

Appendix A for SHEM210800989701

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

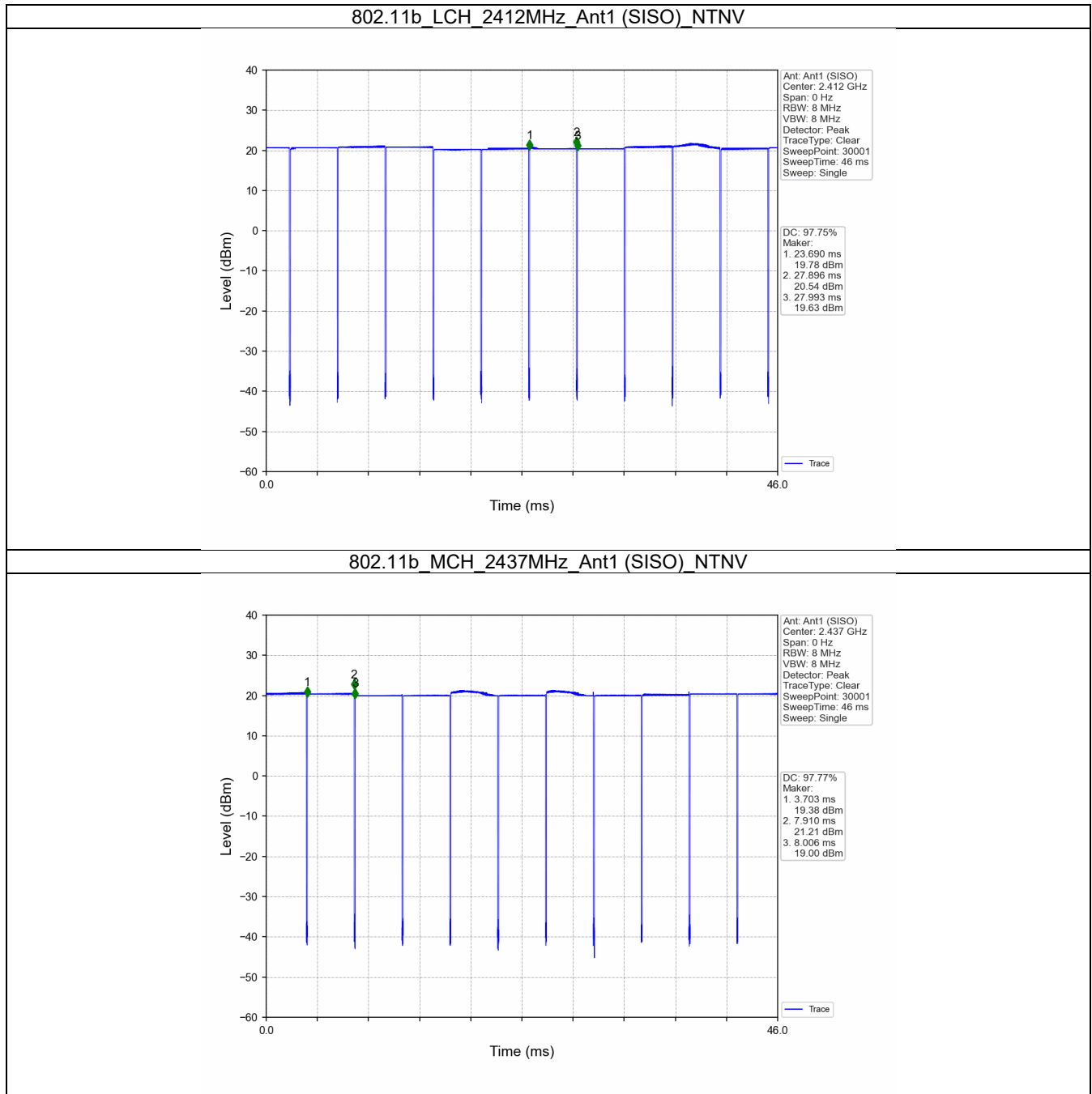
Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	4.206	4.303	97.75	0.10	0.07
		2437	4.207	4.303	97.77	0.10	0.00
		2462	4.206	4.302	97.77	0.10	0.04
802.11g	SISO	2412	0.707	0.807	87.61	0.57	0.03
		2437	0.707	0.807	87.61	0.57	0.03
		2462	0.708	0.808	87.62	0.57	0.03
802.11n (HT20)	MIMO	2412	1.307	1.408	92.83	0.32	0.03
		2437	1.307	1.407	92.89	0.32	0.03
		2462	1.308	1.408	92.90	0.32	0.03



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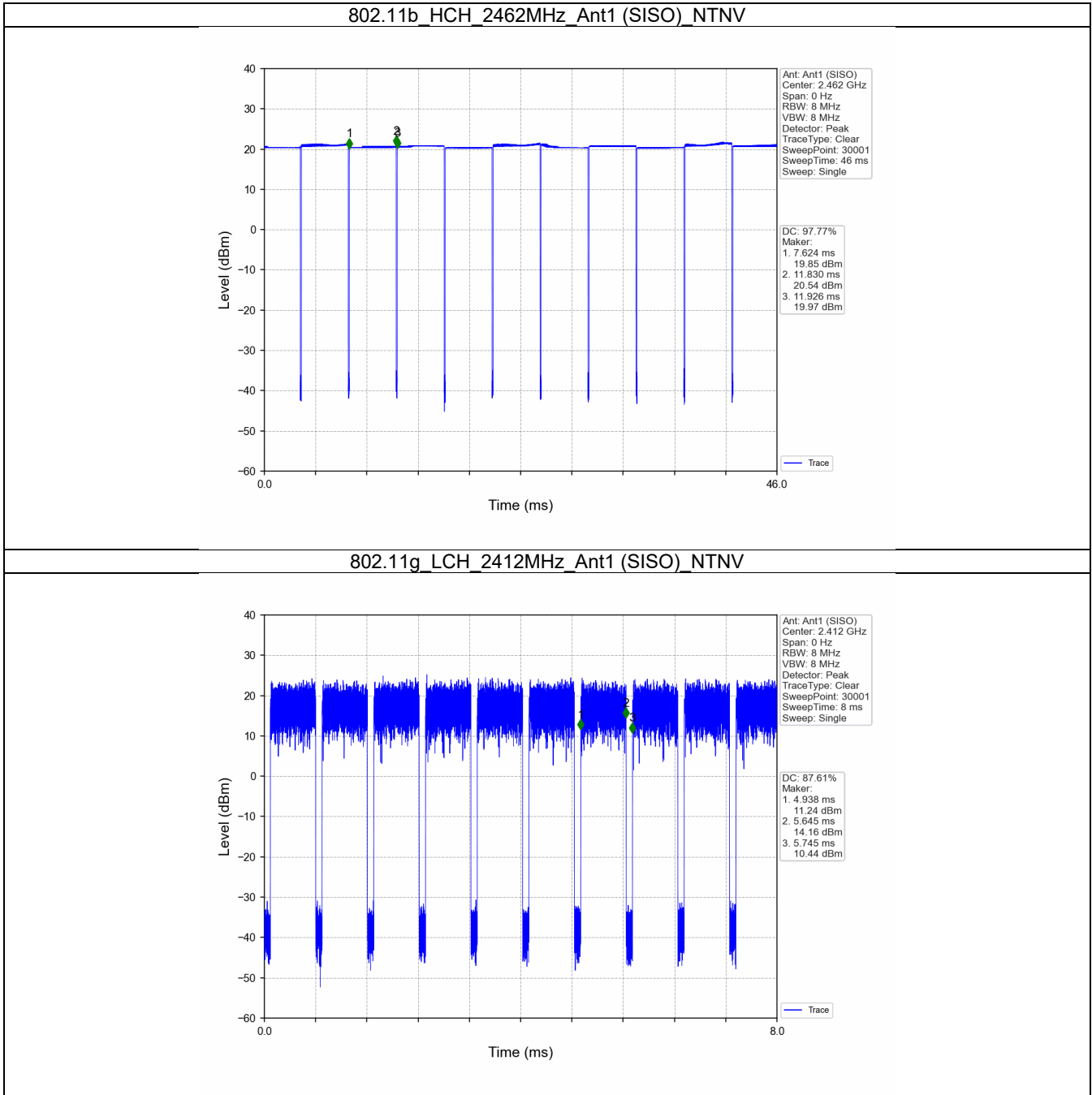
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1.1.2 Test Graph



