

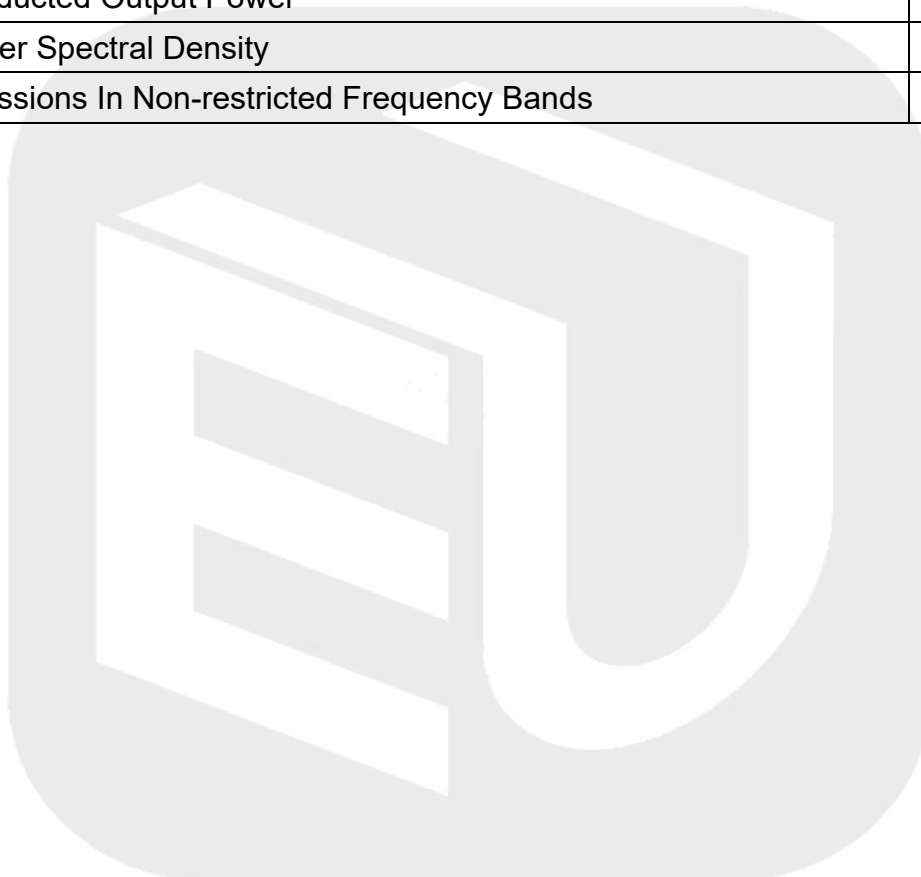
ANNEX D TEST DATA

For

Project No.:	8334EU123006W
Client:	Dongguan Xinchuangbo Electronic Technology Co., Ltd
Product Description:	Tachograph
Model No.:	F13-MAX
FCC ID:	2BTEU-F13-MAX
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2025-10-16

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

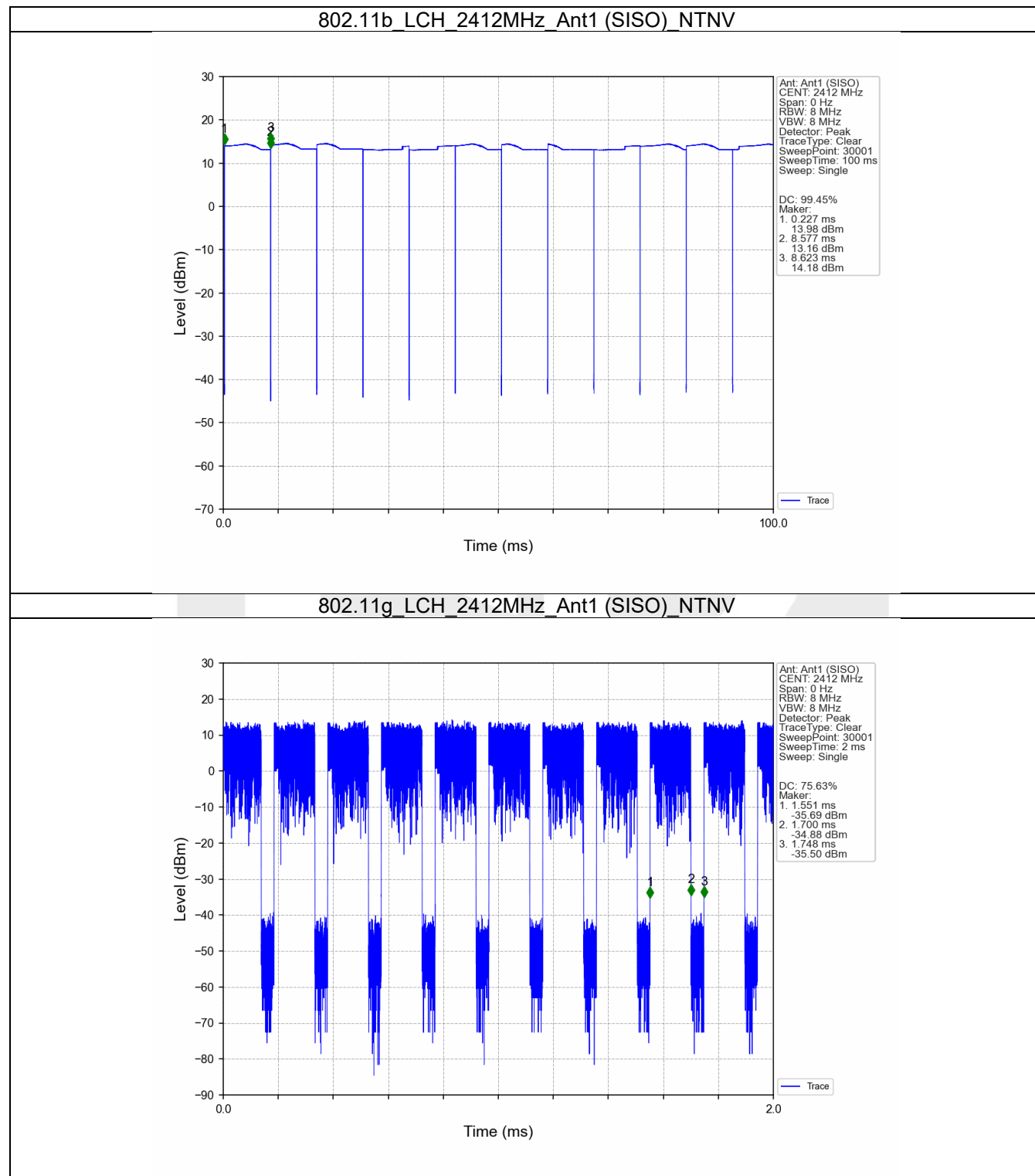
1.1 Test Result

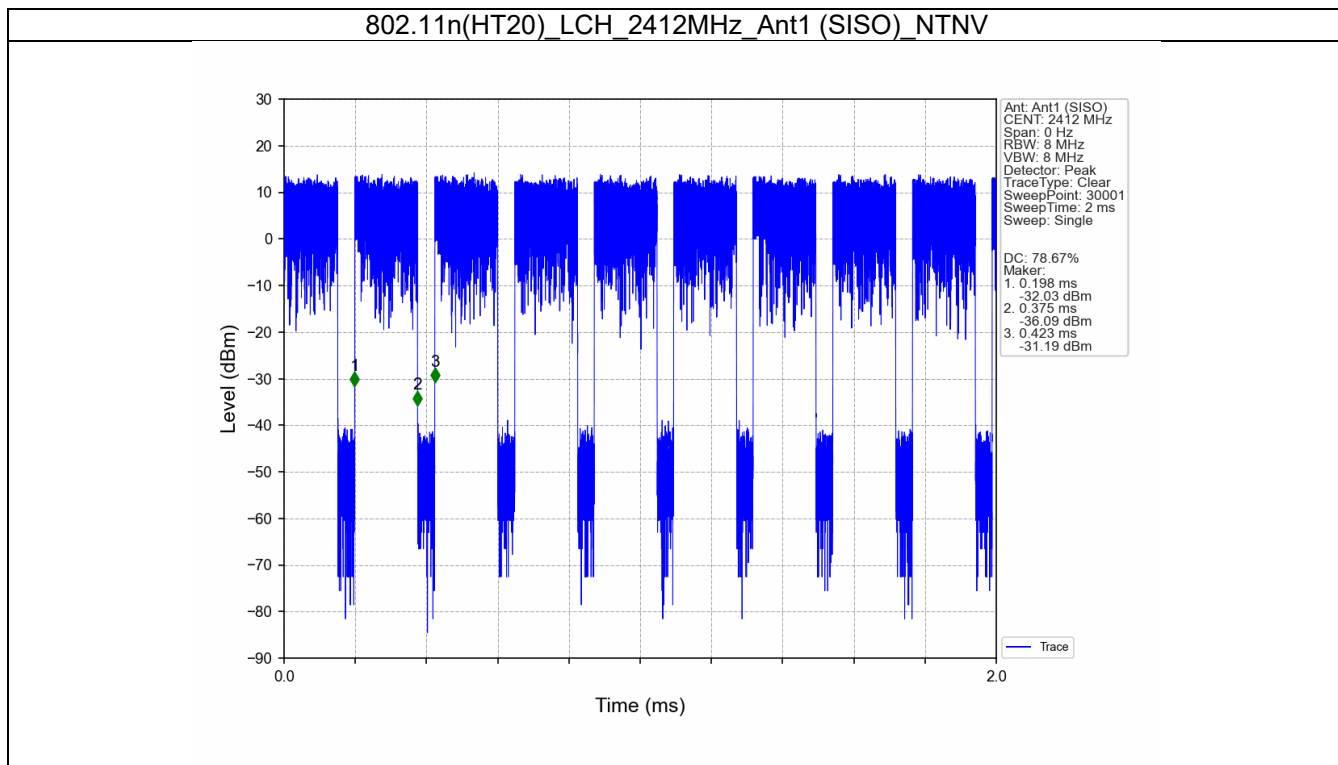
1.1.1 Ant1

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	8.350	8.396	99.45	0.02	0.04
802.11g	SISO	2412	0.149	0.197	75.63	1.21	0.51
802.11n (HT20)	SISO	2412	0.177	0.225	78.67	1.04	0.73

1.2 Test Graph

1.2.1 Ant1





2. Bandwidth

2.1 Test Result

2.1.1 OBW

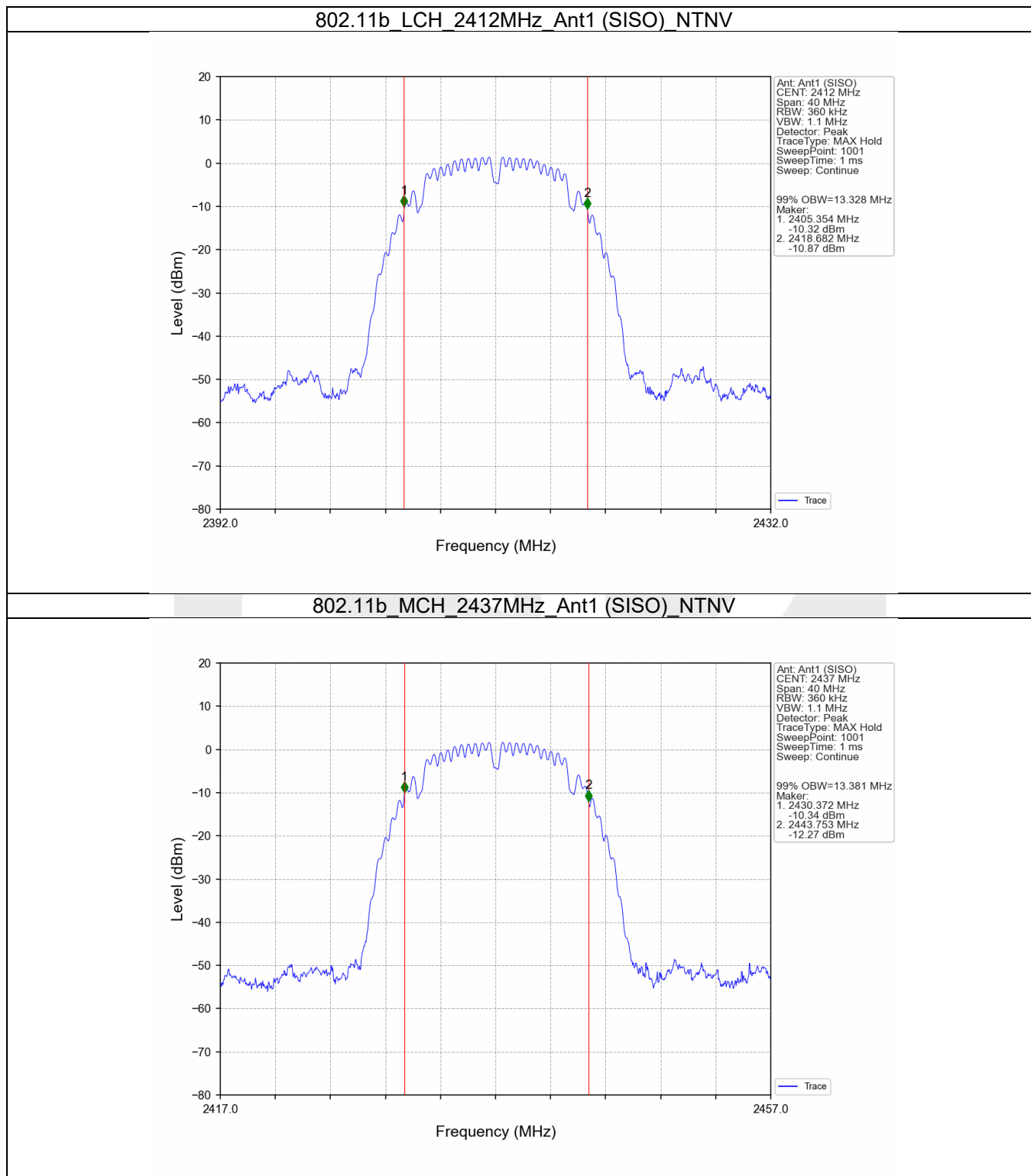
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.328	/	Pass
		2437	1	13.381	/	Pass
		2462	1	13.376	/	Pass
802.11g	SISO	2412	1	17.228	/	Pass
		2437	1	17.289	/	Pass
		2462	1	17.383	/	Pass
802.11n (HT20)	SISO	2412	1	18.302	/	Pass
		2437	1	18.340	/	Pass
		2462	1	18.294	/	Pass

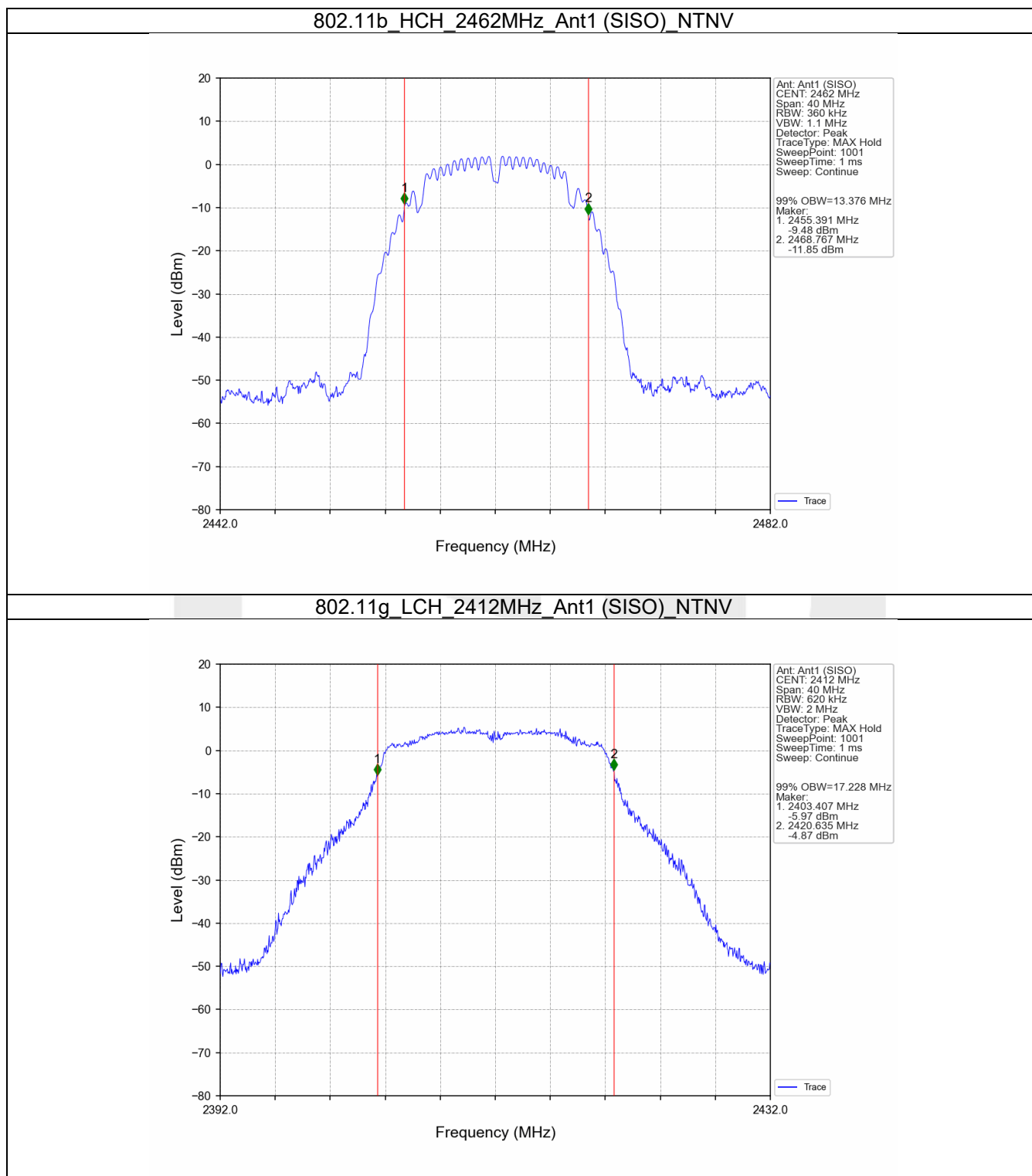
2.1.2 6dB BW

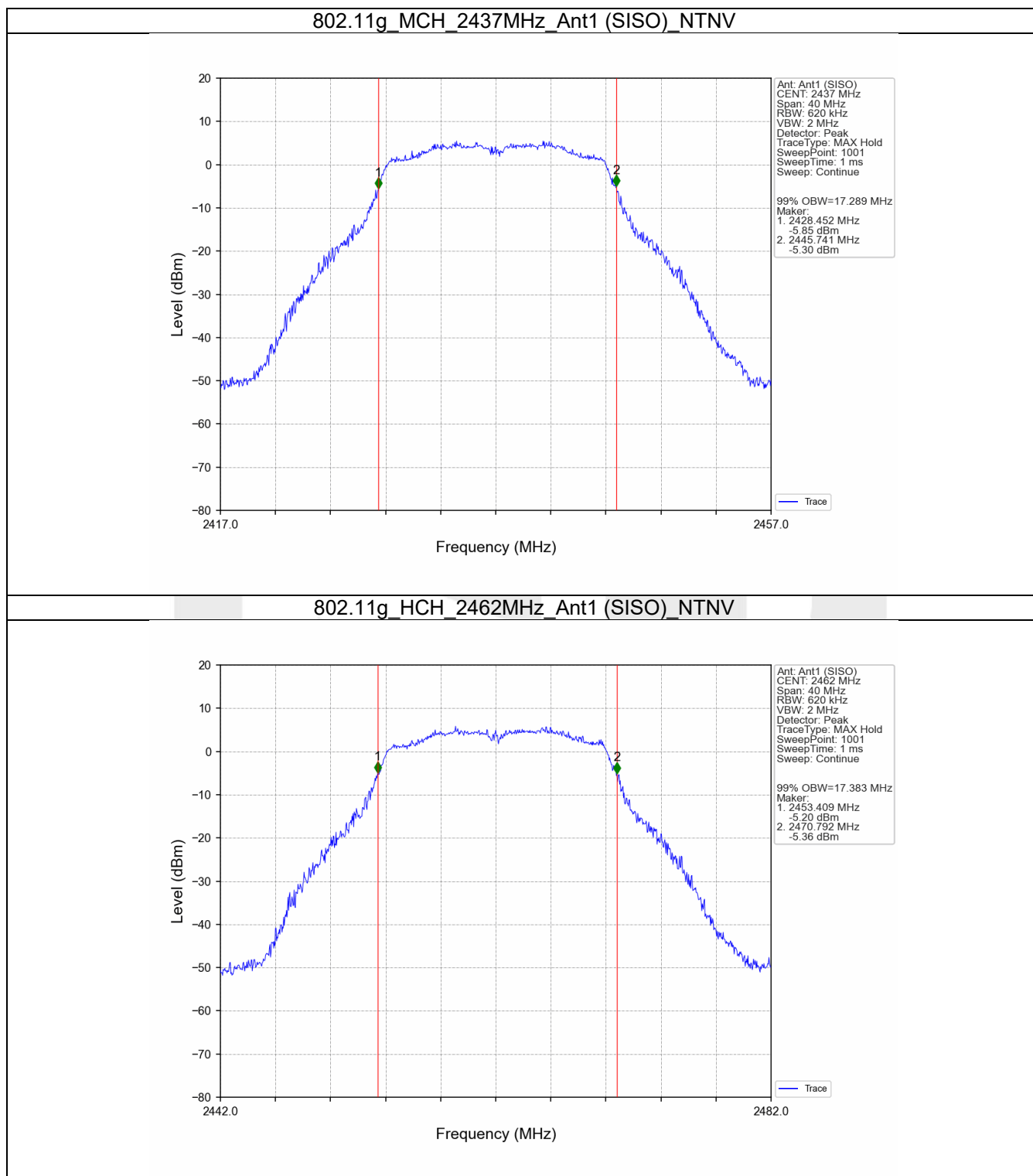
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.349	≥ 0.5	Pass
		2437	1	10.351	≥ 0.5	Pass
		2462	1	10.349	≥ 0.5	Pass
802.11g	SISO	2412	1	15.928	≥ 0.5	Pass
		2437	1	16.076	≥ 0.5	Pass
		2462	1	16.034	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.132	≥ 0.5	Pass
		2437	1	17.369	≥ 0.5	Pass
		2462	1	17.234	≥ 0.5	Pass

