

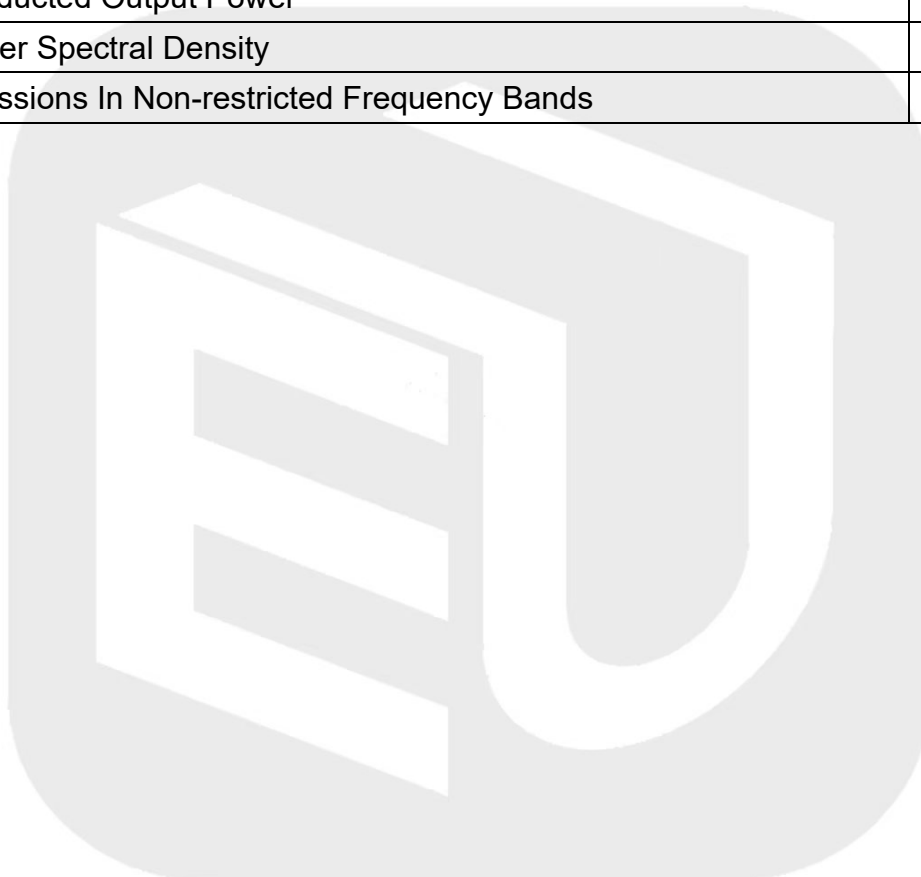
ANNEX E TEST DATA

For

Project No.:	8229EU010601W
Client:	TZUMI Electronics,LLC
Product Name:	Projector
Model No.:	9520
FCC ID:	2AON7-9520
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-05-13

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



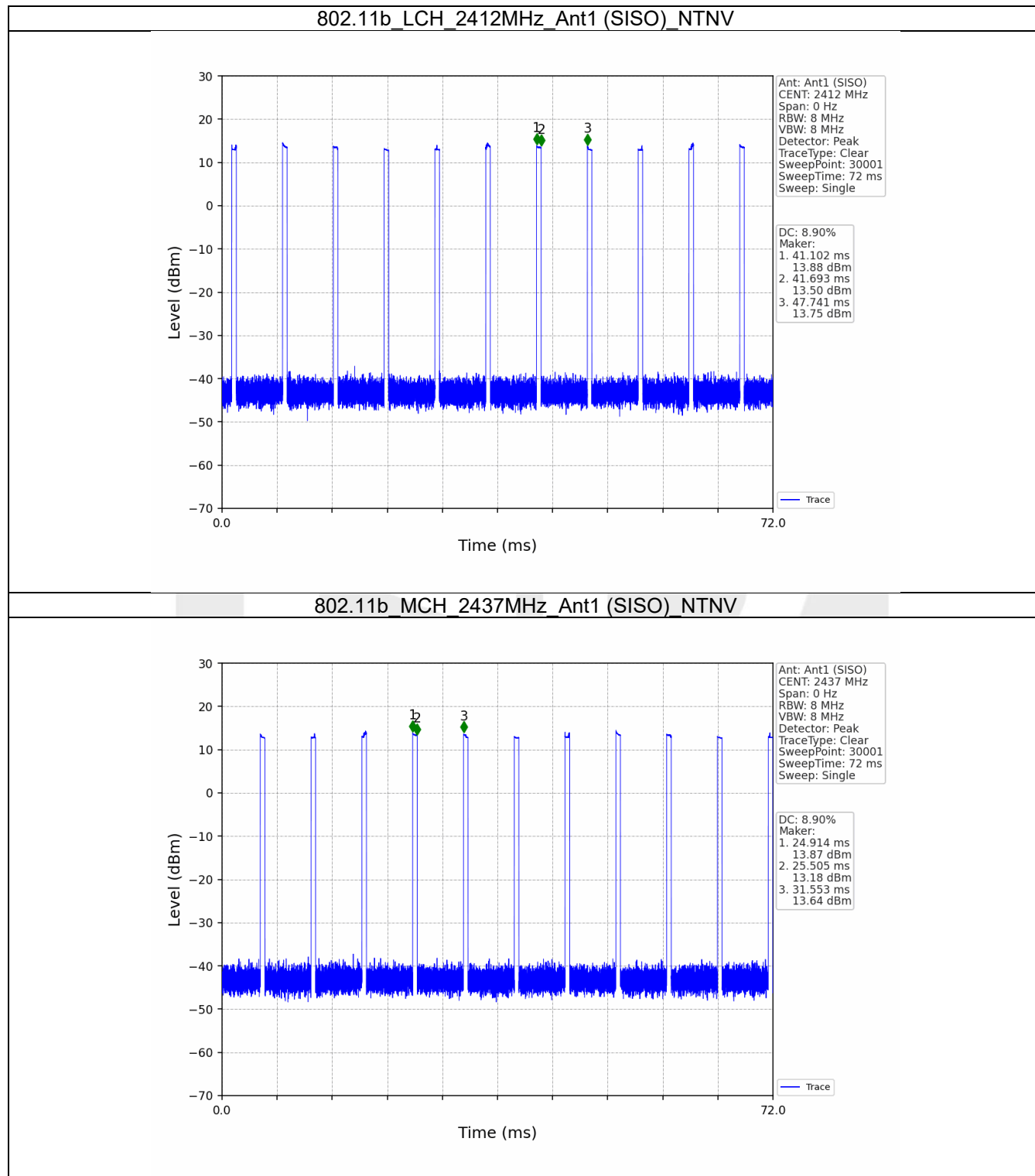
1. Duty Cycle

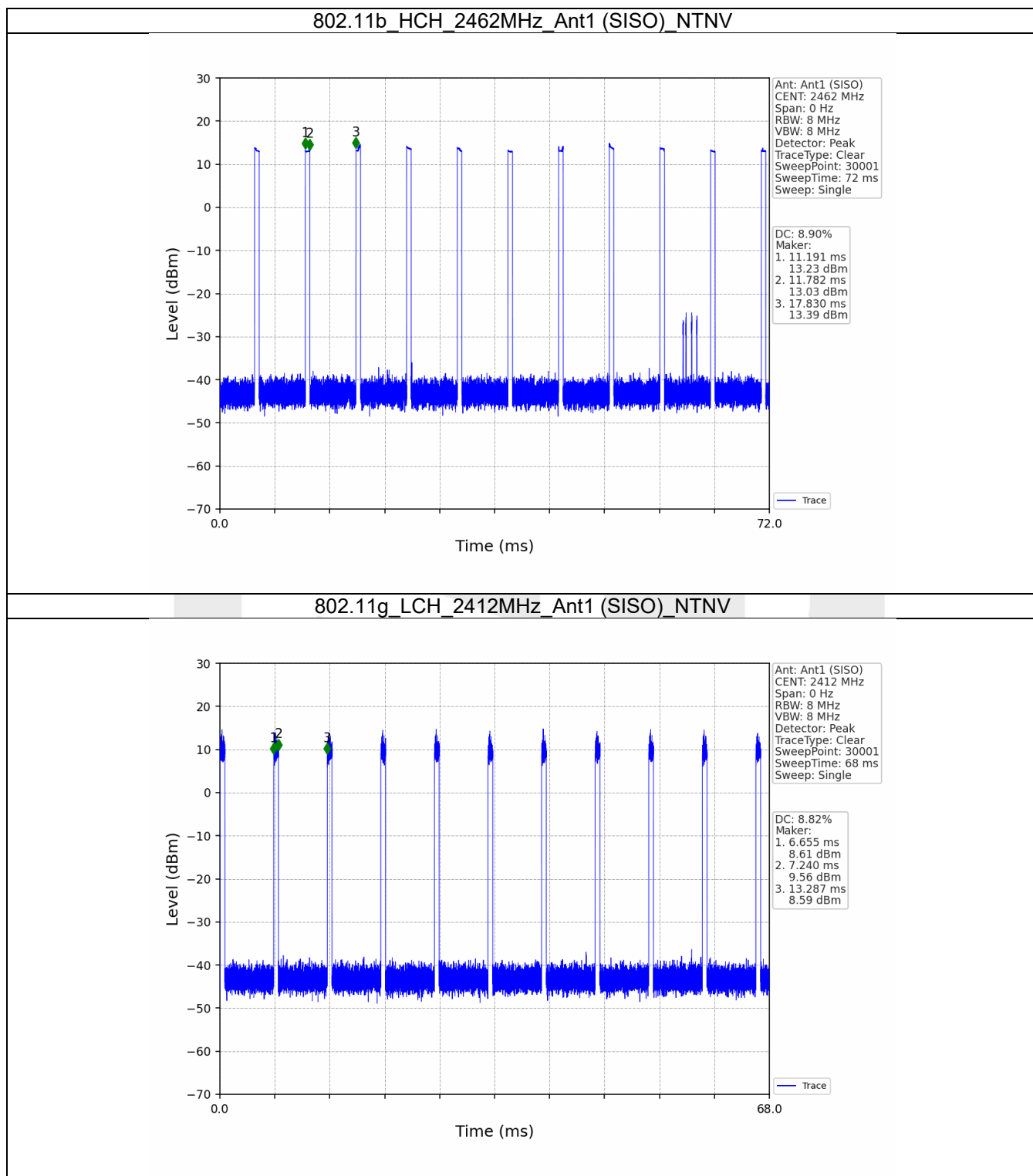
1.1 Ant1

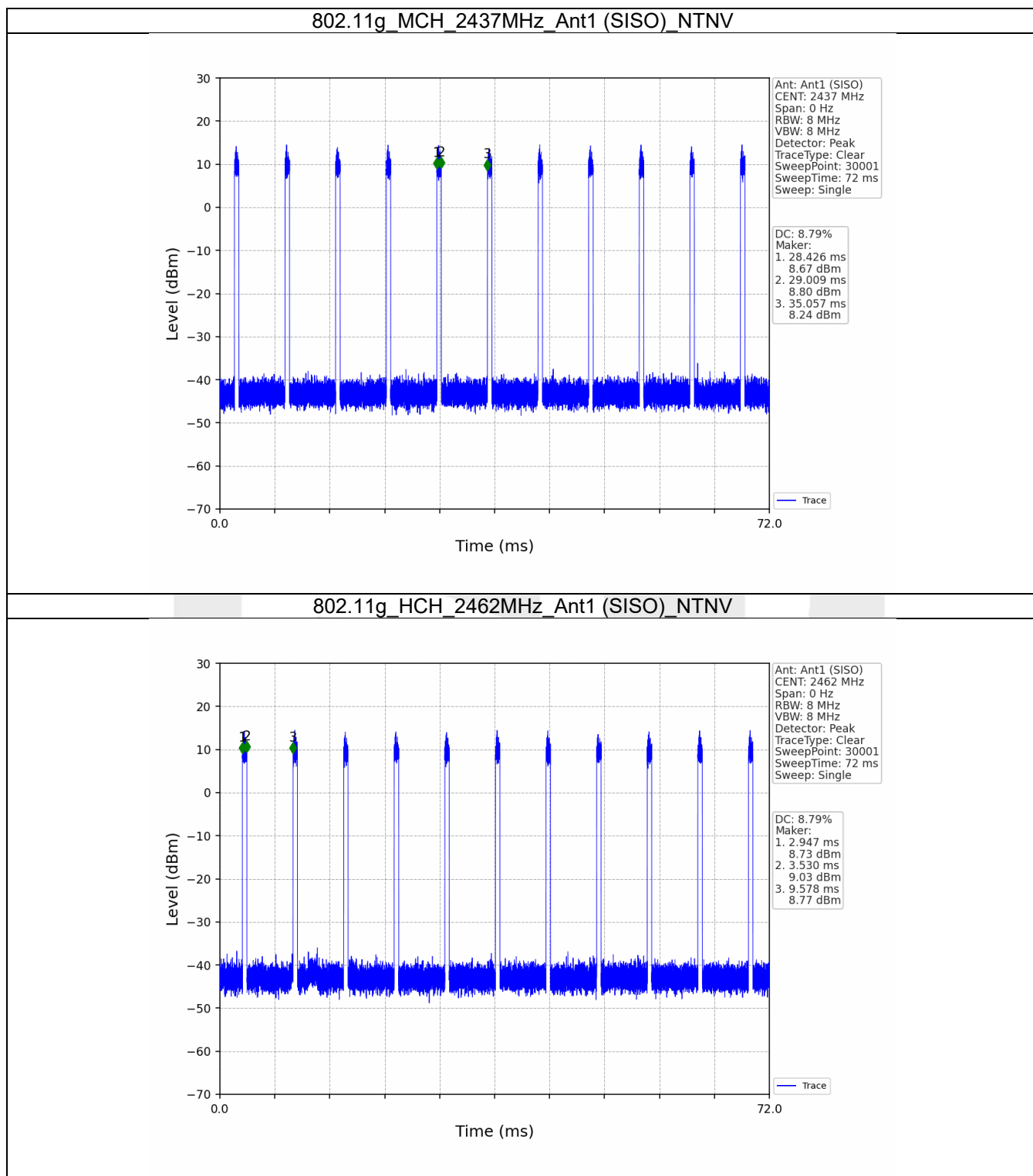
1.1.1 Test Result

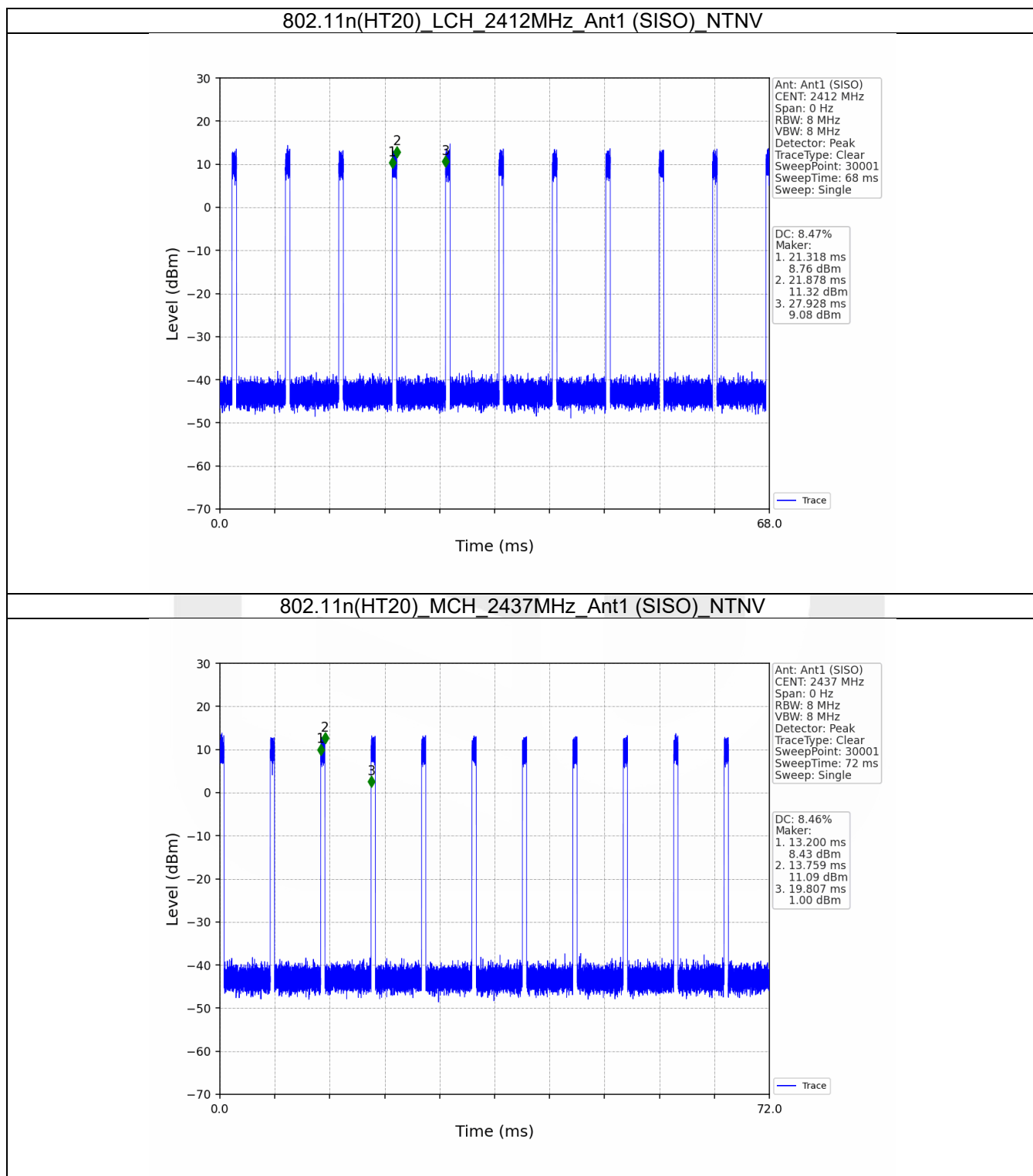
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	0.591	6.639	8.90	10.51	0.04
		2437	0.591	6.639	8.90	10.51	0.04
		2462	0.591	6.639	8.90	10.51	0.04
802.11g	SISO	2412	0.585	6.632	8.82	10.54	0.03
		2437	0.583	6.631	8.79	10.56	0.04
		2462	0.583	6.631	8.79	10.56	0.04
802.11n (HT20)	SISO	2412	0.560	6.610	8.47	10.72	0.03
		2437	0.559	6.607	8.46	10.73	0.03
		2462	0.559	6.607	8.46	10.73	0.03
802.11n (HT40)	SISO	2422	0.581	6.629	8.76	10.57	0.00
		2437	0.580	6.628	8.75	10.58	0.00
		2452	0.580	6.628	8.75	10.58	0.00

