

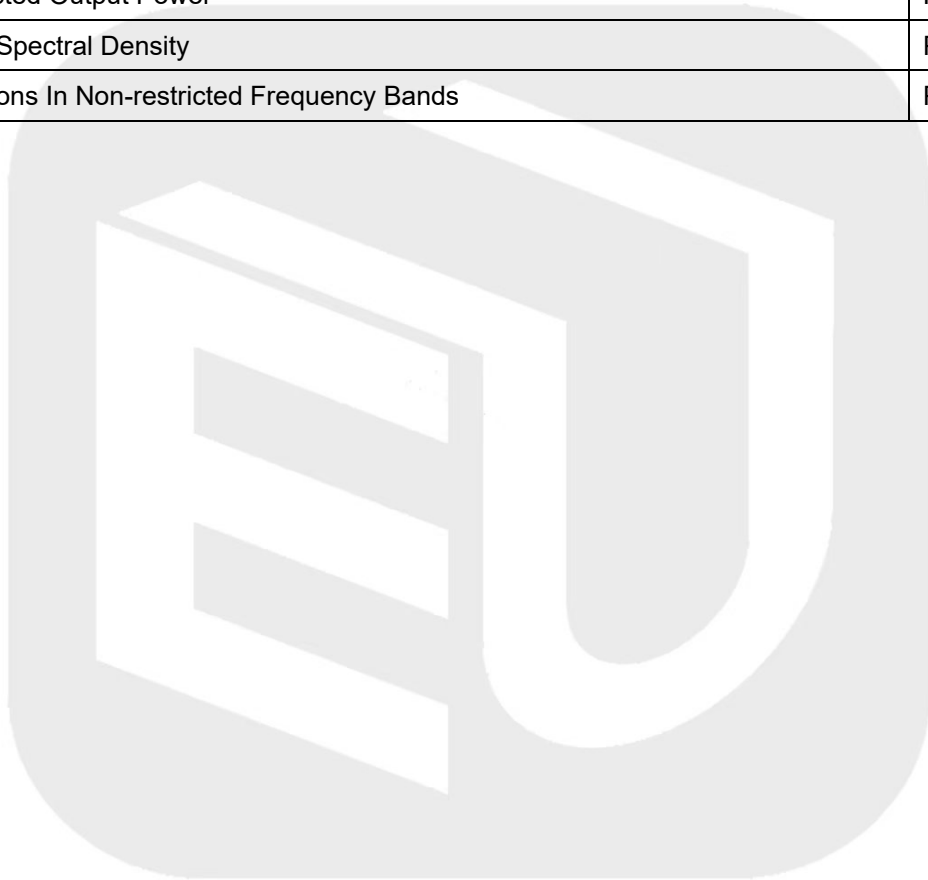
# ANNEX D TEST DATA

## For

Project No.:	8230EU012401W
Client:	Guangzhou Munbyn Information Technology Co, Ltd.
Product Name:	Android Barcode Scanner
Model No.:	IPDA099
FCC ID:	2A8JV-IPDA099
Technology:	Bluetooth BLE
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-06-25