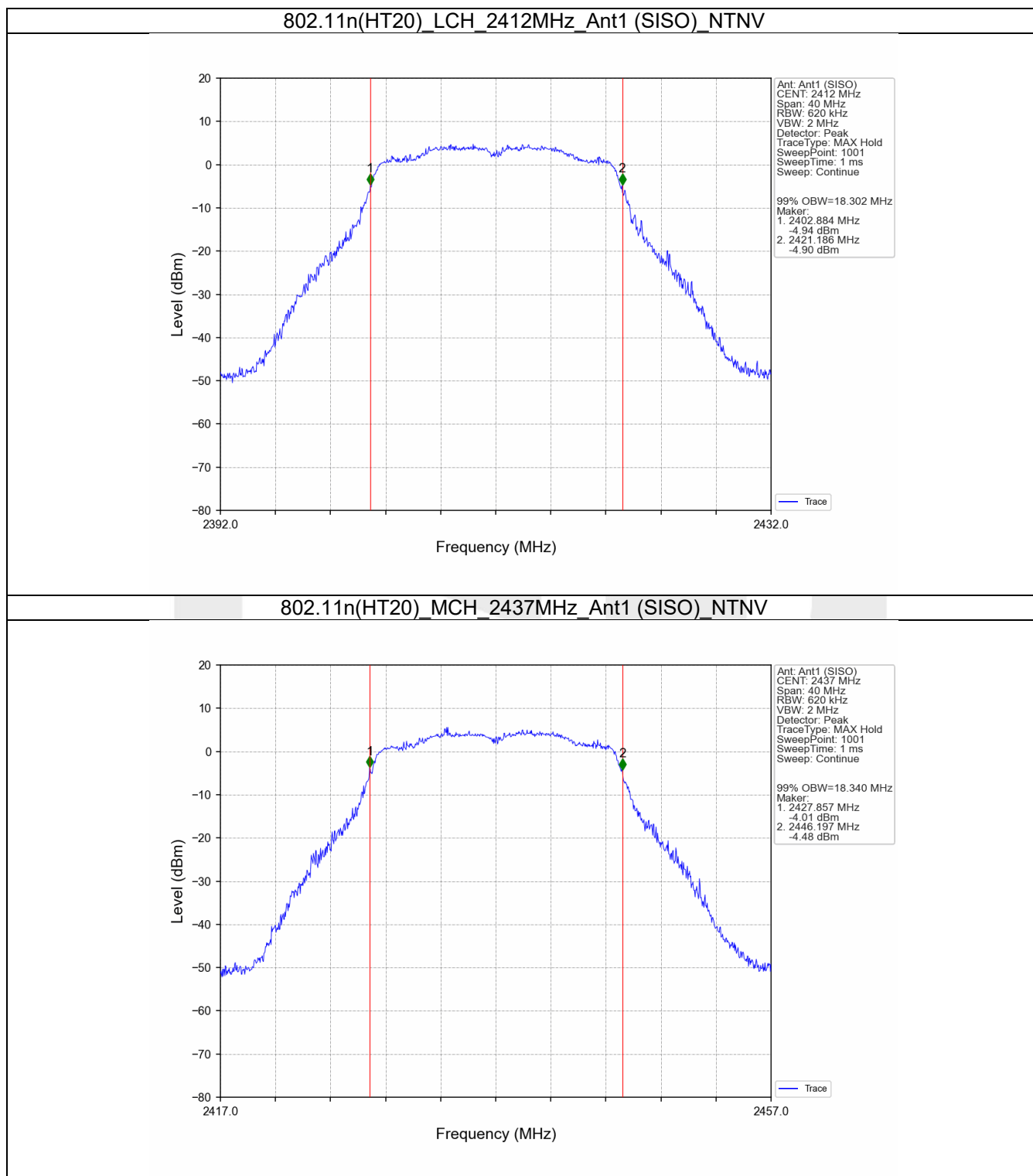
2.2 Test Graph

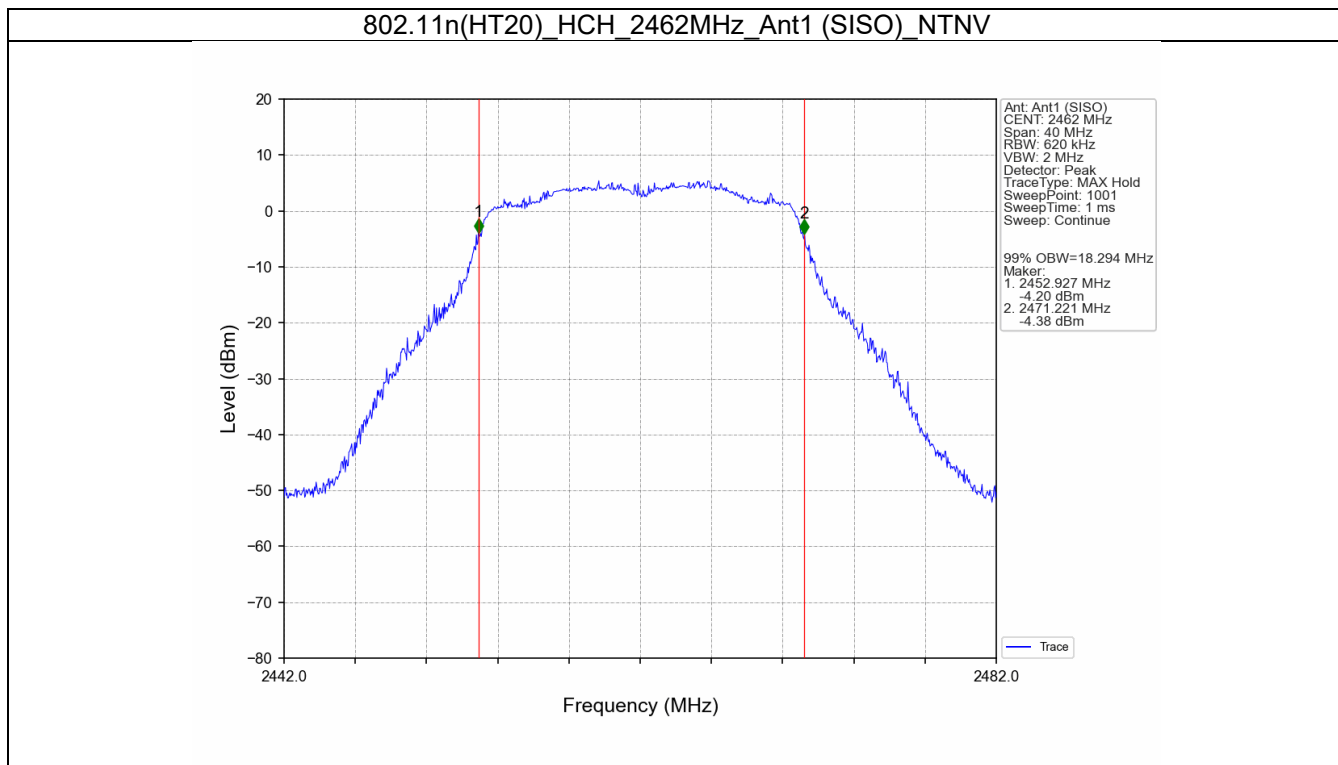
2.2.1 OBW



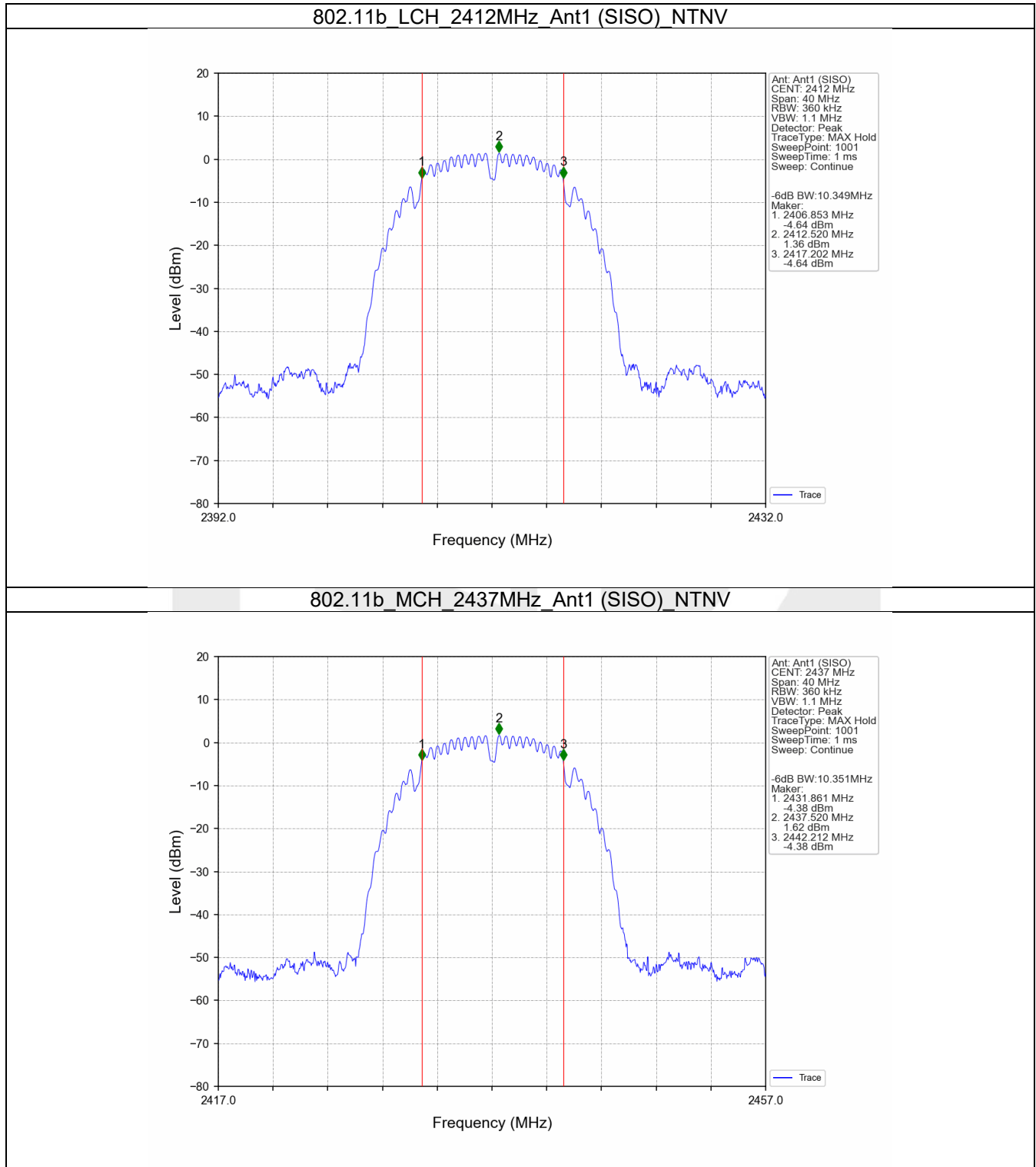




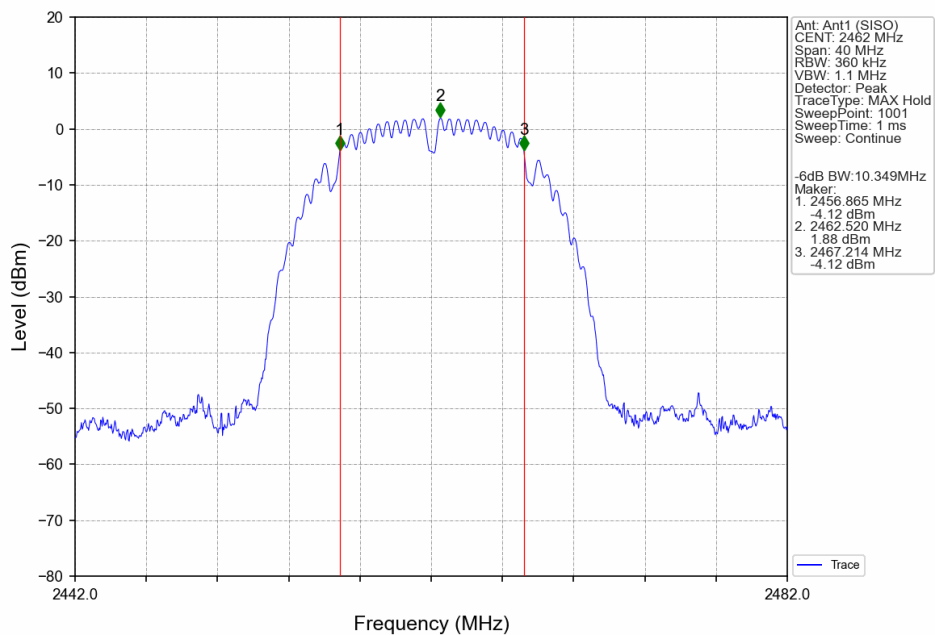




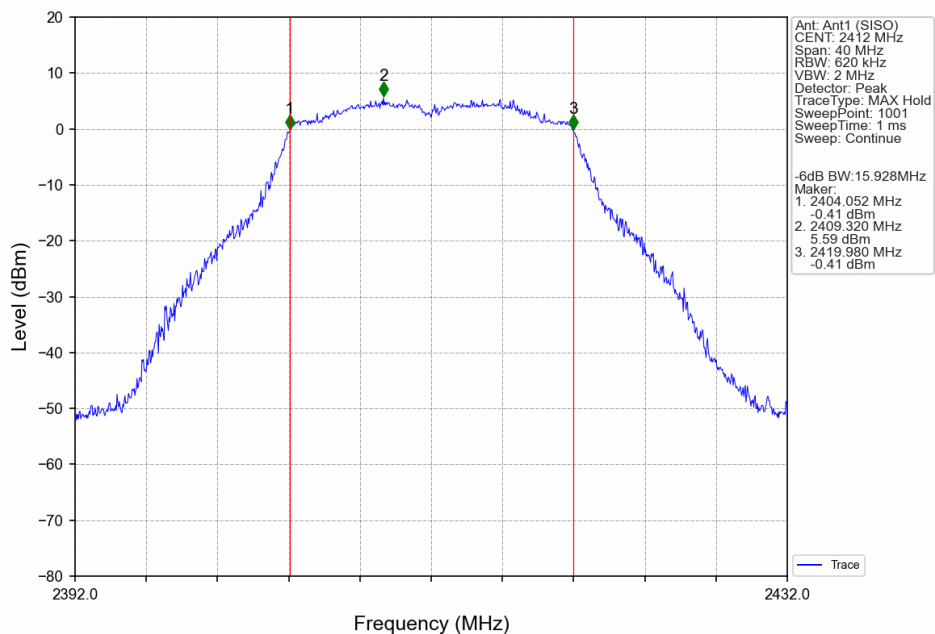
2.2.2 6dB BW

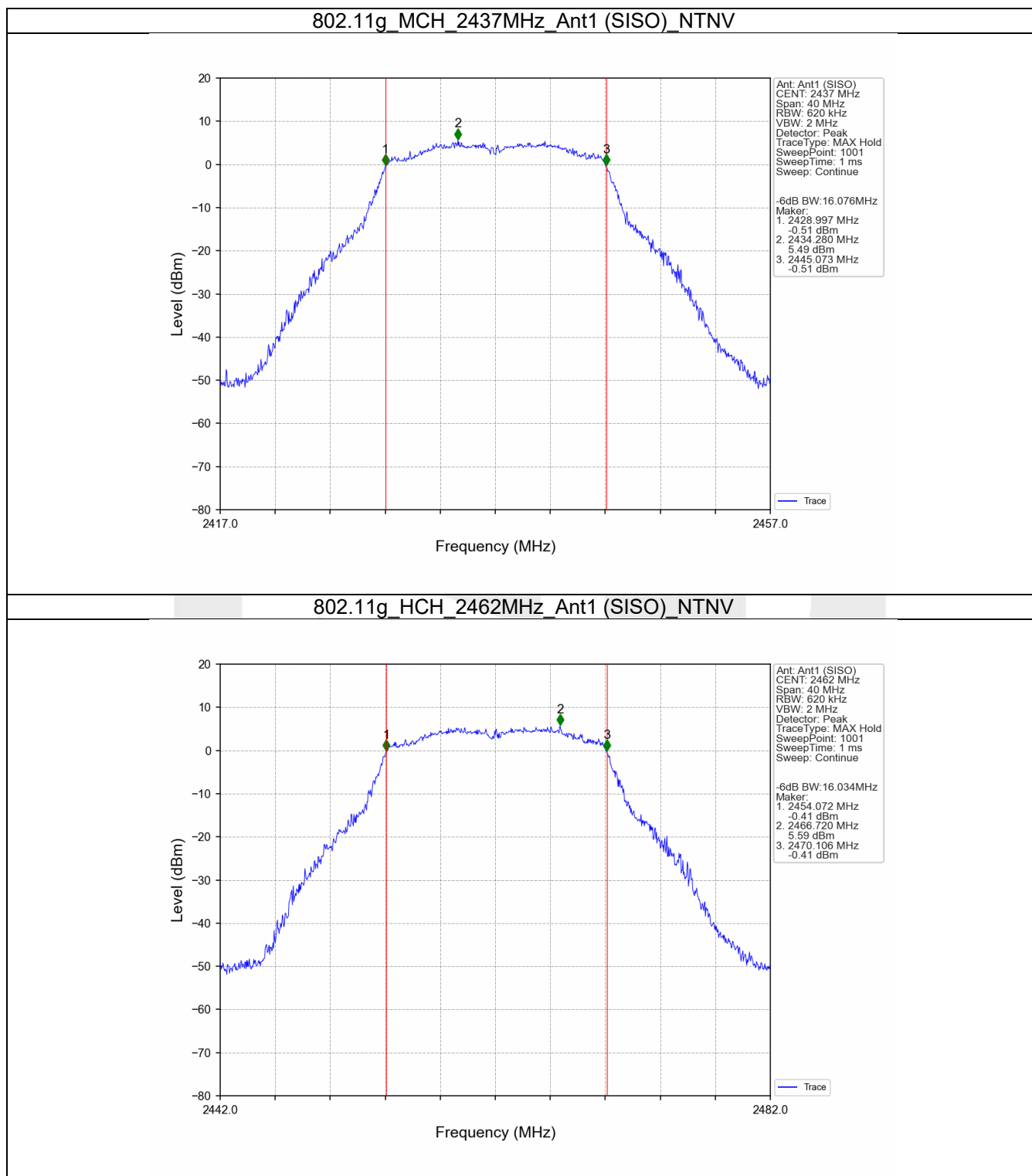


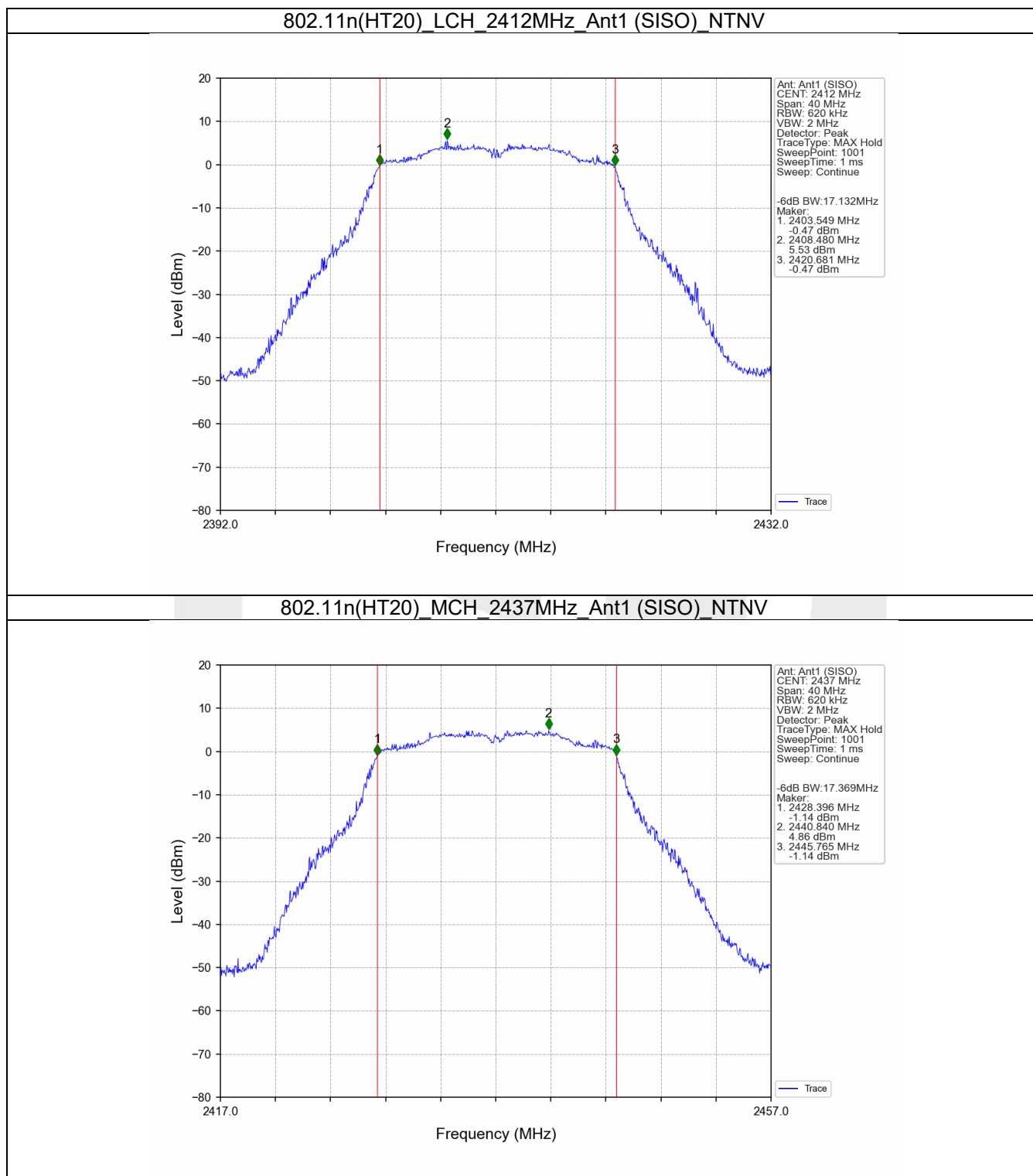
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

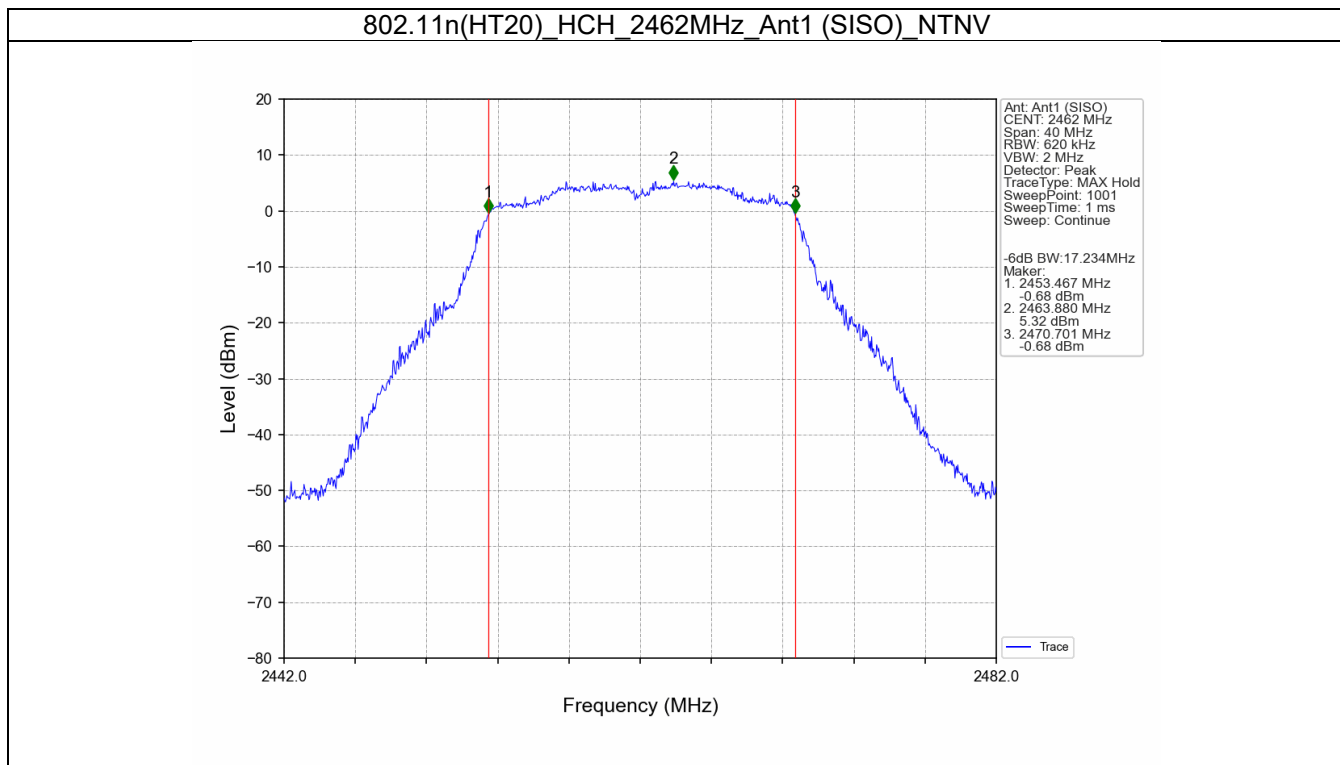


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV









3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	12.93	<=30	Pass
		2437	13.16	<=30	Pass
		2462	13.51	<=30	Pass
