

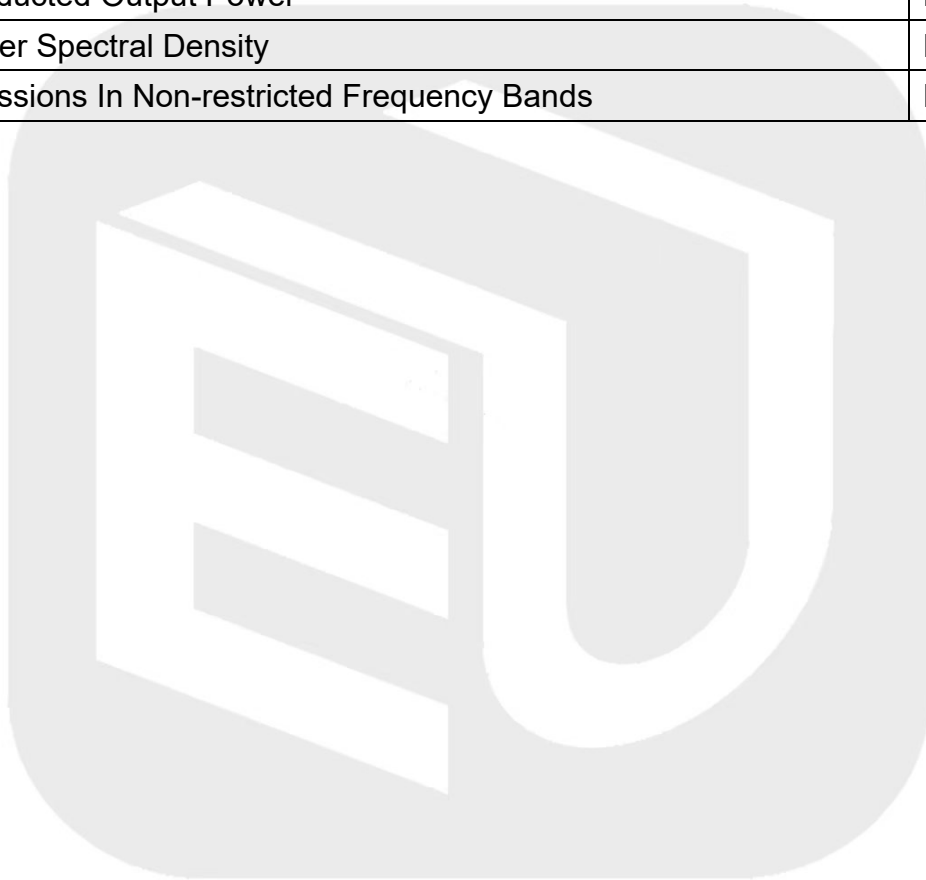
# ANNEX E TEST DATA

## For

Project No.:	8229EU013101W
Client:	Shenzhen Qianyan Technology LTD
Product Name:	Govee Net Lights
Model No.:	H6810
FCC ID:	2A7VD-H6810
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-06-20

## Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass



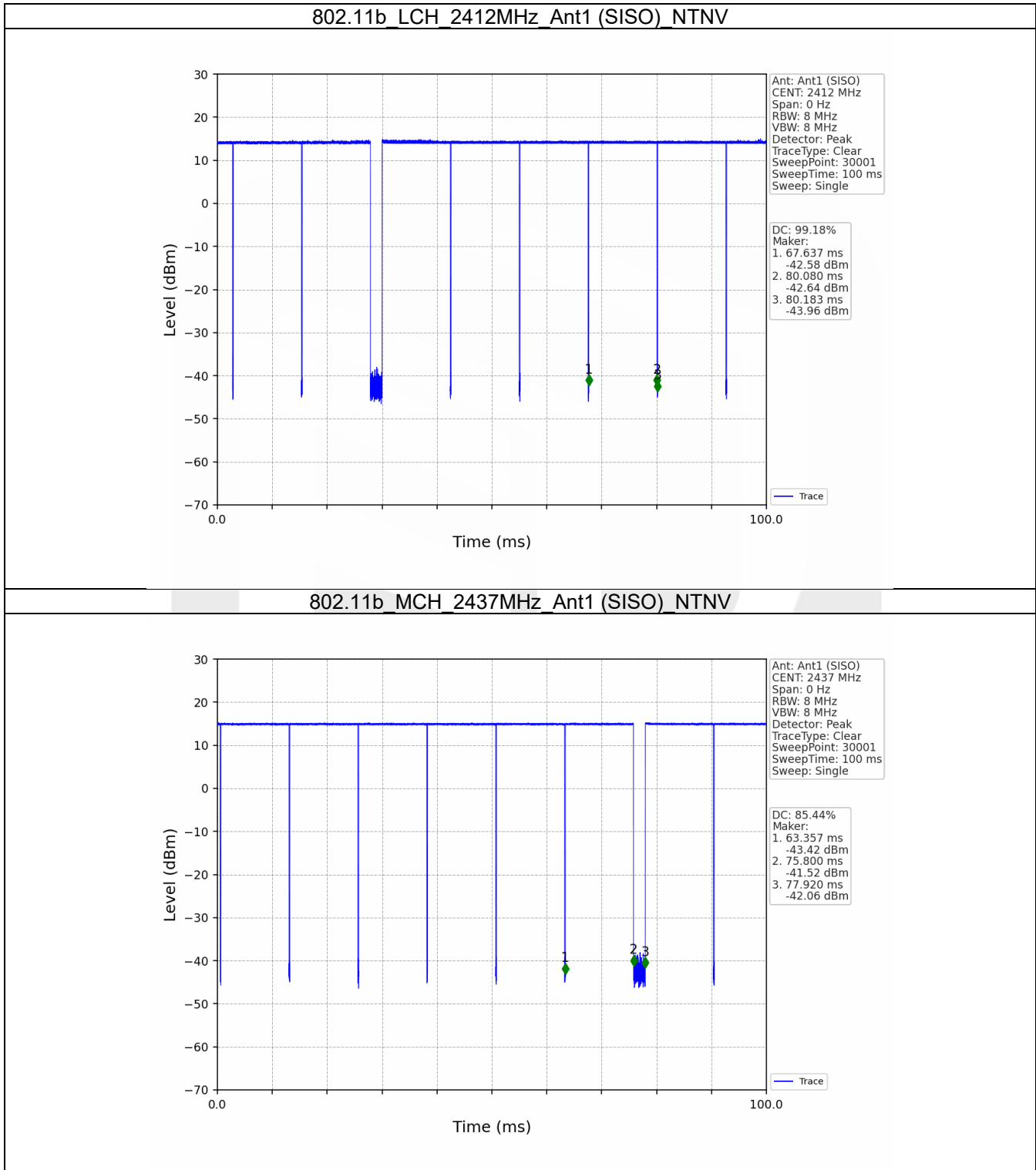
## 1. Duty Cycle

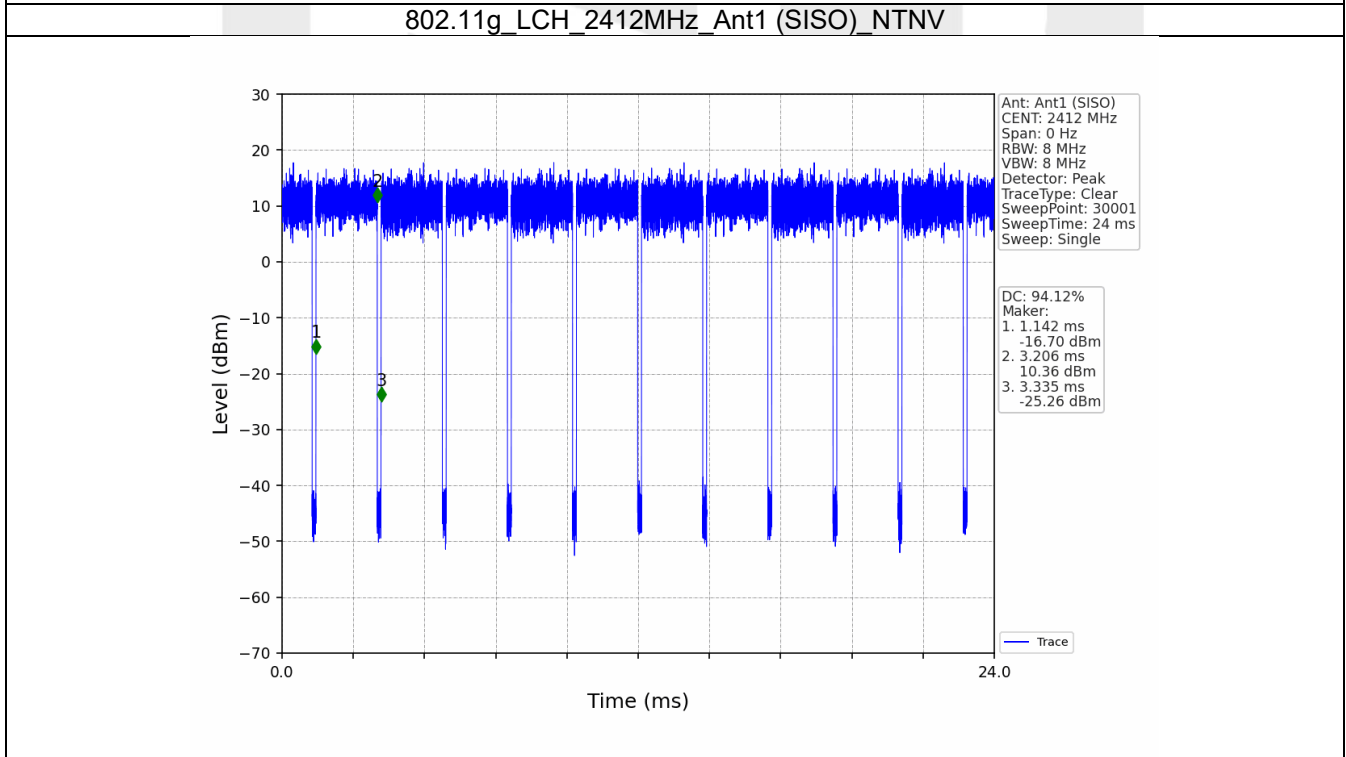
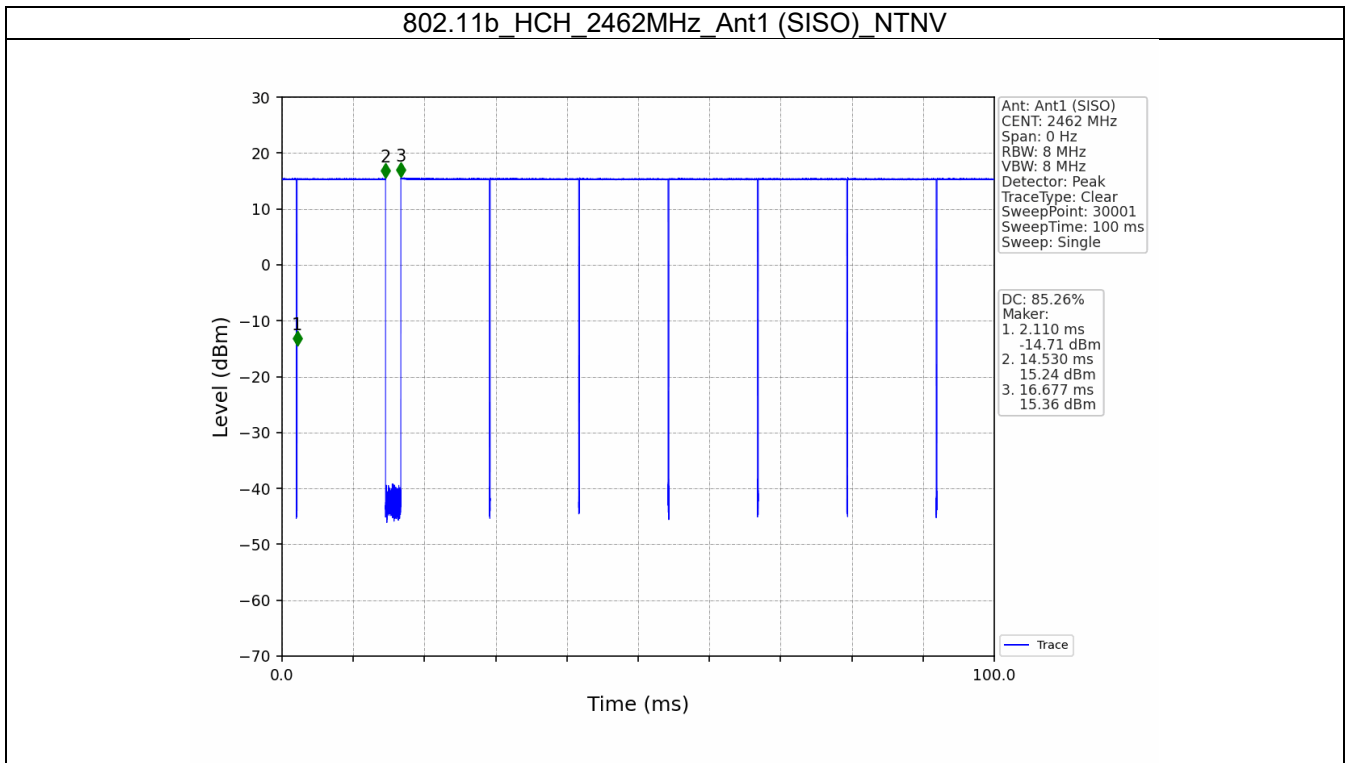
### 1.1 Ant1

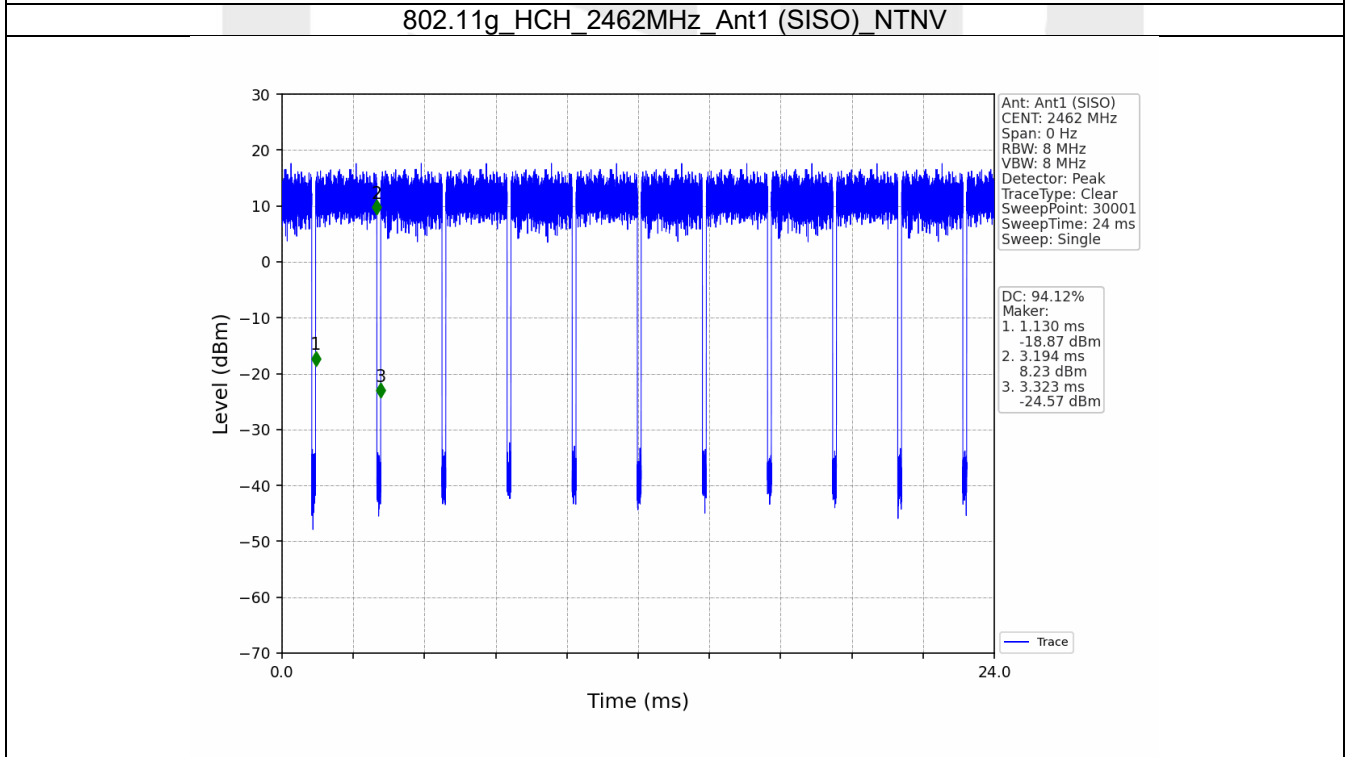
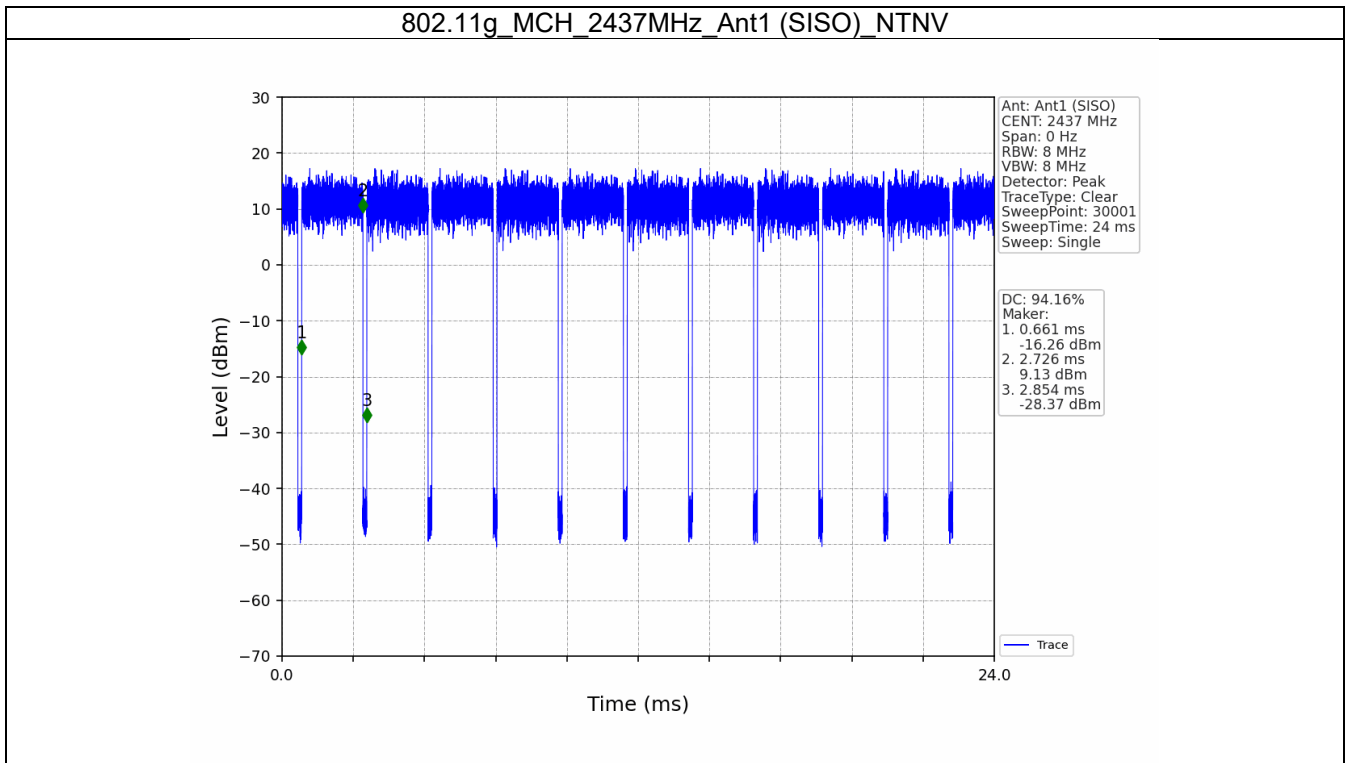
#### 1.1.1 Test Result