## 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



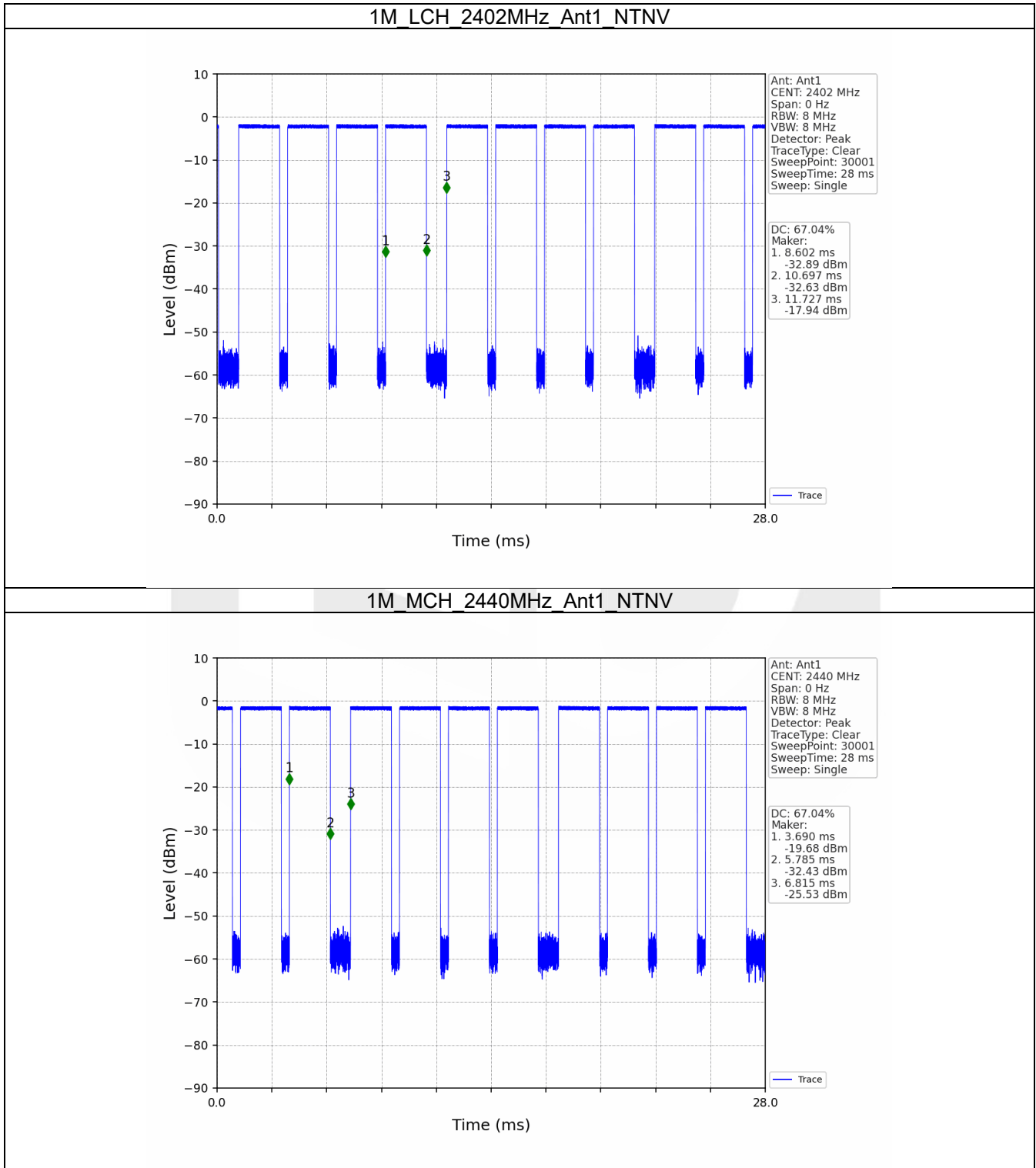
## 1. Duty Cycle

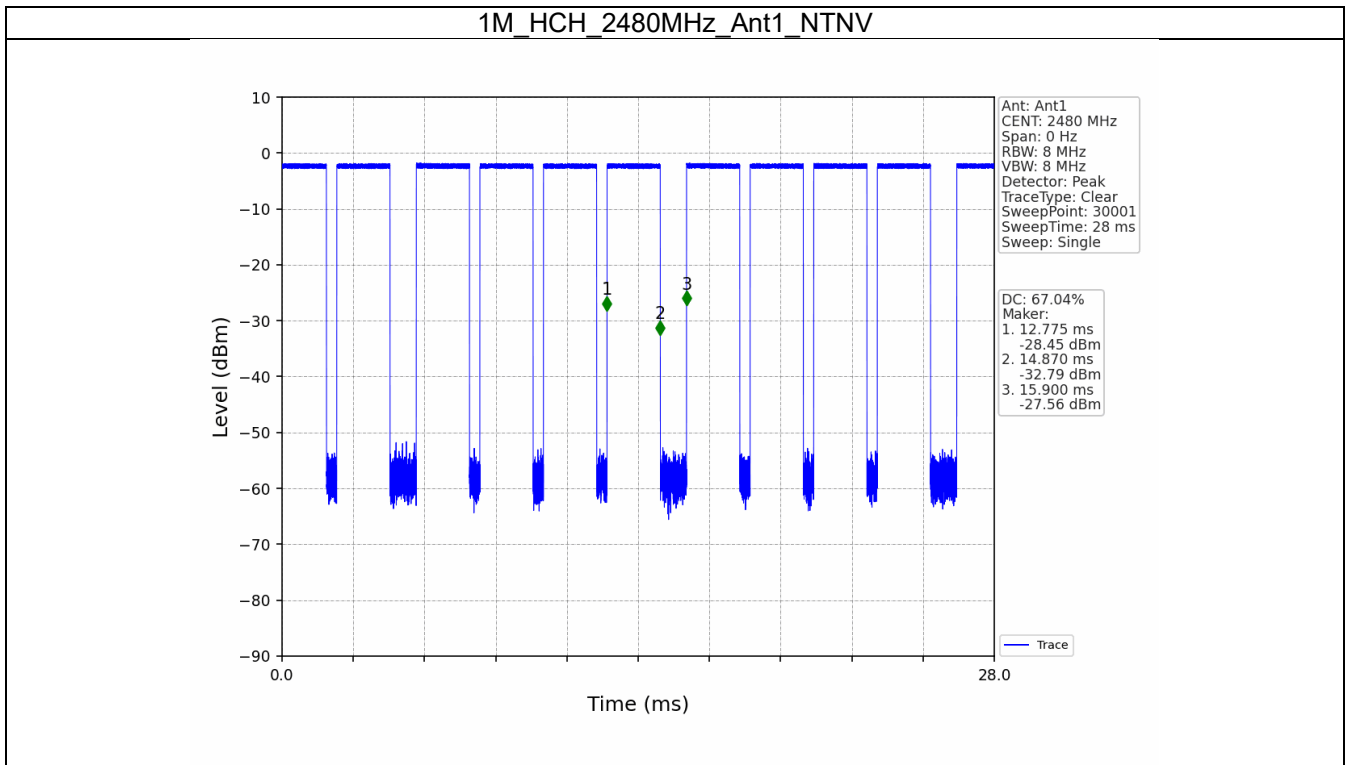
### 1.1 Ant1

#### 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 (%)
1M	SISO	2402	2.095	3.125	67.04	1.74	16.77
		2440	2.095	3.125	67.04	1.74	16.78
		2480	2.095	3.125	67.04	1.74	16.78

1.1.2 Test Graph





## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

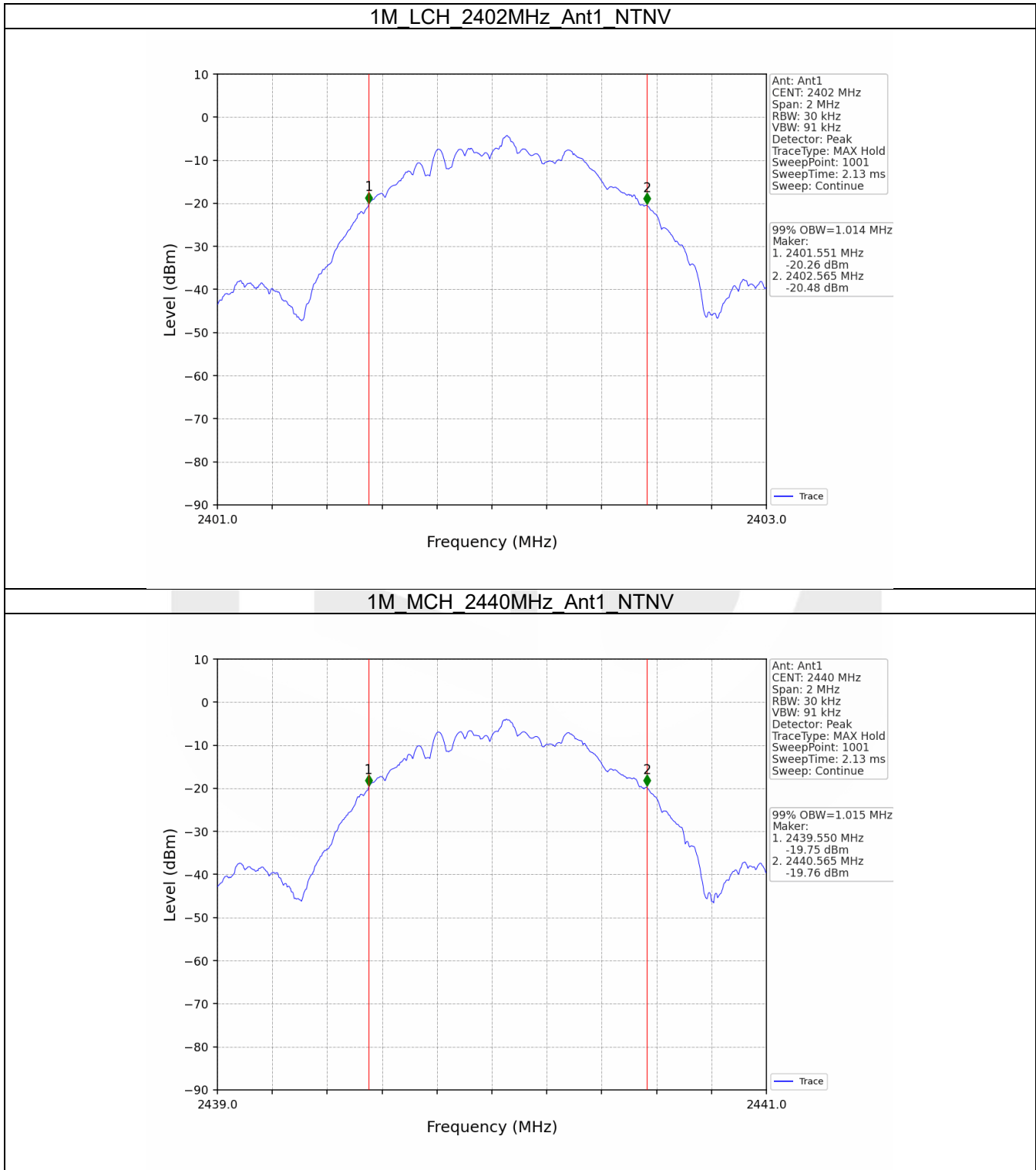
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.014	/	Pass
		2440	1	1.015	/	Pass
		2480	1	1.014	/	Pass