802.11g	SISO	2412	18.01	<=30	Pass
		2437	18.11	<=30	Pass
		2462	18.27	<=30	Pass
802.11n (HT20)	SISO	2412	17.79	<=30	Pass
		2437	17.94	<=30	Pass
		2462	18.23	<=30	Pass

4. Maximum Power Spectral Density

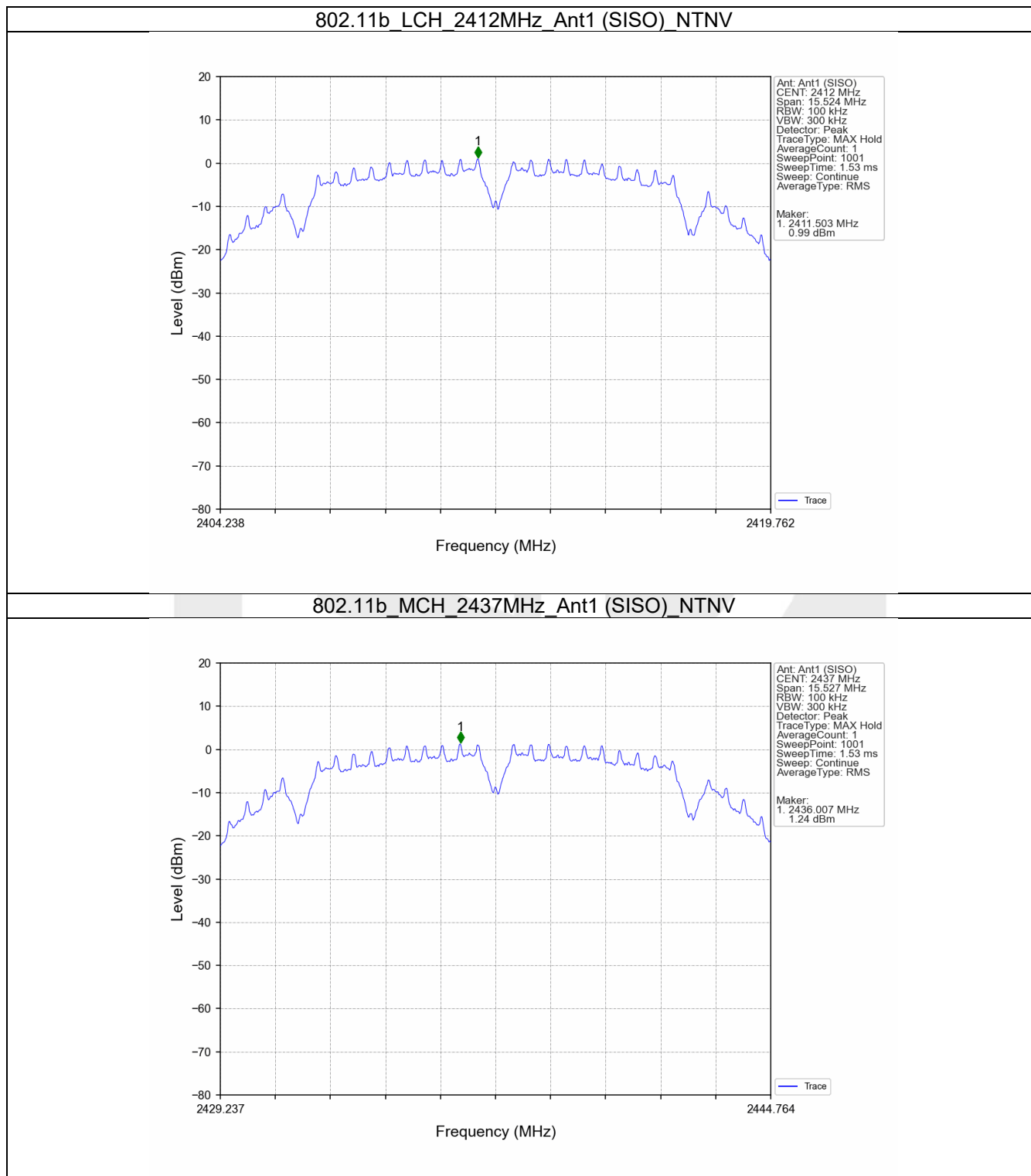
4.1 Test Result

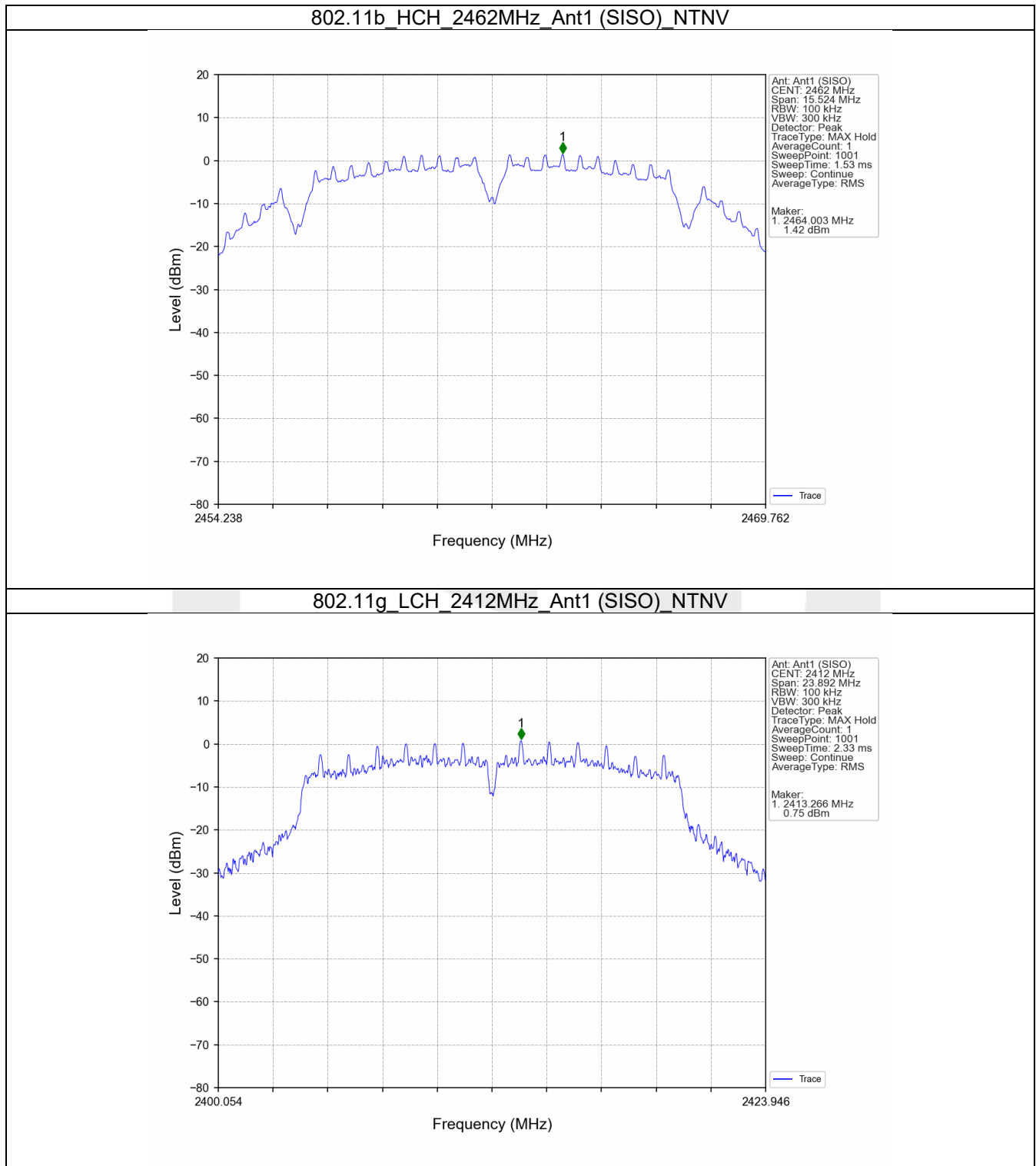
4.1.1 PSD

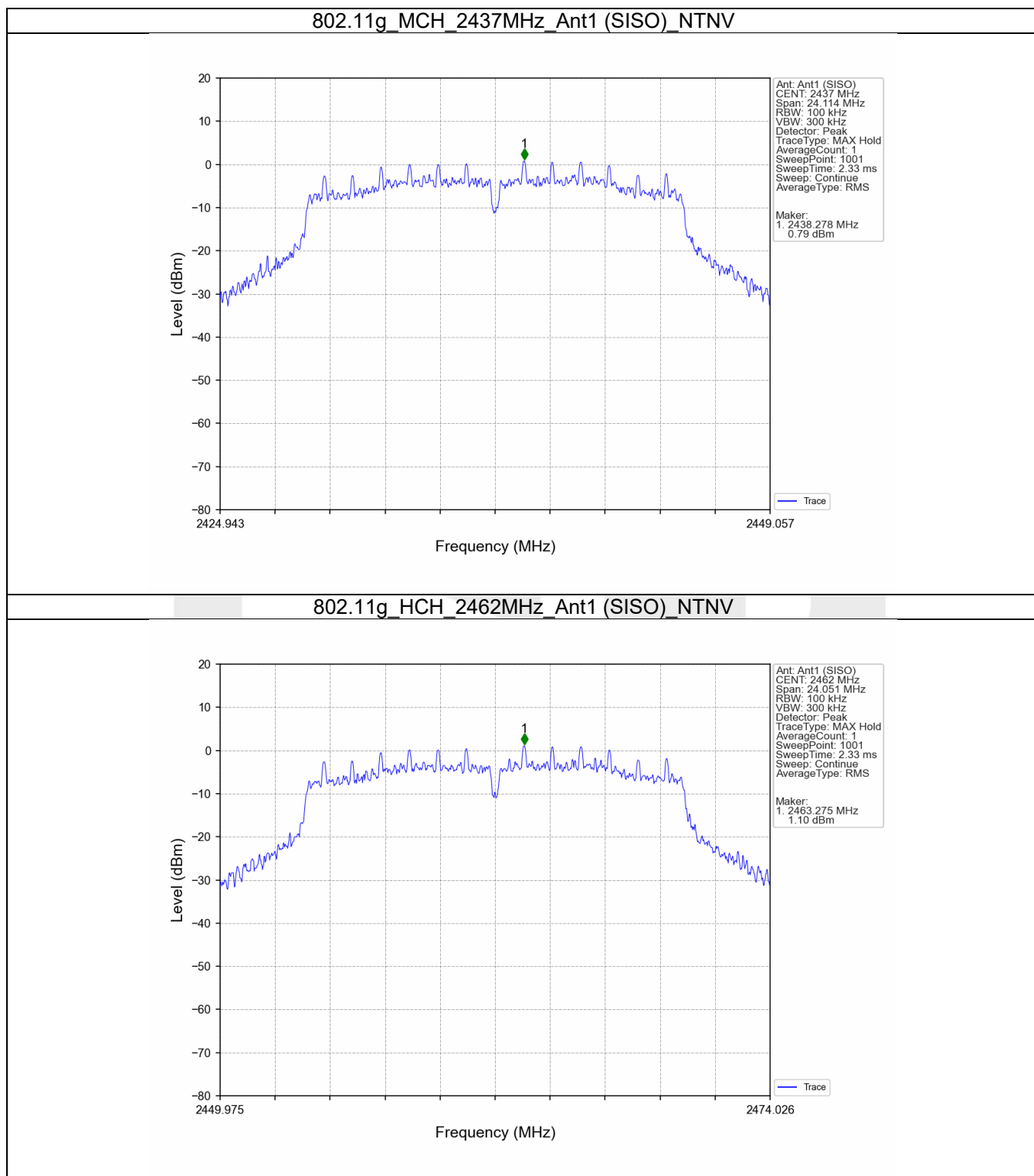
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	0.99	≤ 8	Pass
		2437	1.24	≤ 8	Pass
		2462	1.42	≤ 8	Pass
802.11g	SISO	2412	0.75	≤ 8	Pass
		2437	0.79	≤ 8	Pass
		2462	1.10	≤ 8	Pass
802.11n (HT20)	SISO	2412	0.62	≤ 8	Pass
		2437	0.76	≤ 8	Pass
		2462	1.08	≤ 8	Pass