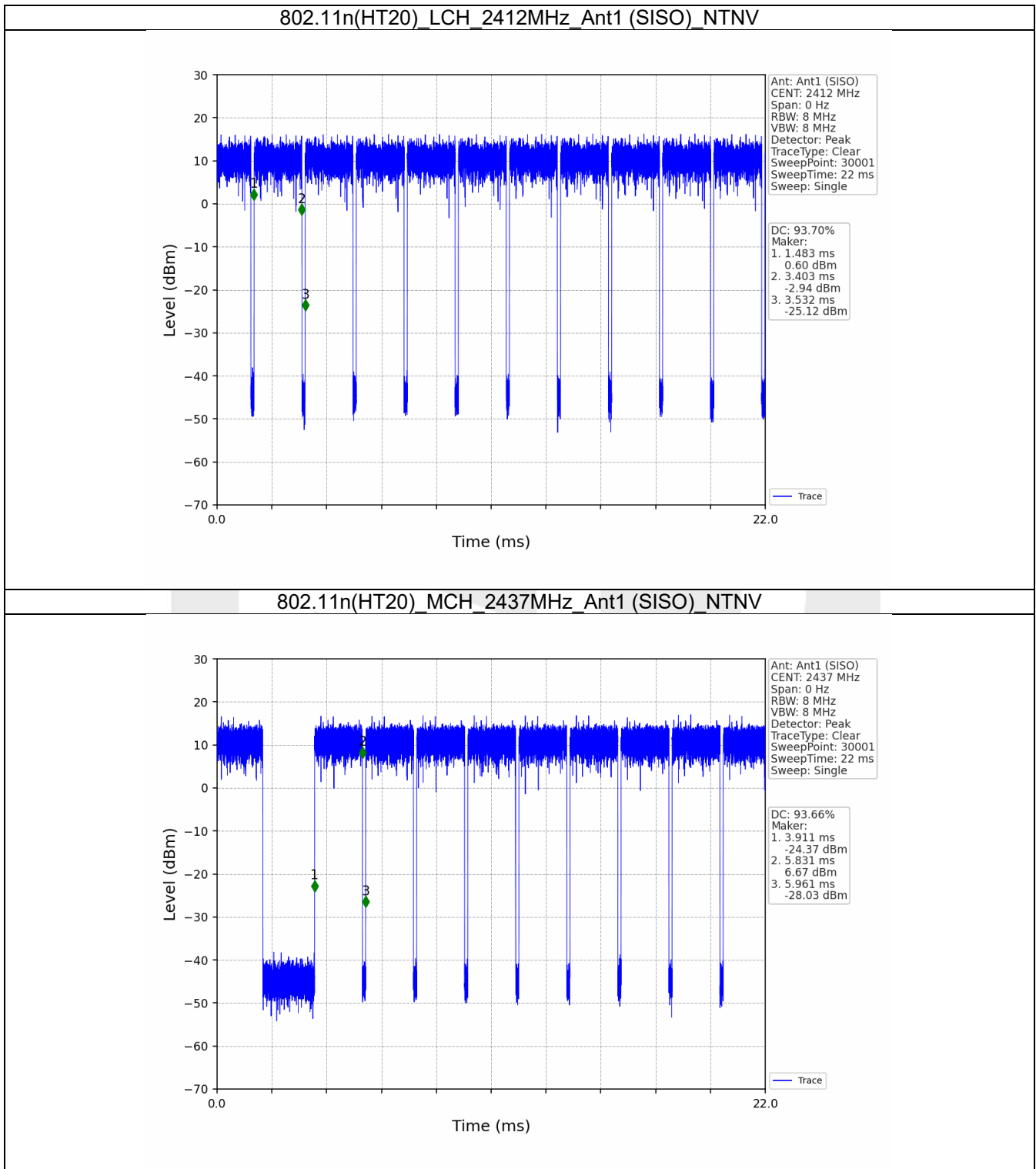
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.443	12.546	99.18	0.04	0.03
		2437	12.443	14.563	85.44	0.68	13.74
		2462	12.420	14.567	85.26	0.69	13.73
802.11g	SISO	2412	2.064	2.193	94.12	0.26	0.00
		2437	2.065	2.193	94.16	0.26	0.04
		2462	2.064	2.193	94.12	0.26	0.00
802.11n (HT20)	SISO	2412	1.920	2.049	93.70	0.28	0.04
		2437	1.920	2.050	93.66	0.28	0.00
		2462	1.920	2.049	93.70	0.28	0.00

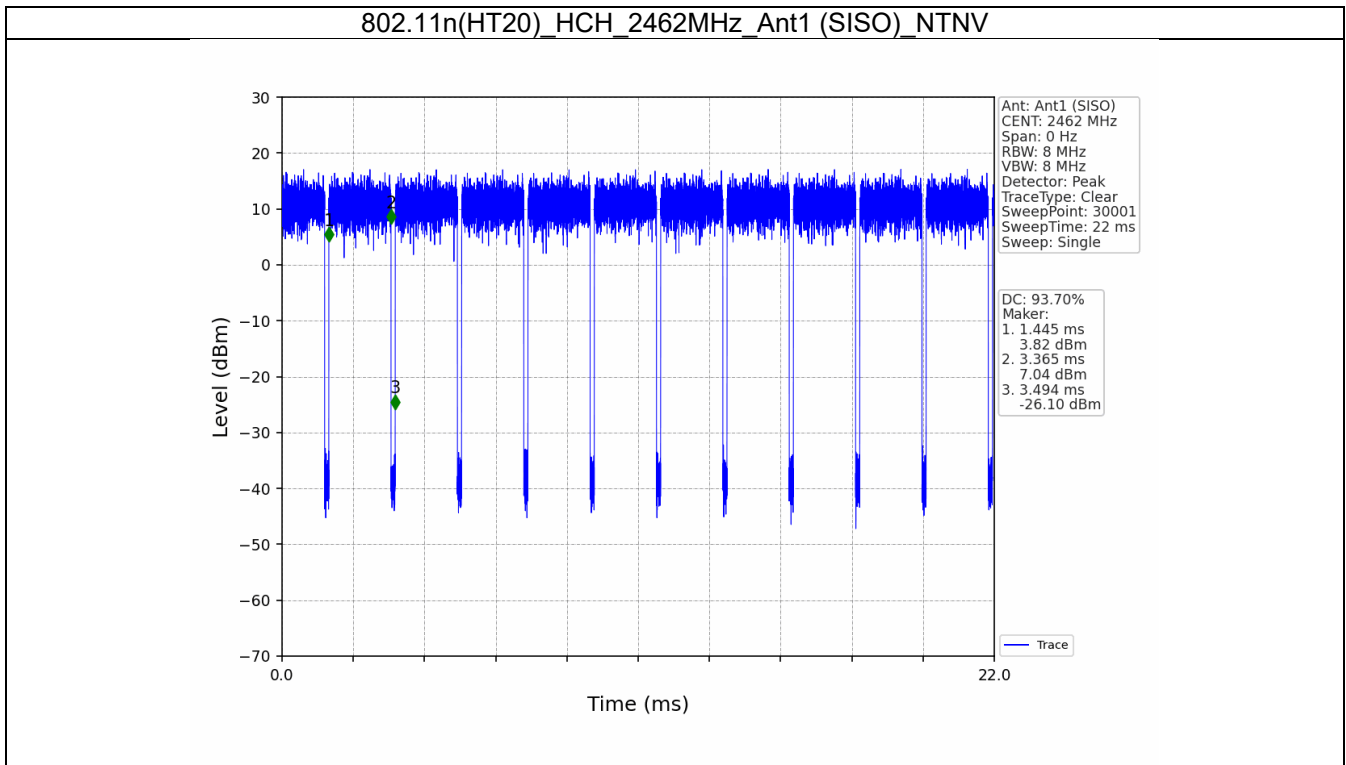
1.1.2 Test Graph













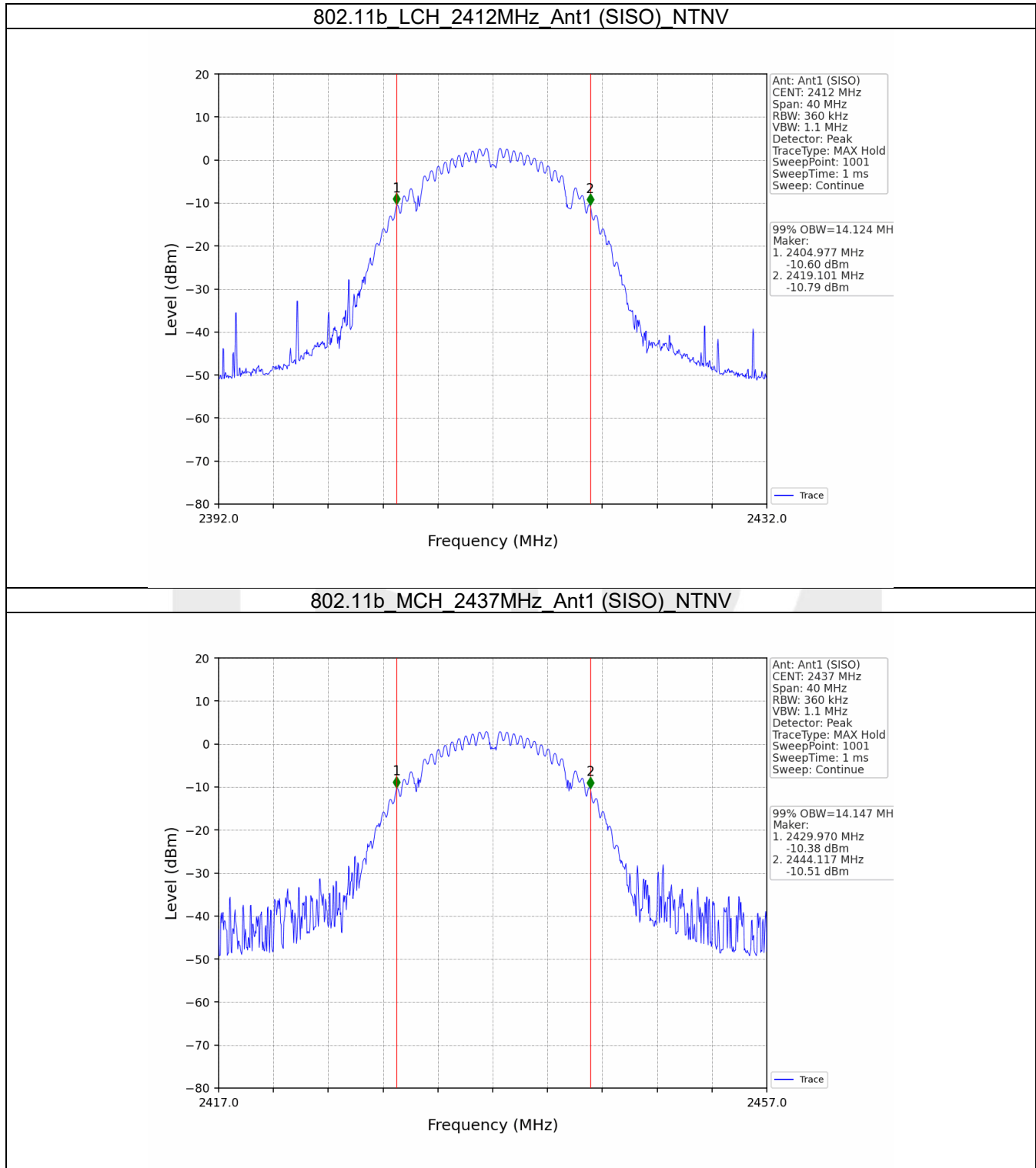
## 2. Bandwidth

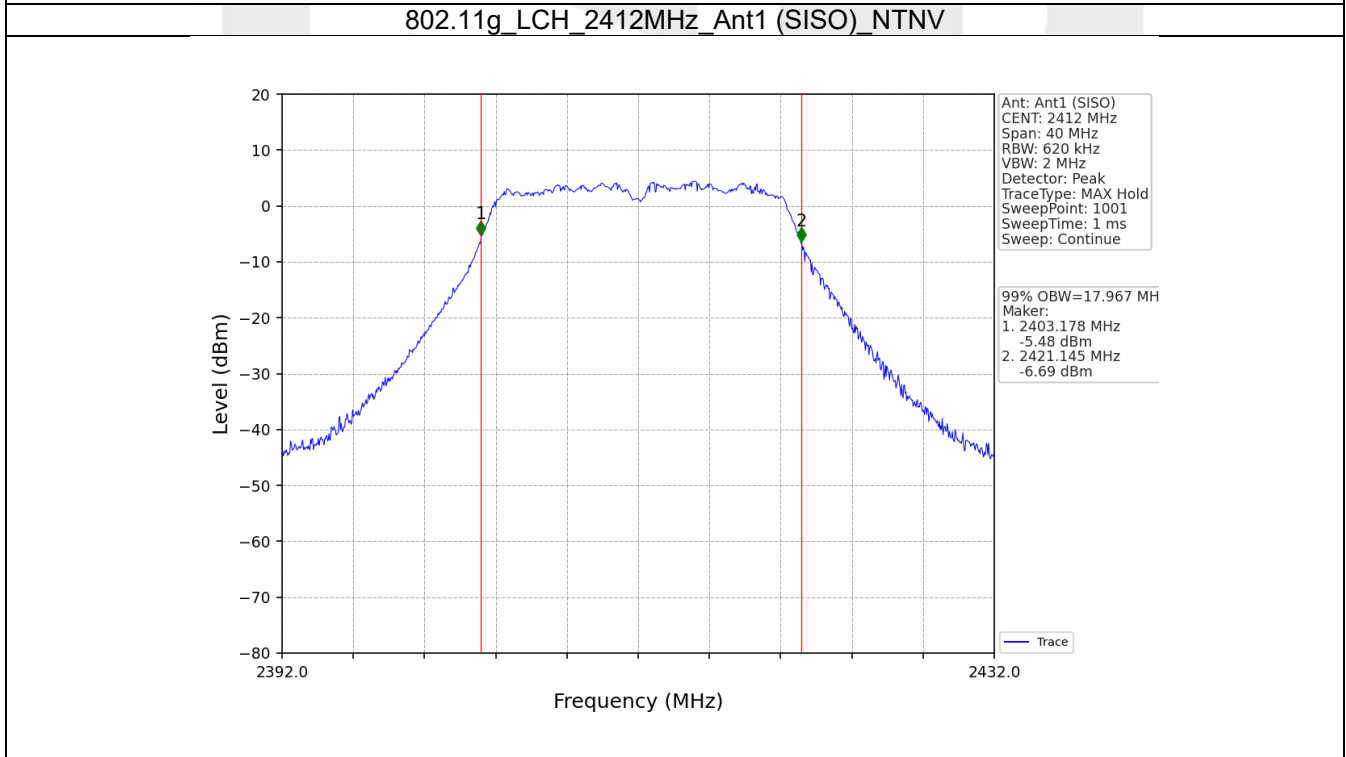
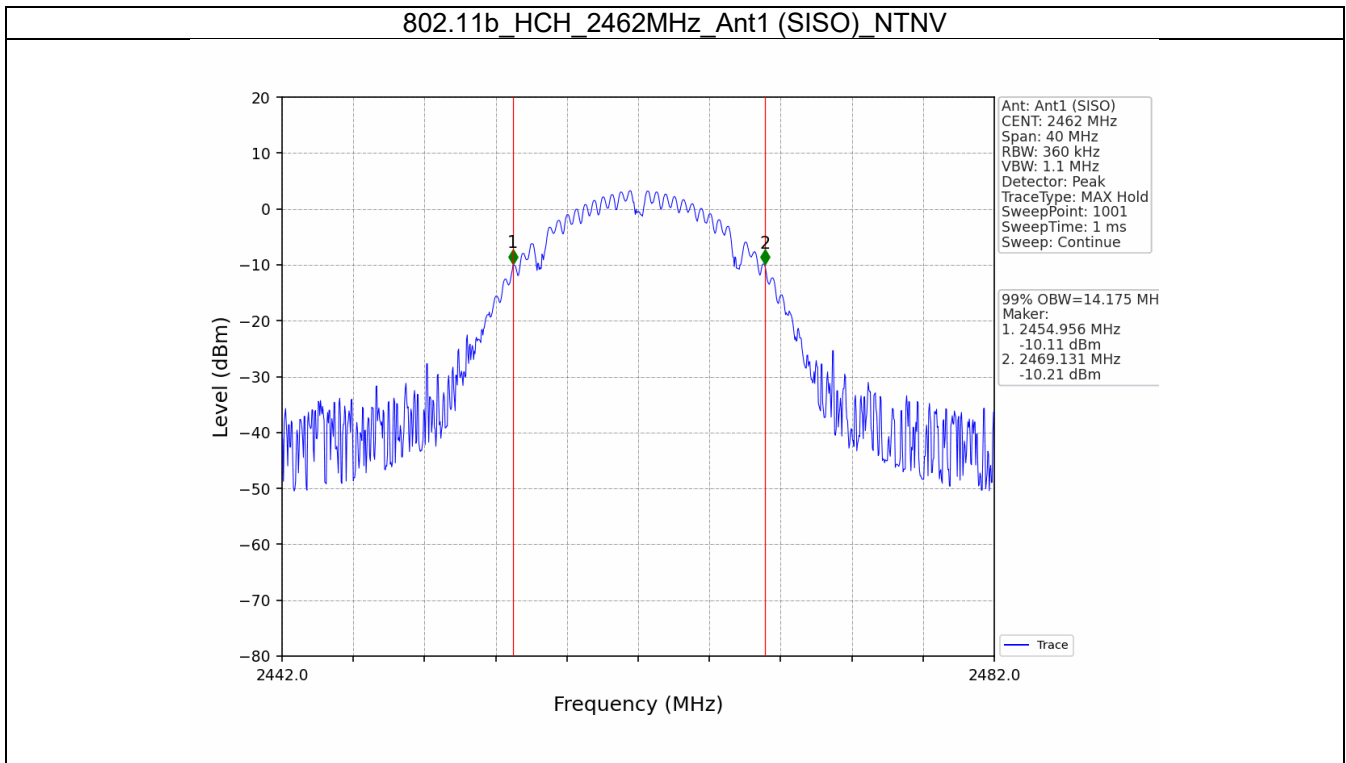
### 2.1 OBW

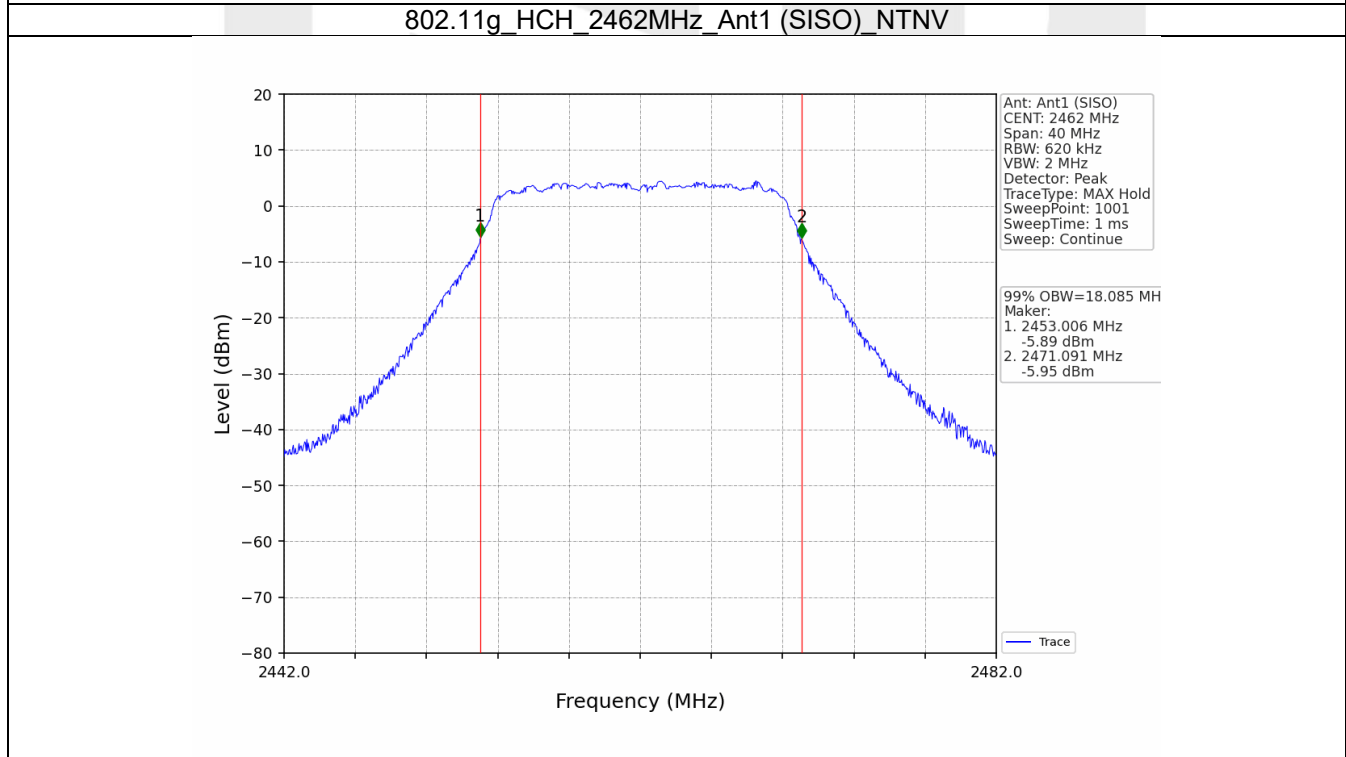
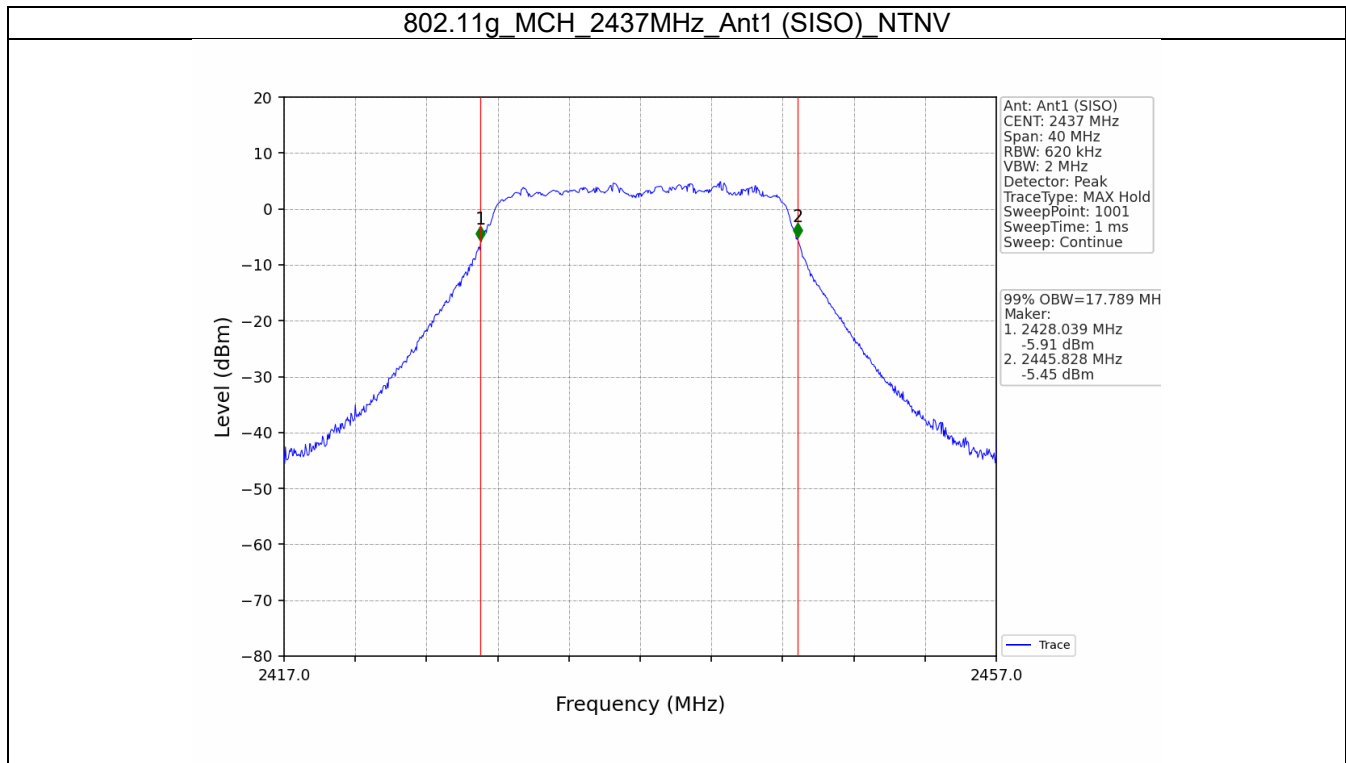
#### 2.1.1 Test Result