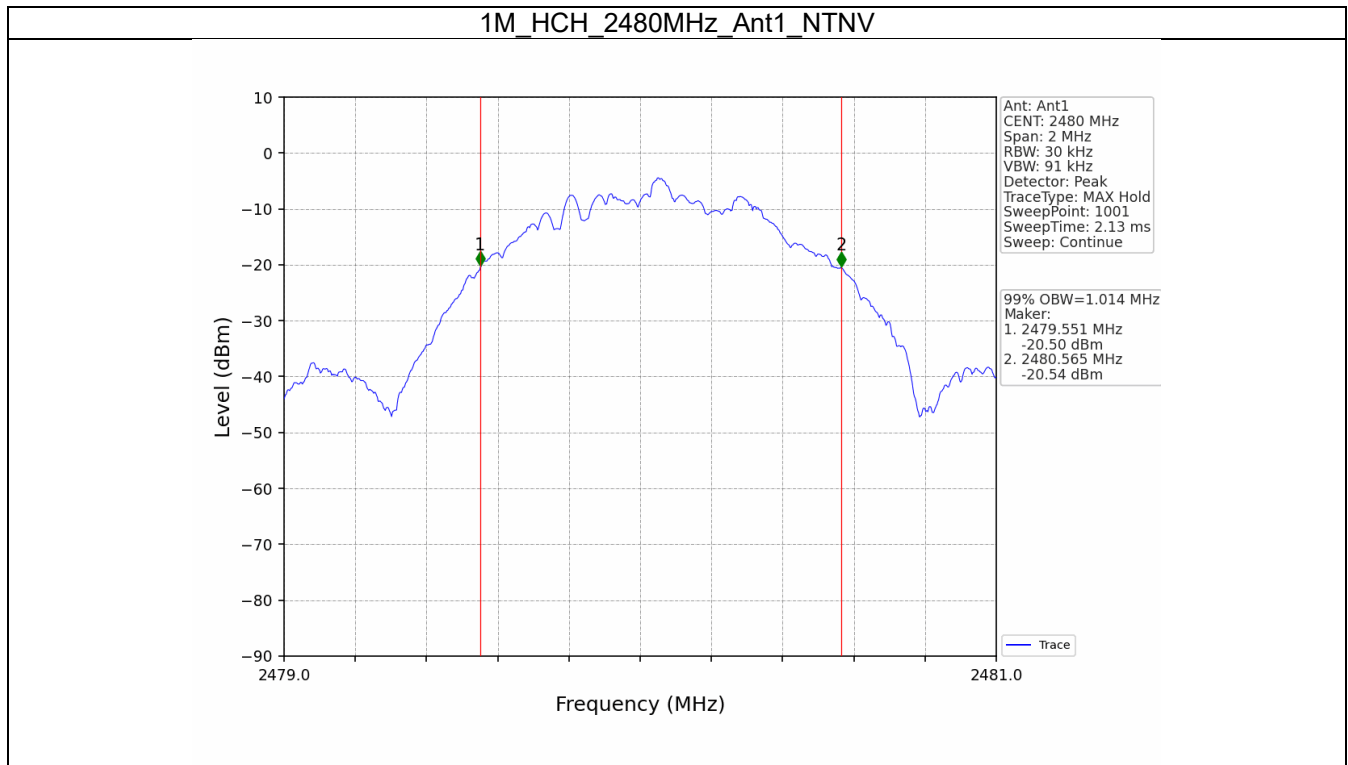
### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.640	$\geq 0.5$	Pass
		2440	1	0.643	$\geq 0.5$	Pass
		2480	1	0.639	$\geq 0.5$	Pass

