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Annex for 2.4G Wi-Fi

Test Report No.: CTL2603054071-WF01

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1. Duty Cycle

1.1 Test Result

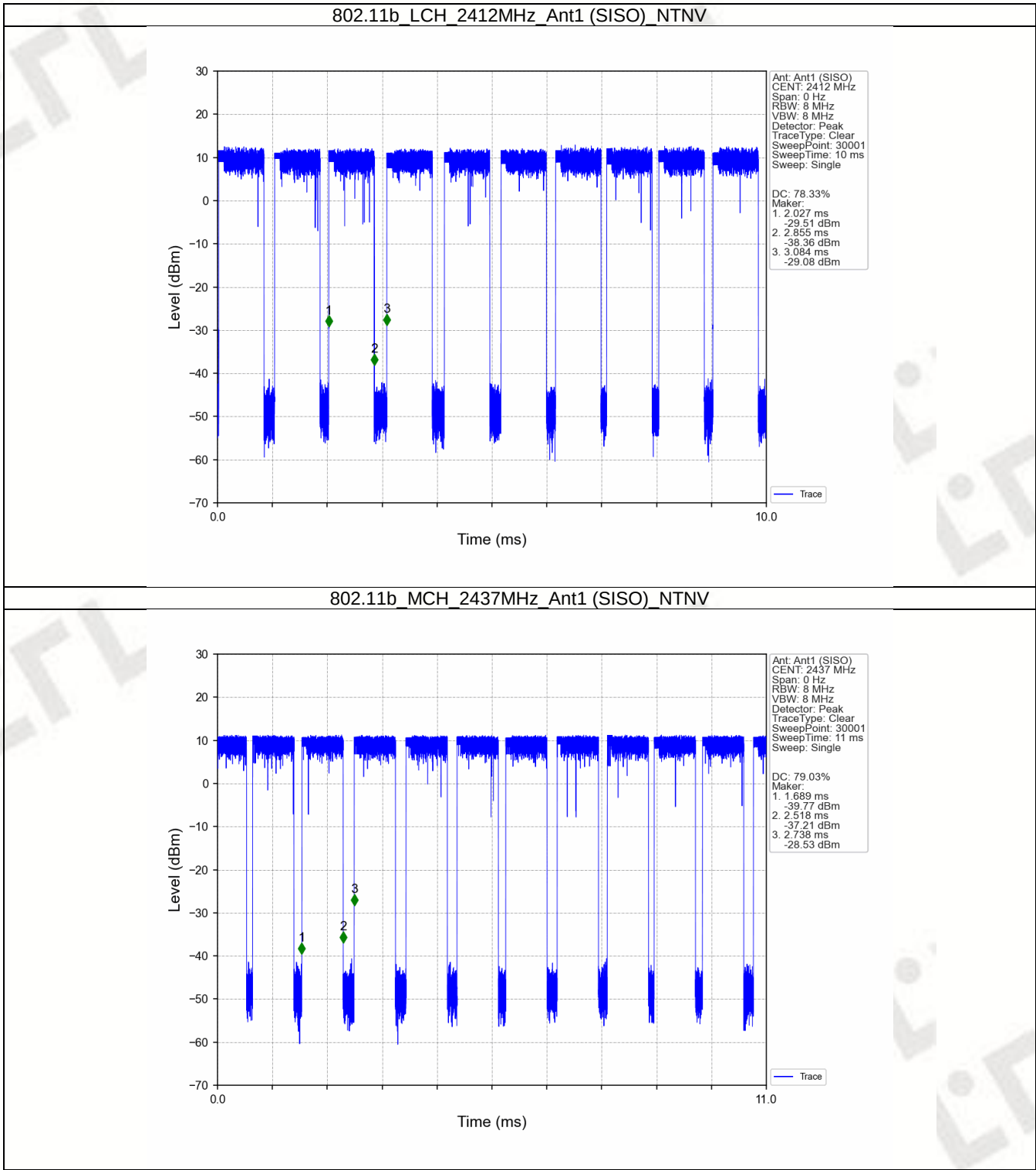
1.1.1 Ant1

Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	0.828	1.057	78.33	1.06	10.60
		2437	/	/	0.829	1.049	79.03	1.02	9.09
		2462	/	/	0.828	1.049	78.93	1.03	8.27
802.11g	SISO	2412	/	/	0.173	0.365	47.40	3.24	13.58
		2437	/	/	0.173	0.401	43.14	3.65	17.72
		2462	/	/	0.173	0.393	44.02	3.56	14.83
802.11n (HT20)	SISO	2412	/	/	1.278	1.456	87.77	0.57	6.43
		2437	/	/	1.278	1.514	84.41	0.74	6.48
		2462	/	/	1.278	1.570	81.40	0.89	10.10
802.11ax (HEW20)	SISO	2412	SU	/	0.996	1.225	81.31	0.90	8.59
		2437	SU	/	0.997	1.208	82.53	0.83	7.39
		2462	SU	/	0.997	1.293	77.11	1.13	12.84

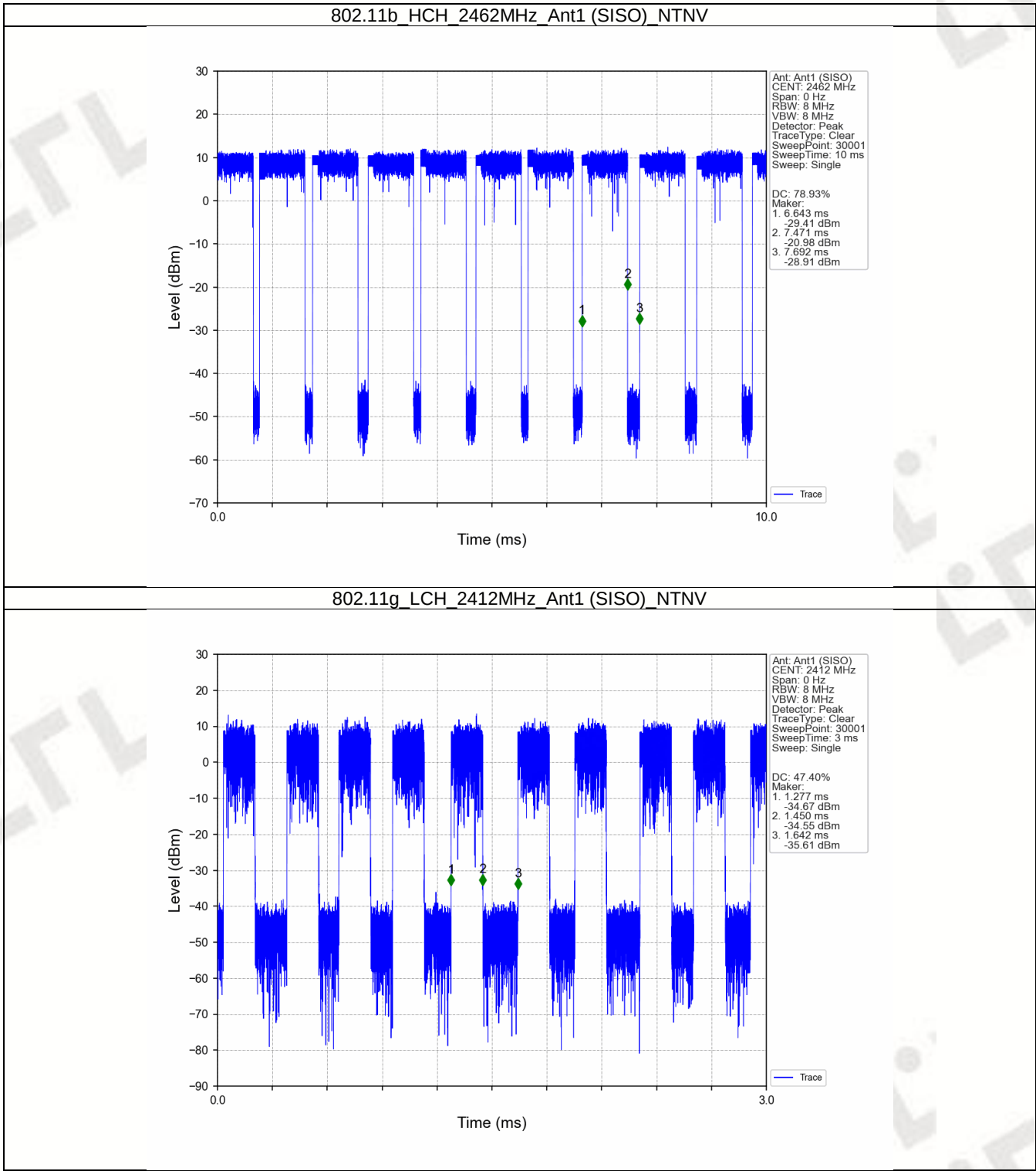
FCC ID: 2AUR8-EBOMINI

1.2 Test Graph

1.2.1 Ant1

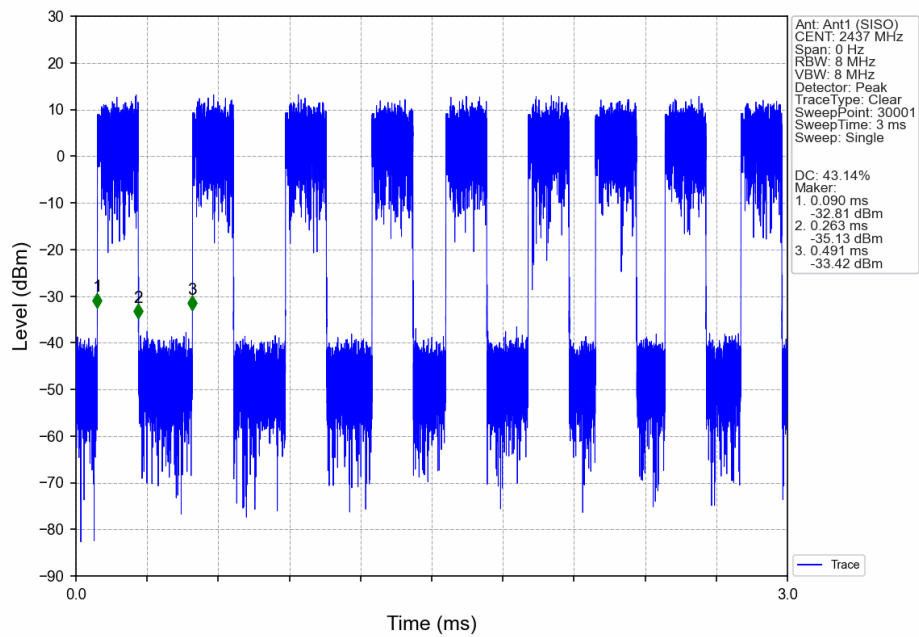


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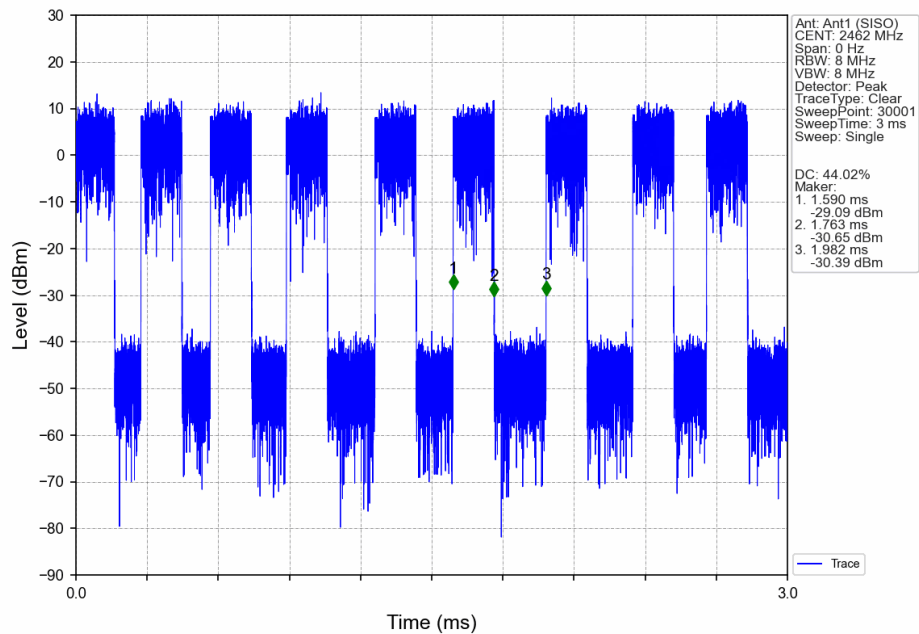


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

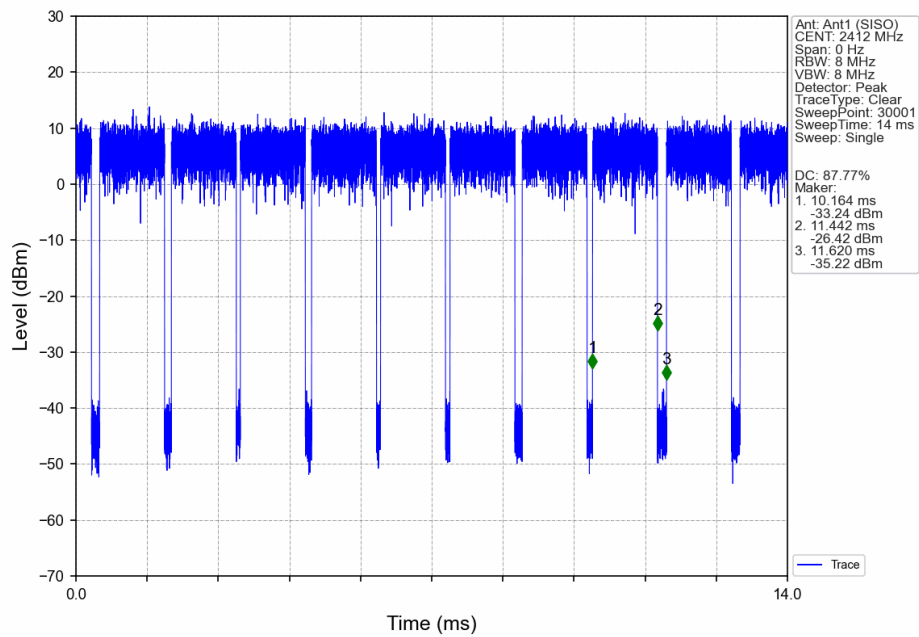


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

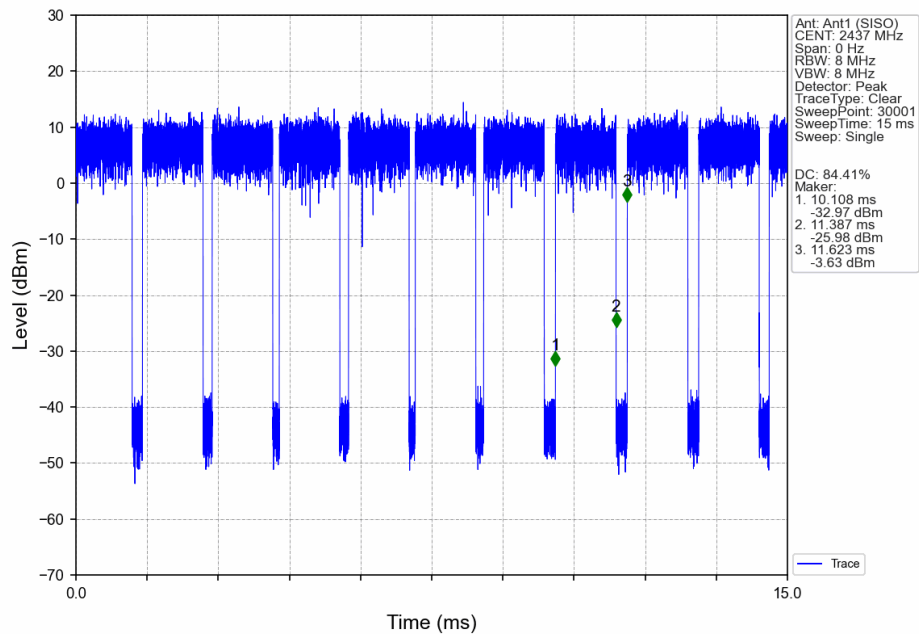


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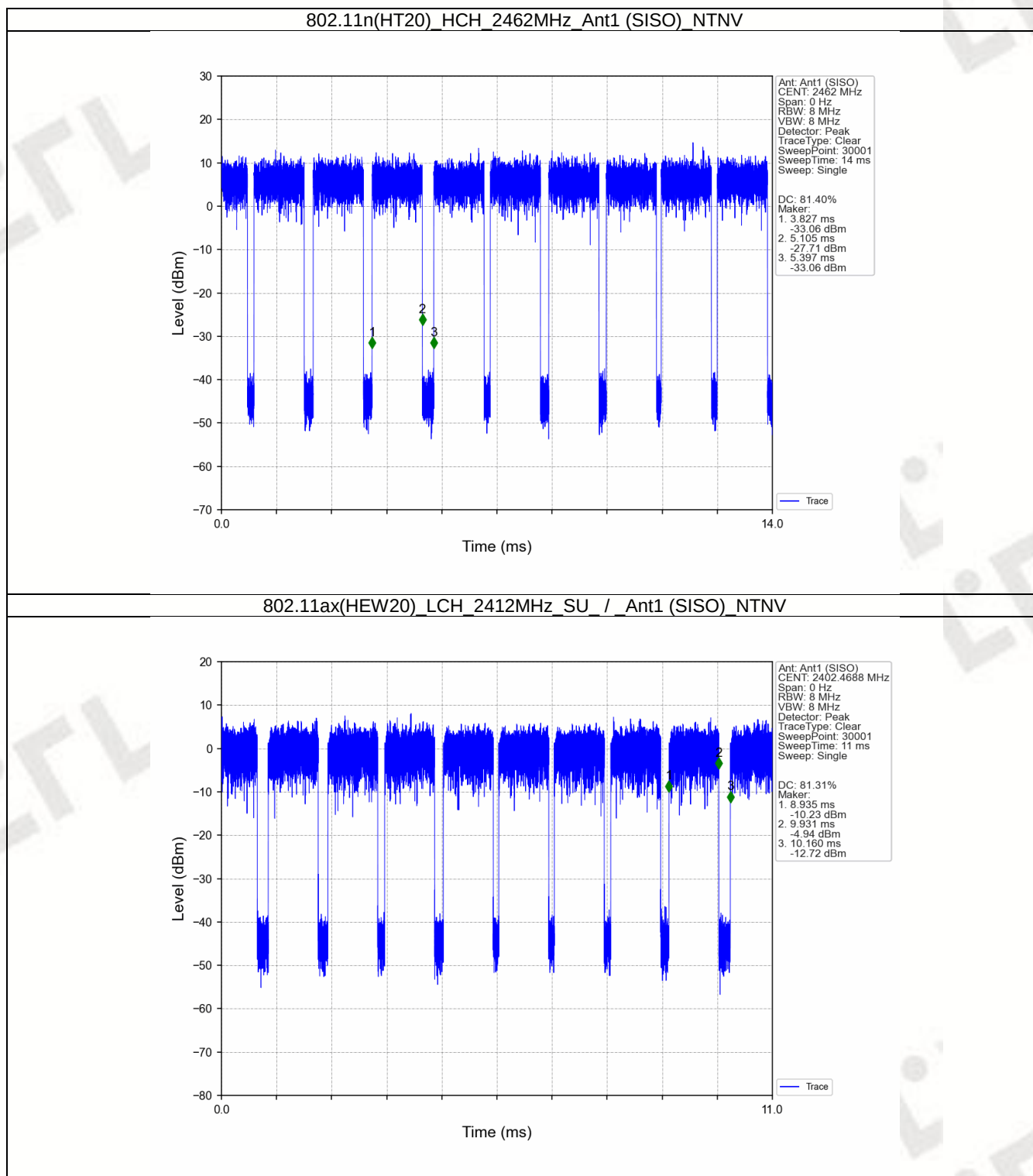
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