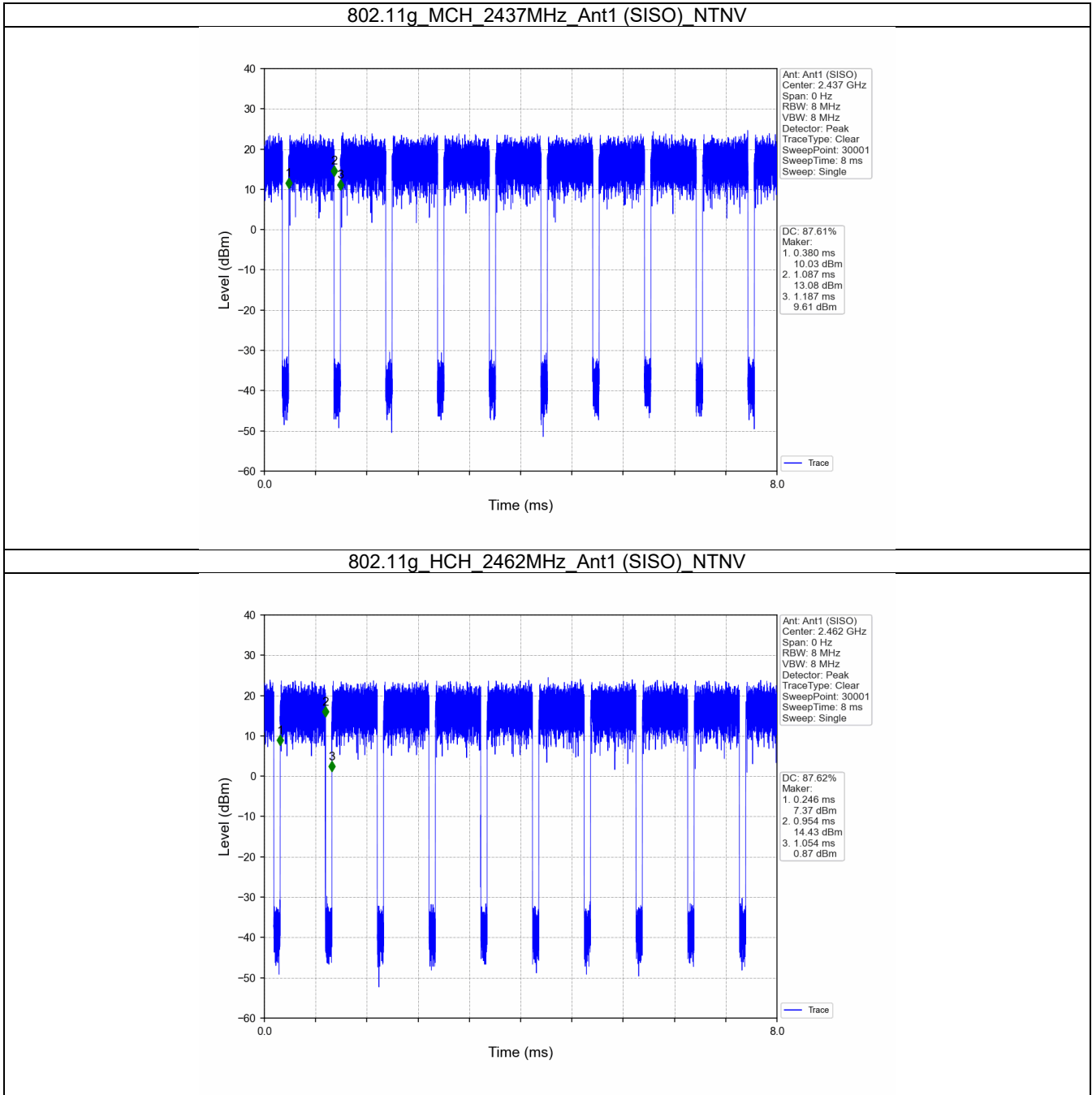
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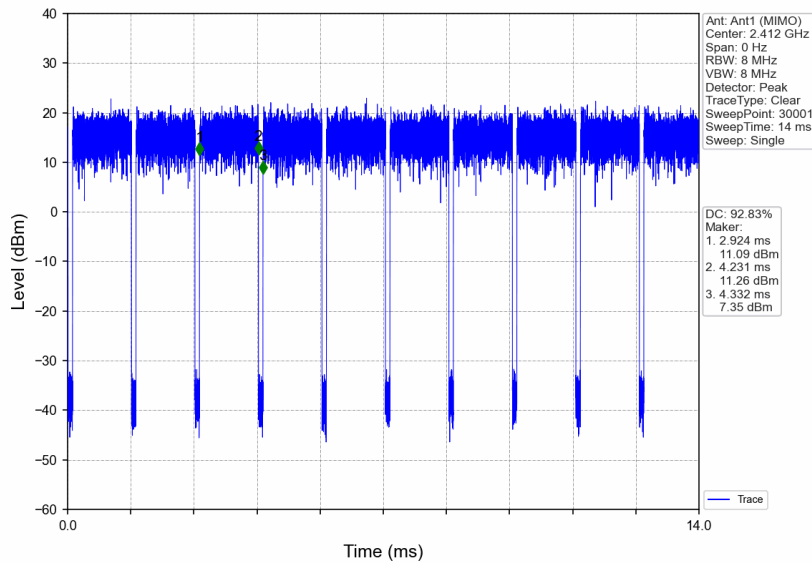
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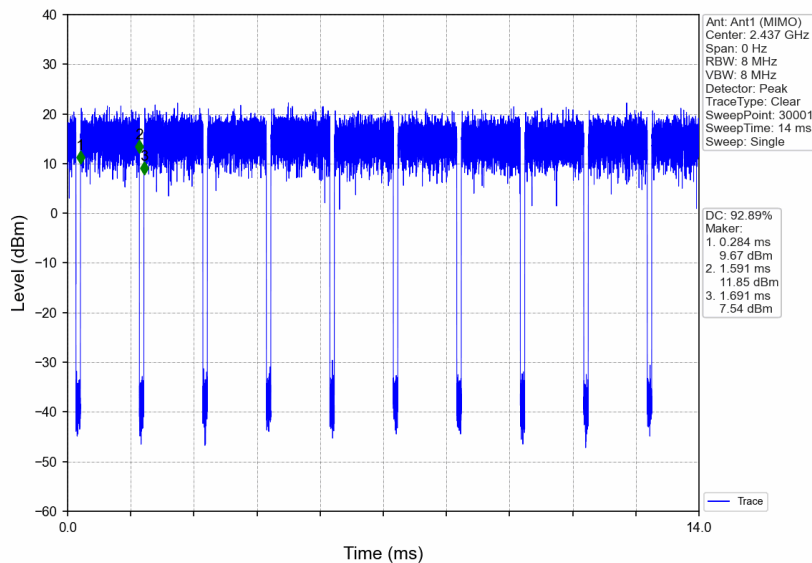
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO) NTNV



