

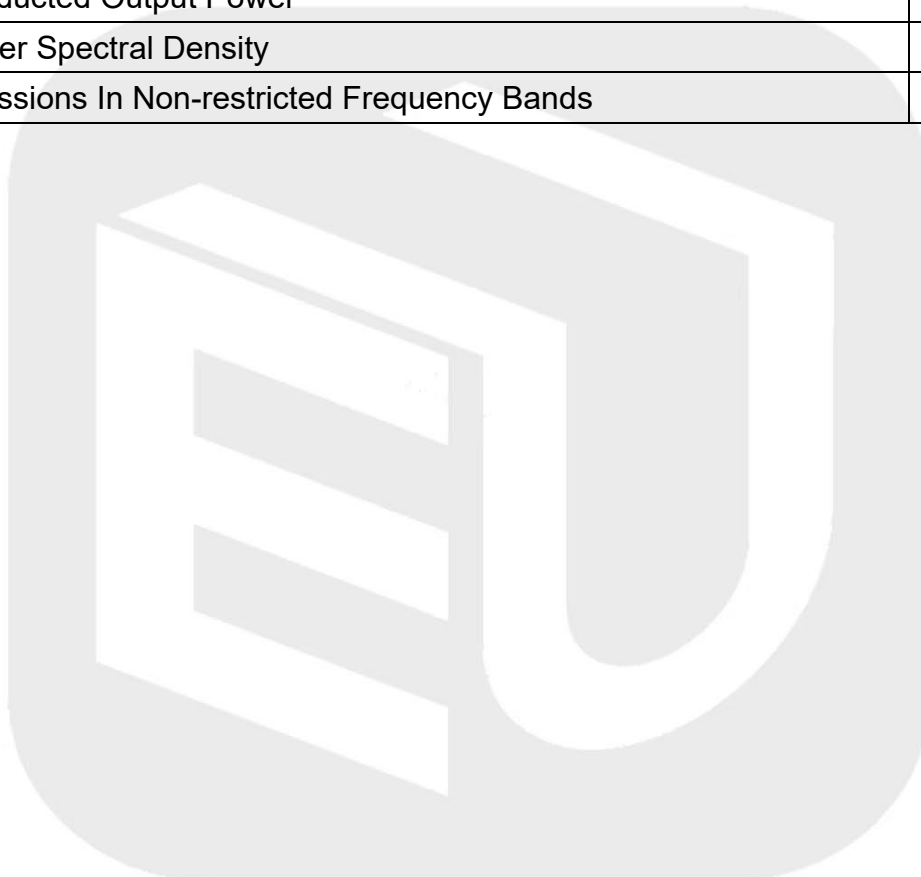
ANNEX D TEST DATA

For

Project No.:	8225EU010802W
Client:	Shenzhen Qianhai Runway Technology Co., LTD
Product Description:	Smart Pet Feeder
Model No.:	F17-C
FCC ID:	2AU2C-F17-C
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-01-10