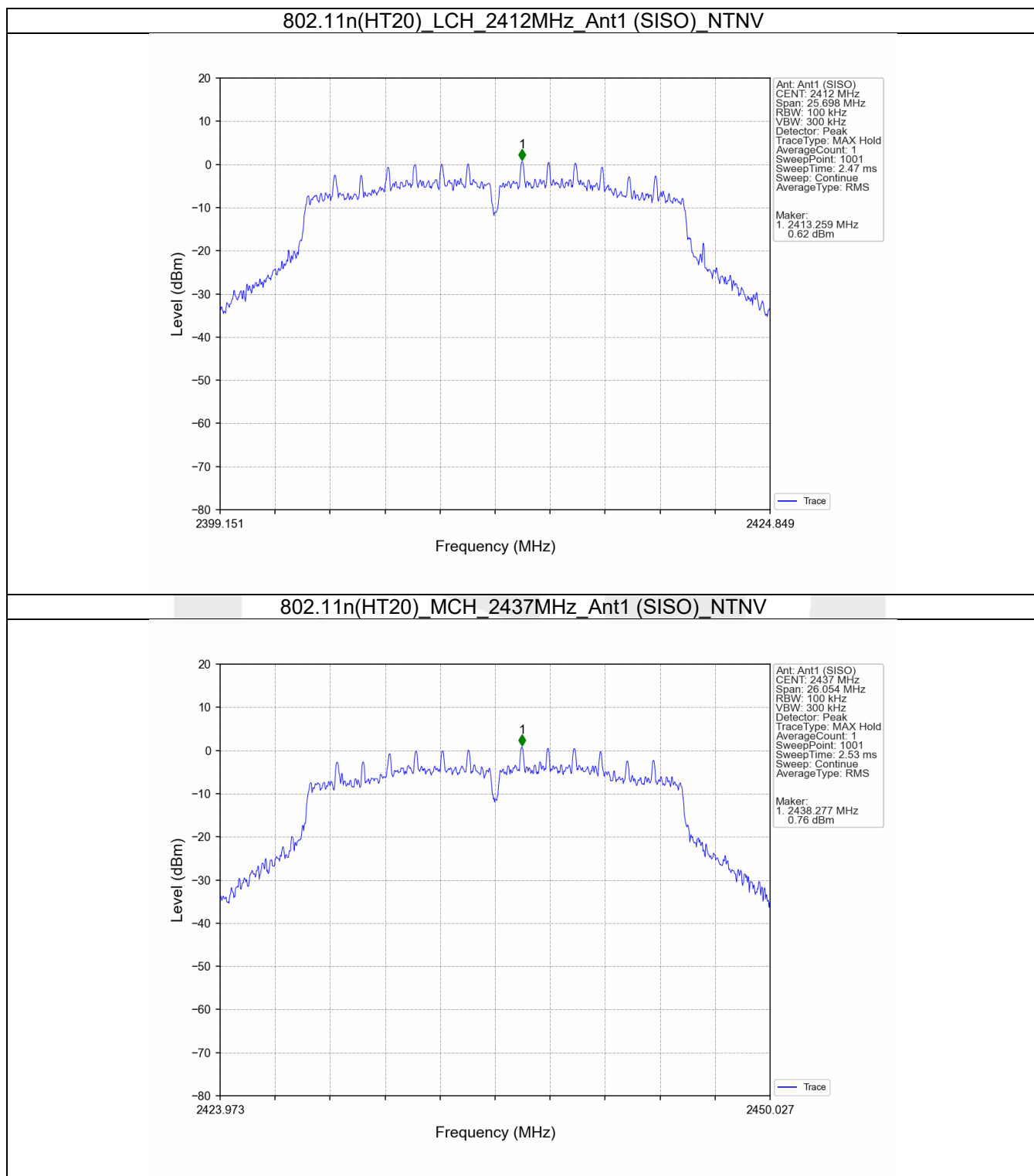
4.2 Test Graph

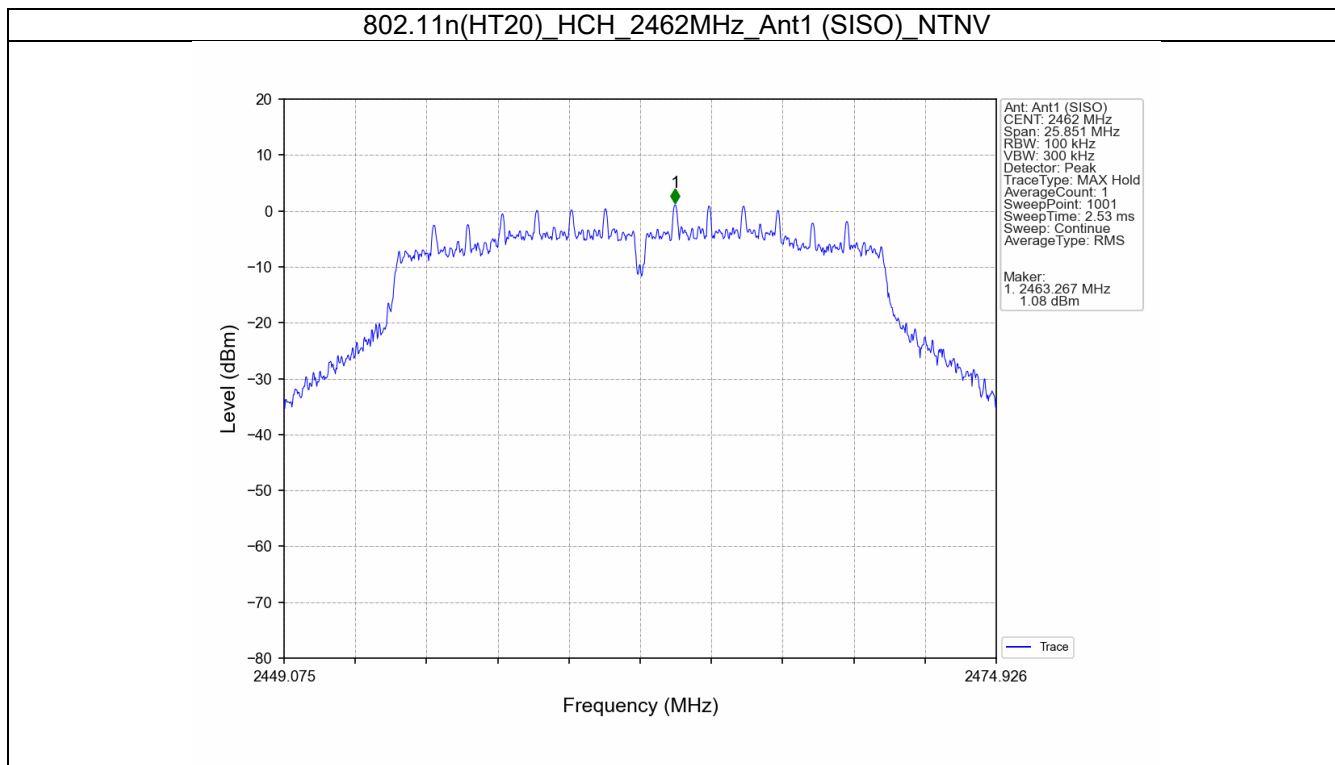
4.2.1 PSD











5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	1.00
		2437	1	1.06
		2462	1	1.53
802.11g	SISO	2412	1	0.69
		2437	1	0.78
		2462	1	1.13
802.11n (HT20)	SISO	2412	1	0.62
		2437	1	0.74
		2462	1	1.09

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.

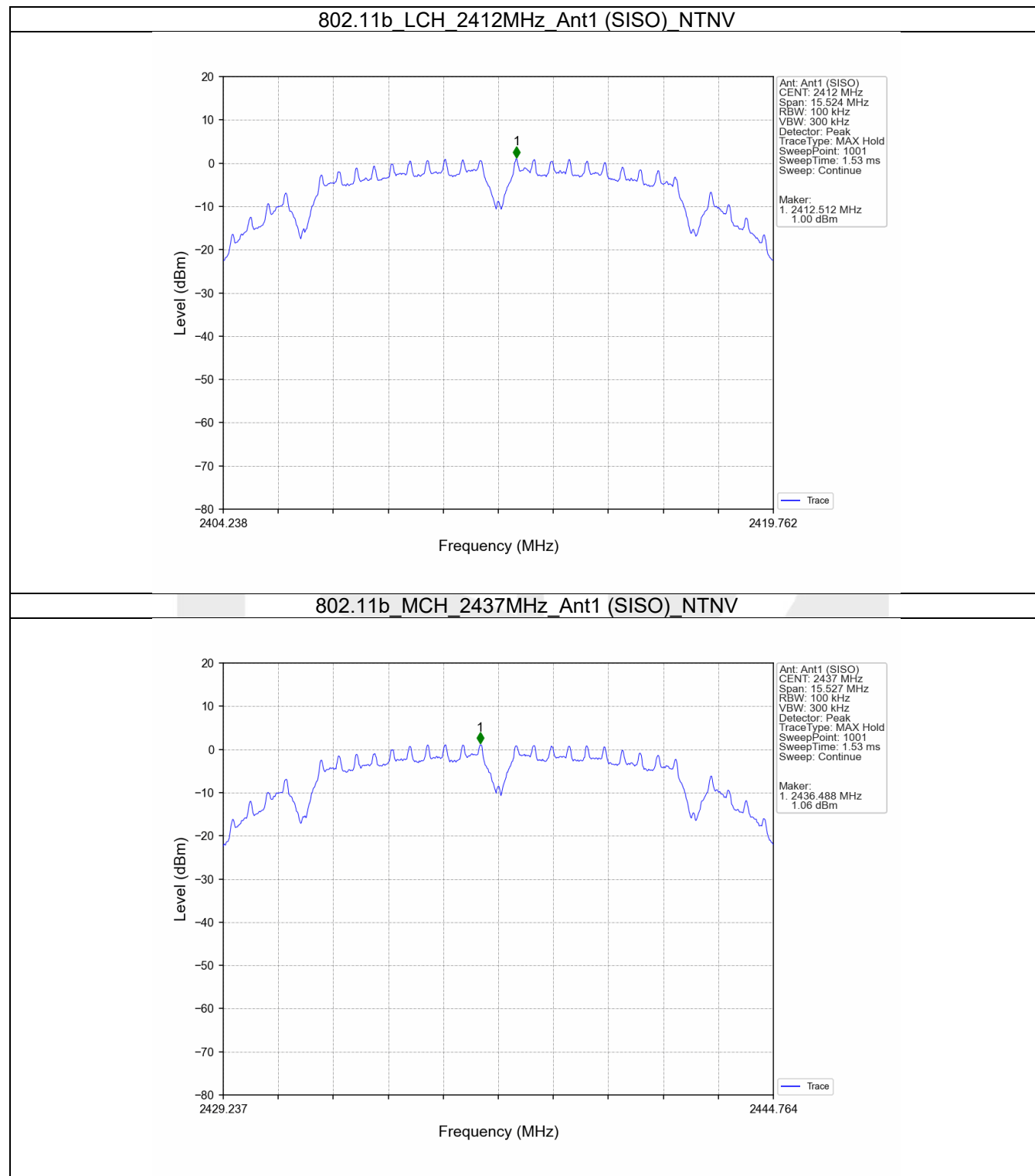
5.1.2 CSE

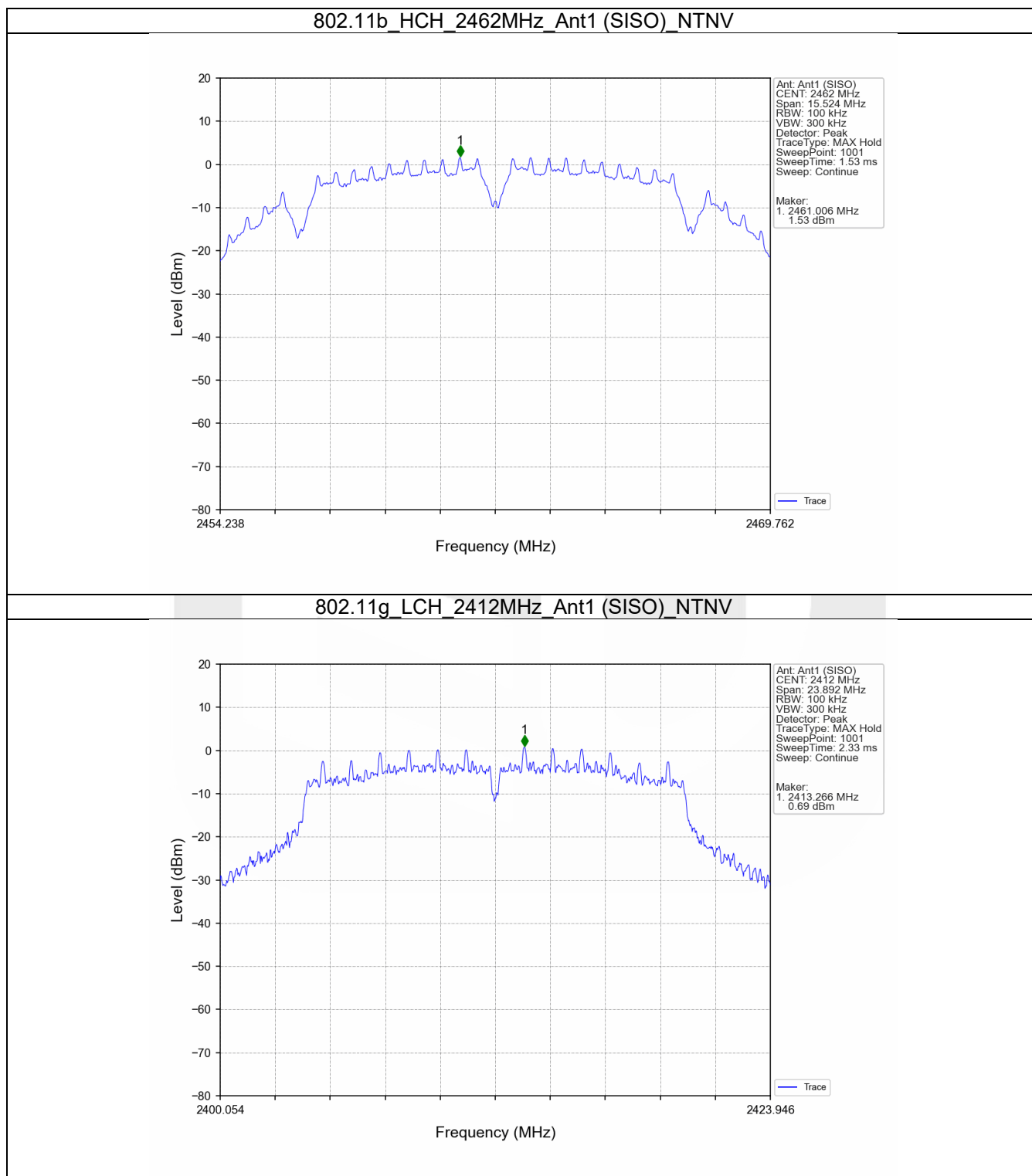
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	1.00	-19.00	Pass
		2437	1	1.06	-18.94	Pass
		2462	1	1.53	-18.47	Pass
802.11g	SISO	2412	1	0.69	-19.31	Pass
		2437	1	0.78	-19.22	Pass
		2462	1	1.13	-18.87	Pass
802.11n (HT20)	SISO	2412	1	0.62	-19.38	Pass
		2437	1	0.74	-19.26	Pass
		2462	1	1.09	-18.91	Pass

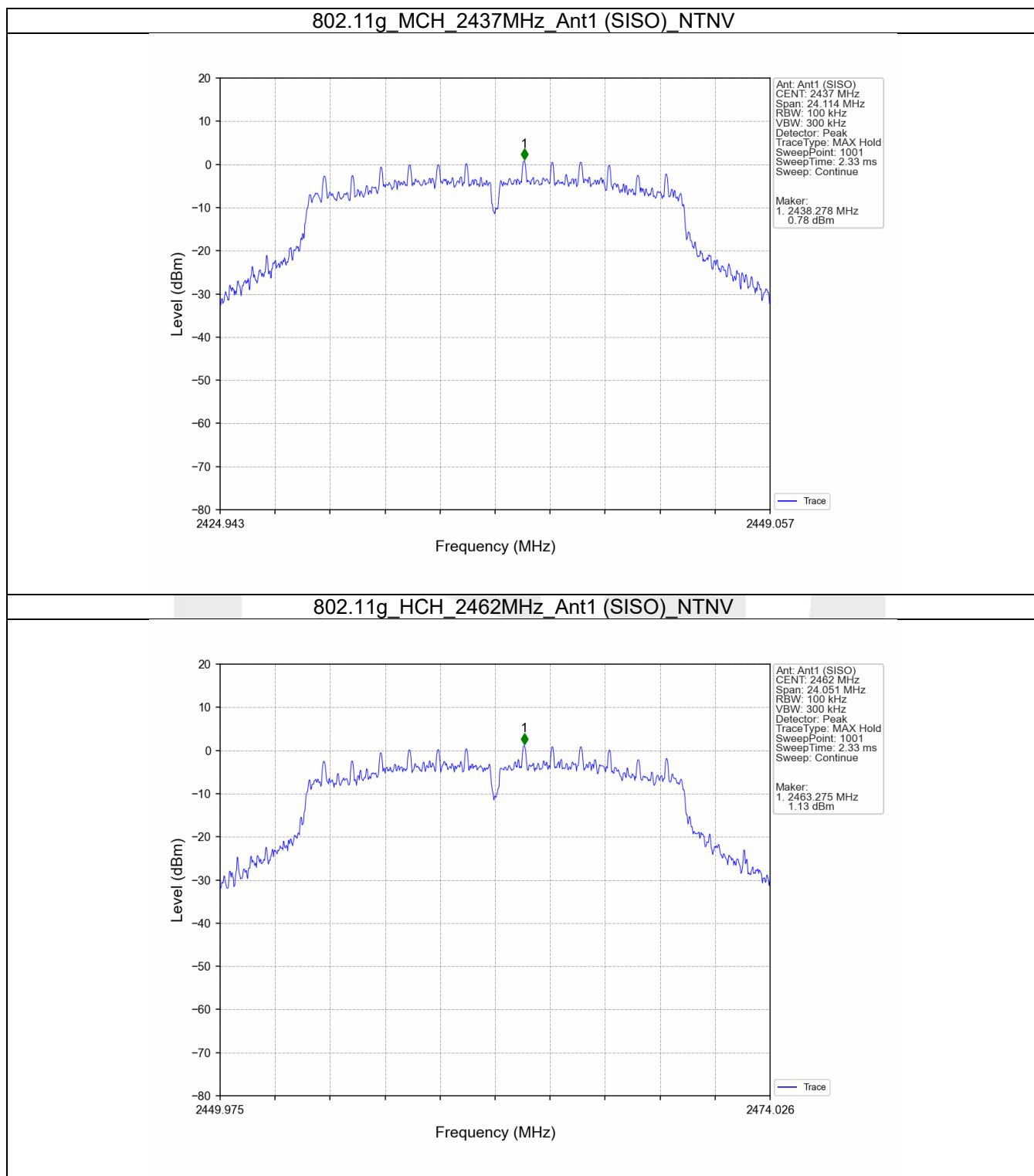
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