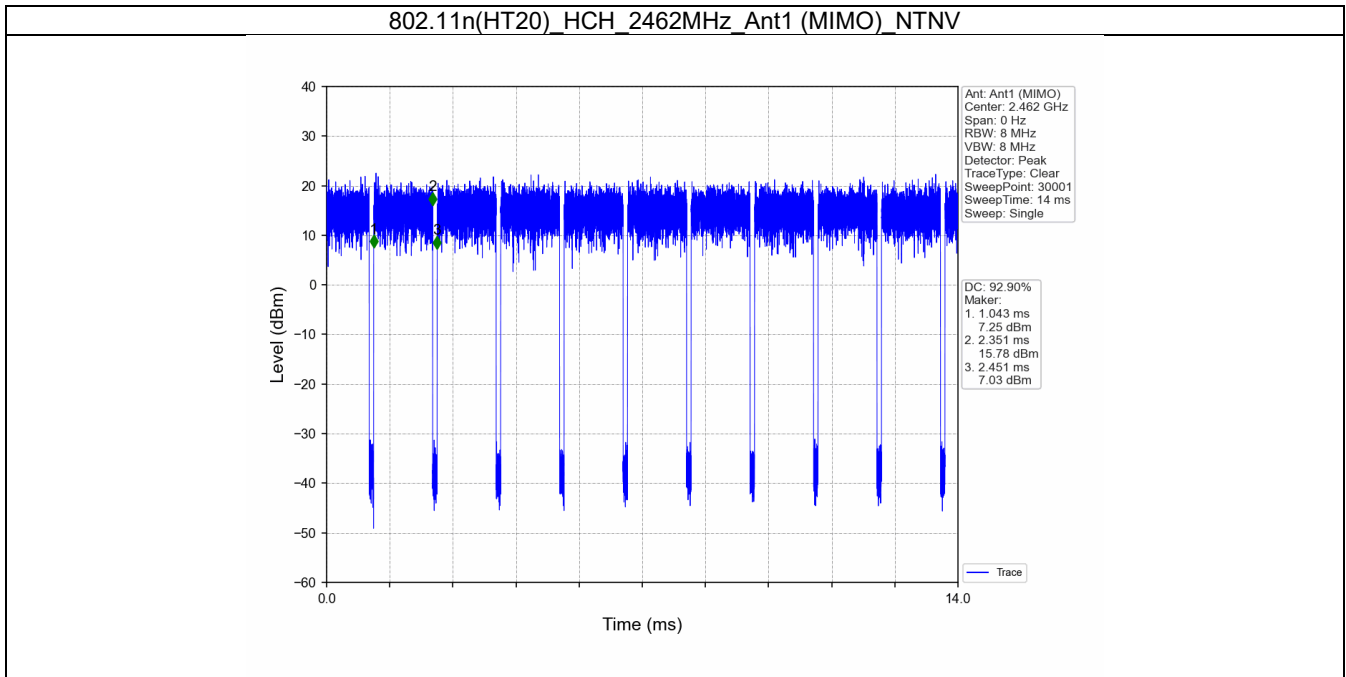
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Testing Center Eltham Road, Songjiang District, Shanghai, China 201612

NO. 588 West Jindu Road, Songjiang District, Shanghai, China 201612
中国·上海·松江区金都西路588号 邮编: 201612

t(86-21)61915666 f(86-21)61915678 www.sgs.com.cn
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

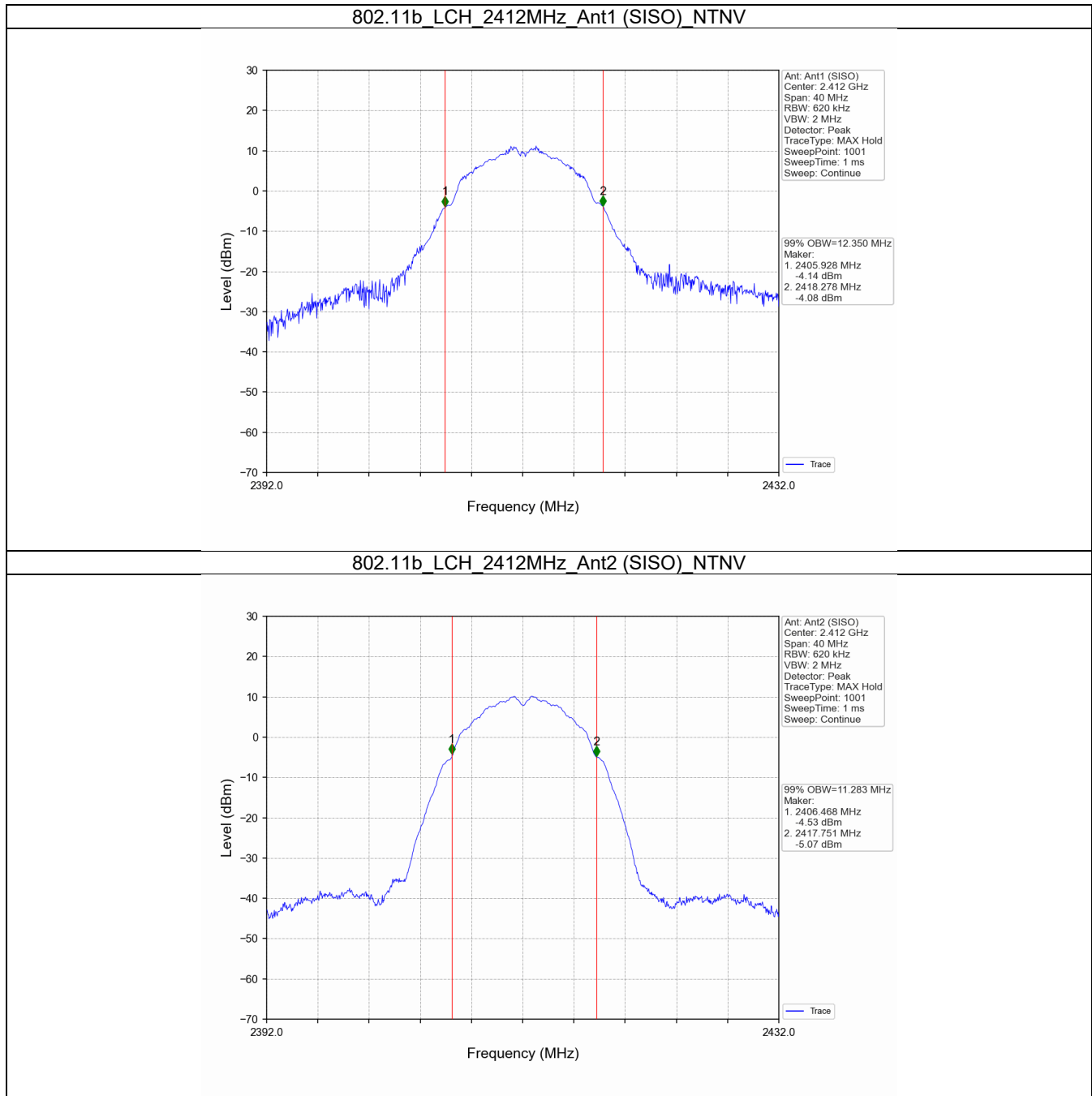
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	12.350	Pass
			2	11.283	Pass
		2437	1	12.308	Pass
			2	11.274	Pass
		2462	1	12.315	Pass
			2	11.308	Pass
802.11g	SISO	2412	1	17.790	Pass
			2	17.812	Pass
		2437	1	17.845	Pass
			2	17.780	Pass
		2462	1	17.819	Pass
			2	17.791	Pass
802.11n (HT20)	MIMO	2412	1	18.917	Pass
			2	18.884	Pass
		2437	1	18.930	Pass
			2	18.927	Pass
		2462	1	18.962	Pass
			2	18.920	Pass