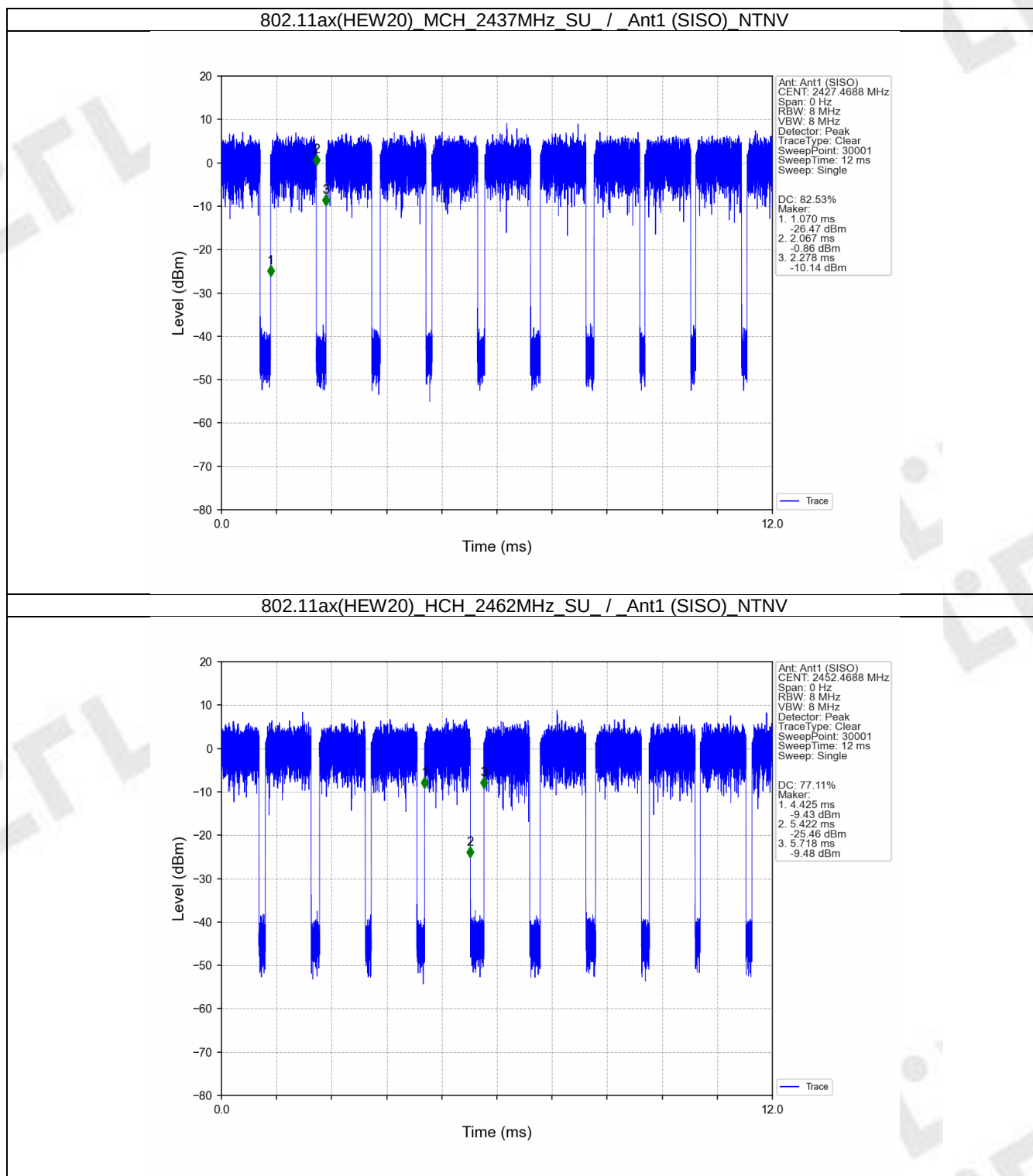
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



FCC ID: 2AUR8-EBOMINI



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	12.920	/	Pass
		2437	/	/	1	12.956	/	Pass
		2462	/	/	1	12.895	/	Pass
802.11g	SISO	2412	/	/	1	16.588	/	Pass
		2437	/	/	1	16.586	/	Pass
		2462	/	/	1	16.546	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.877	/	Pass
		2437	/	/	1	17.867	/	Pass
		2462	/	/	1	17.883	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	19.115	/	Pass
		2437	SU	/	1	19.103	/	Pass
		2462	SU	/	1	19.135	/	Pass

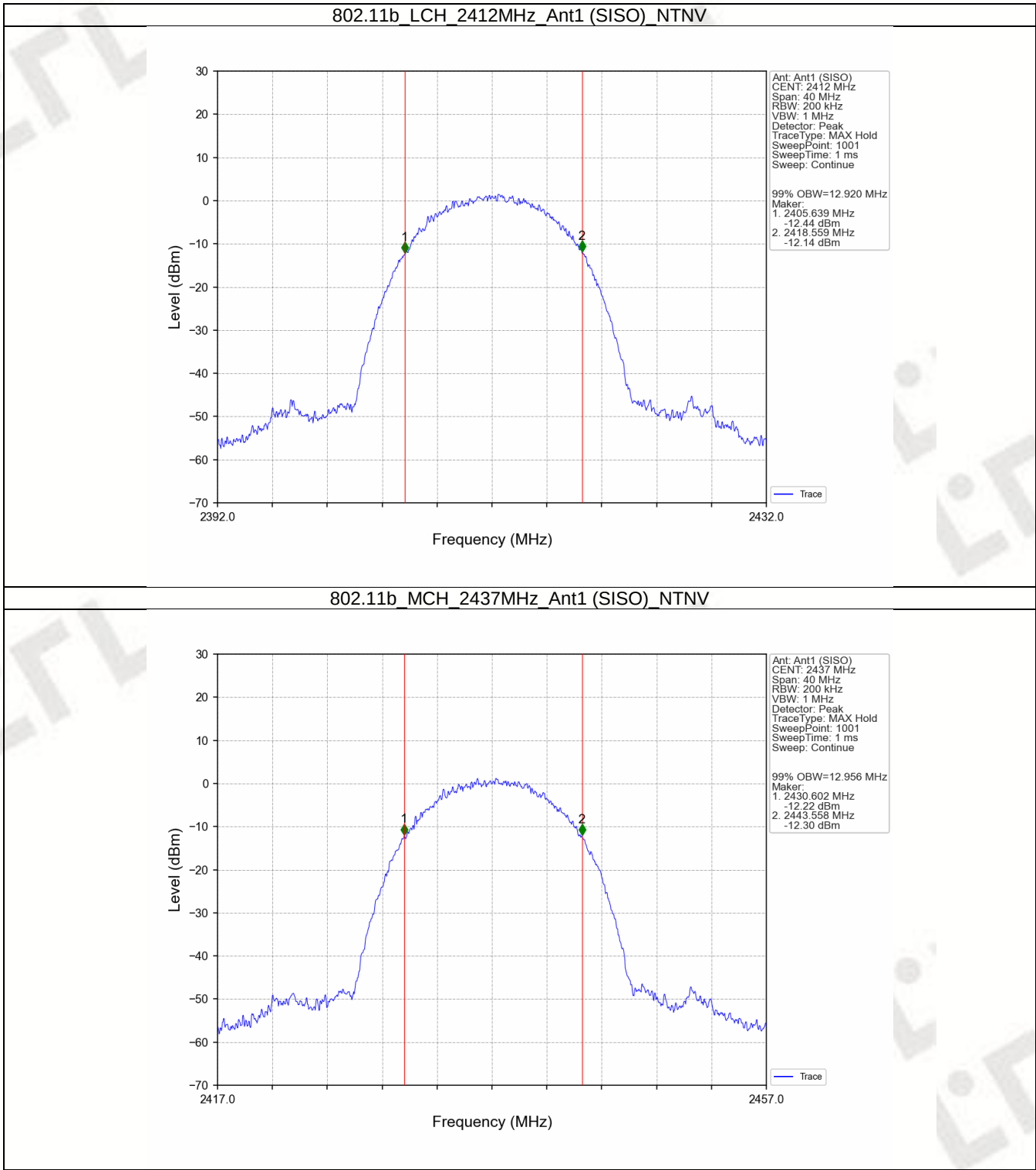
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	9.542	≥ 0.5	Pass
		2437	/	/	1	8.872	≥ 0.5	Pass
		2462	/	/	1	9.045	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	16.493	≥ 0.5	Pass
		2437	/	/	1	16.465	≥ 0.5	Pass
		2462	/	/	1	16.554	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.539	≥ 0.5	Pass
		2437	/	/	1	17.540	≥ 0.5	Pass
		2462	/	/	1	17.577	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.904	≥ 0.5	Pass
		2437	SU	/	1	18.934	≥ 0.5	Pass
		2462	SU	/	1	18.995	≥ 0.5	Pass

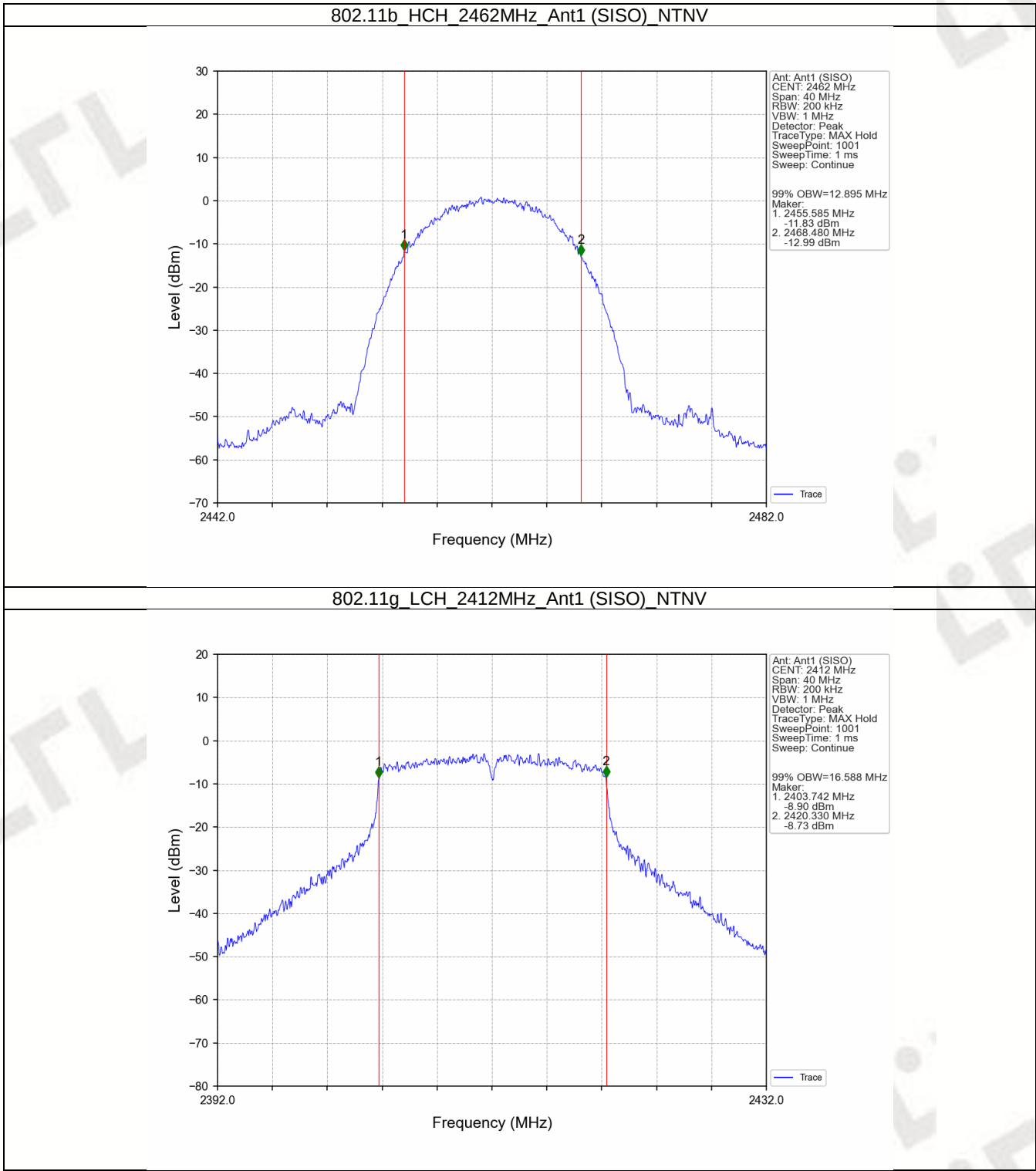
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2.2 Test Graph