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



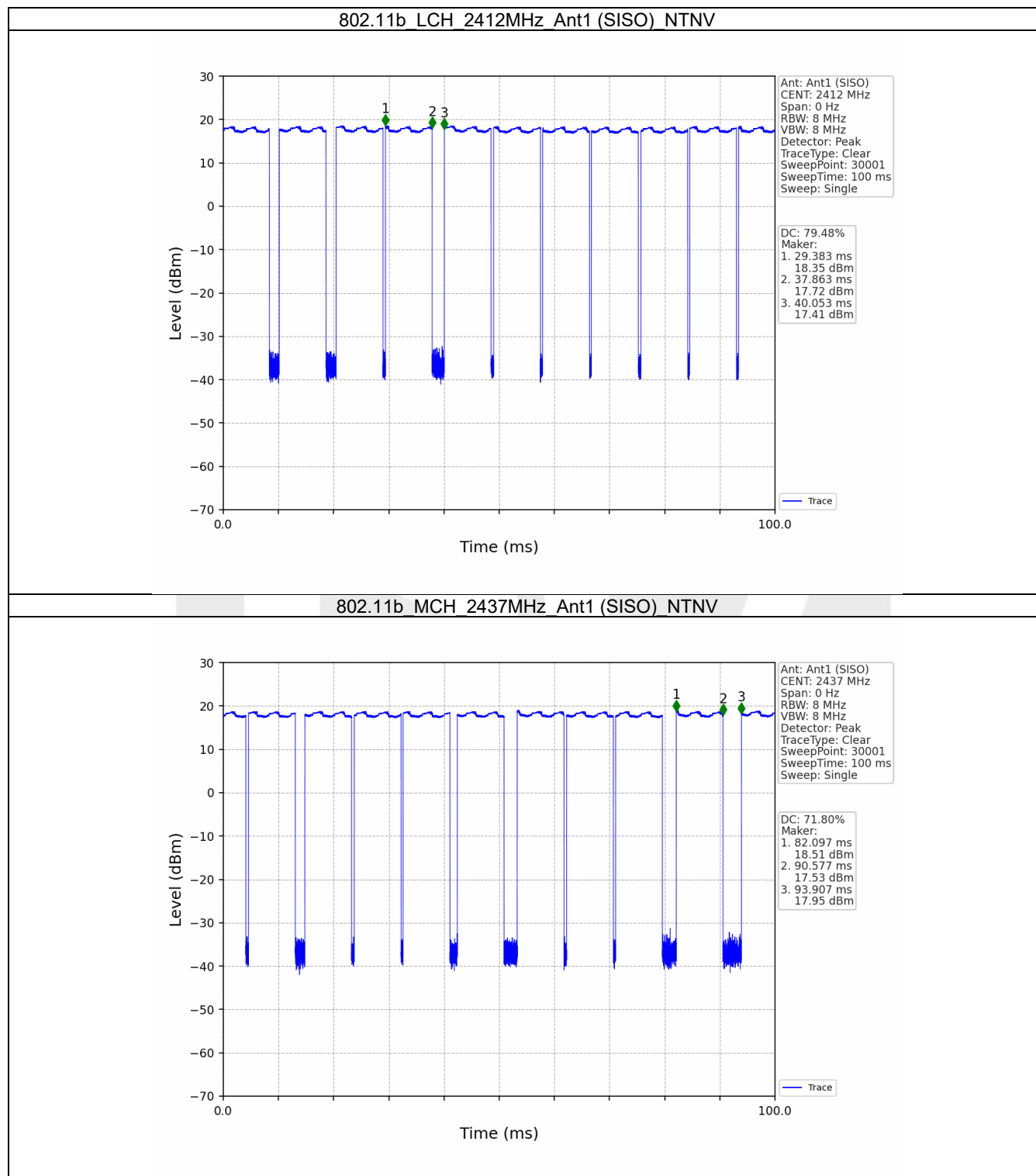
1. Duty Cycle

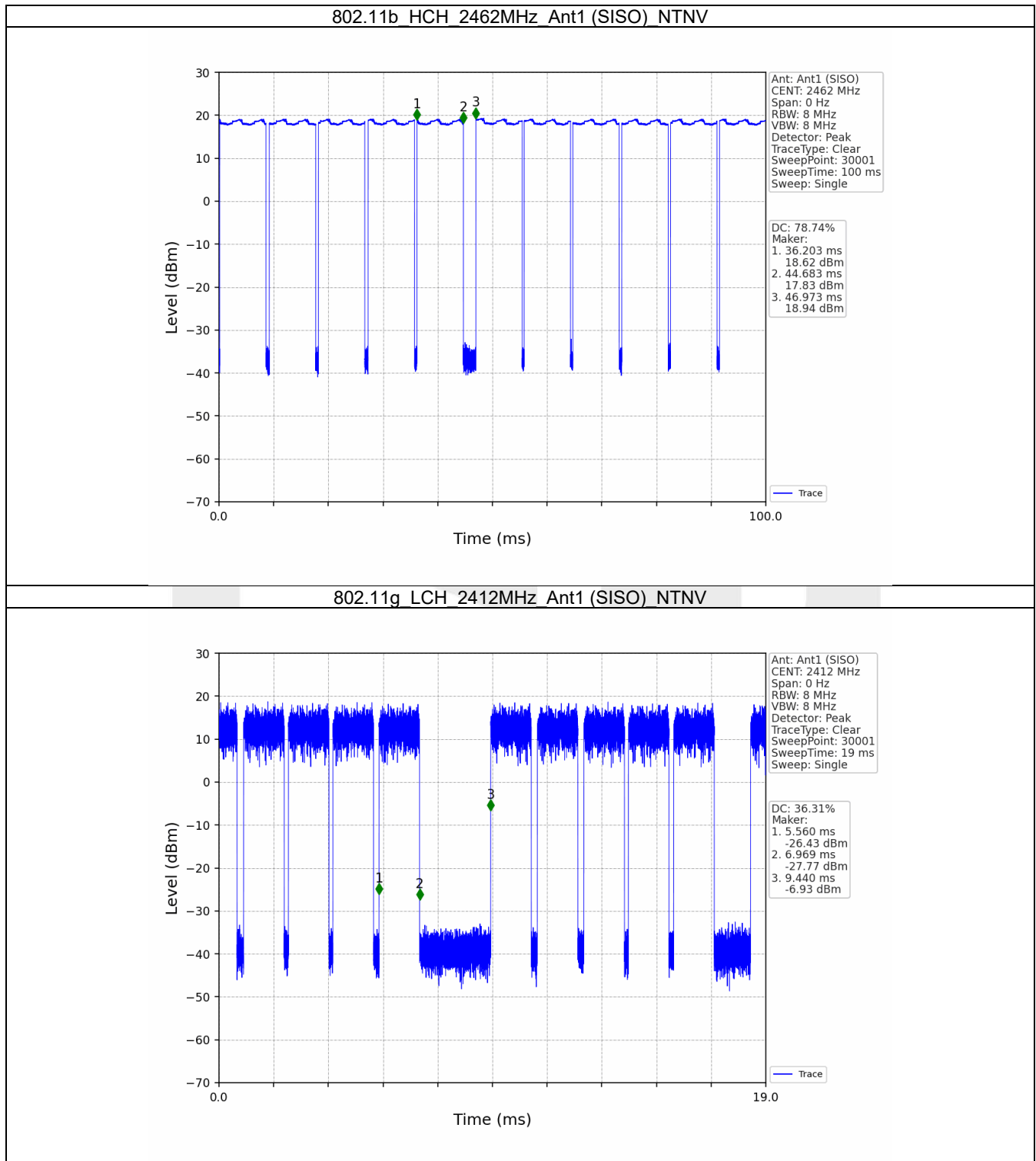
1.1 Ant1

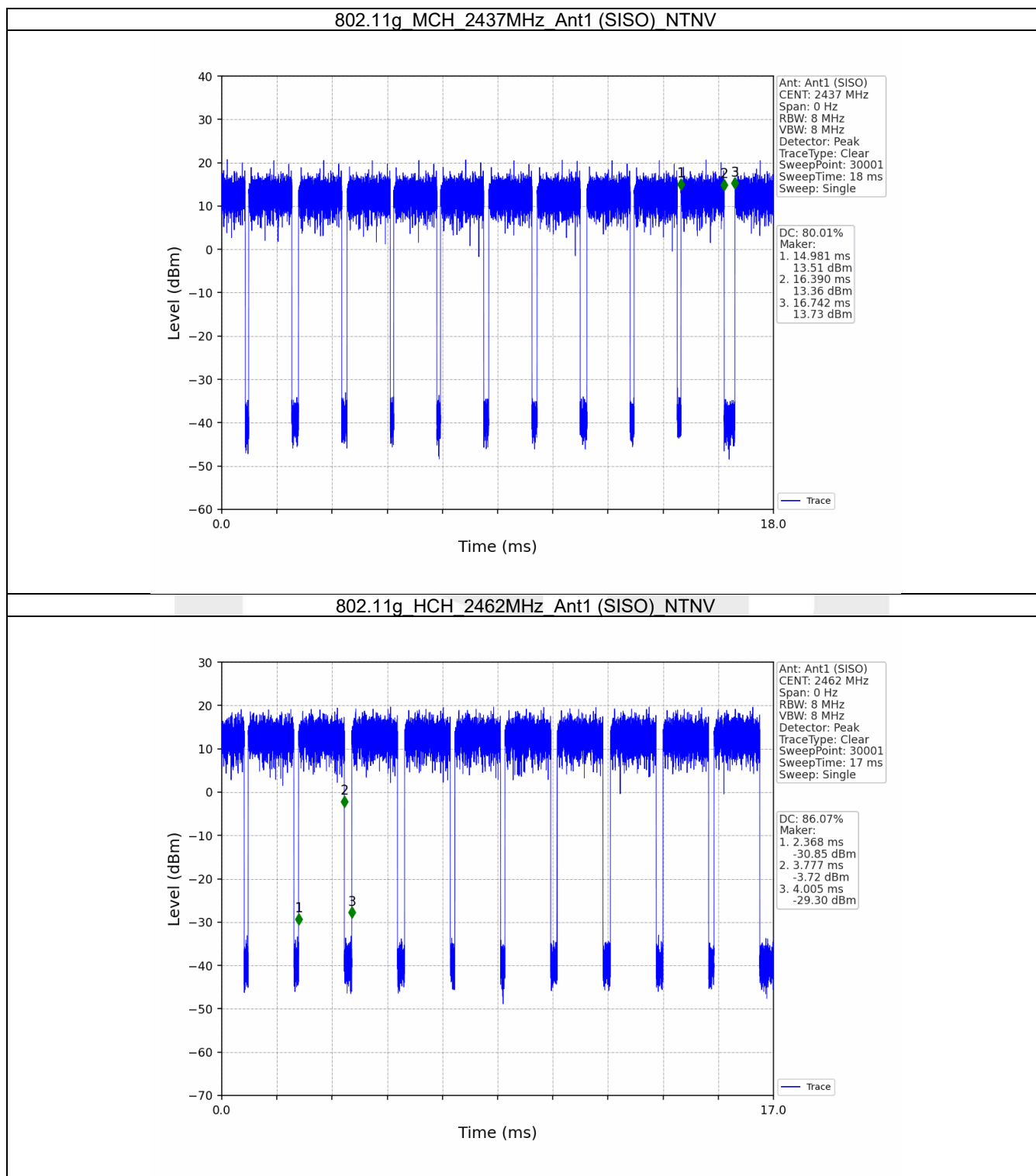
1.1.1 Test Result

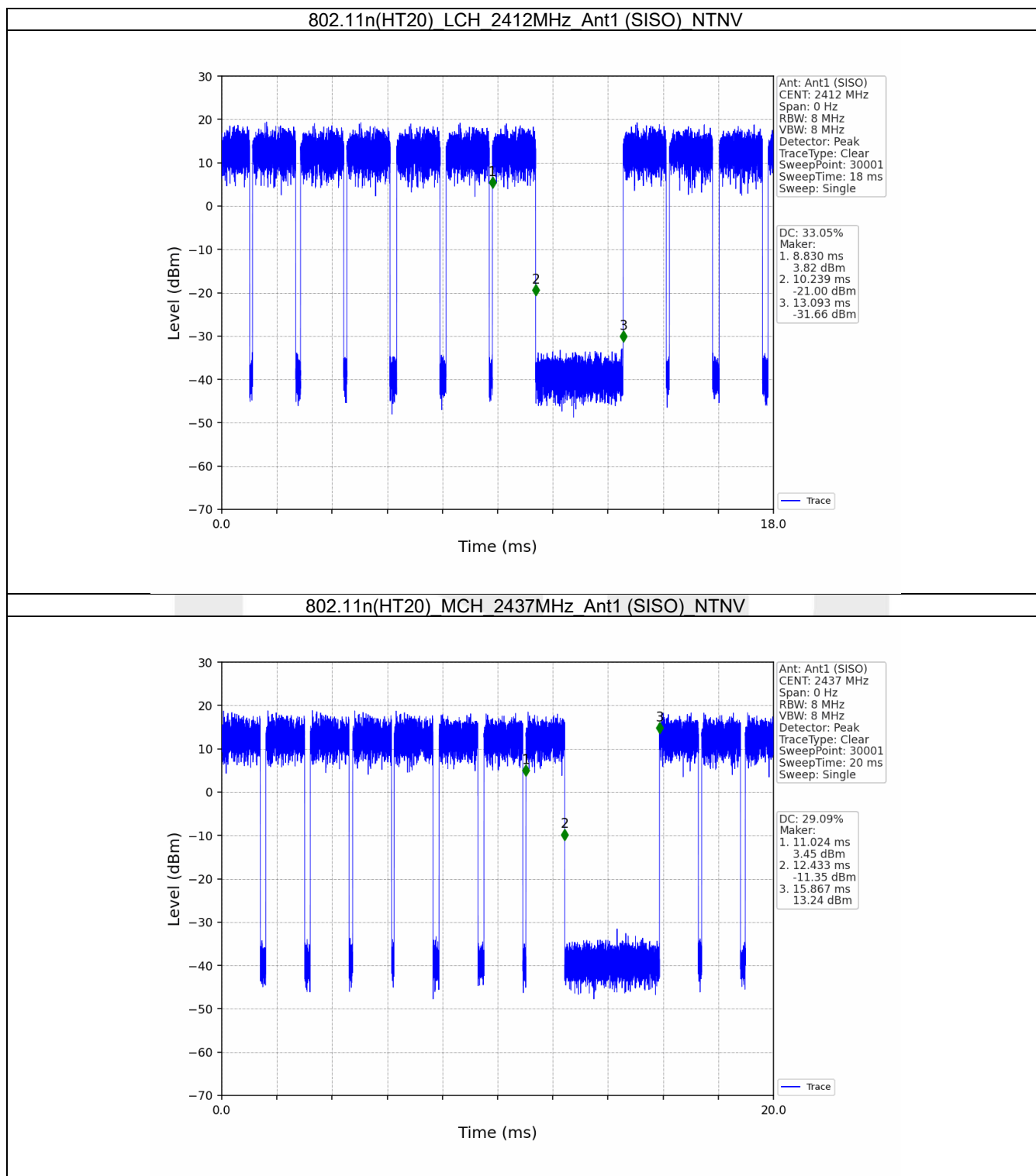
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.480	10.670	79.48	1.00	16.46
		2437	8.480	11.810	71.80	1.44	24.03
		2462	8.480	10.770	78.74	1.04	17.31
802.11g	SISO	2412	1.409	3.880	36.31	4.40	54.79
		2437	1.409	1.761	80.01	0.97	12.70
		2462	1.409	1.637	86.07	0.65	5.01
802.11n (HT20)	SISO	2412	1.409	4.263	33.05	4.81	60.23
		2437	1.409	4.843	29.09	5.36	64.73
		2462	1.408	2.199	64.03	1.94	29.23