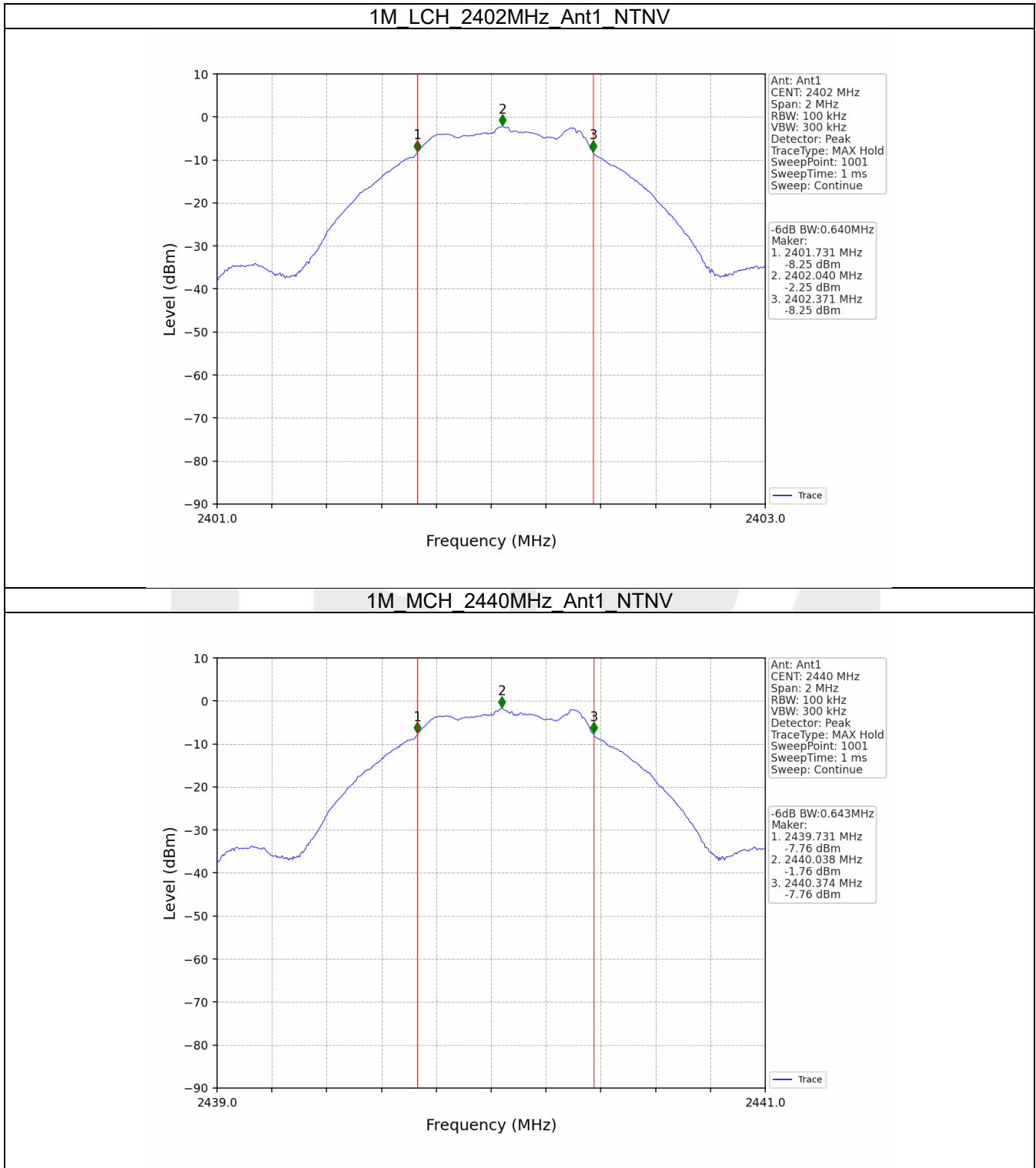
2.1.2 Test Graph

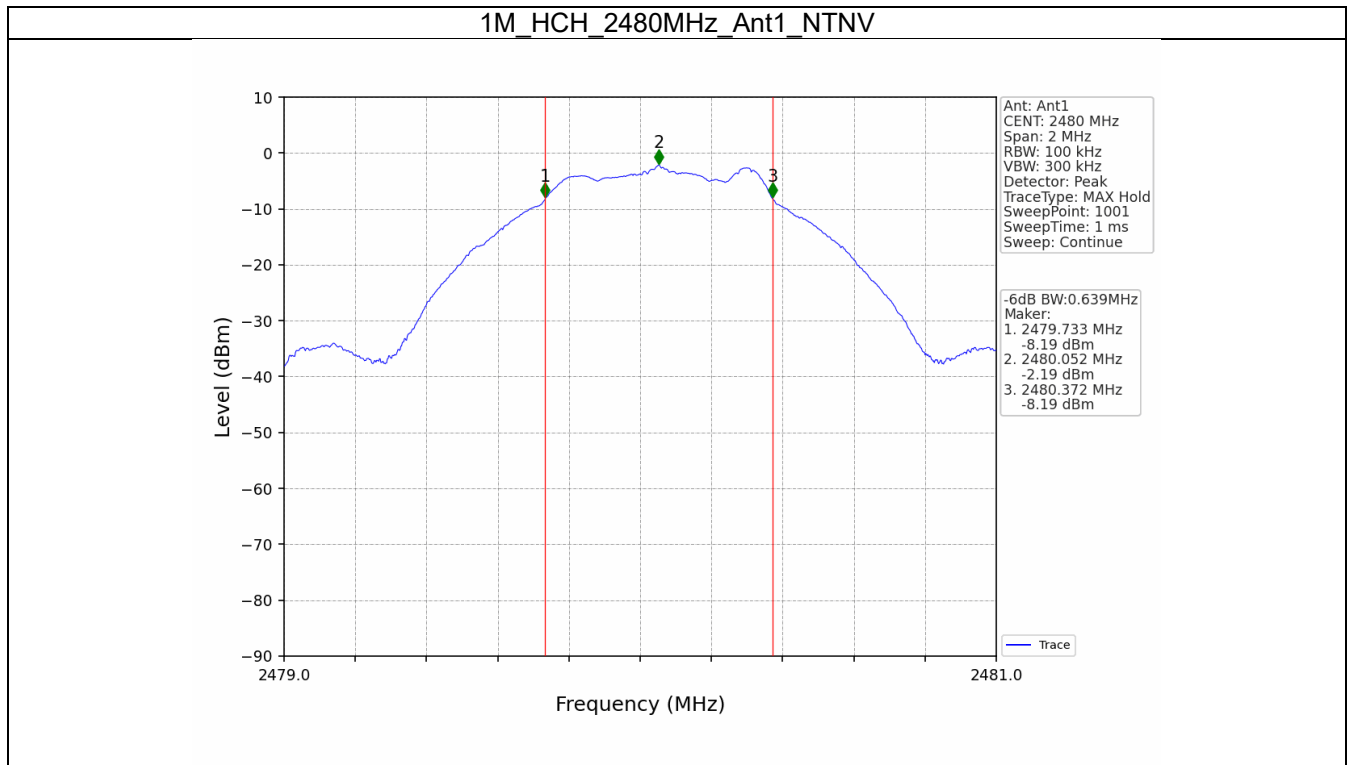






2.2.2 Test Graph





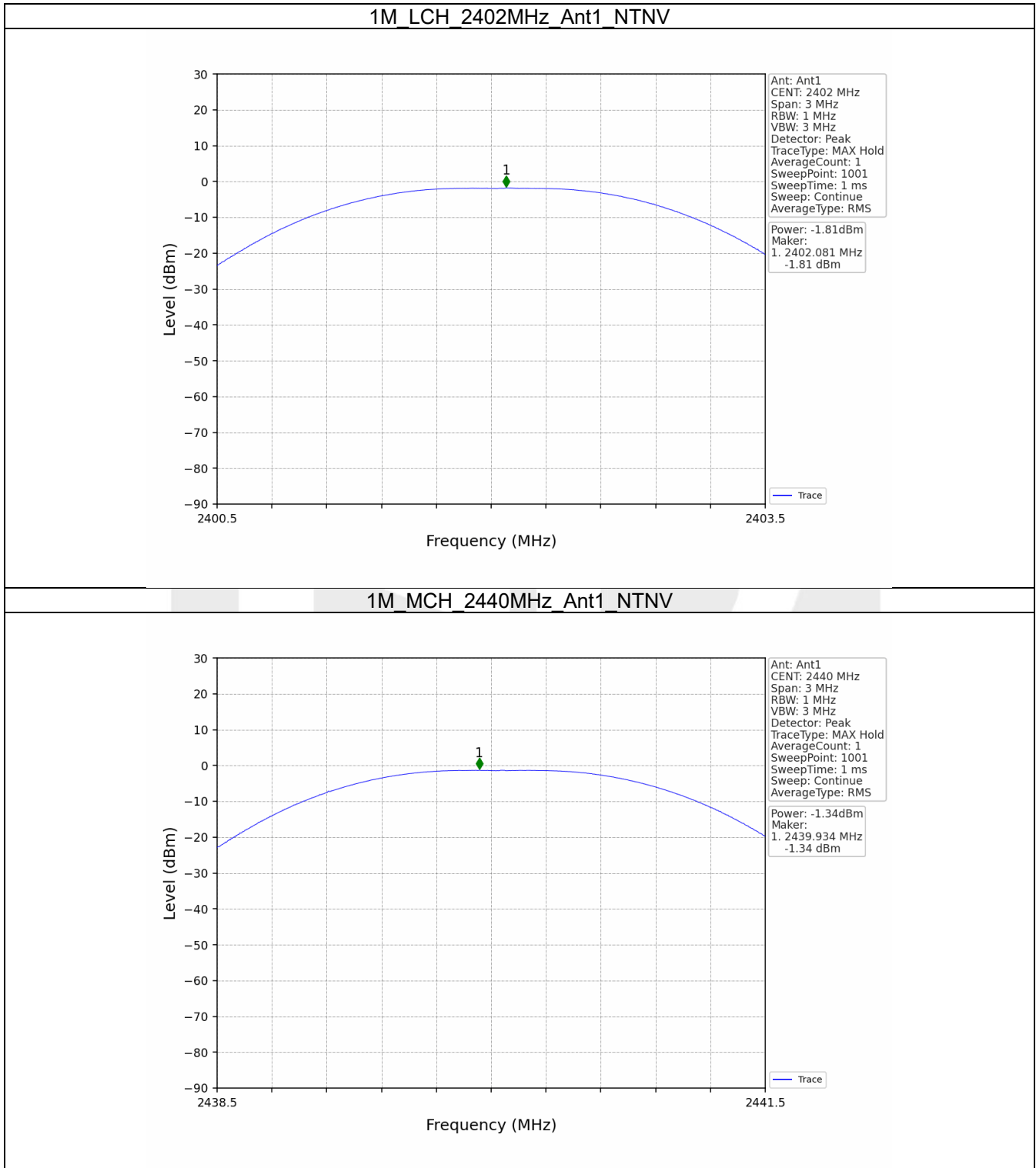
### 3. Maximum Conducted Output Power

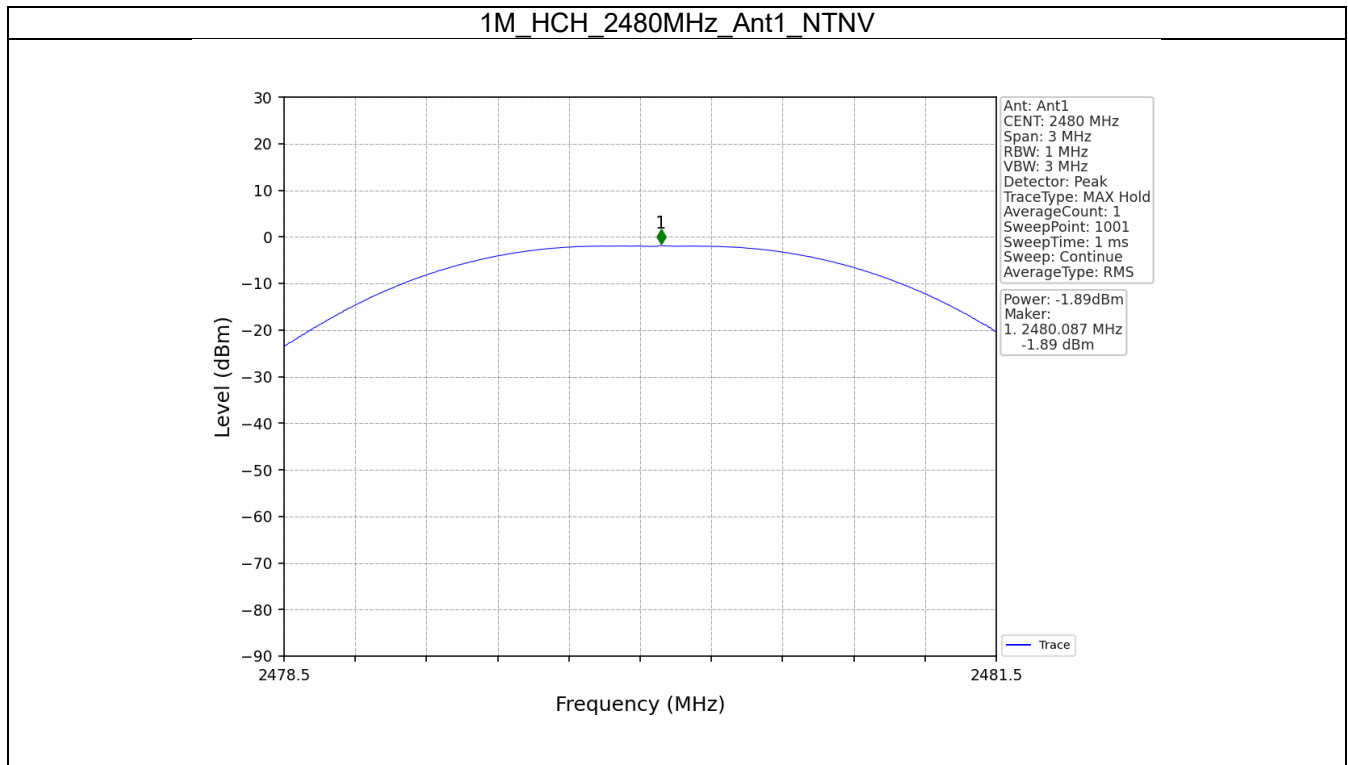
#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-1.81	<=30	Pass
		2440	-1.34	<=30	Pass
		2480	-1.89	<=30	Pass