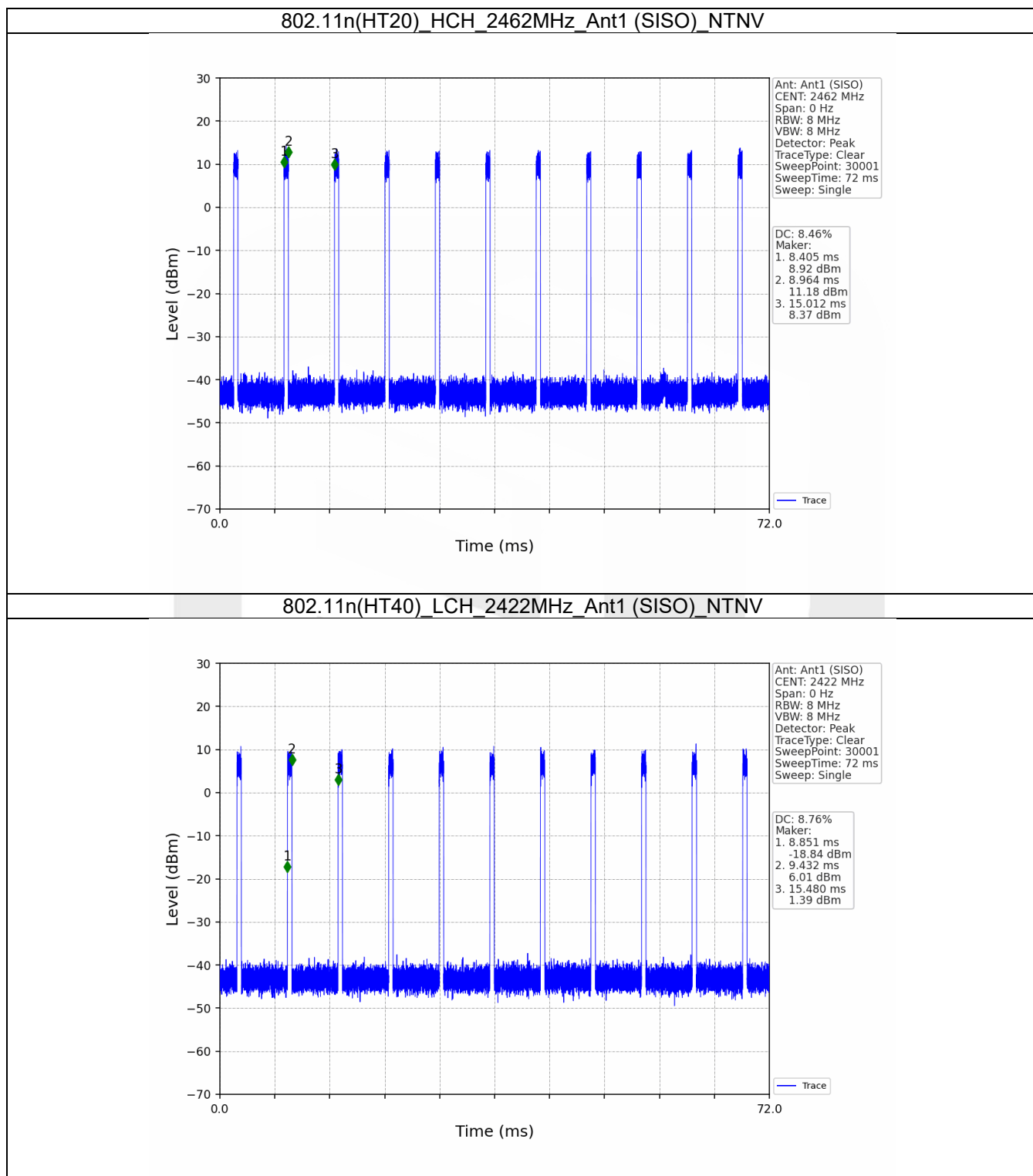
1.1.2 Test Graph

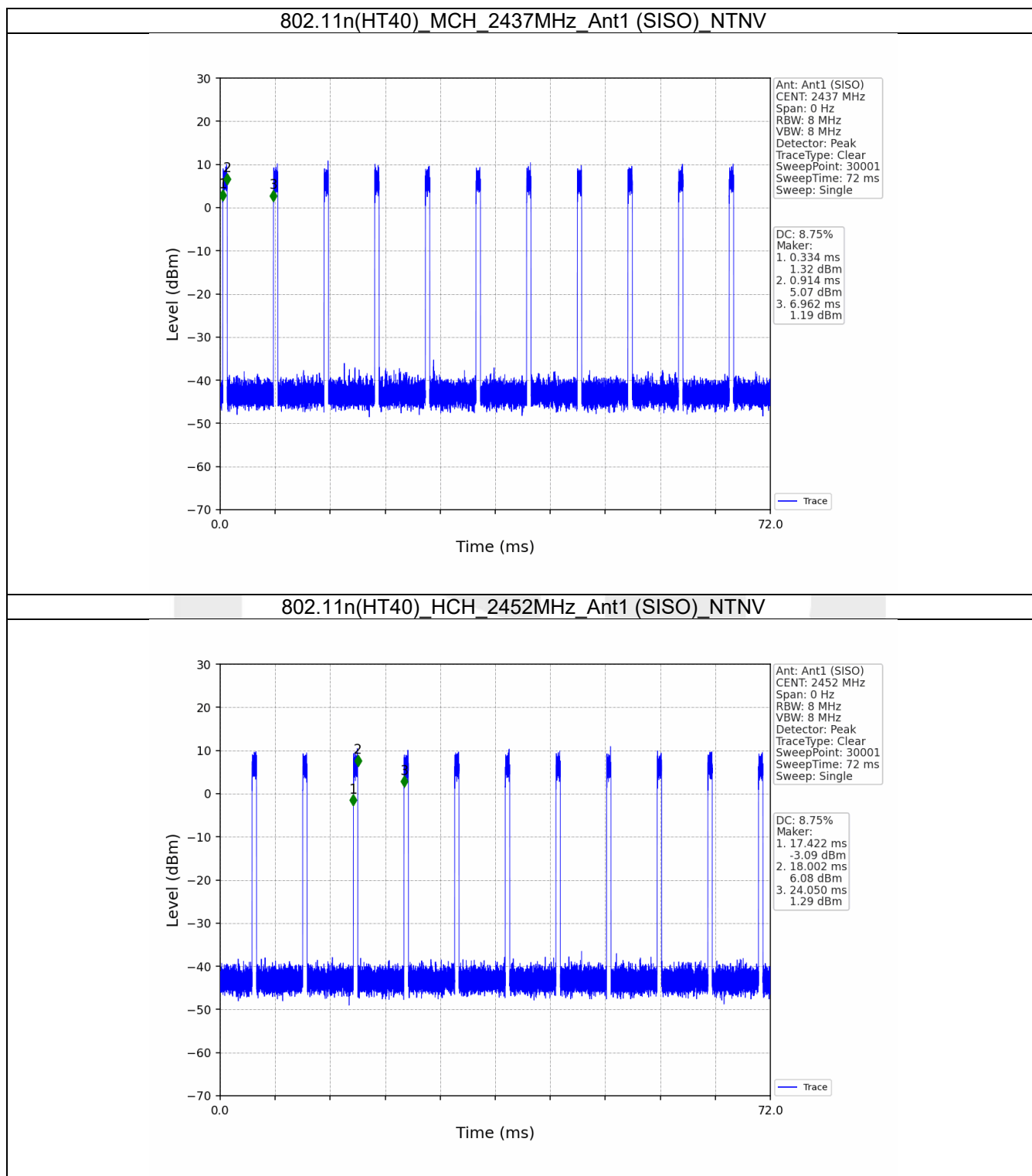












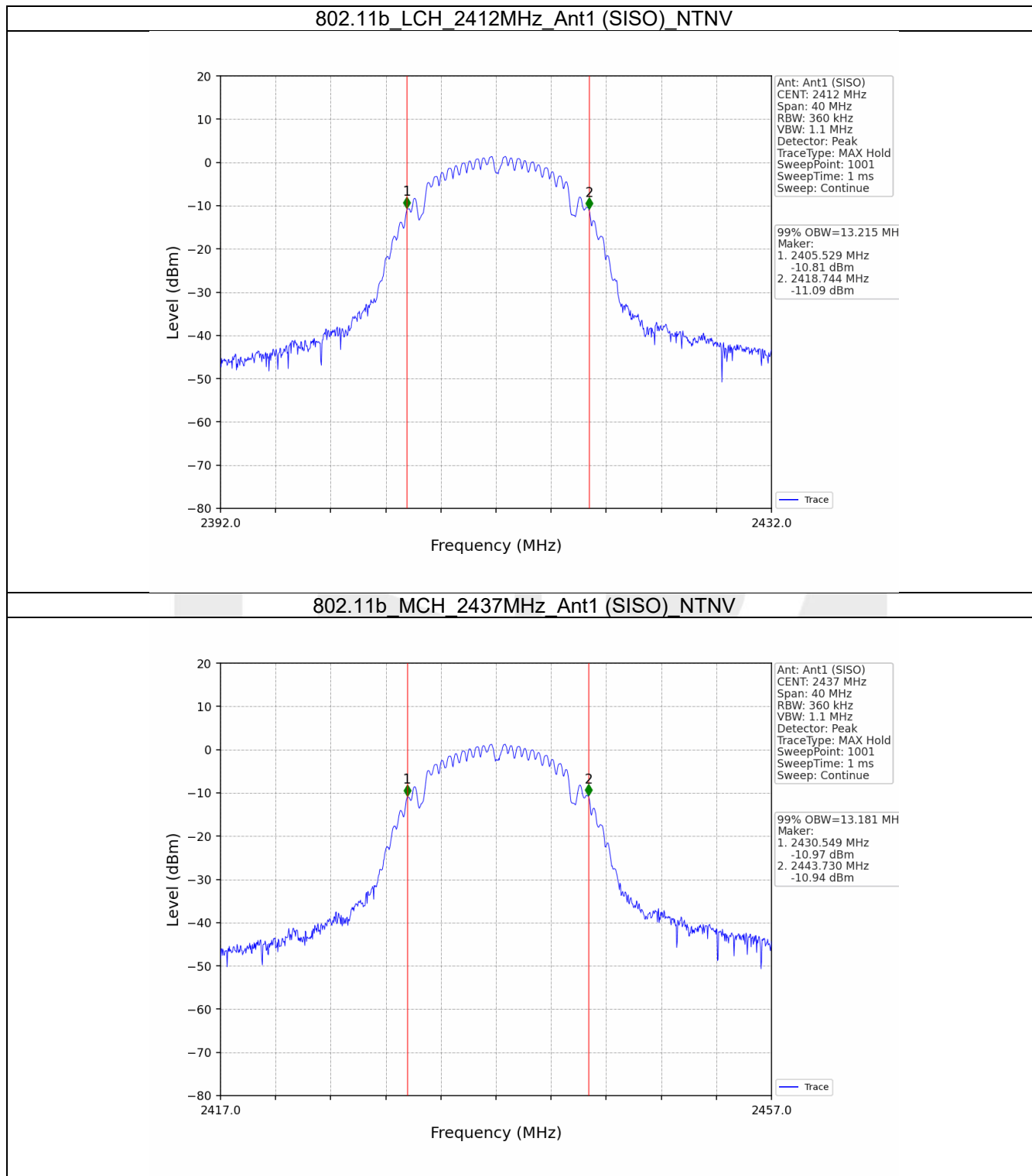
2. Bandwidth

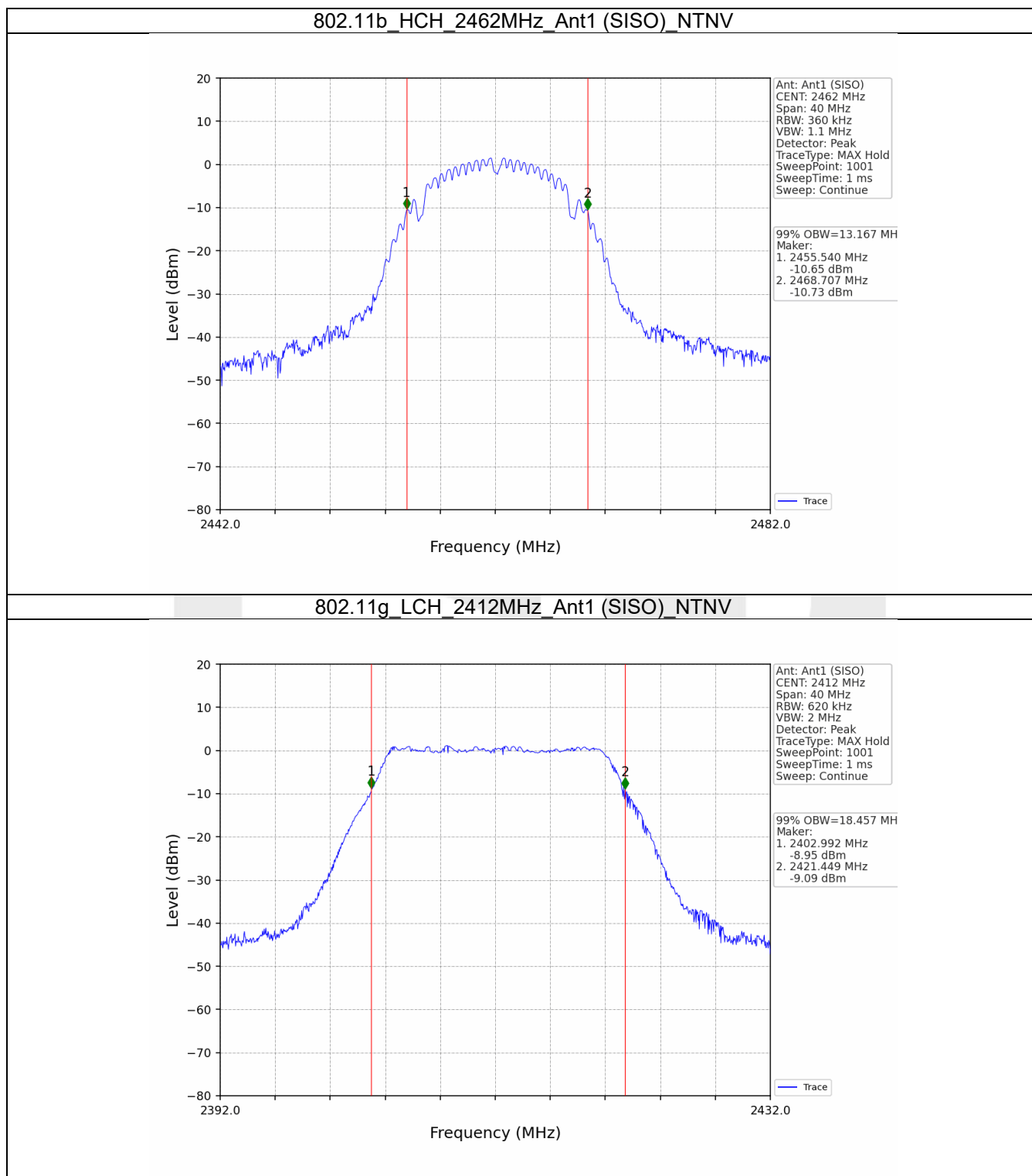
2.1 OBW

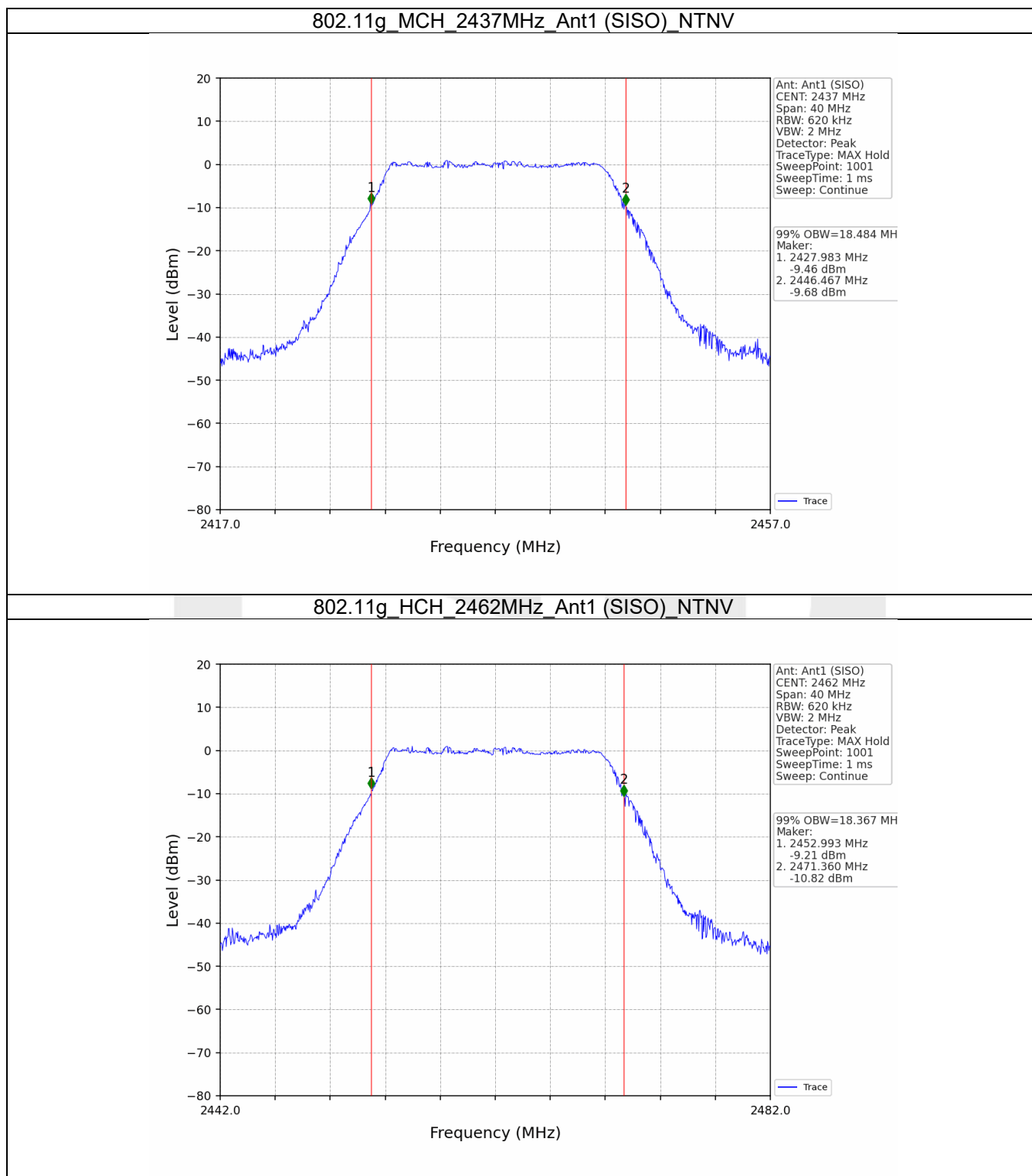
2.1.1 Test Result

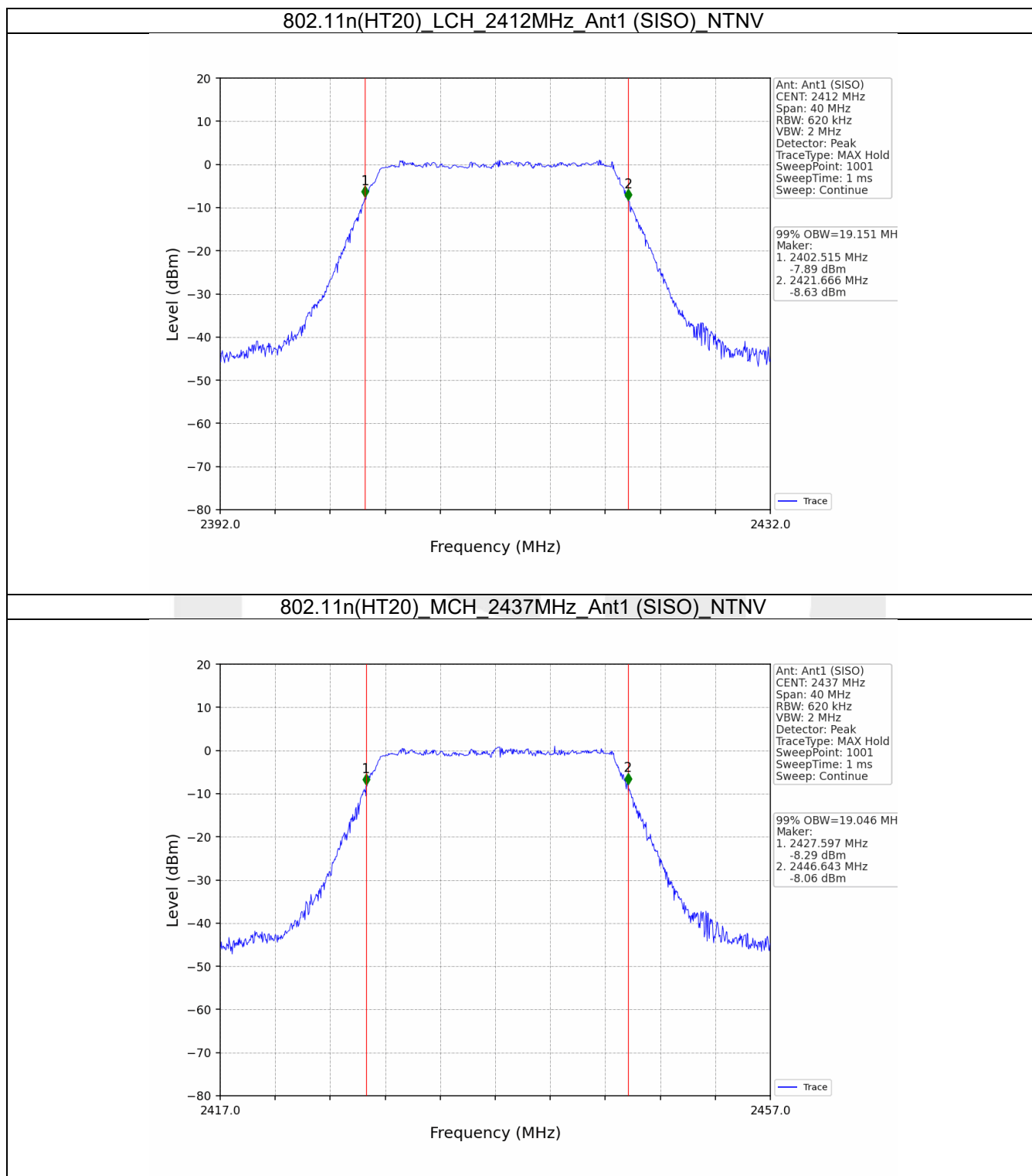
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.215	/	Pass
		2437	1	13.181	/	Pass
		2462	1	13.167	/	Pass
802.11g	SISO	2412	1	18.457	/	Pass
		2437	1	18.484	/	Pass
		2462	1	18.367	/	Pass
802.11n (HT20)	SISO	2412	1	19.151	/	Pass
		2437	1	19.046	/	Pass
		2462	1	19.028	/	Pass
802.11n (HT40)	SISO	2422	1	38.822	/	Pass
		2437	1	38.664	/	Pass
		2452	1	38.413	/	Pass