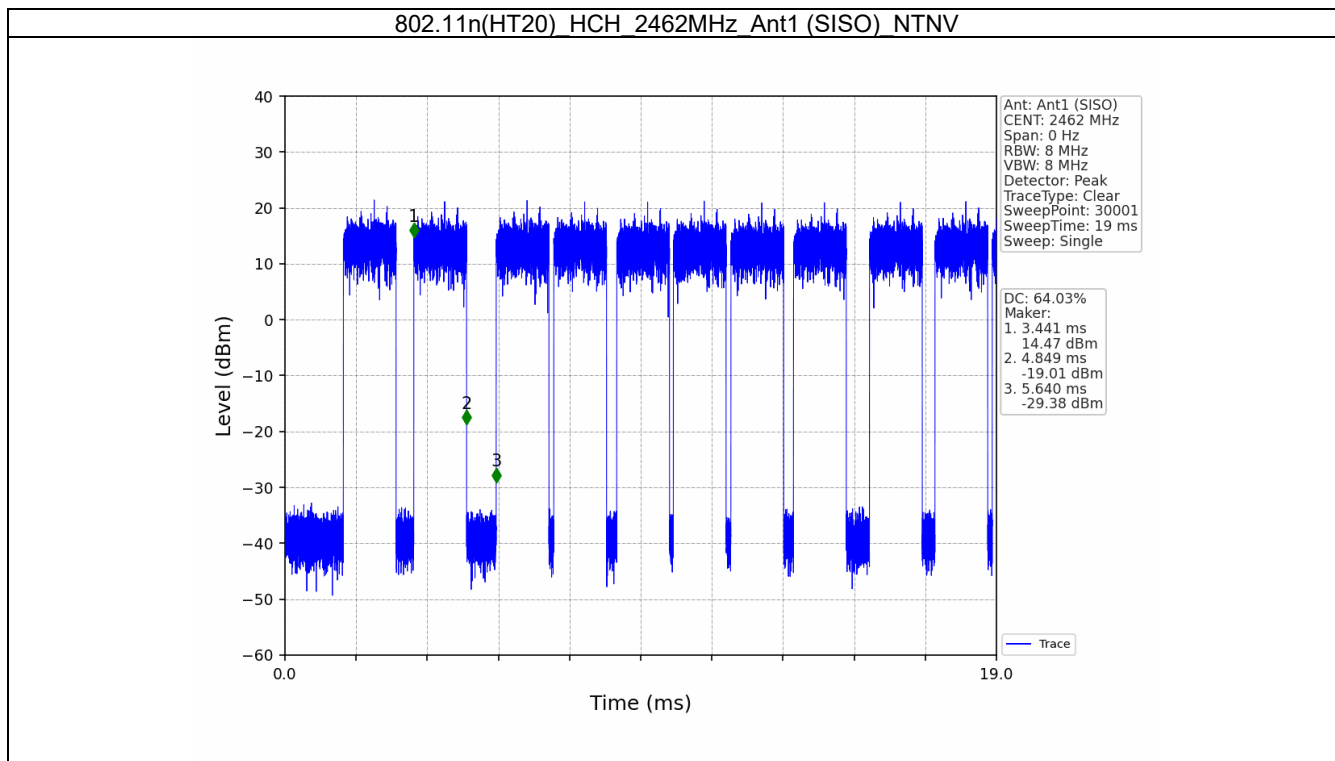
1.1.2 Test Graph











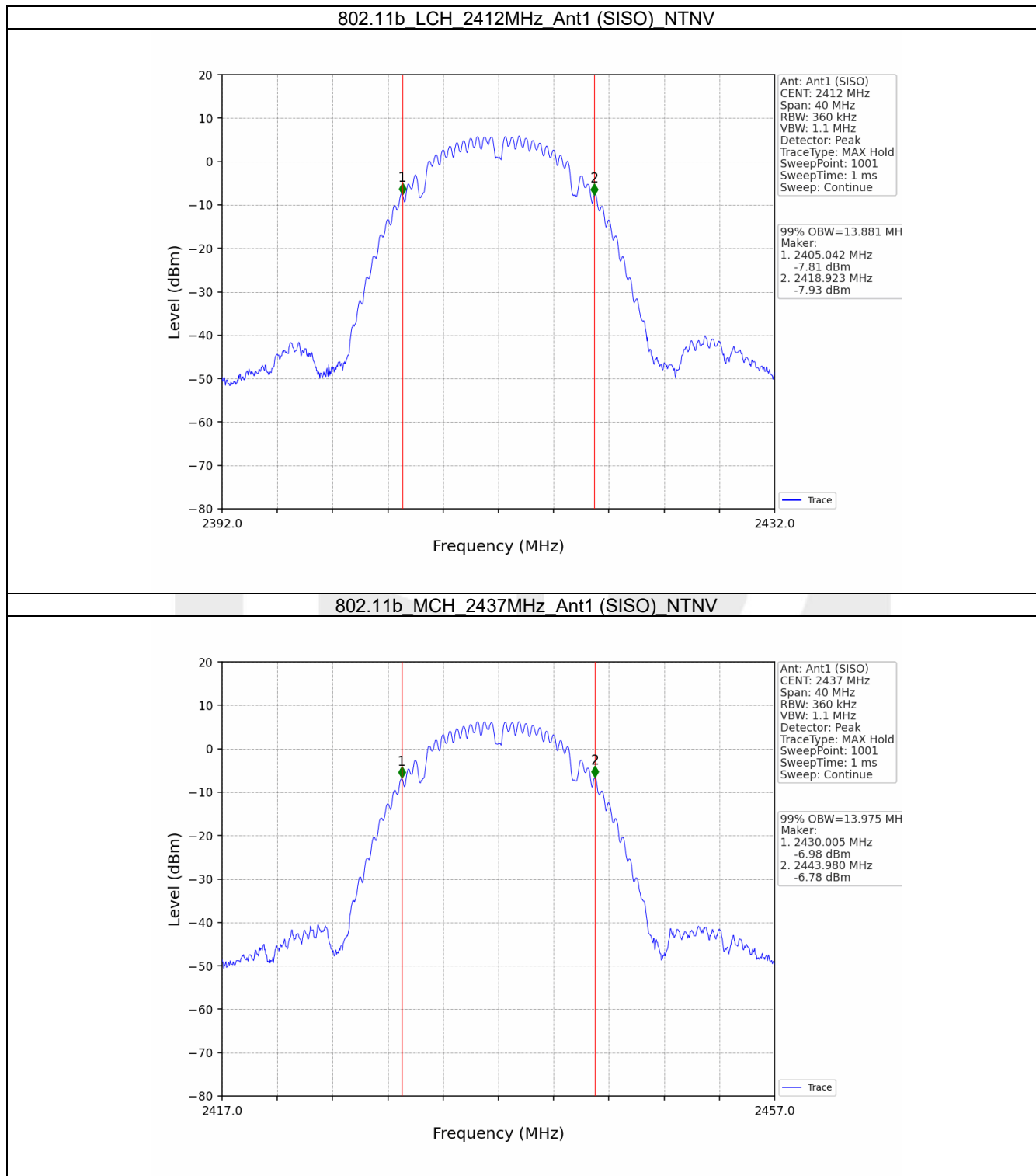
2. Bandwidth

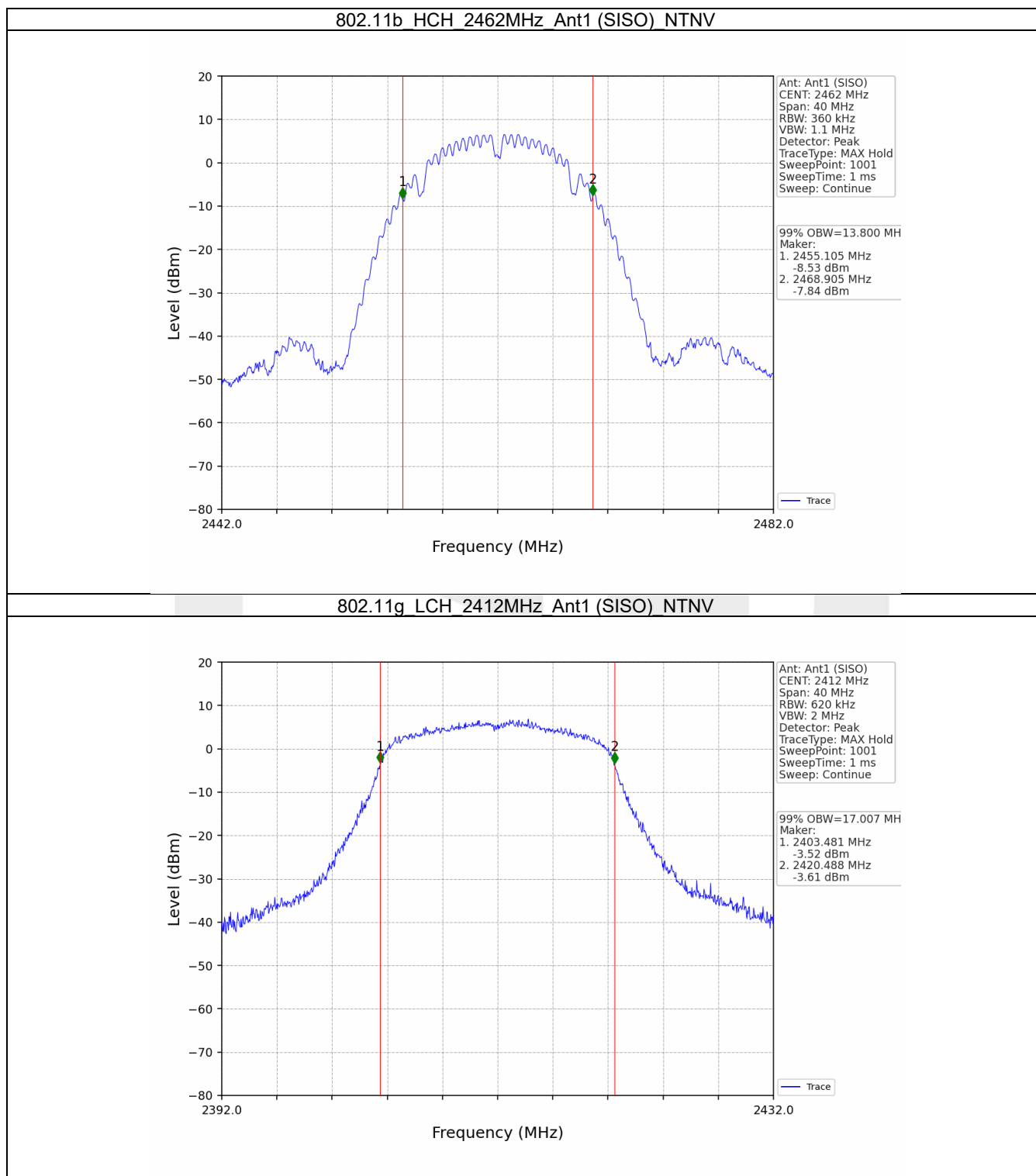
2.1 OBW

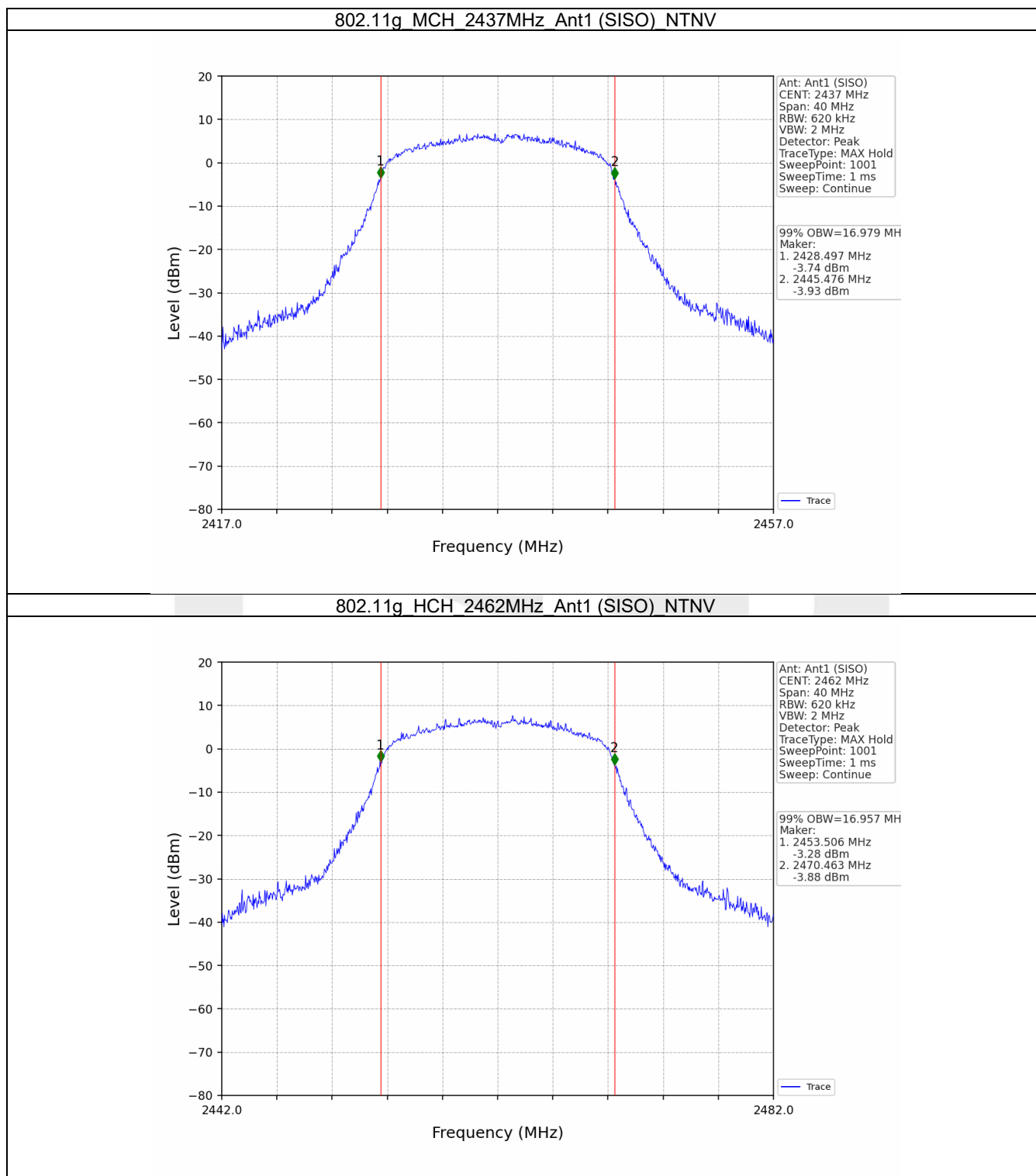
2.1.1 Test Result

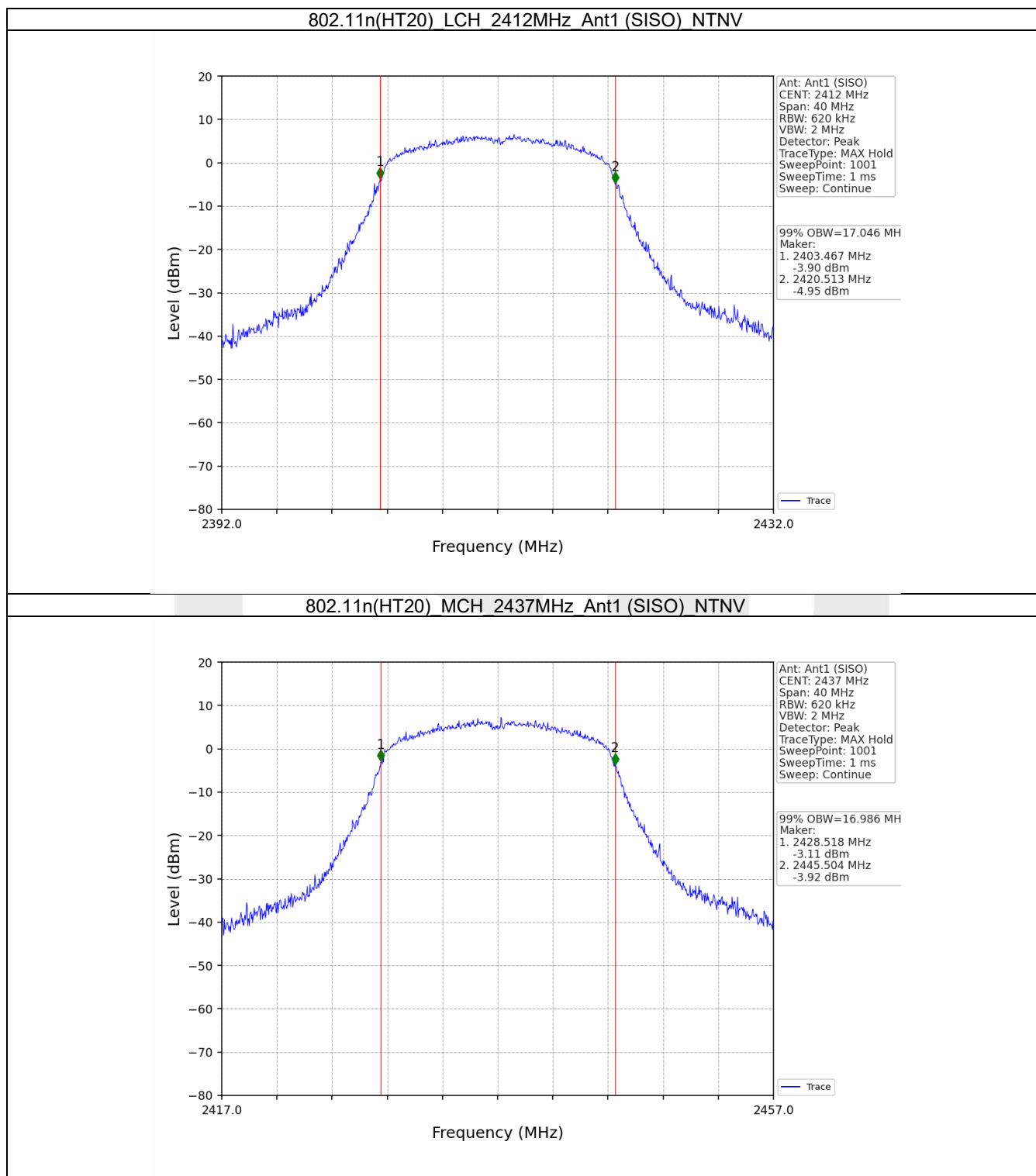
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.881	Pass
		2437	1	13.975	Pass
		2462	1	13.800	Pass
802.11g	SISO	2412	1	17.007	Pass
		2437	1	16.979	Pass
		2462	1	16.957	Pass
802.11n (HT20)	SISO	2412	1	17.046	Pass
		2437	1	16.986	Pass
		2462	1	16.949	Pass