3.1.2 Test Graph





#### 4. Maximum Power Spectral Density

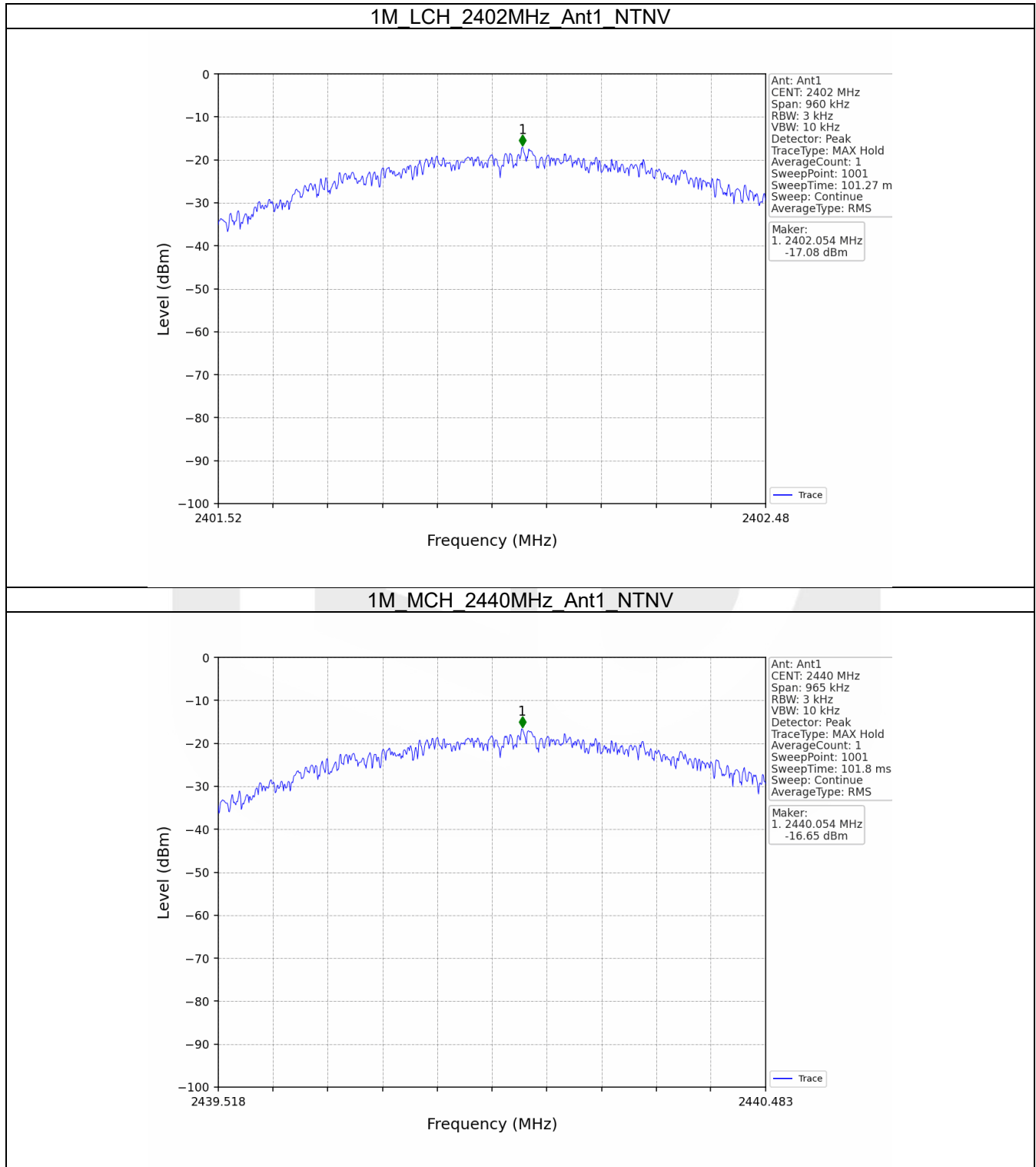
##### 4.1 PSD

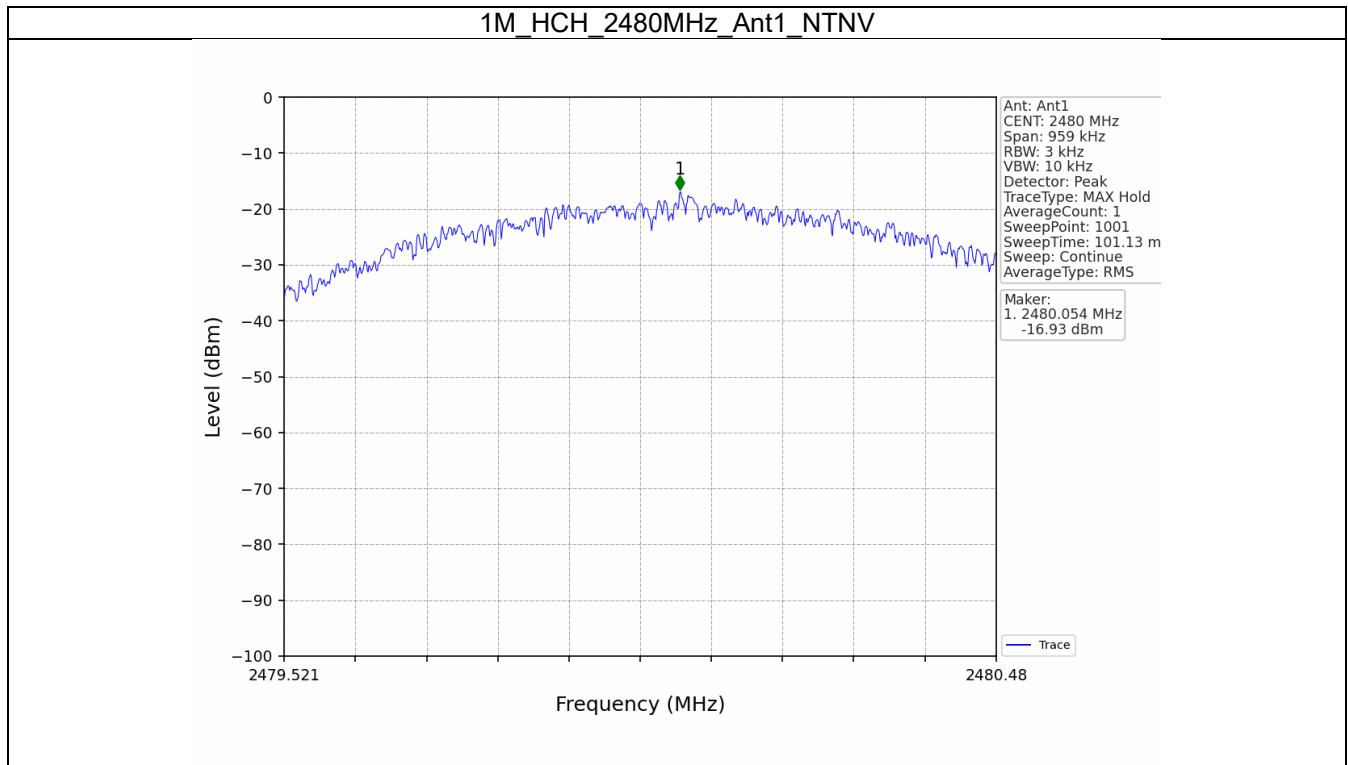
##### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-17.08	<=8	Pass
		2440	-16.65	<=8	Pass
		2480	-16.93	<=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)
1M	SISO	2402	1	-2.21
		2440	1	-1.63
		2480	1	-2.30