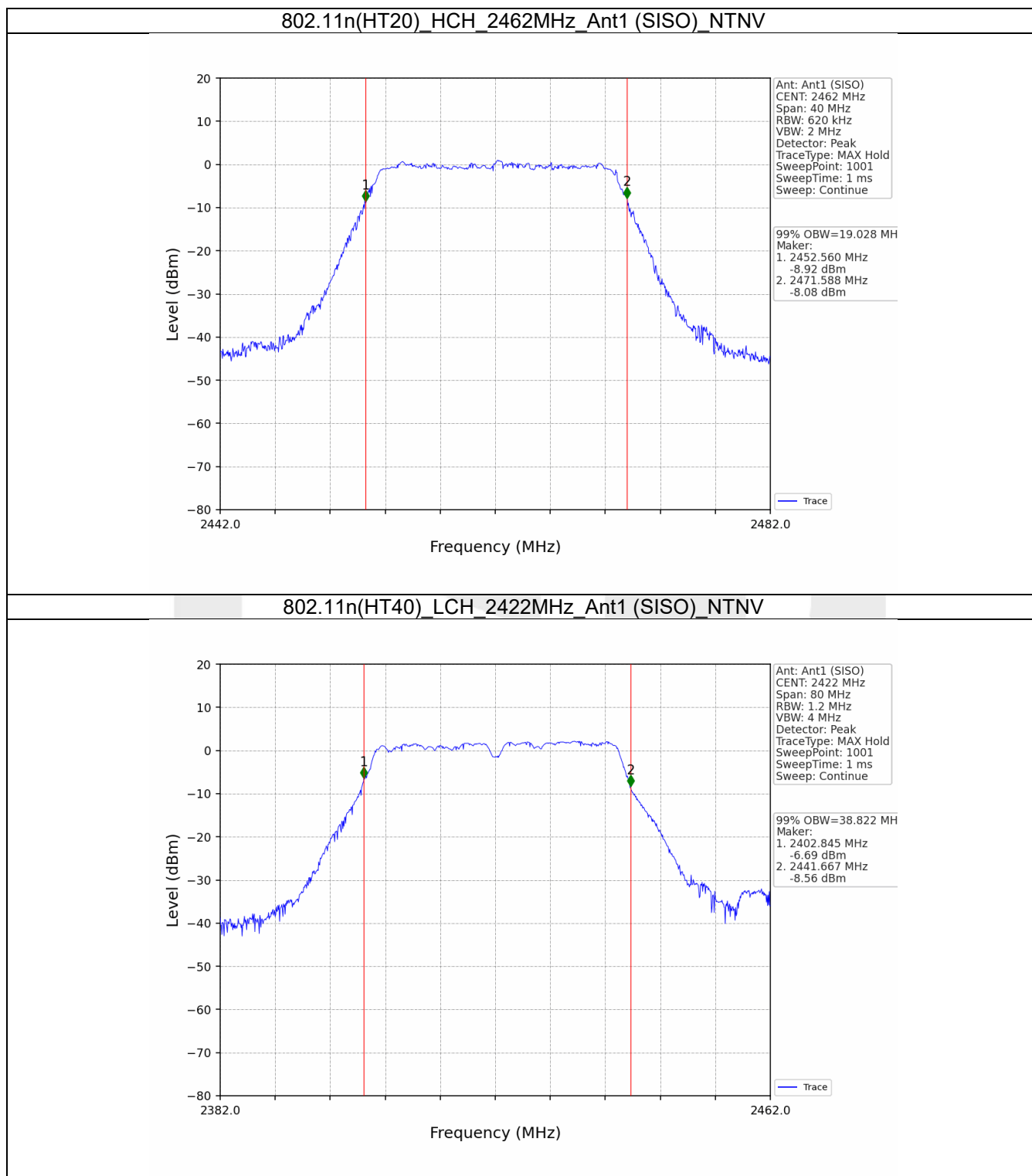
2.1.2 Test Graph

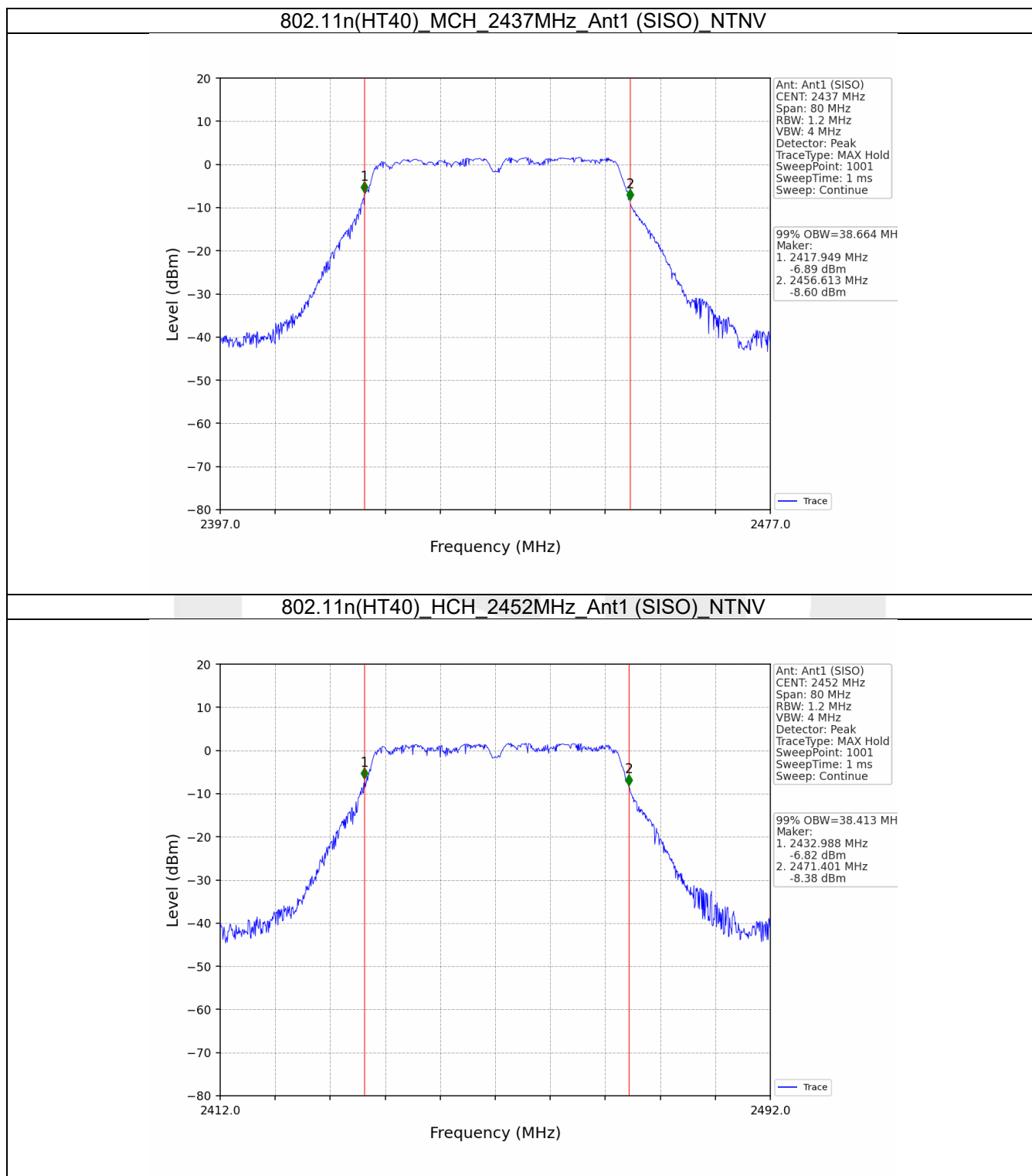










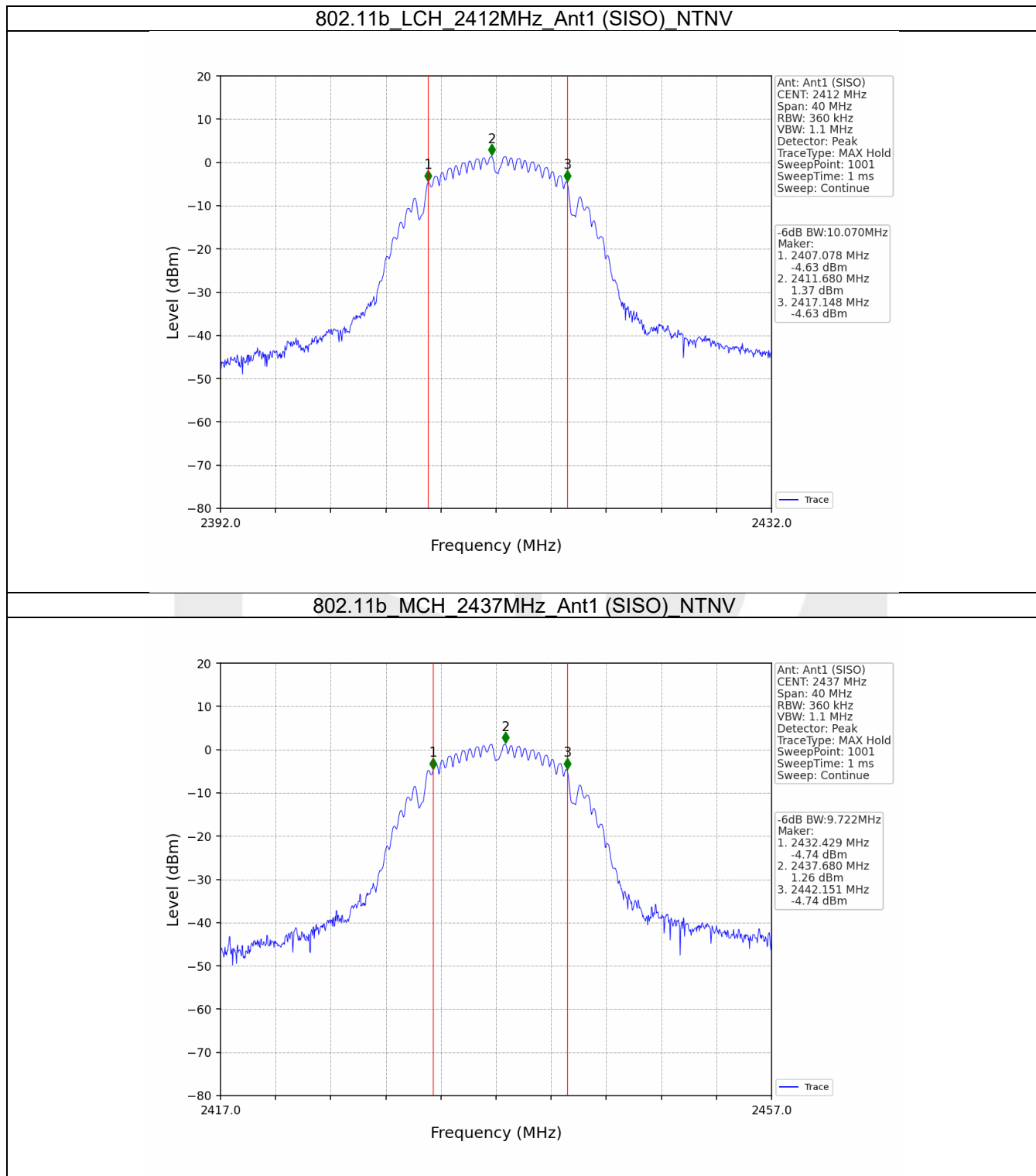


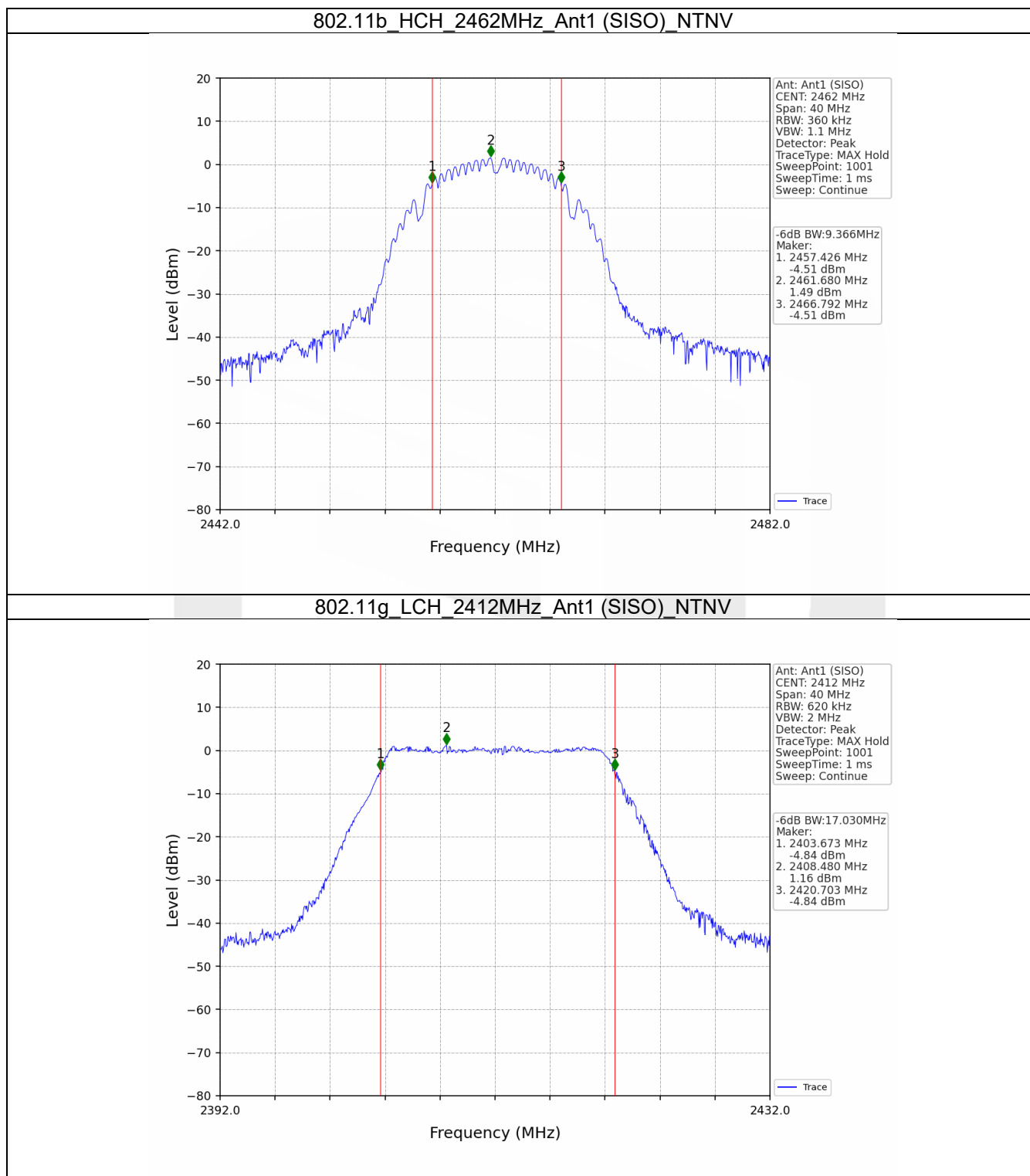
2.2 6dB BW

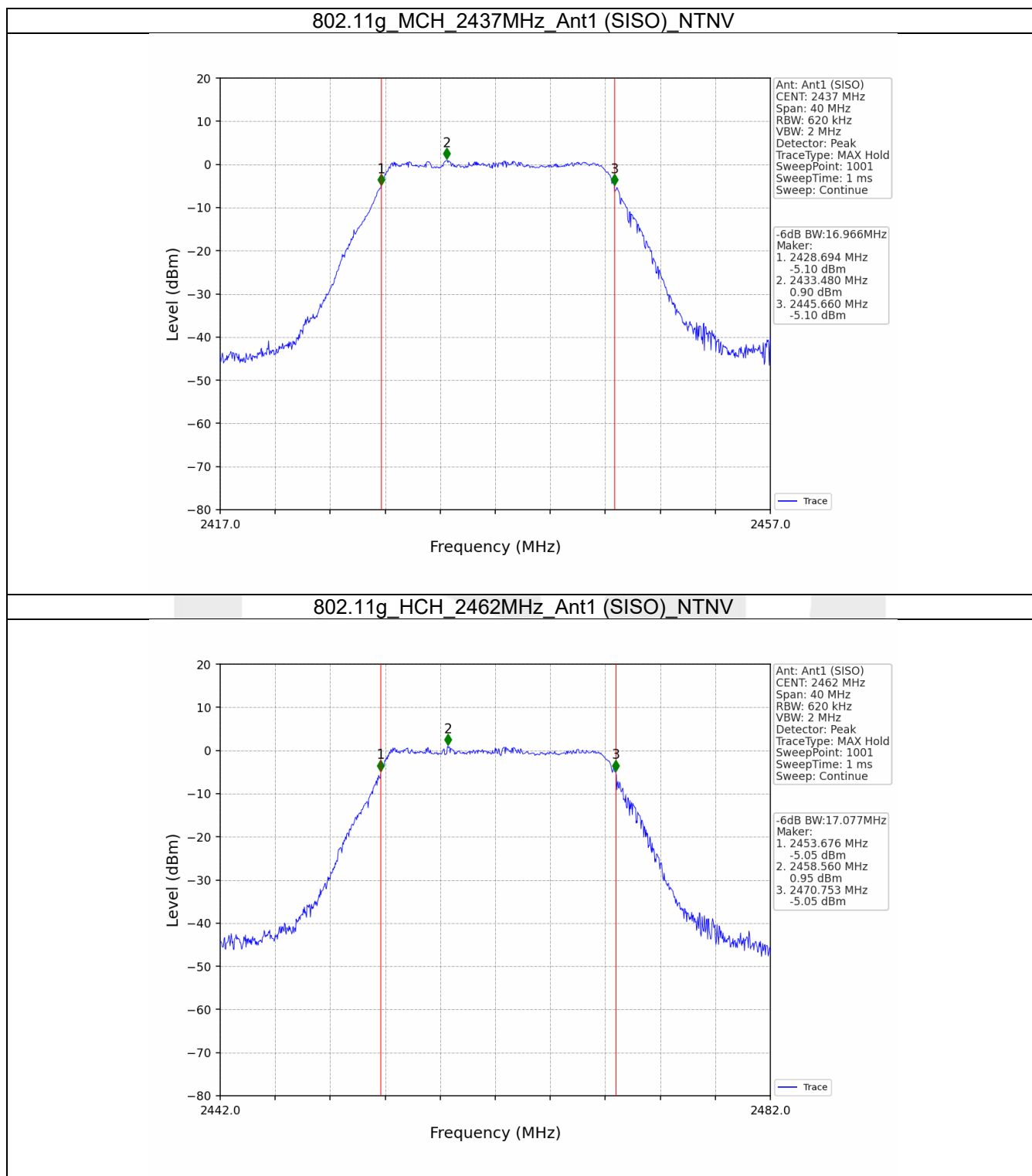
2.2.1 Test Result

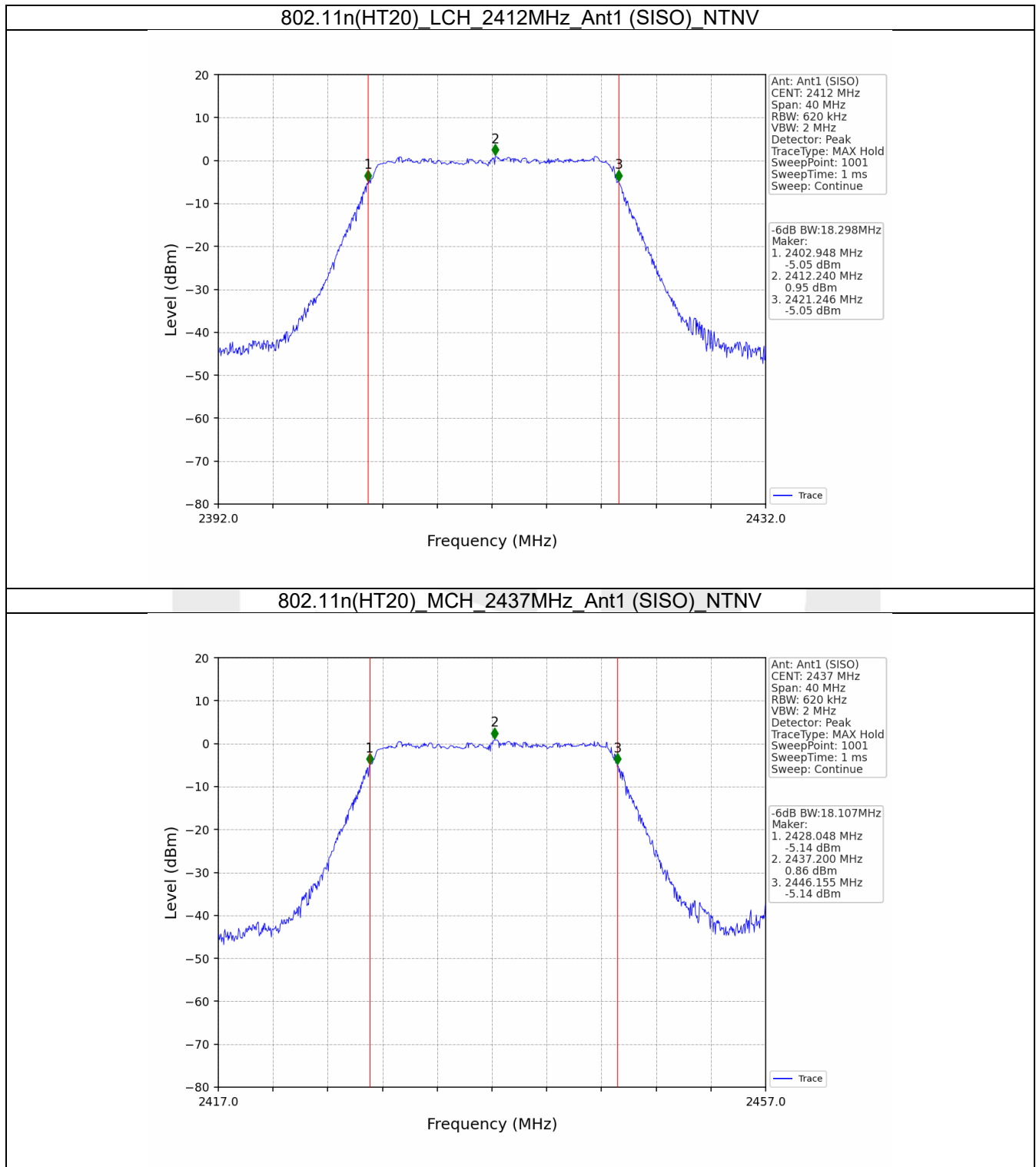
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.070	≥ 0.5	Pass
		2437	1	9.722	≥ 0.5	Pass
		2462	1	9.366	≥ 0.5	Pass
802.11g	SISO	2412	1	17.030	≥ 0.5	Pass
		2437	1	16.966	≥ 0.5	Pass
		2462	1	17.077	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	18.298	≥ 0.5	Pass
		2437	1	18.107	≥ 0.5	Pass
