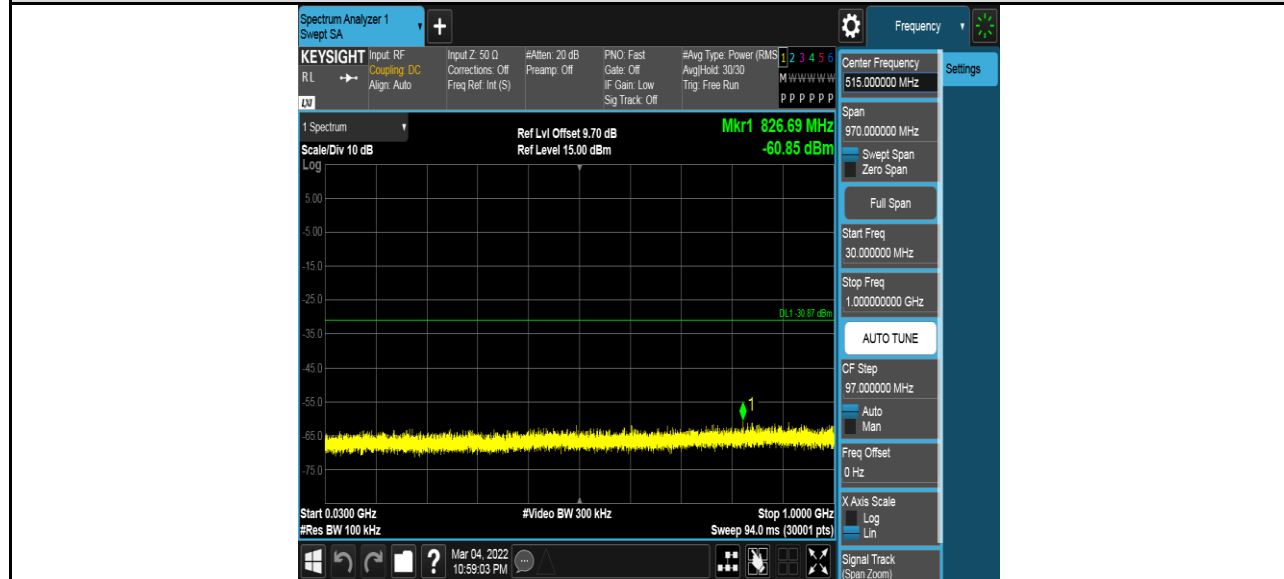
#### MCH SPURIOUS EMISSION\_1GHz~26.5GHz