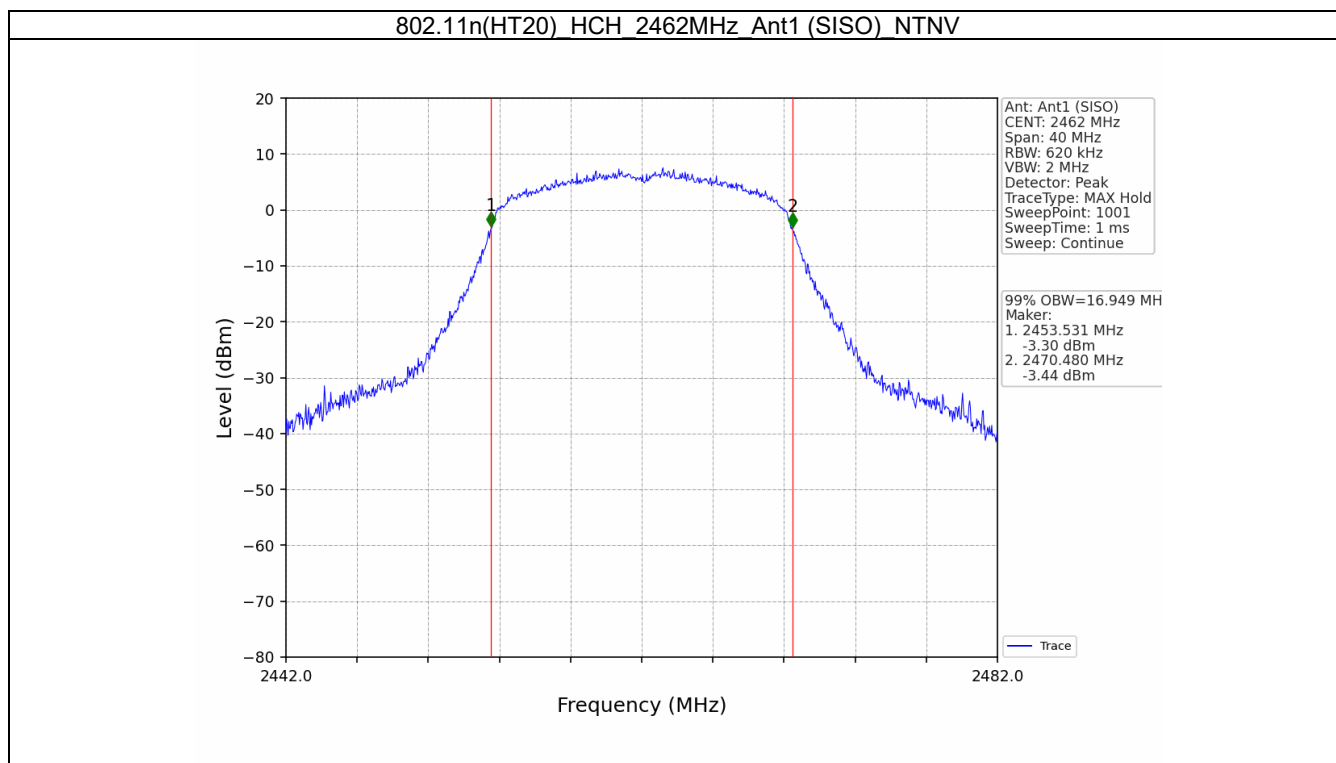
2.1.2 Test Graph









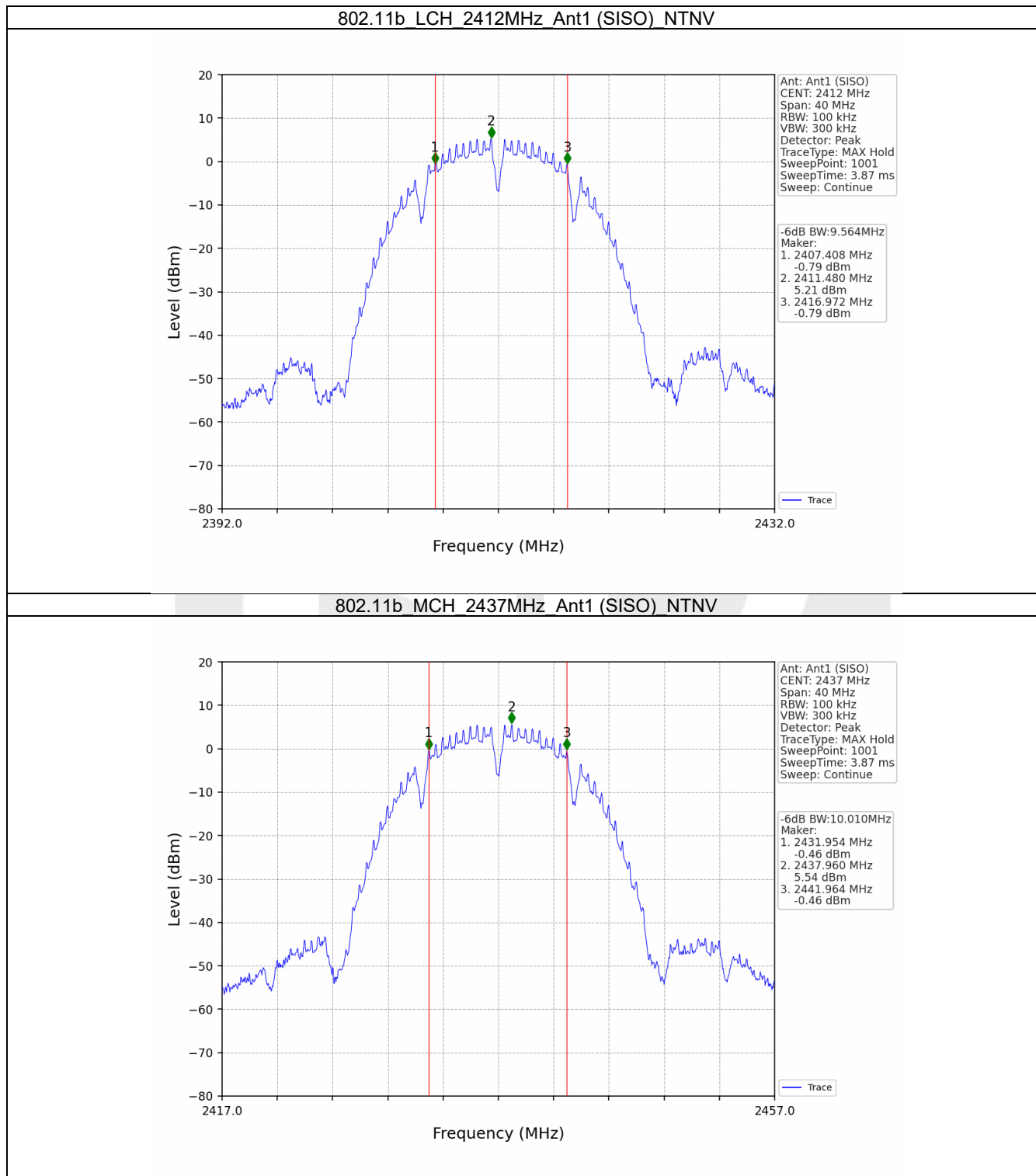


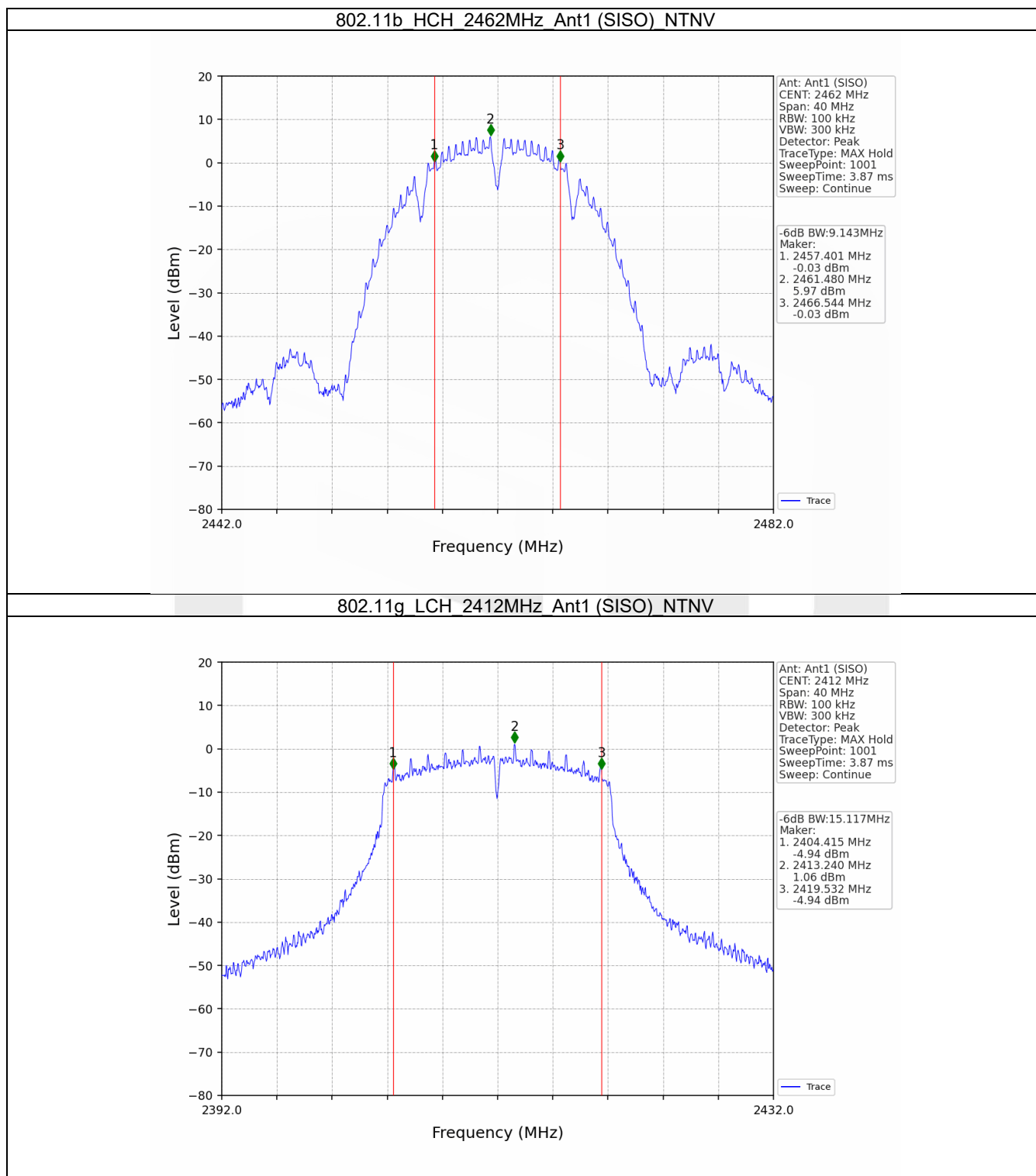
2.2 6dB BW

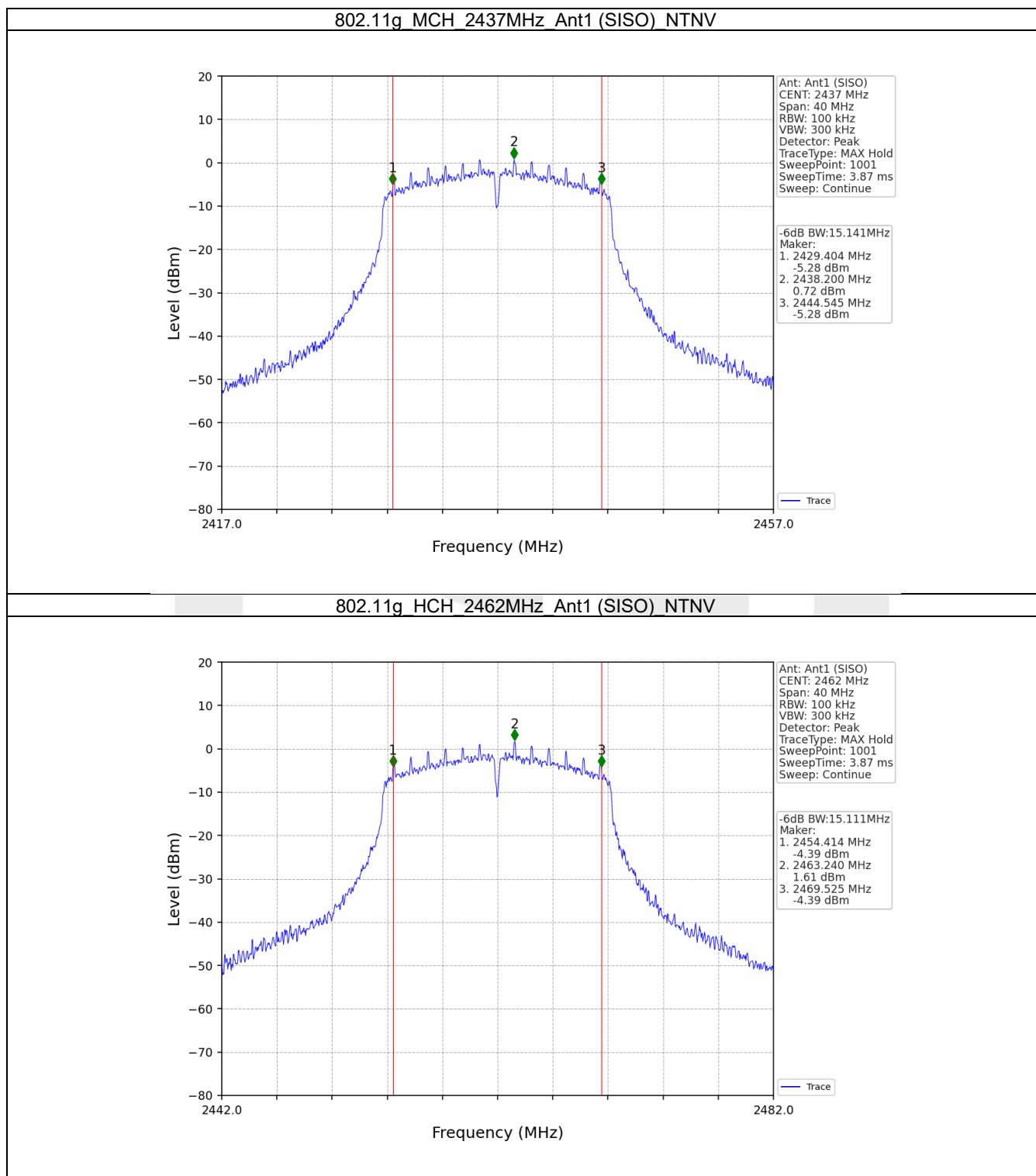
2.2.1 Test Result

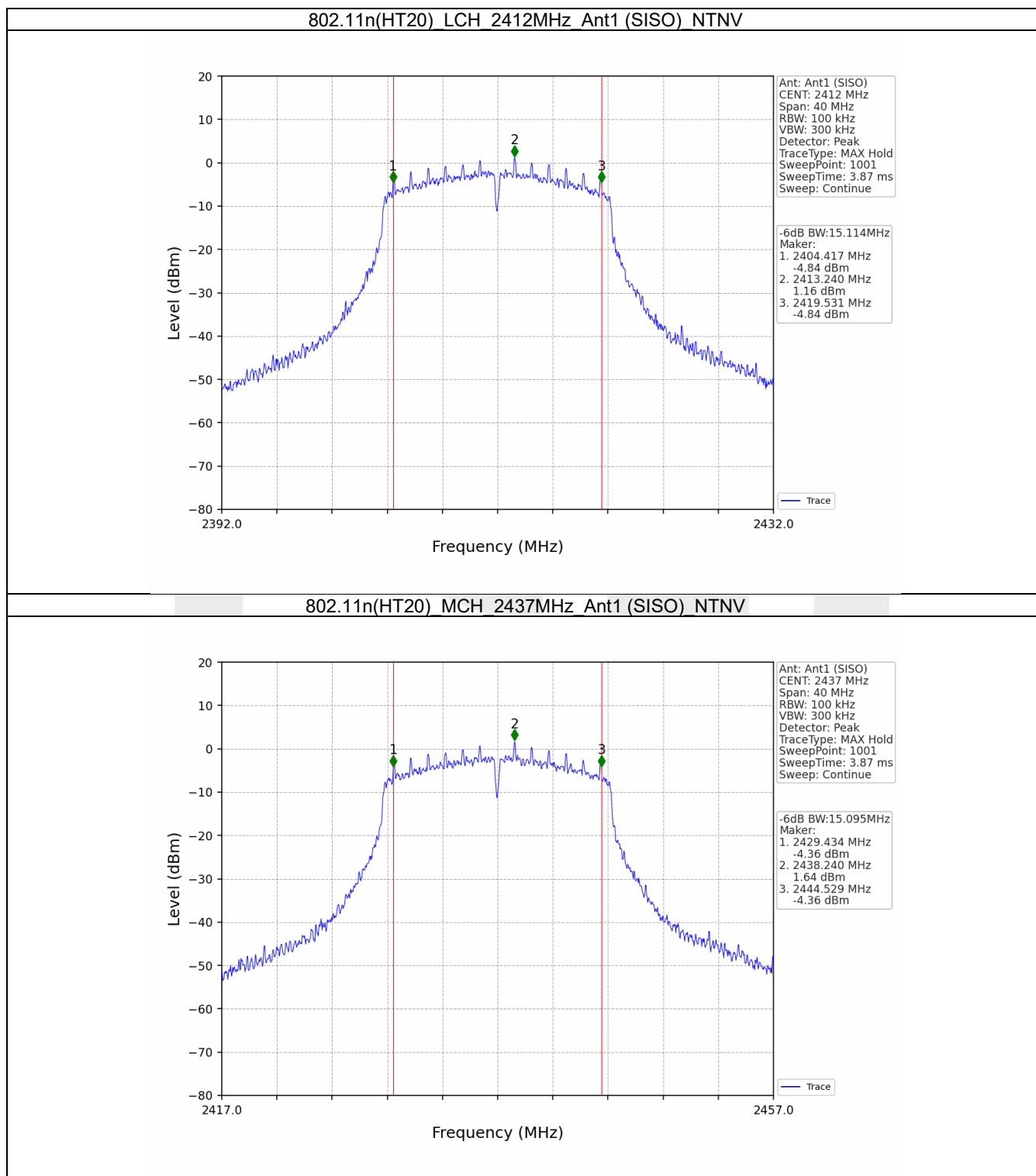
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.564	≥ 0.5	Pass
		2437	1	10.010	≥ 0.5	Pass
		2462	1	9.143	≥ 0.5	Pass
802.11g	SISO	2412	1	15.117	≥ 0.5	Pass
		2437	1	15.141	≥ 0.5	Pass
		2462	1	15.111	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.114	≥ 0.5	Pass
		2437	1	15.095	≥ 0.5	Pass
		2462	1	15.100	≥ 0.5	Pass

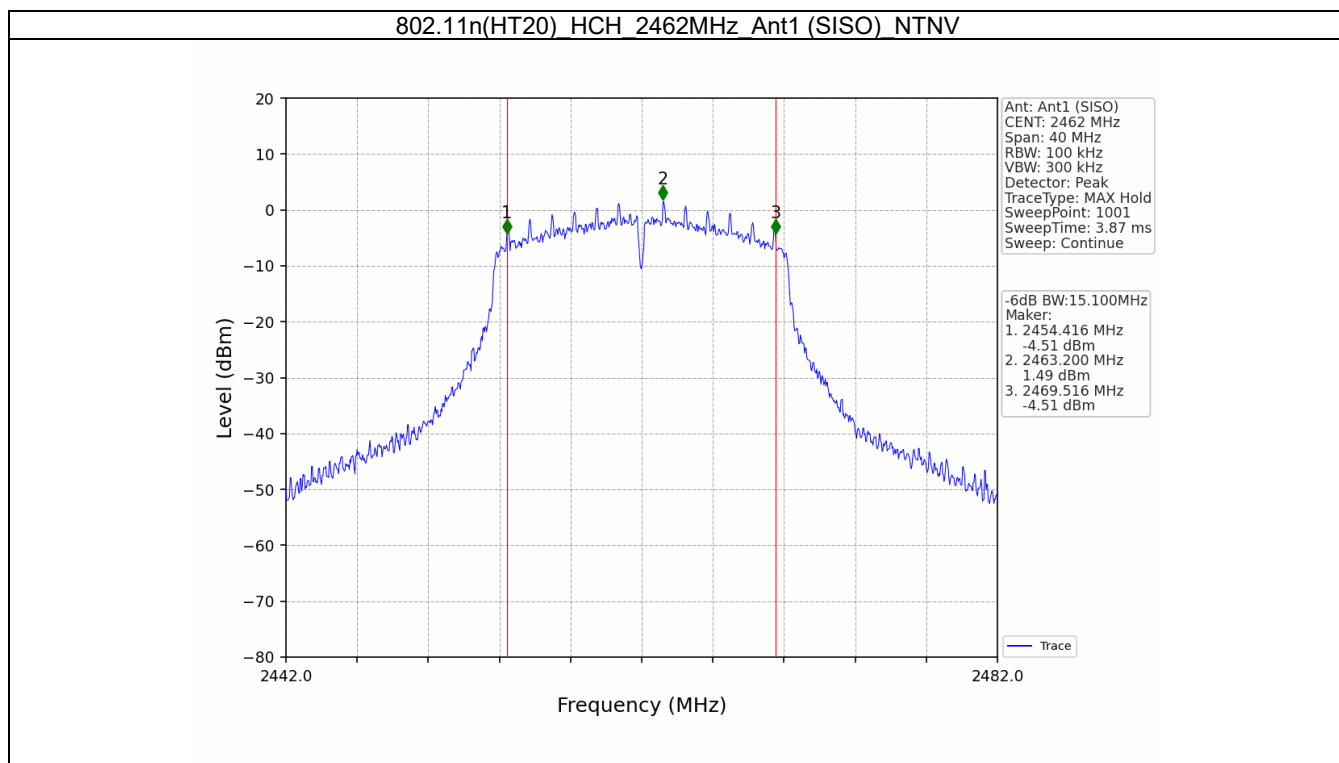
2.2.2 Test Graph











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	16.98	<=30	Pass
		2437	17.37	<=30	Pass
		2462	17.54	<=30	Pass
802.11g	SISO	2412	18.64	<=30	Pass
		2437	18.79	<=30	Pass
		2462	19.18	<=30	Pass
802.11n (HT20)	SISO	2412	18.65	<=30	Pass
		2437	18.77	<=30	Pass
		2462	19.18	<=30	Pass