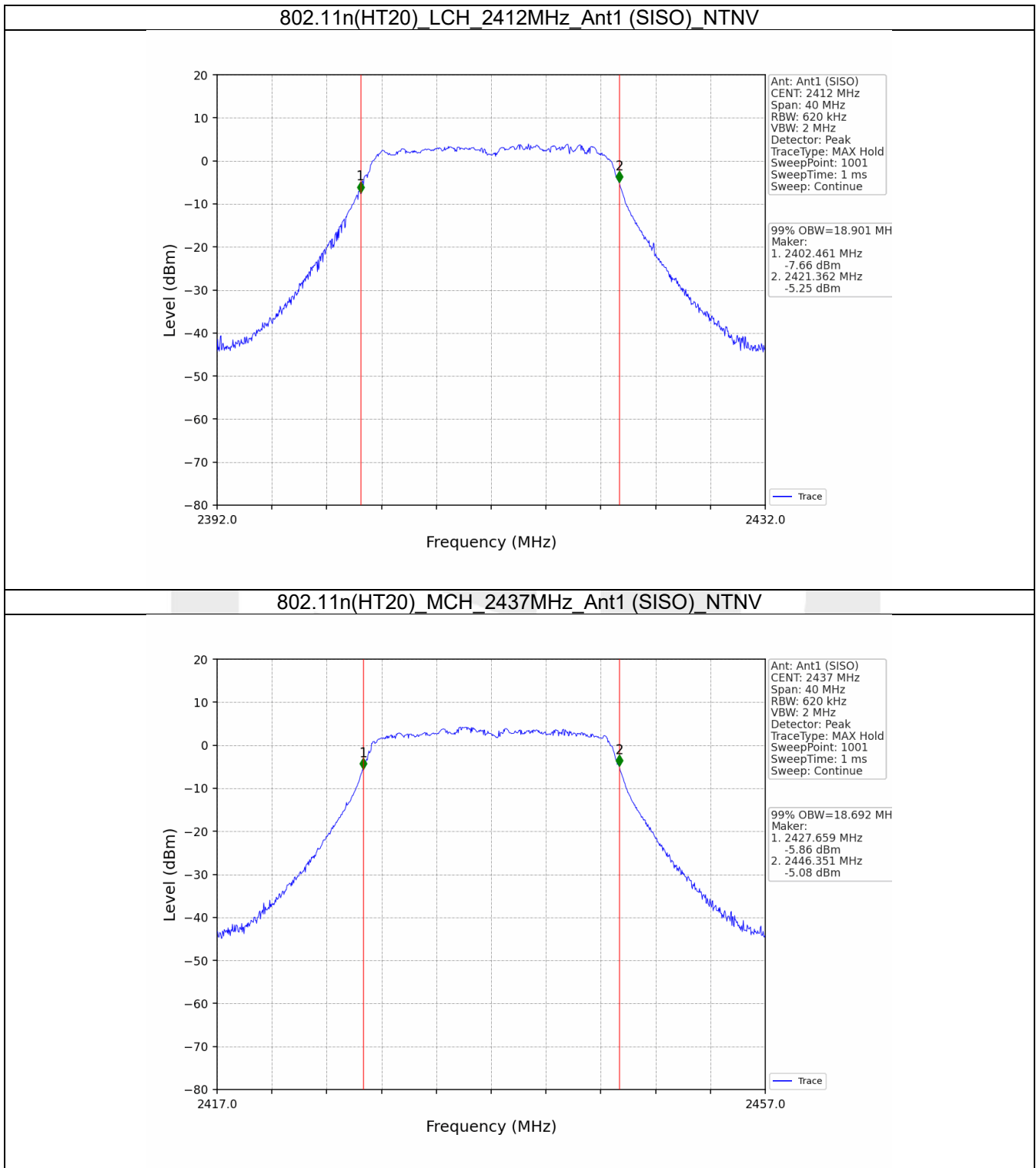
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.124	/	Pass
		2437	1	14.147	/	Pass
		2462	1	14.175	/	Pass
802.11g	SISO	2412	1	17.967	/	Pass
		2437	1	17.789	/	Pass
		2462	1	18.085	/	Pass
802.11n (HT20)	SISO	2412	1	18.901	/	Pass
		2437	1	18.692	/	Pass
		2462	1	18.742	/	Pass

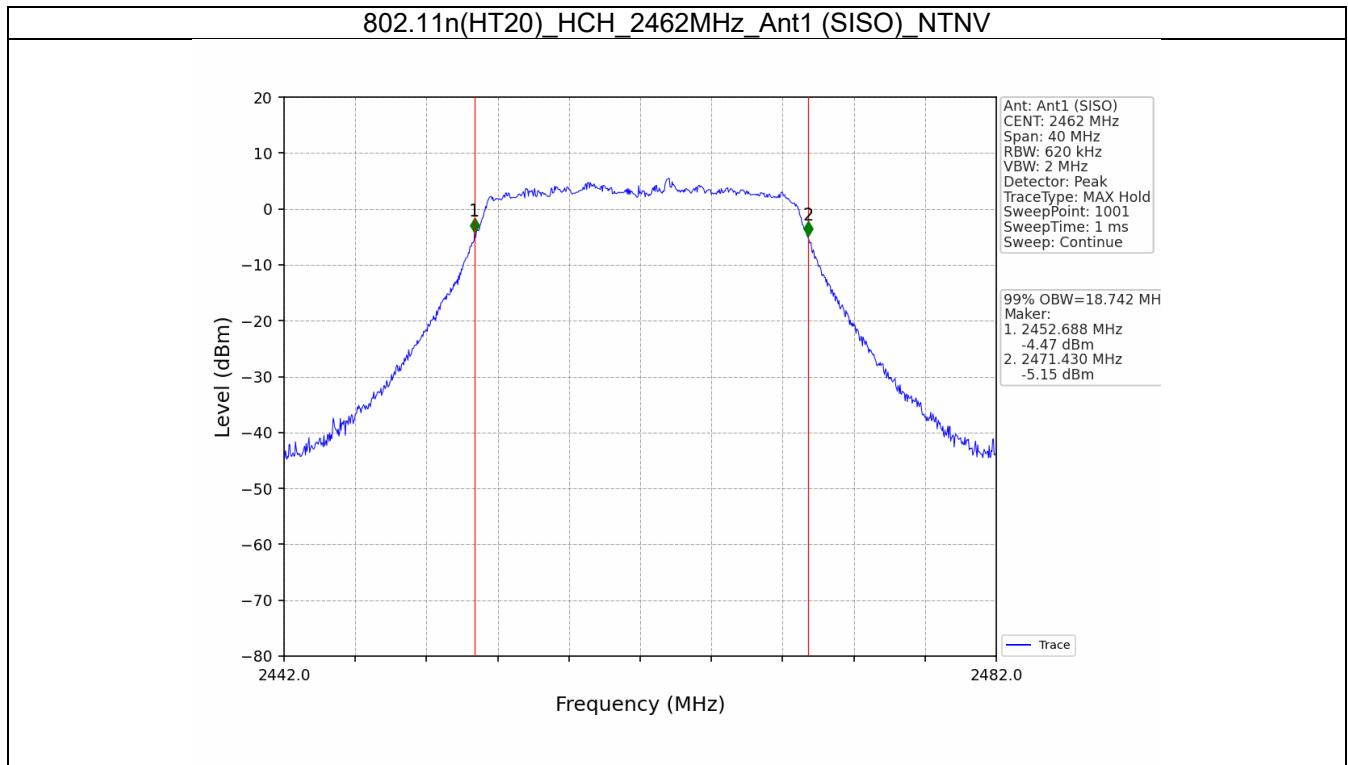
2.1.2 Test Graph









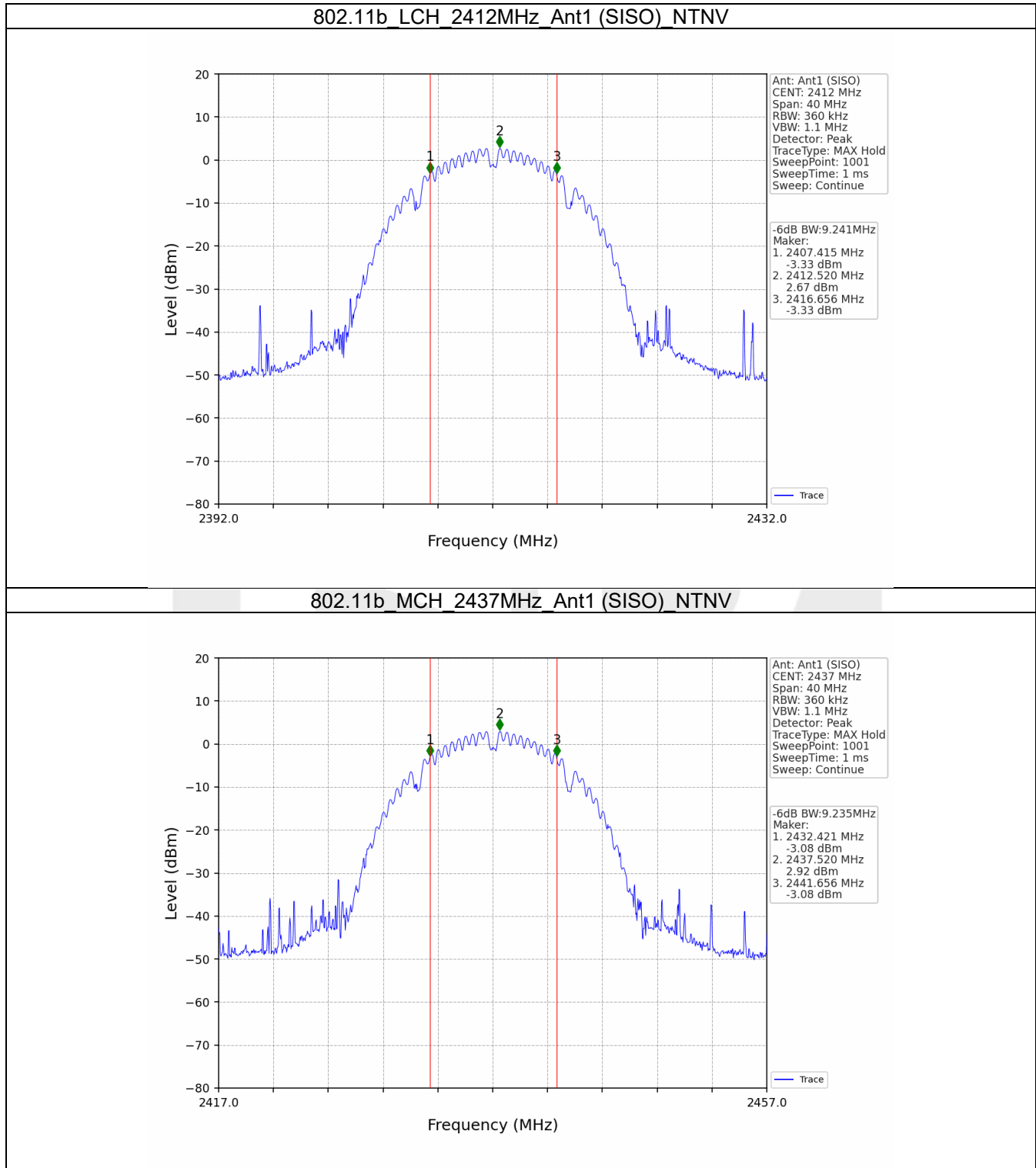


## 2.2 6dB BW

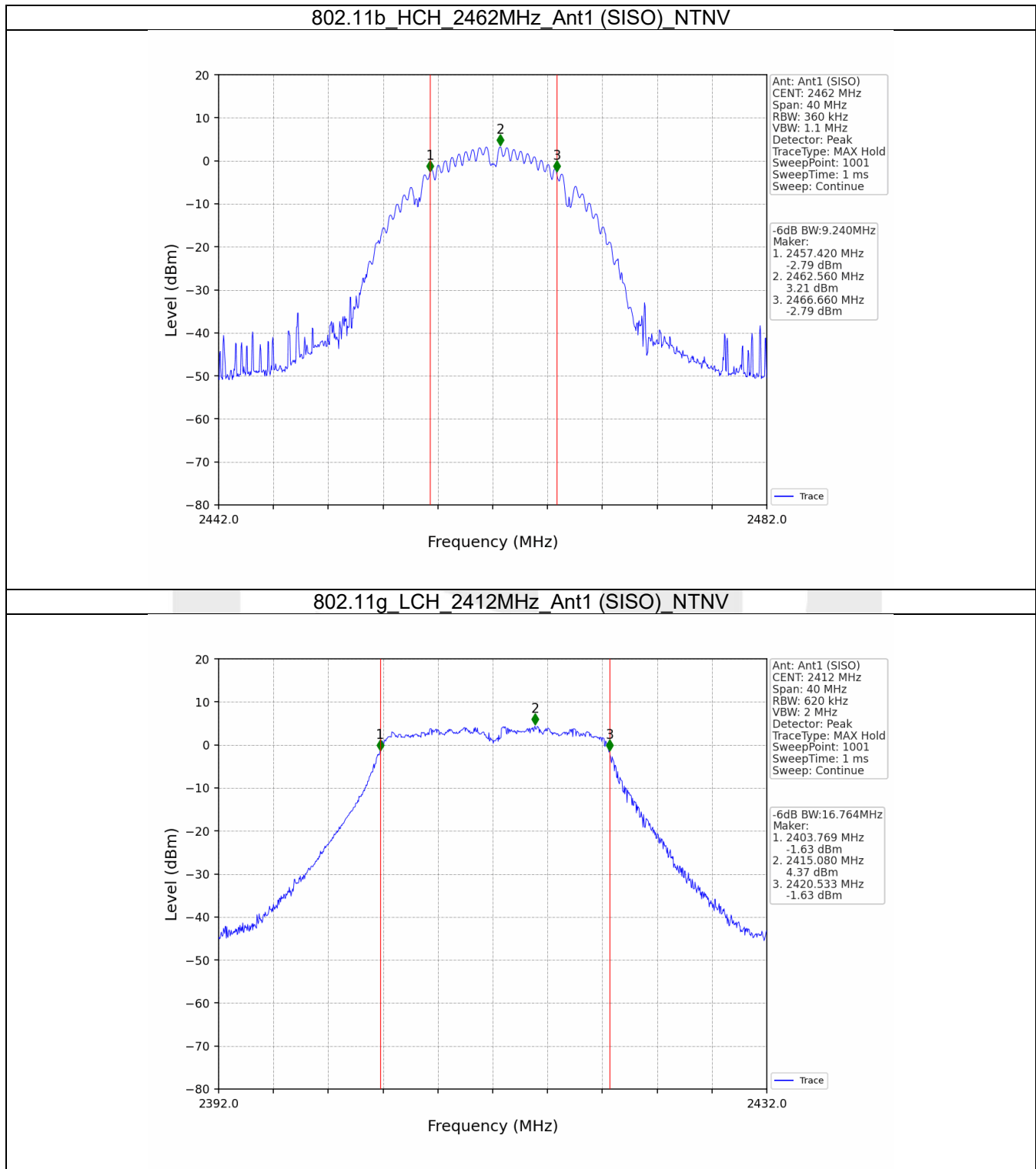
### 2.2.1 Test Result

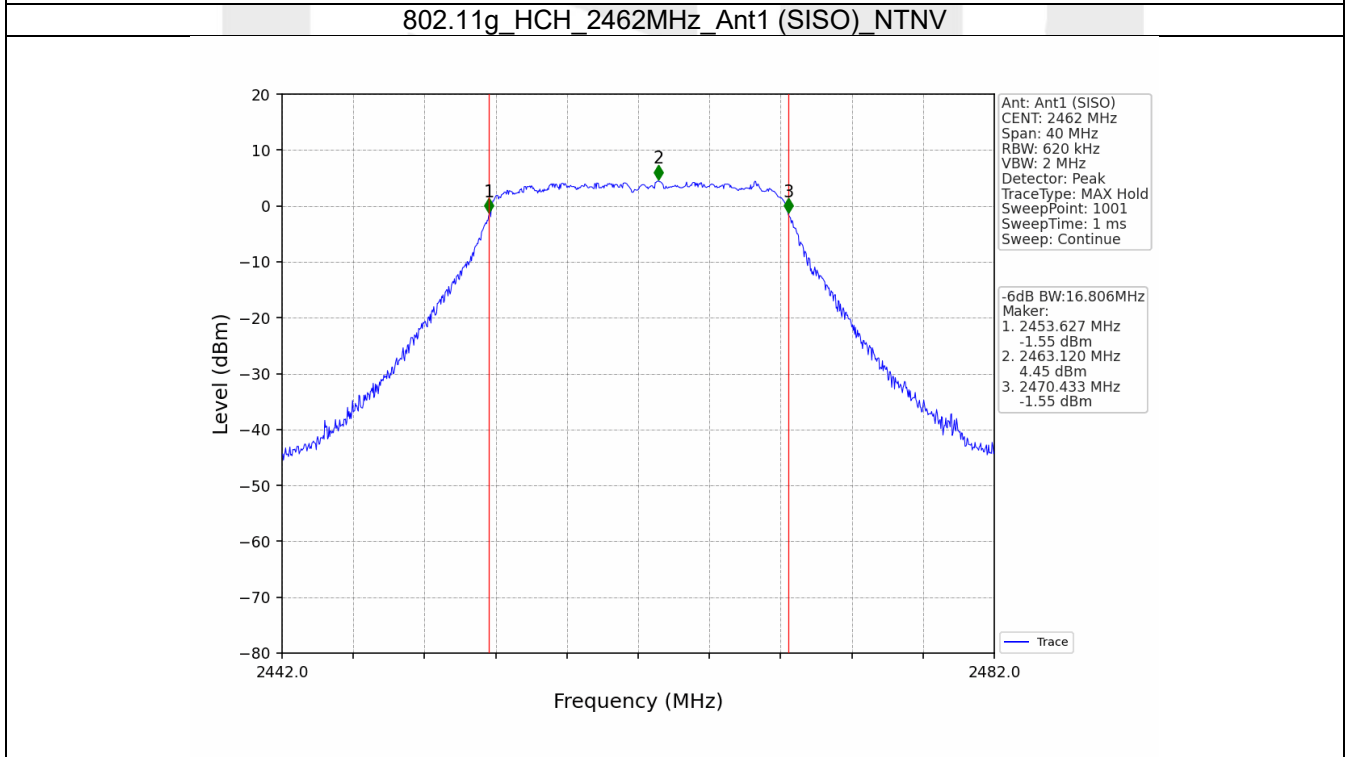
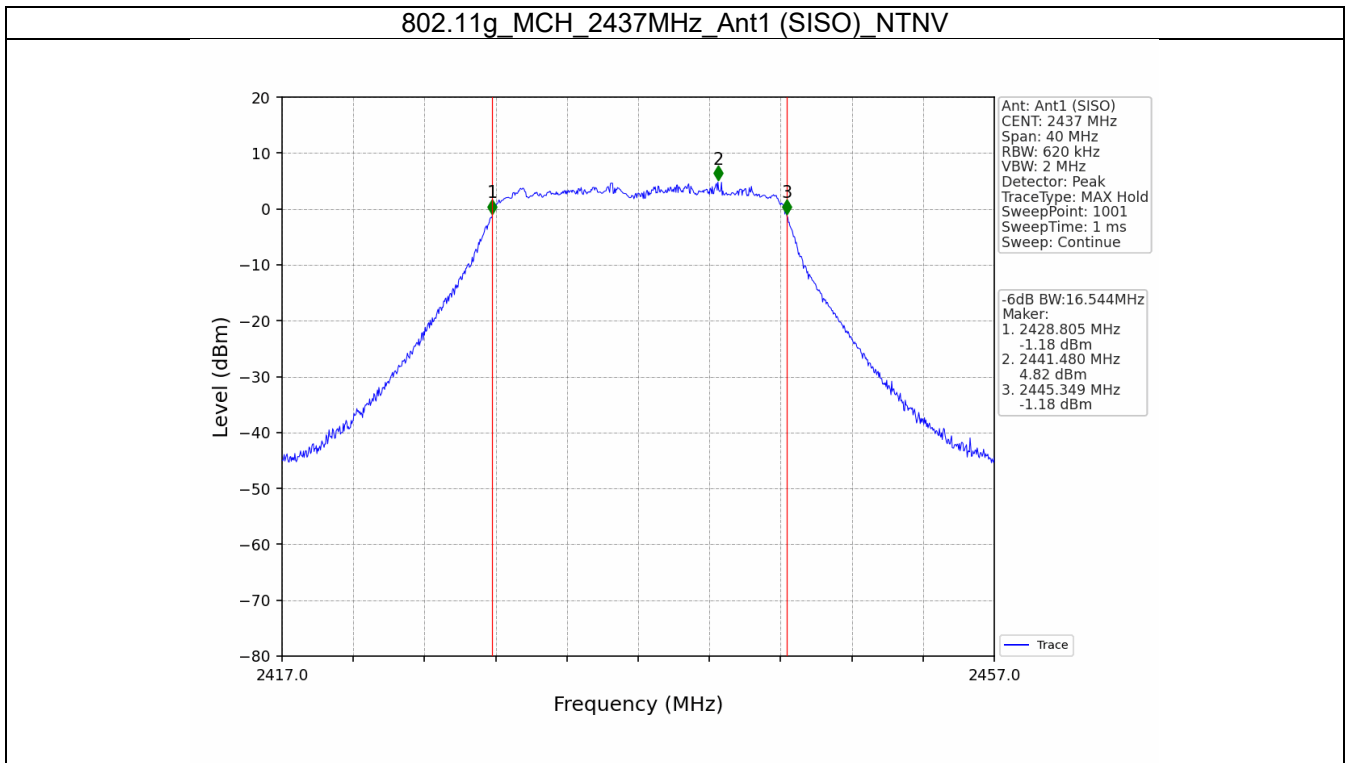
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.241	>=0.5	Pass
		2437	1	9.235	>=0.5	Pass
		2462	1	9.240	>=0.5	Pass
802.11g	SISO	2412	1	16.764	>=0.5	Pass
		2437	1	16.544	>=0.5	Pass
		2462	1	16.806	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.882	>=0.5	Pass
		2437	1	17.905	>=0.5	Pass
		2462	1	17.683	>=0.5	Pass