		2462	1	18.152	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.733	≥ 0.5	Pass
		2437	1	36.909	≥ 0.5	Pass
		2452	1	36.795	≥ 0.5	Pass

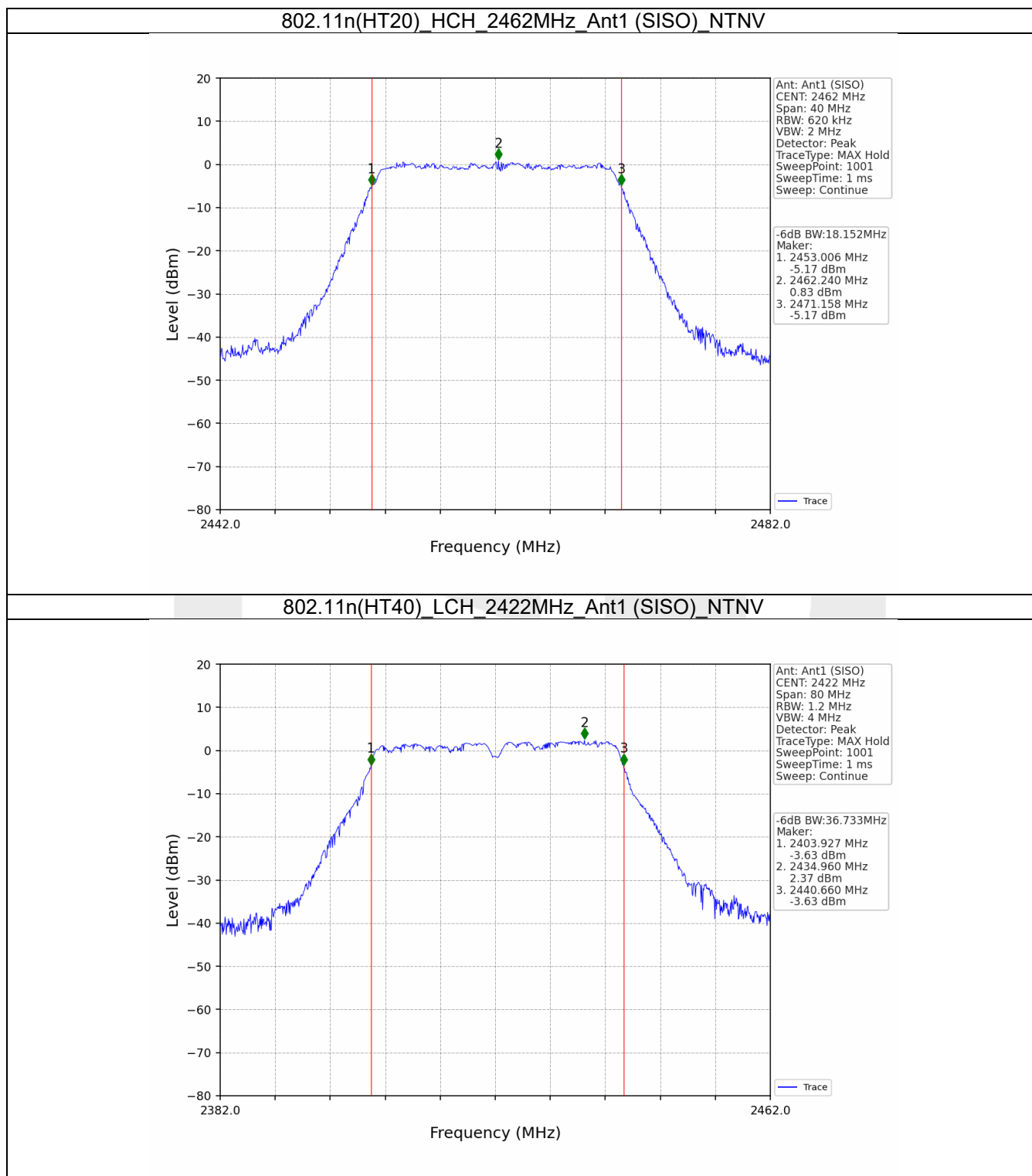
2.2.2 Test Graph

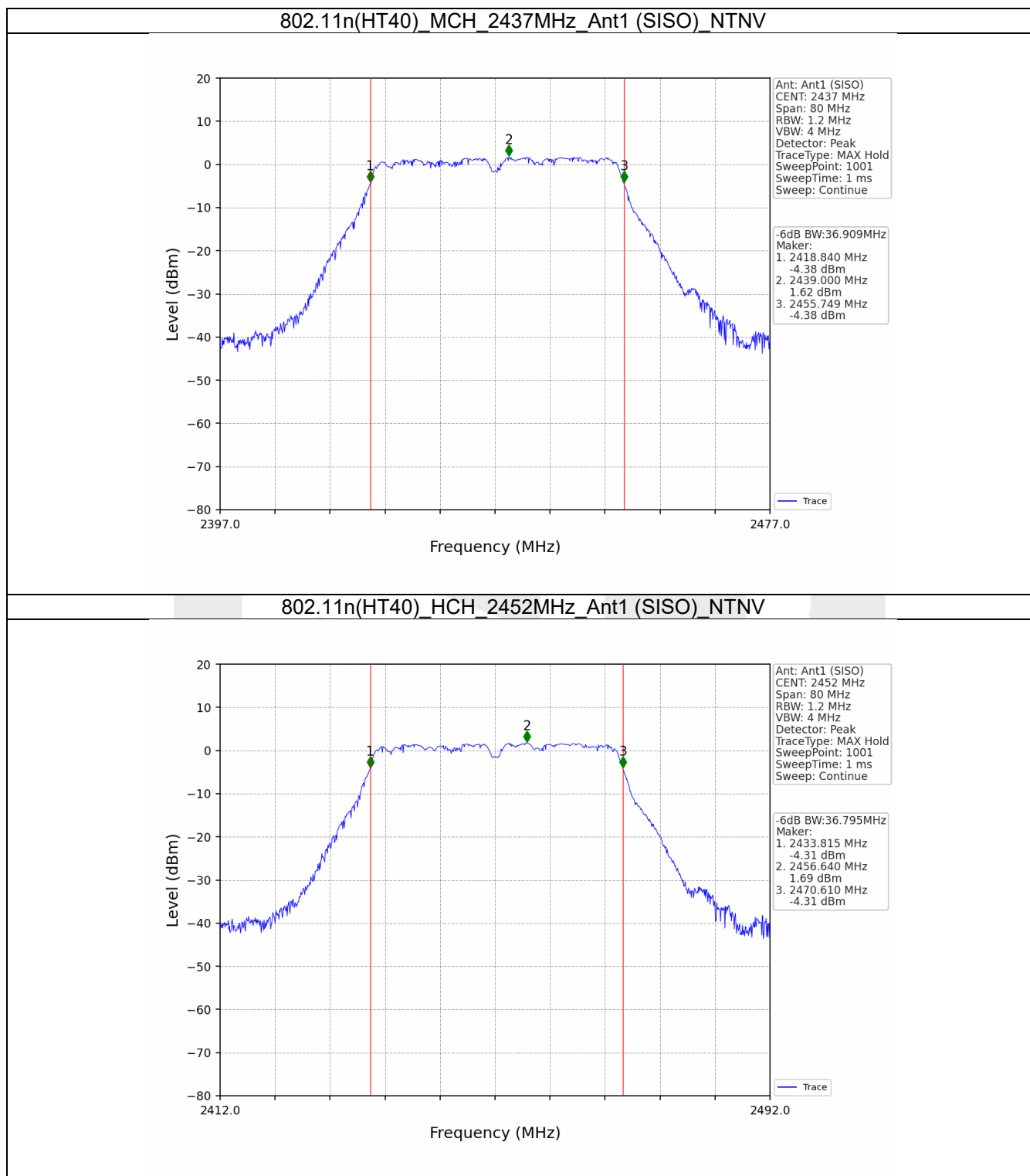












3. Maximum Conducted Output Power

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	12.35	<=30	Pass
		2437	12.18	<=30	Pass
		2462	12.36	<=30	Pass
802.11g	SISO	2412	14.87	<=30	Pass
		2437	14.59	<=30	Pass
		2462	14.43	<=30	Pass
802.11n (HT20)	SISO	2412	14.97	<=30	Pass
		2437	14.63	<=30	Pass
		2462	14.54	<=30	Pass
802.11n (HT40)	SISO	2422	14.77	<=30	Pass
		2437	14.53	<=30	Pass
		2452	14.38	<=30	Pass