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.

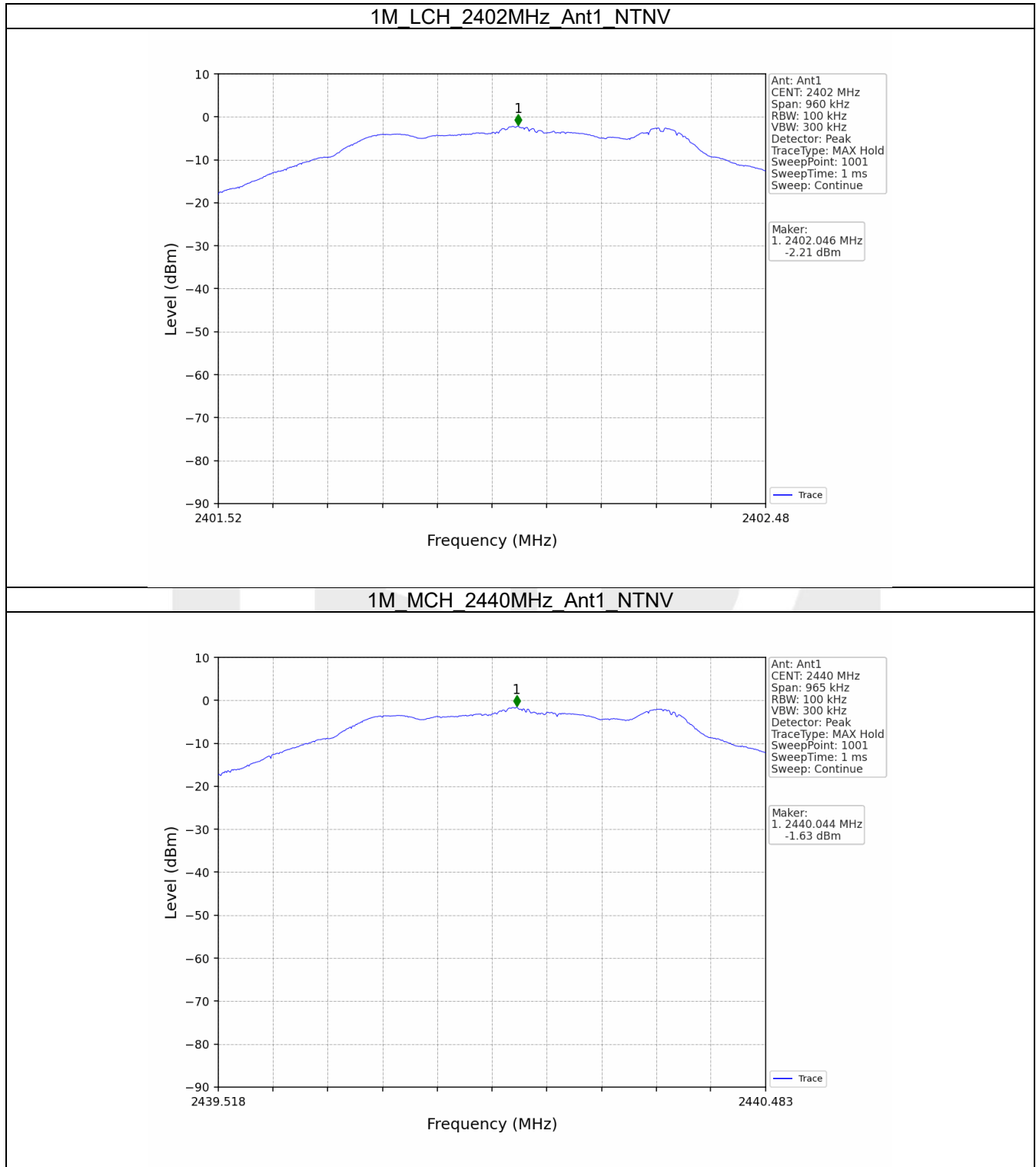
### 5.2 CSE

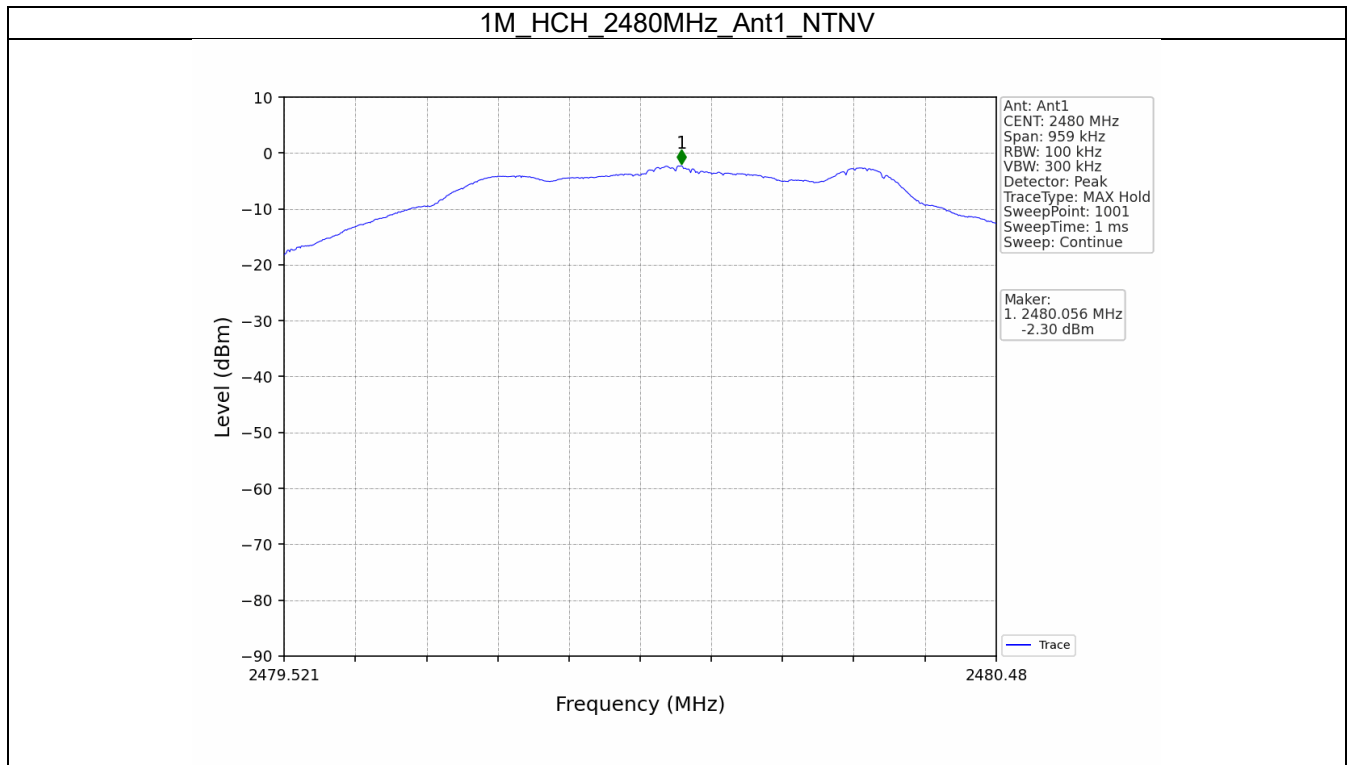
#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-1.63	-21.63	Pass
		2440	1	-1.63	-21.63	Pass
		2480	1	-1.63	-21.63	Pass