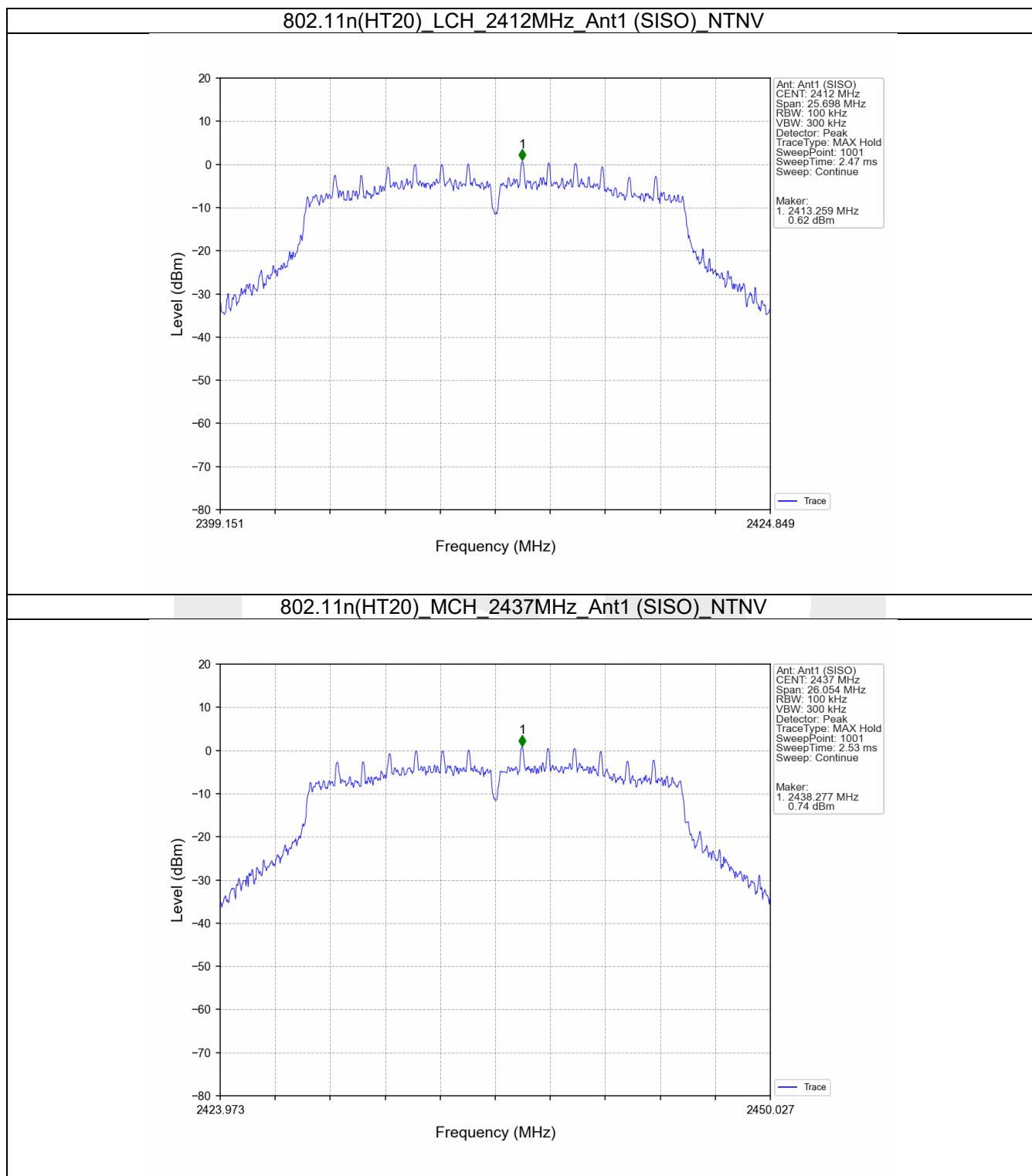
5.2 Test Graph

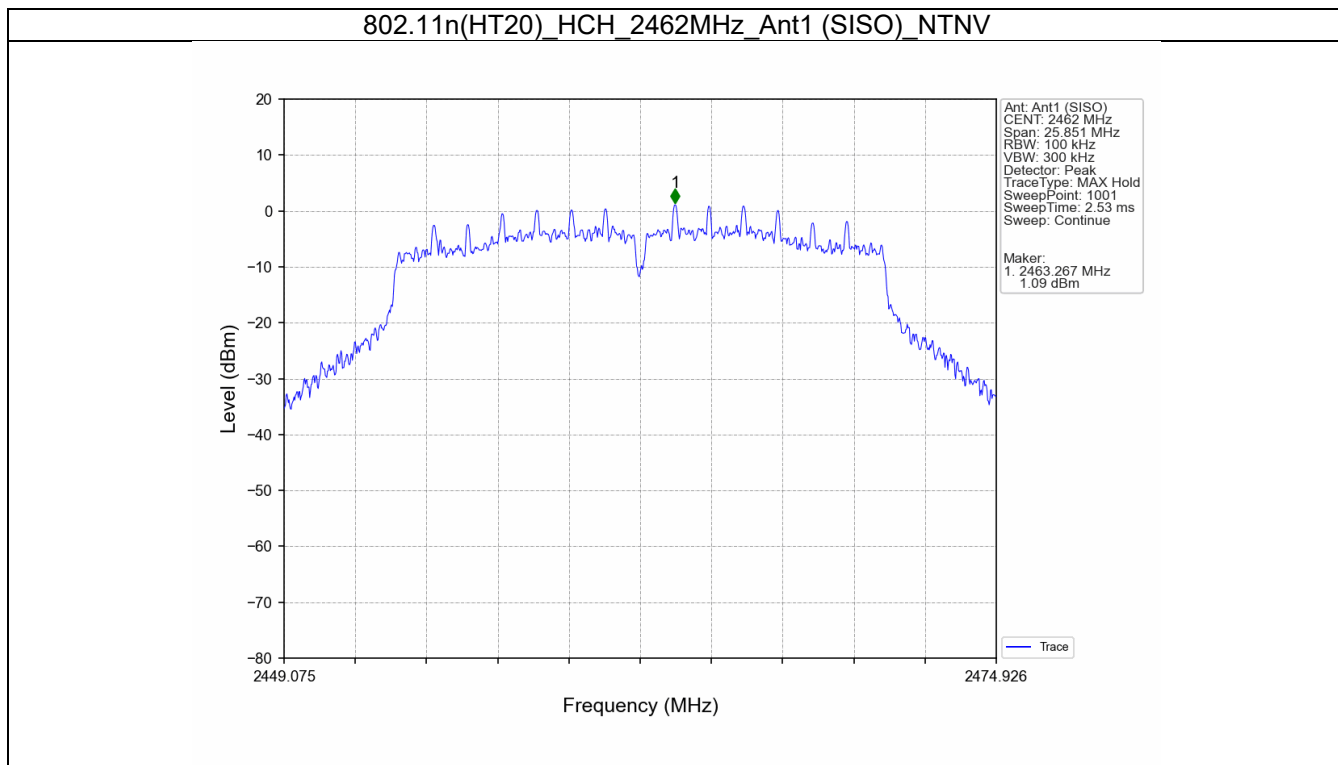
5.2.1 Ref



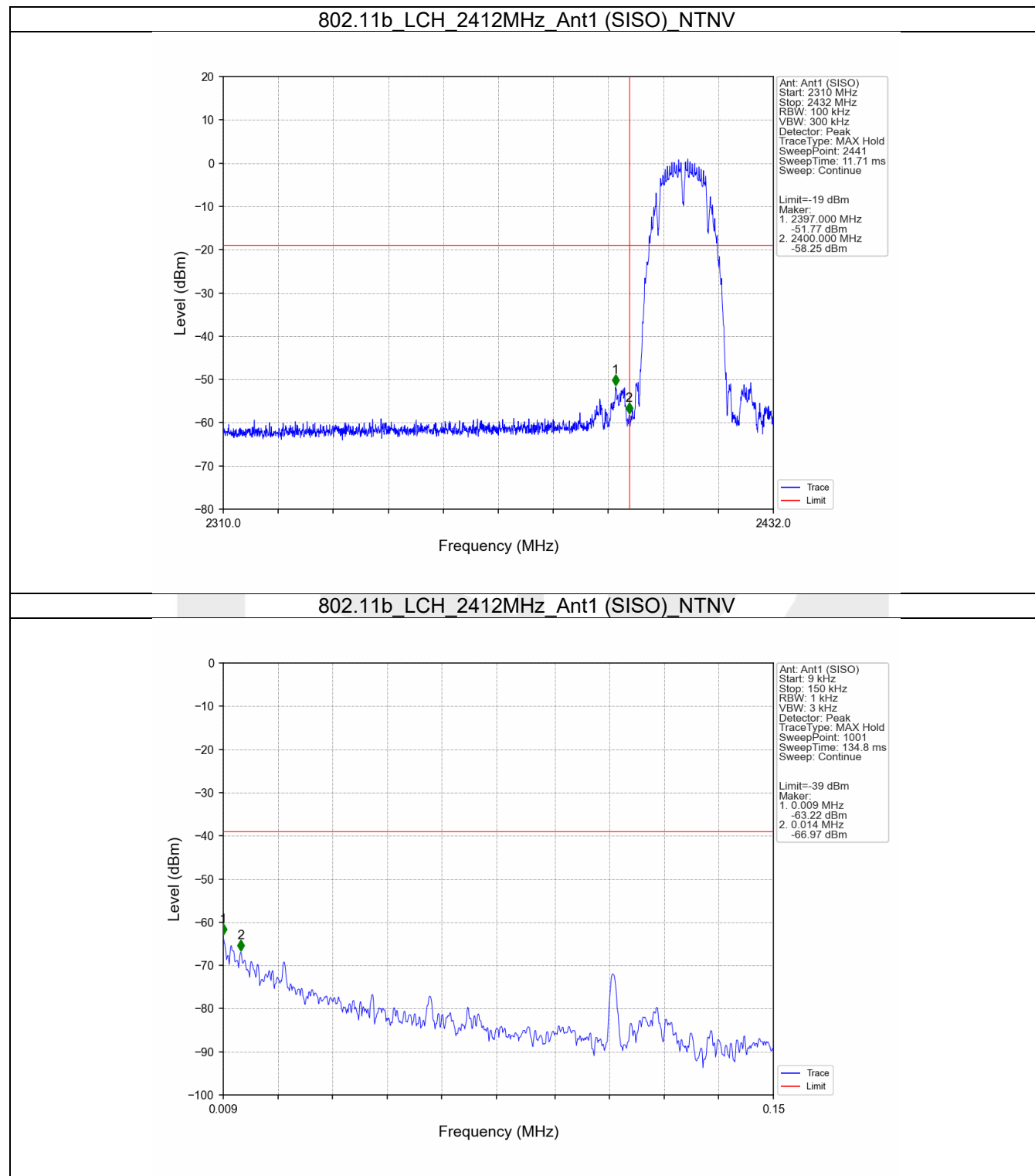


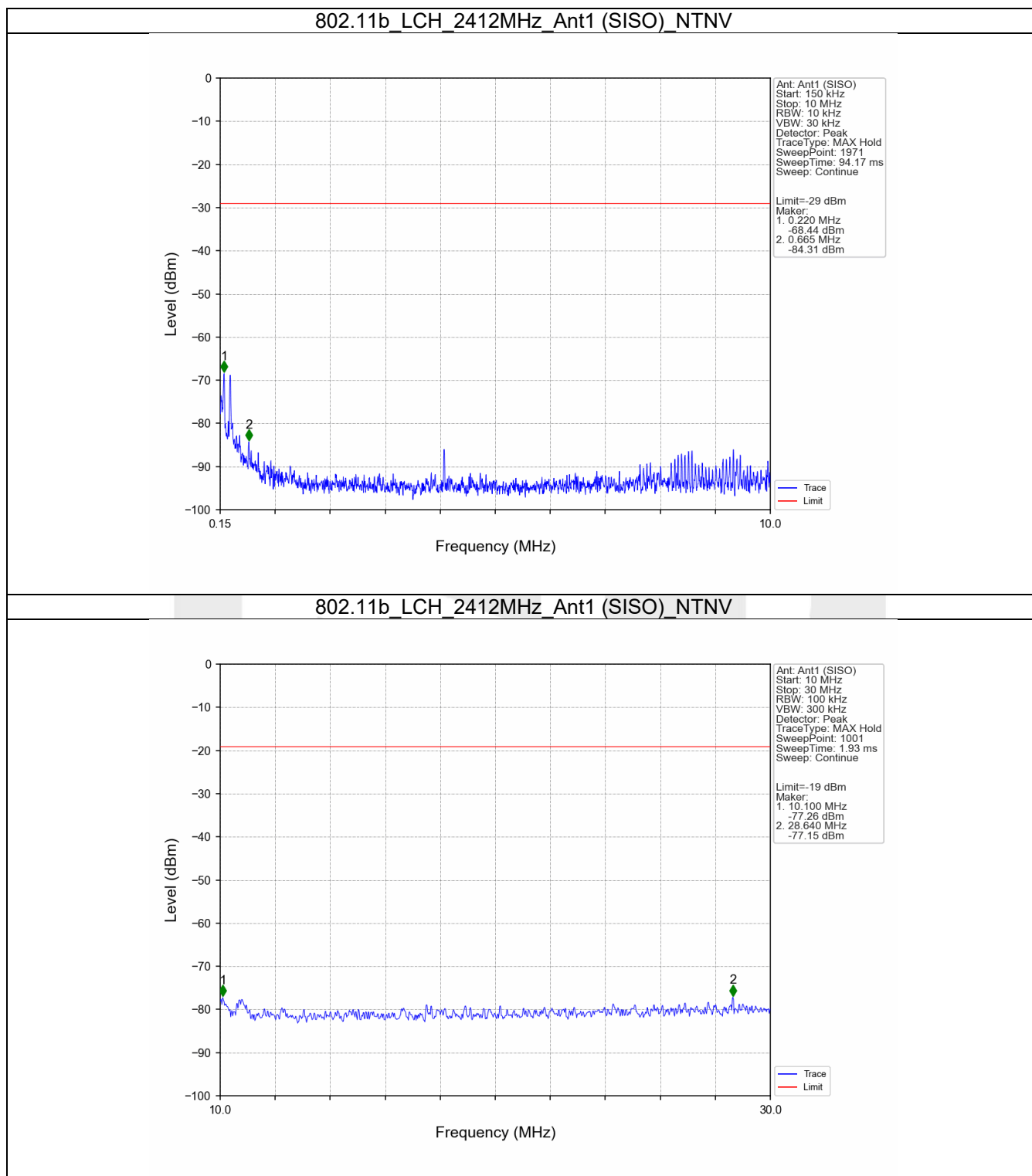


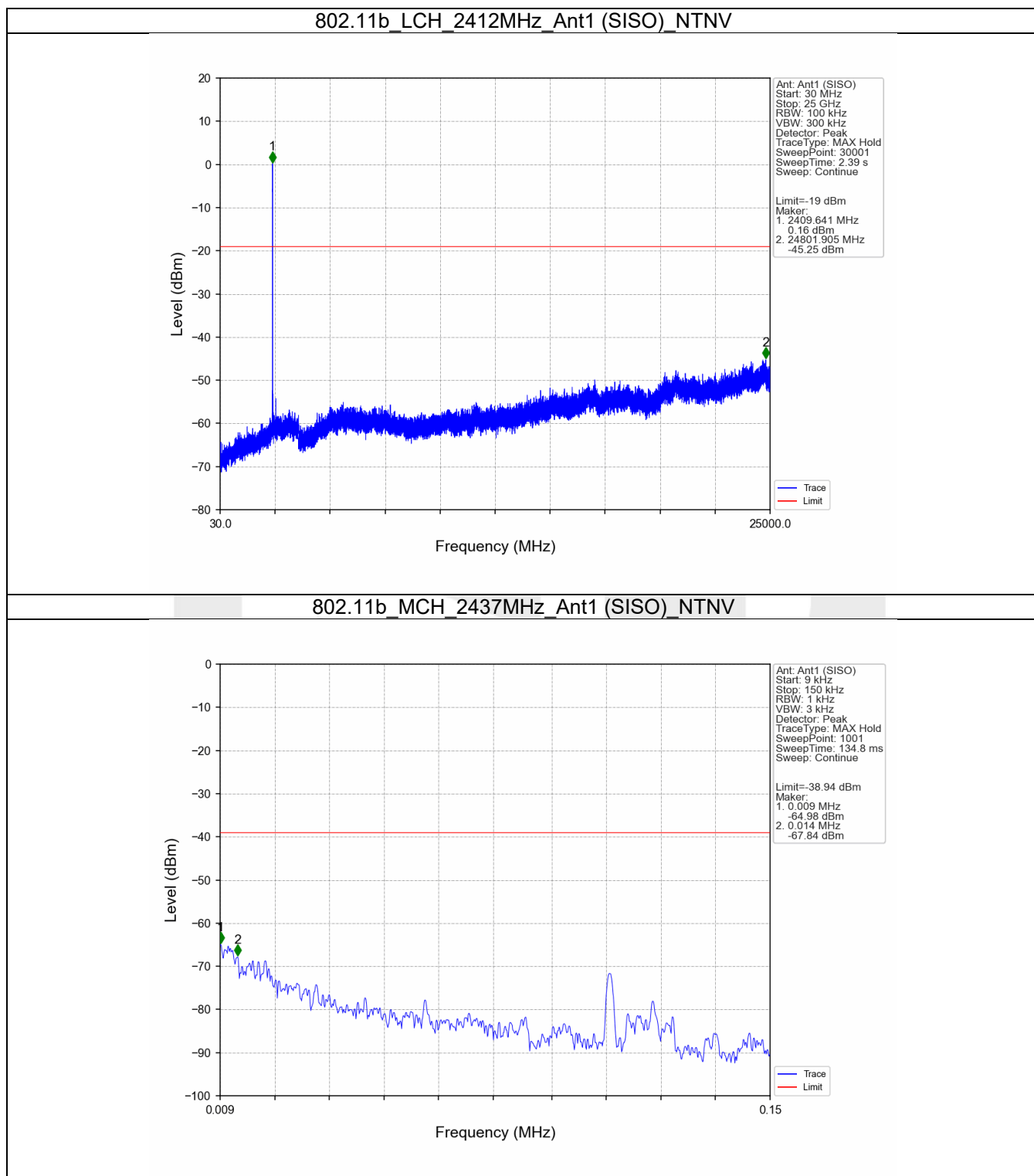


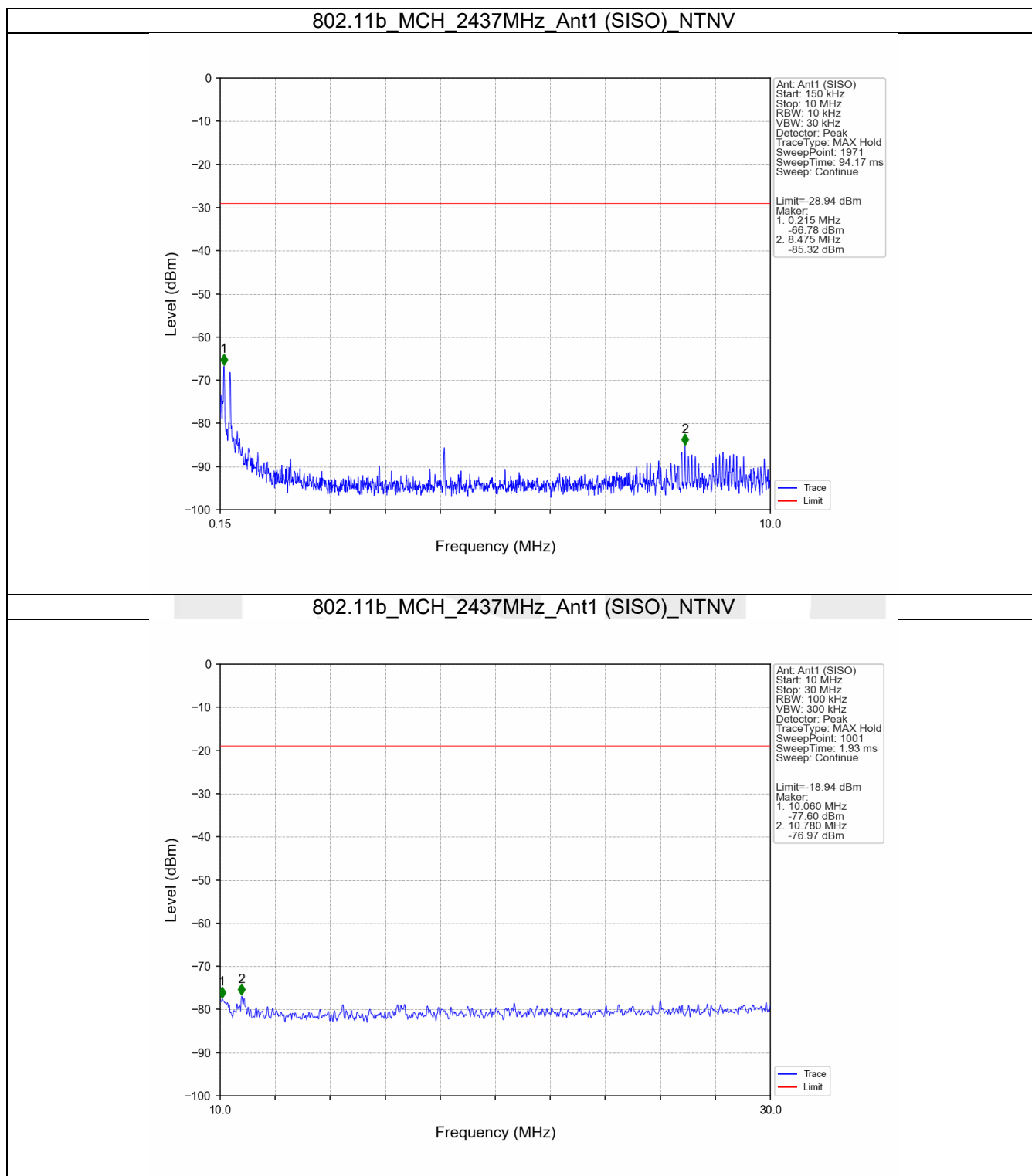