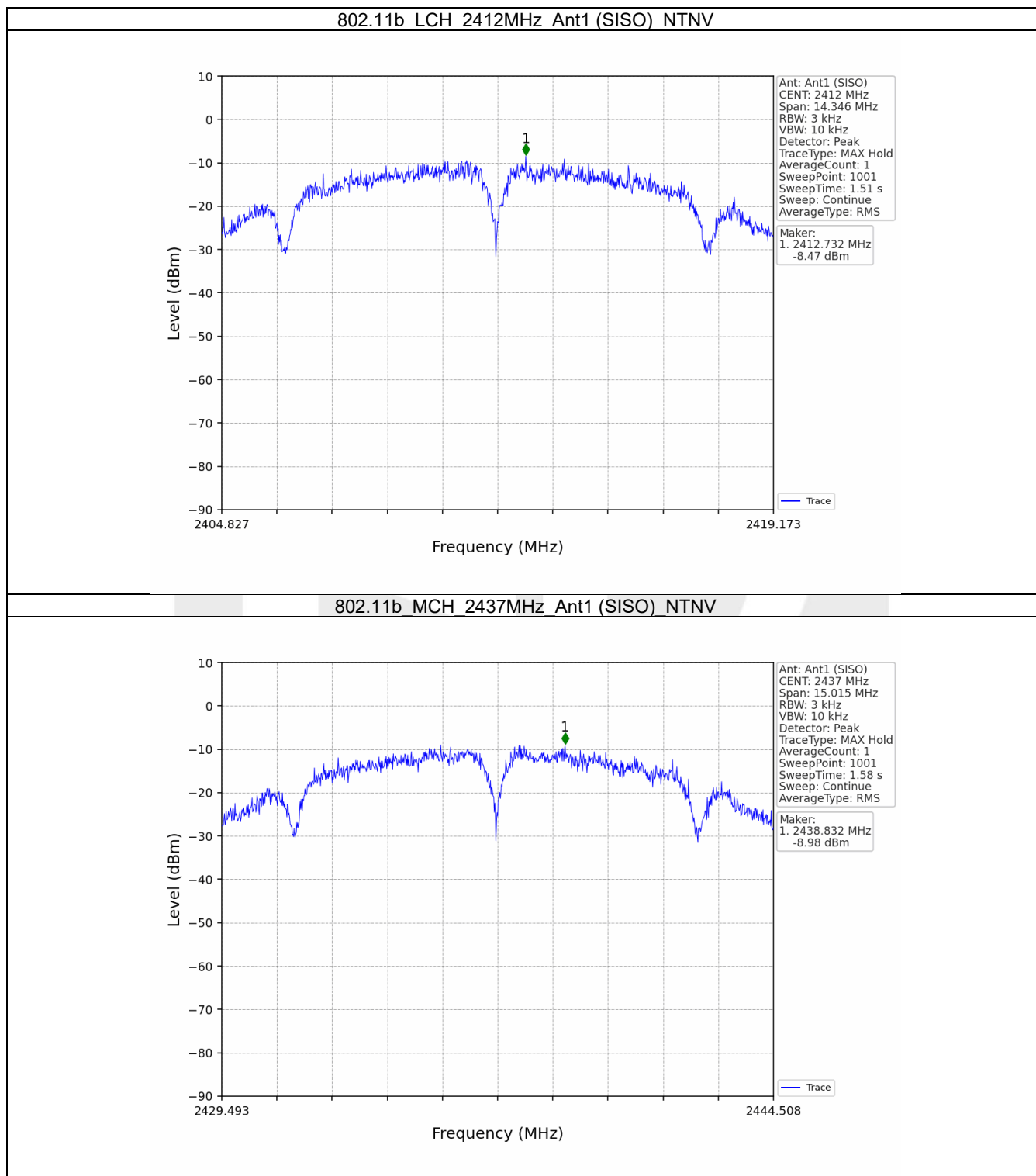
4. Maximum Power Spectral Density

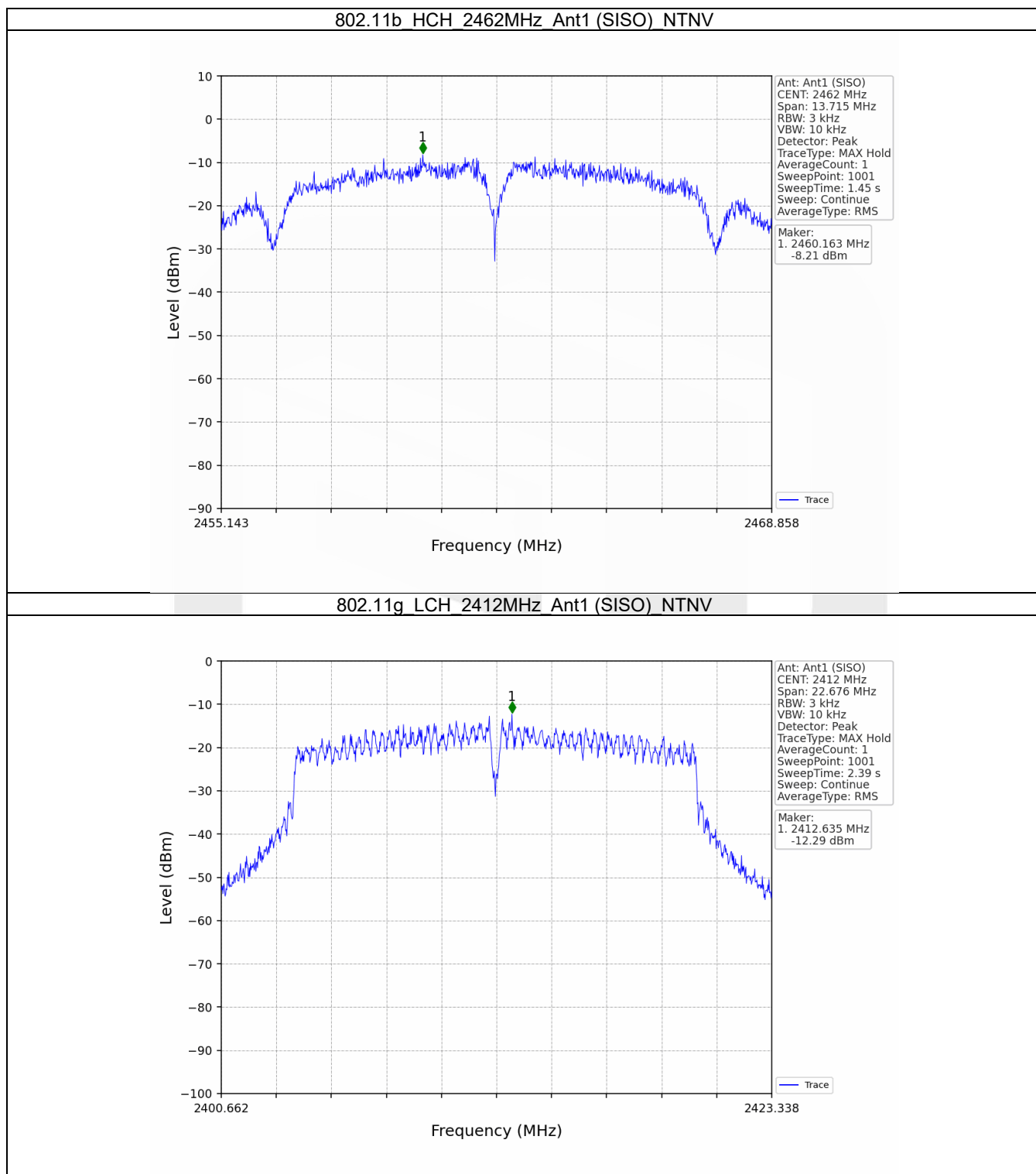
4.1 PSD

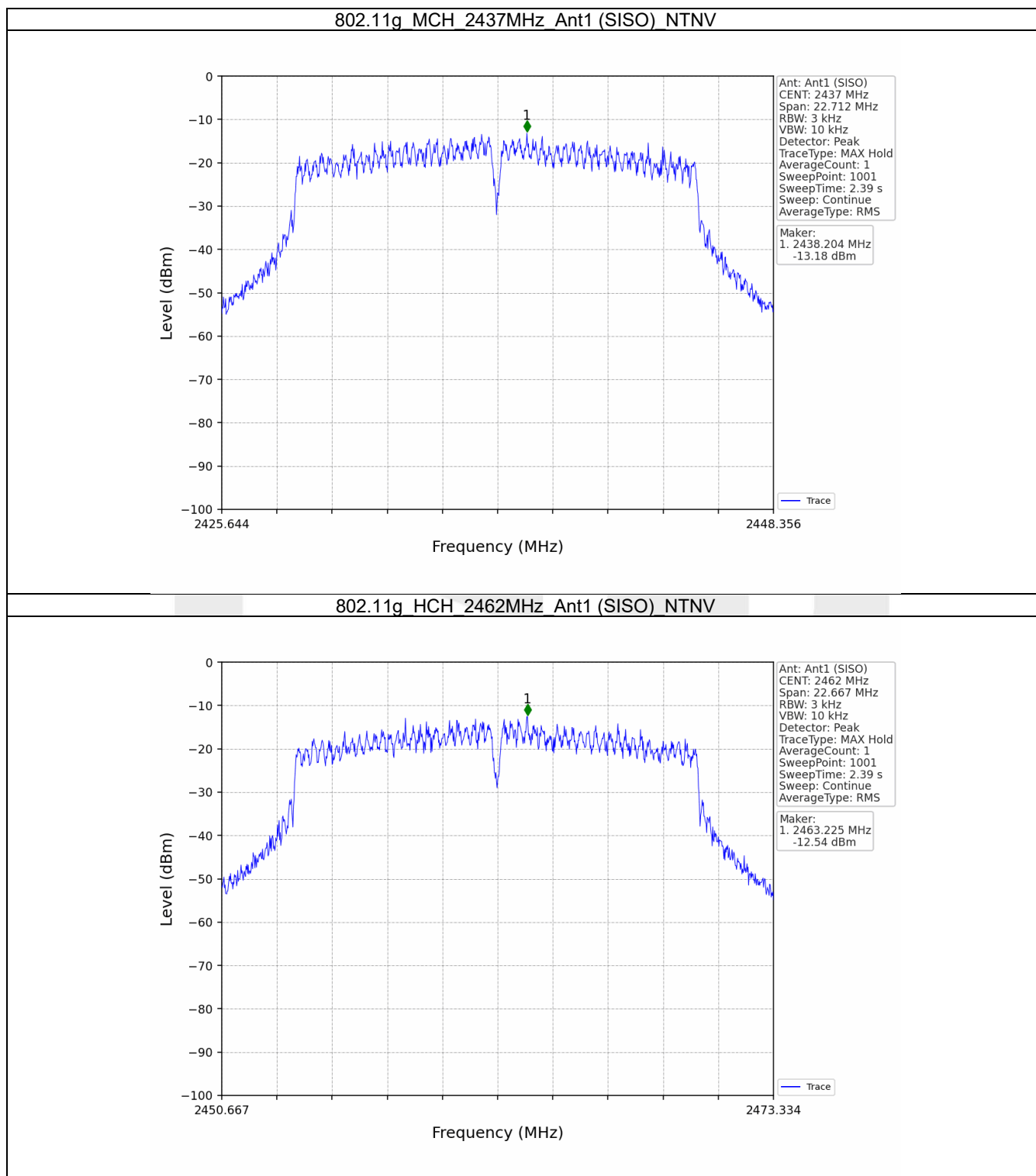
4.1.1 Test Result

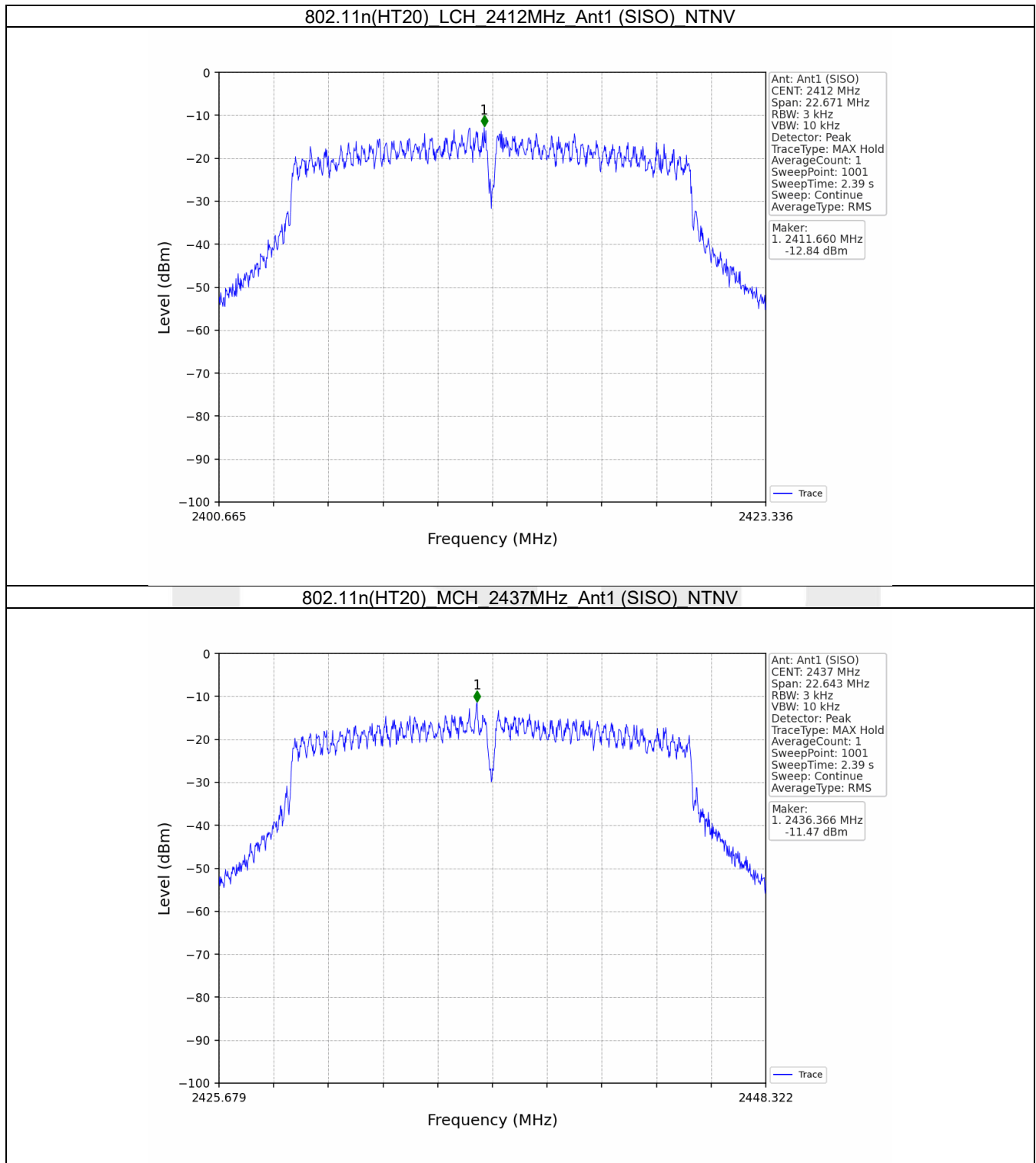
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-8.47	<=8	Pass
		2437	-8.98	<=8	Pass
		2462	-8.21	<=8	Pass
802.11g	SISO	2412	-12.29	<=8	Pass
		2437	-13.18	<=8	Pass
		2462	-12.54	<=8	Pass
802.11n (HT20)	SISO	2412	-12.84	<=8	Pass
		2437	-11.47	<=8	Pass
		2462	-12.69	<=8	Pass