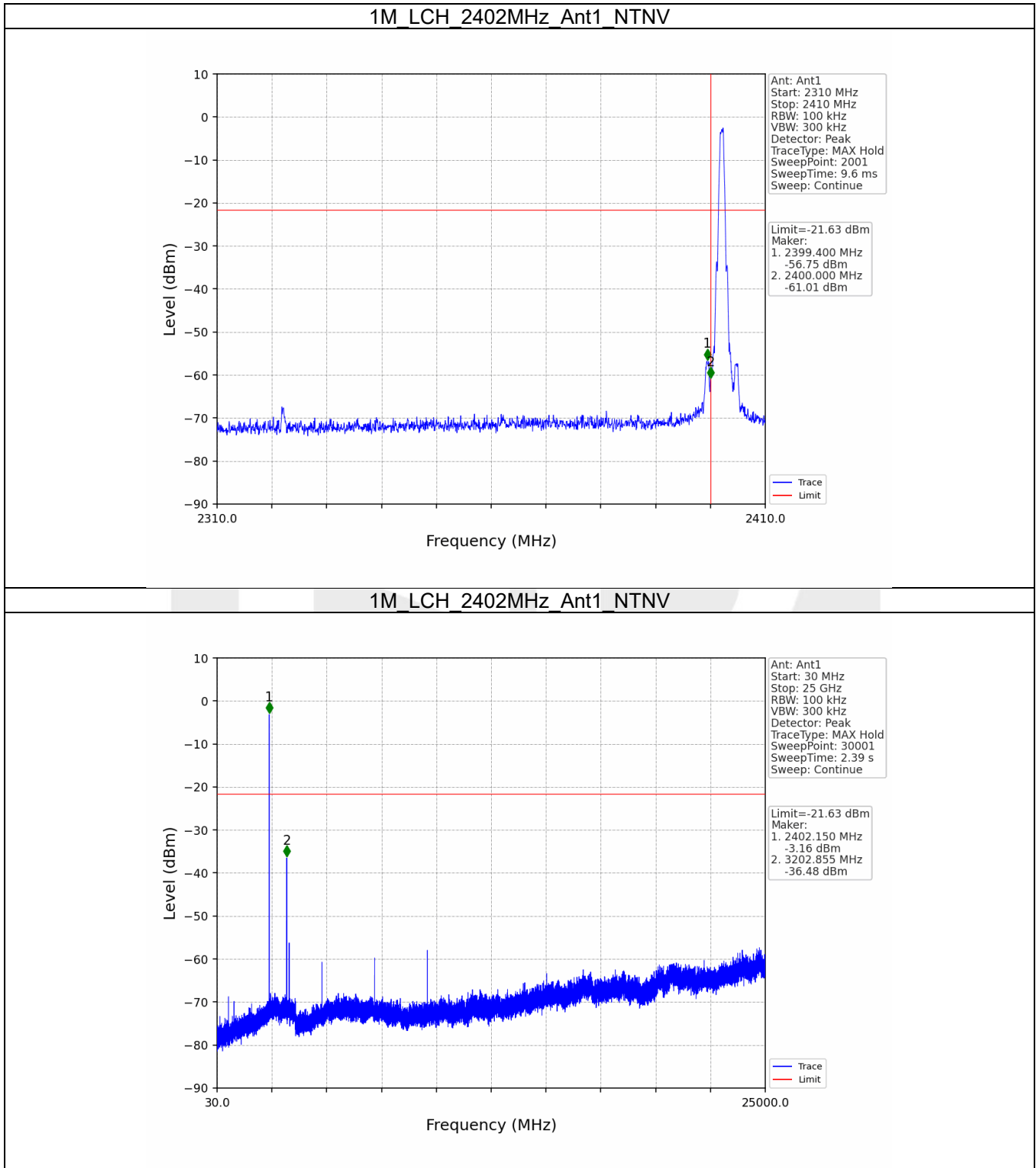
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