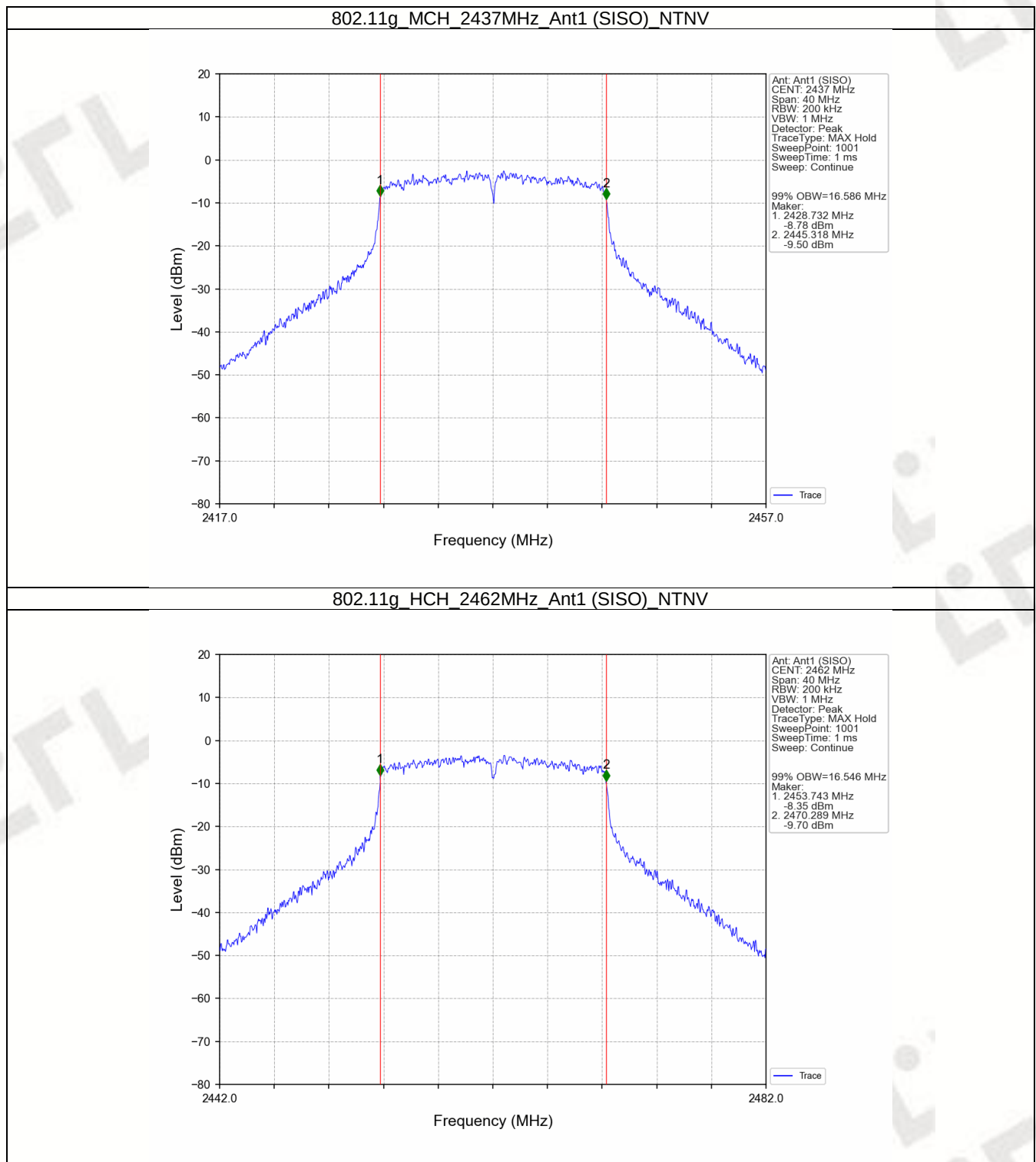
2.2.1 OBW



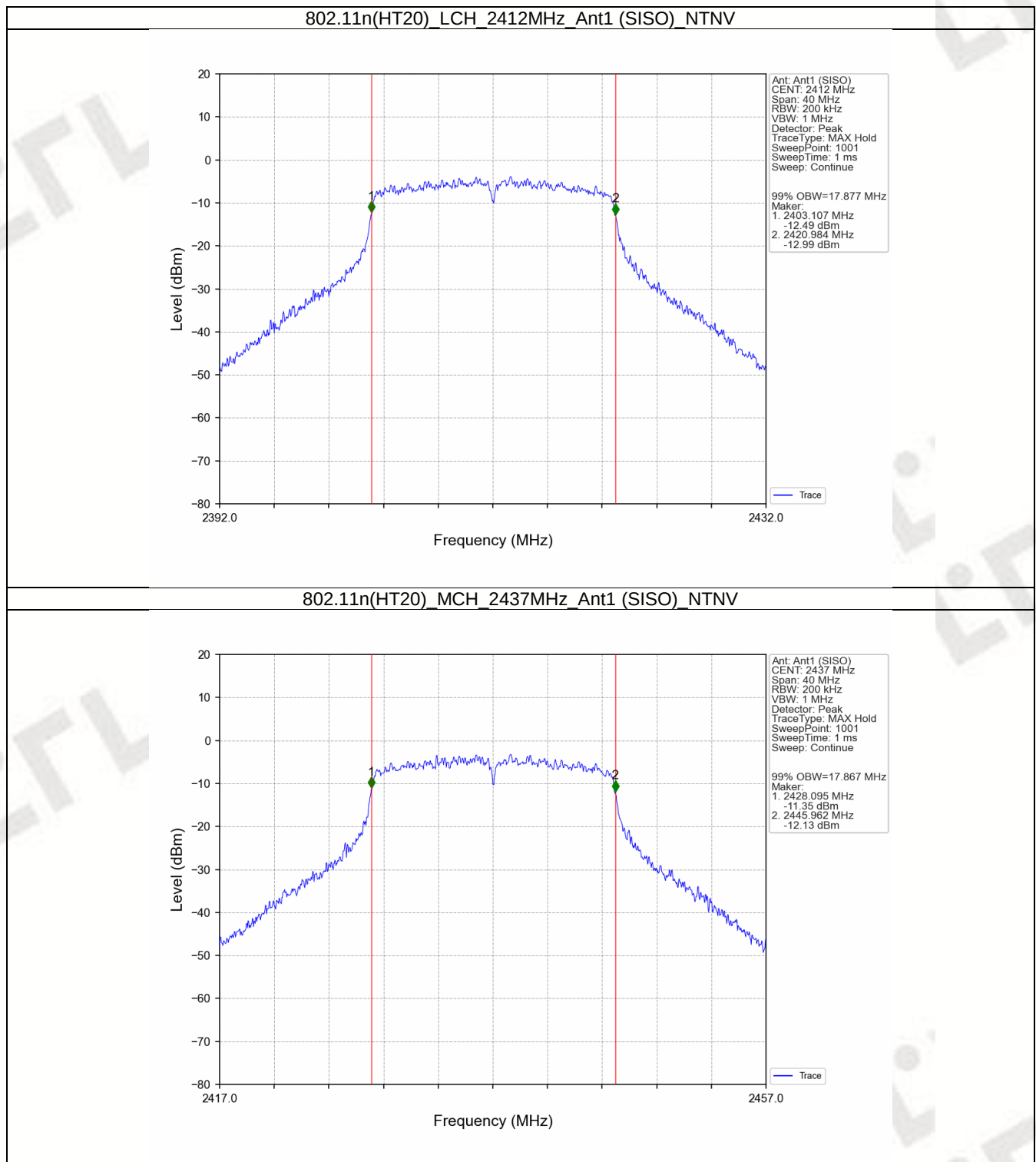
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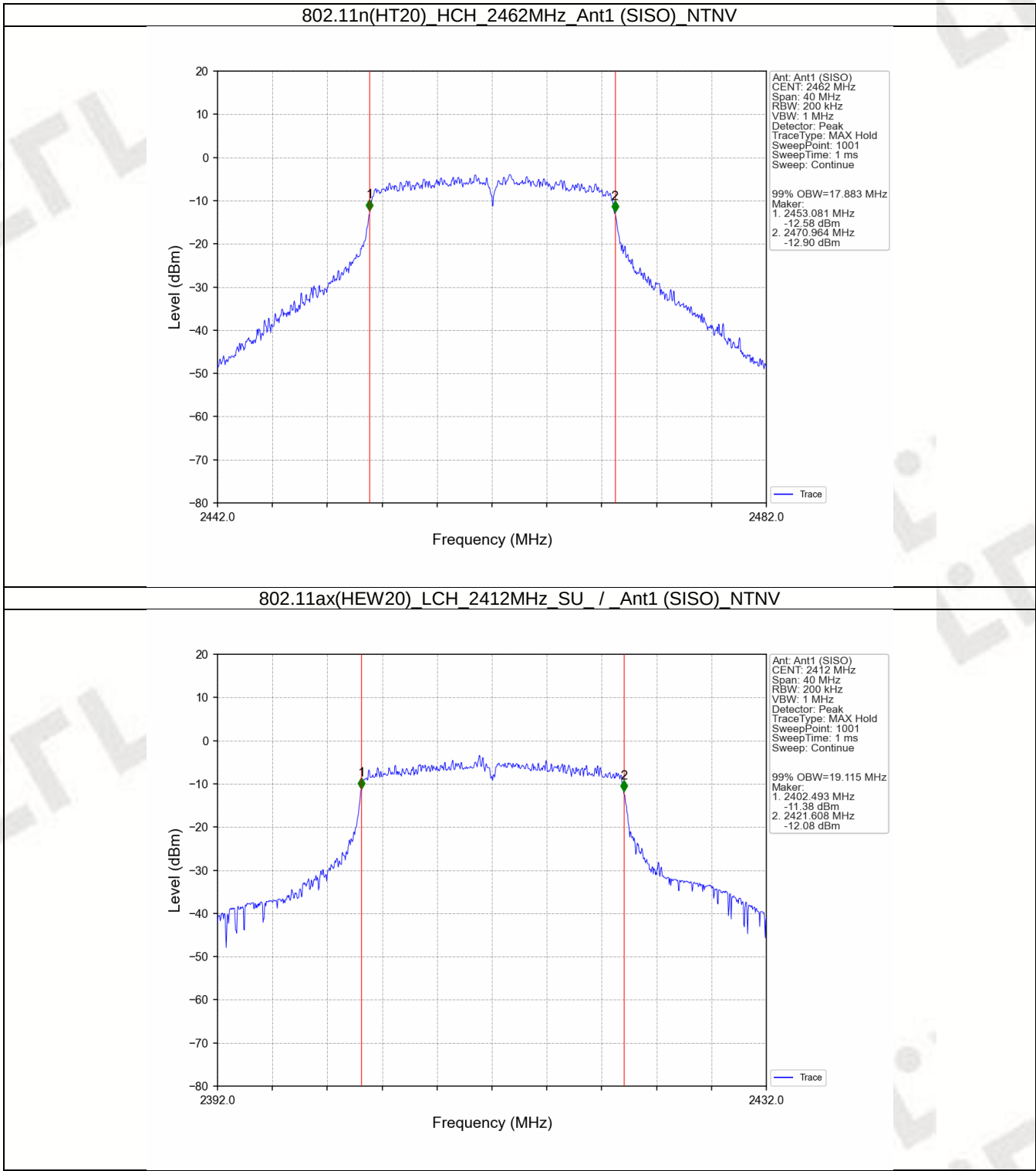
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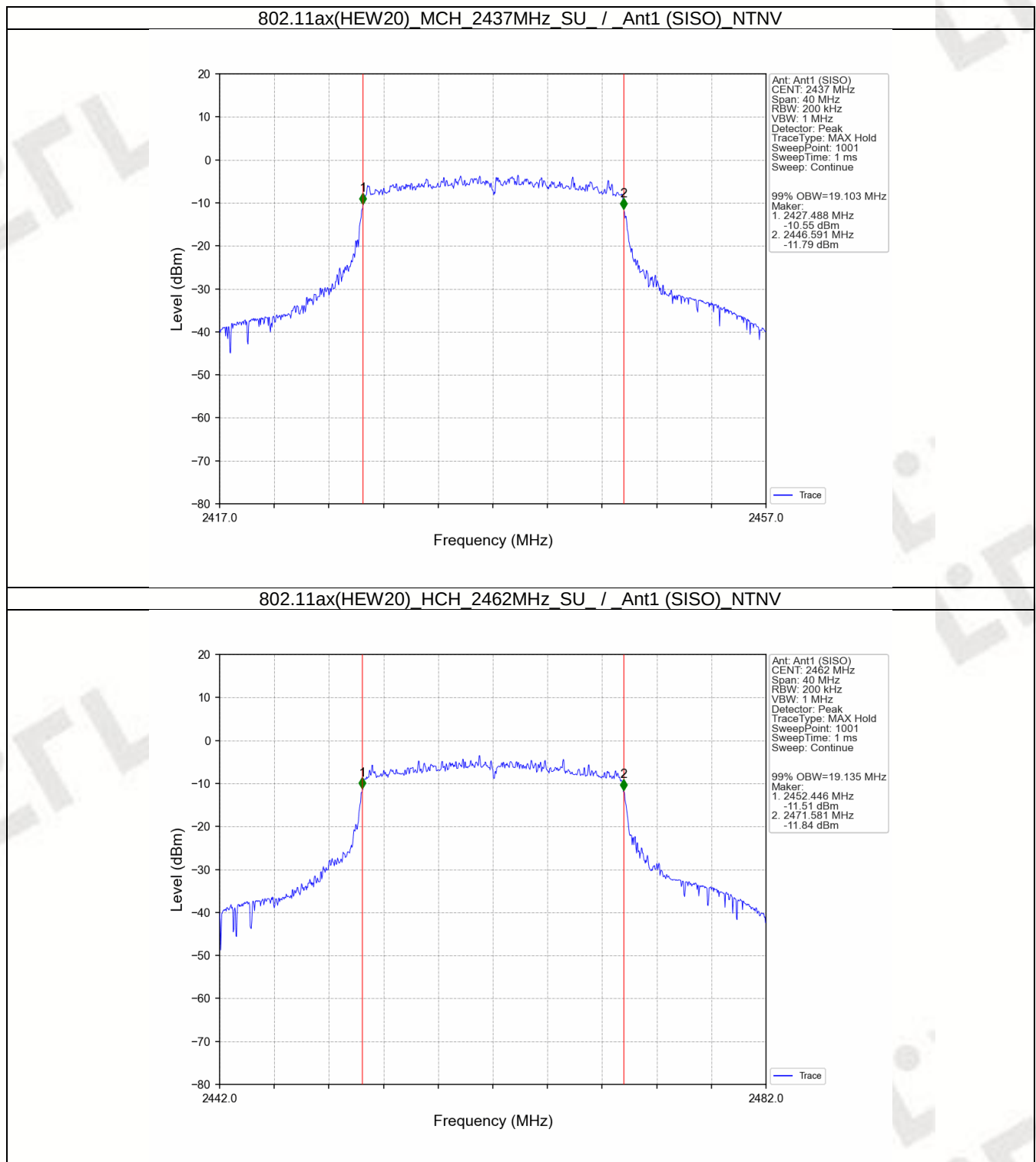
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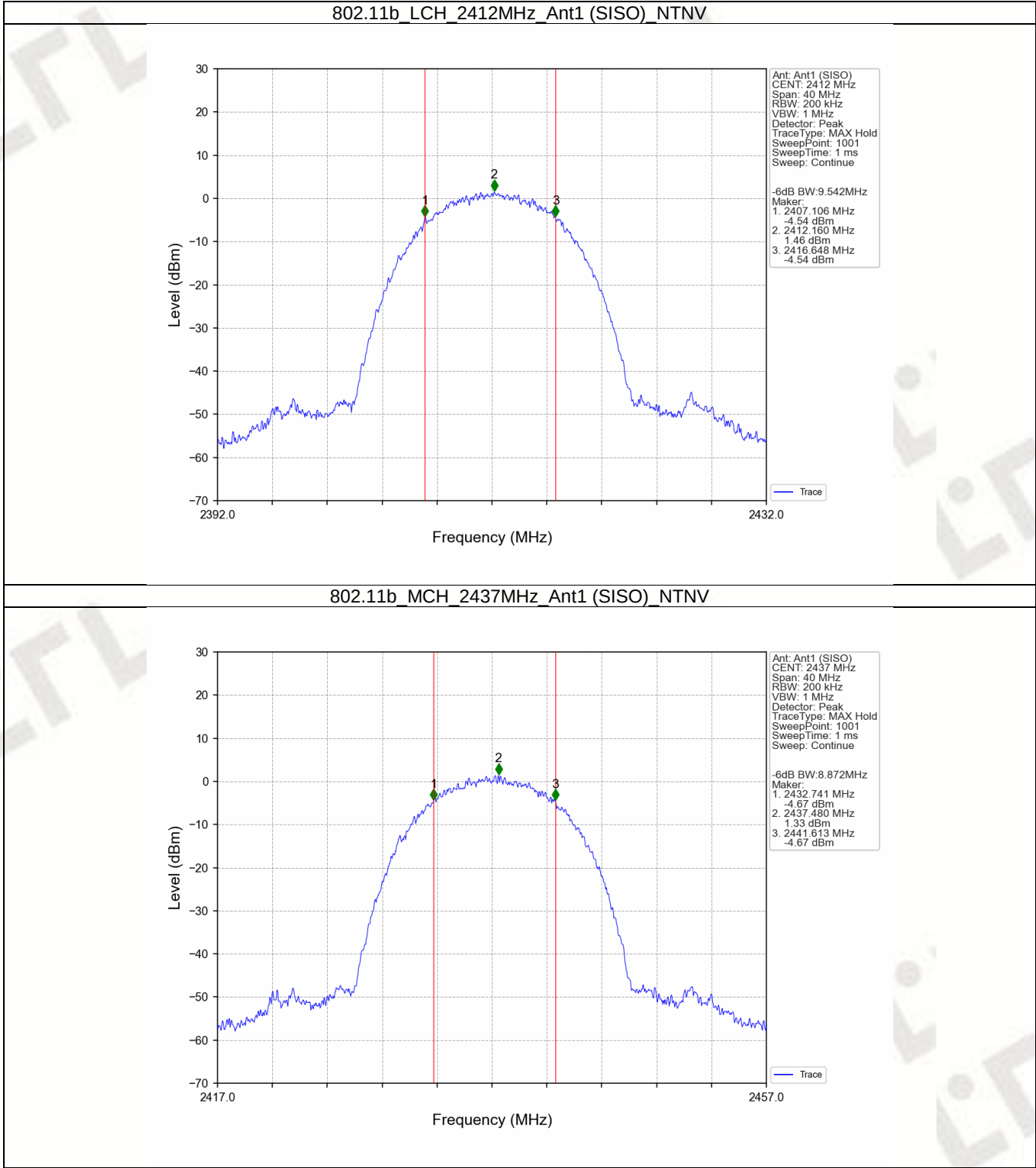


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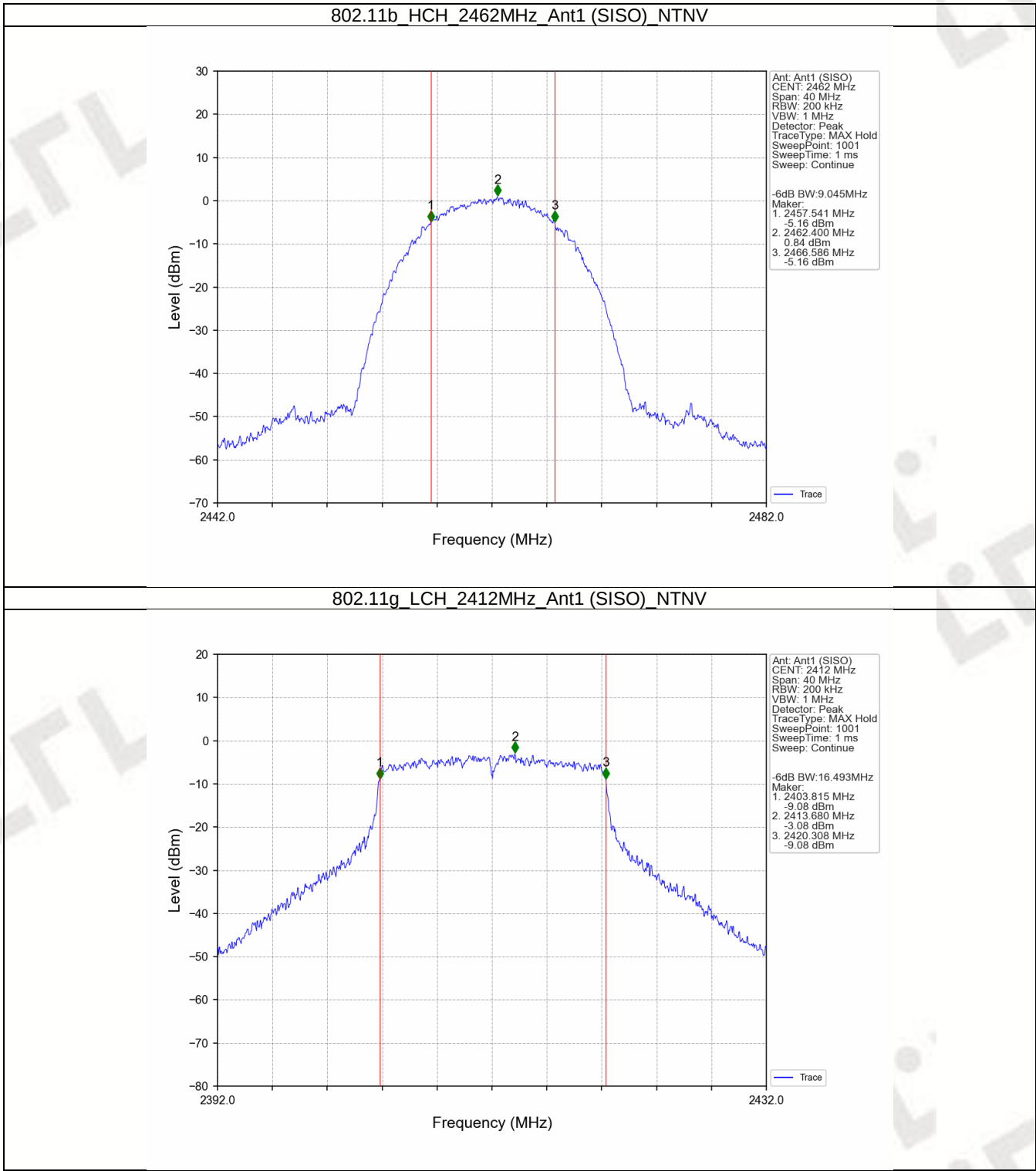


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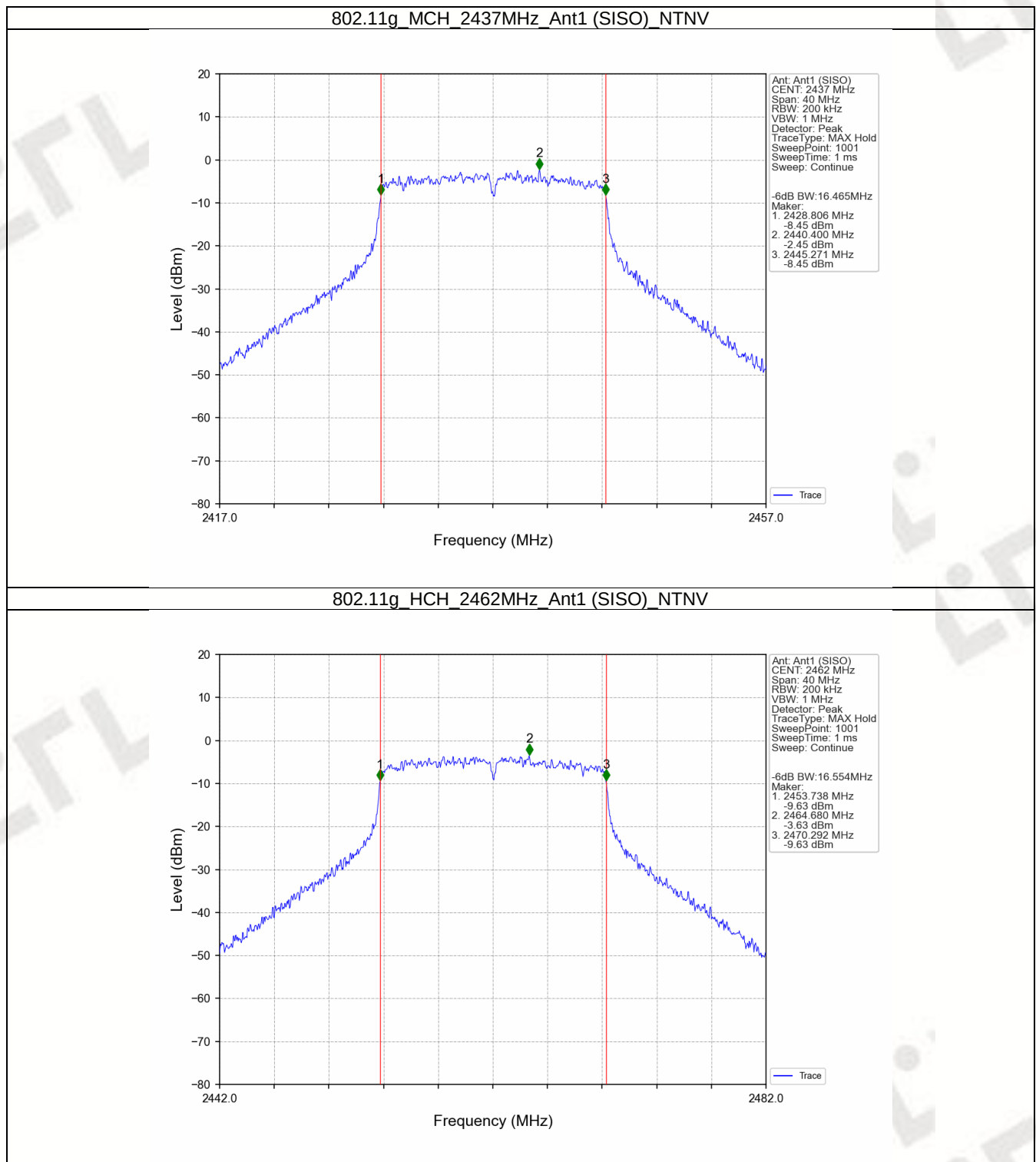
2.2.2 6dB BW