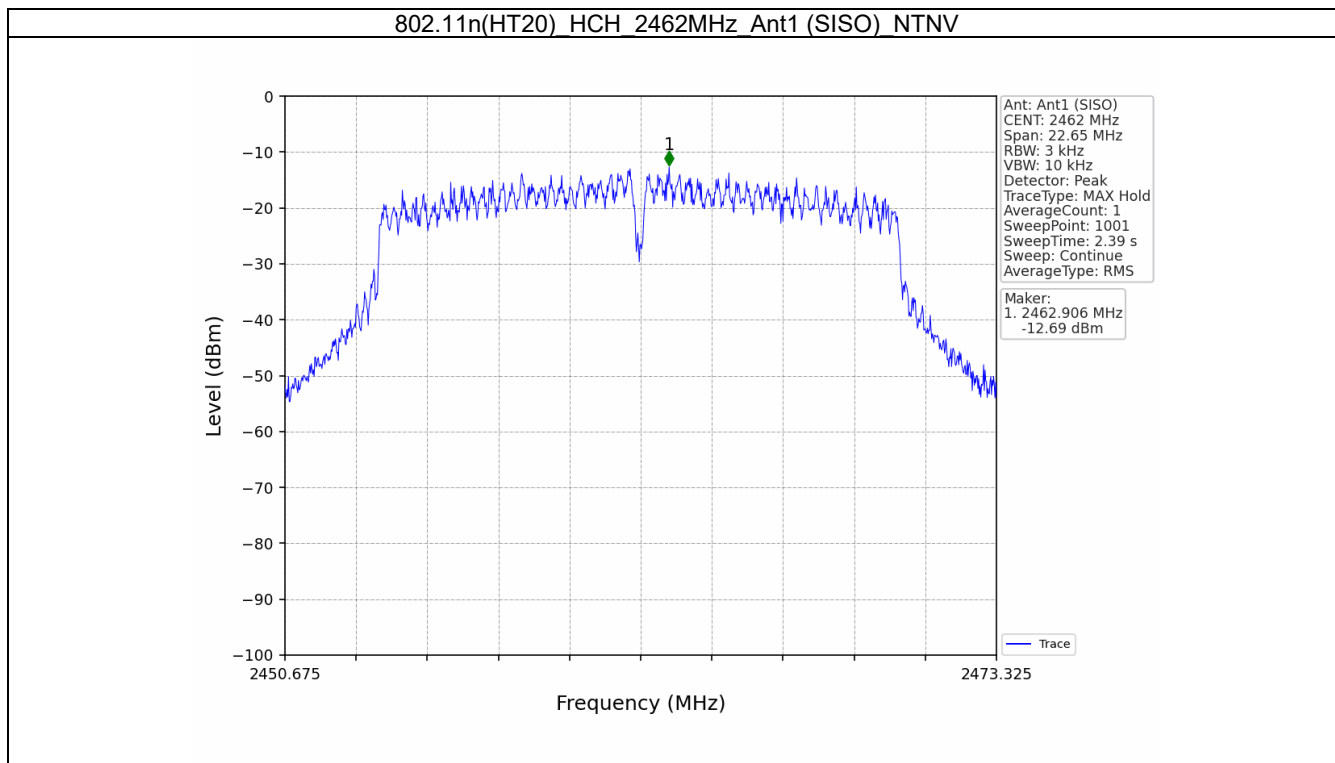
4.1.2 Test Graph











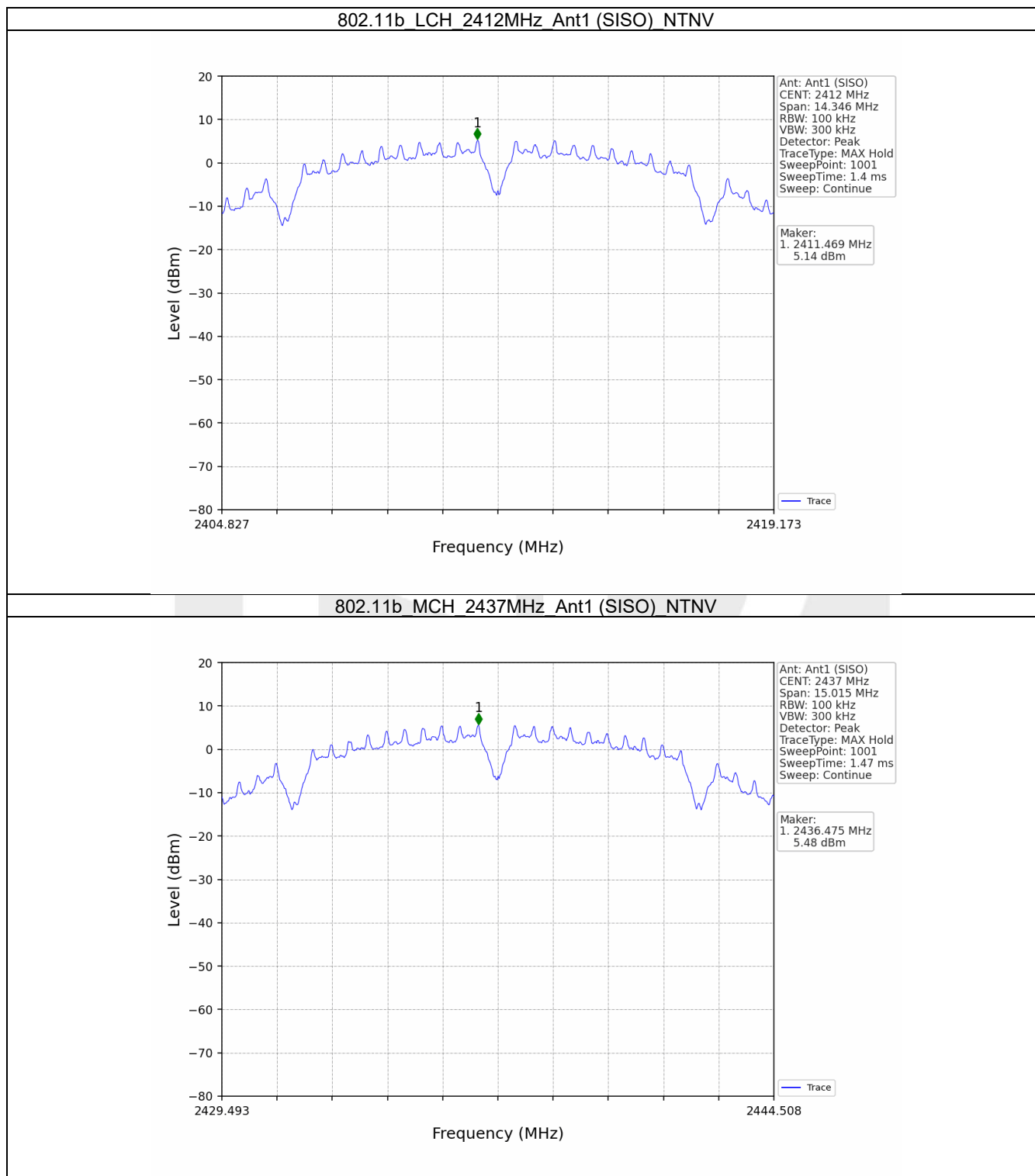
5. Unwanted Emissions In Non-restricted Frequency Bands

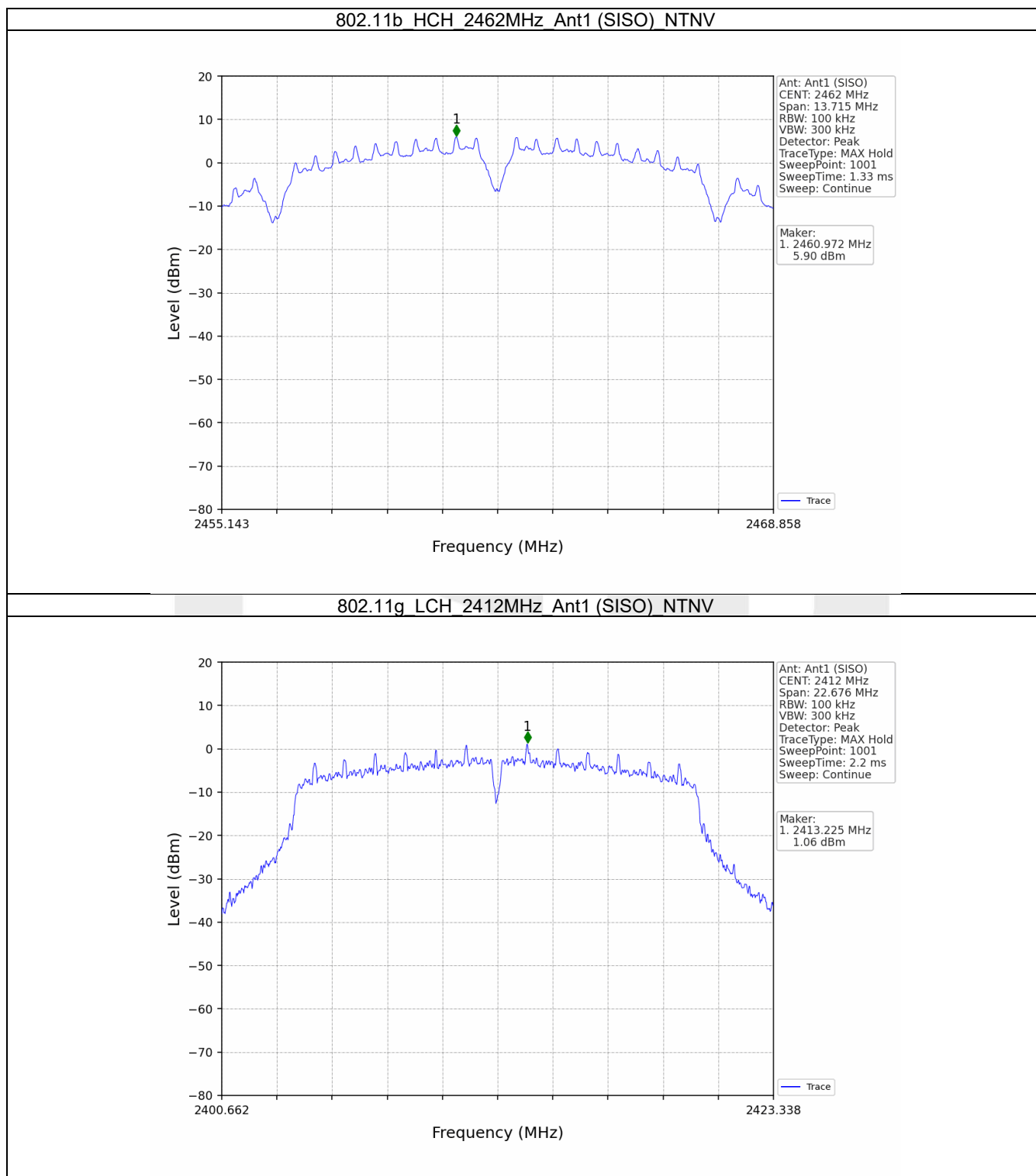
5.1 Ref

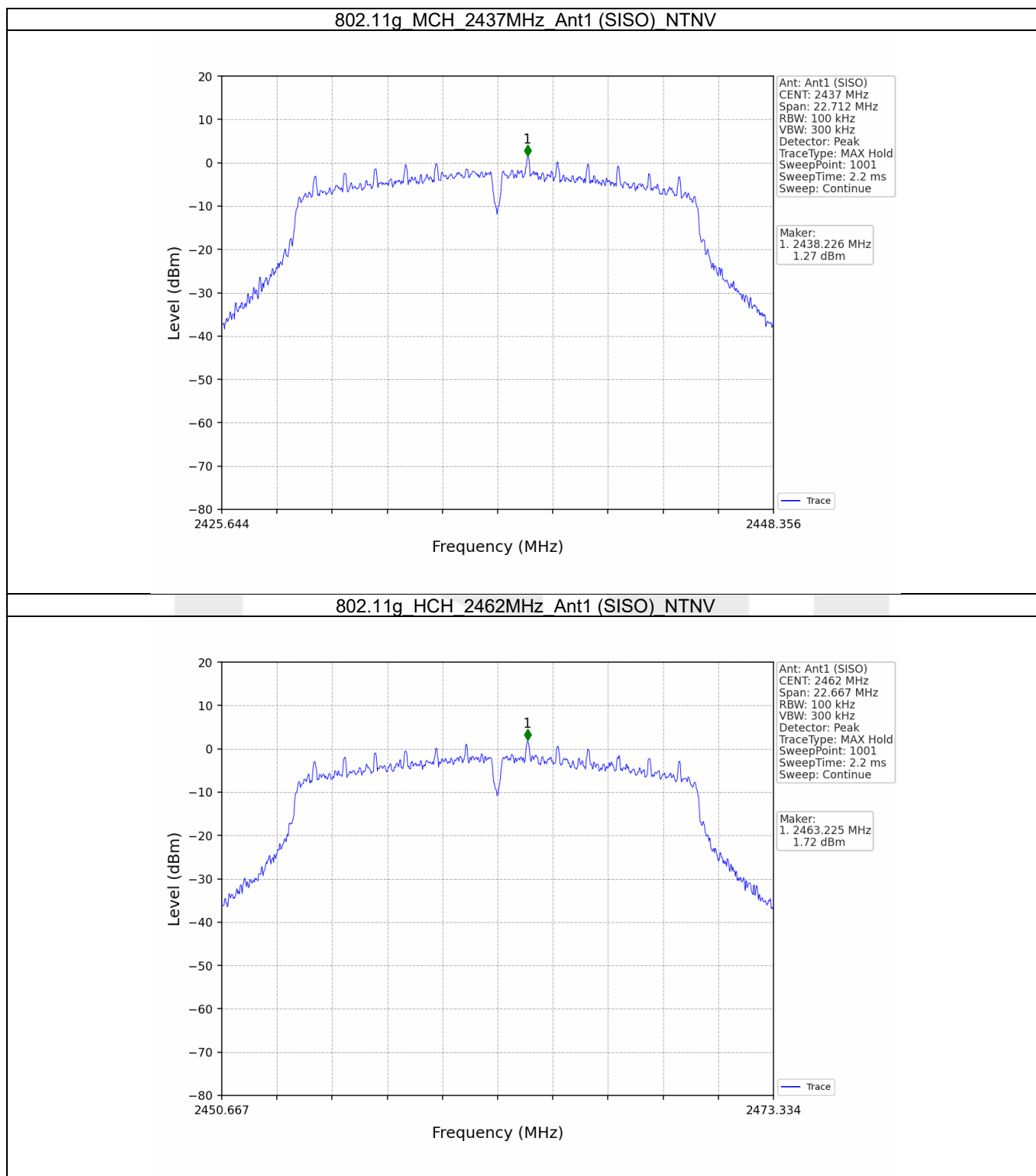
5.1.1 Test Result

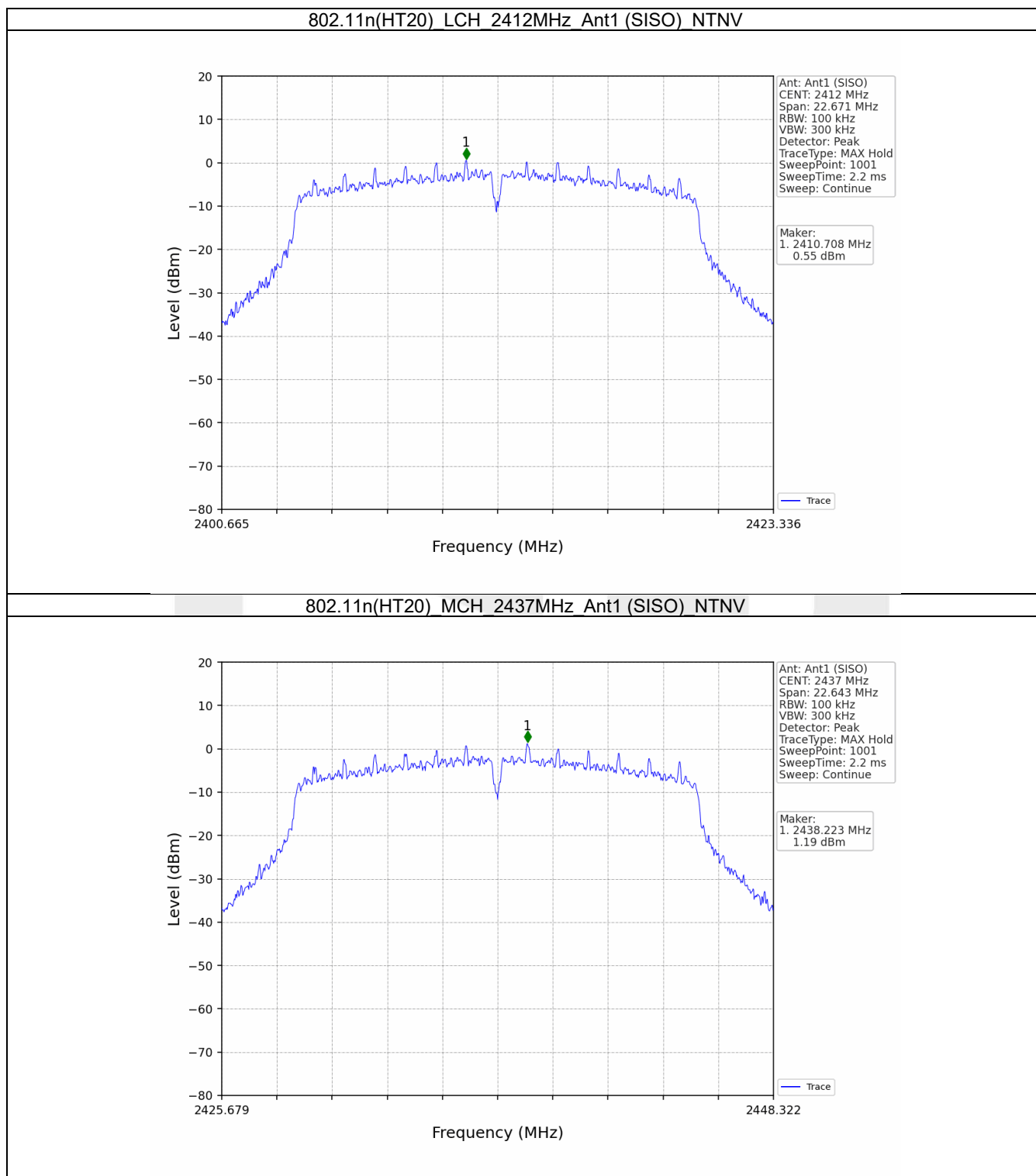
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.14
		2437	1	5.48
		2462	1	5.90
802.11g	SISO	2412	1	1.06
		2437	1	1.27
		2462	1	1.72
802.11n (HT20)	SISO	2412	1	0.55
		2437	1	1.19
		2462	1	1.85
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