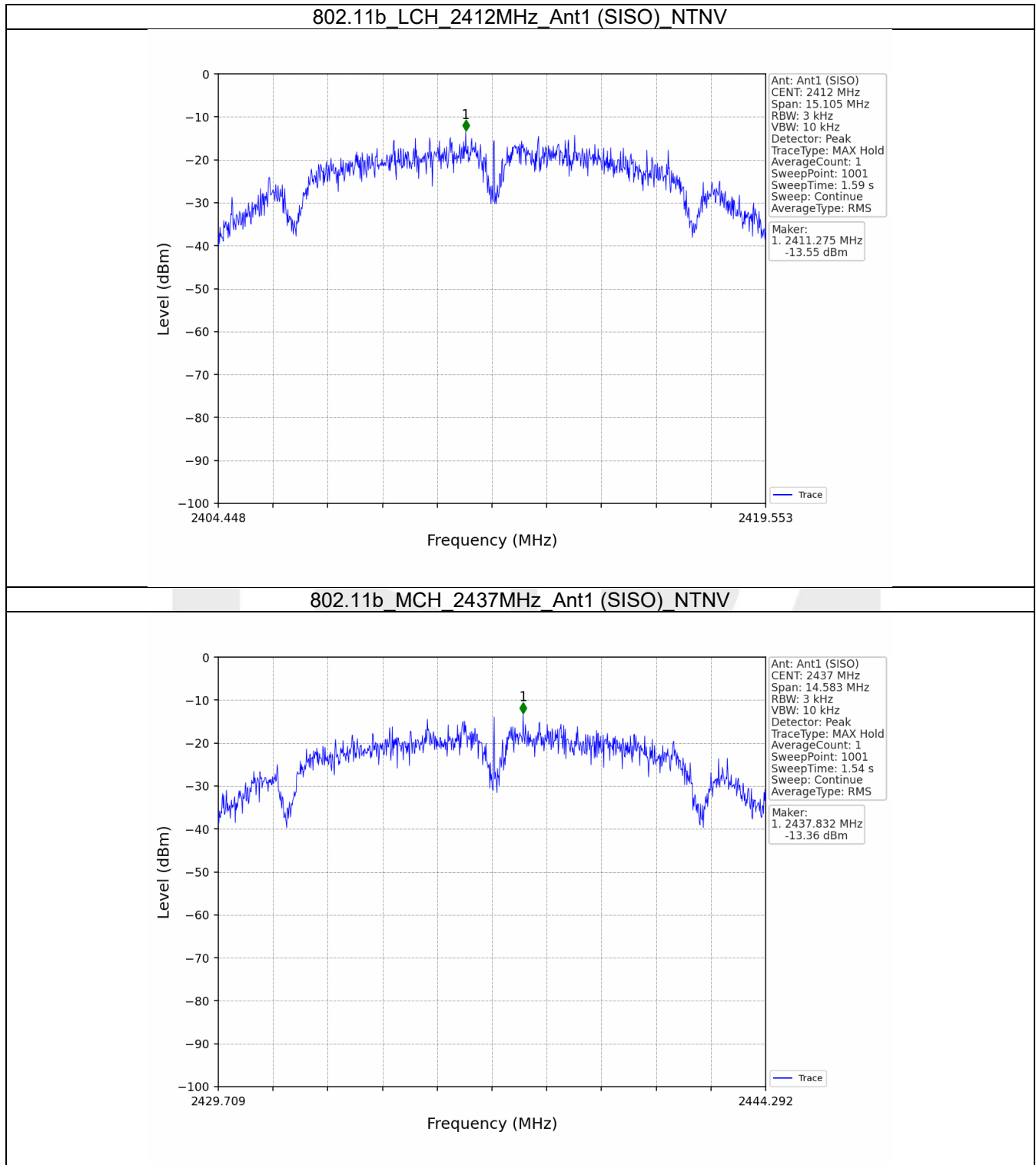
4. Maximum Power Spectral Density

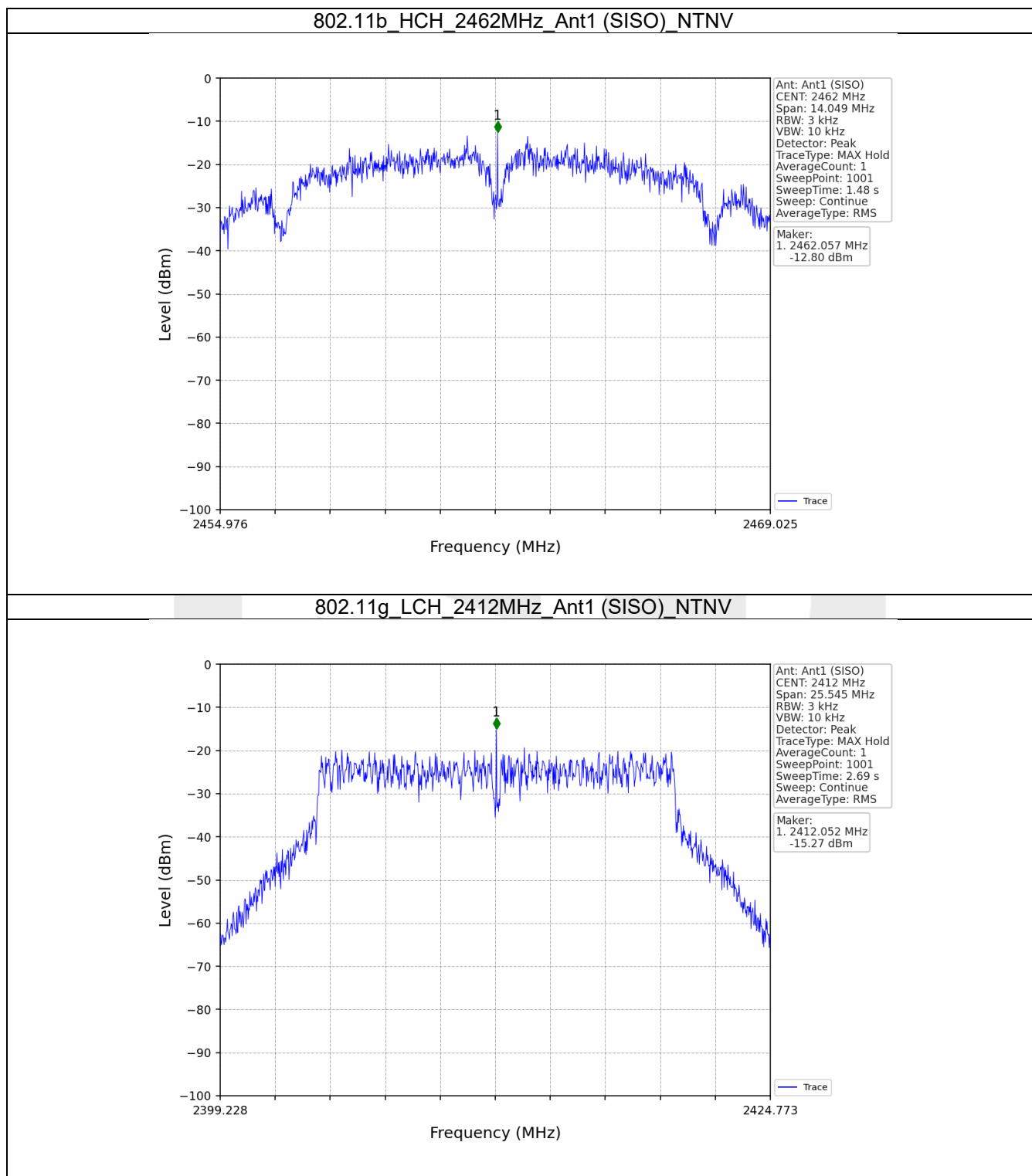
4.1 PSD

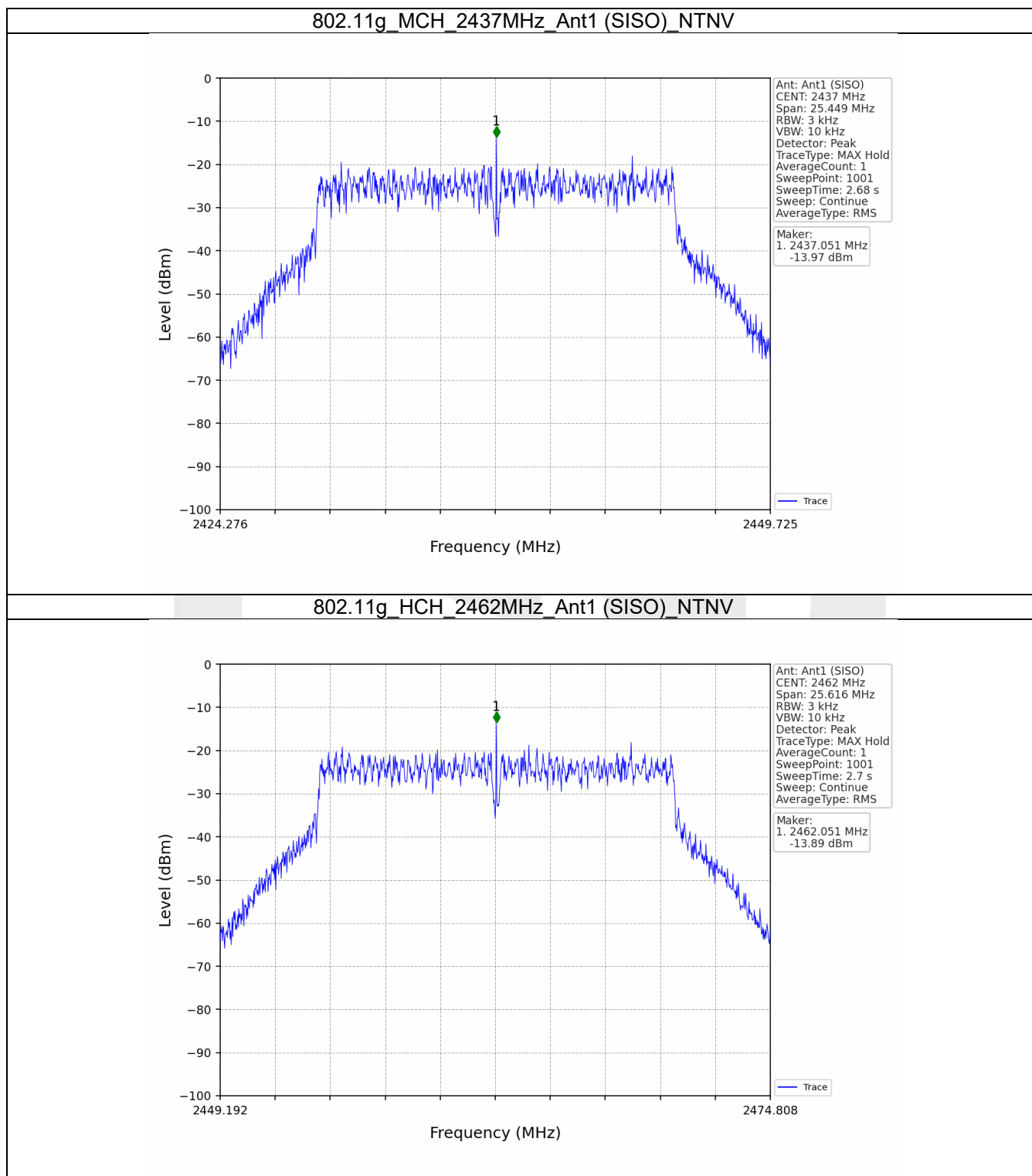
4.1.1 Test Result

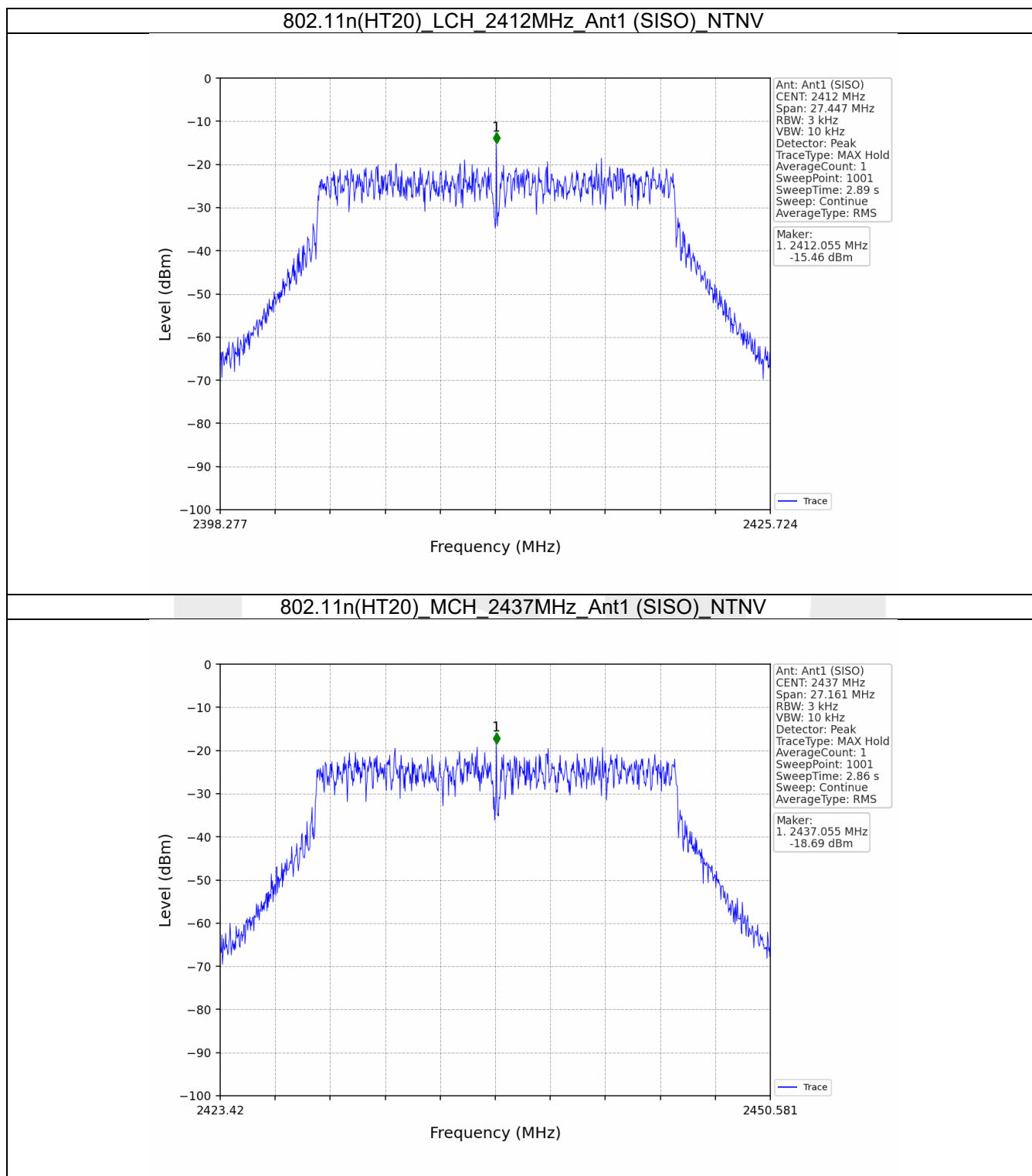
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-13.55	<=8	Pass
		2437	-13.36	<=8	Pass
		2462	-12.80	<=8	Pass
802.11g	SISO	2412	-15.27	<=8	Pass
		2437	-13.97	<=8	Pass
		2462	-13.89	<=8	Pass
802.11n (HT20)	SISO	2412	-15.46	<=8	Pass
		2437	-18.69	<=8	Pass
		2462	-18.34	<=8	Pass
802.11n (HT40)	SISO	2422	-14.24	<=8	Pass
		2437	-14.17	<=8	Pass
		2452	-20.96	<=8	Pass

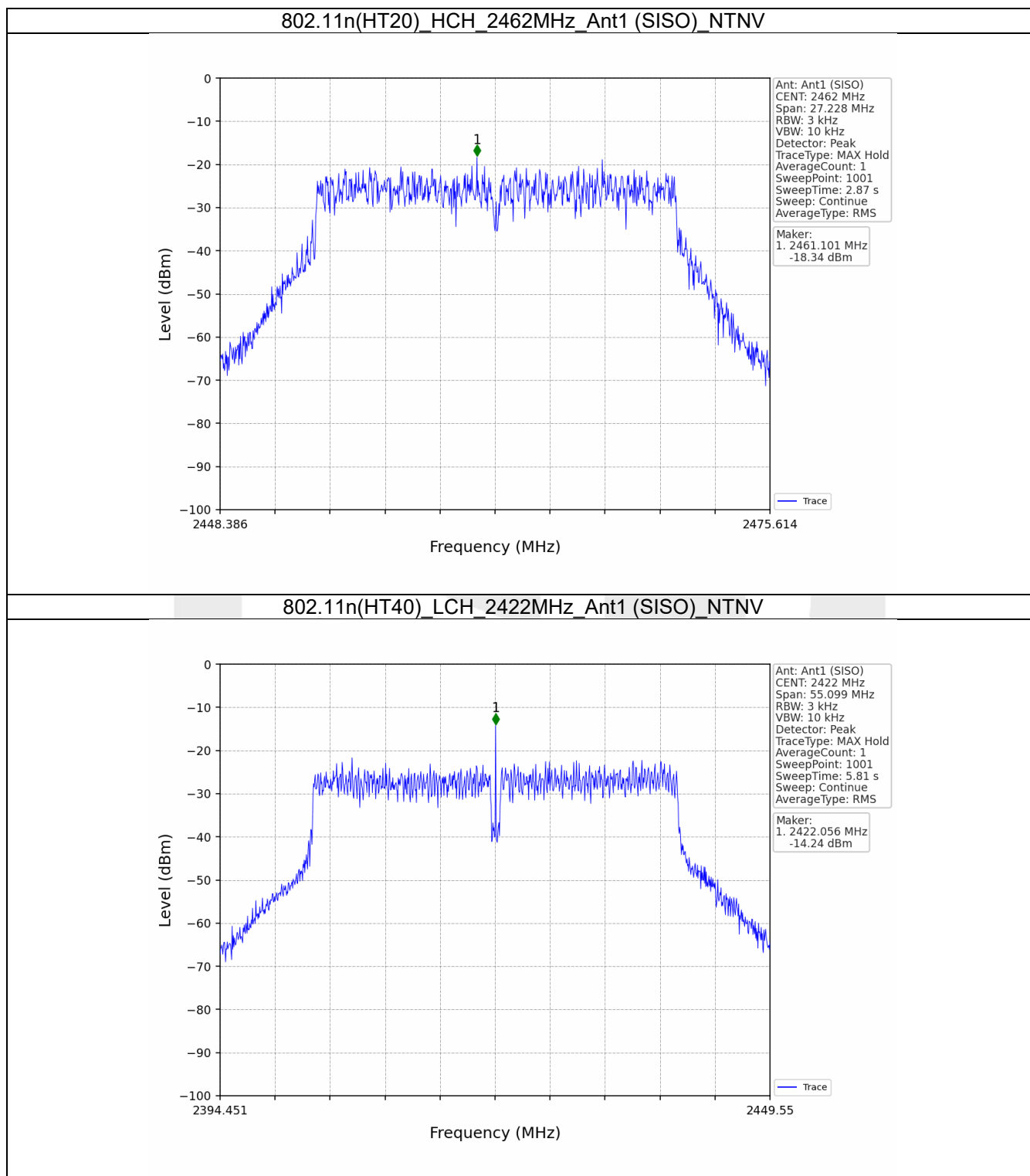
4.1.2 Test Graph

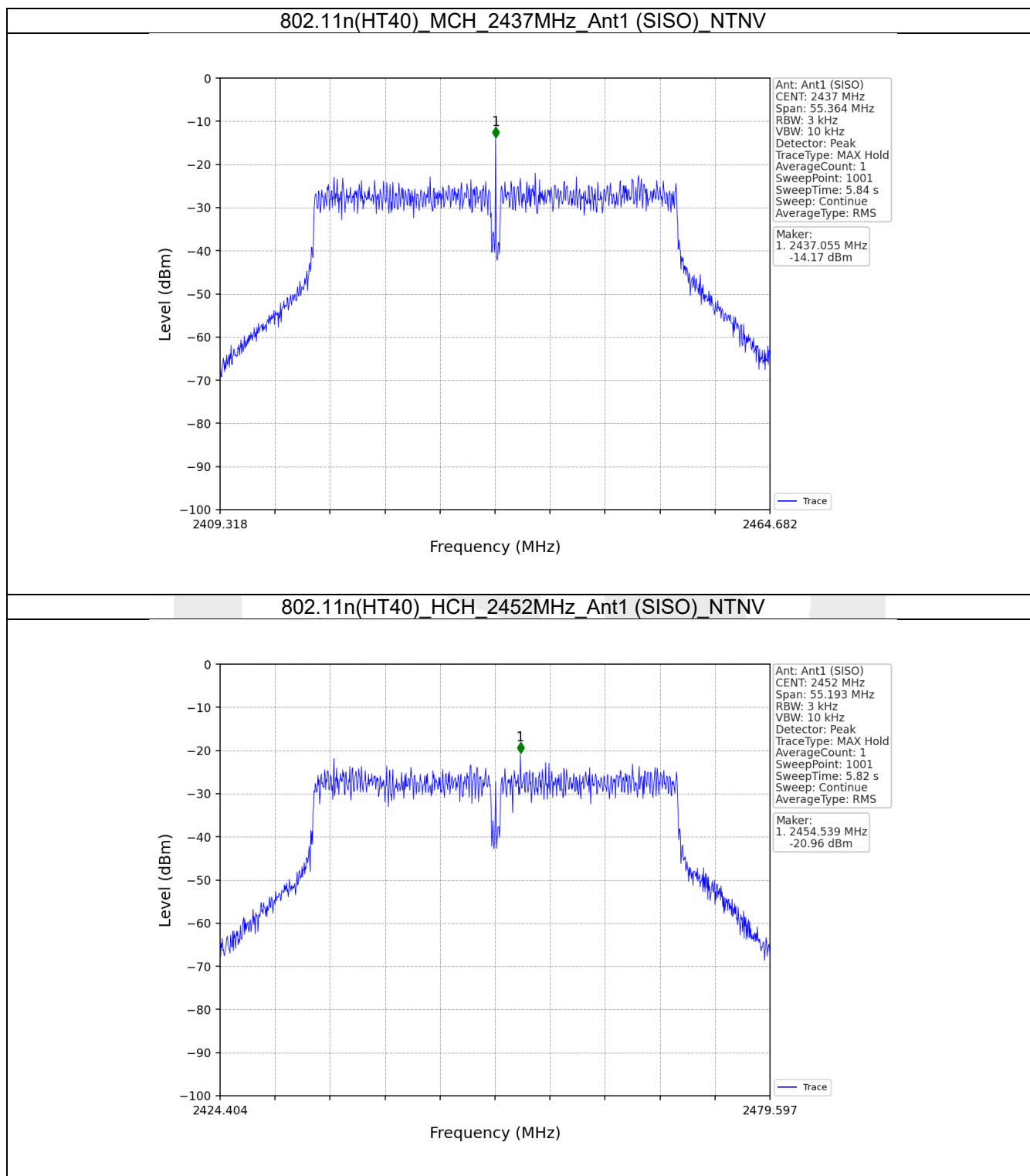












5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-0.16
		2437	1	0.92
		2462	1	0.30
802.11g	SISO	2412	1	-4.31
		2437	1	-3.82
		2462	1	-11.83
802.11n (HT20)	SISO	2412	1	-4.54
		2437	1	-4.17
		2462	1	-3.94
802.11n (HT40)	SISO	2422	1	-6.51
		2437	1	-7.31
		2452	1	-7.52

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.