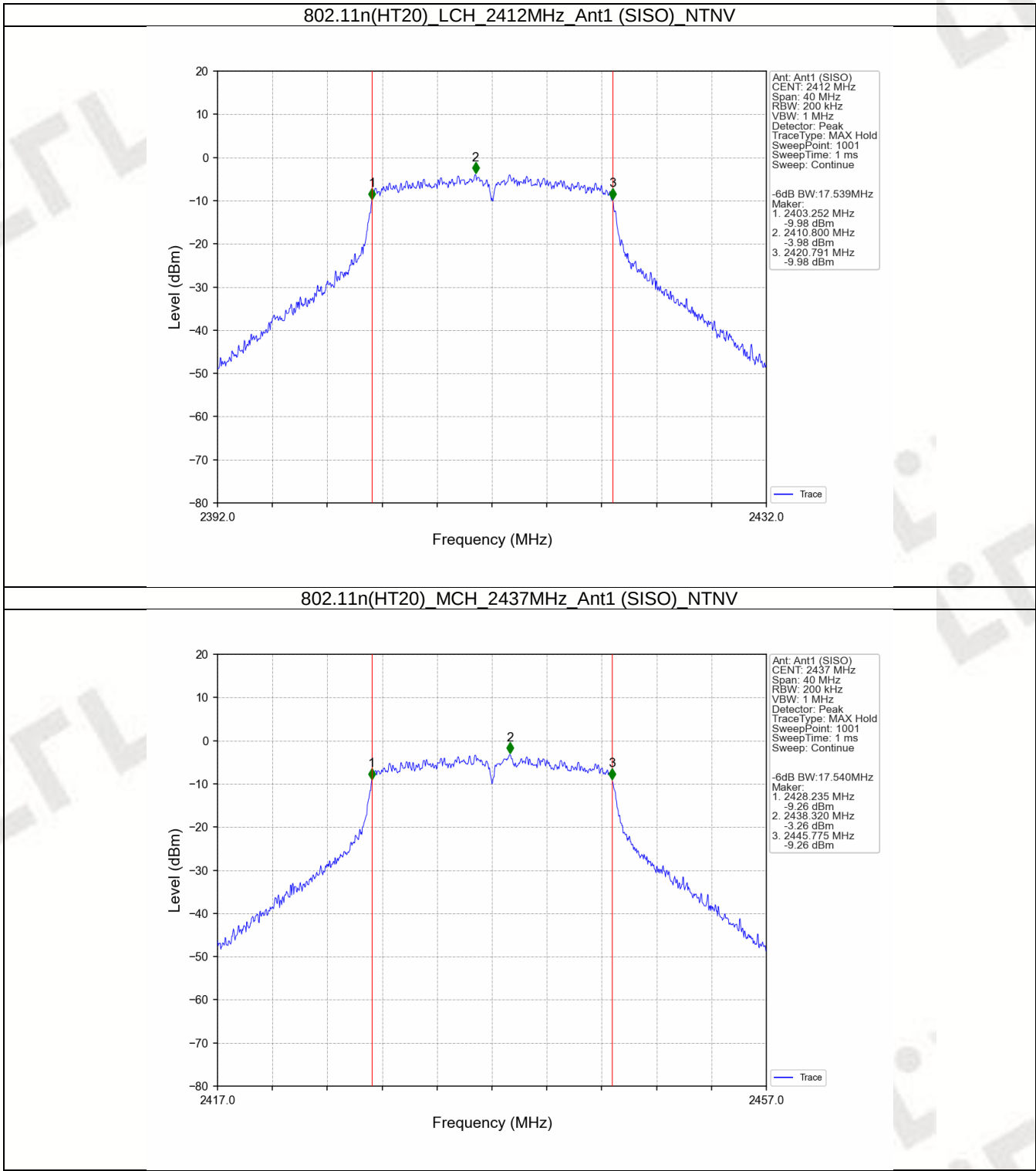
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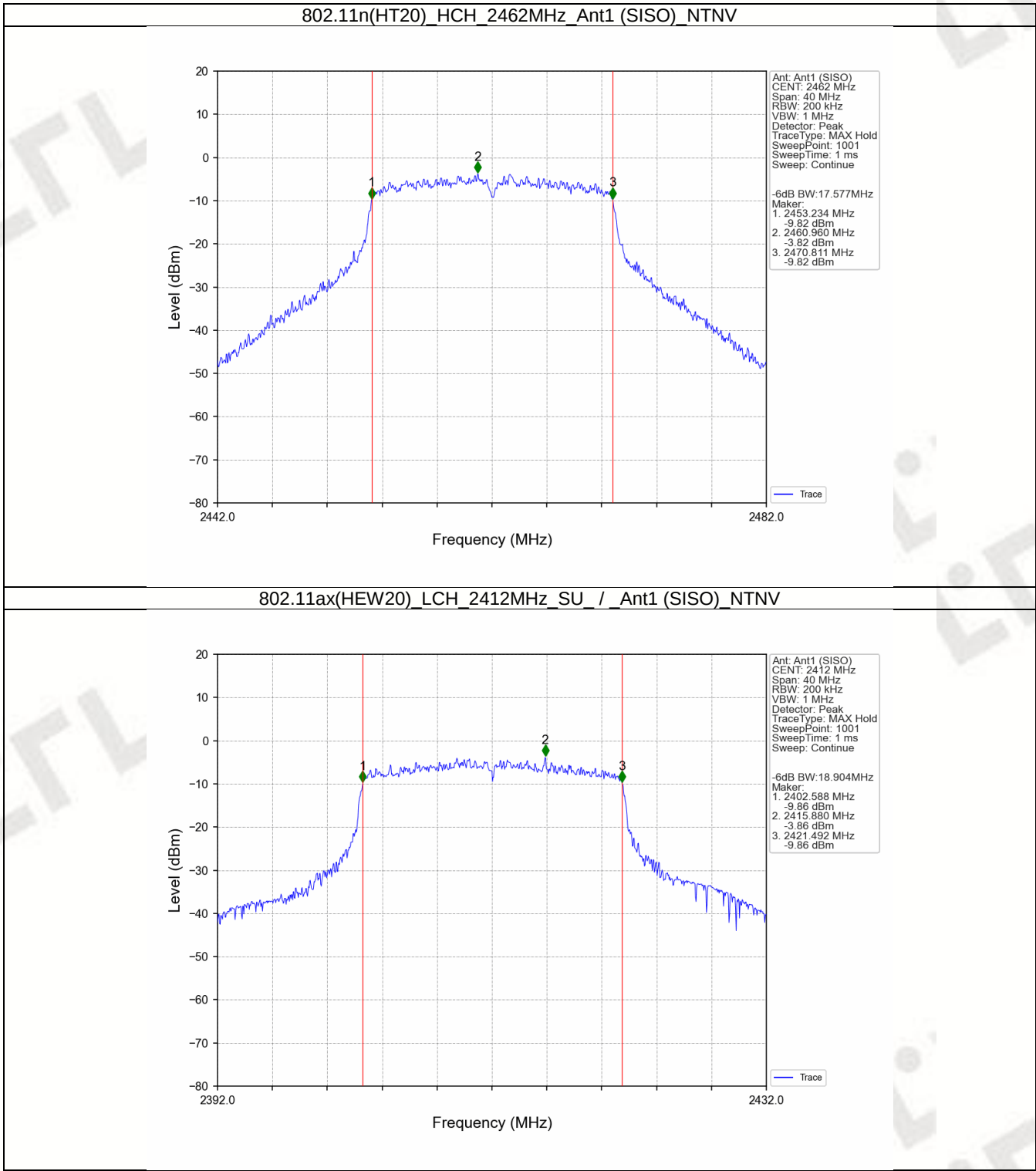
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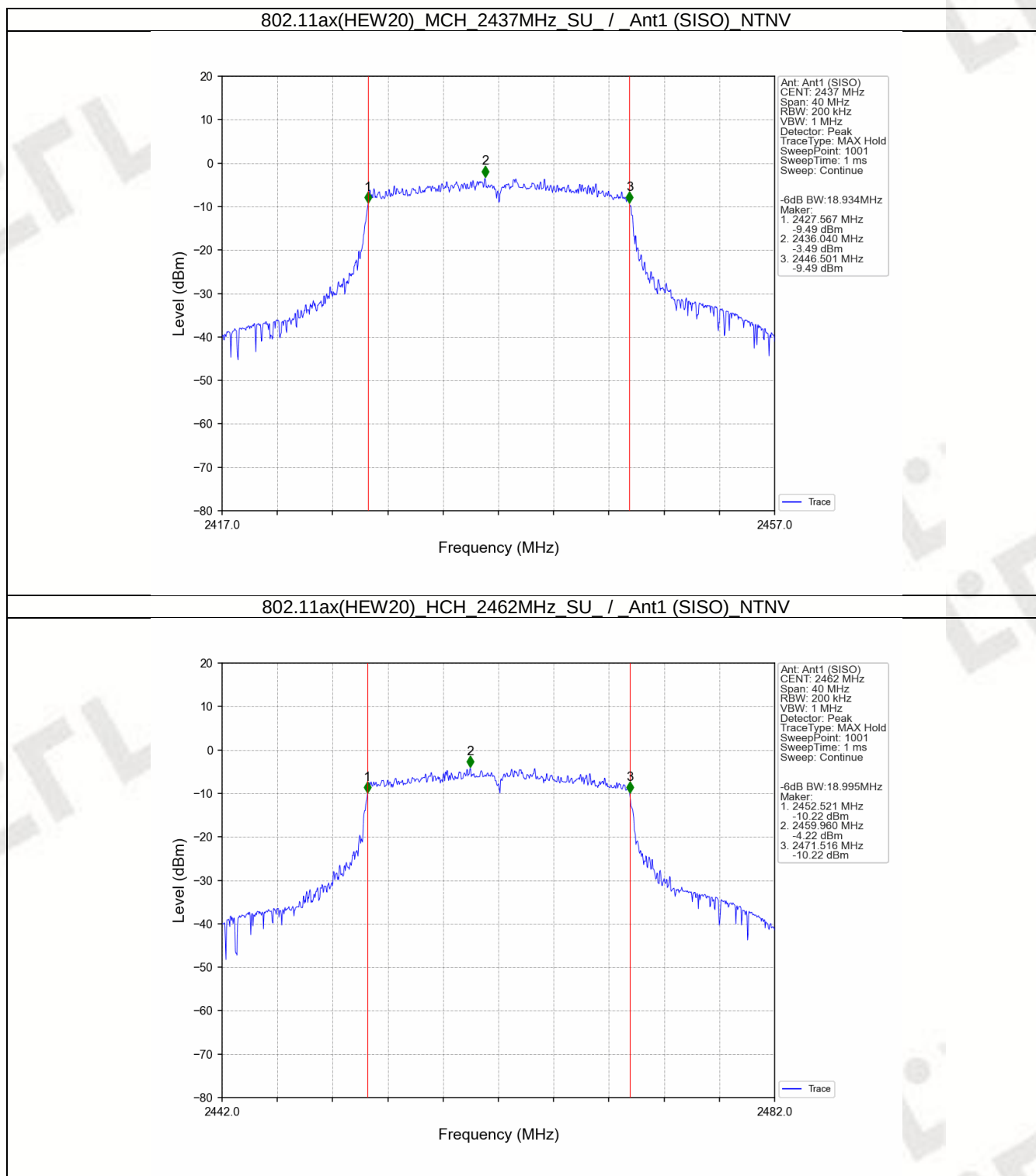
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FCC ID: 2AUR8-EBOMINI



FCC ID: 2AUR8-EBOMINI



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	13.84	<=30	Pass
		2437	/	/	13.27	<=30	Pass
		2462	/	/	13.12	<=30	Pass
802.11g	SISO	2412	/	/	14.39	<=30	Pass
		2437	/	/	14.84	<=30	Pass
		2462	/	/	14.19	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	13.71	<=30	Pass
		2437	/	/	14.32	<=30	Pass
		2462	/	/	13.67	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	/	13.97	<=30	Pass
		2437	SU	/	14.64	<=30	Pass
		2462	SU	/	13.95	<=30	Pass

Note1: Antenna Gain: Ant1: 4.41dBi;

FCC ID: 2AUR8-EBOMINI

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

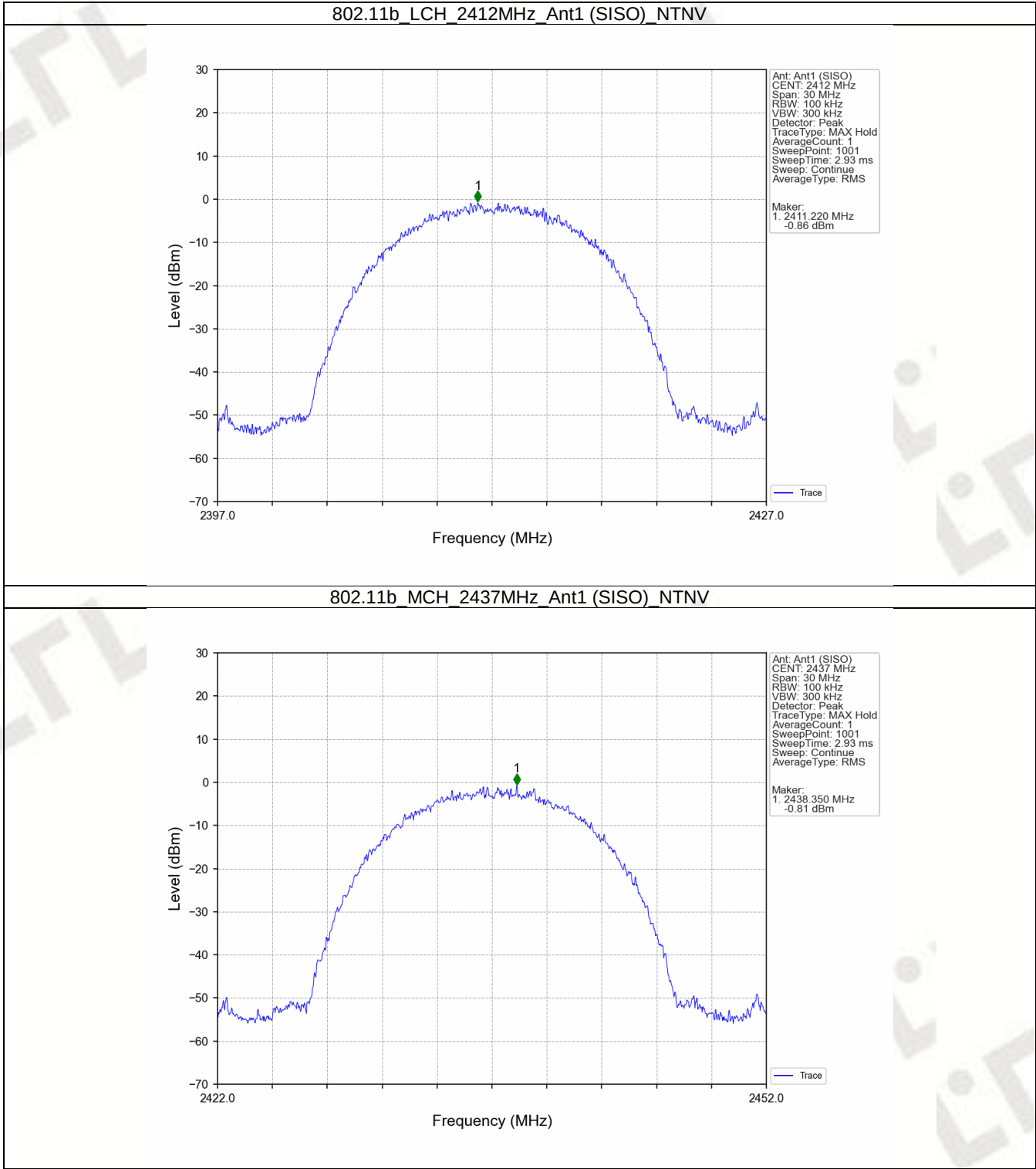
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm)		Verdict
					ANT1	Limit(dBm/3kHz)	
802.11b	SISO	2412	/	/	-0.86dBm/100kHz	<=8	Pass
		2437	/	/	-0.81dBm/100kHz	<=8	Pass
		2462	/	/	-1.66dBm/100kHz	<=8	Pass
802.11g	SISO	2412	/	/	-4.33dBm/100kHz	<=8	Pass
		2437	/	/	-3.89dBm/100kHz	<=8	Pass
		2462	/	/	-4.62dBm/100kHz	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-4.72dBm/100kHz	<=8	Pass
		2437	/	/	-4.53dBm/100kHz	<=8	Pass
		2462	/	/	-5.24dBm/100kHz	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	/	-5.65dBm/100kHz	<=8	Pass
		2437	SU	/	-5.05dBm/100kHz	<=8	Pass
		2462	SU	/	-5.72dBm/100kHz	<=8	Pass

Note1: Antenna Gain: Ant1: 4.41dBi;