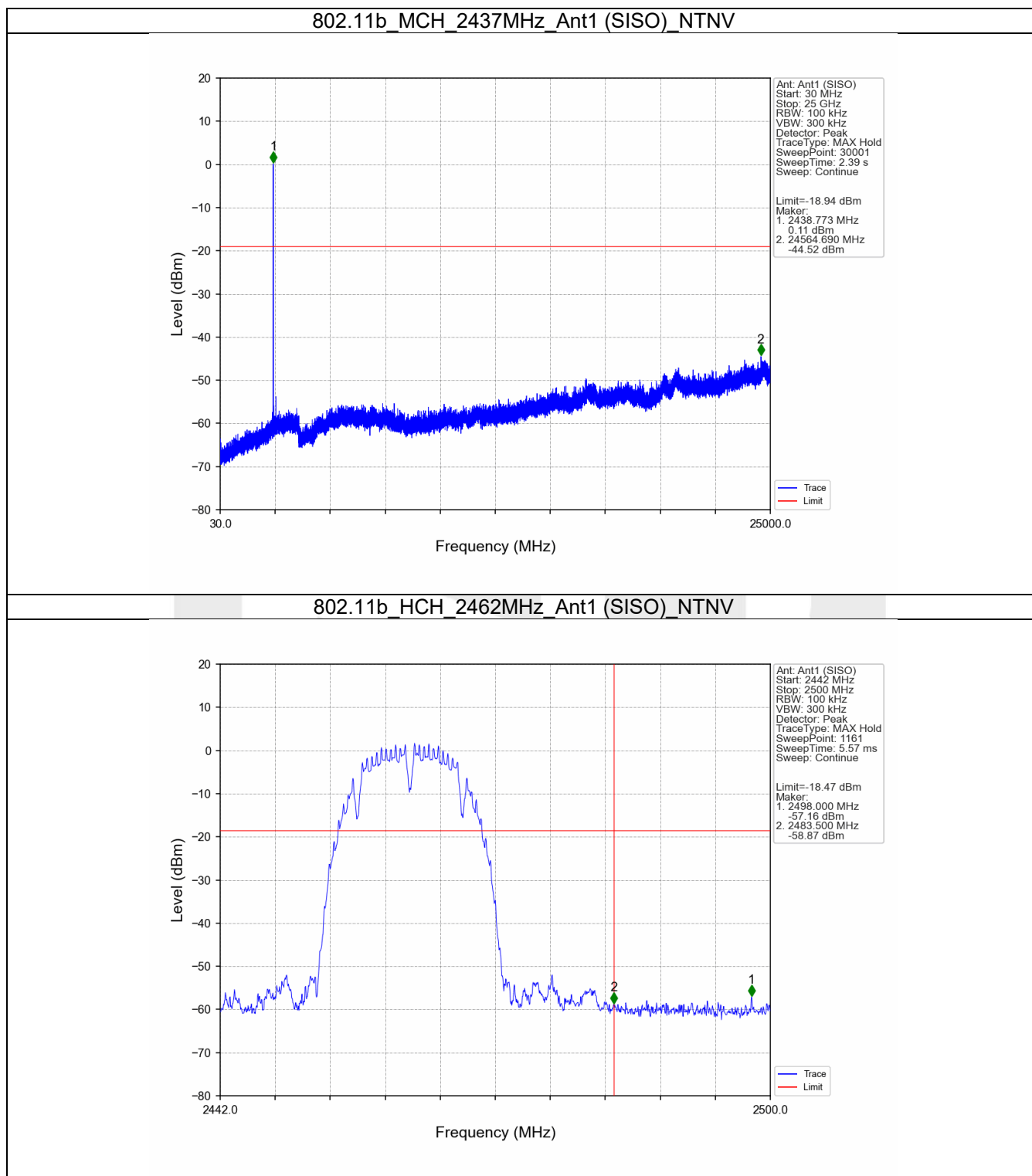
5.2.2 CSE

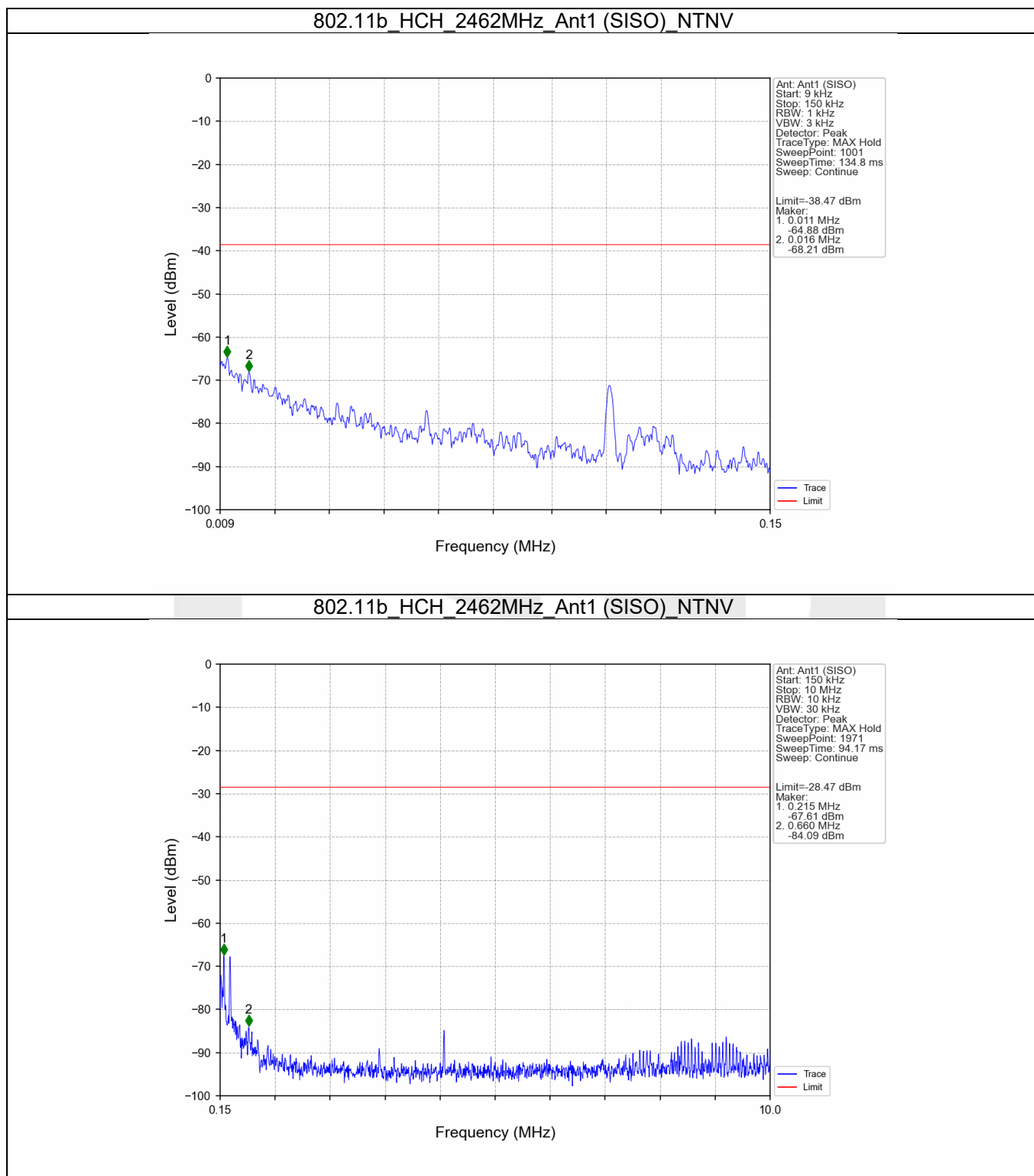


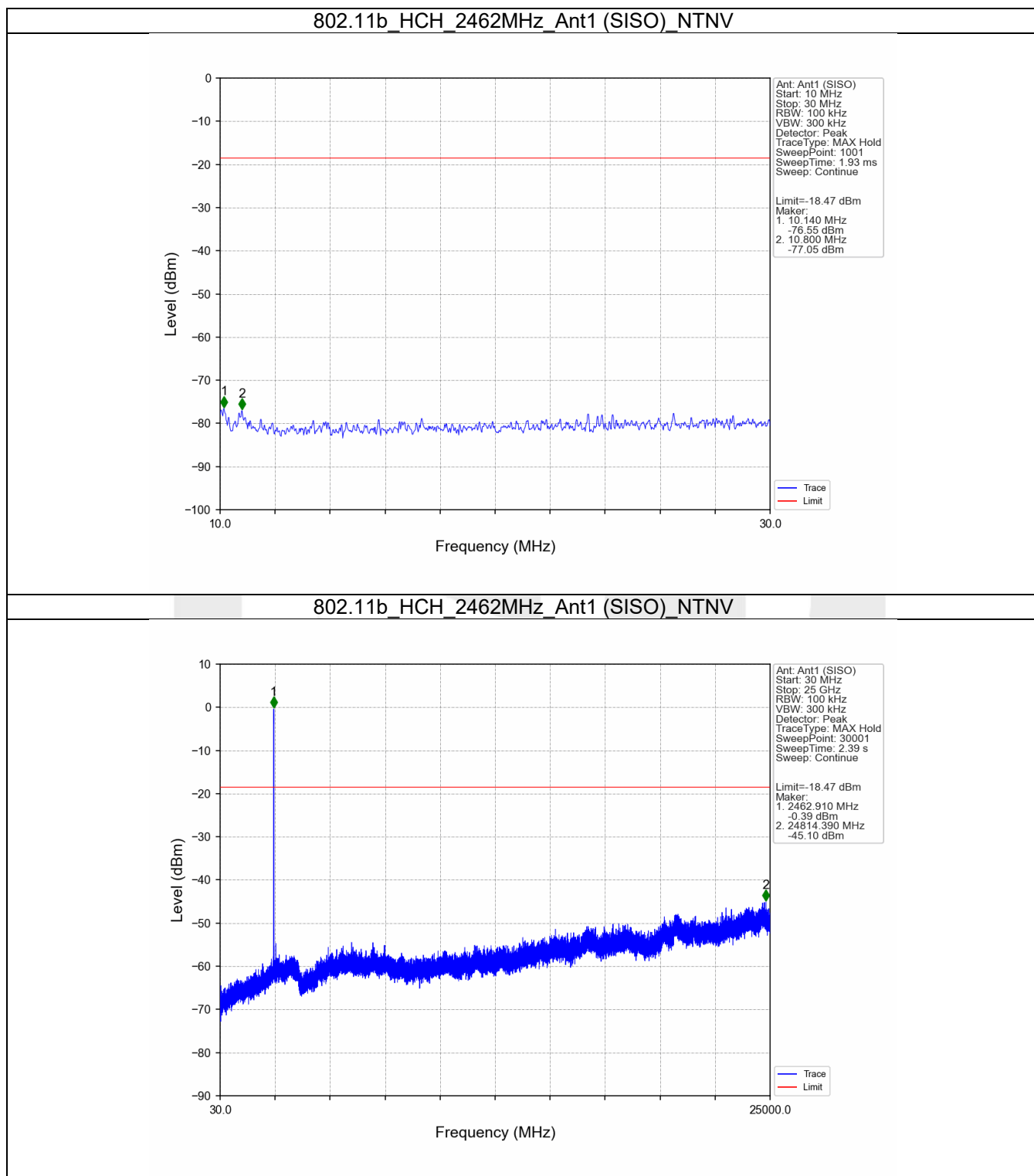


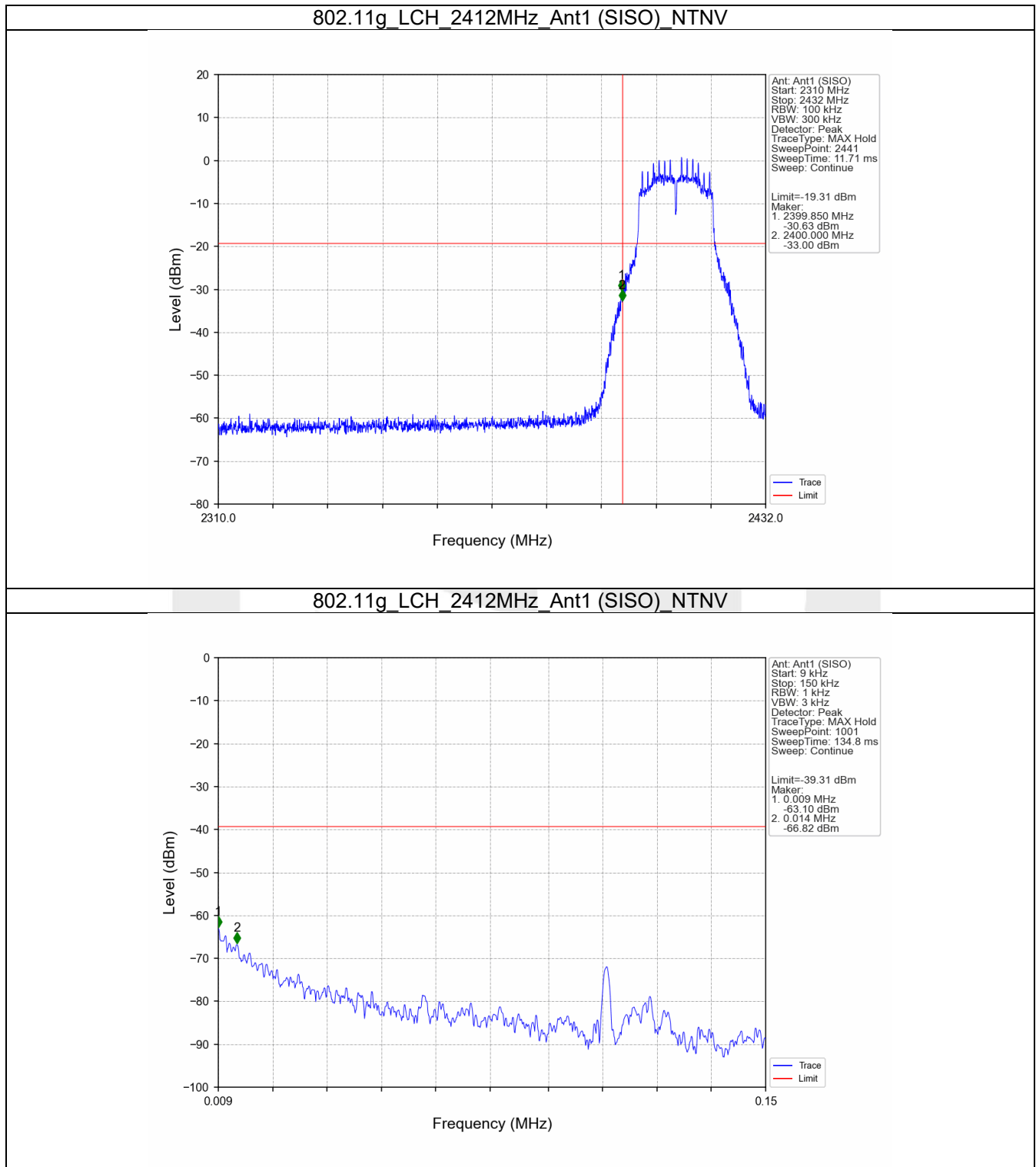


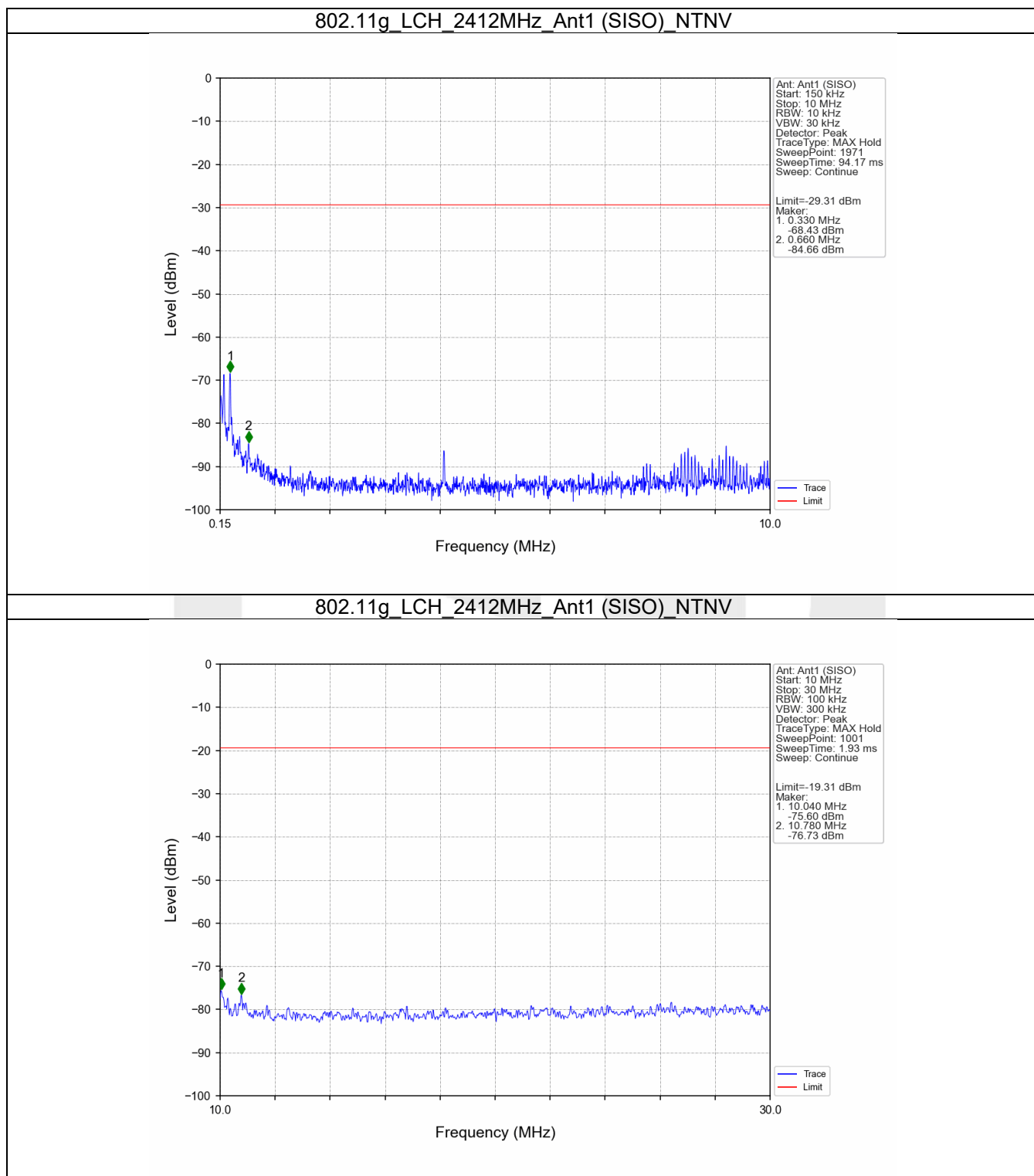


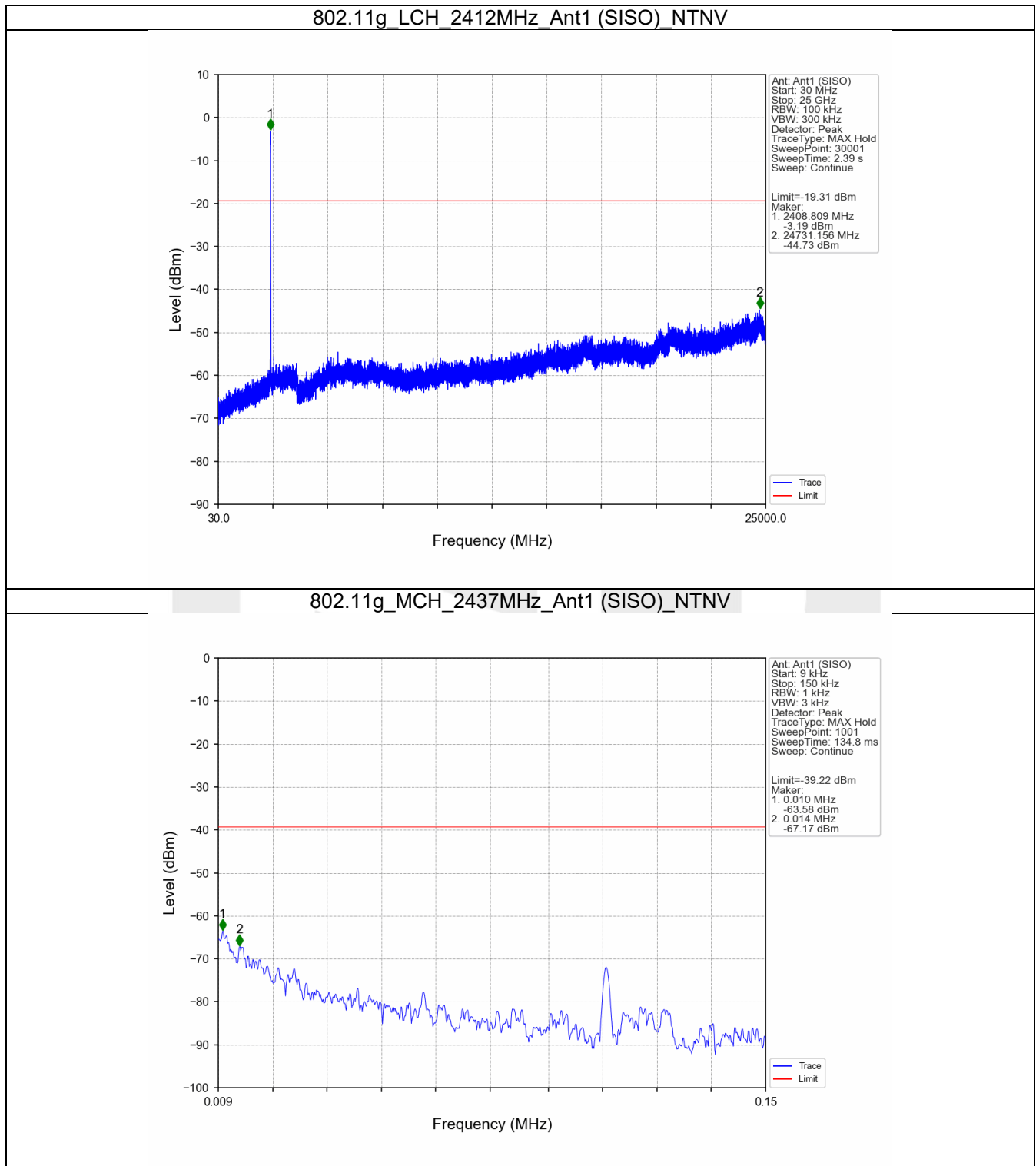