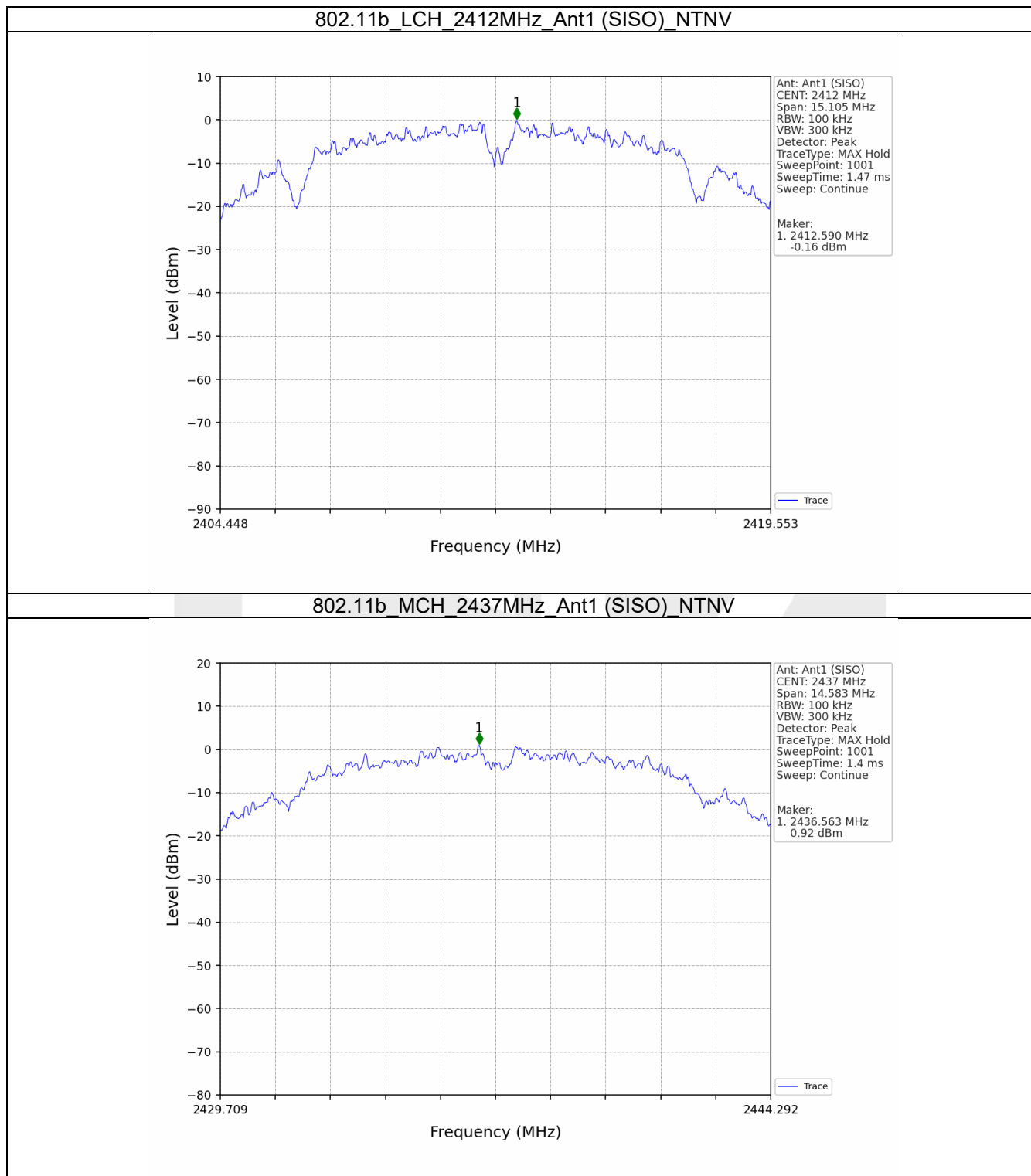
5.1.2 CSE

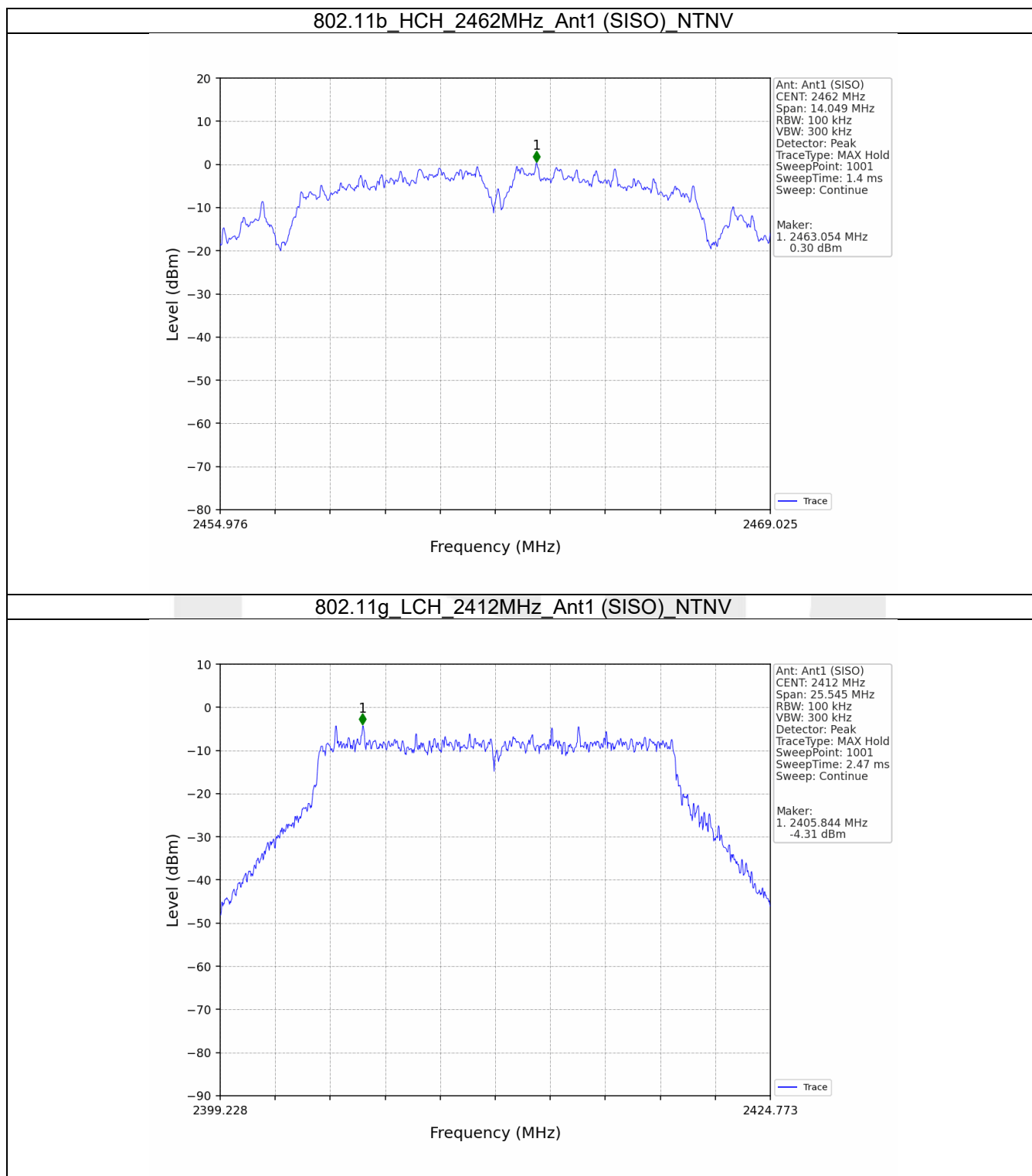
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	0.92	-19.08	Pass
		2437	1	0.92	-19.08	Pass
		2462	1	0.92	-19.08	Pass
802.11g	SISO	2412	1	-3.91	-23.91	Pass
		2437	1	-3.91	-23.91	Pass
		2462	1	-3.91	-23.91	Pass
802.11n (HT20)	SISO	2412	1	-4.03	-24.03	Pass
		2437	1	-4.03	-24.03	Pass
		2462	1	-4.03	-24.03	Pass
802.11n (HT40)	SISO	2422	1	-6.60	-26.60	Pass
		2437	1	-6.60	-26.60	Pass
		2452	1	-6.60	-26.60	Pass

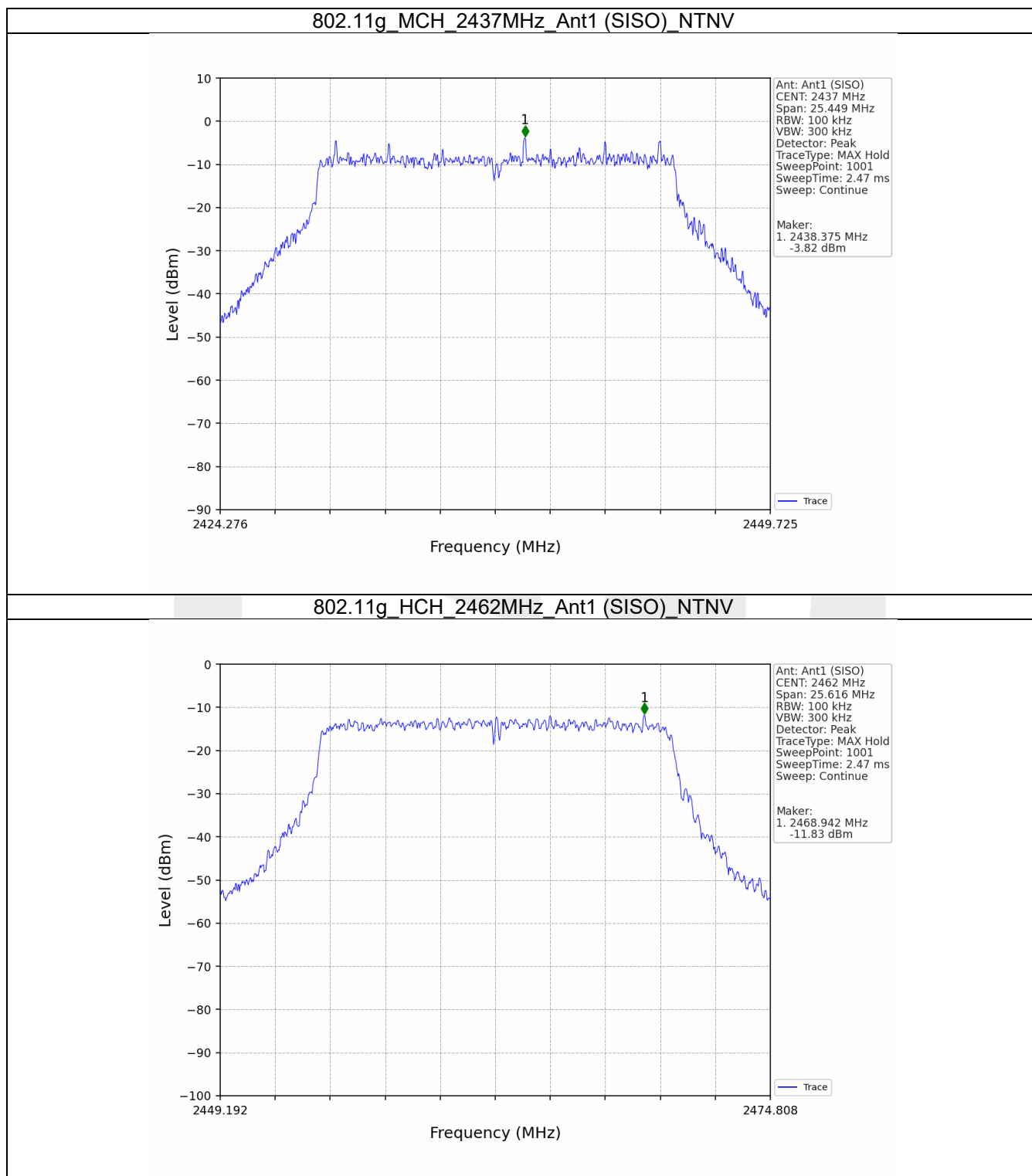
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