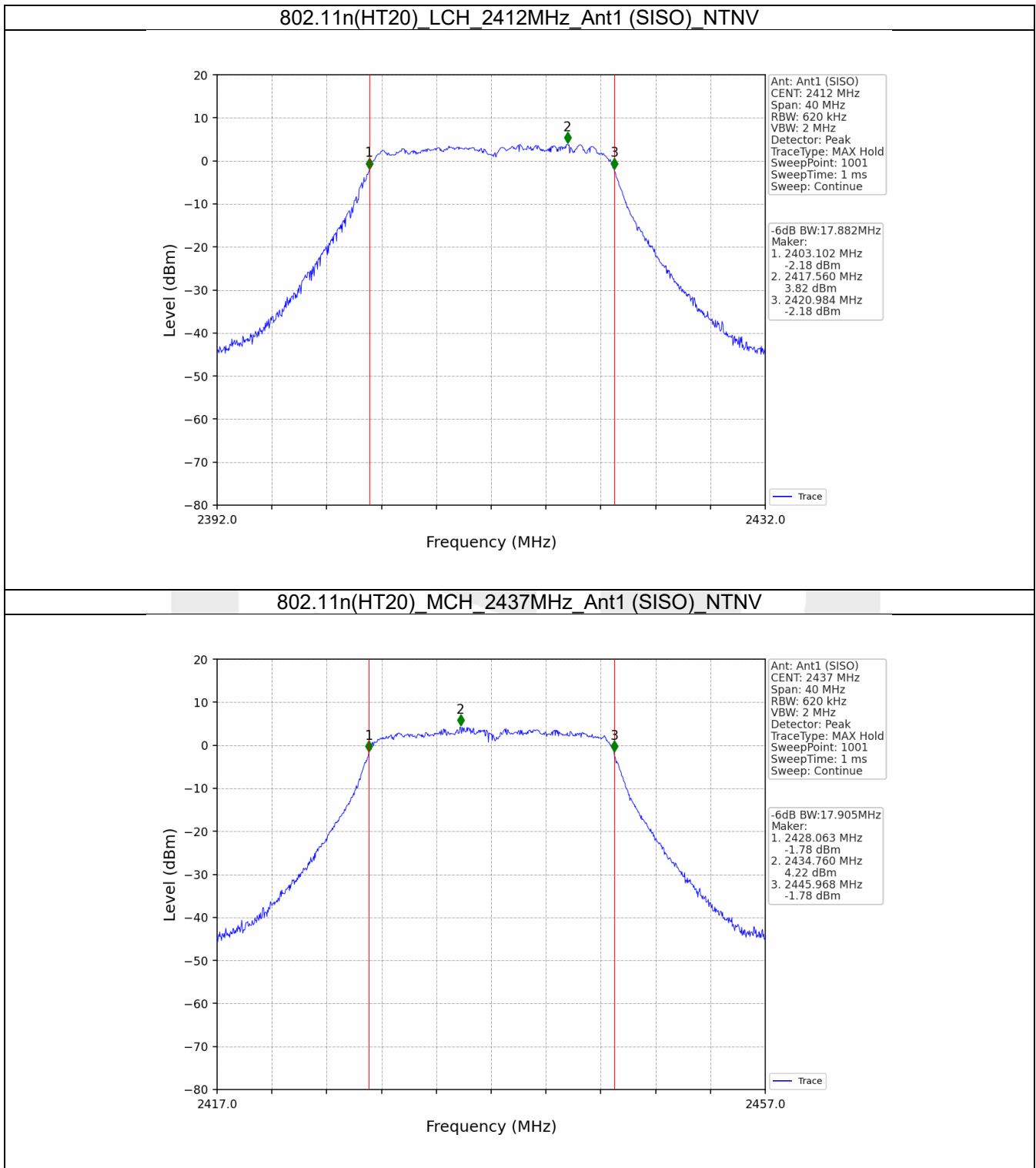
2.2.2 Test Graph

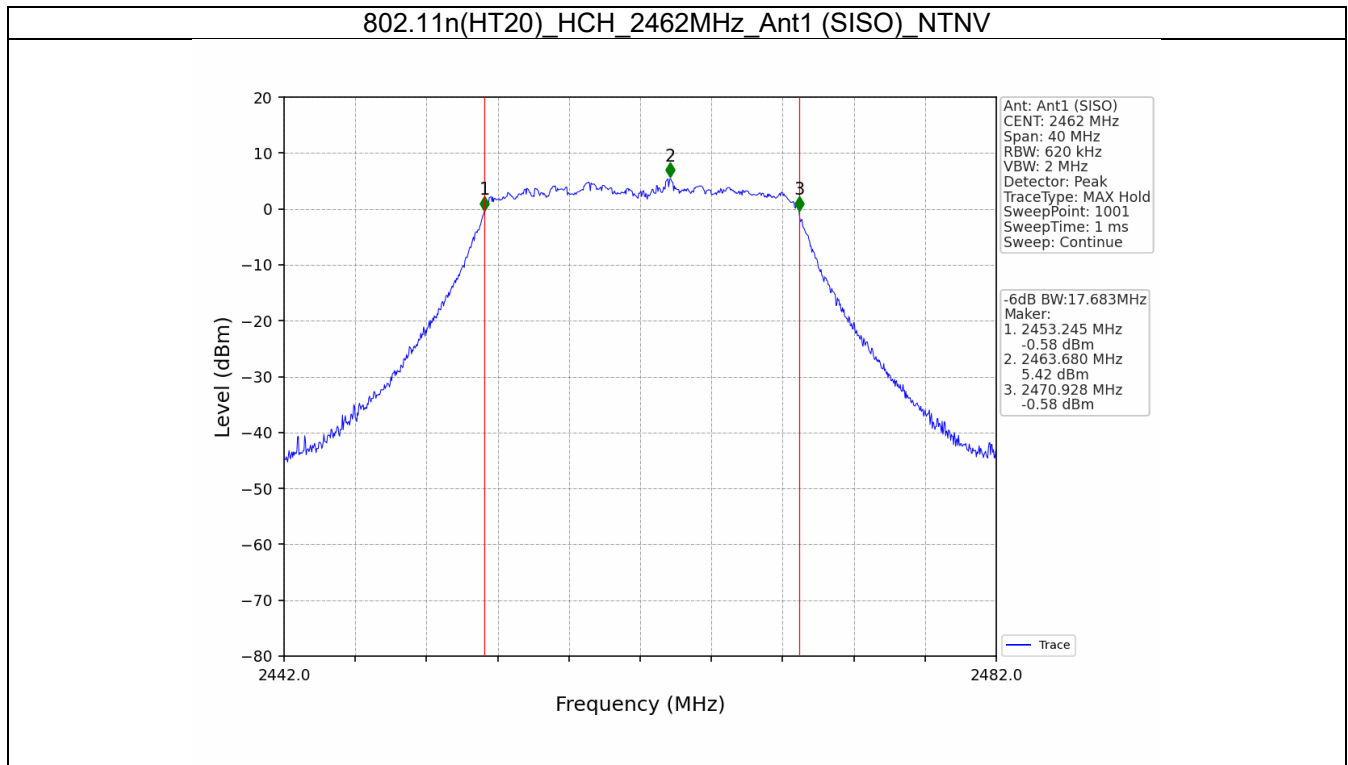












### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	13.48	<=30	Pass
		2437	13.69	<=30	Pass
		2462	13.99	<=30	Pass
802.11g	SISO	2412	17.57	<=30	Pass
		2437	17.75	<=30	Pass
		2462	18.12	<=30	Pass
802.11n (HT20)	SISO	2412	17.54	<=30	Pass
		2437	17.80	<=30	Pass
		2462	18.05	<=30	Pass

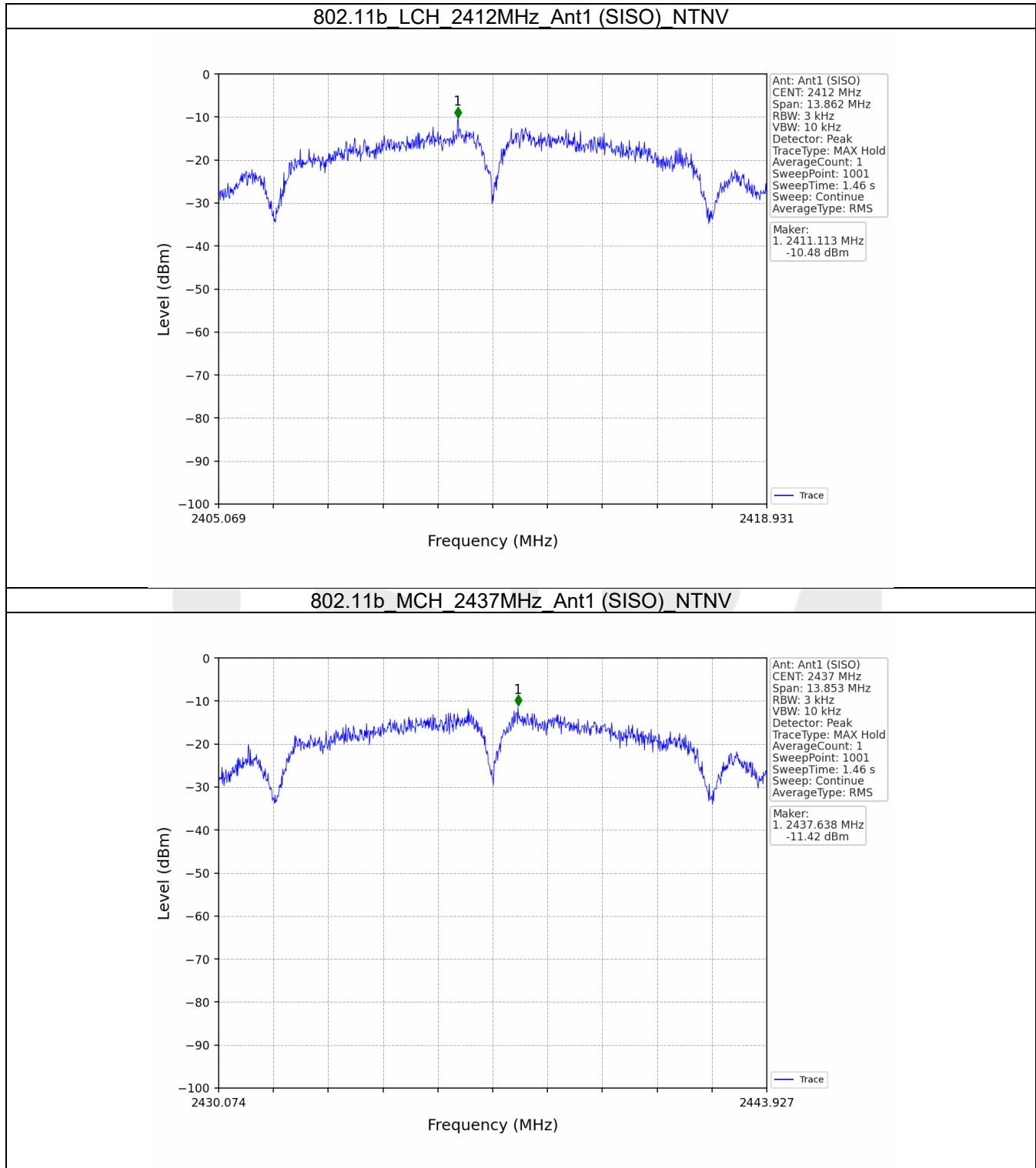
#### 4. Maximum Power Spectral Density

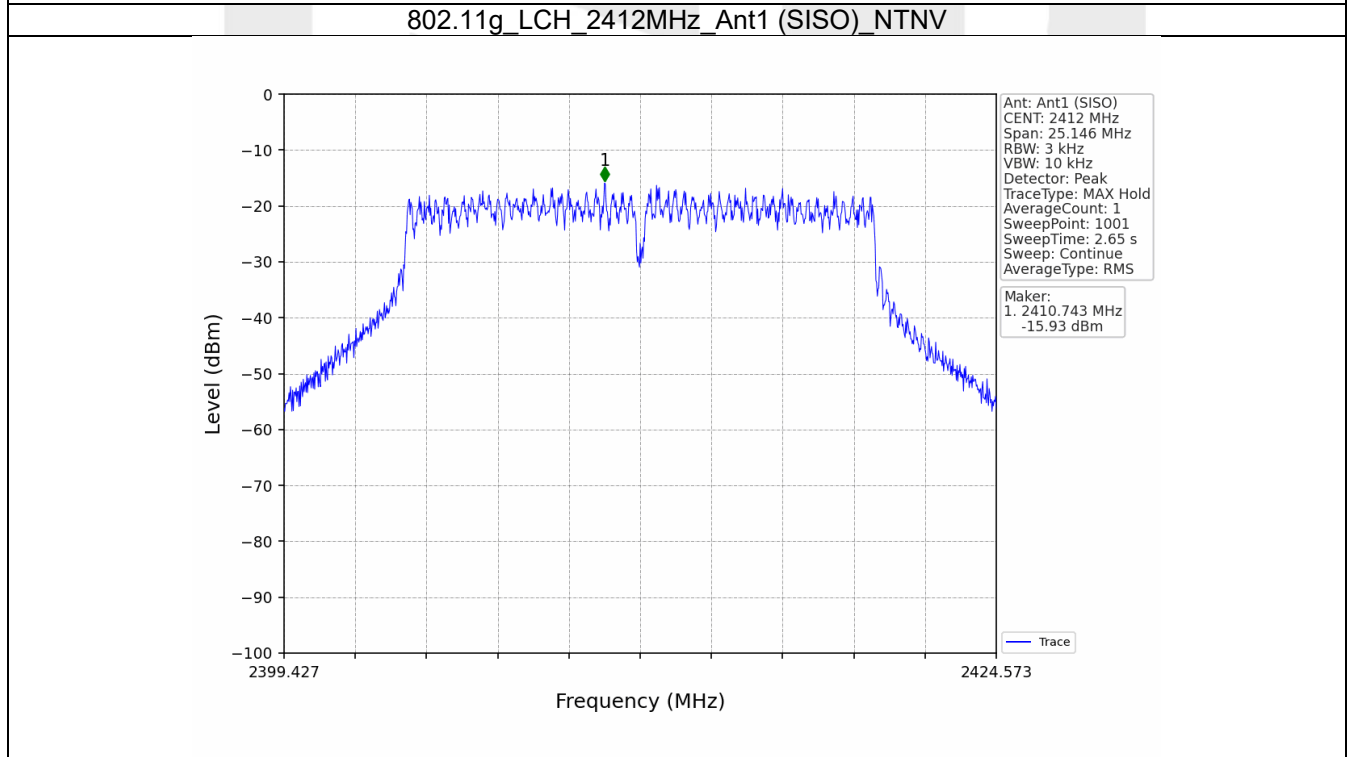
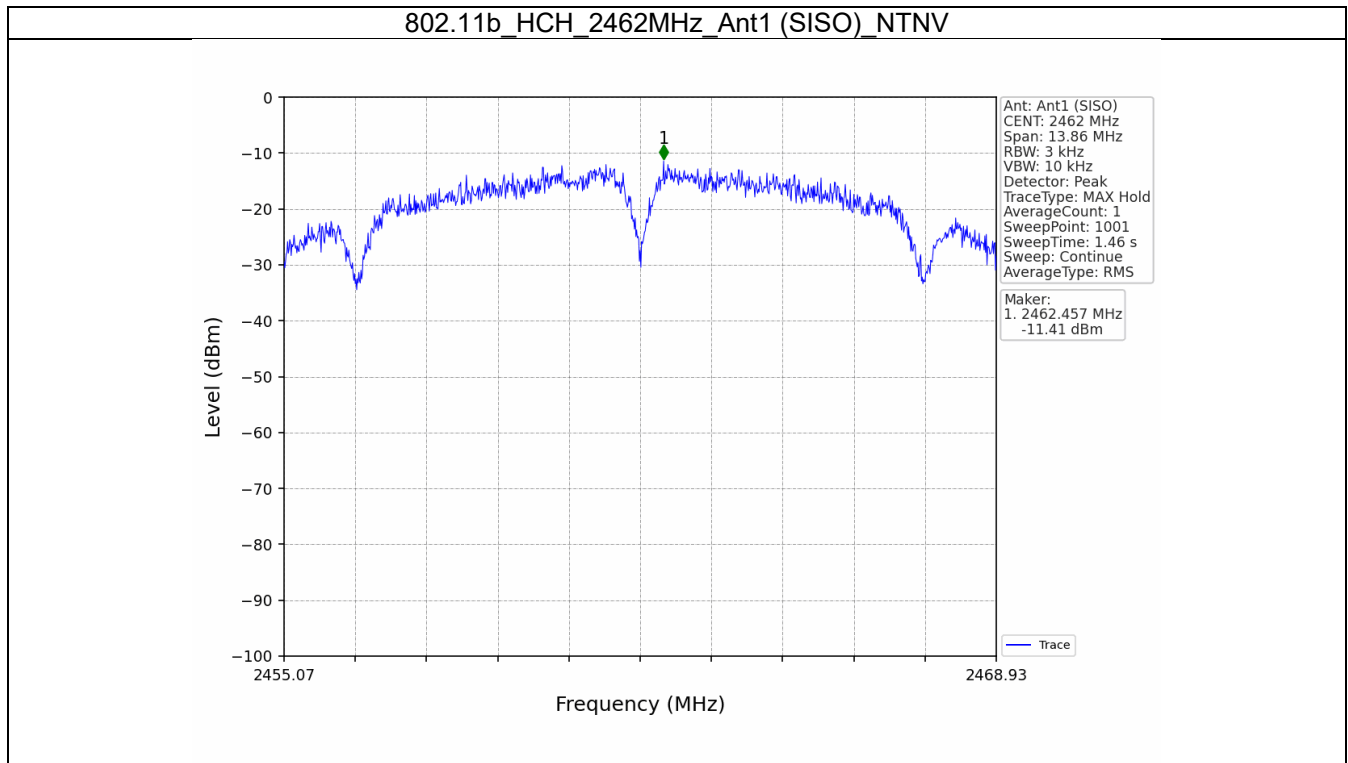
##### 4.1 PSD