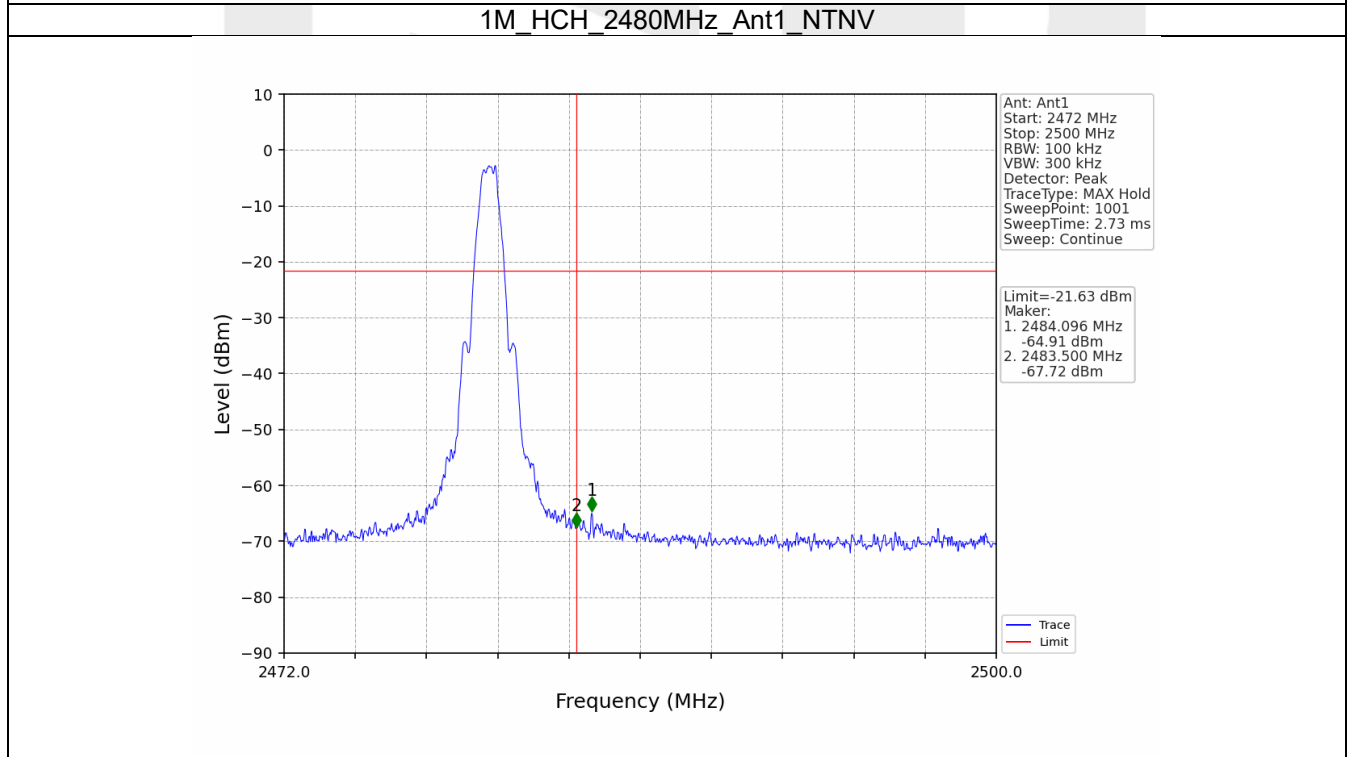
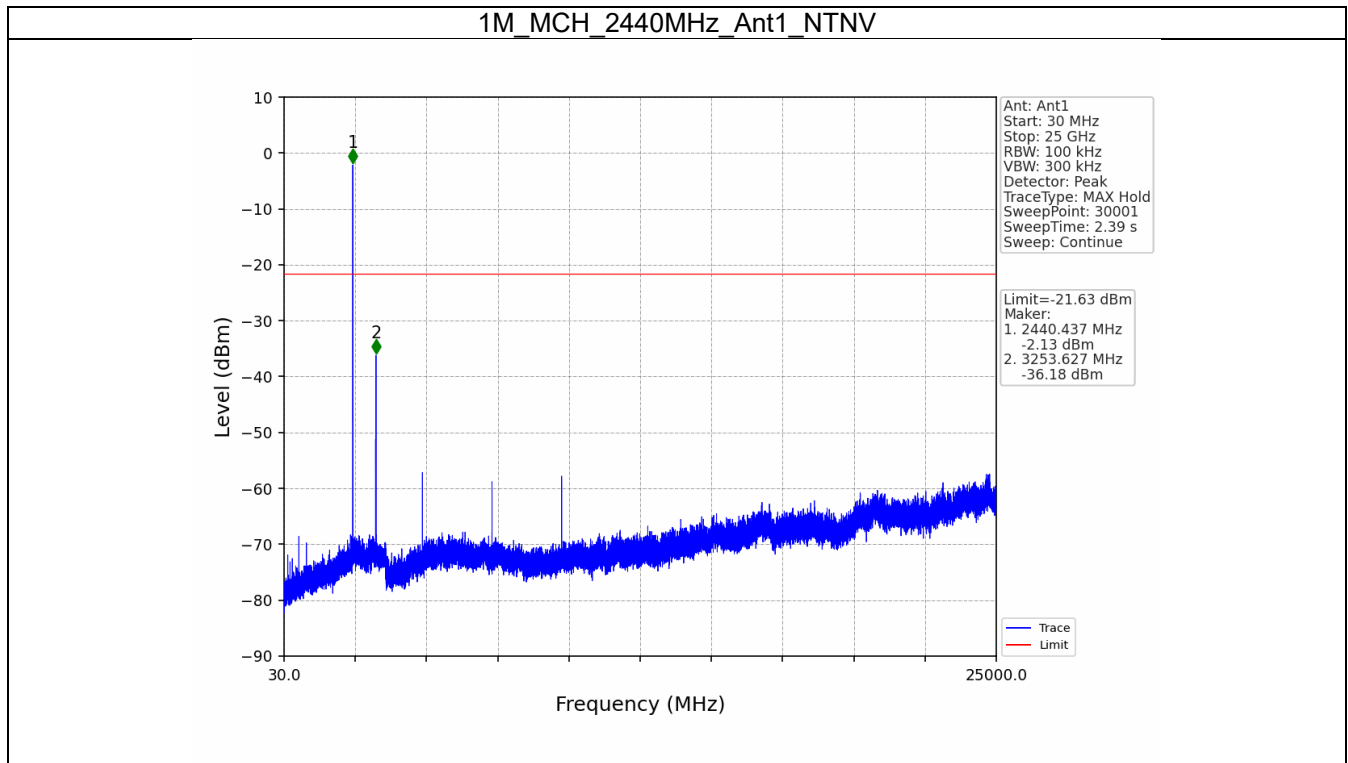
5.1.2 Test Graph

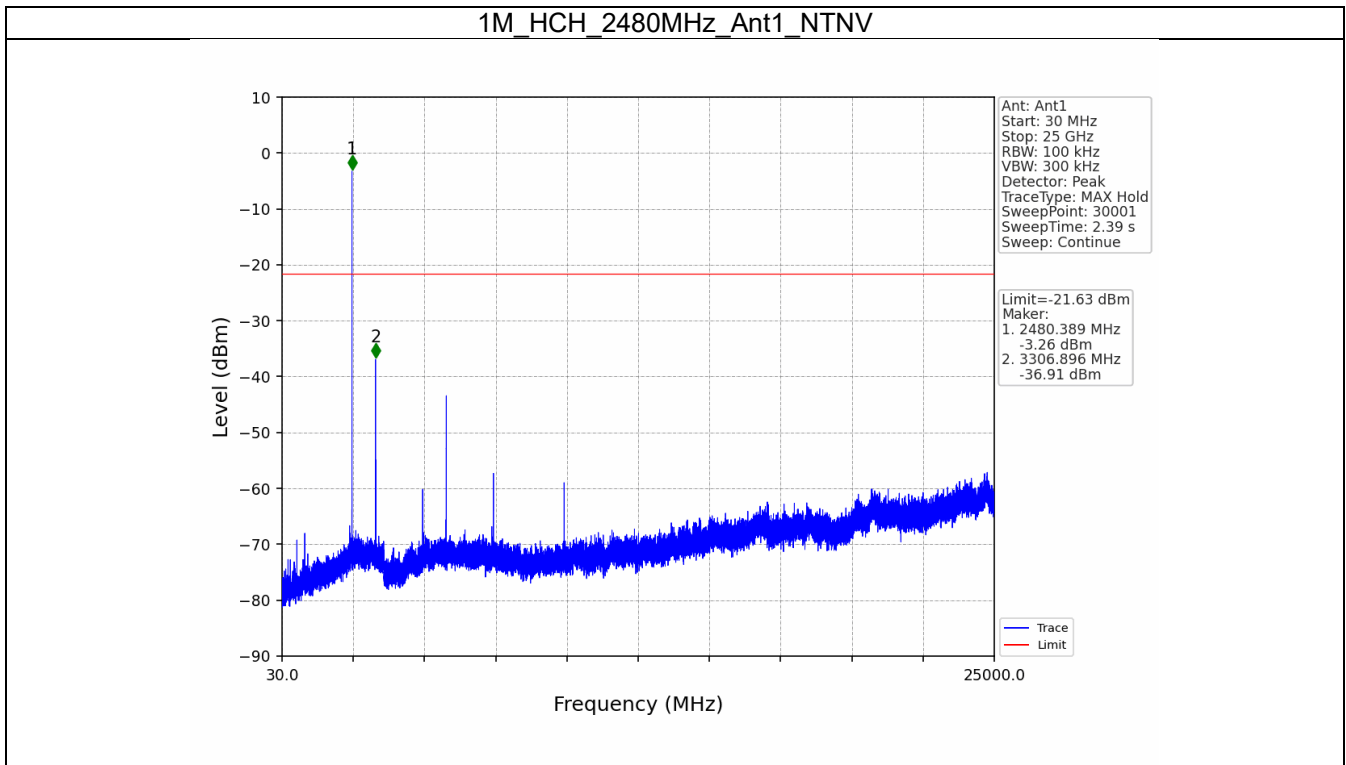




5.2.2 Test Graph







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