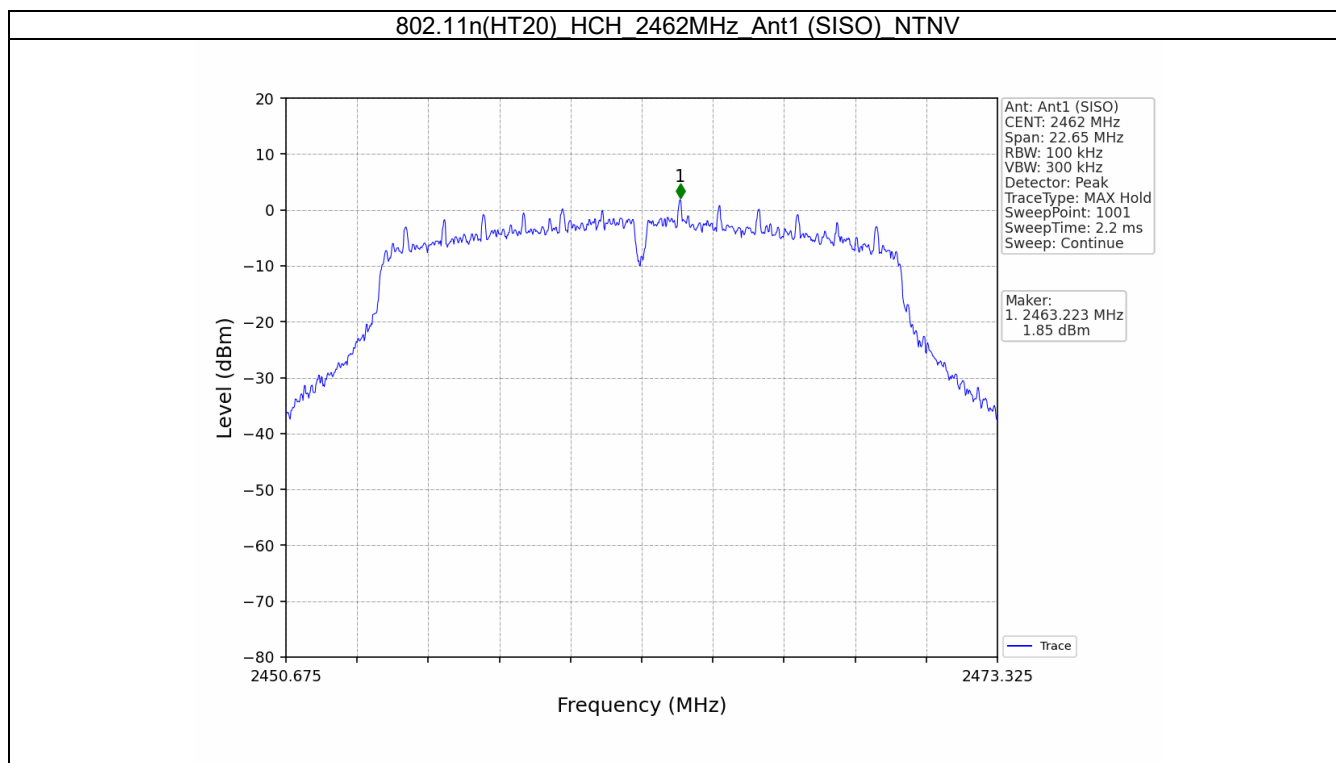
5.1.2 Test Graph









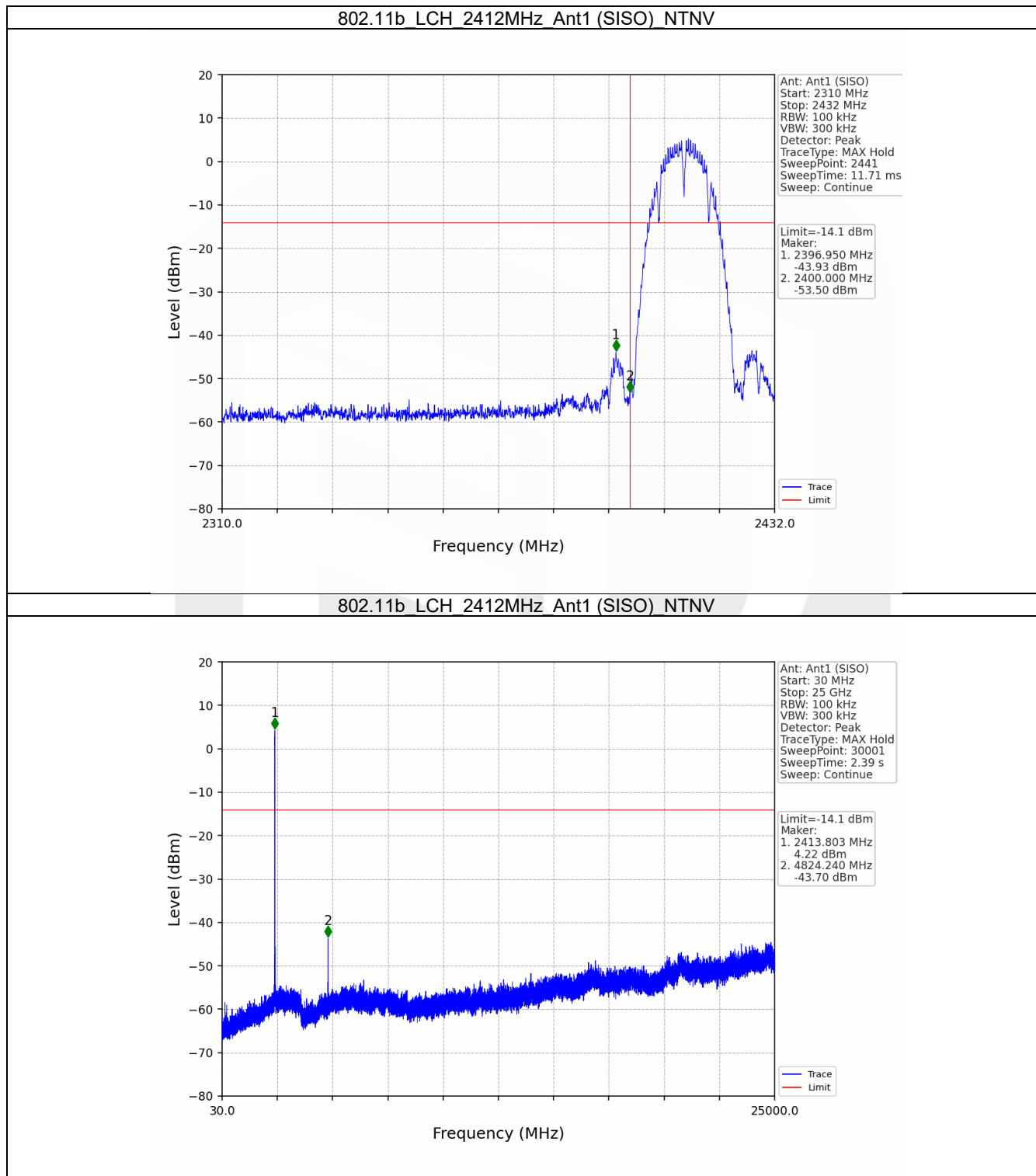


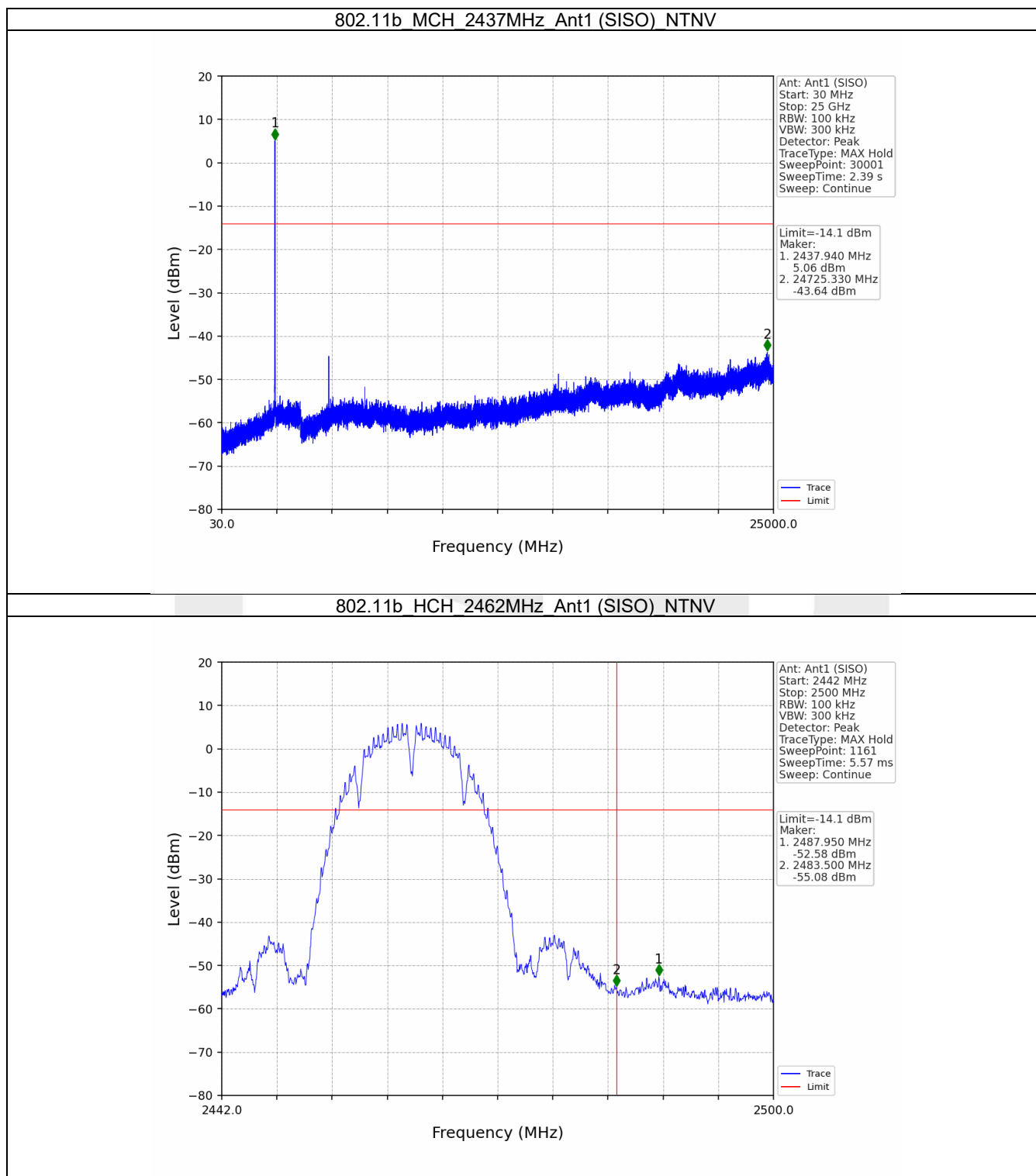
5.2 CSE

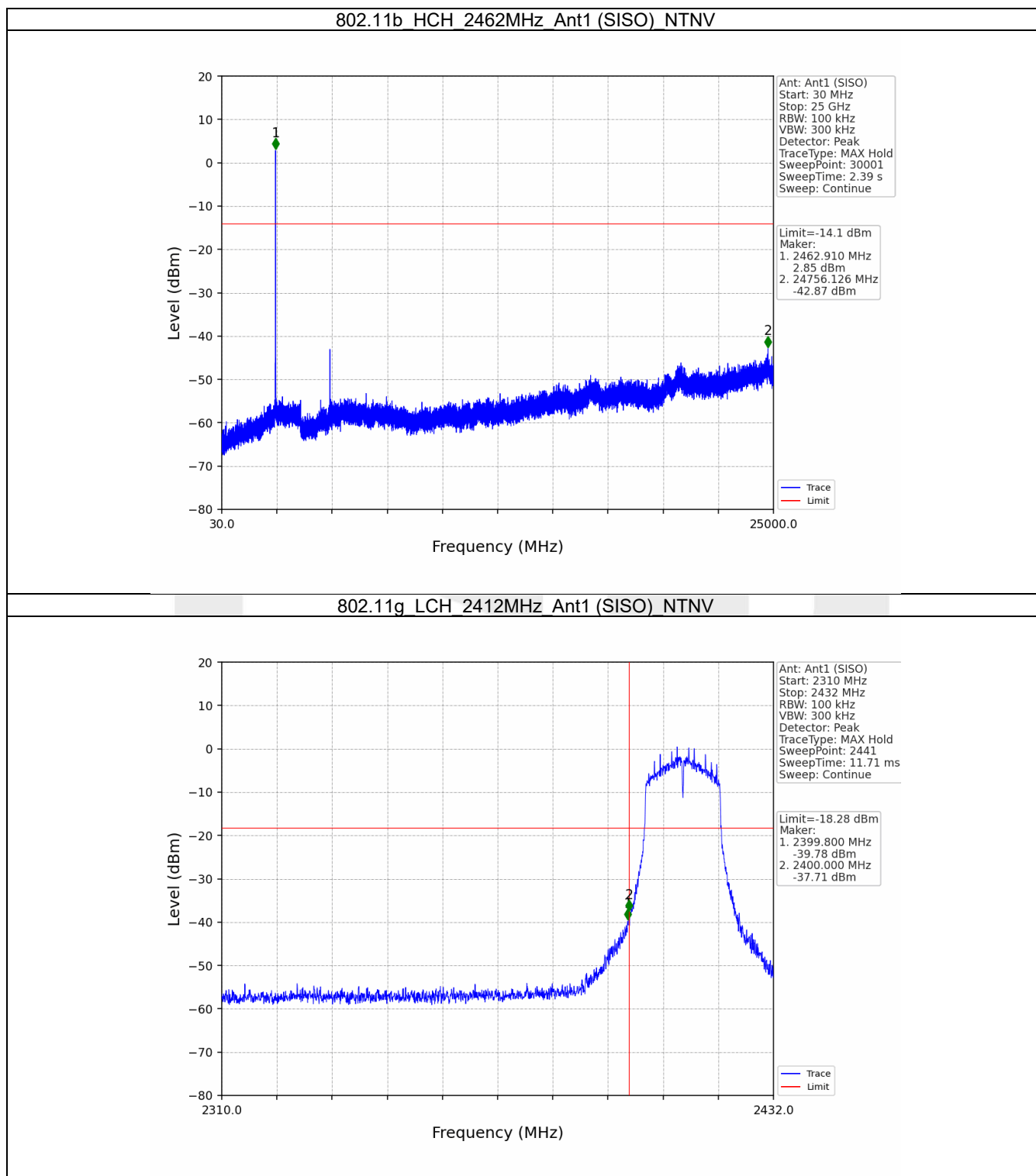
5.2.1 Test Result

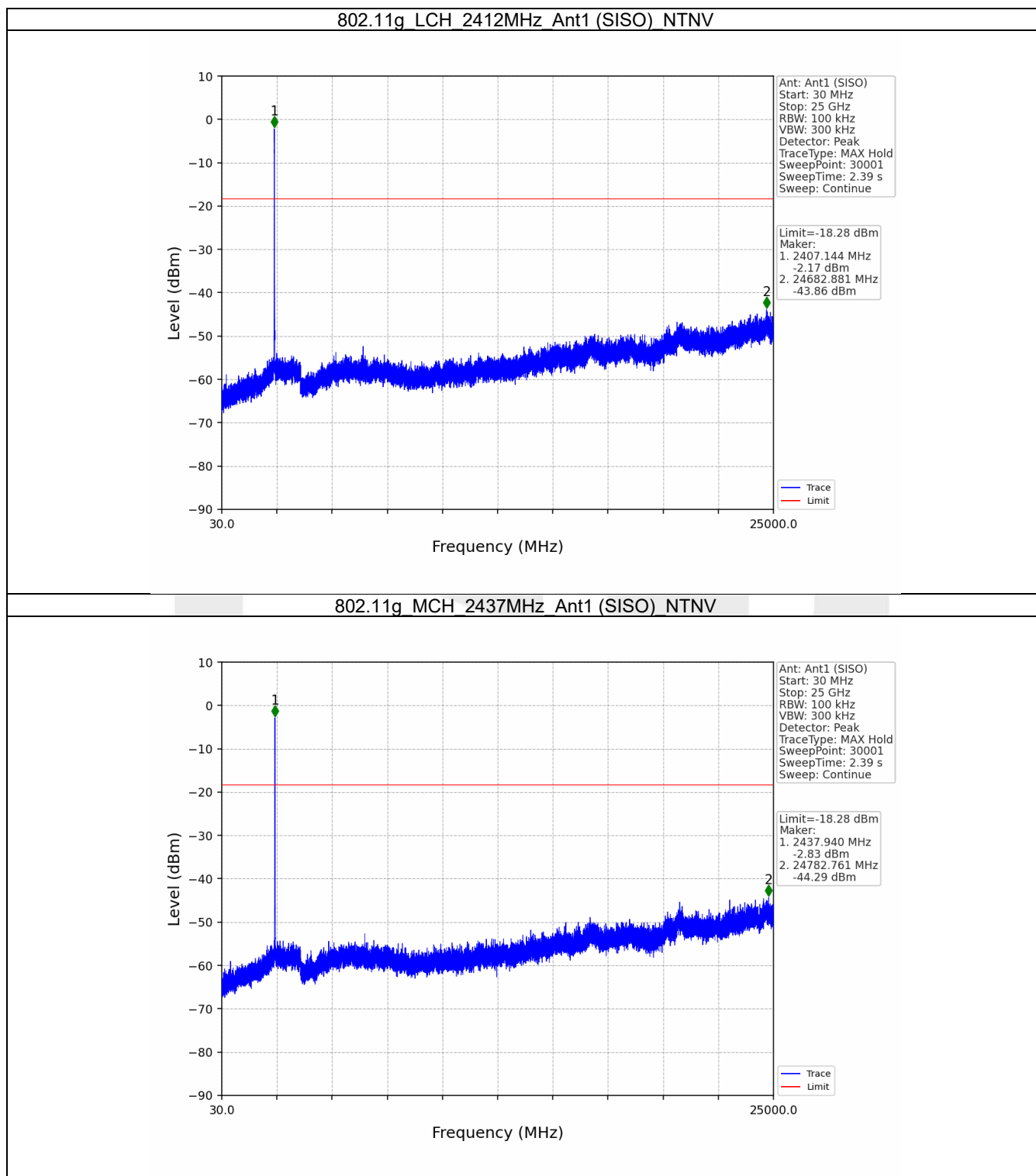
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.90	-14.10	Pass
		2437	1	5.90	-14.10	Pass
		2462	1	5.90	-14.10	Pass
802.11g	SISO	2412	1	1.72	-18.28	Pass
		2437	1	1.72	-18.28	Pass
		2462	1	1.72	-18.28	Pass
802.11n (HT20)	SISO	2412	1	1.85	-18.15	Pass
		2437	1	1.85	-18.15	Pass
		2462	1	1.85	-18.15	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.						