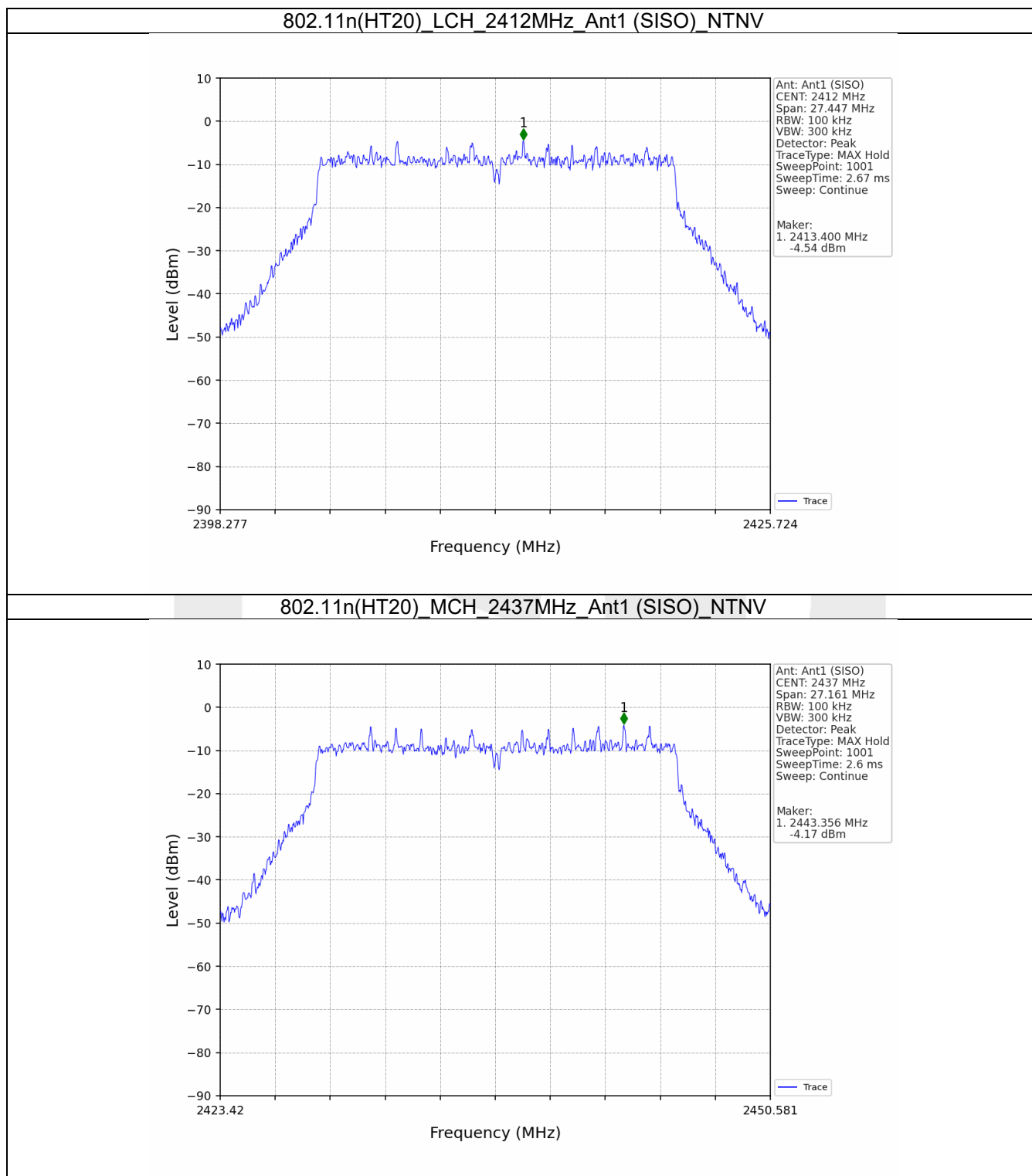
5.2 Test Graph

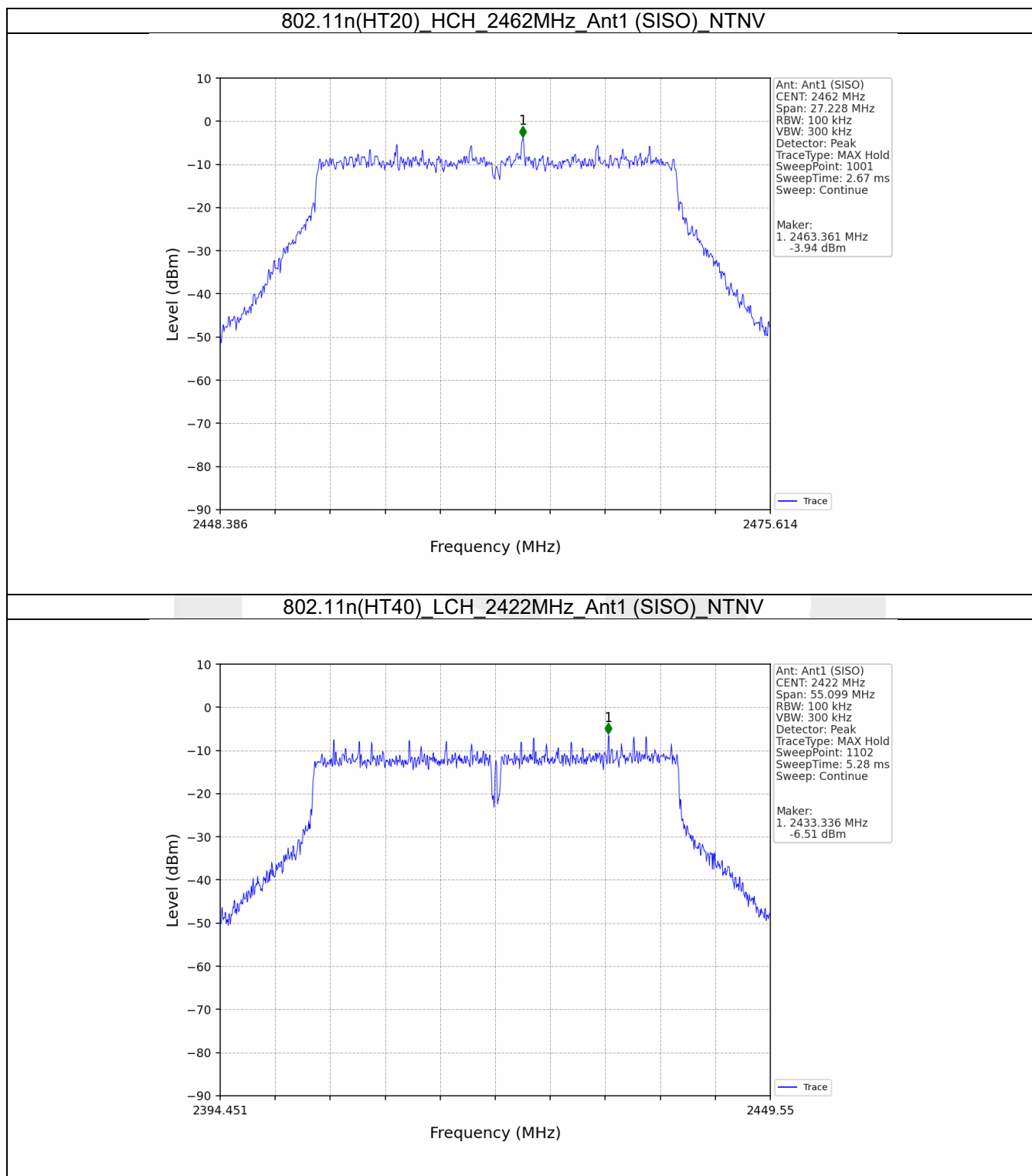
5.2.1 Ref

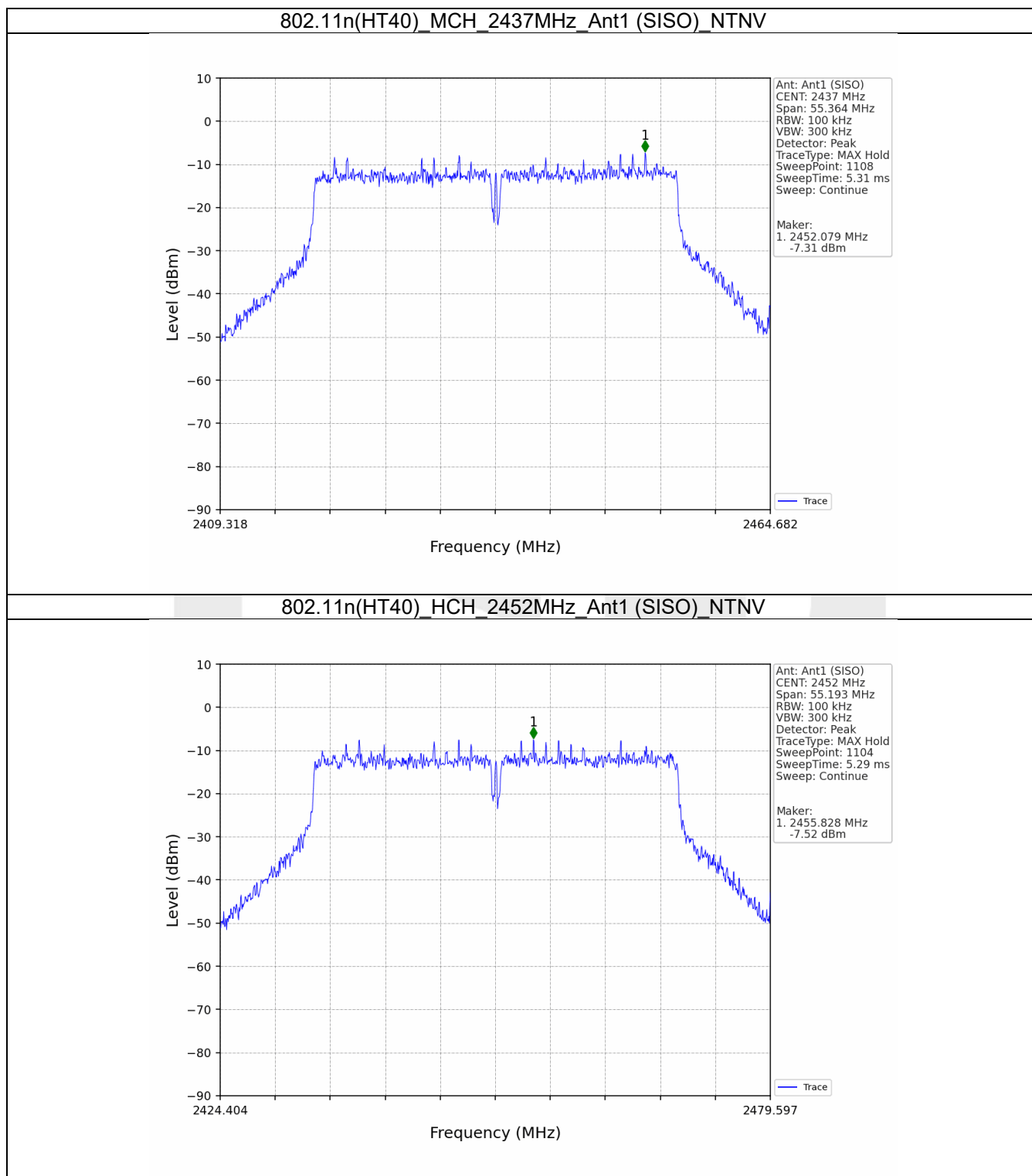




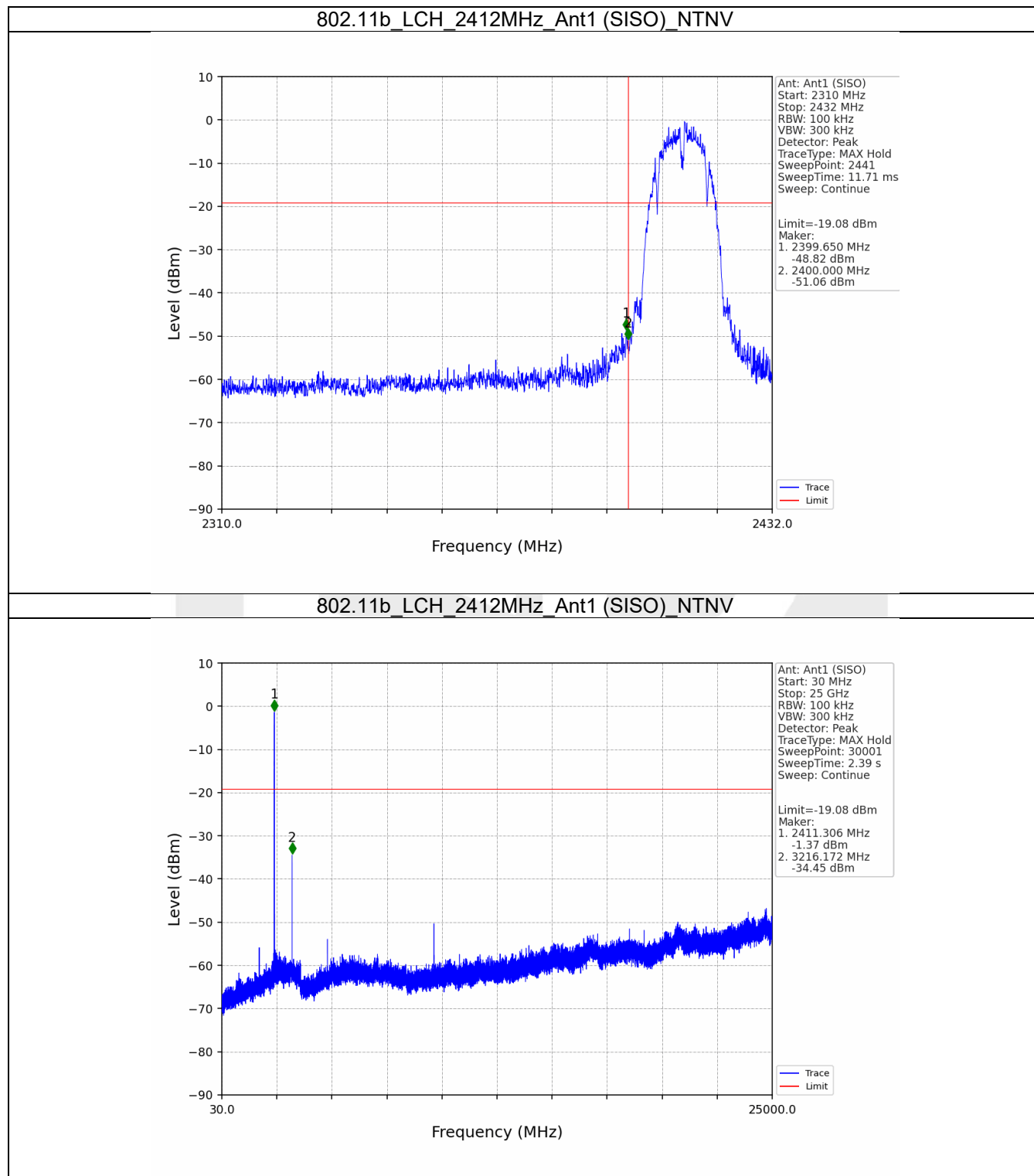


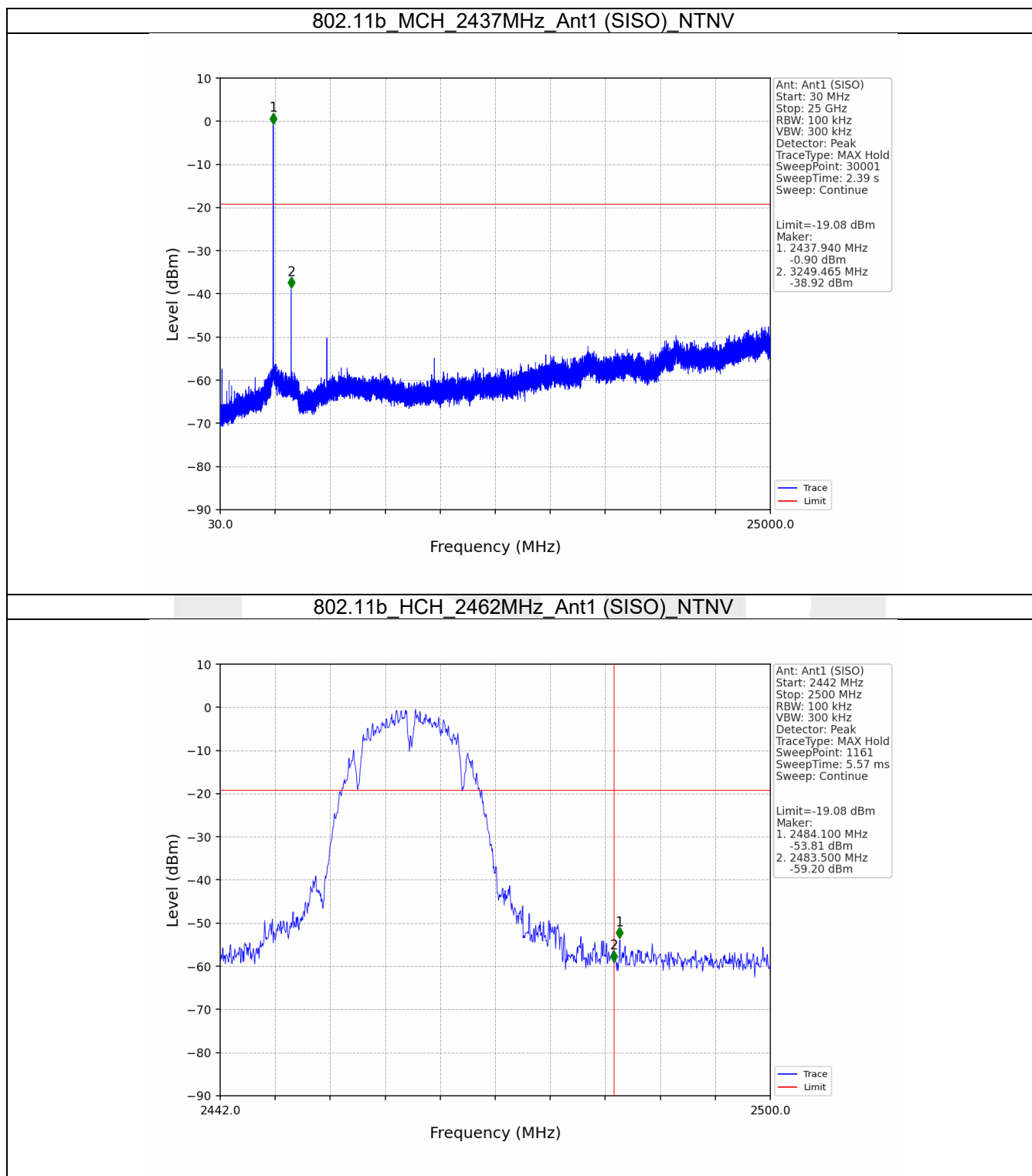


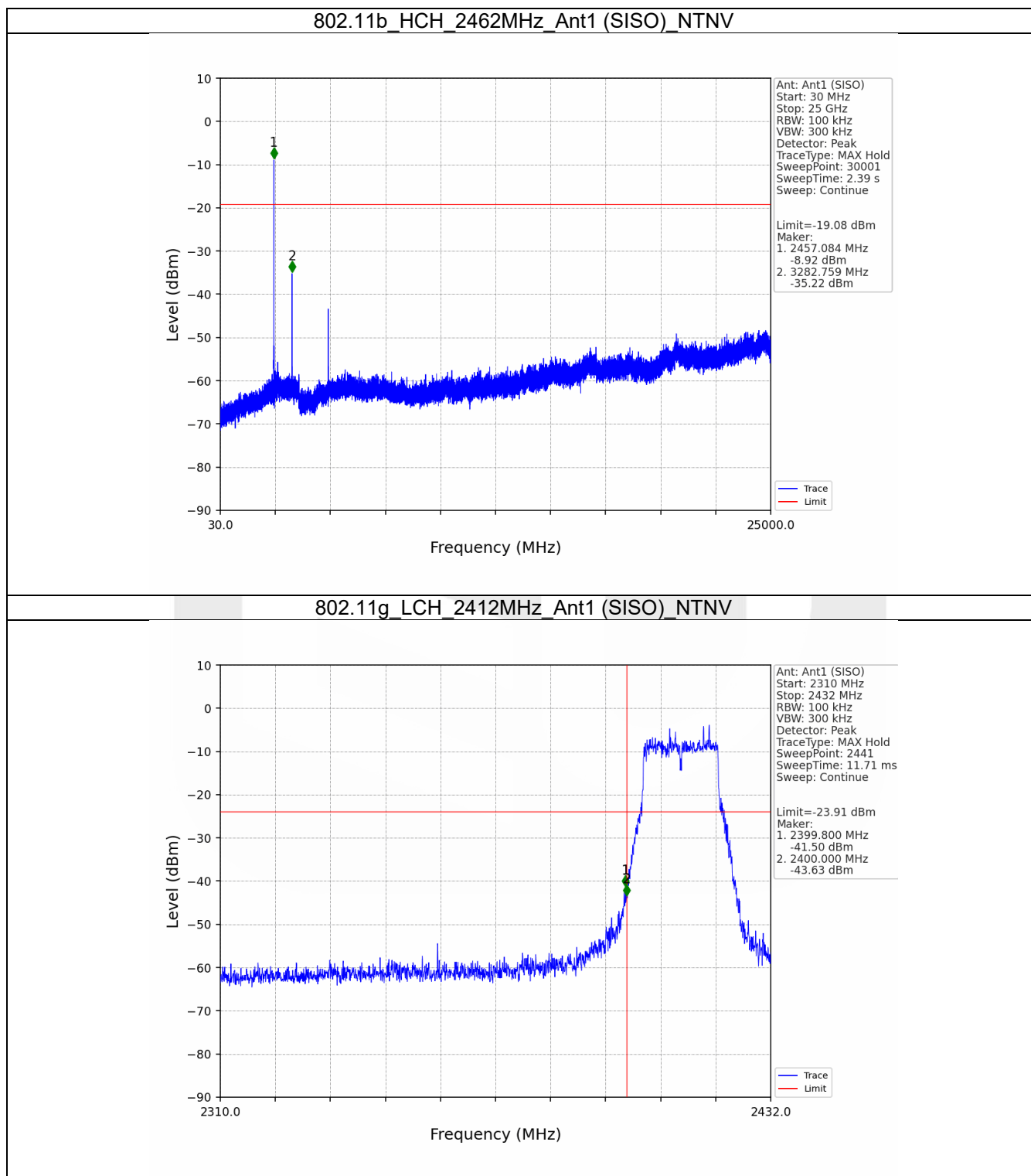


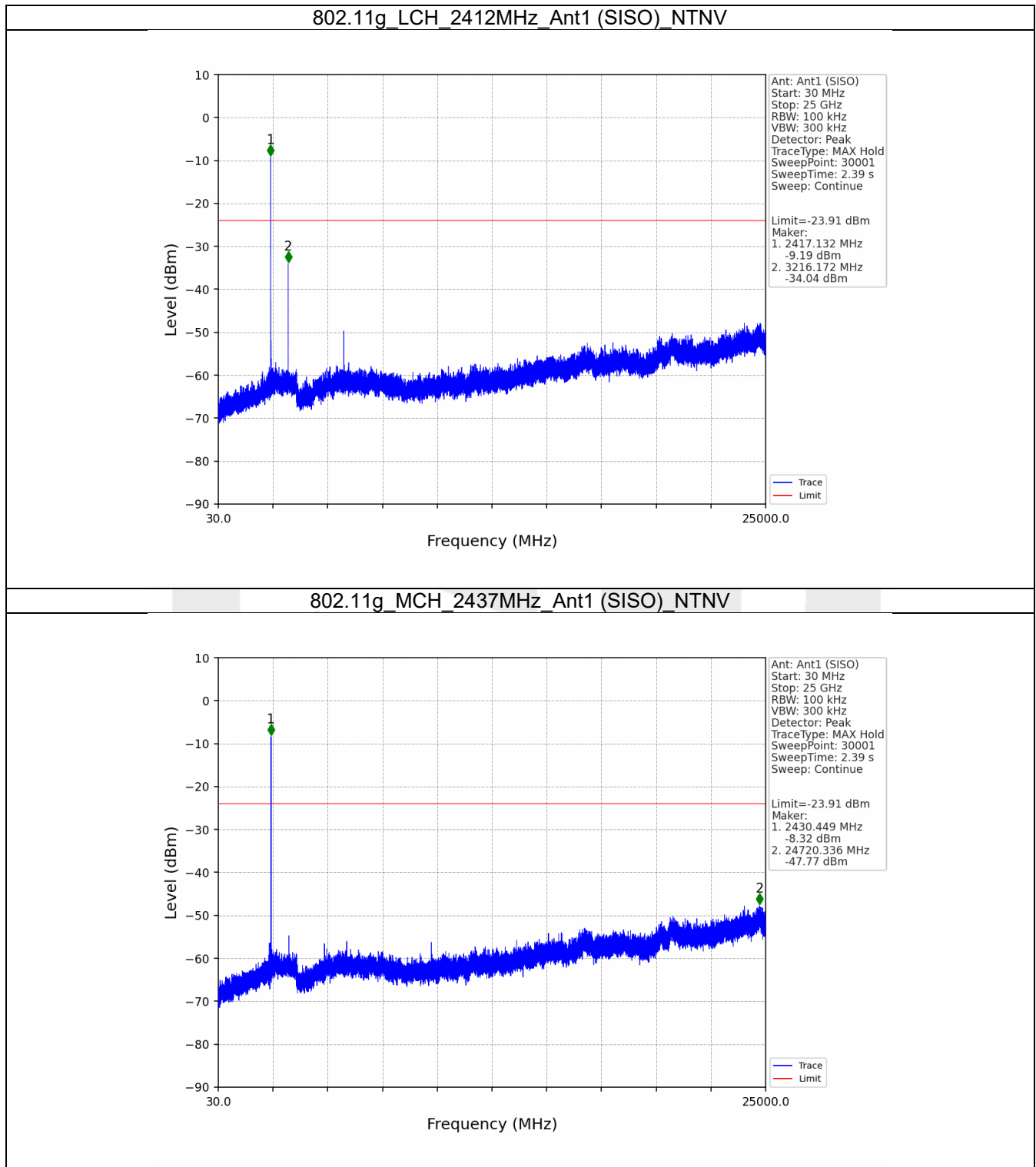