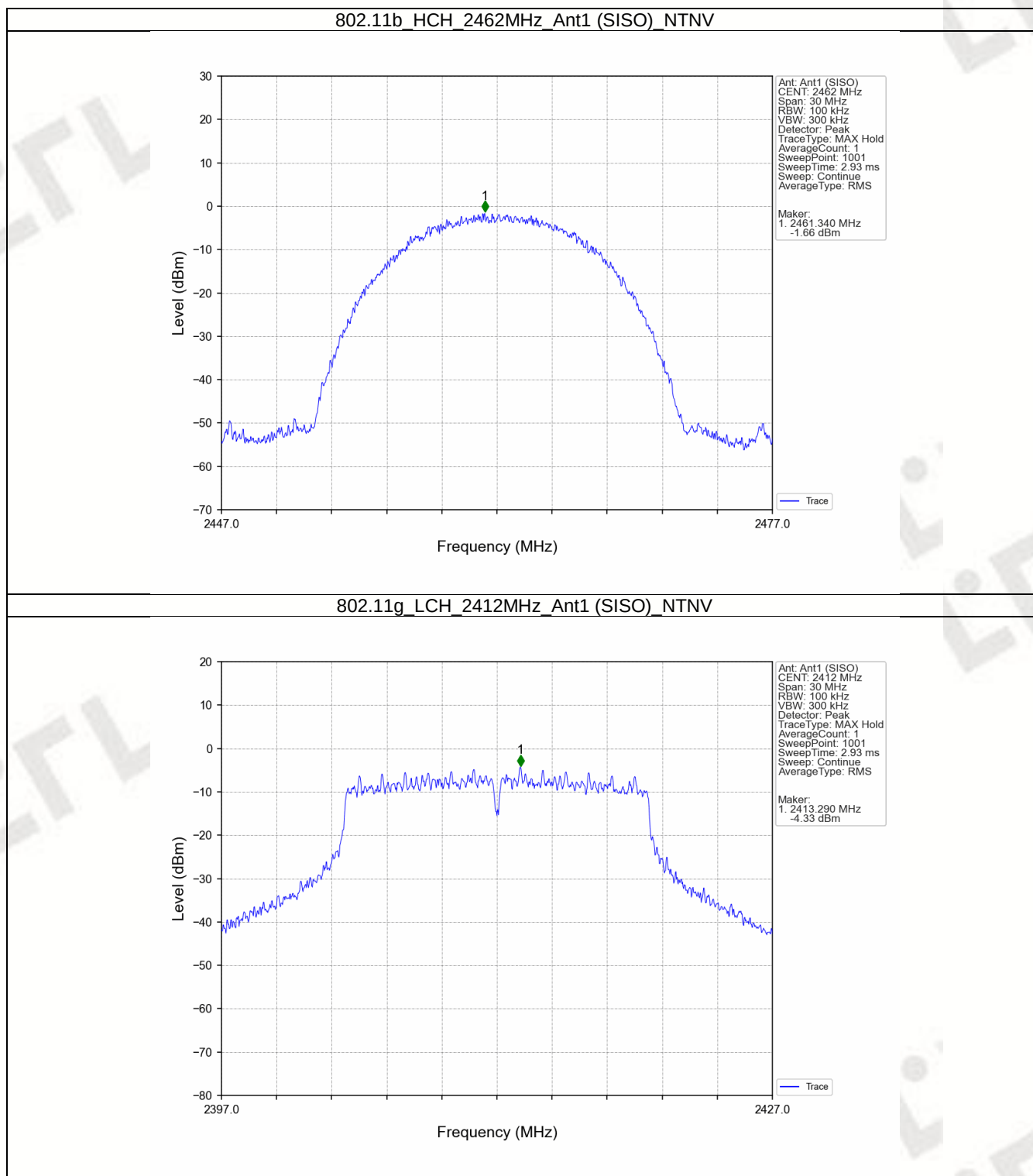
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4.2 Test Graph

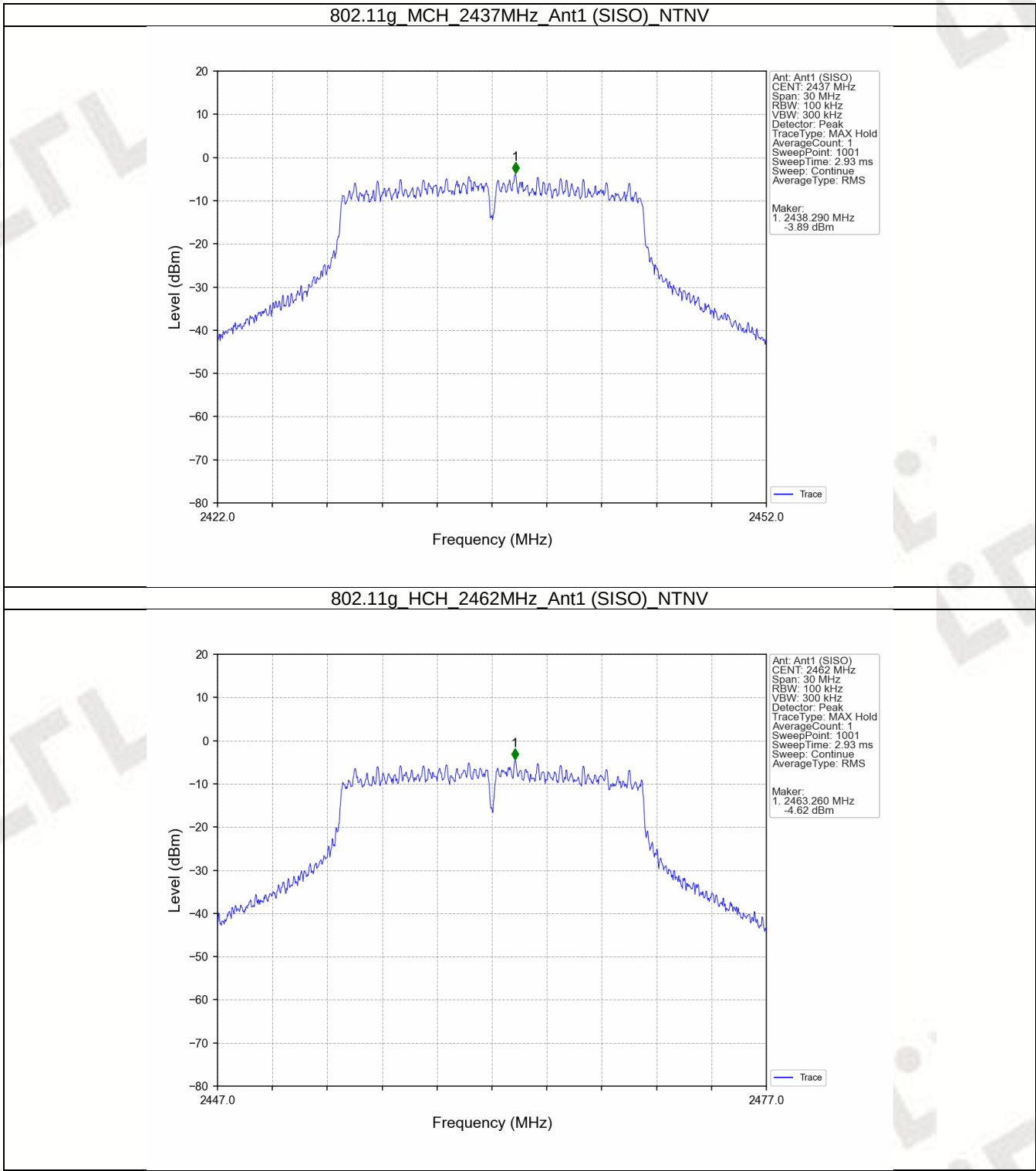
4.2.1 PSD



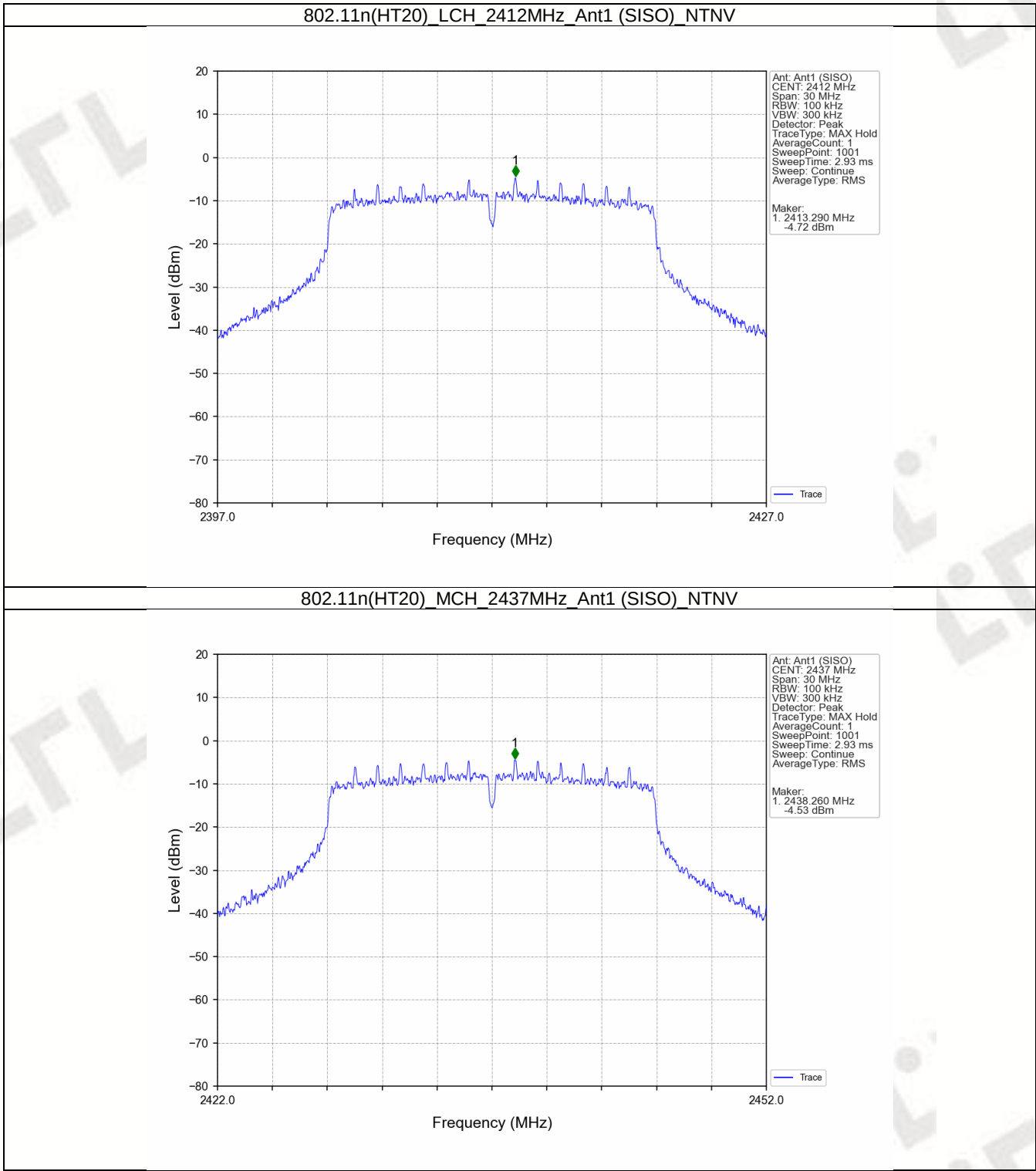
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FCC ID: 2AUR8-EBOMINI

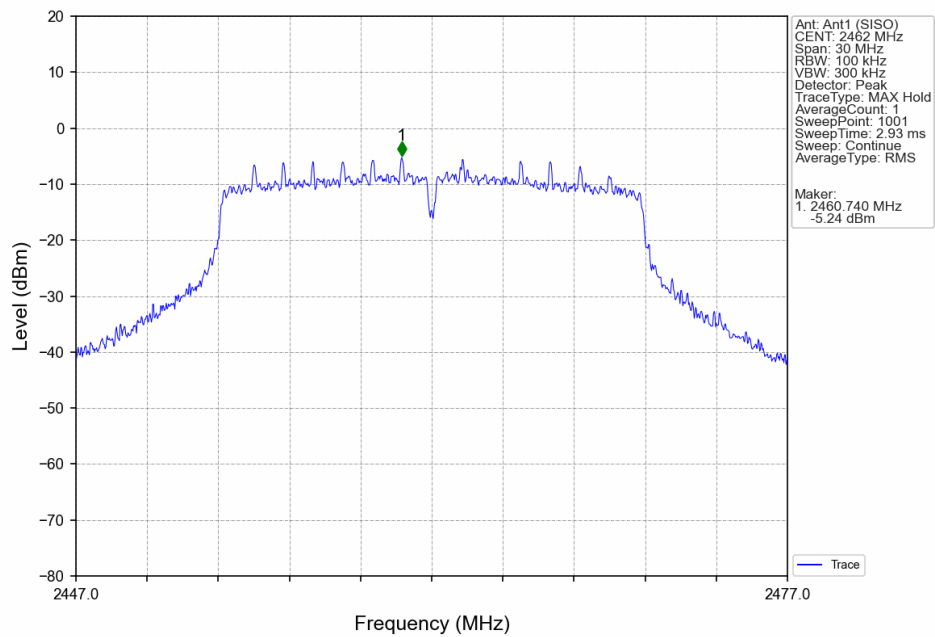


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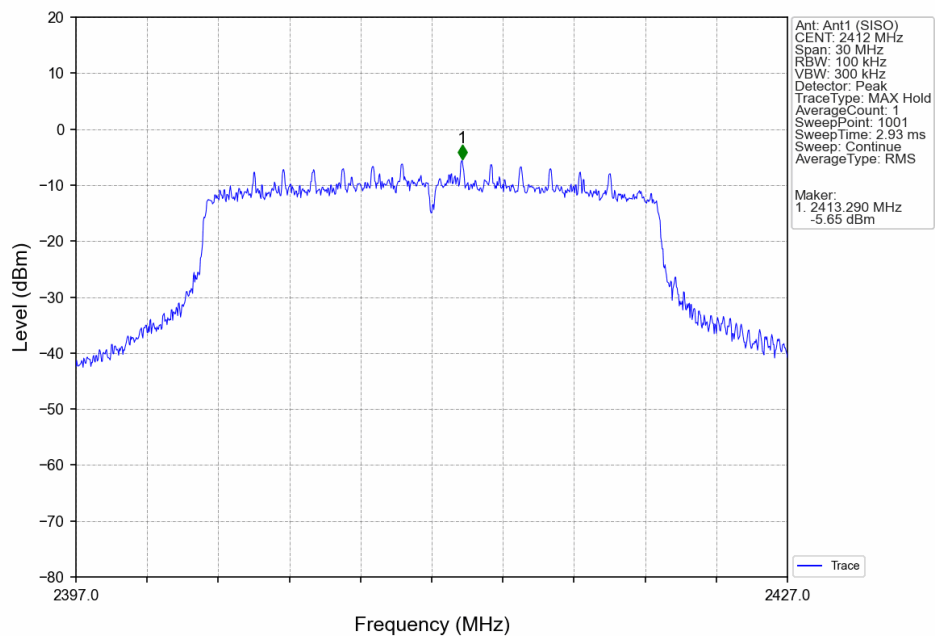


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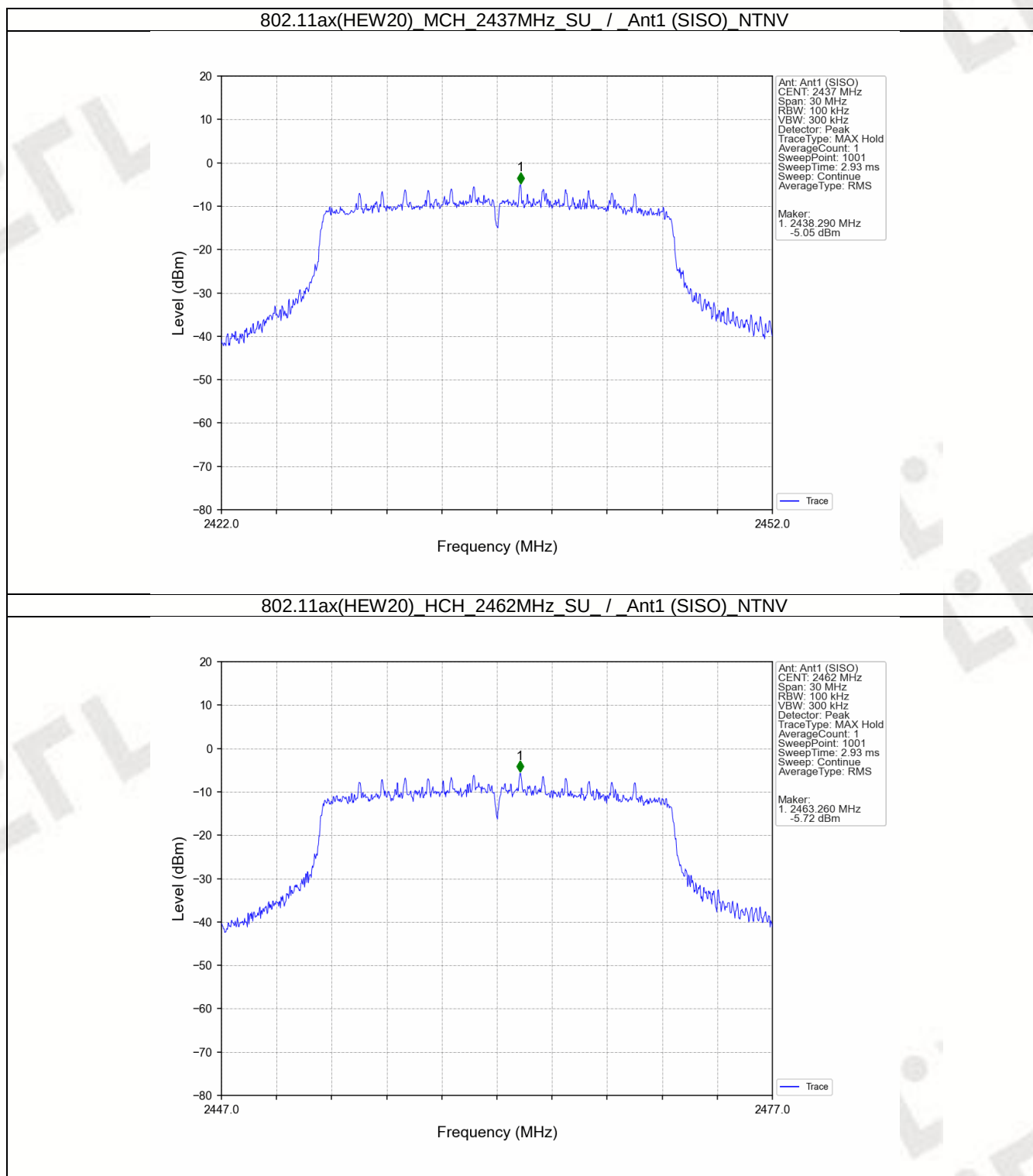
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



FCC ID: 2AUR8-EBOMINI



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	-0.16
		2437	/	/	1	-0.90
		2462	/	/	1	-0.98
802.11g	SISO	2412	/	/	1	-4.37
		2437	/	/	1	-3.88
		2462	/	/	1	-4.62
802.11n (HT20)	SISO	2412	/	/	1	-4.65
		2437	/	/	1	-4.06
		2462	/	/	1	-4.74
802.11ax (HEW20)	SISO	2412	SU	/	1	-5.70
		2437	SU	/	1	-5.06
		2462	SU	/	1	-5.67