##### 4.1.1 Test Result

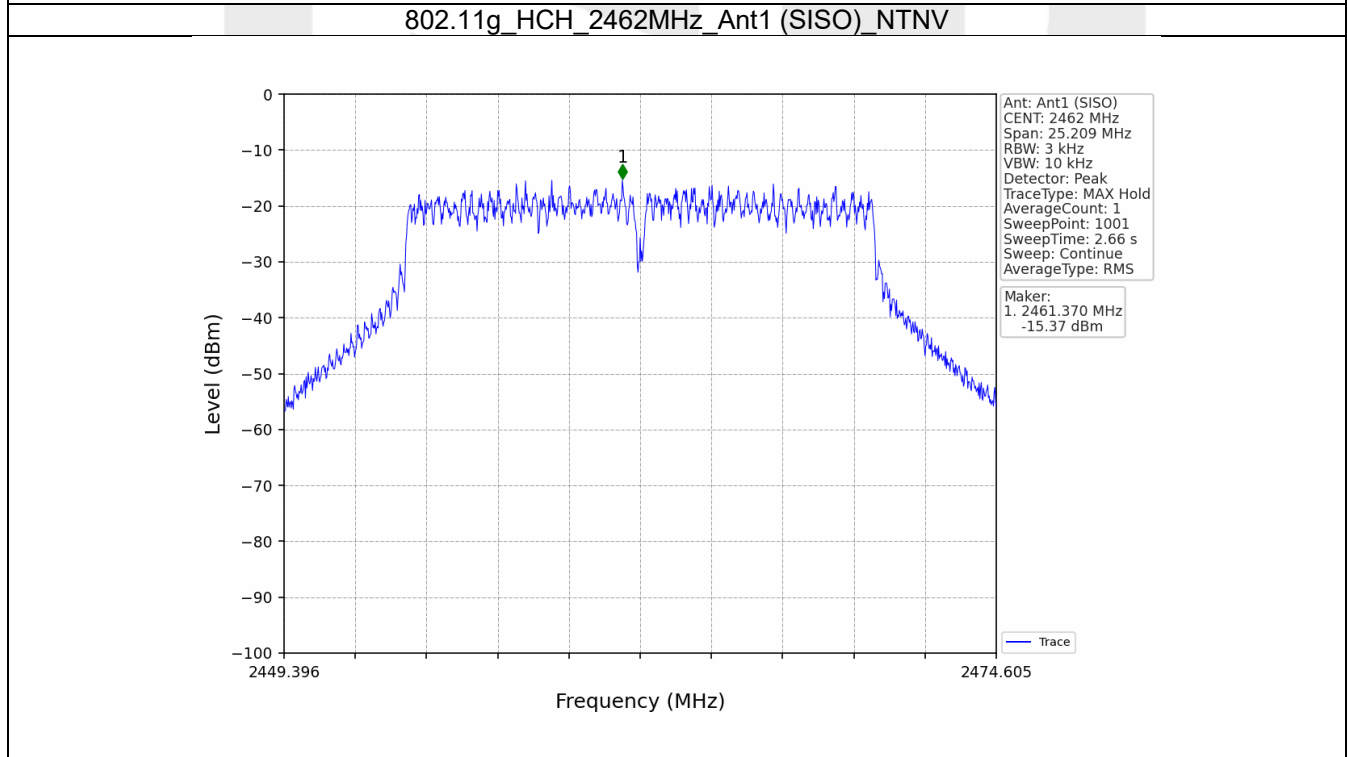
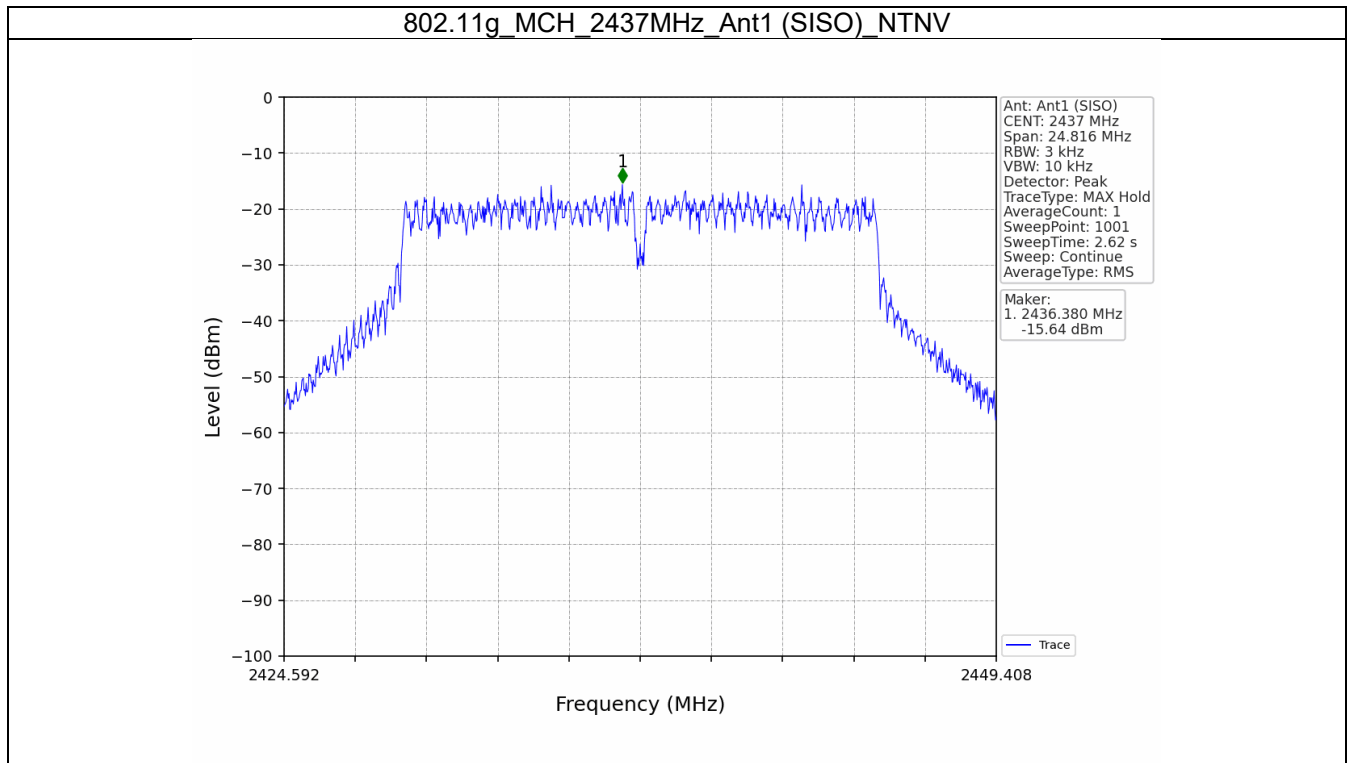
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-10.48	<=8	Pass
		2437	-11.42	<=8	Pass
		2462	-11.41	<=8	Pass
802.11g	SISO	2412	-15.93	<=8	Pass
		2437	-15.64	<=8	Pass
		2462	-15.37	<=8	Pass
802.11n (HT20)	SISO	2412	-16.66	<=8	Pass
		2437	-15.56	<=8	Pass
		2462	-15.48	<=8	Pass

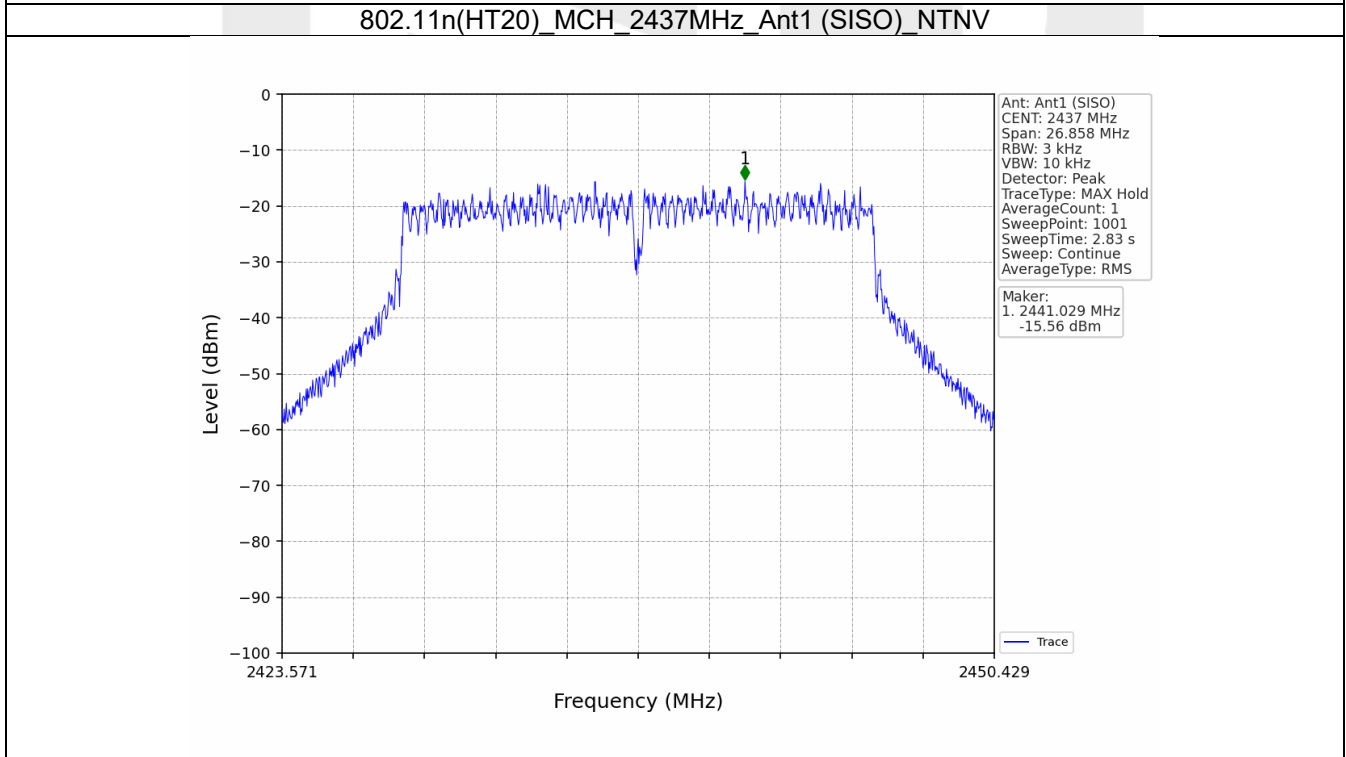
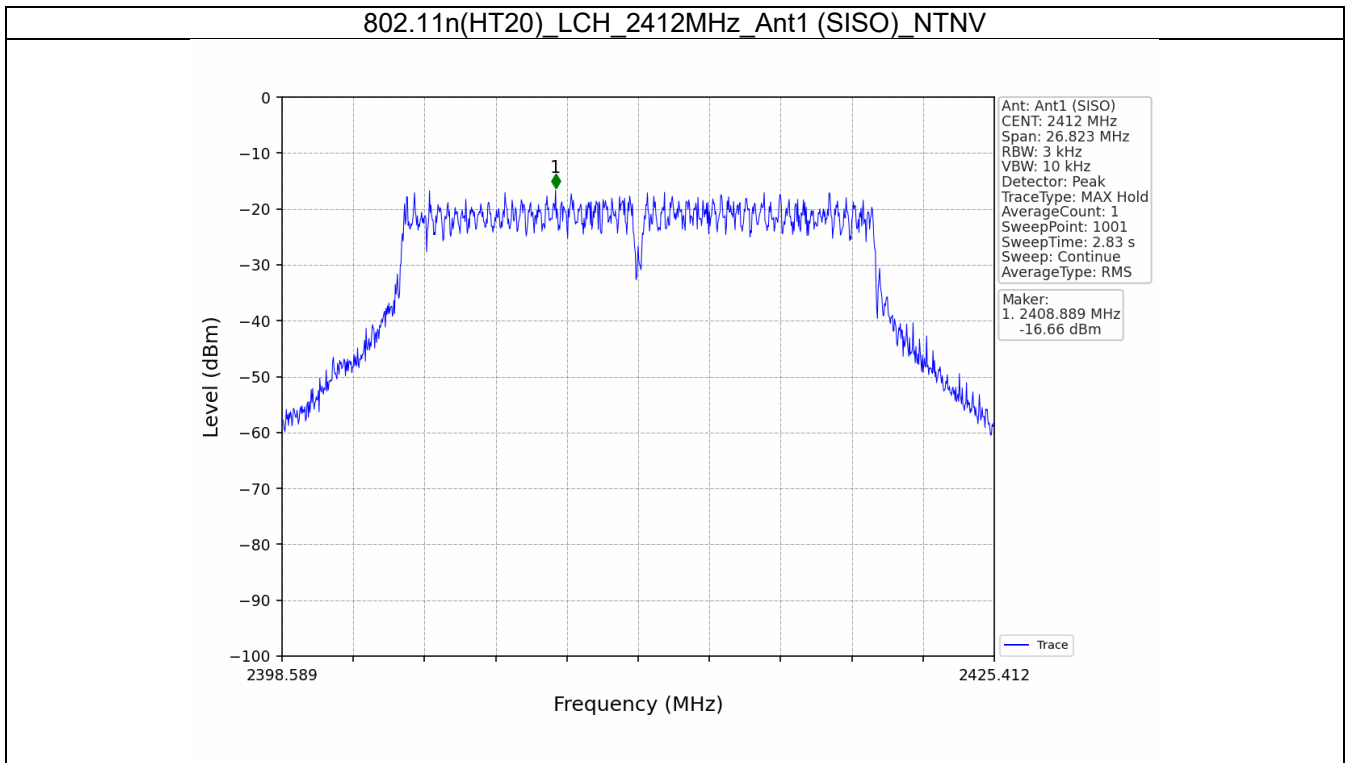
4.1.2 Test Graph

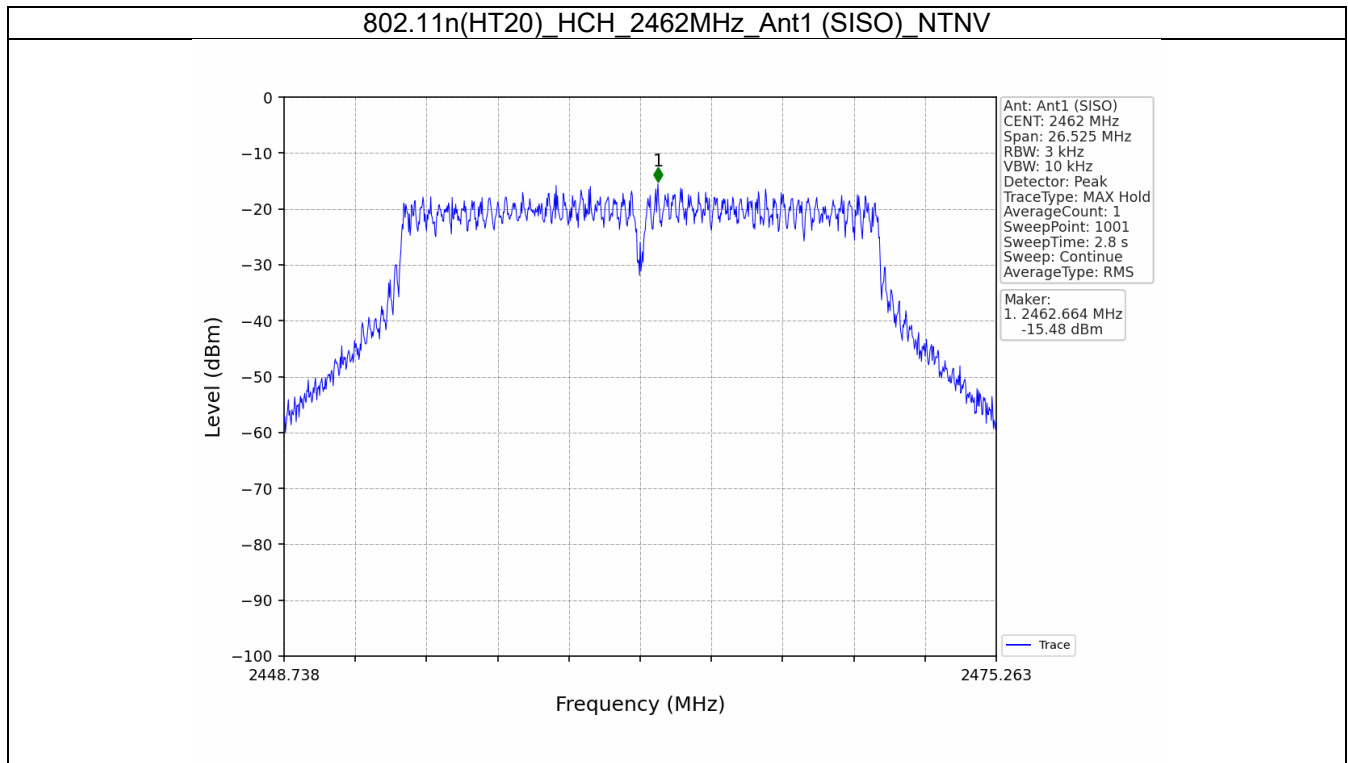












## 5. Unwanted Emissions In Non-restricted Frequency Bands

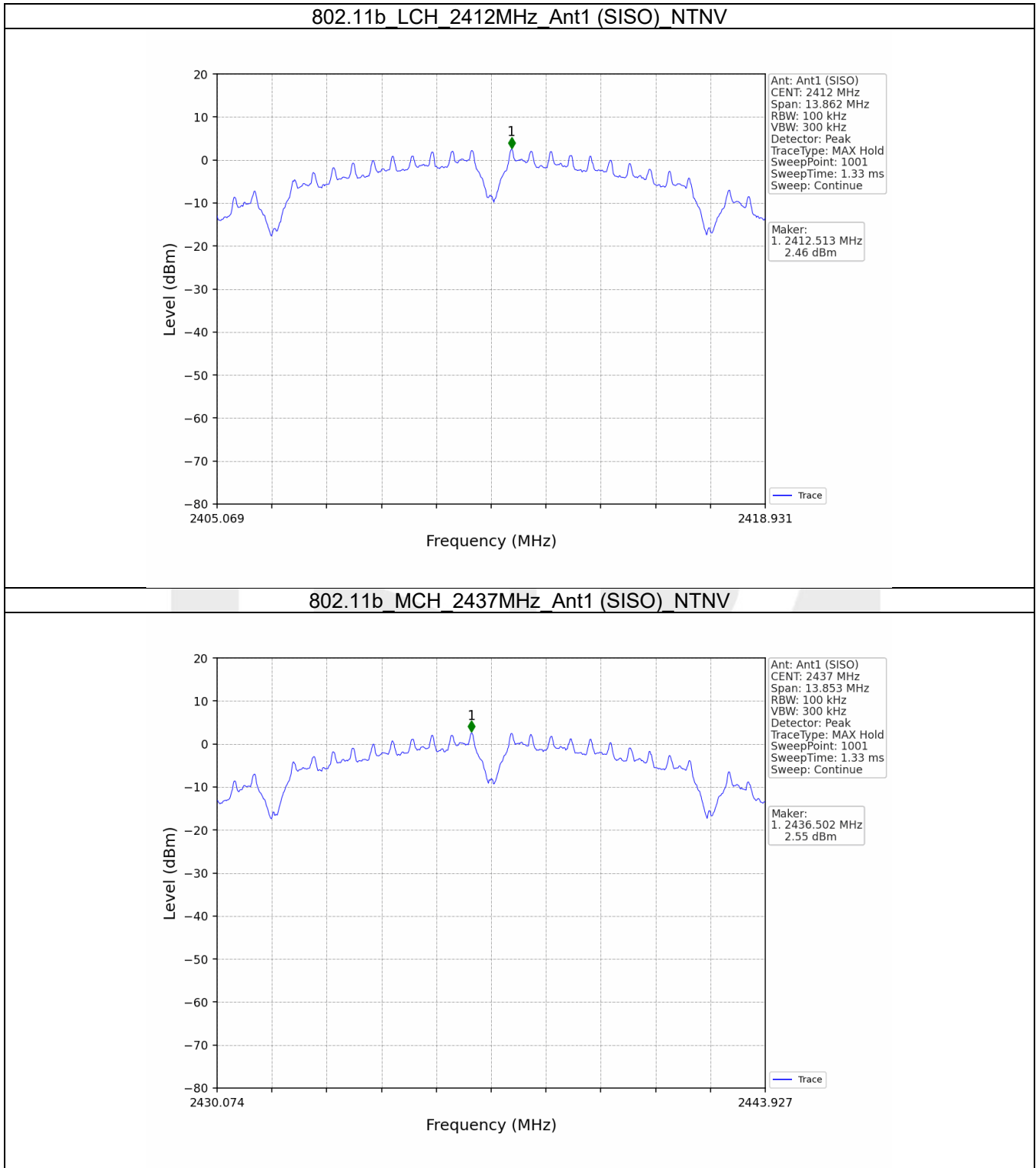
### 5.1 Ref

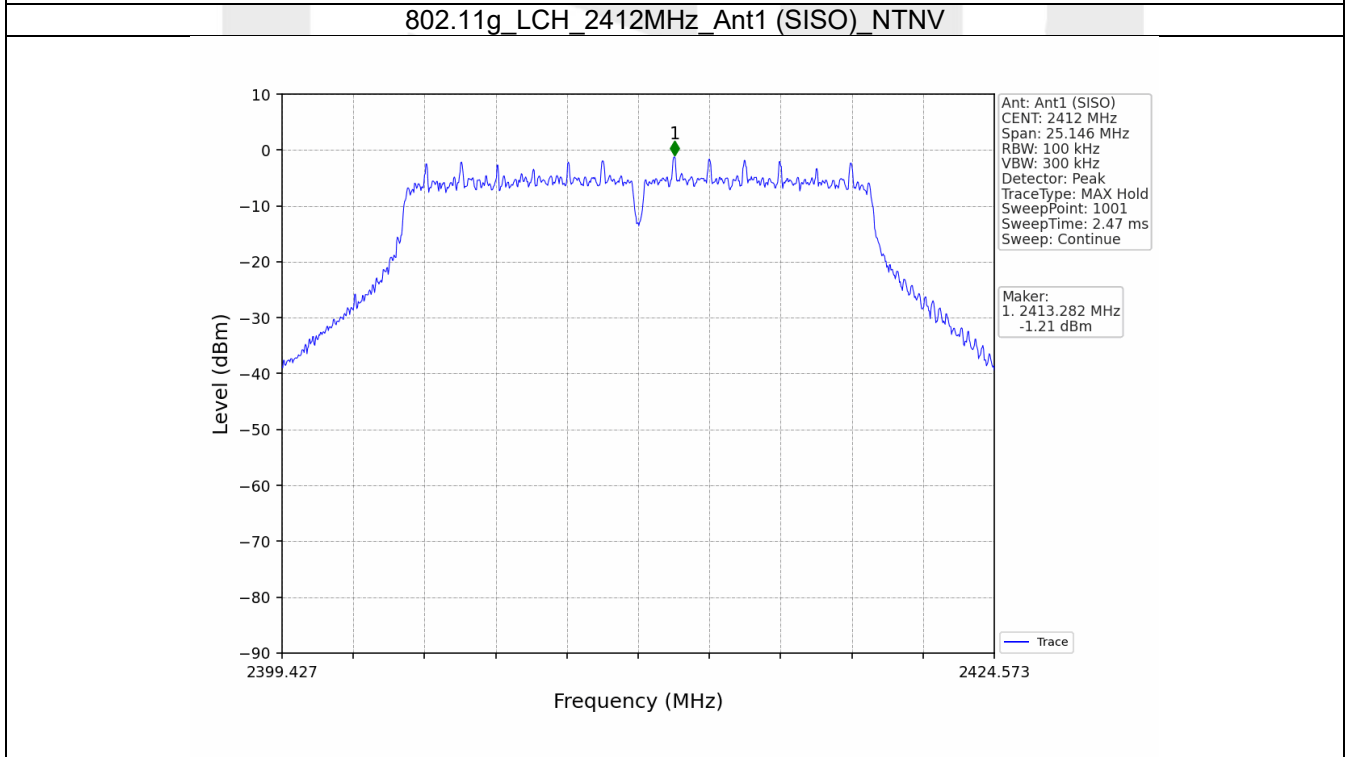
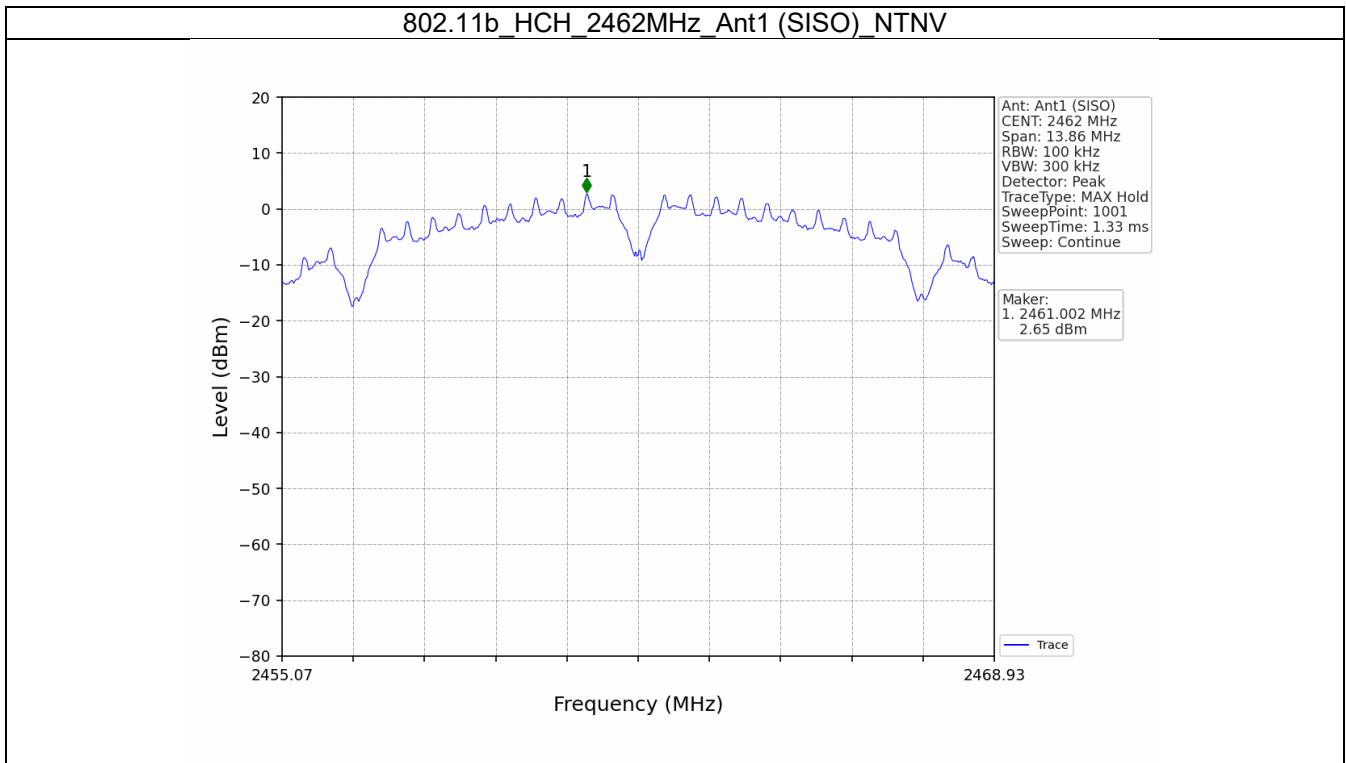
#### 5.1.1 Test Result