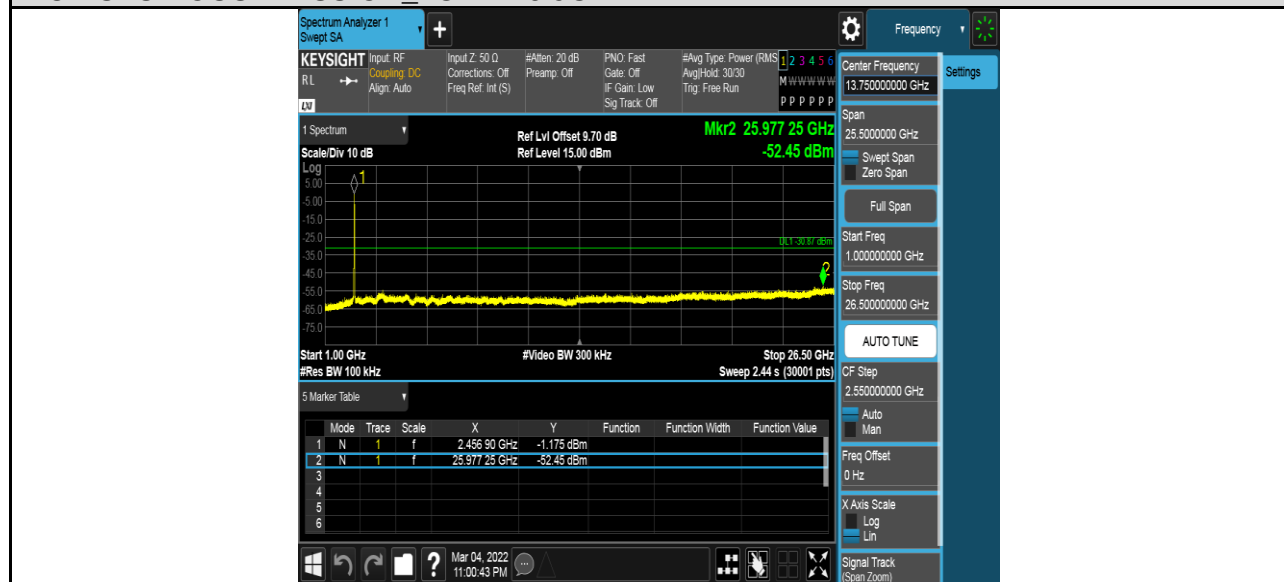


Test Mode	Channel	Verdict
11G	2462 MHz	PASS

#### HCH SPURIOUS EMISSION\_30MHz~1GHz



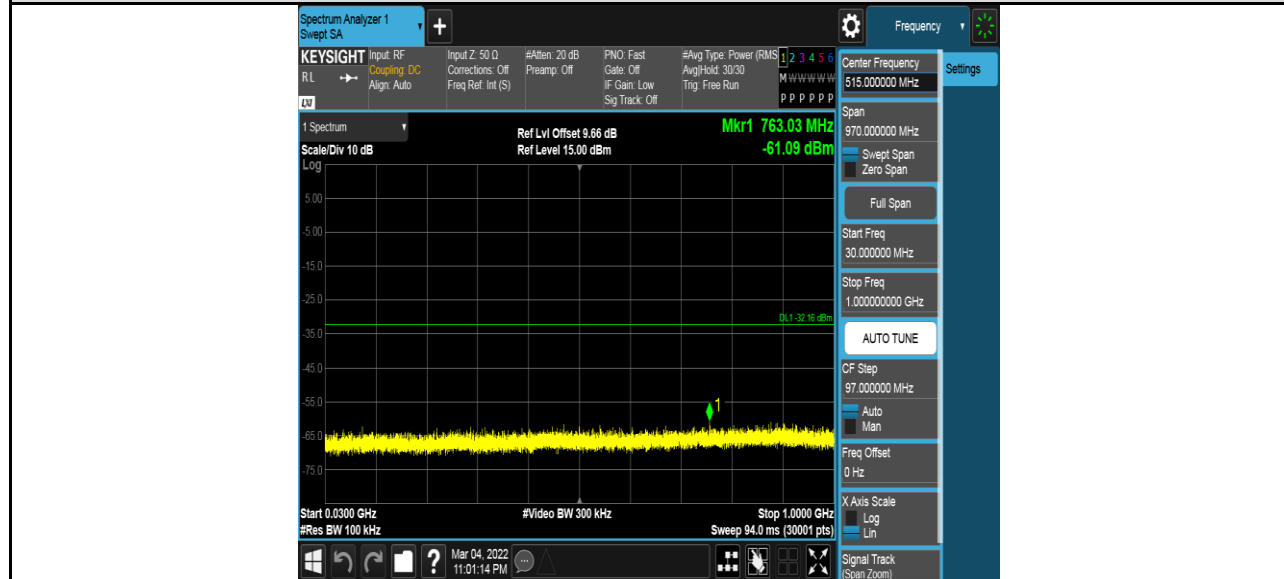
#### HCH SPURIOUS EMISSION\_1GHz~26.5GHz





Test Mode	Channel	Verdict
11N HT20	2412 MHz	PASS

#### LCH SPURIOUS EMISSION\_30MHz~1GHz



#### LCH SPURIOUS EMISSION\_1GHz~26.5GHz