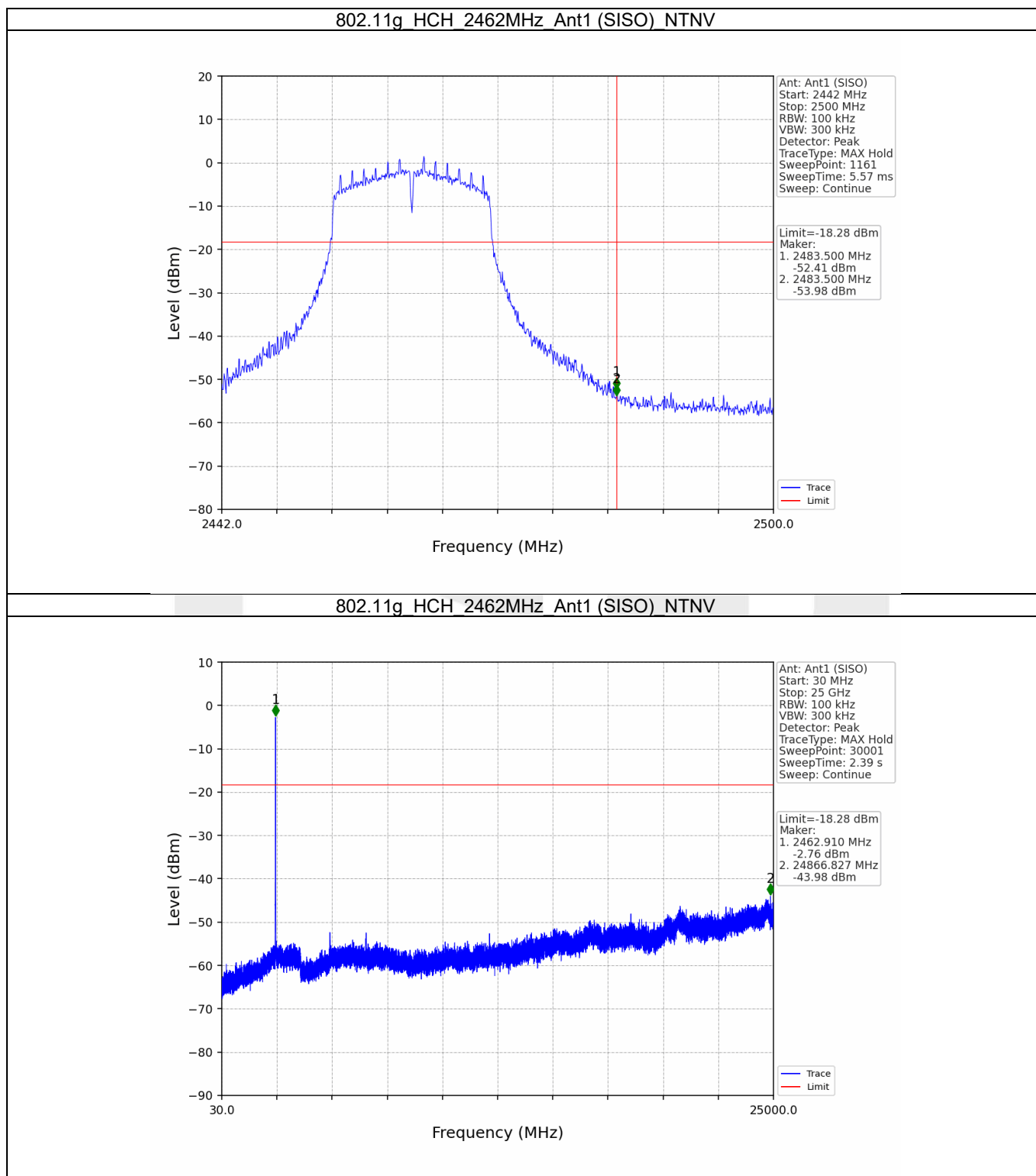
5.2.2 Test Graph

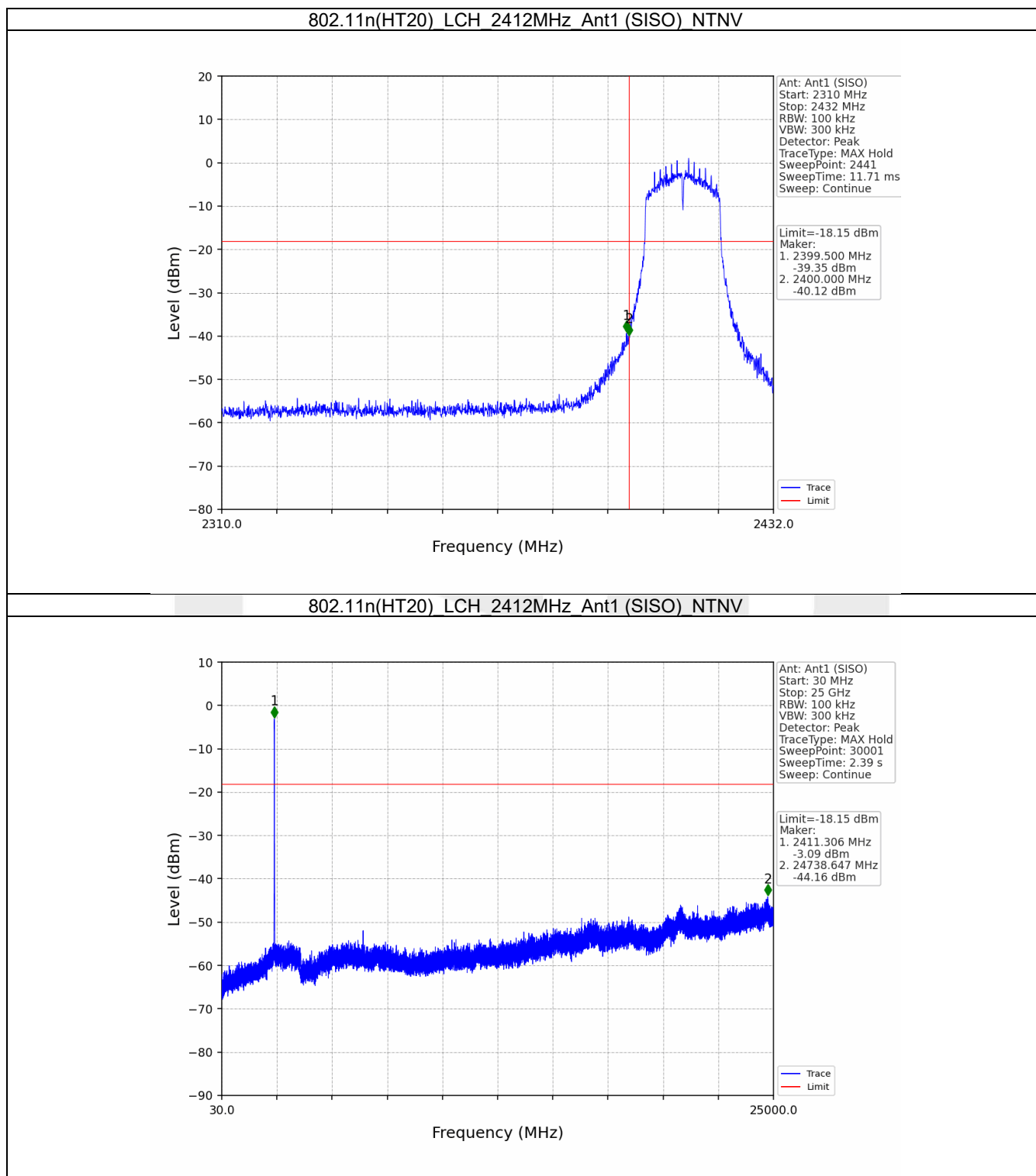


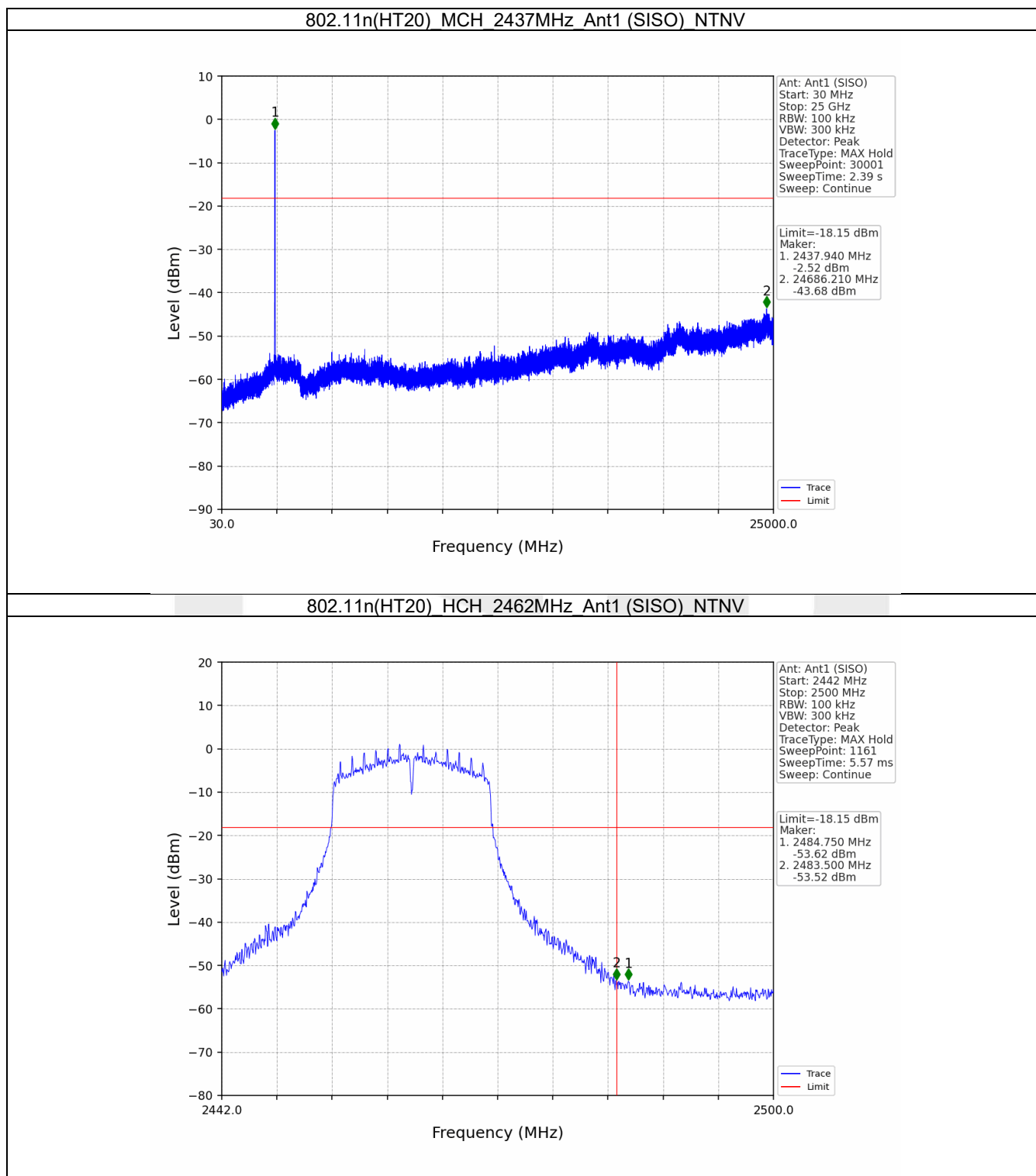


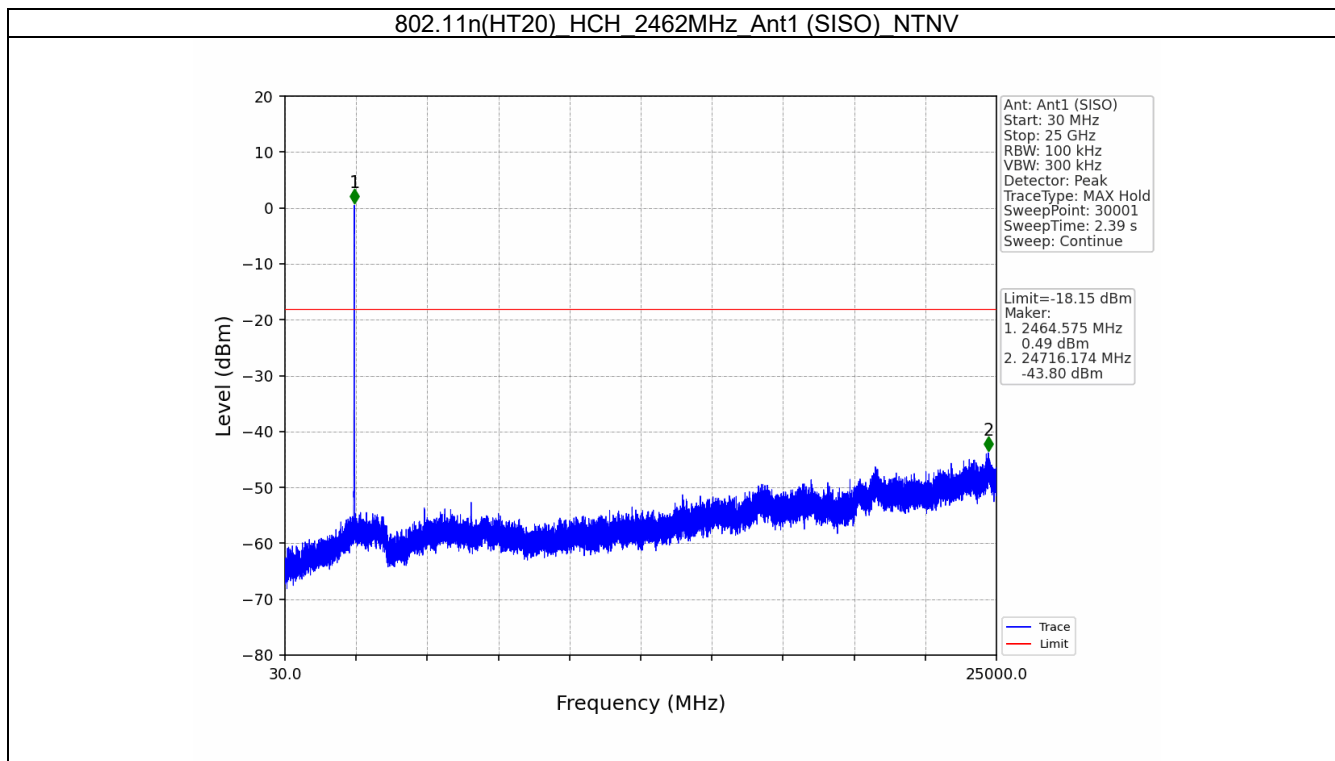












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