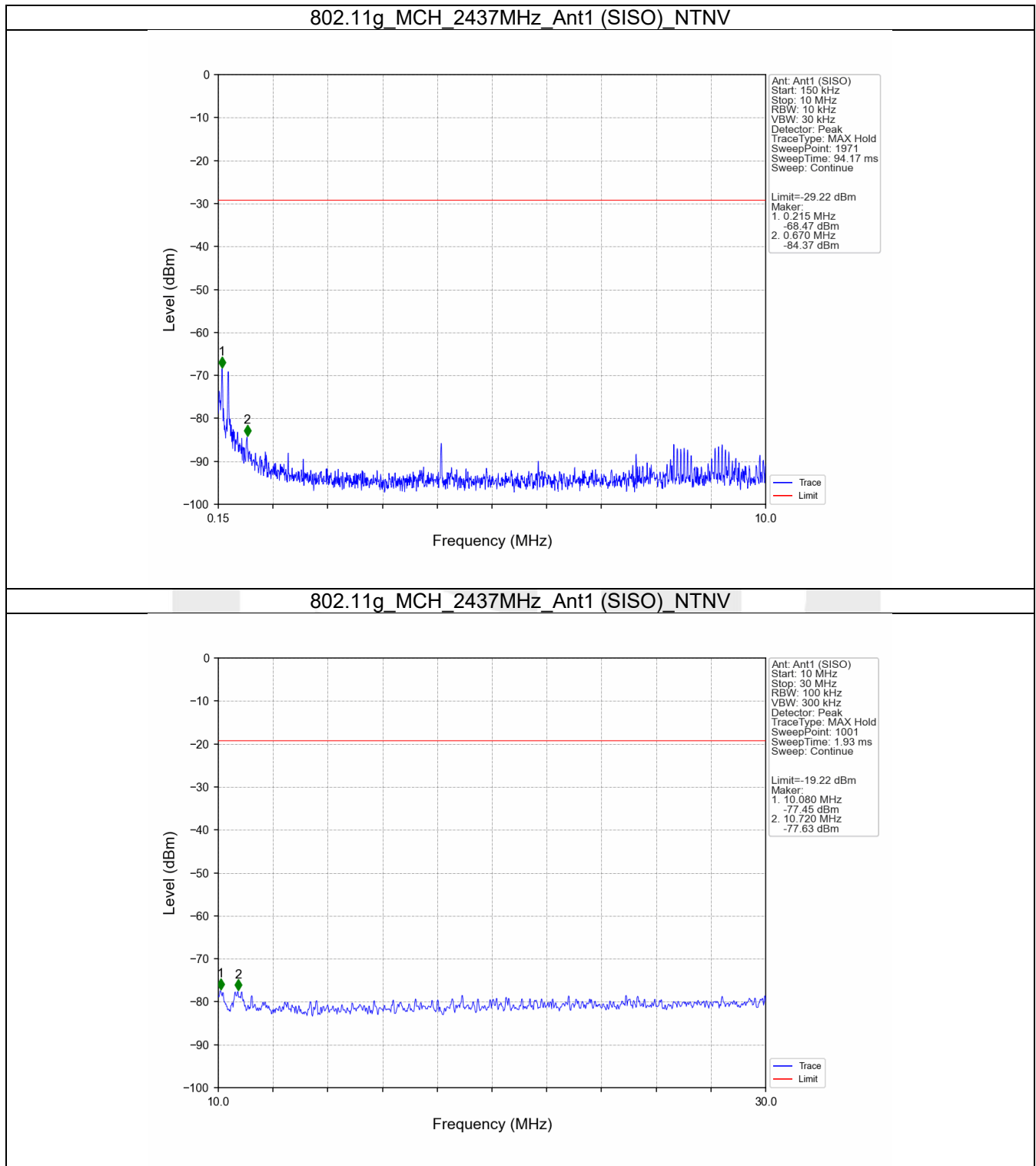


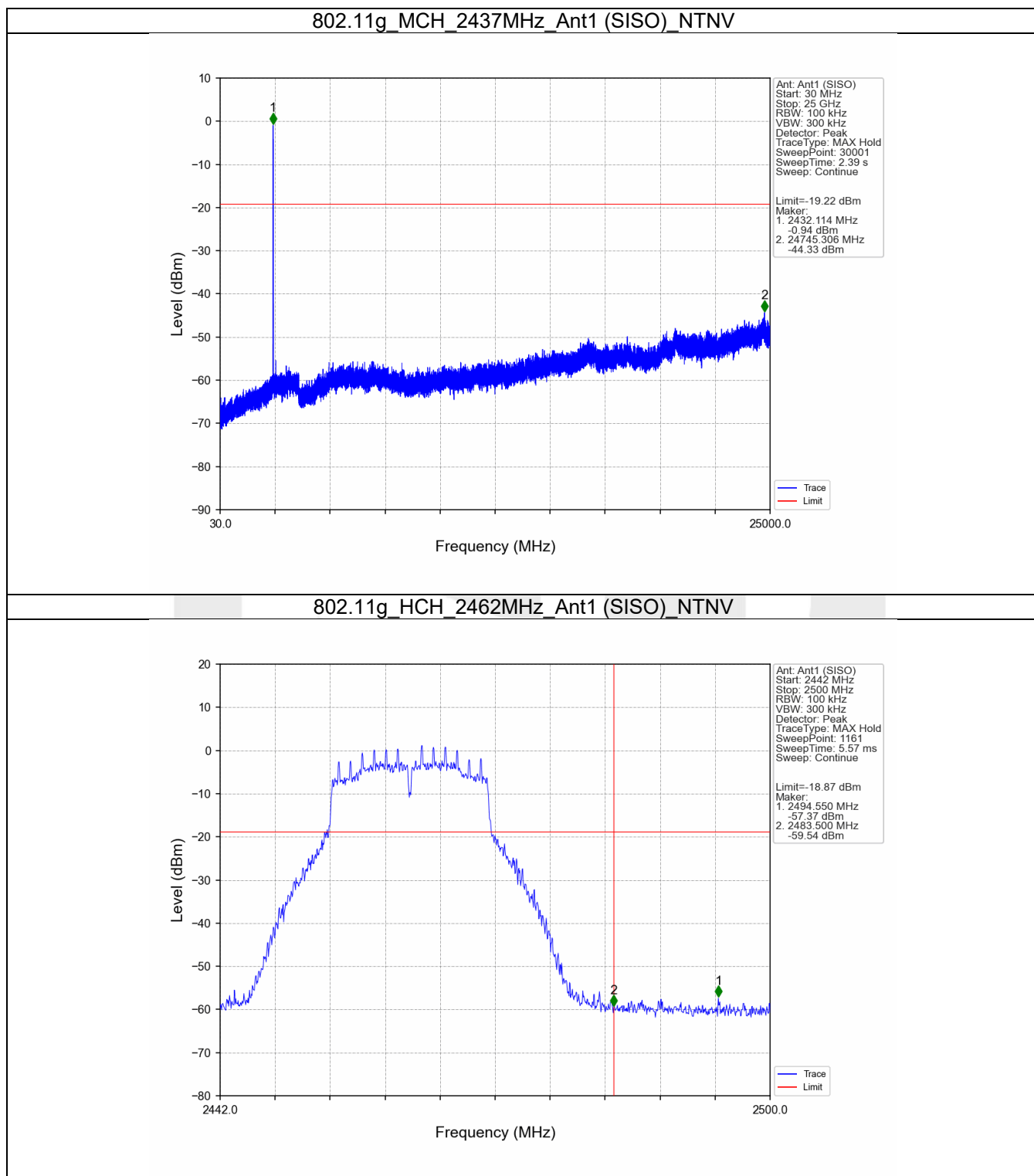


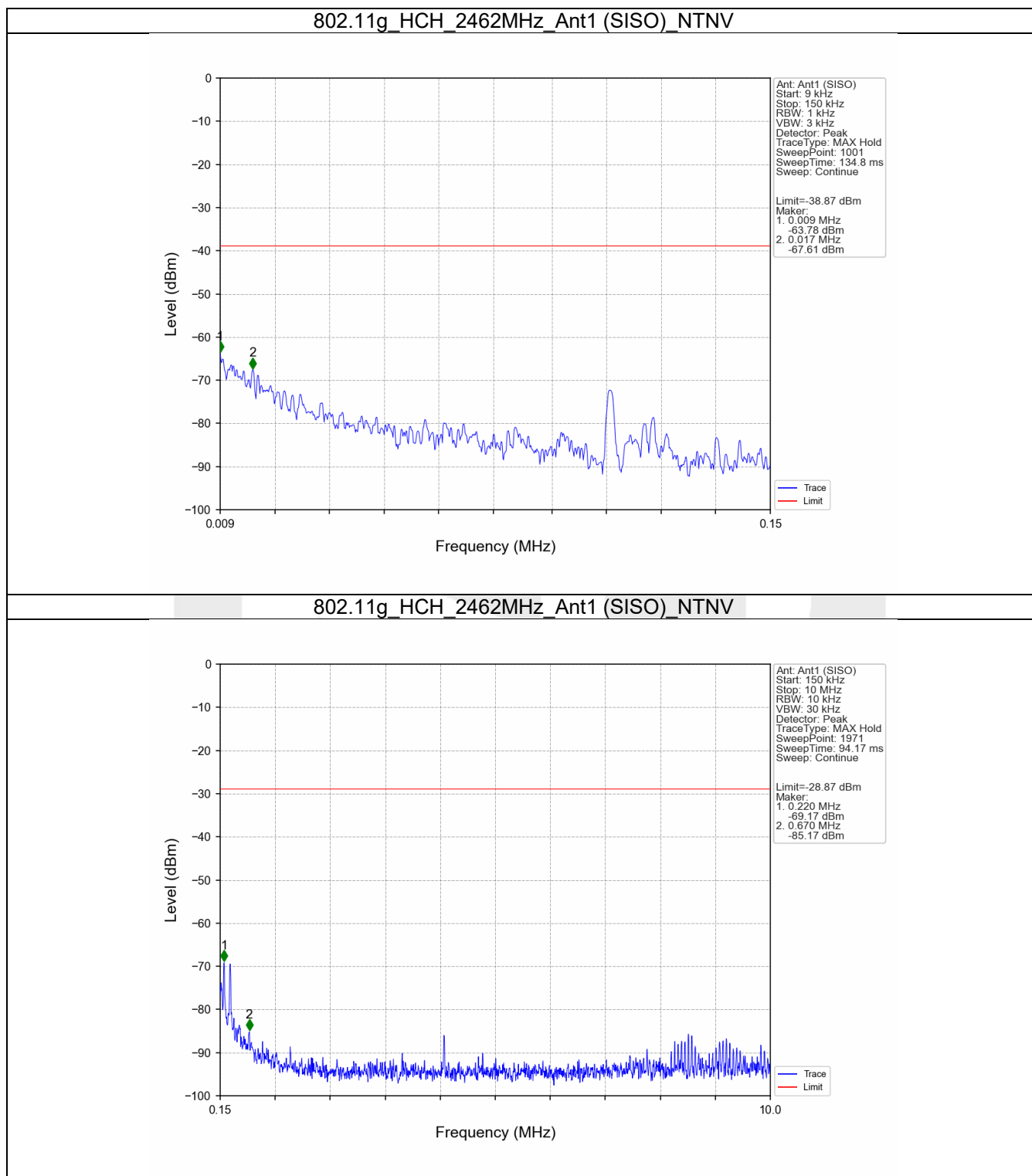


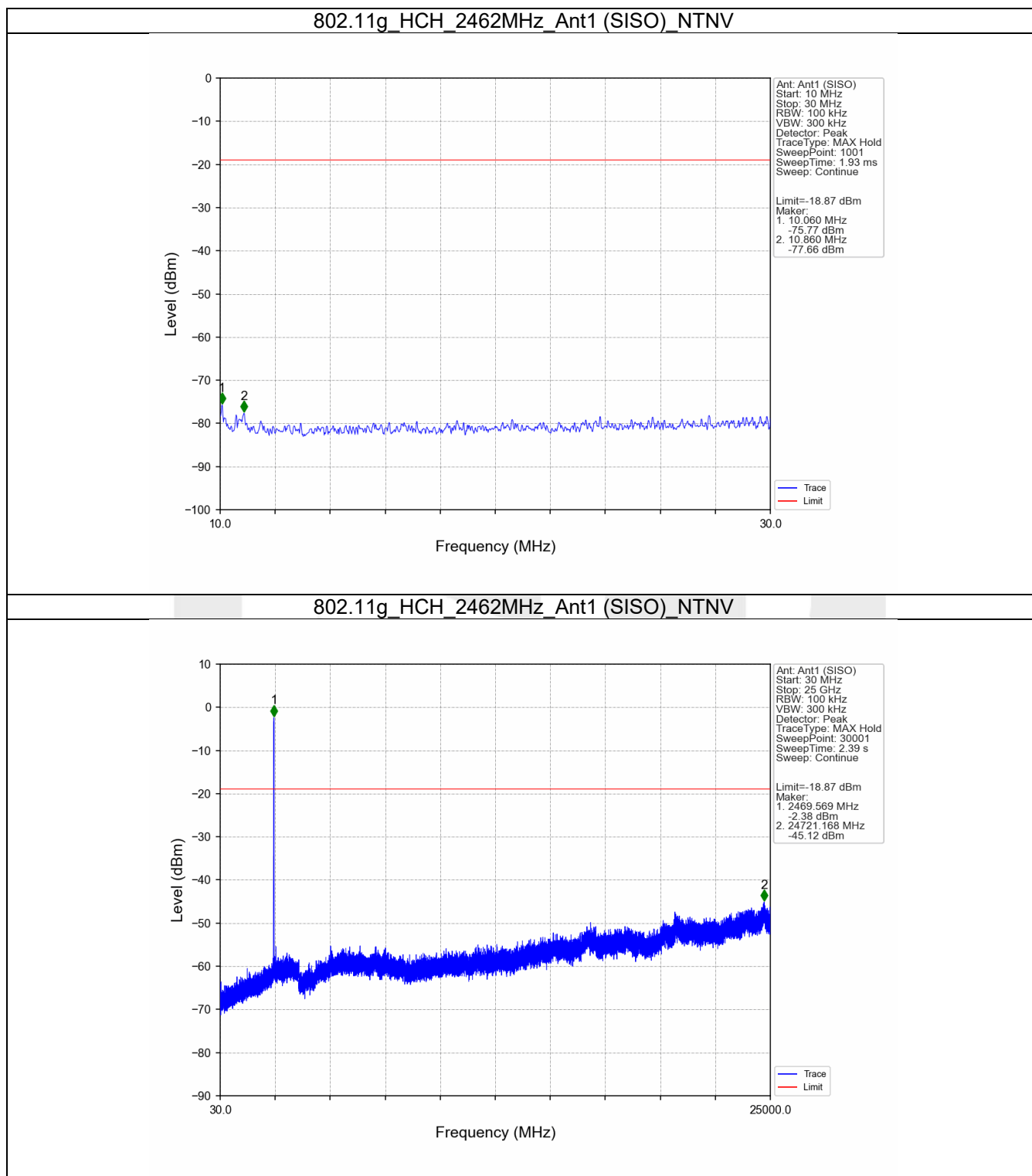


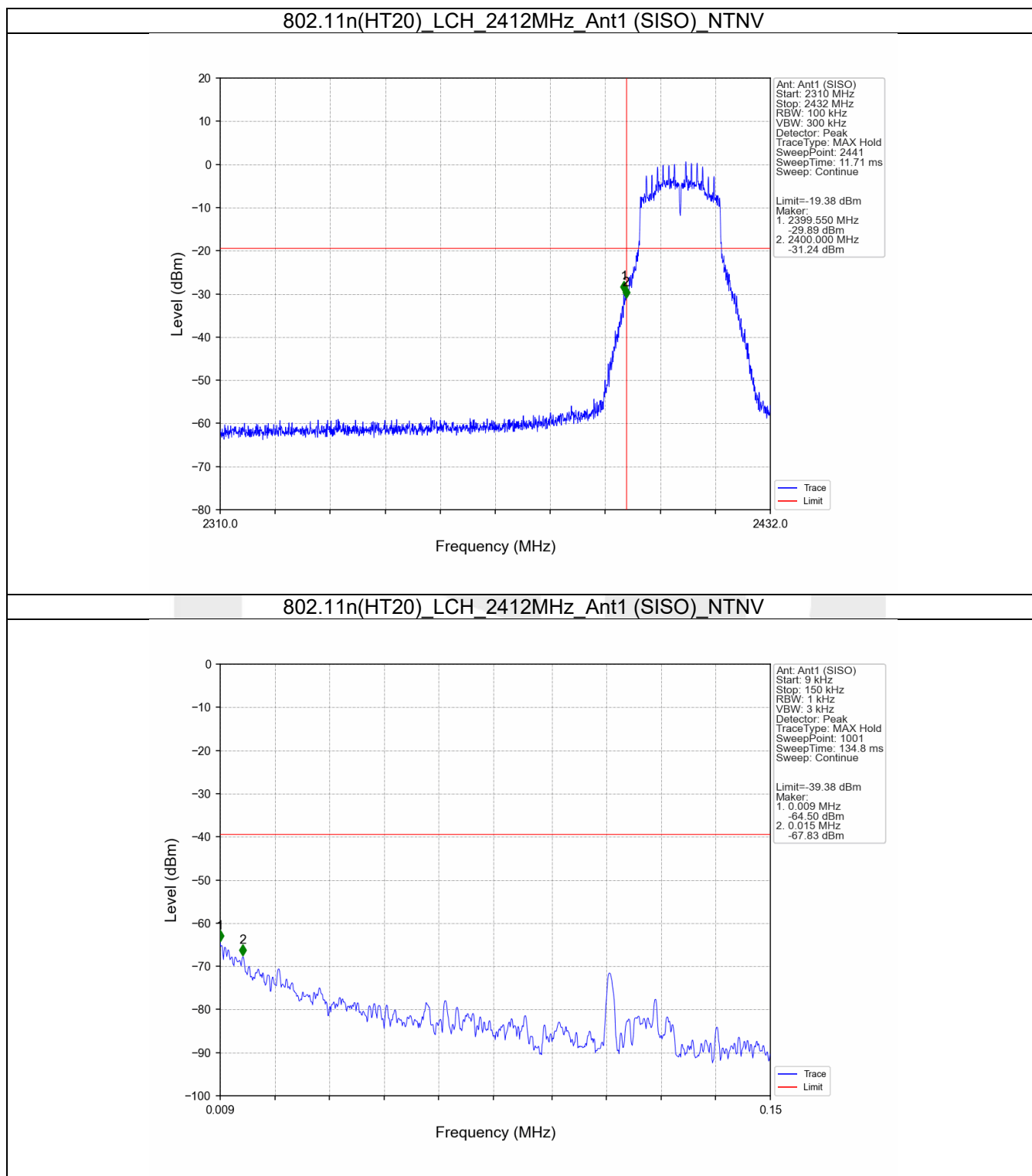


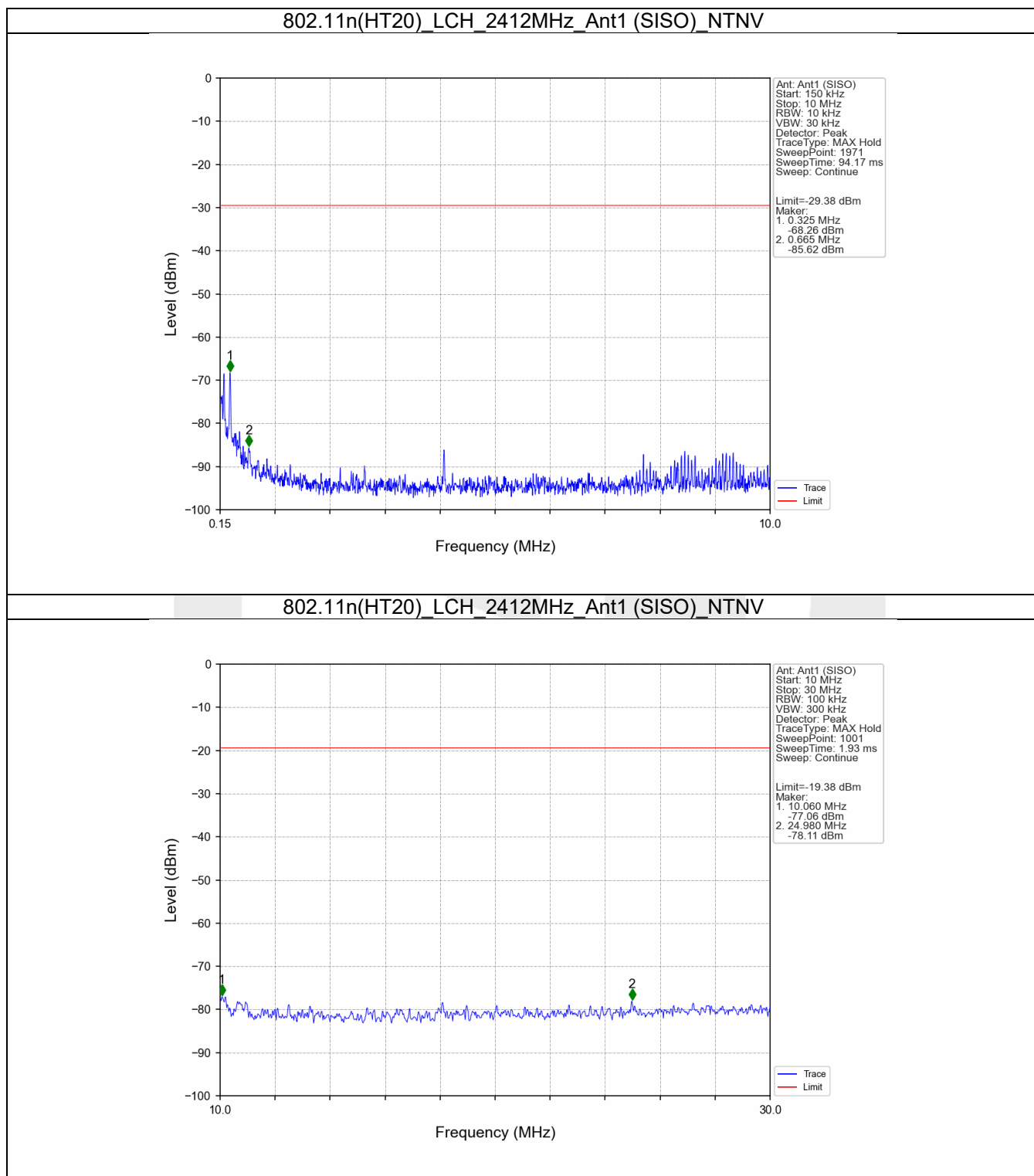