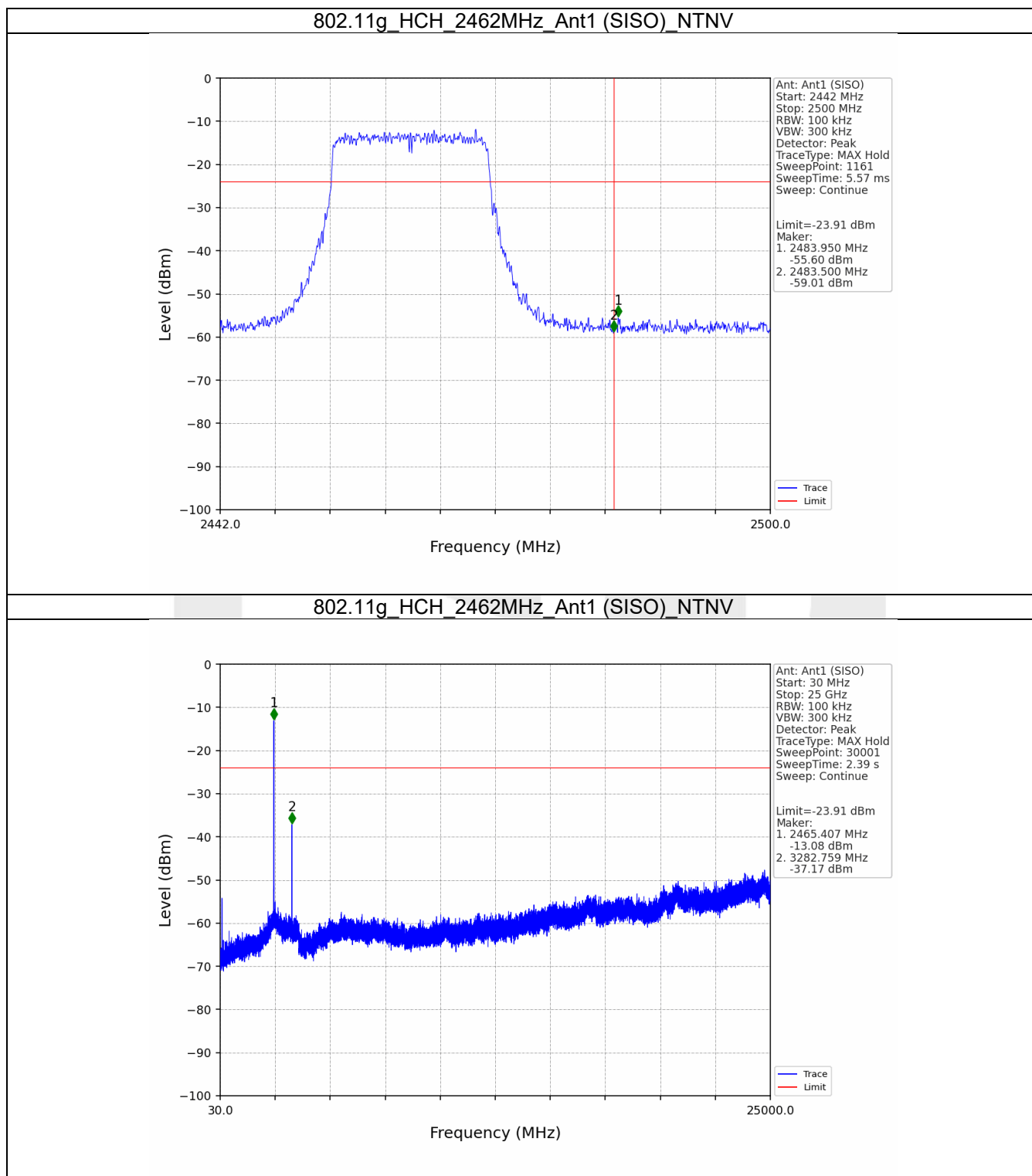
5.2.2 CSE

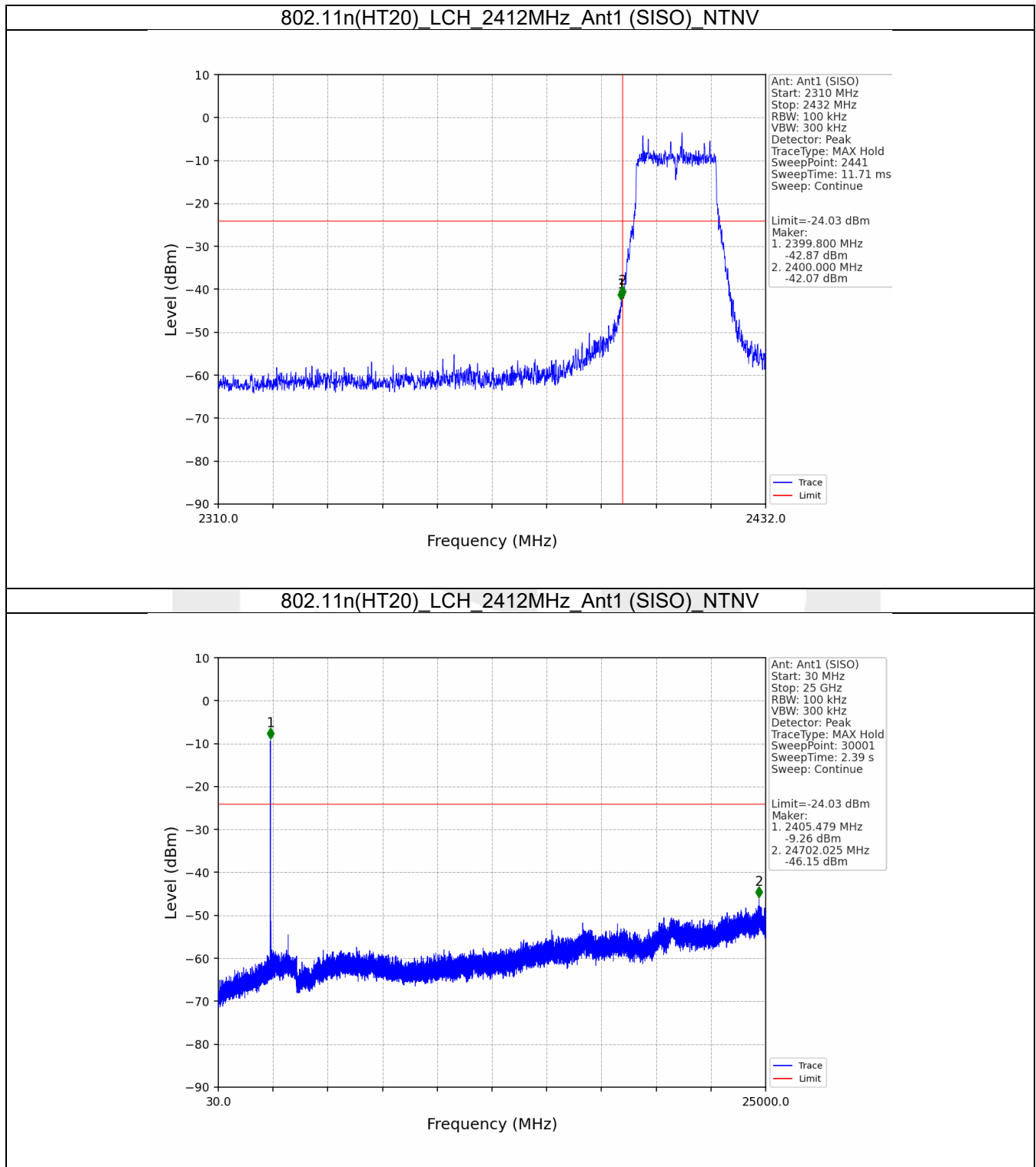


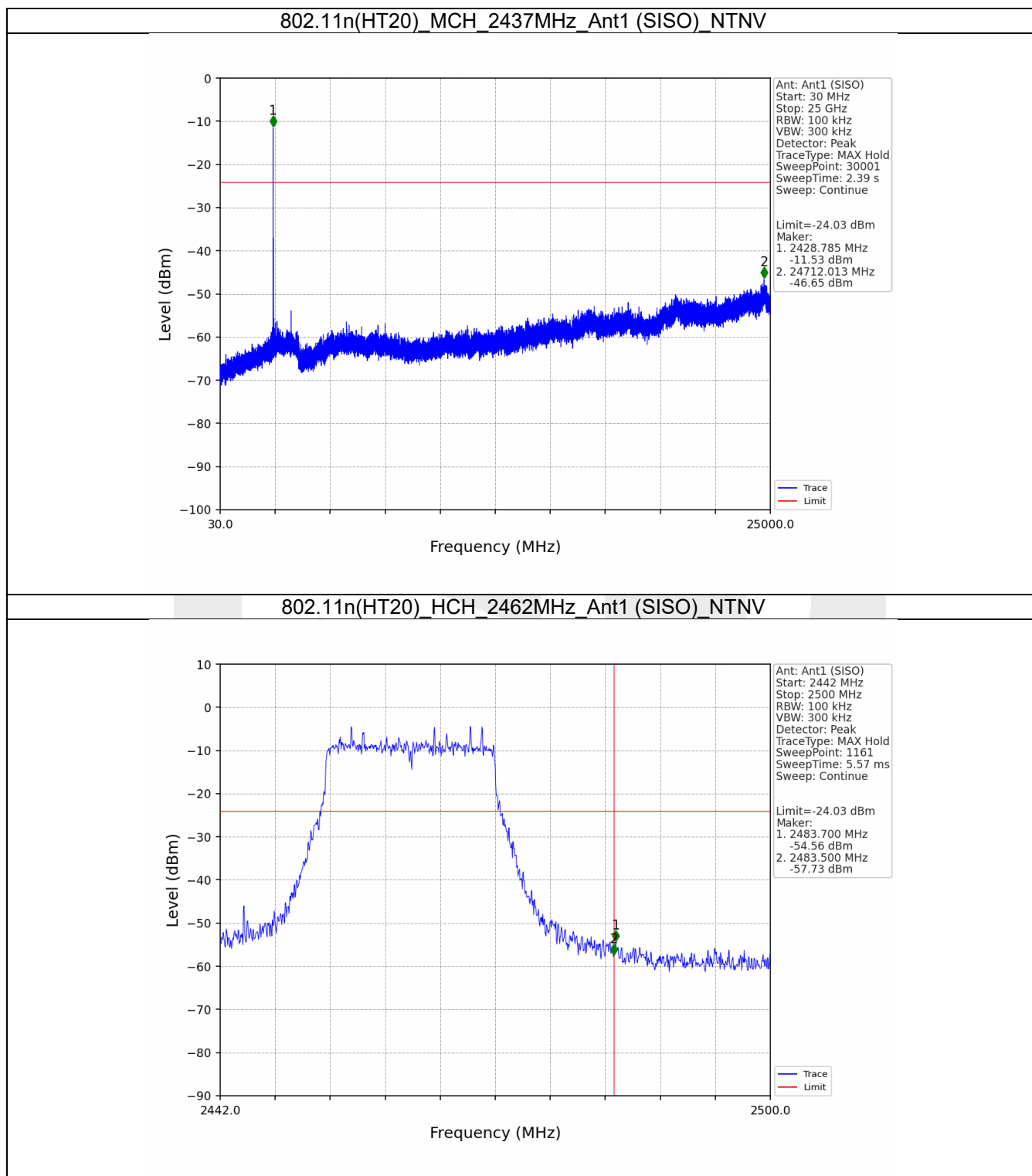


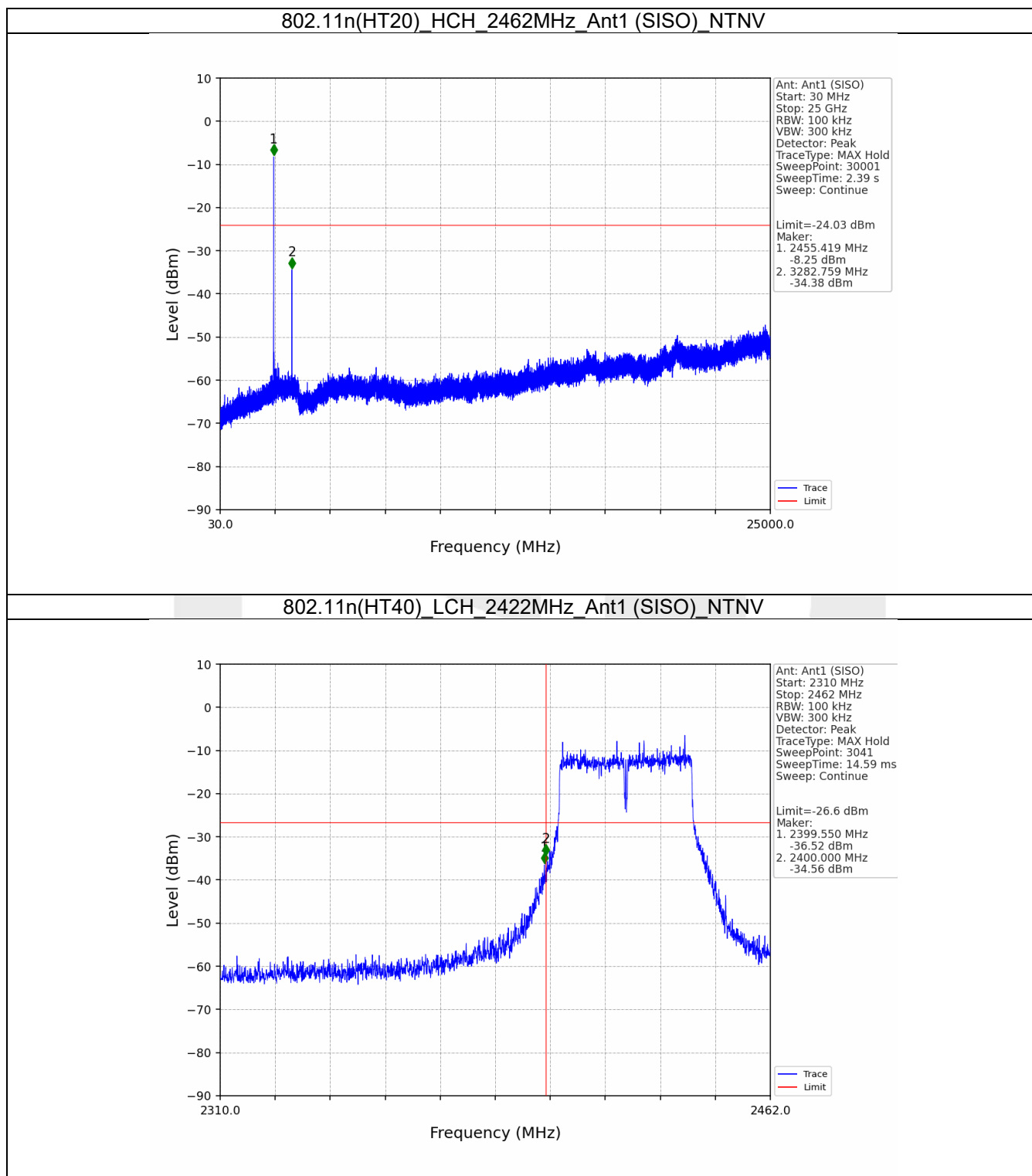


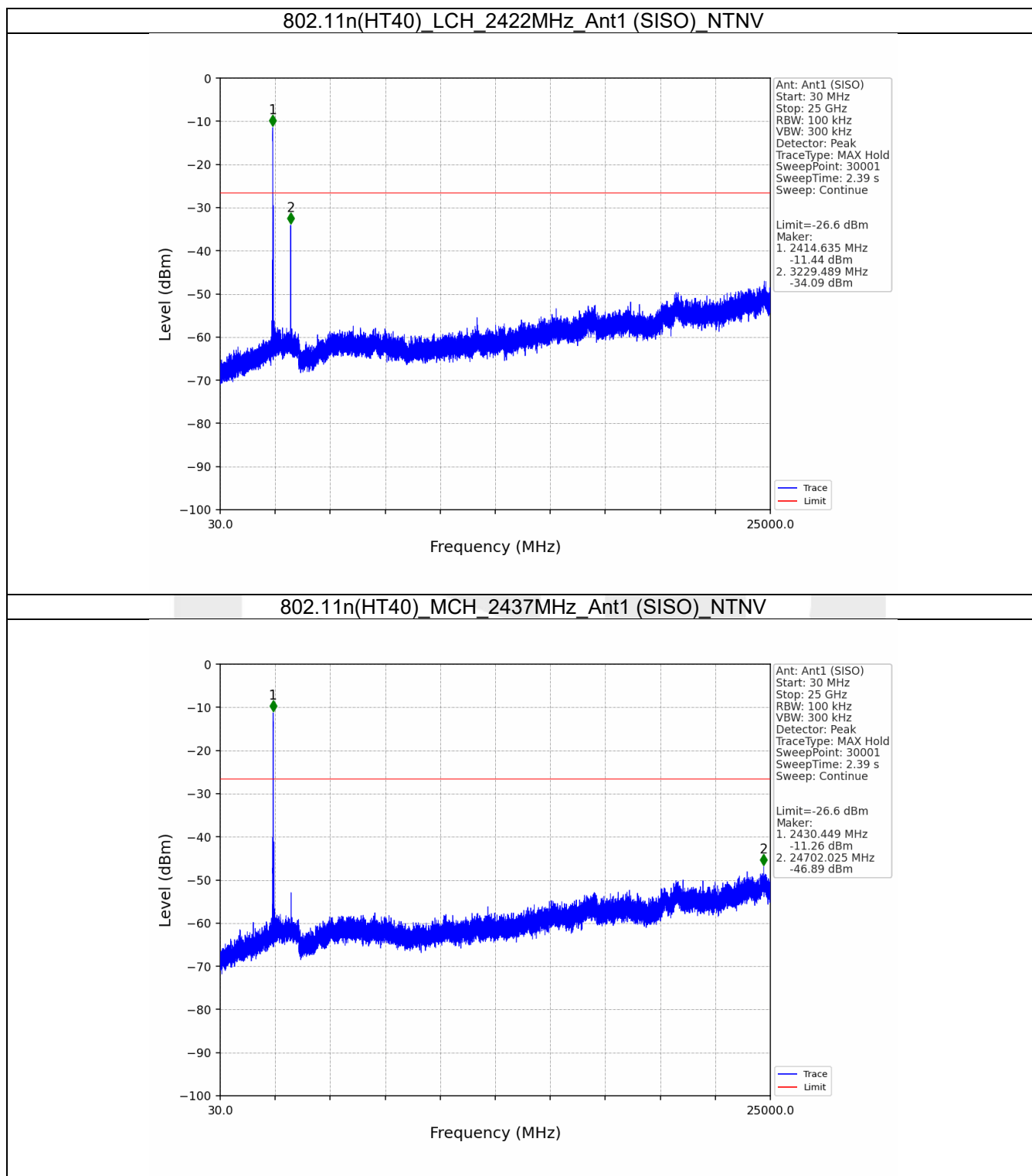


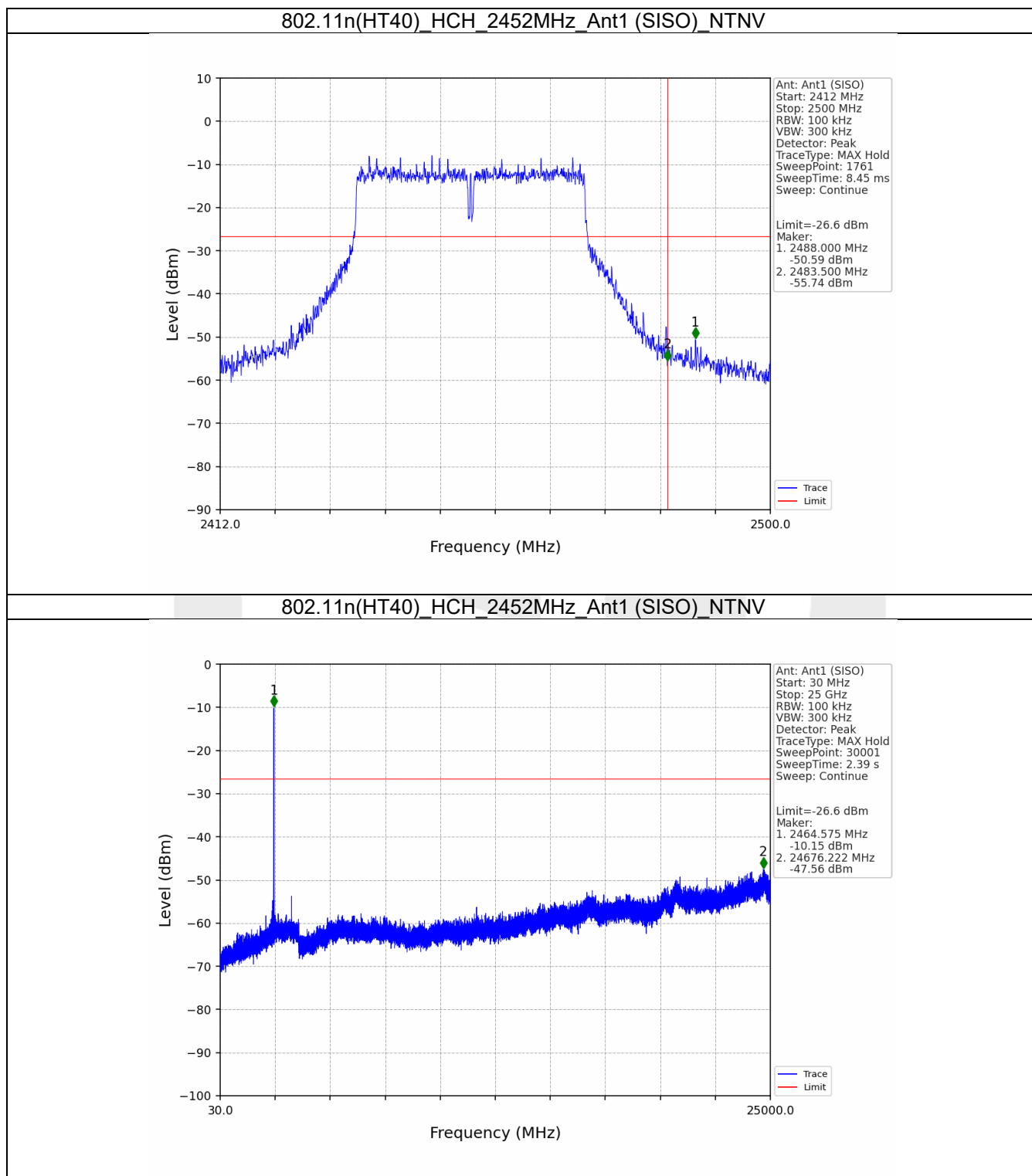












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