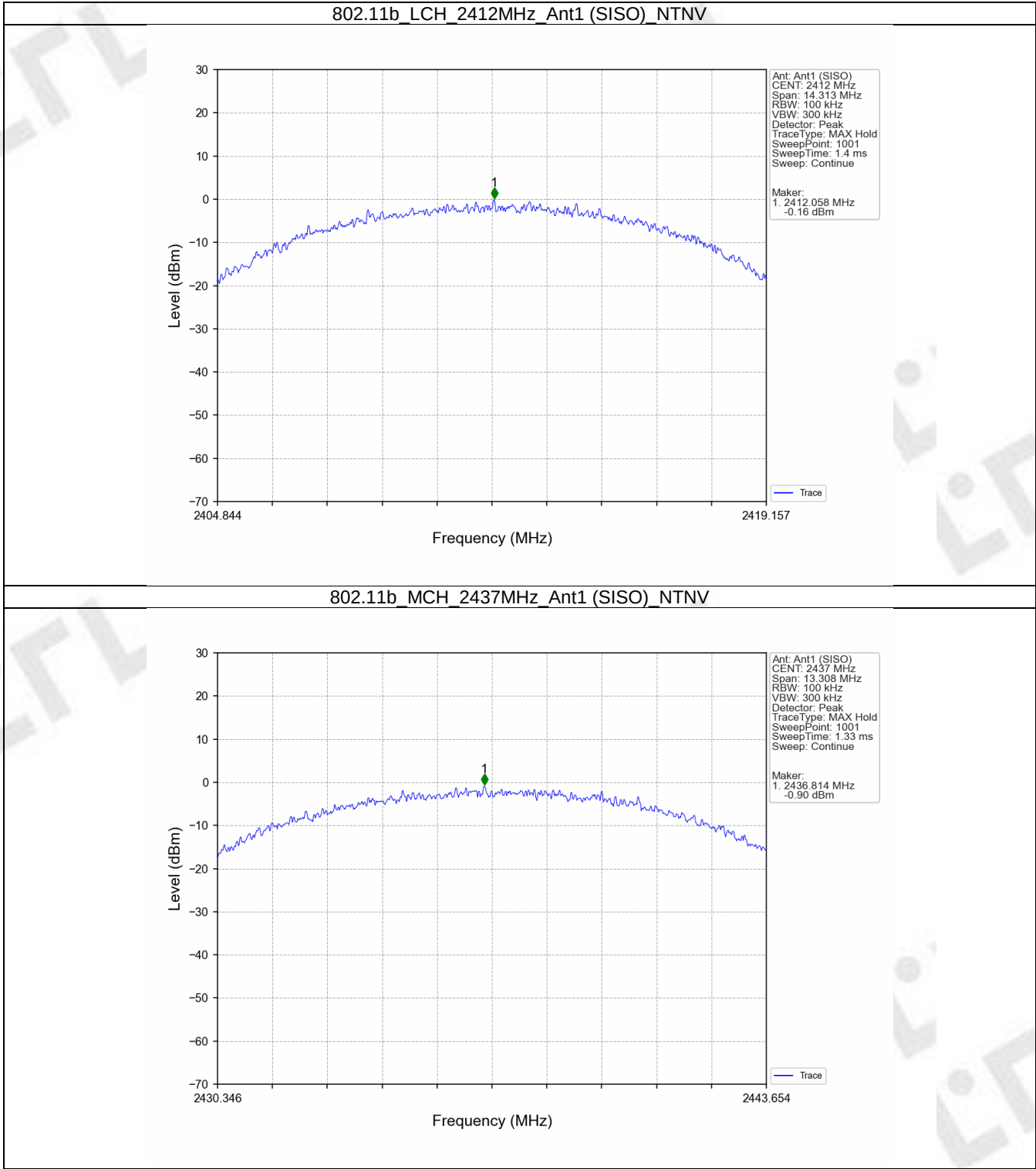
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	-0.16	-20.16	Pass
		2437	/	/	1	-0.16	-20.16	Pass
		2462	/	/	1	-0.16	-20.16	Pass
802.11g	SISO	2412	/	/	1	-3.88	-23.88	Pass
		2437	/	/	1	-3.88	-23.88	Pass
		2462	/	/	1	-3.88	-23.88	Pass
802.11n (HT20)	SISO	2412	/	/	1	-4.06	-24.06	Pass
		2437	/	/	1	-4.06	-24.06	Pass
		2462	/	/	1	-4.06	-24.06	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	-5.06	-25.06	Pass
		2437	SU	/	1	-5.06	-25.06	Pass
		2462	SU	/	1	-5.06	-25.06	Pass

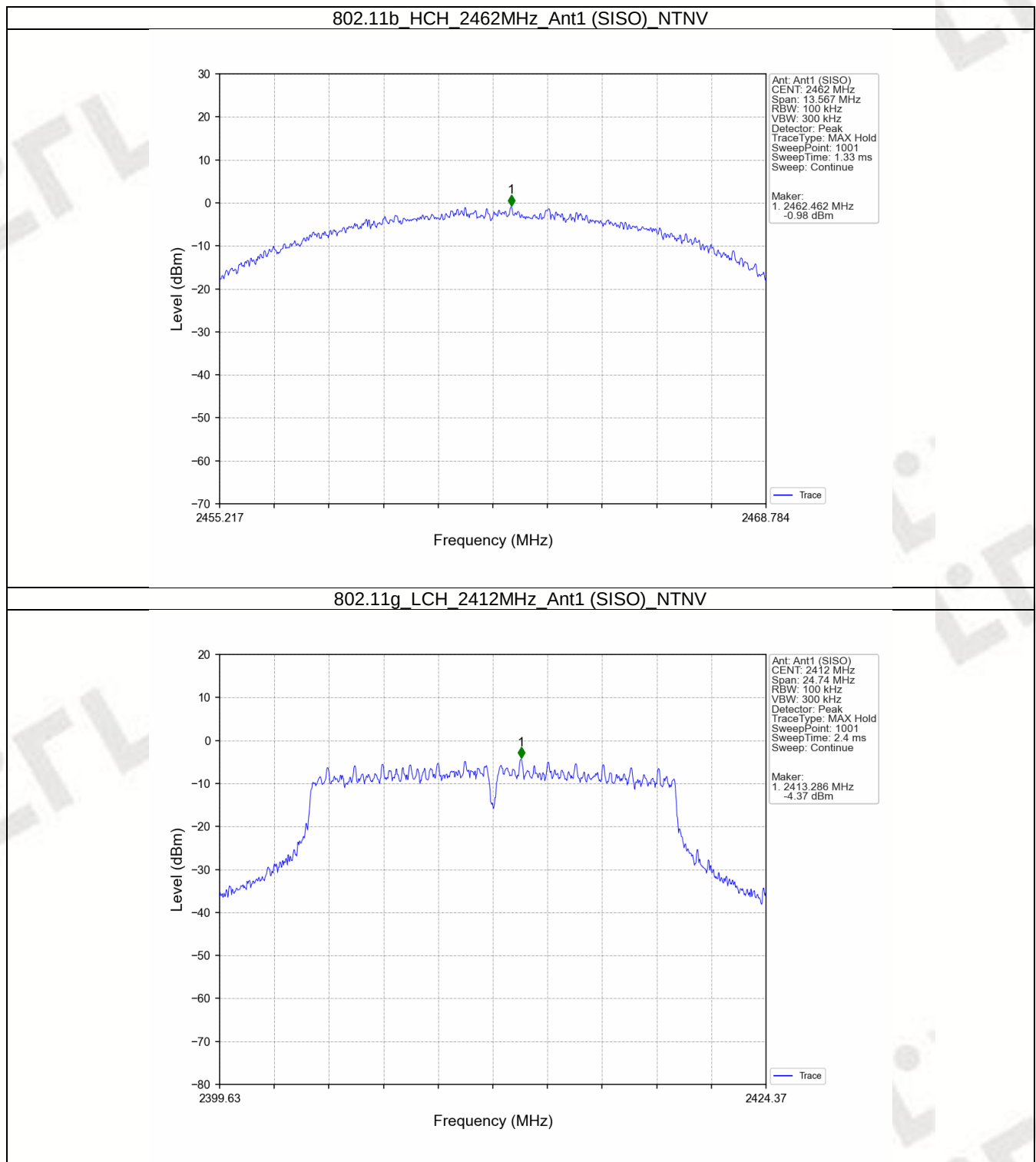
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5.2 Test Graph

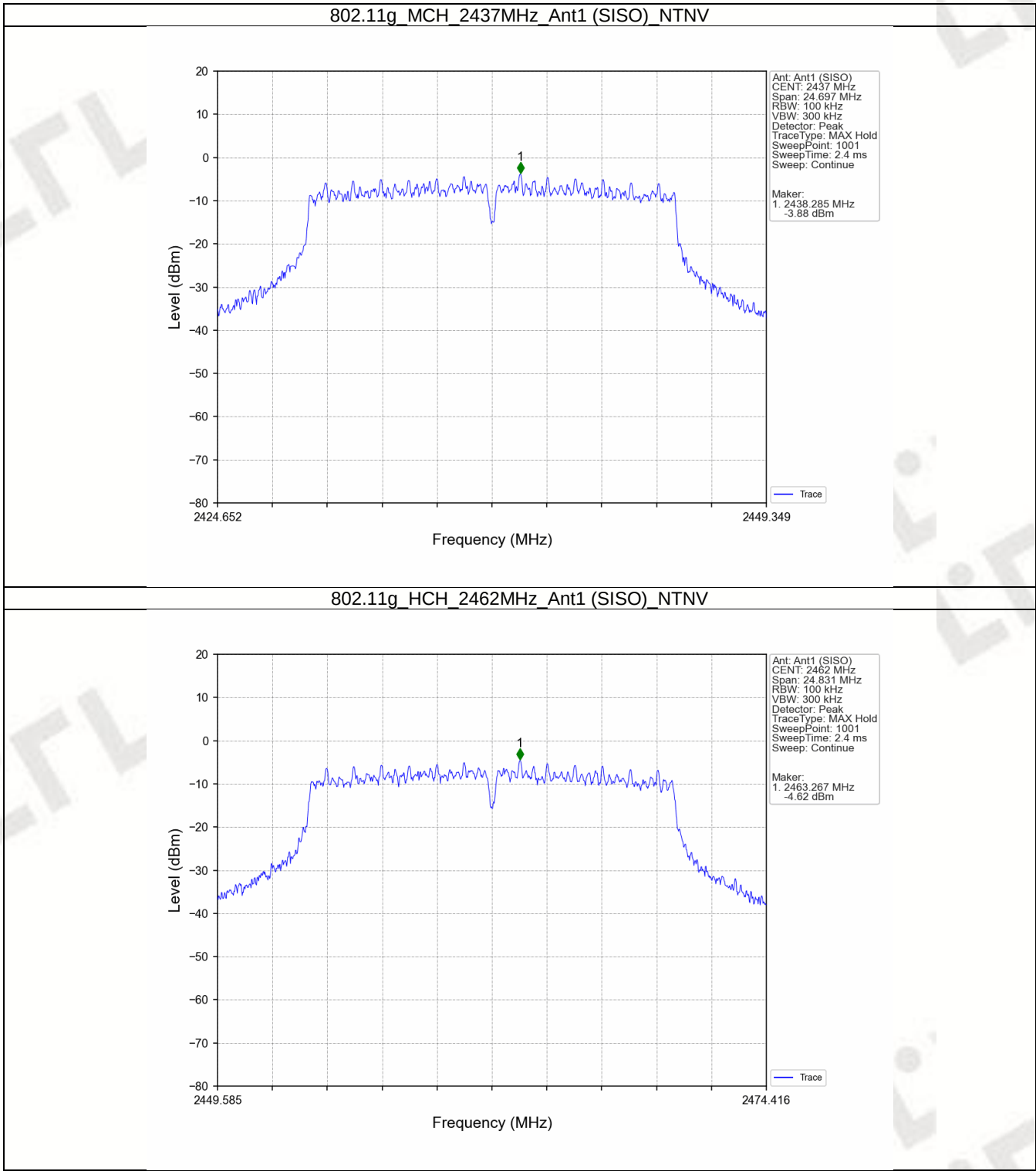
5.2.1 Ref



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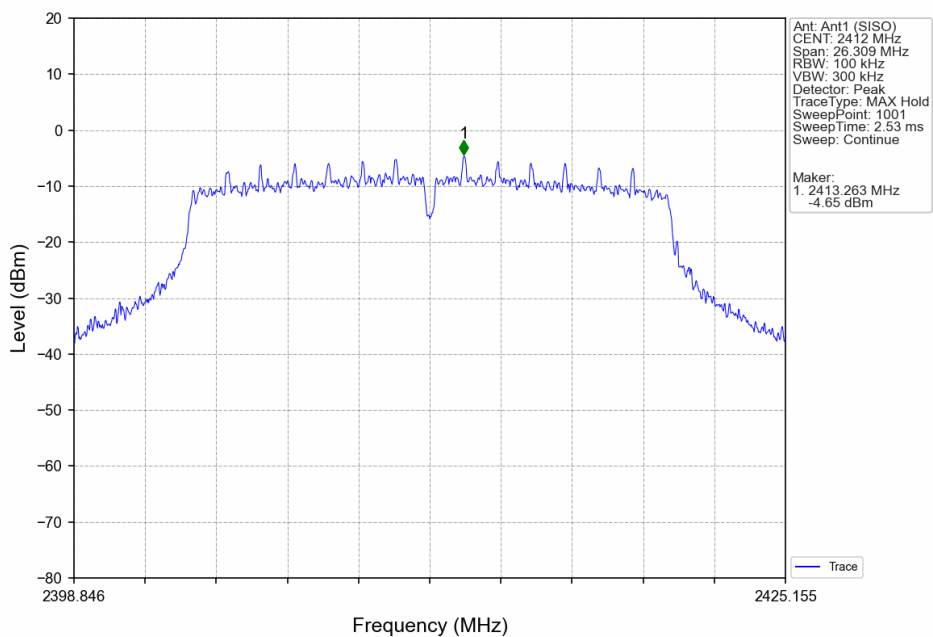


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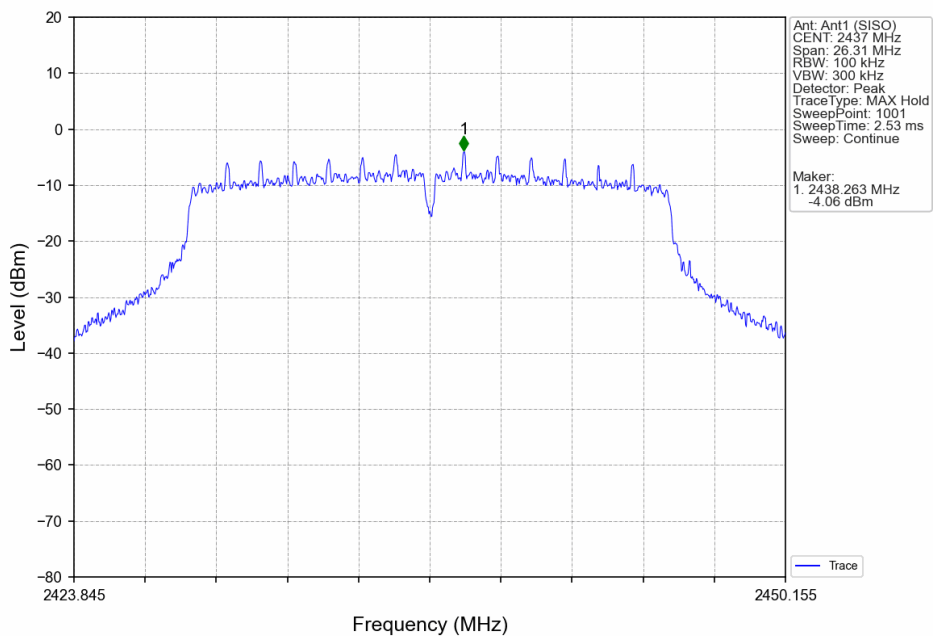