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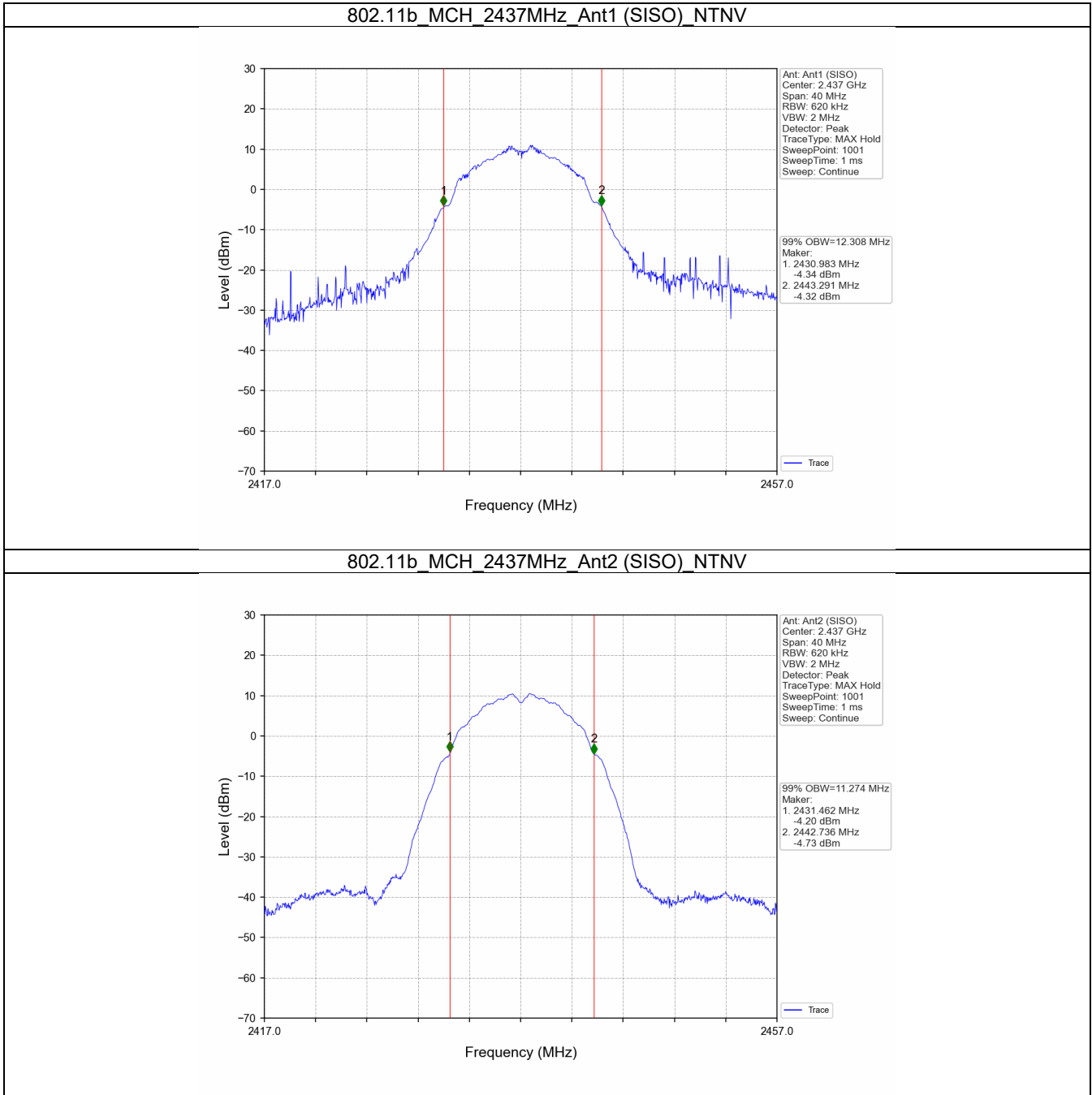
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2.1.2 Test Graph