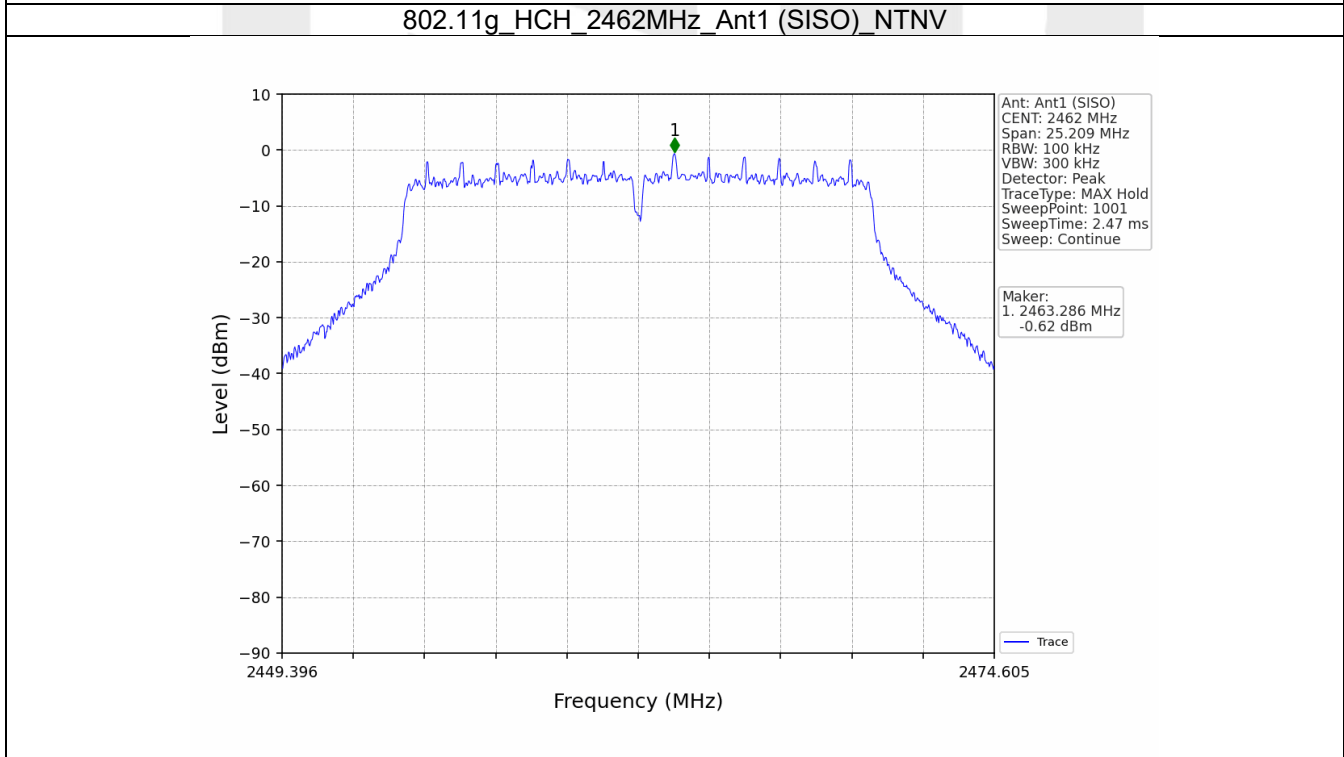
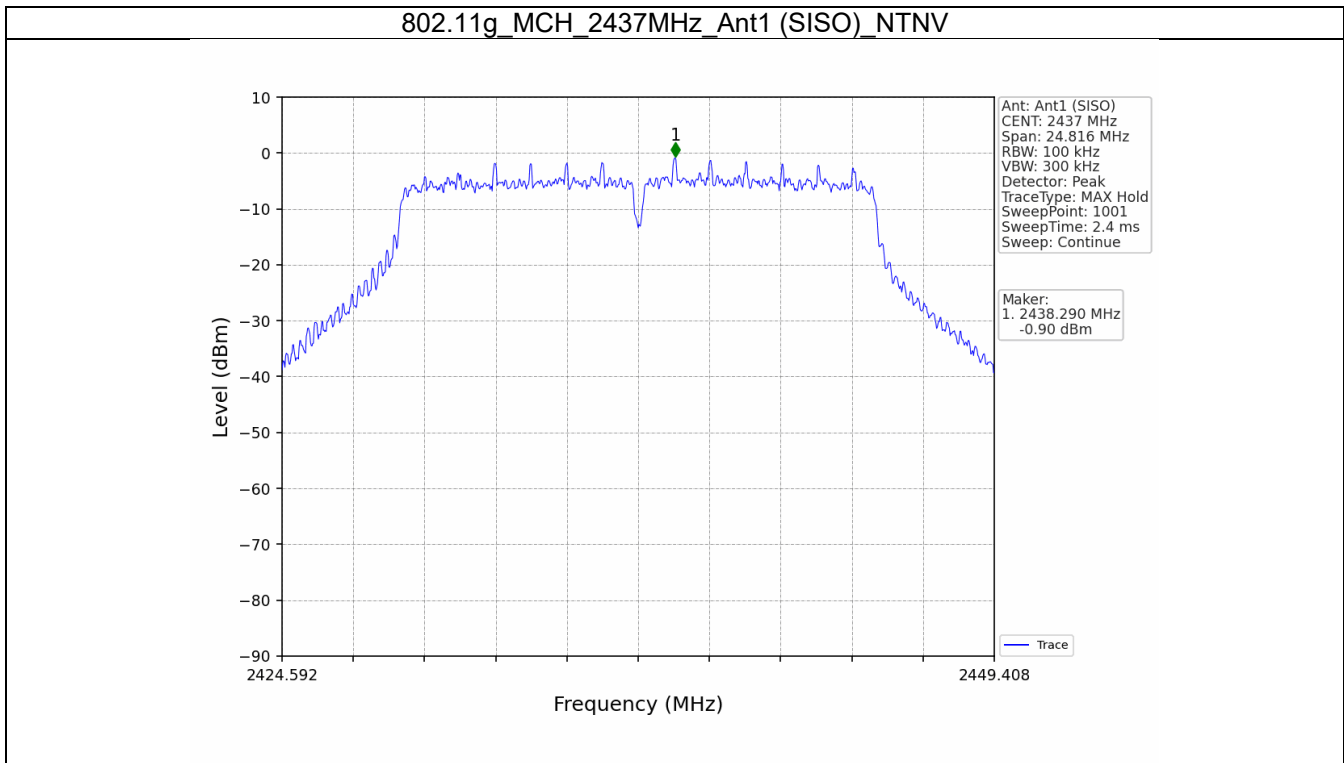
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	2.46
		2437	1	2.55
		2462	1	2.65
802.11g	SISO	2412	1	-1.21
		2437	1	-0.90
		2462	1	-0.62
802.11n (HT20)	SISO	2412	1	-1.73
		2437	1	-1.43
		2462	1	-1.06

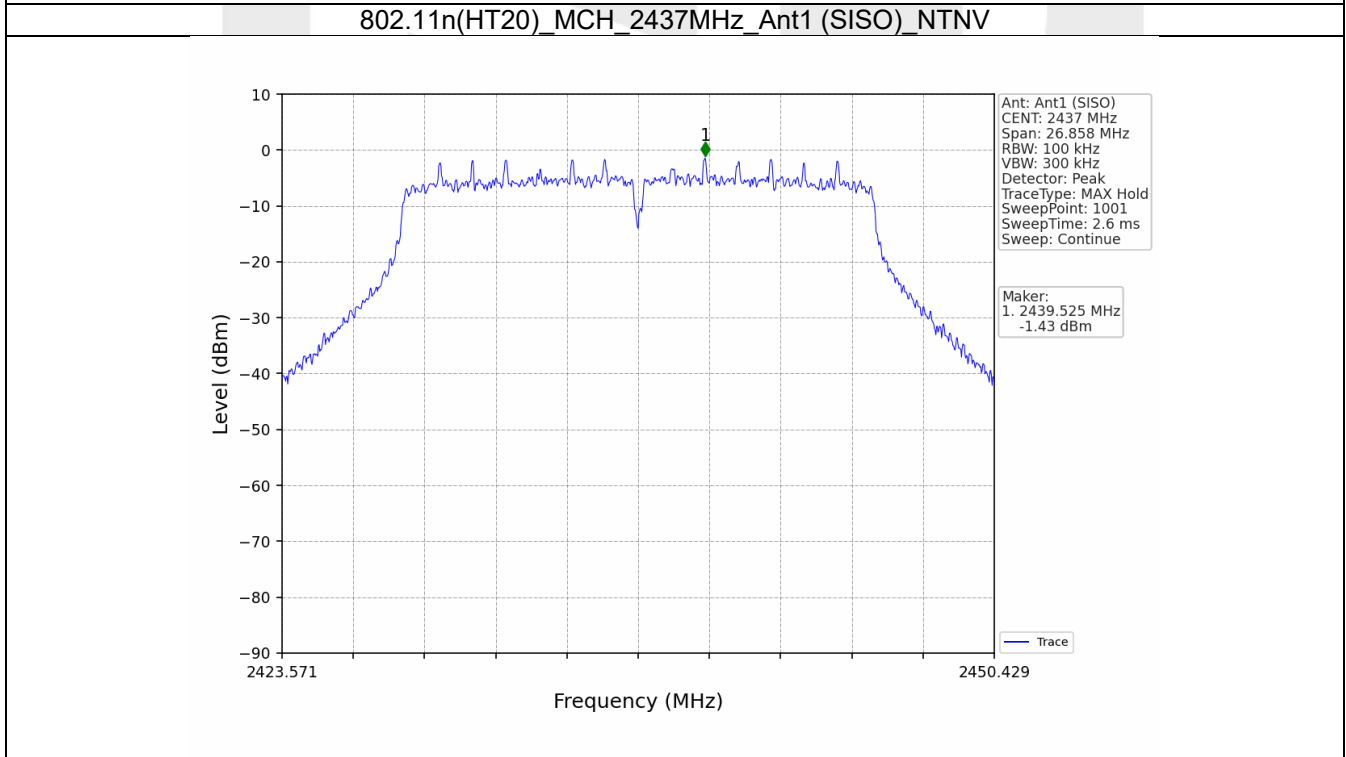
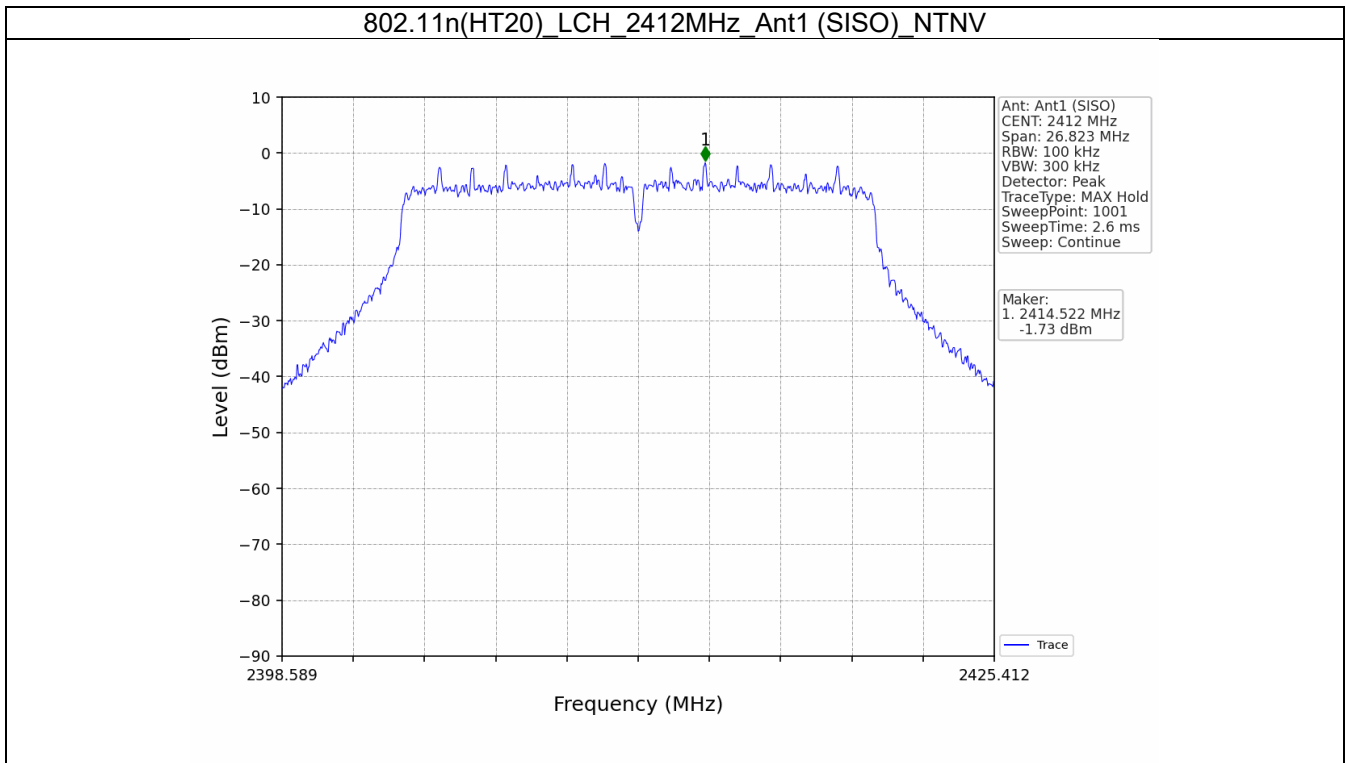
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph