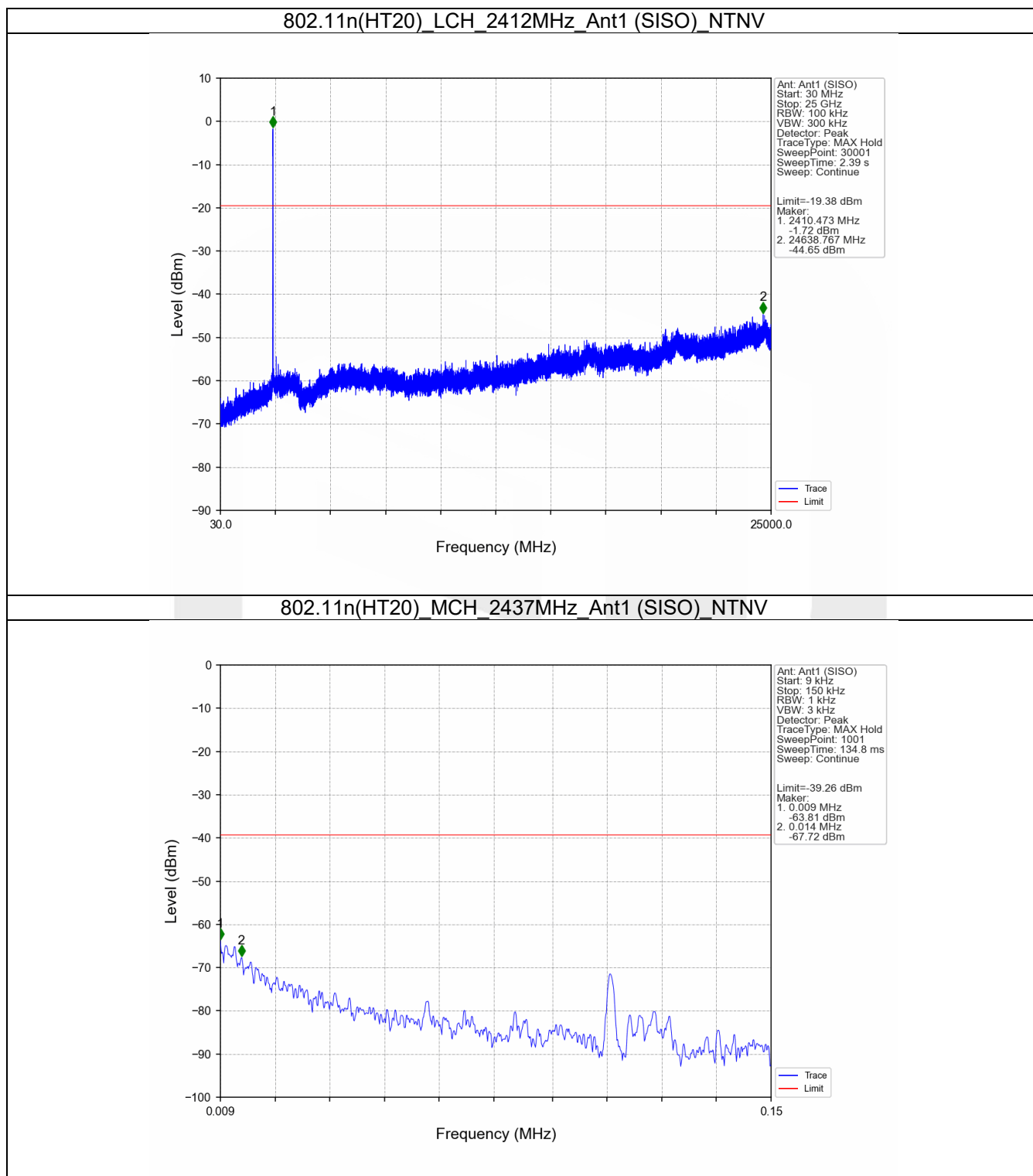


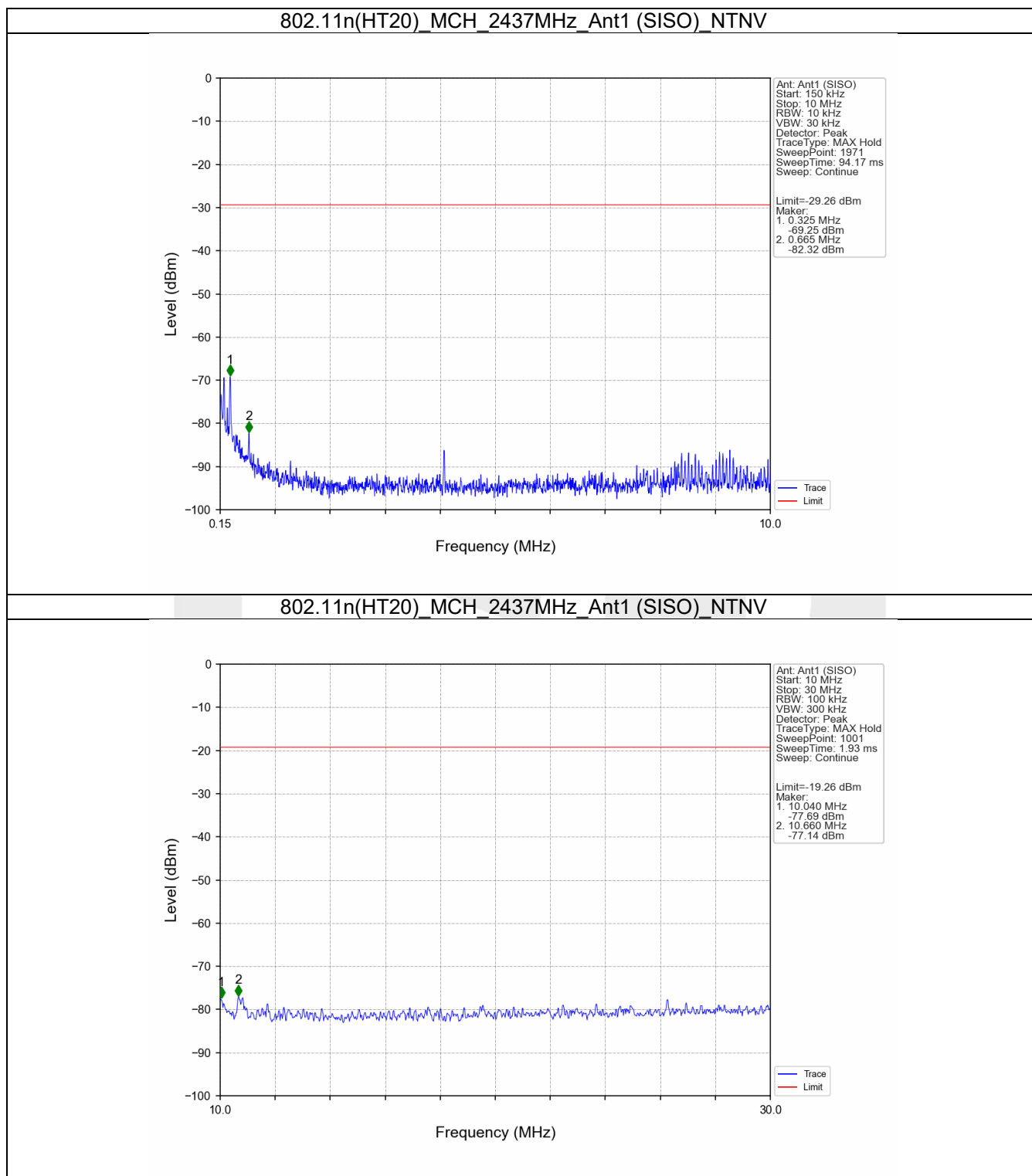


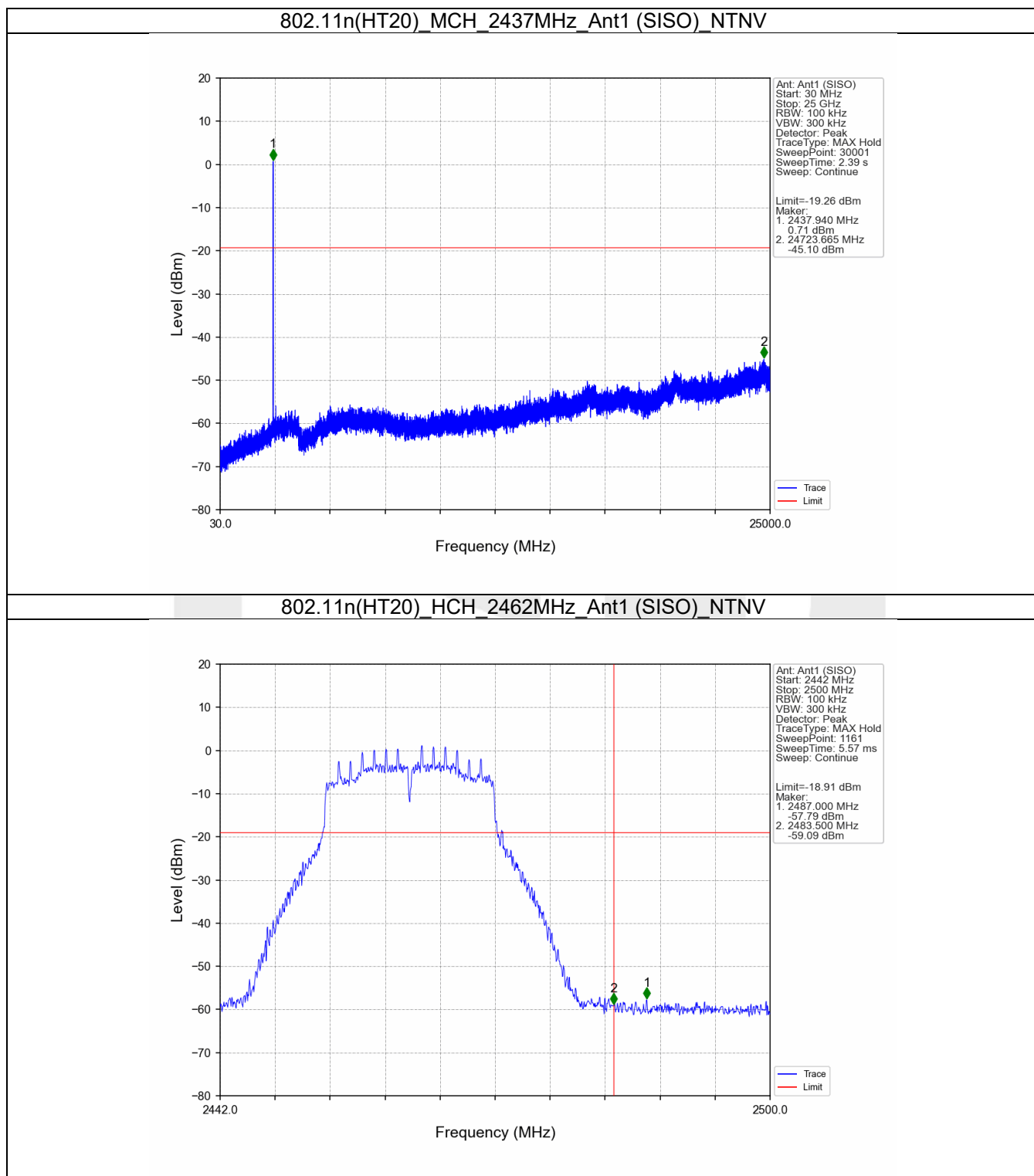


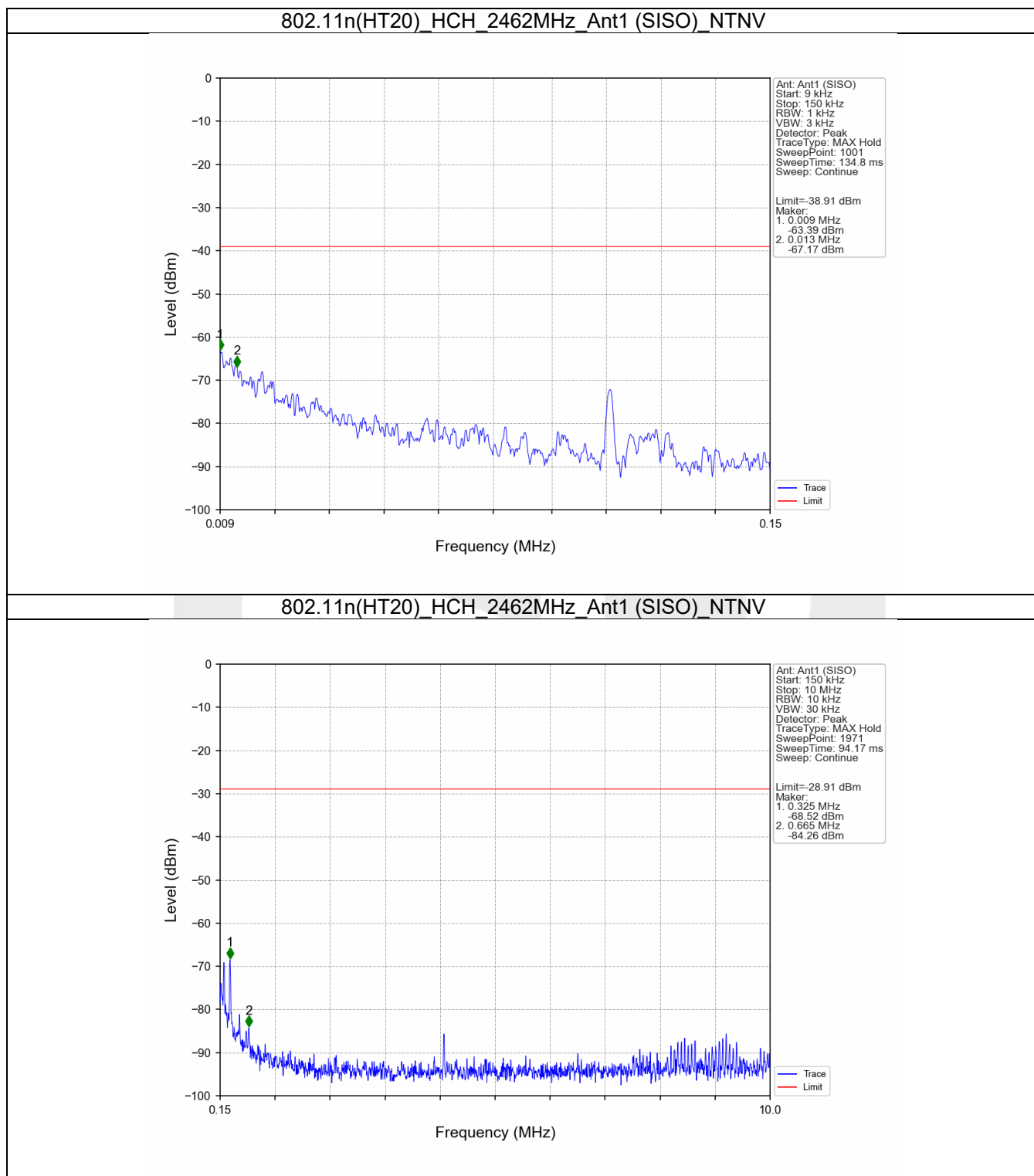


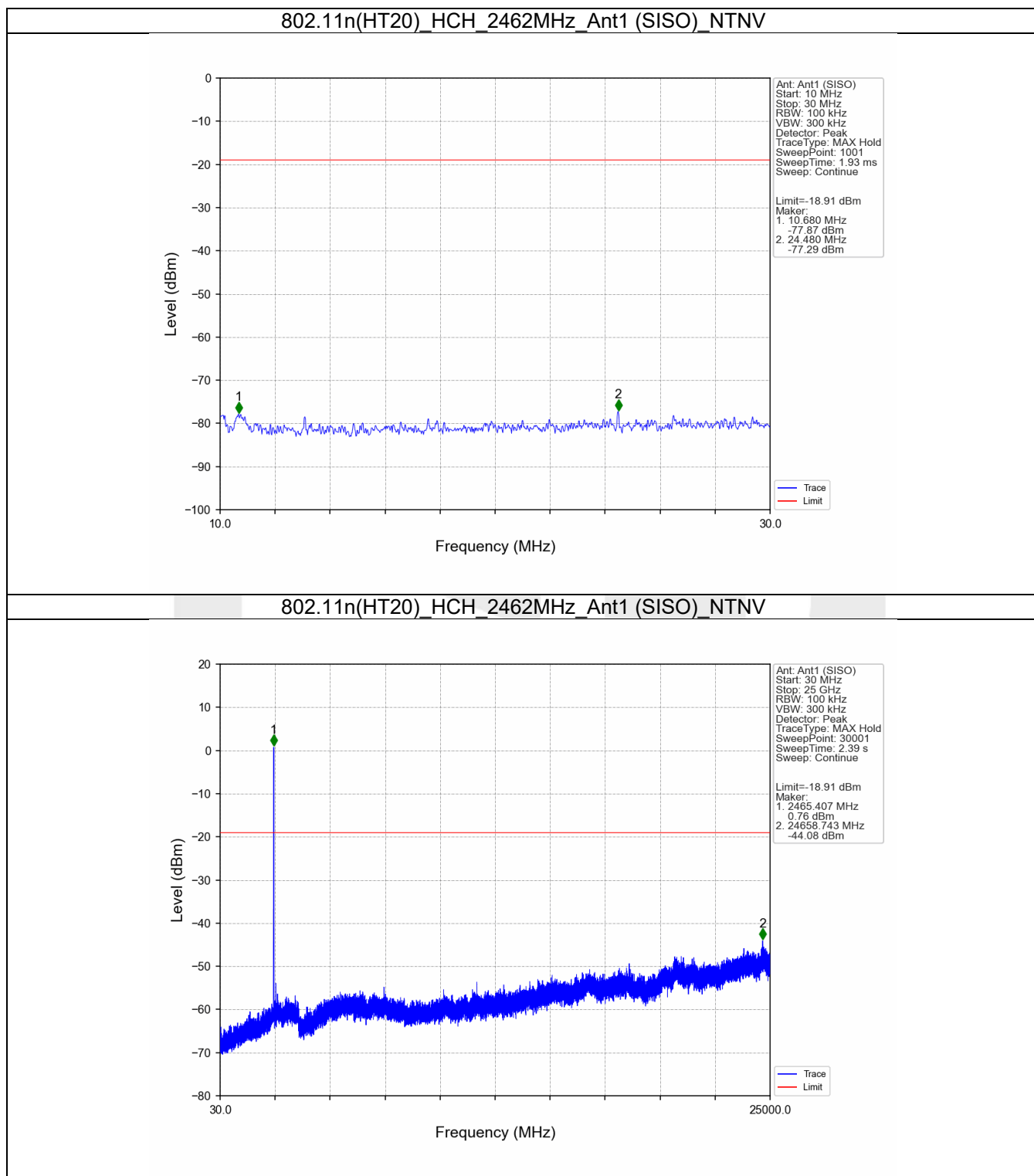












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