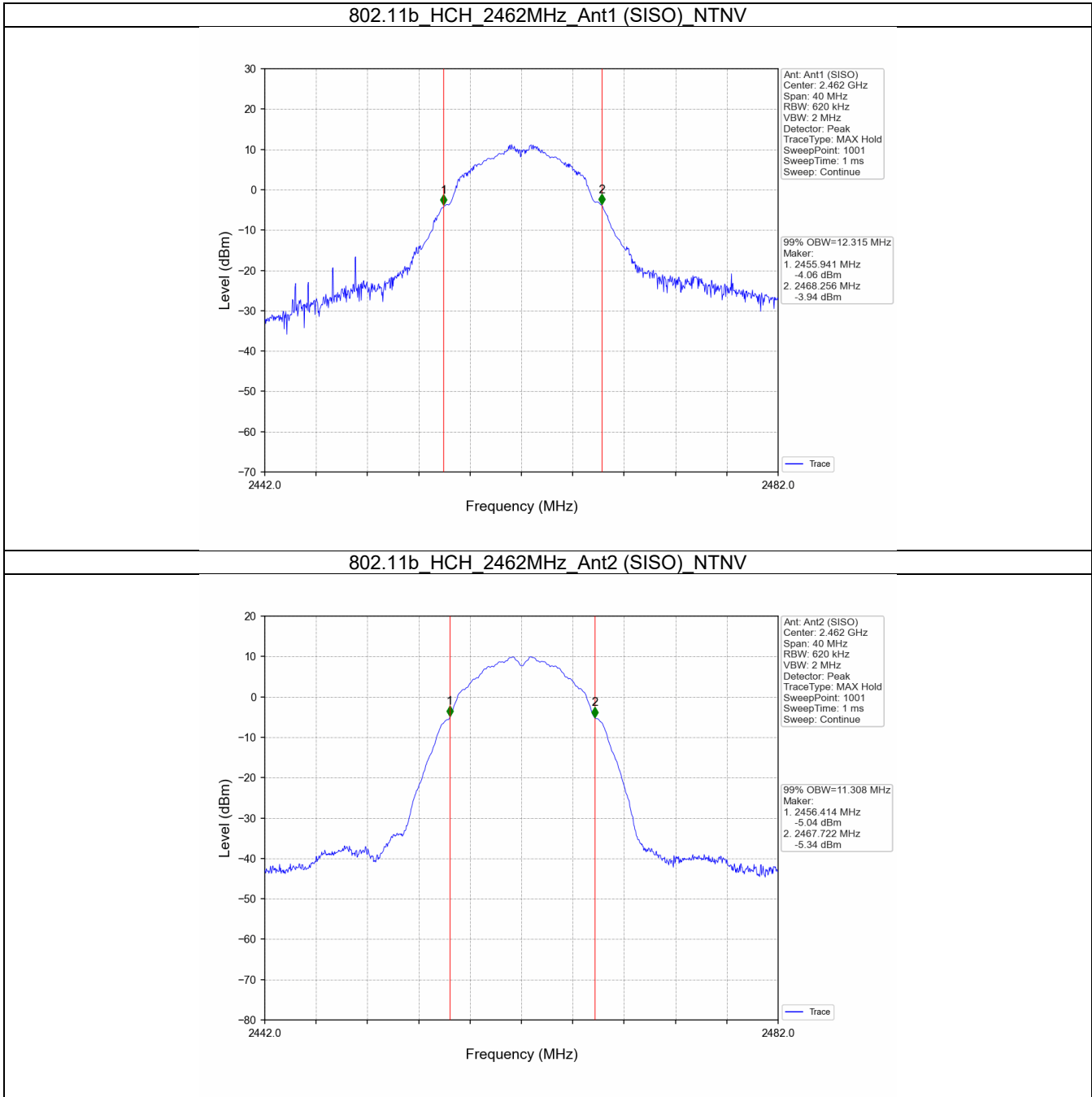
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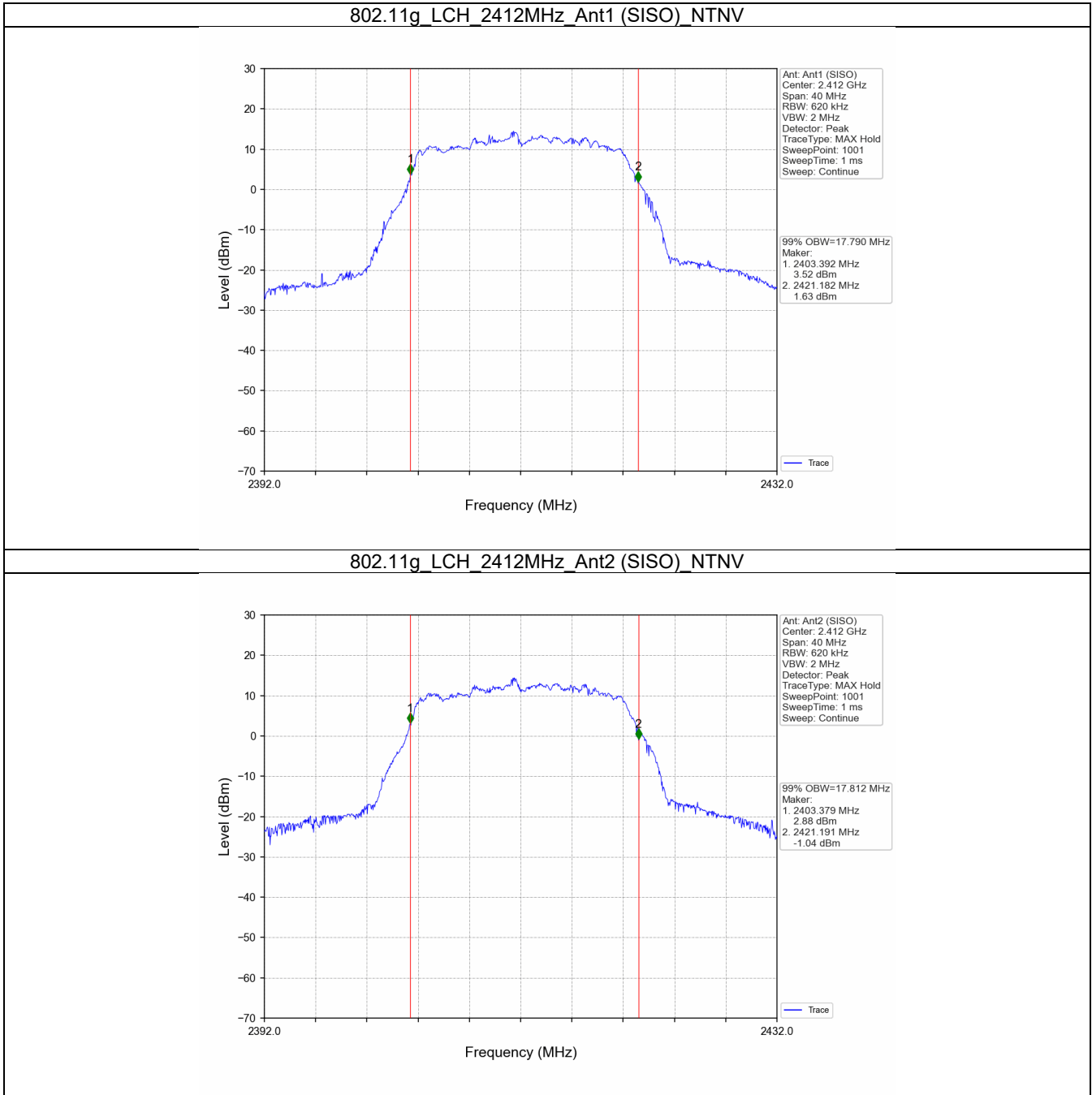
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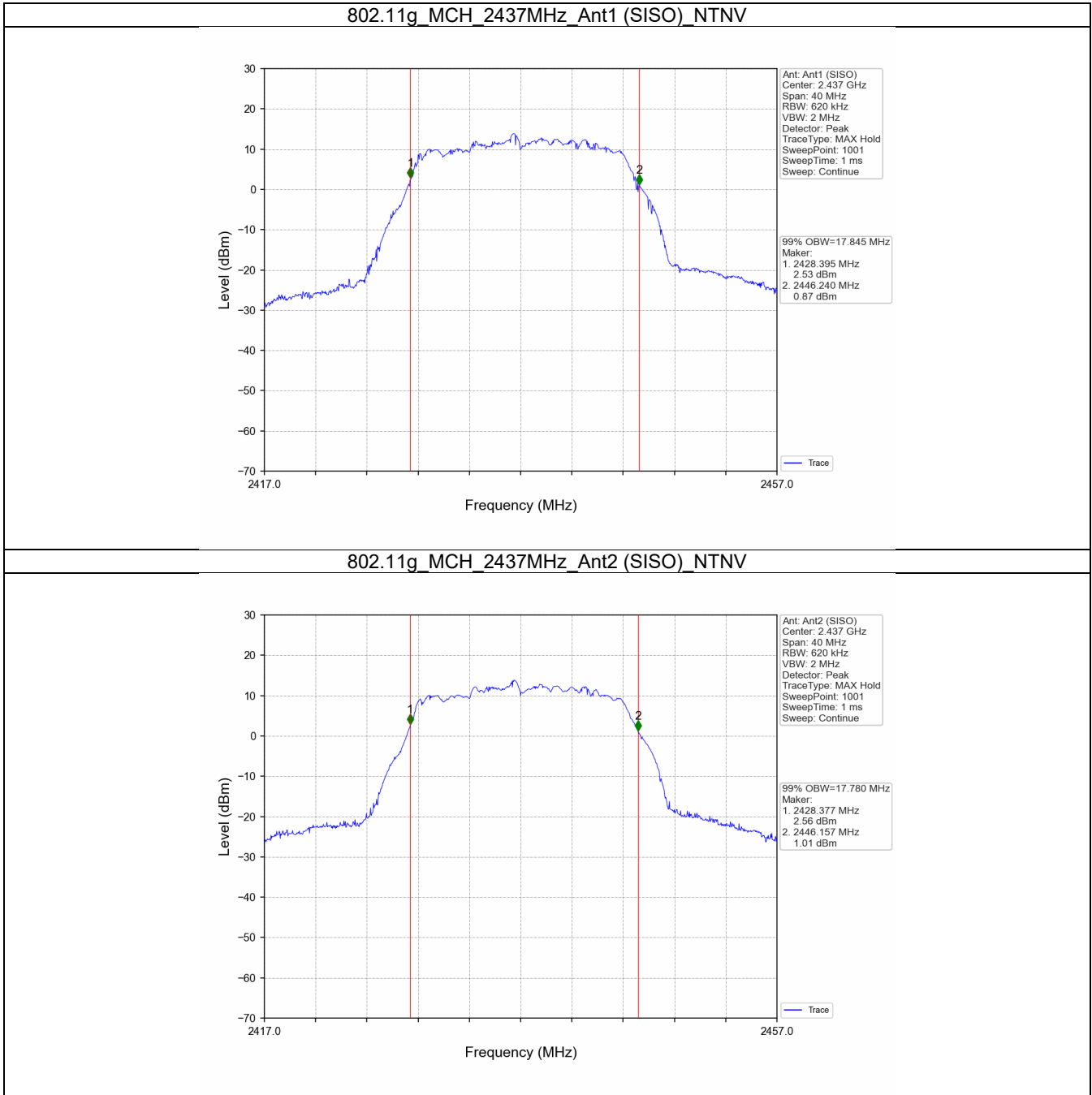
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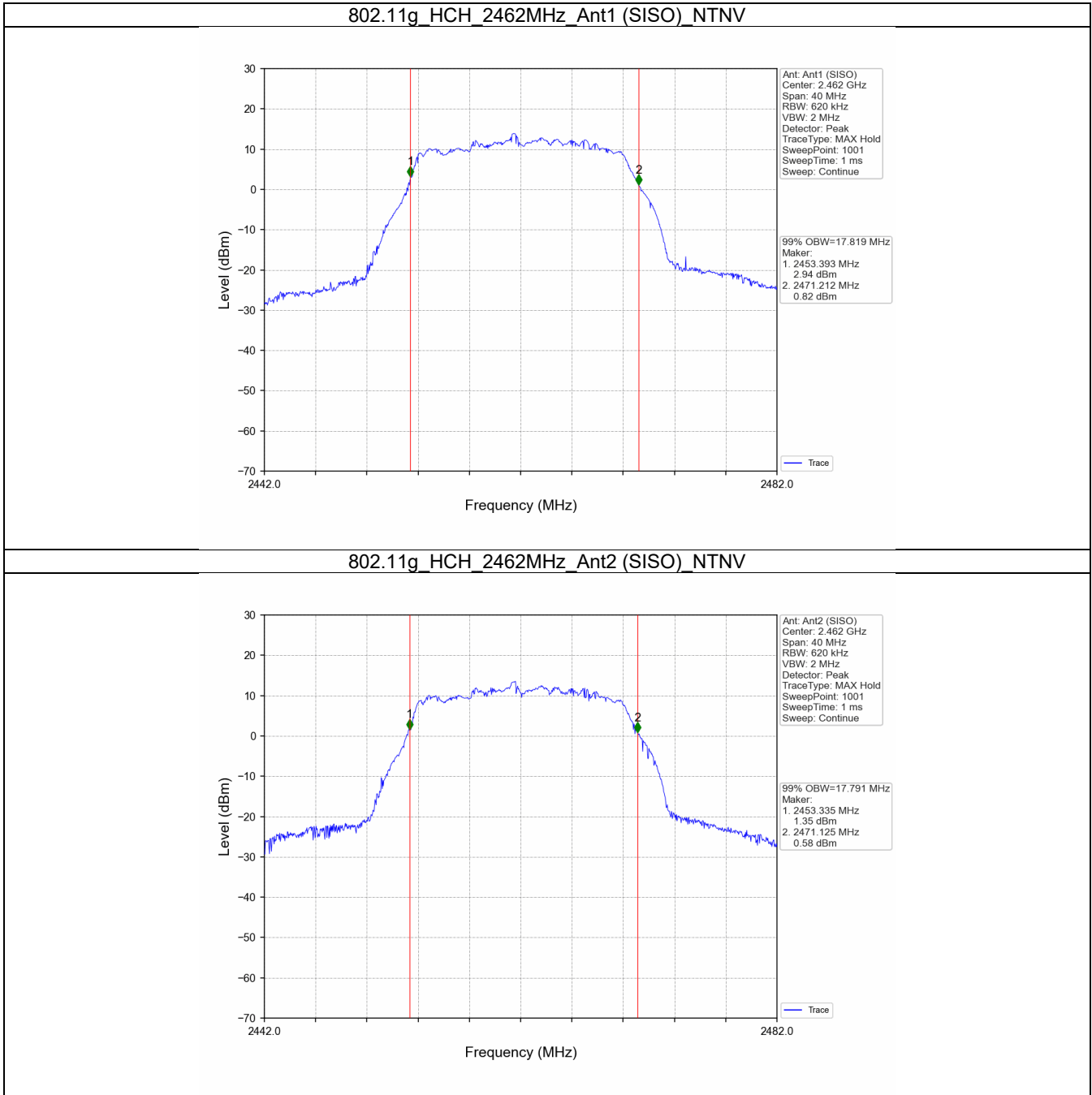
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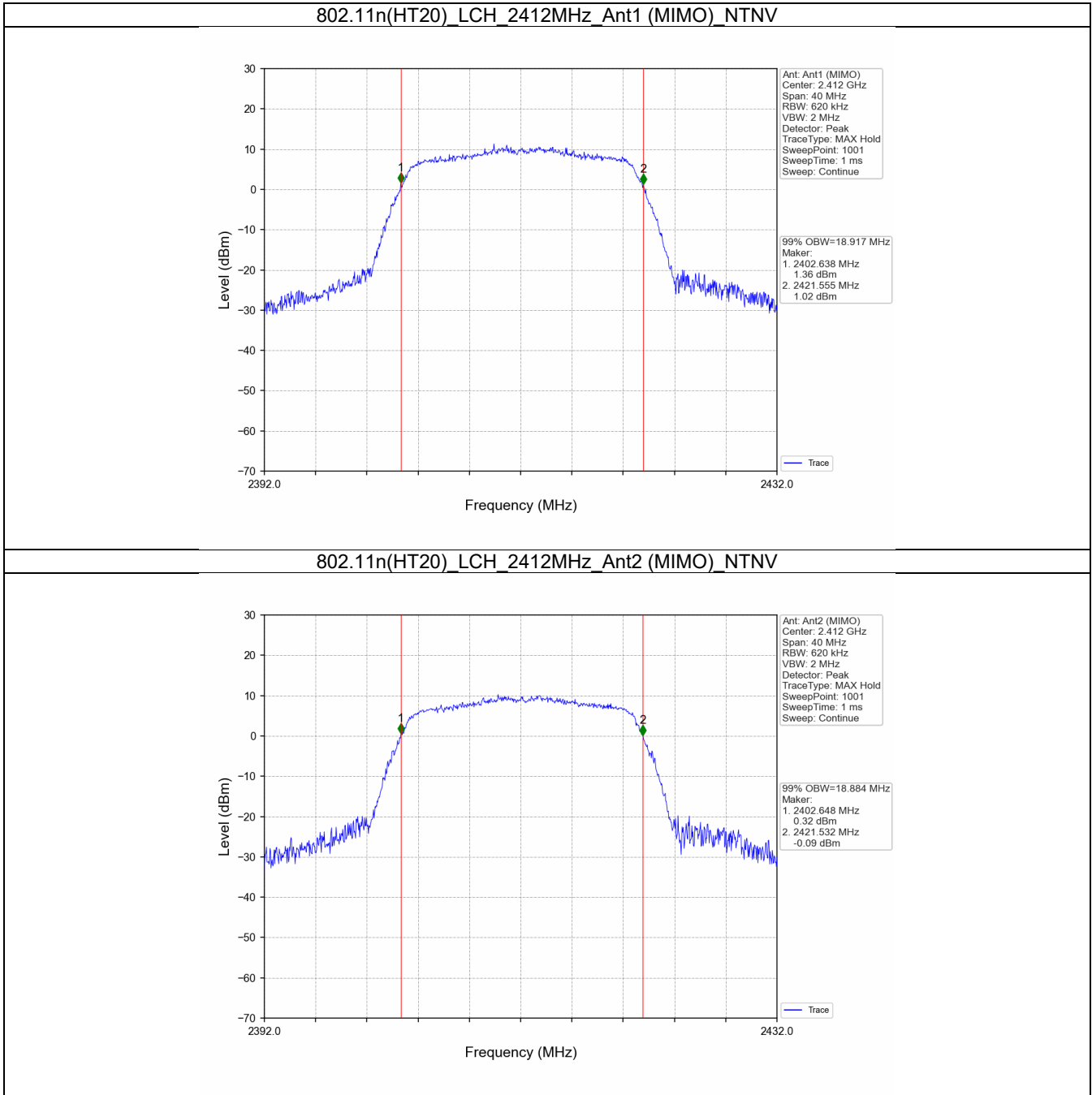
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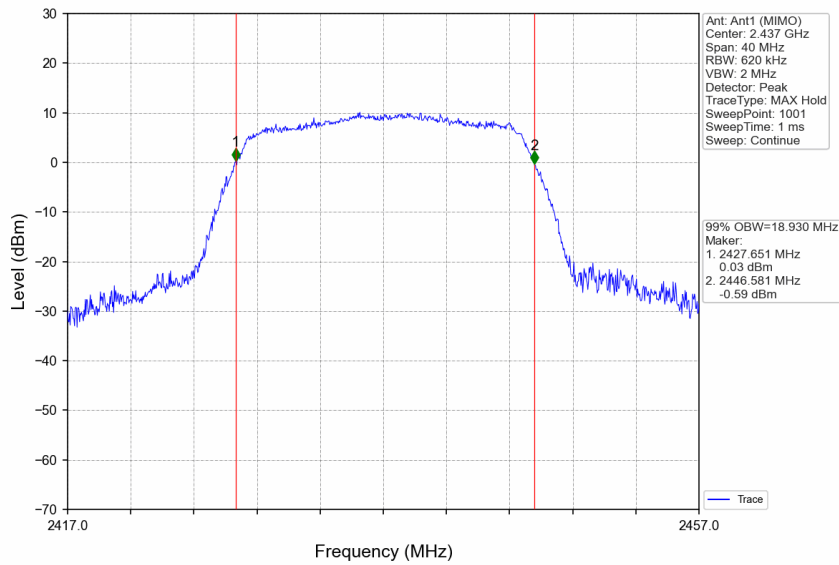
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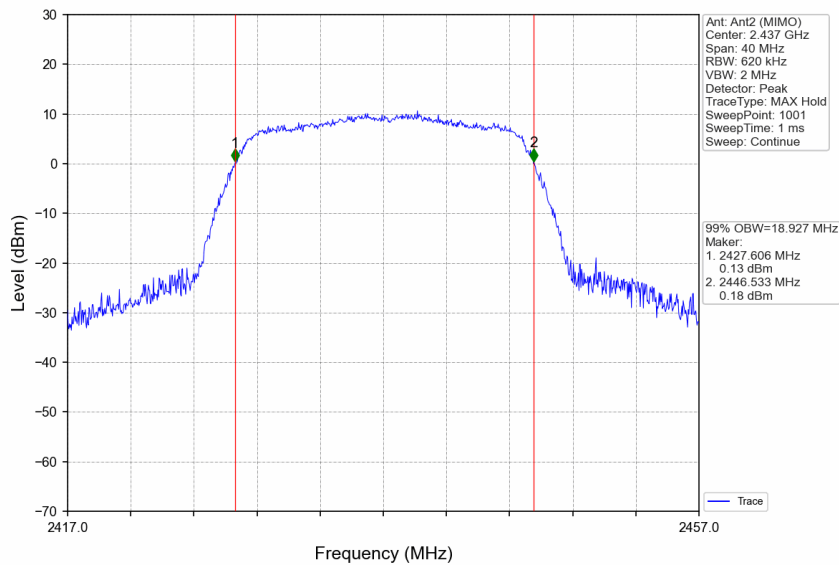
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