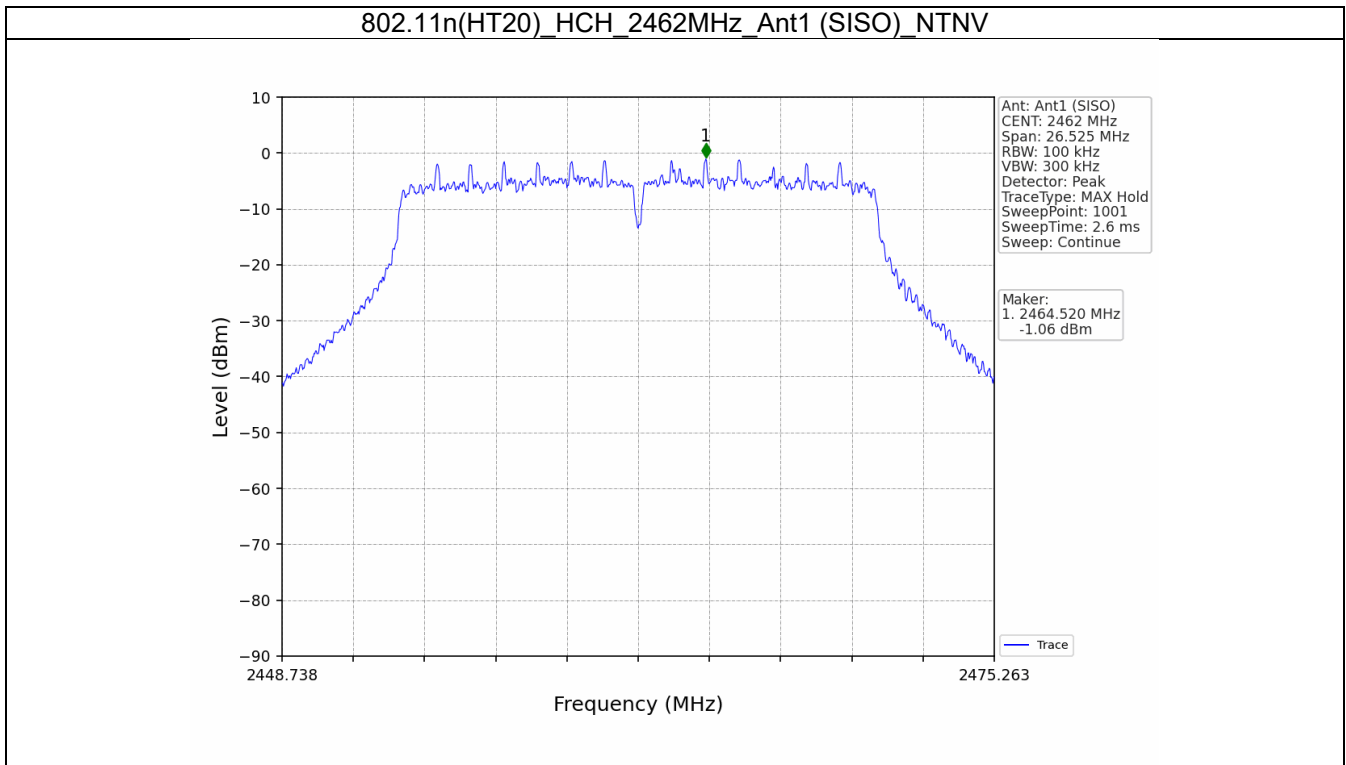












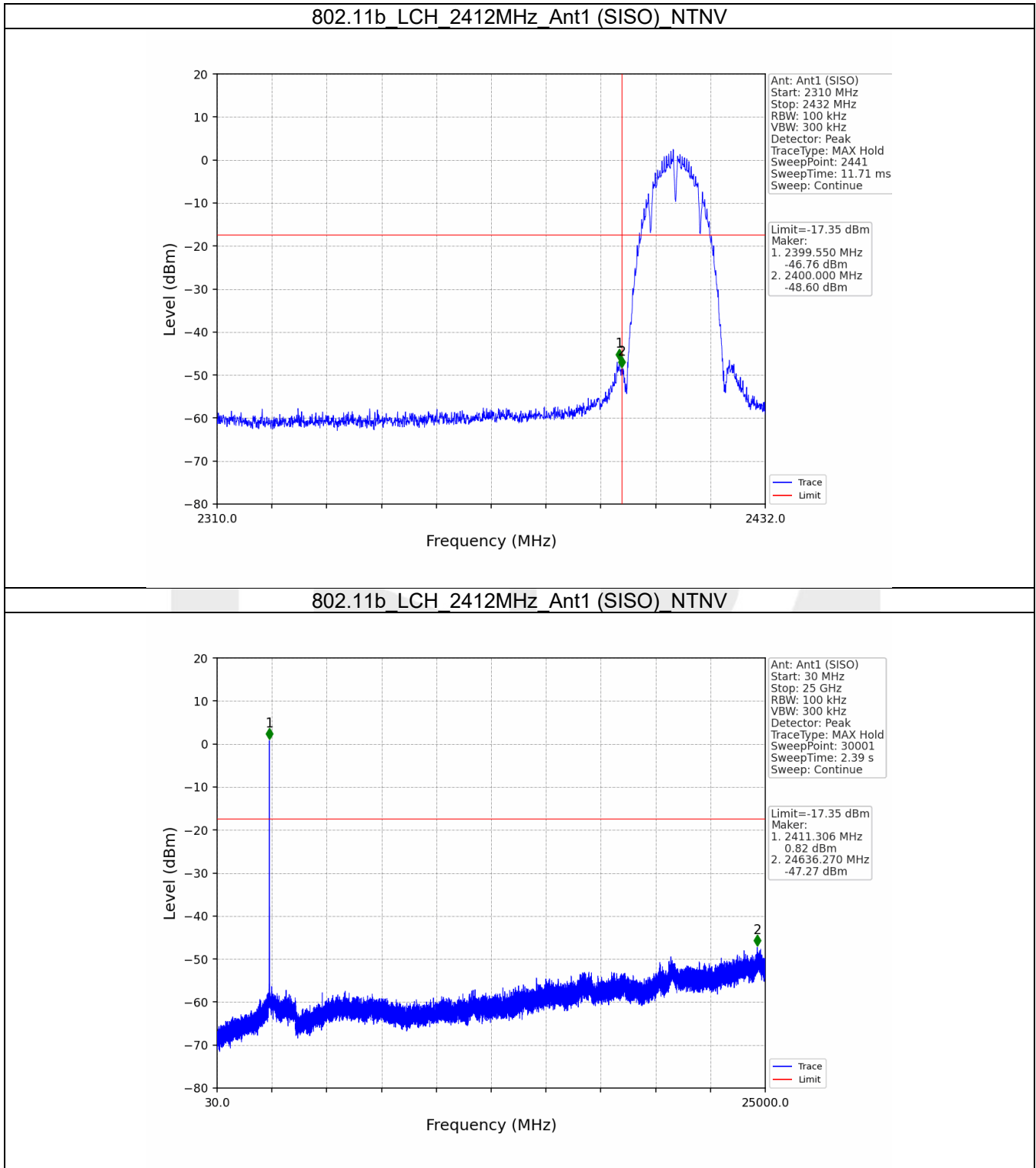
## 5.2 CSE

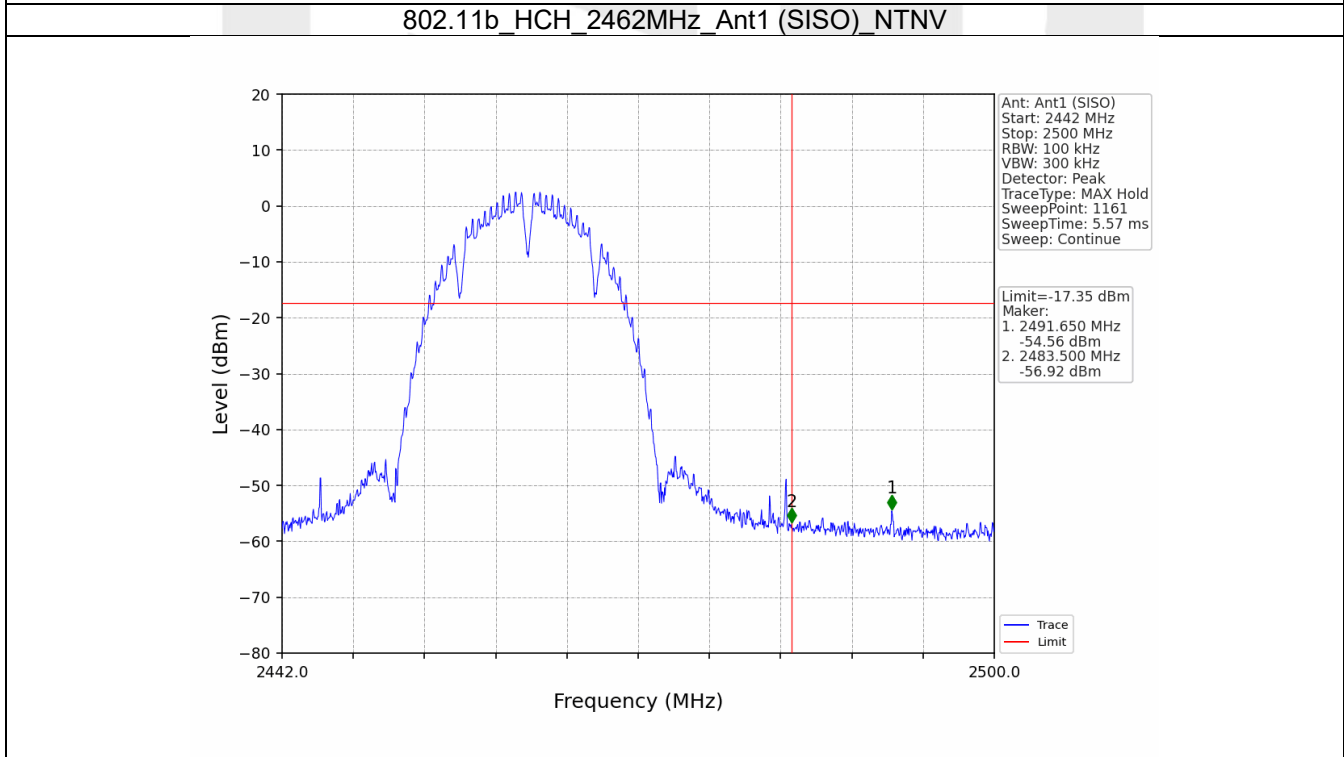
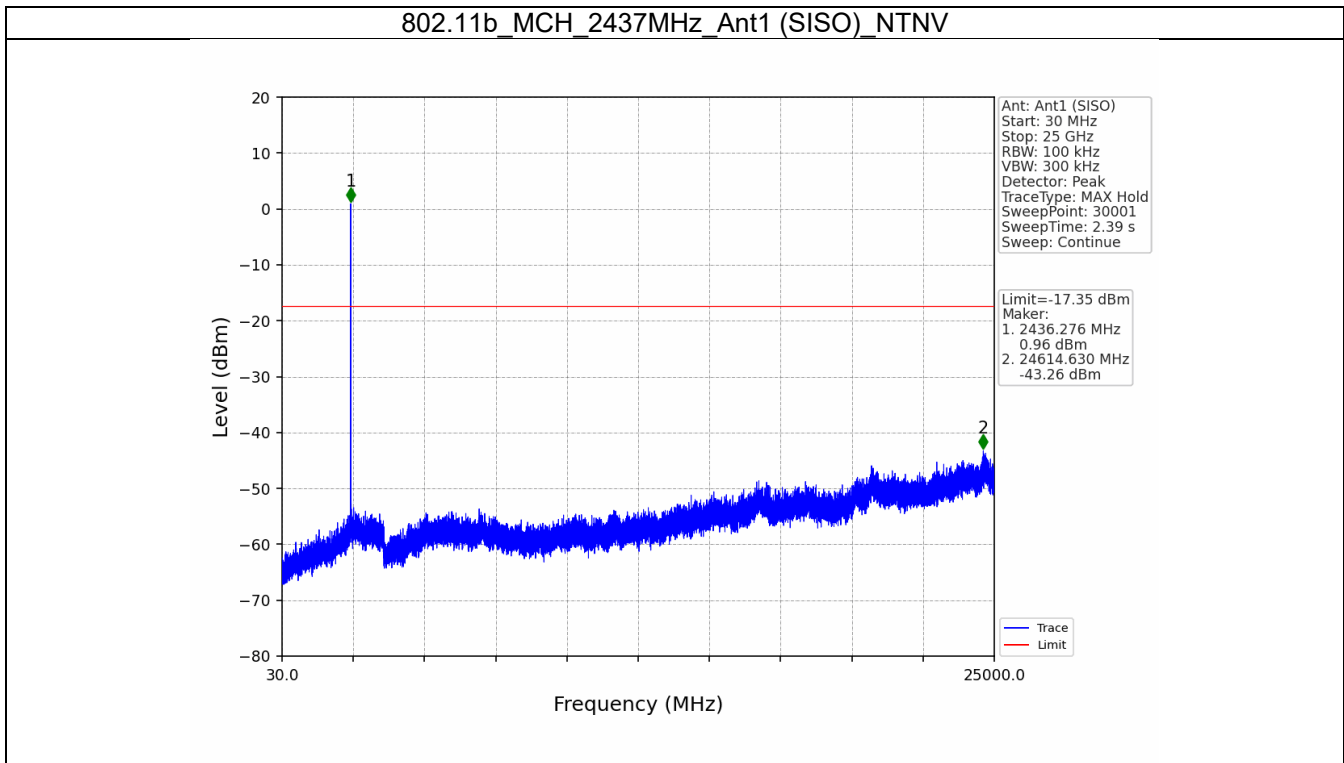
### 5.2.1 Test Result

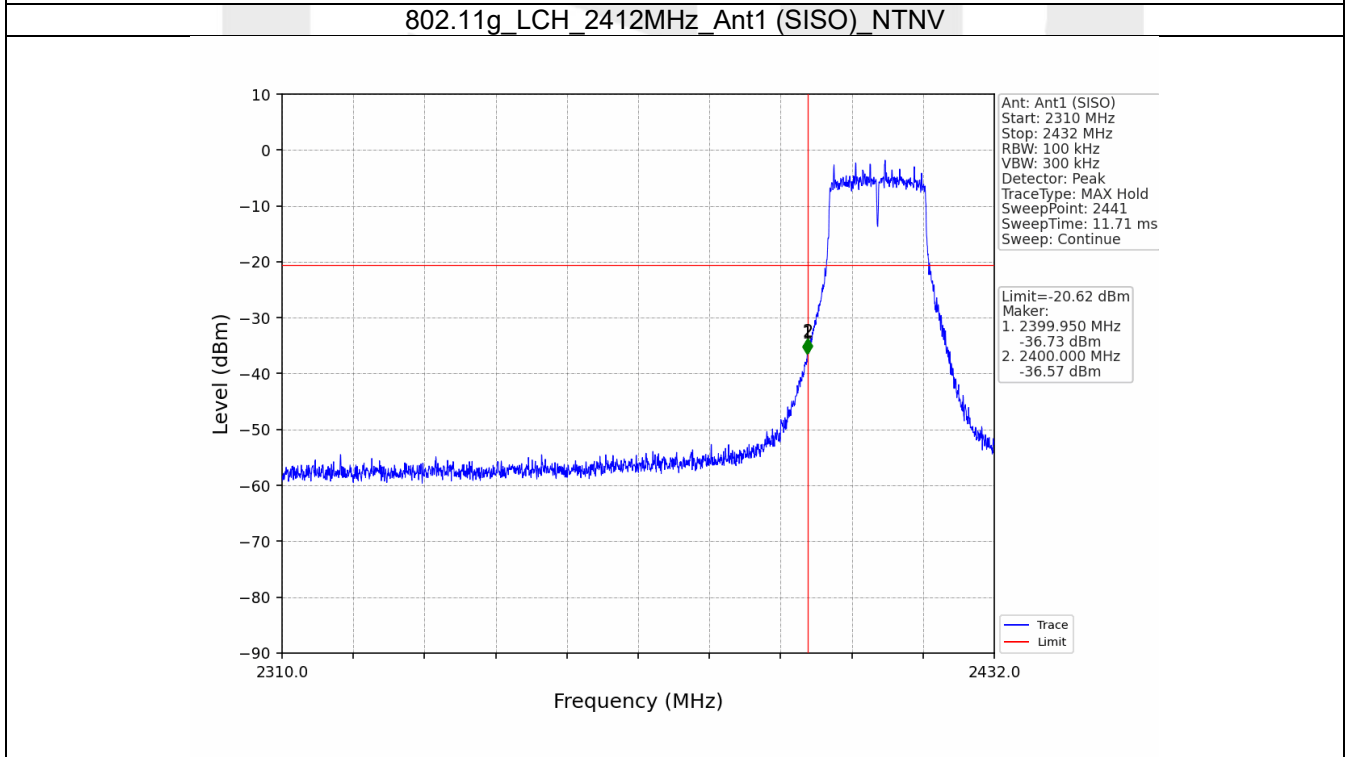
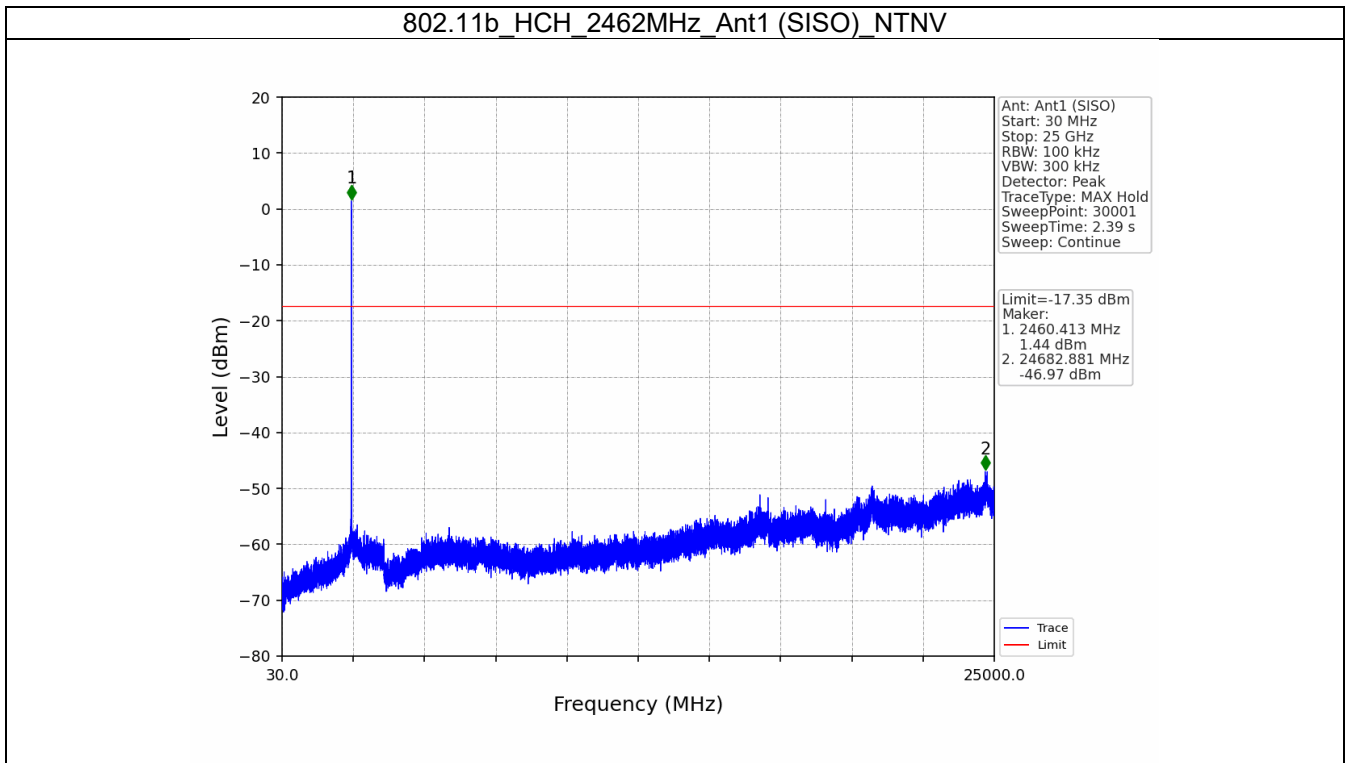
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.65	-17.35	Pass
		2437	1	2.65	-17.35	Pass
		2462	1	2.65	-17.35	Pass
802.11g	SISO	2412	1	-0.62	-20.62	Pass
		2437	1	-0.62	-20.62	Pass
		2462	1	-0.62	-20.62	Pass
802.11n (HT20)	SISO	2412	1	-1.06	-21.06	Pass
		2437	1	-1.06	-21.06	Pass
		2462	1	-1.06	-21.06	Pass

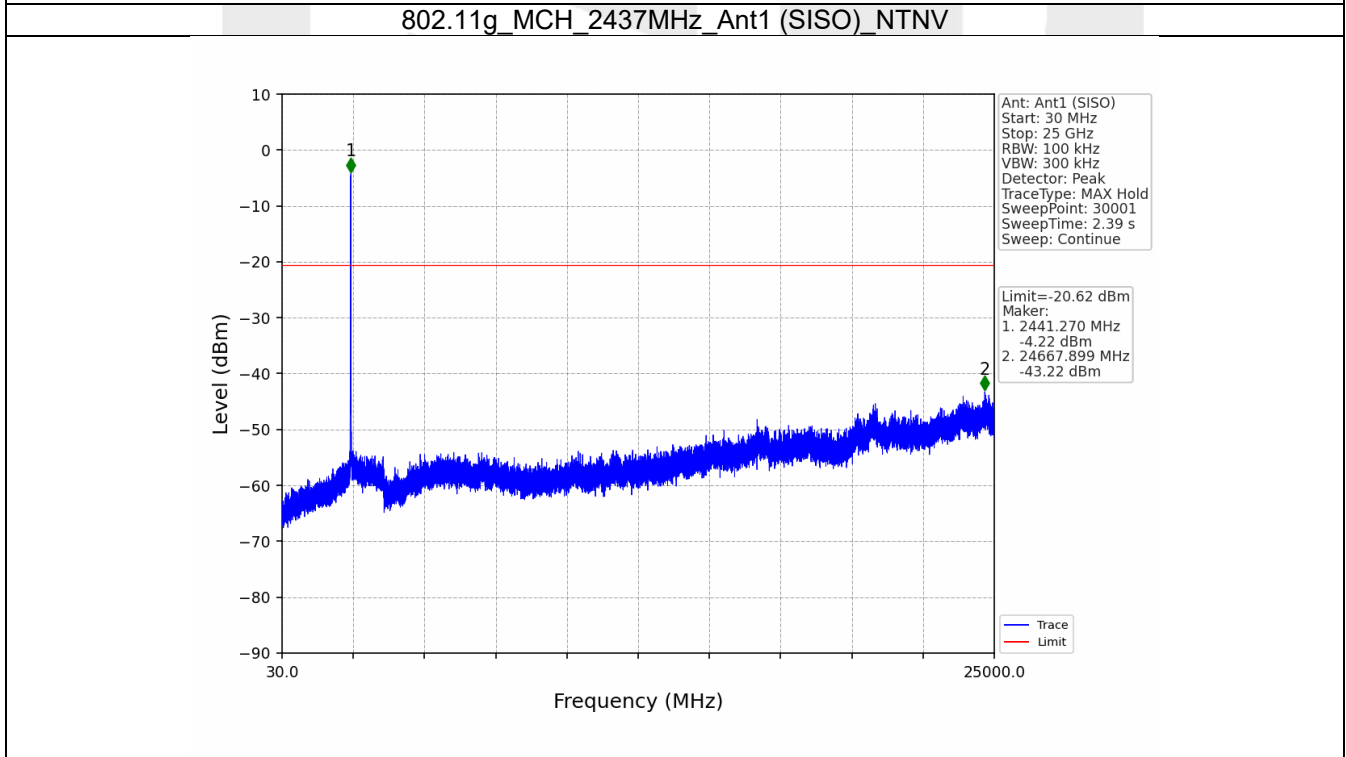
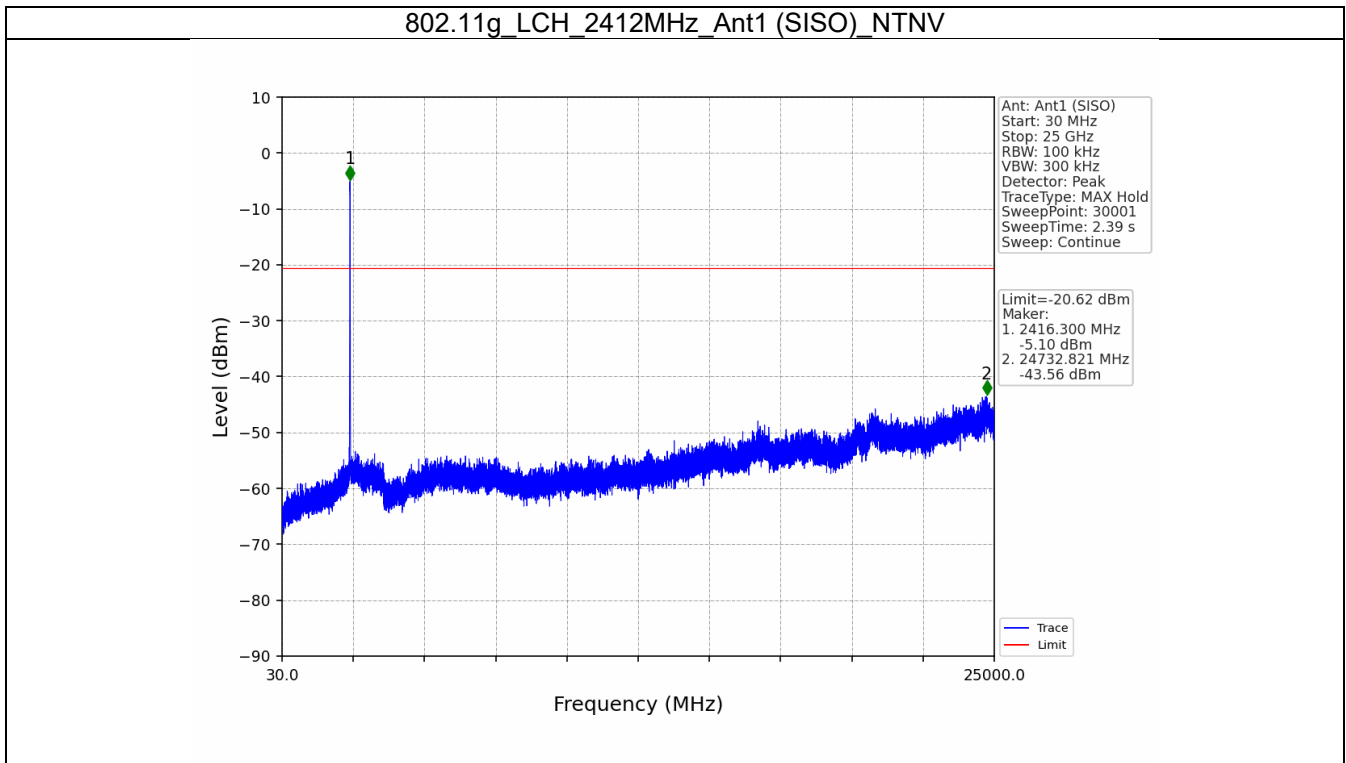
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