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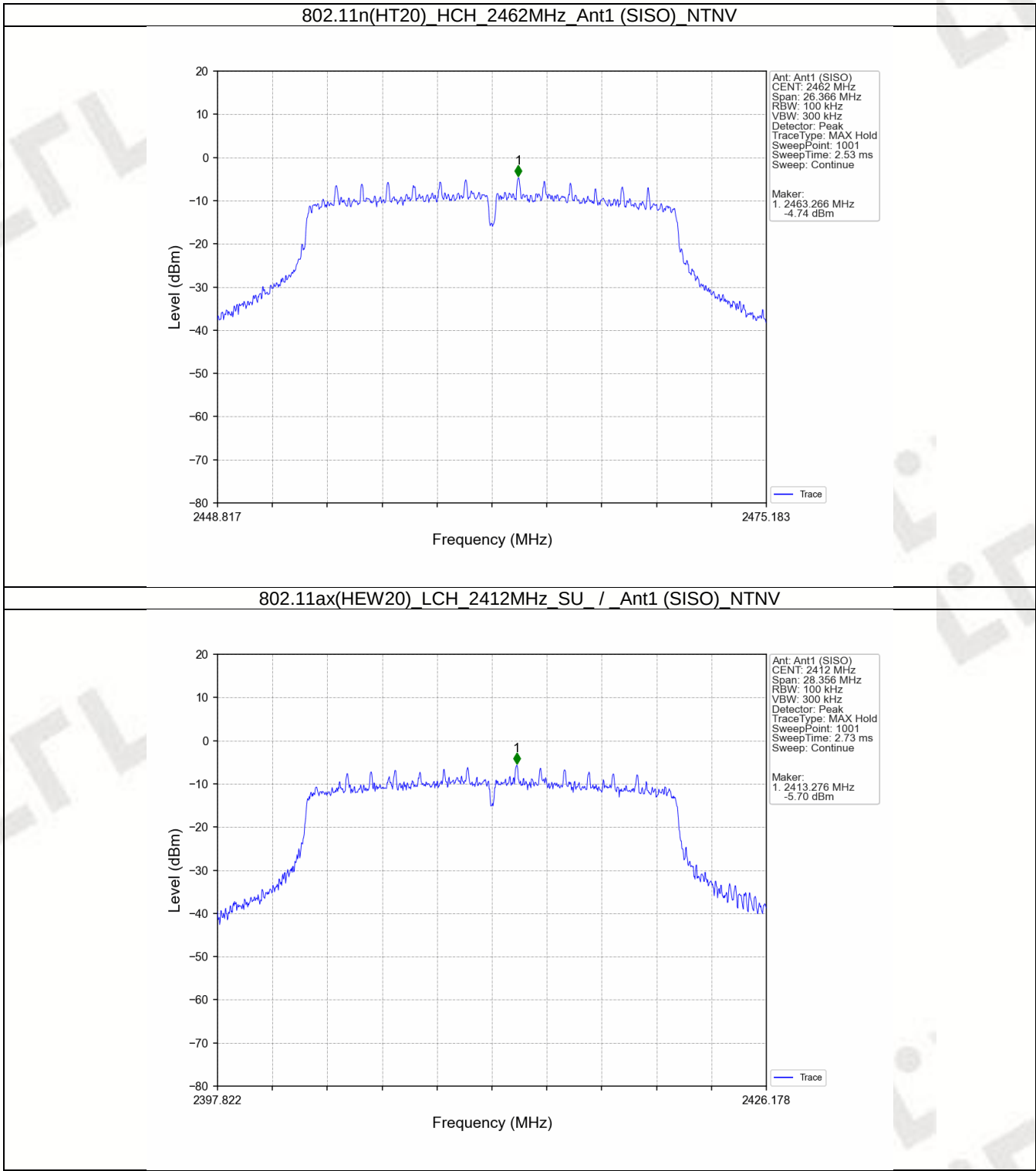
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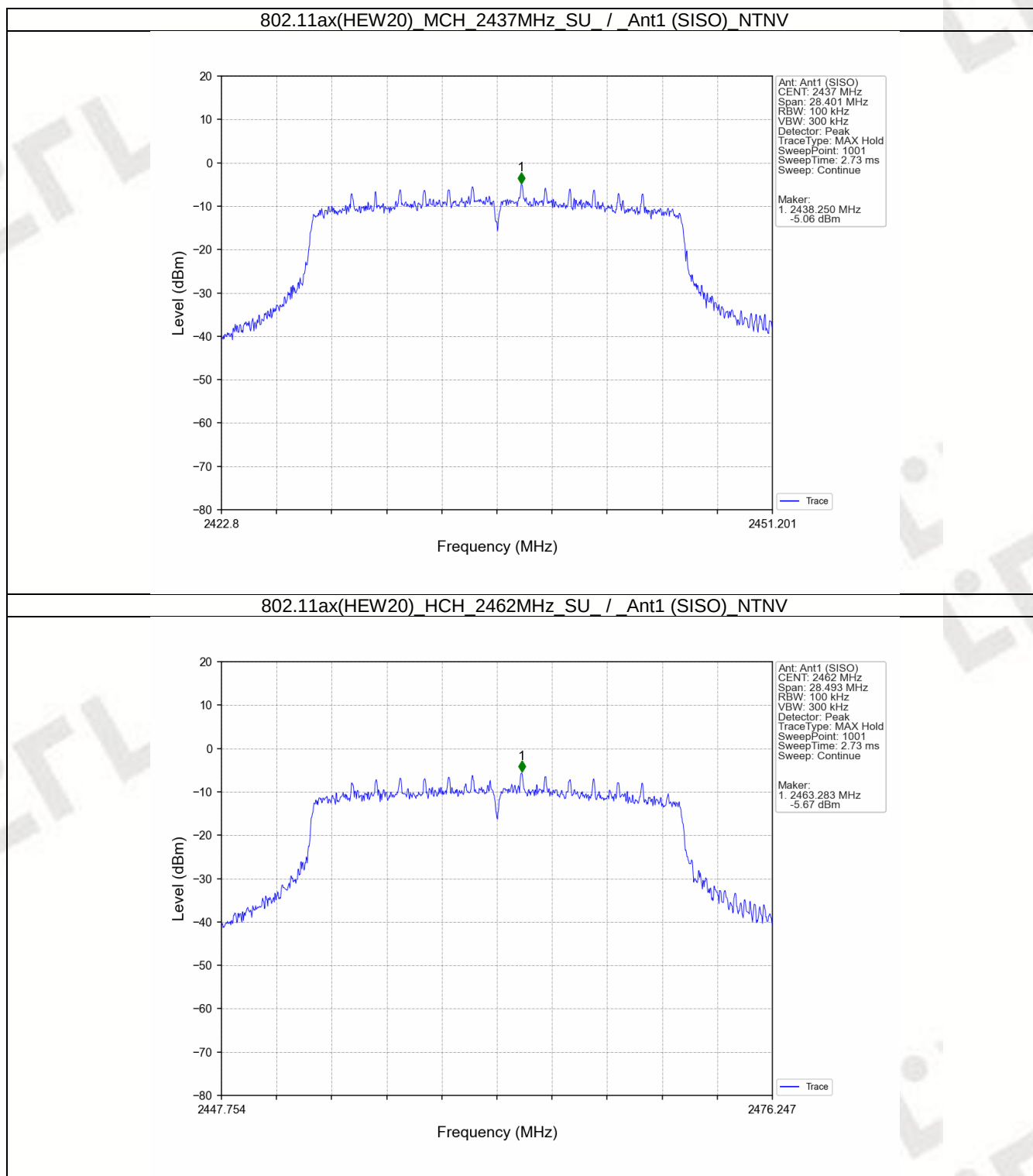
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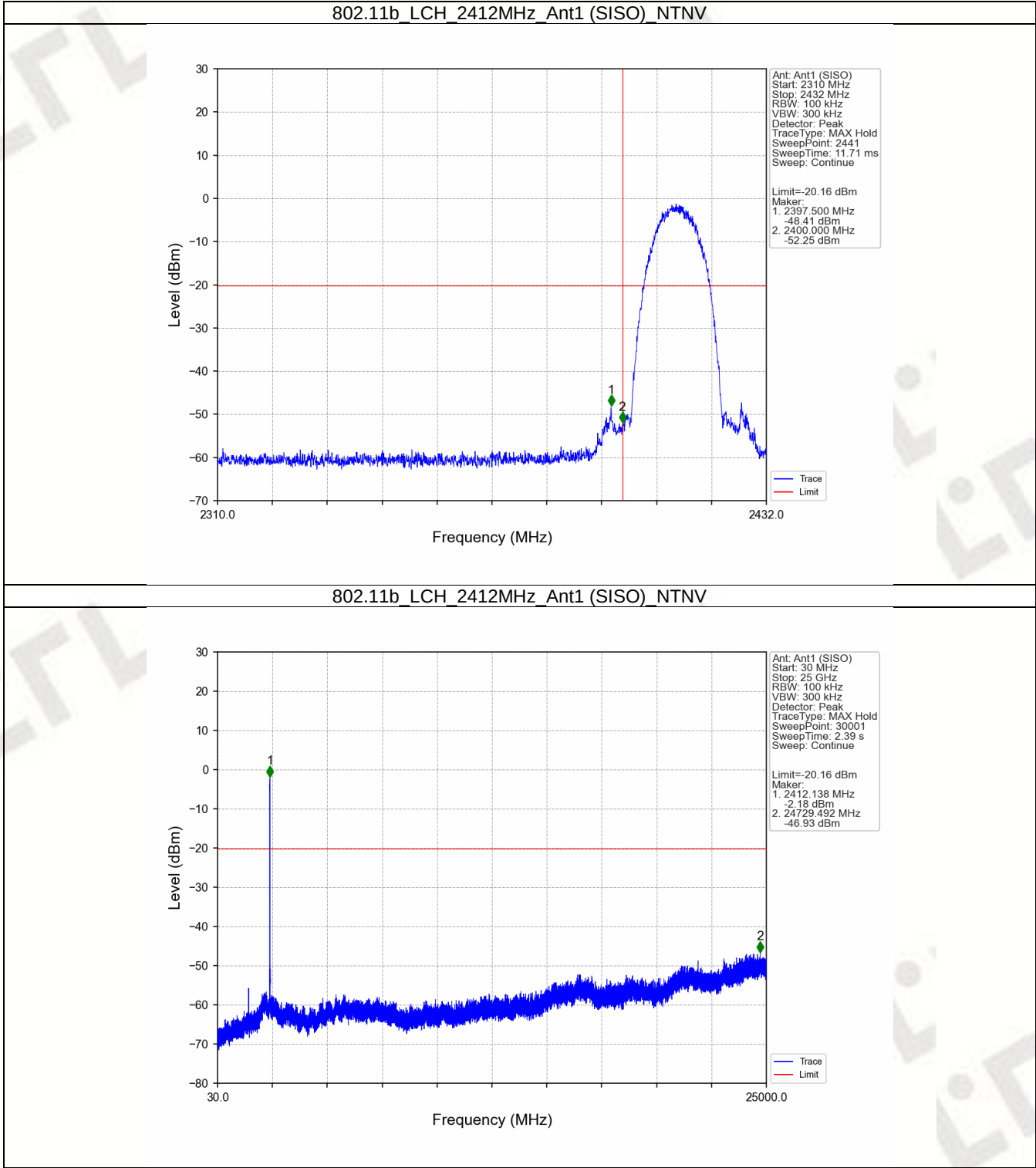


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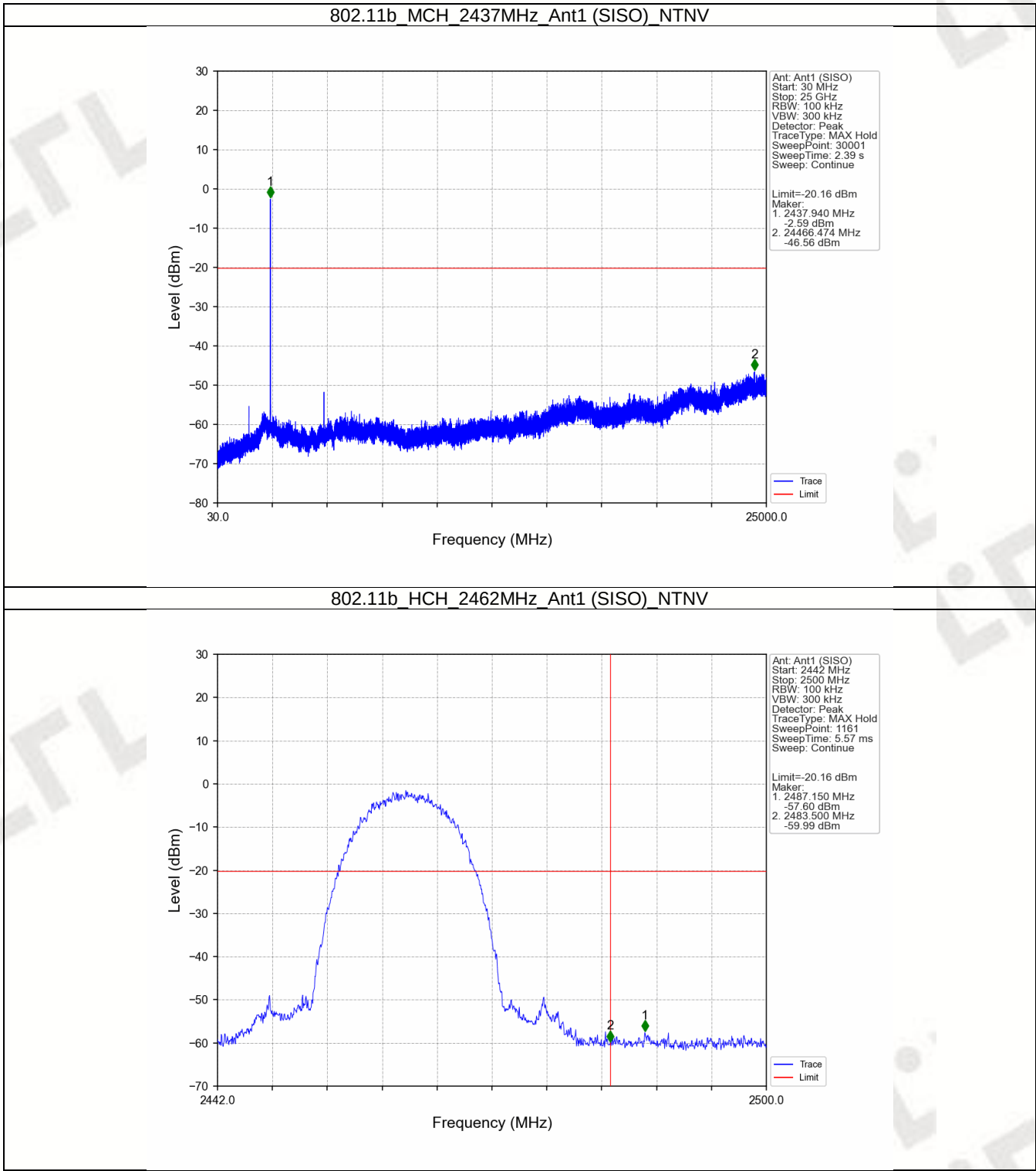


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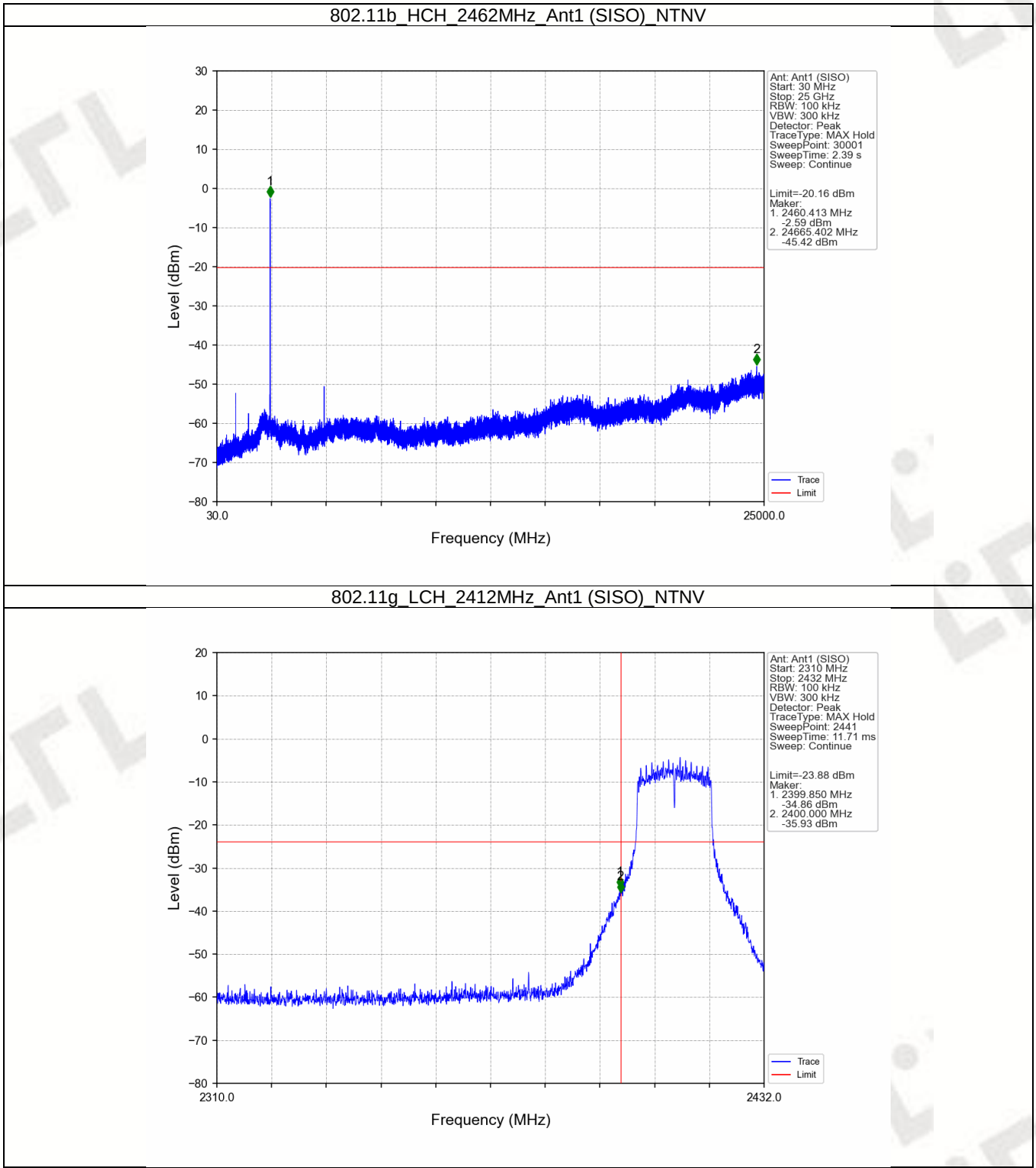
5.2.2 CSE