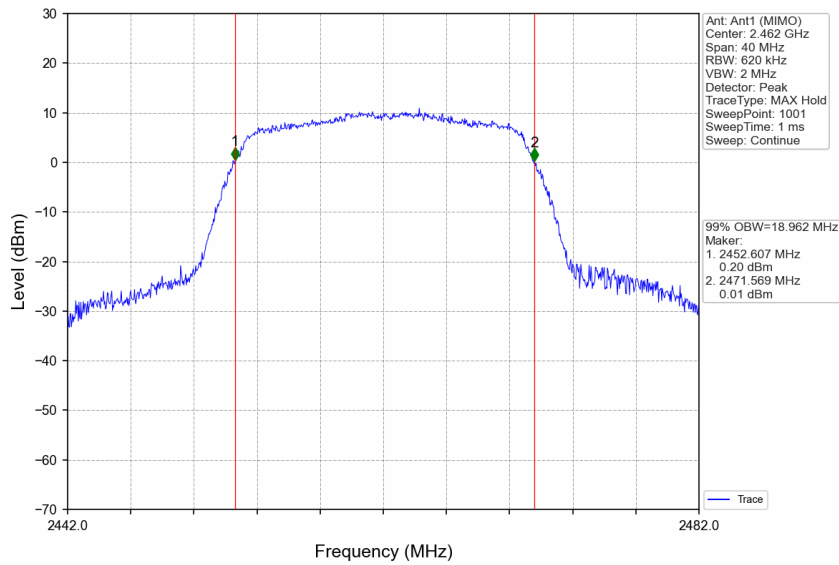
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