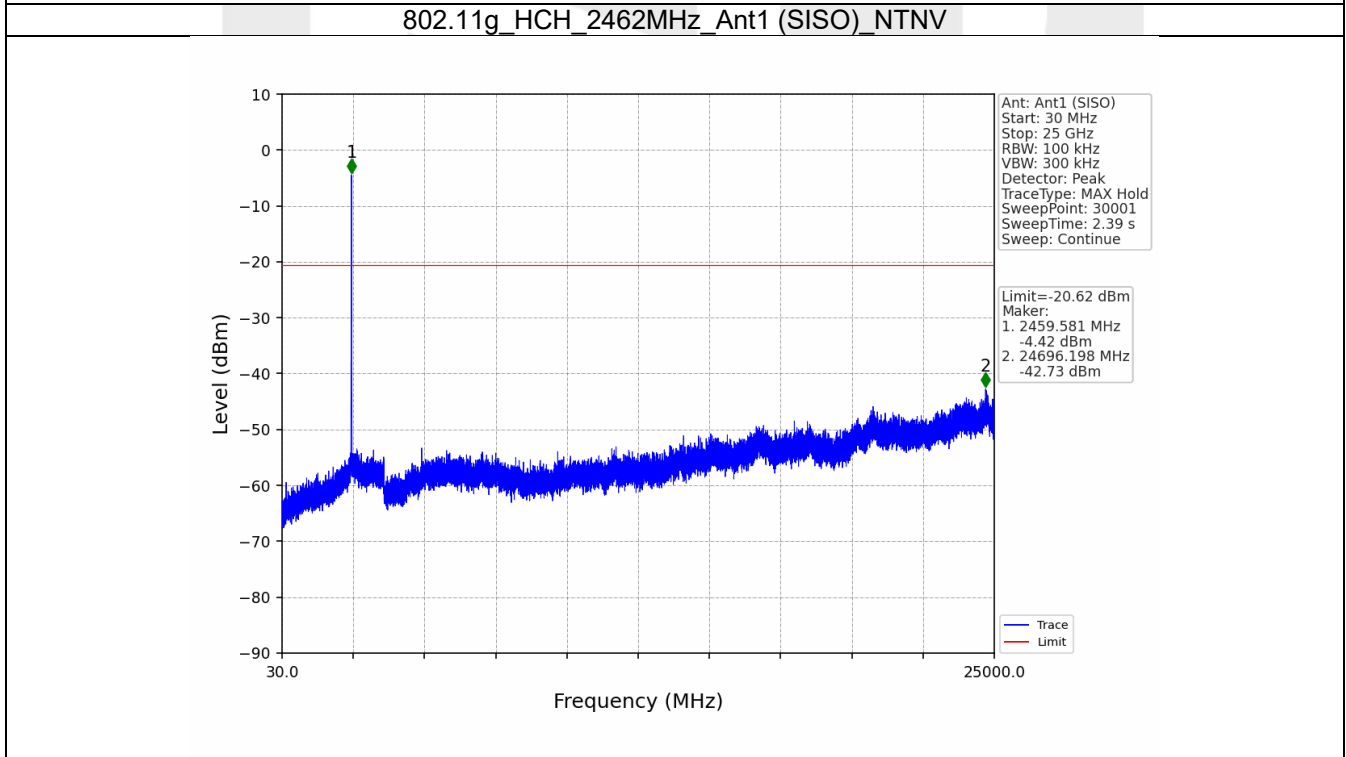
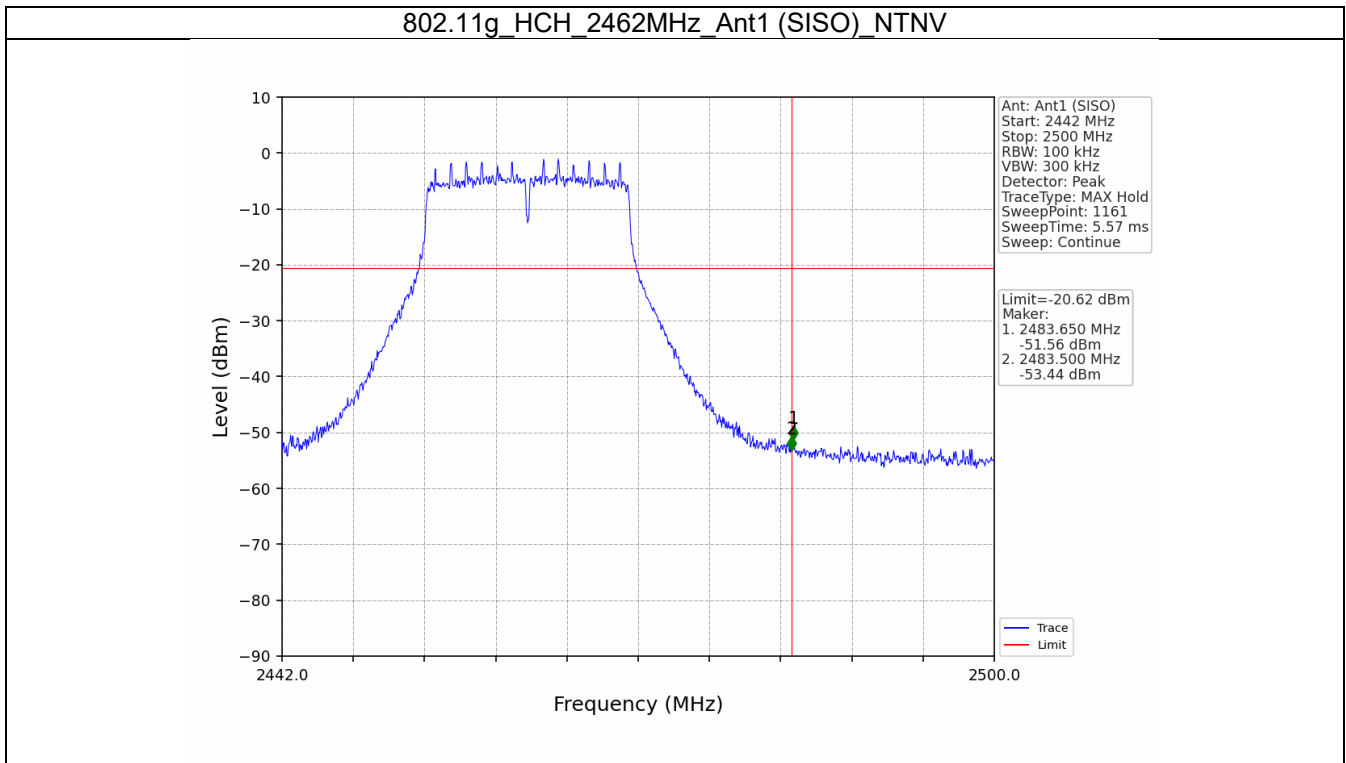
5.2.2 Test Graph

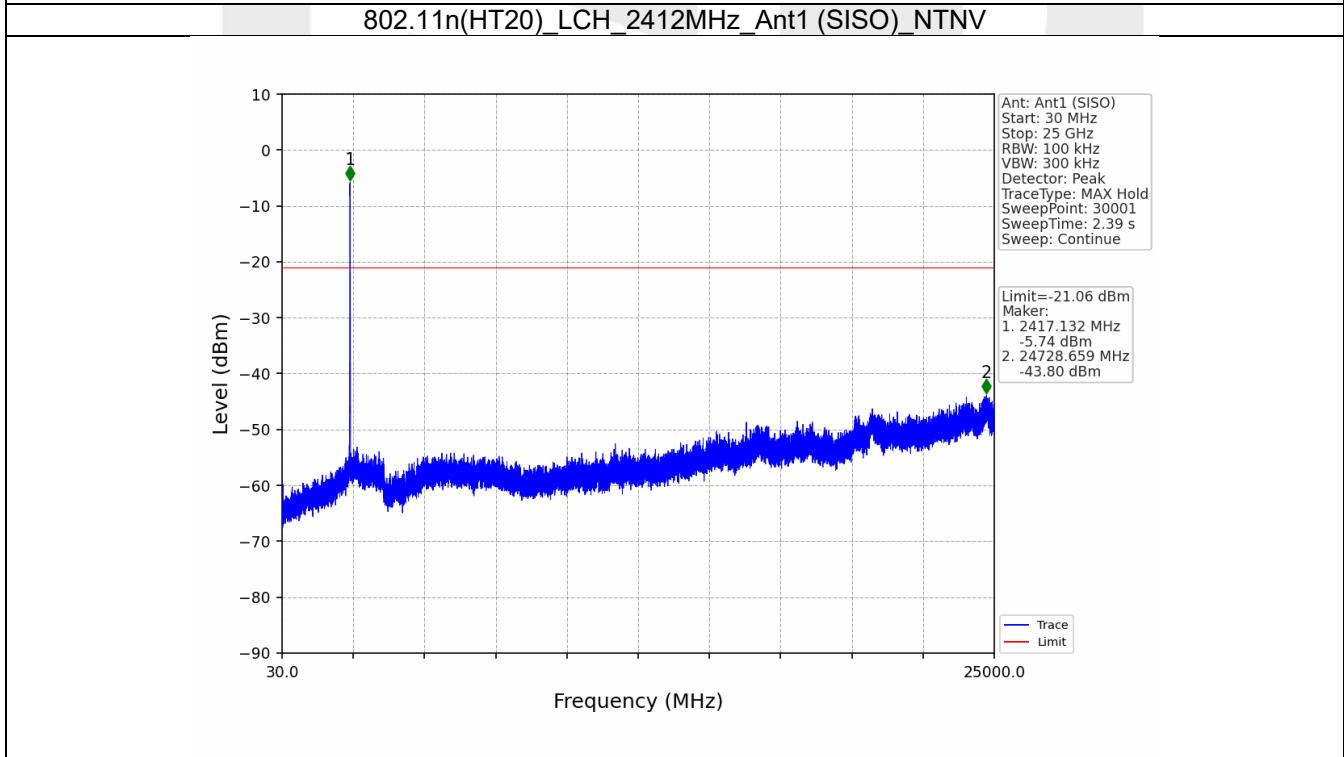
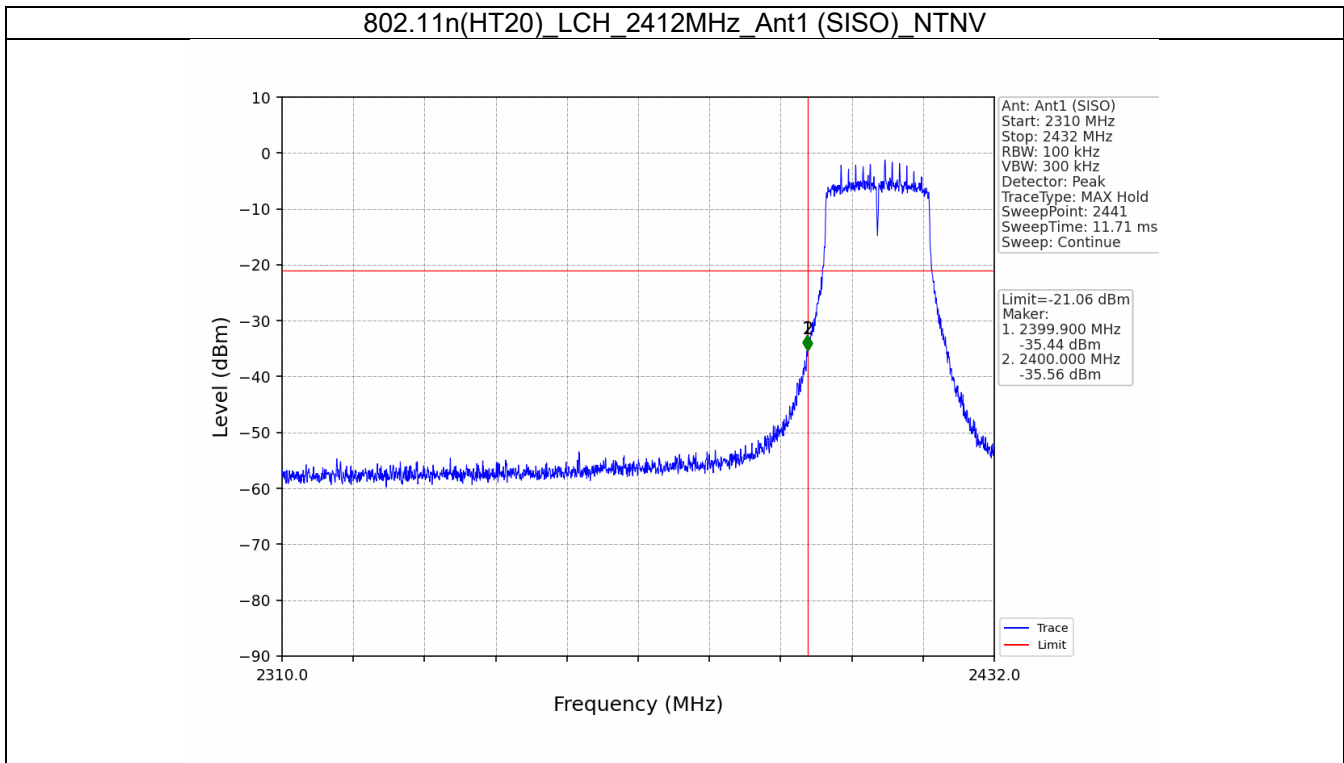




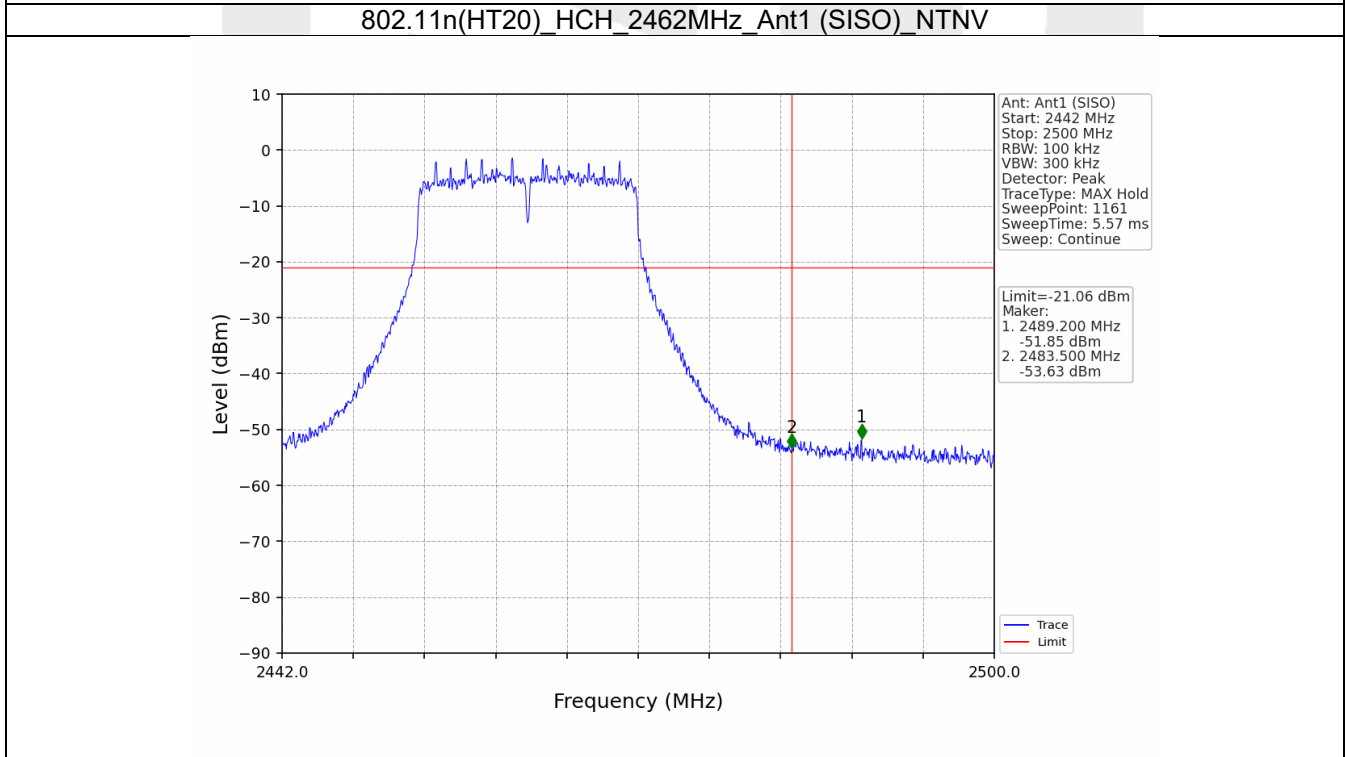
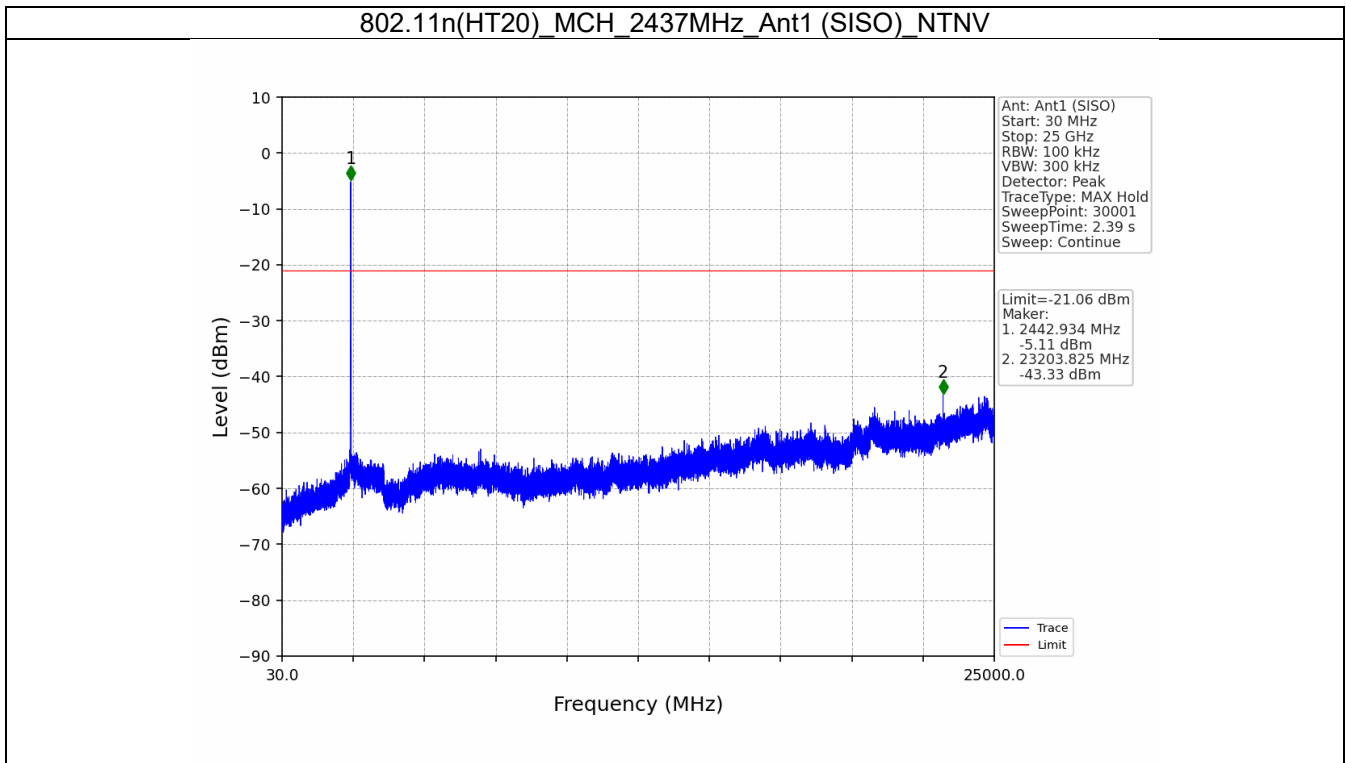


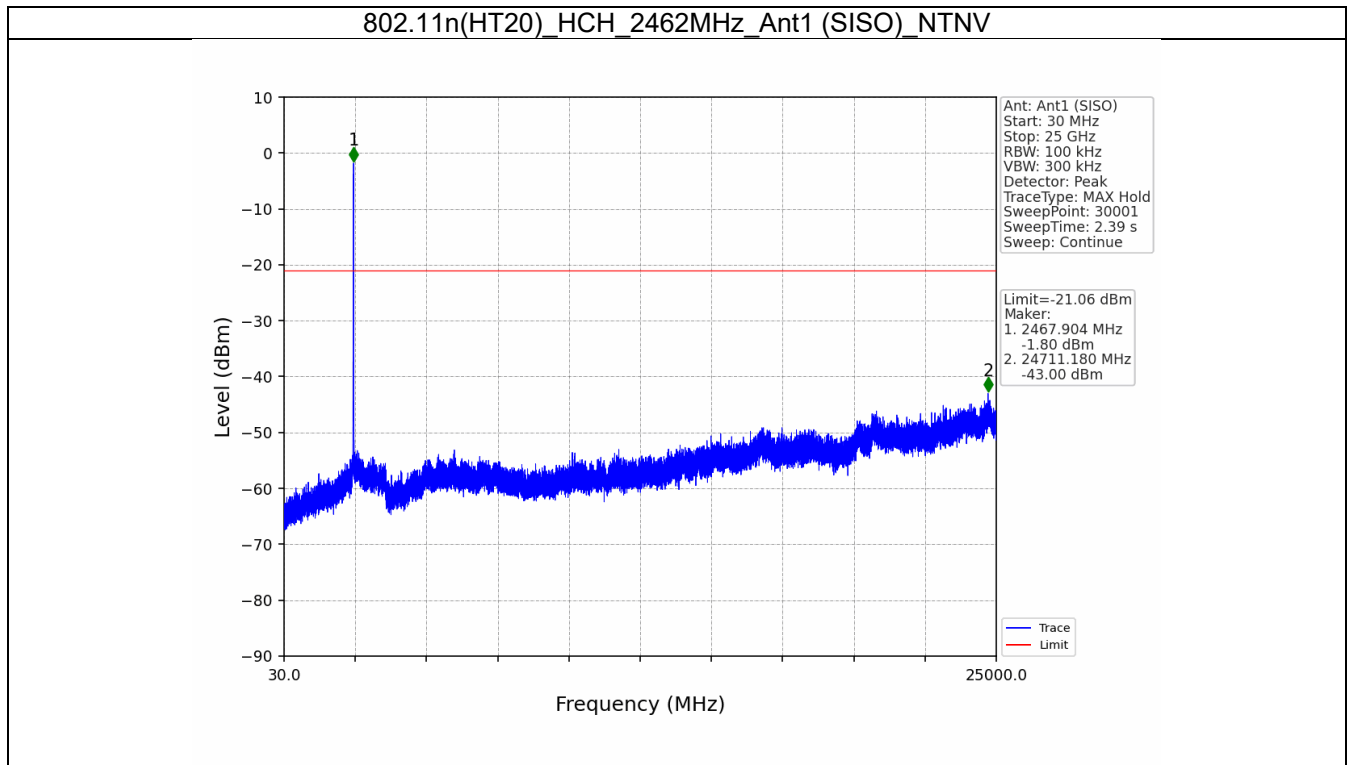












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