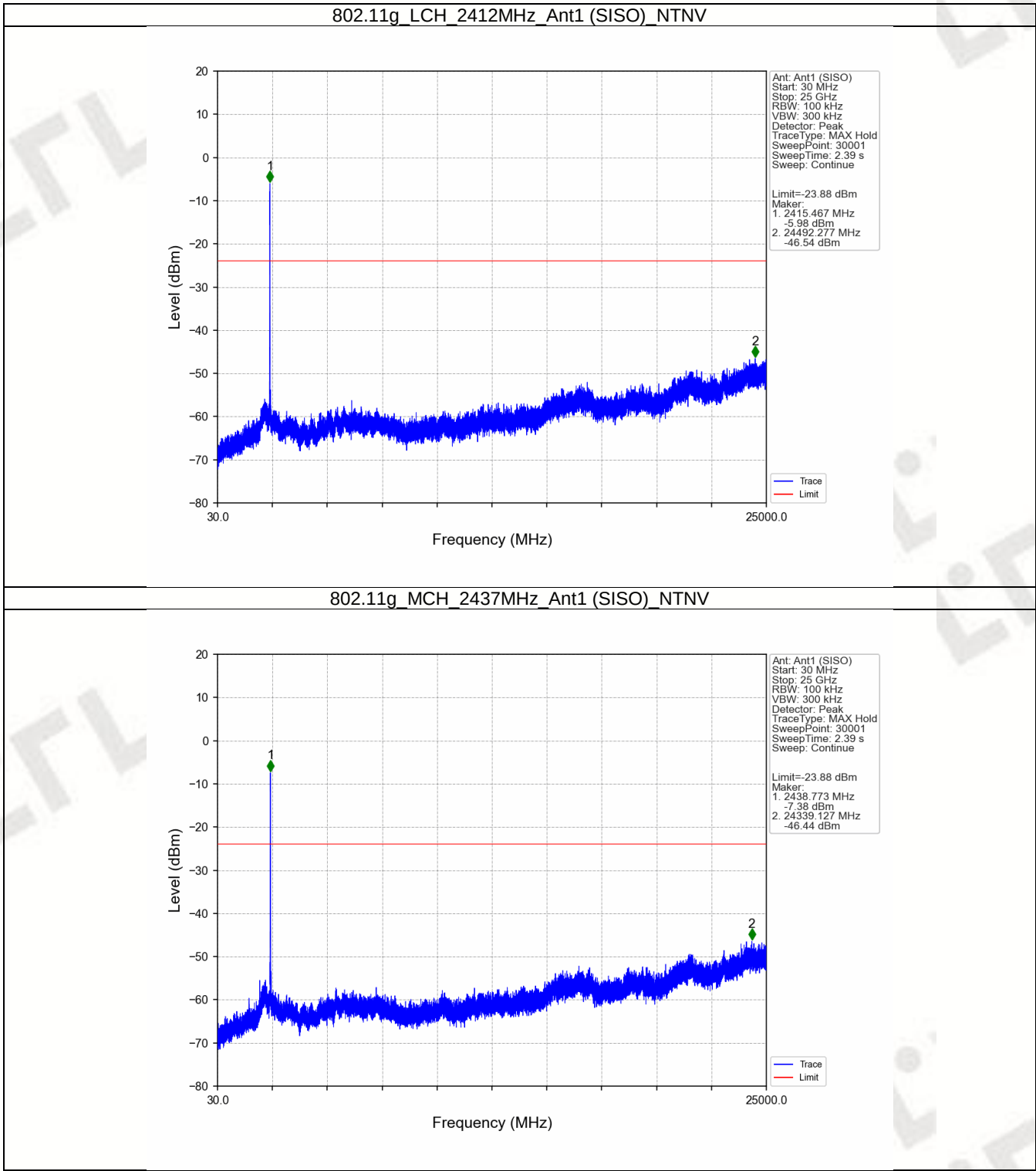
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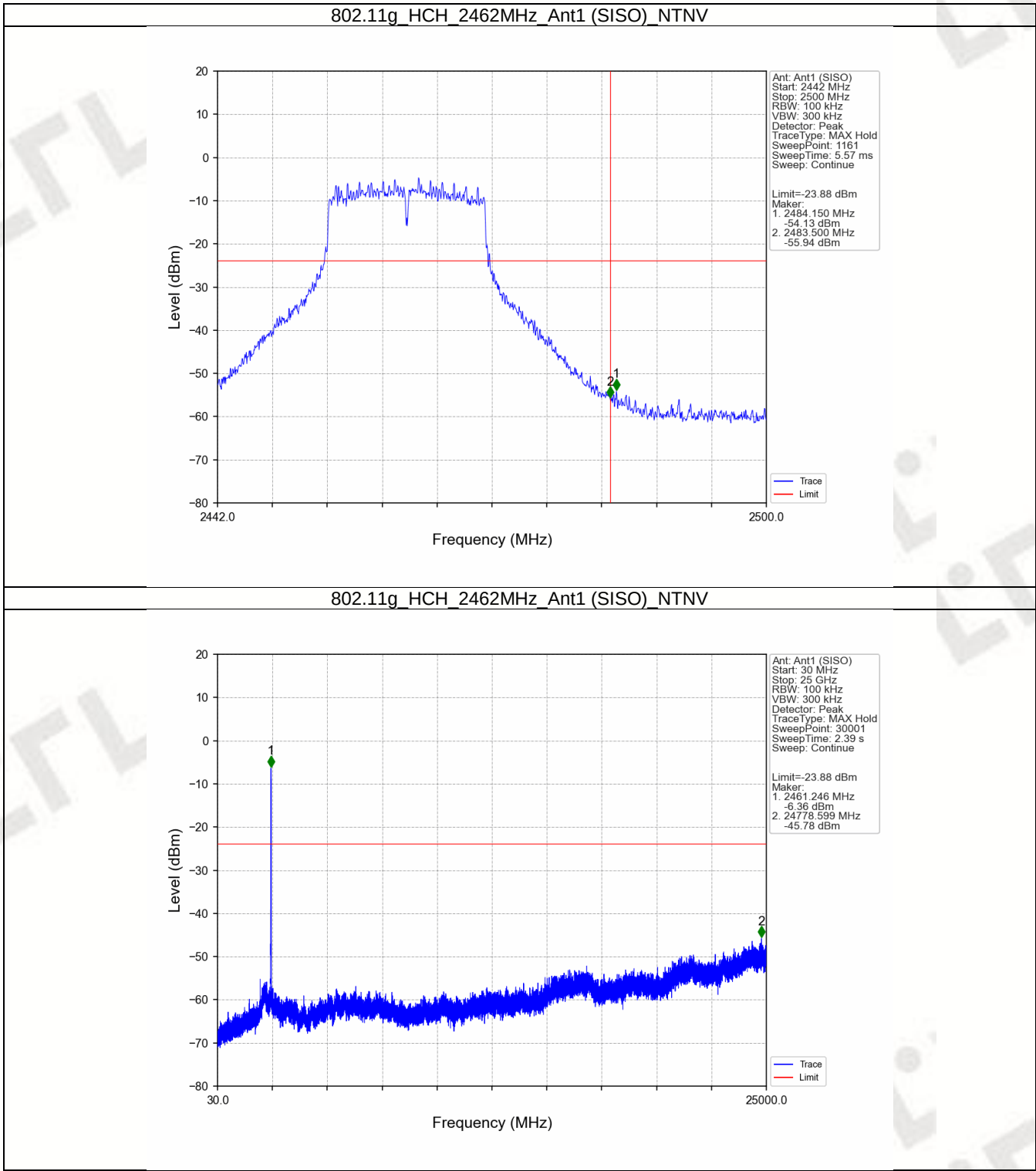
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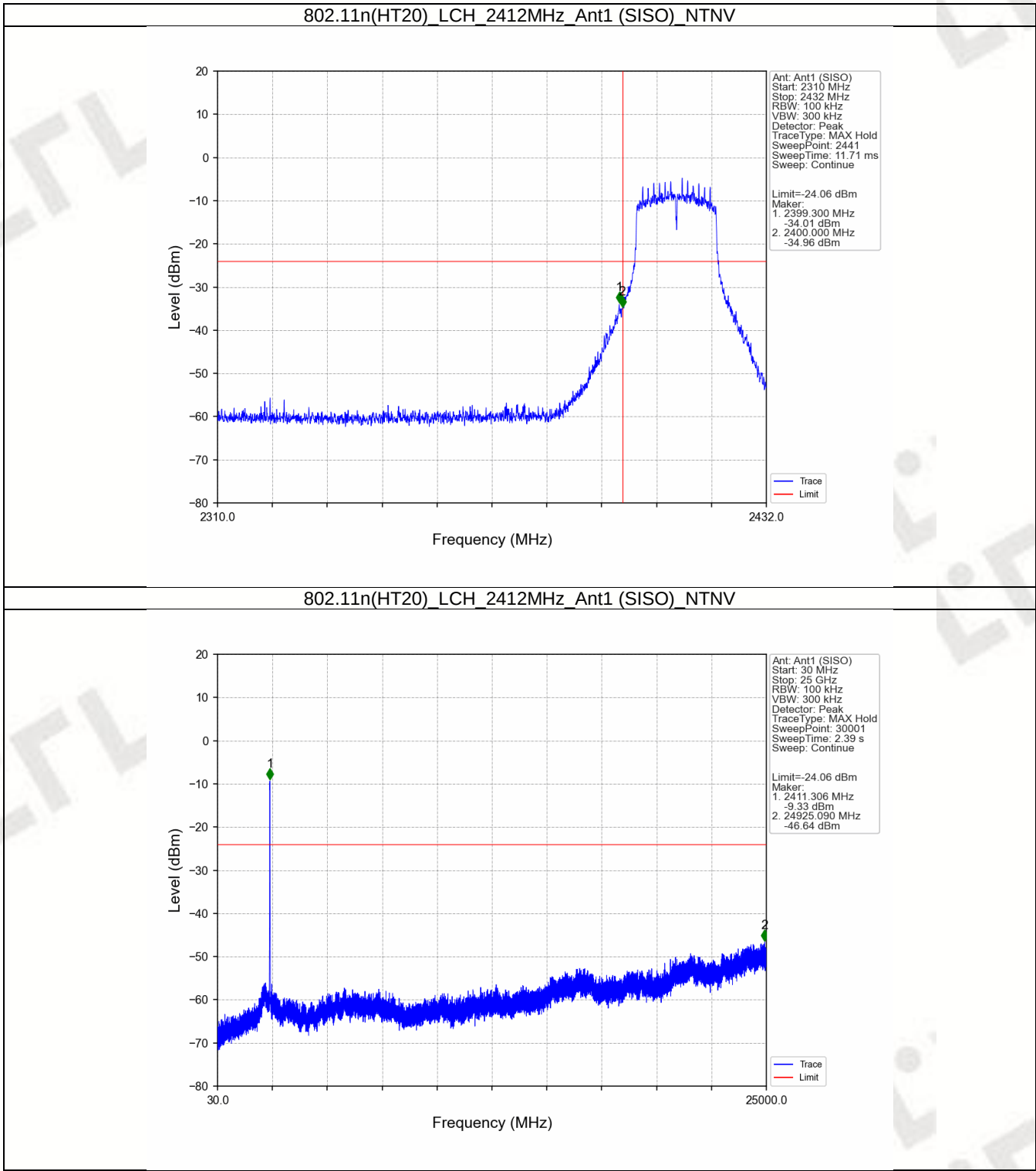
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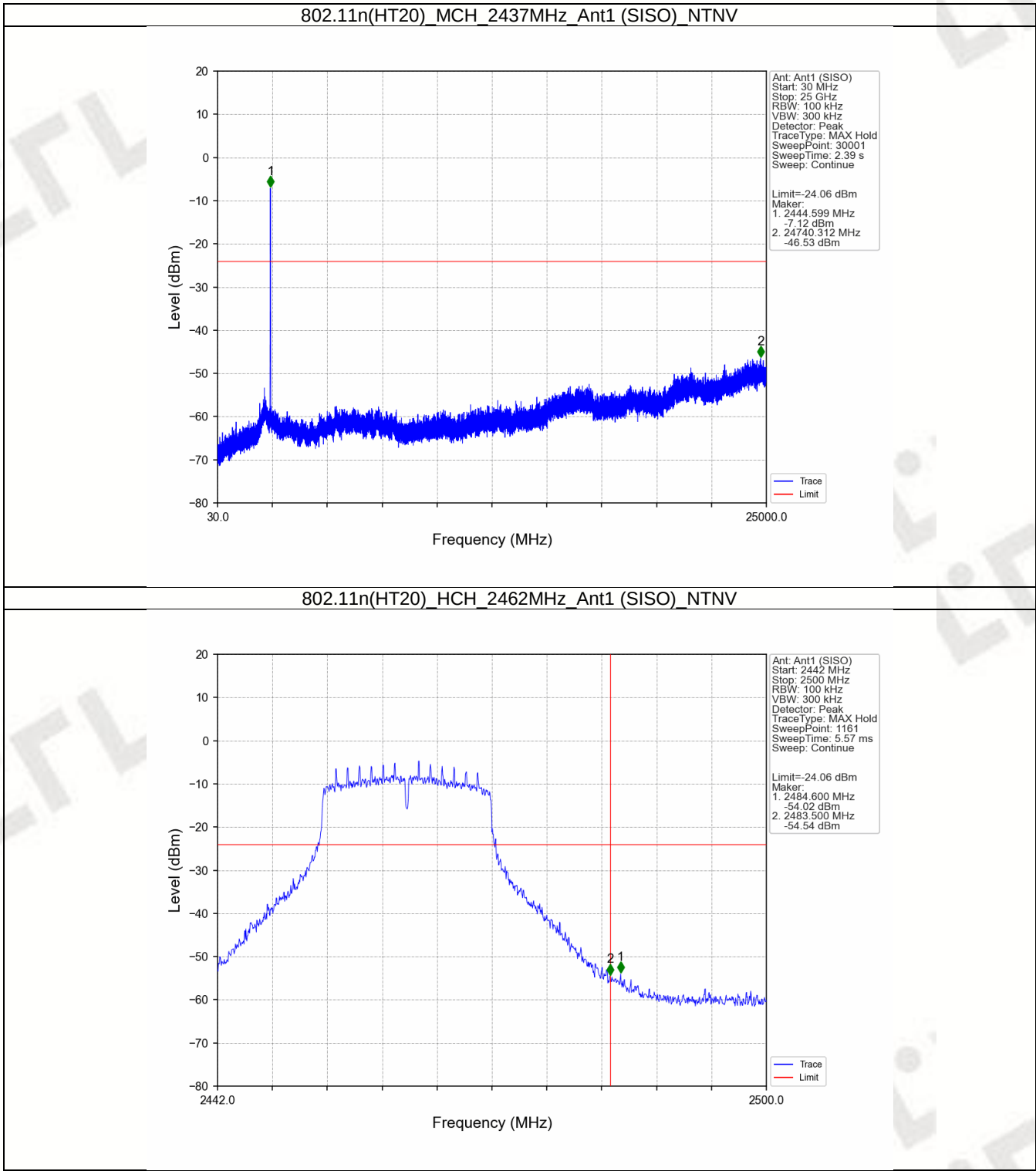
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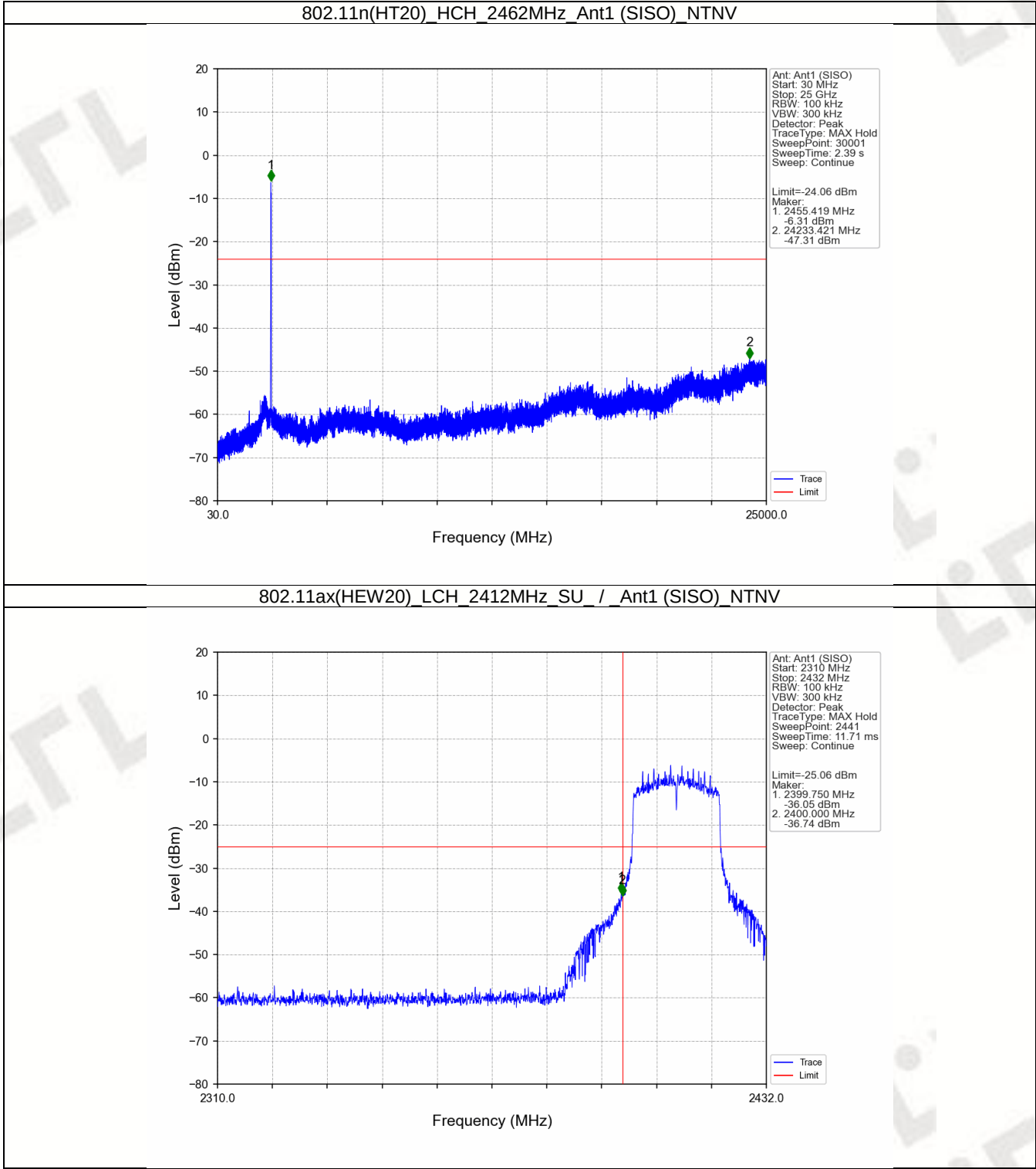
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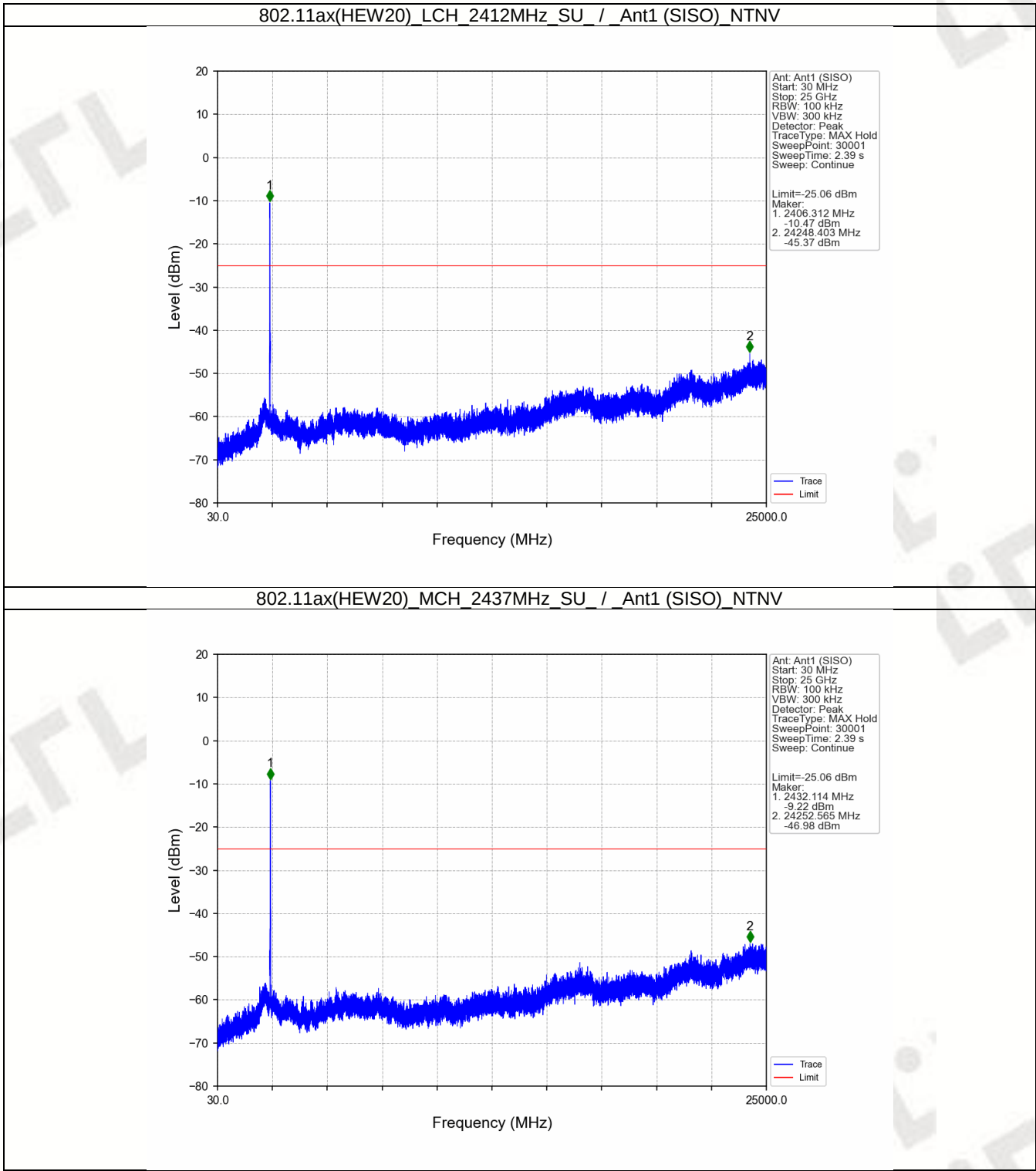
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