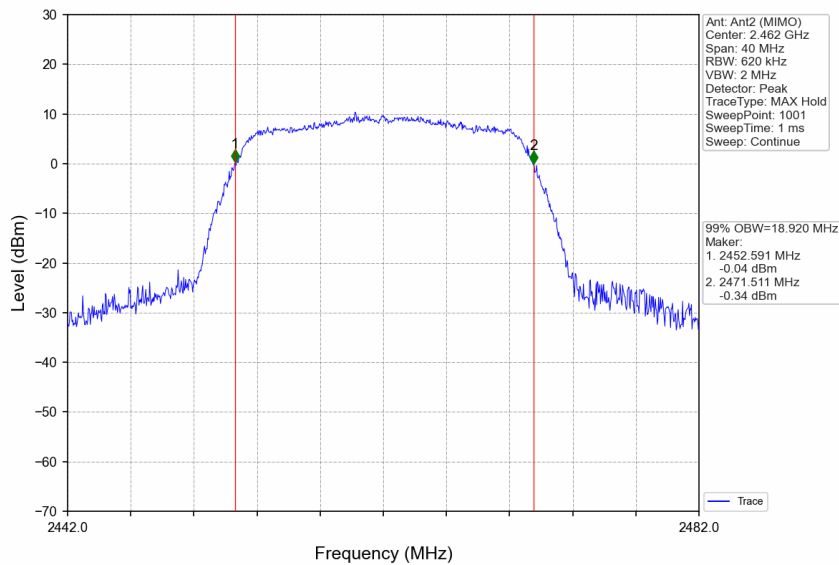
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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2.2 6dB BW

2.2.1 Test Result

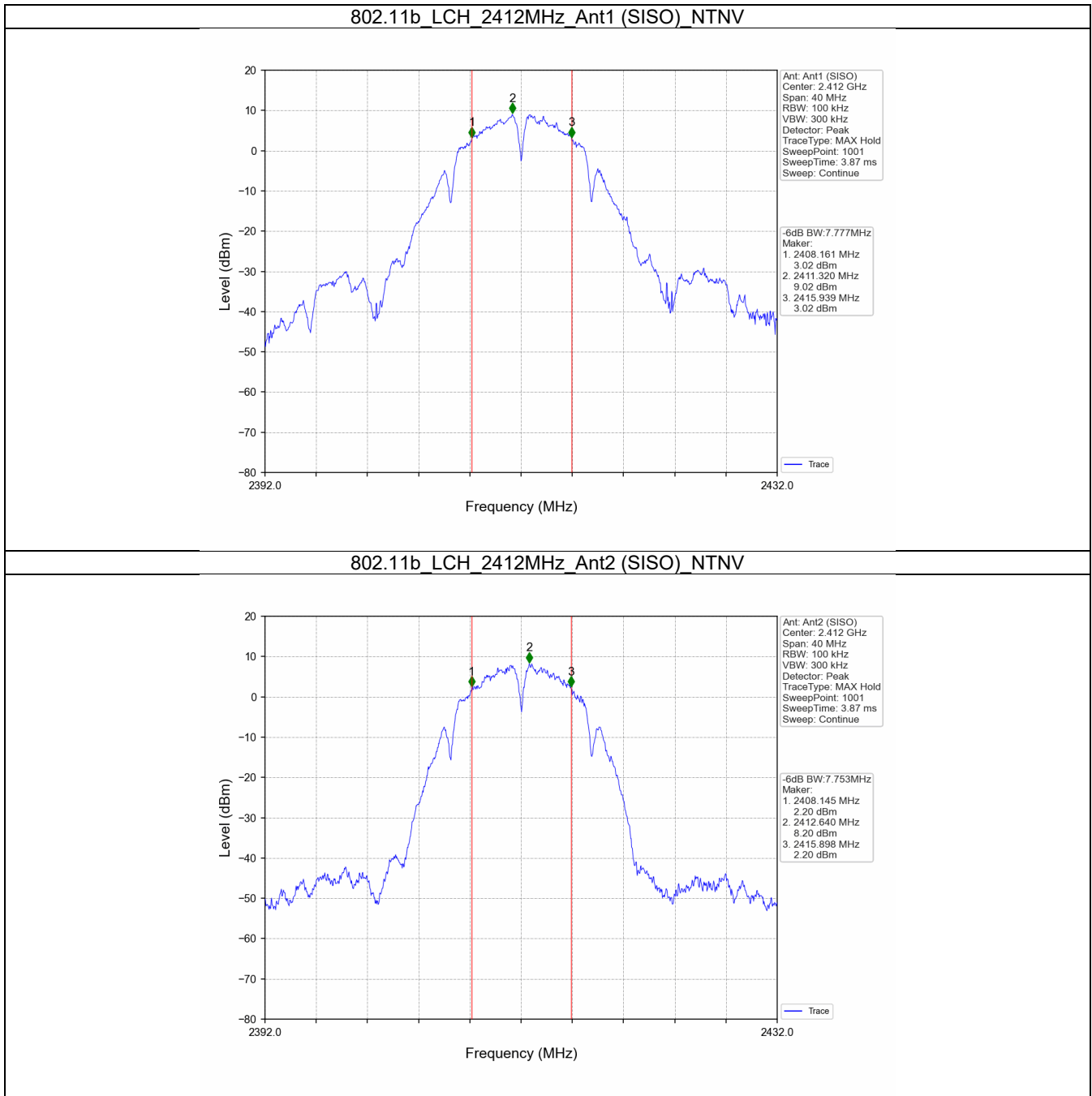
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.777	>=0.5	Pass
			2	7.753	>=0.5	Pass
		2437	1	8.000	>=0.5	Pass
			2	7.776	>=0.5	Pass
		2462	1	7.907	>=0.5	Pass
			2	7.458	>=0.5	Pass
802.11g	SISO	2412	1	16.443	>=0.5	Pass
			2	16.423	>=0.5	Pass
		2437	1	16.442	>=0.5	Pass
			2	16.449	>=0.5	Pass
		2462	1	16.455	>=0.5	Pass
			2	16.451	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.610	>=0.5	Pass
			2	17.623	>=0.5	Pass
		2437	1	17.607	>=0.5	Pass
			2	17.614	>=0.5	Pass
		2462	1	17.609	>=0.5	Pass
			2	17.616	>=0.5	Pass



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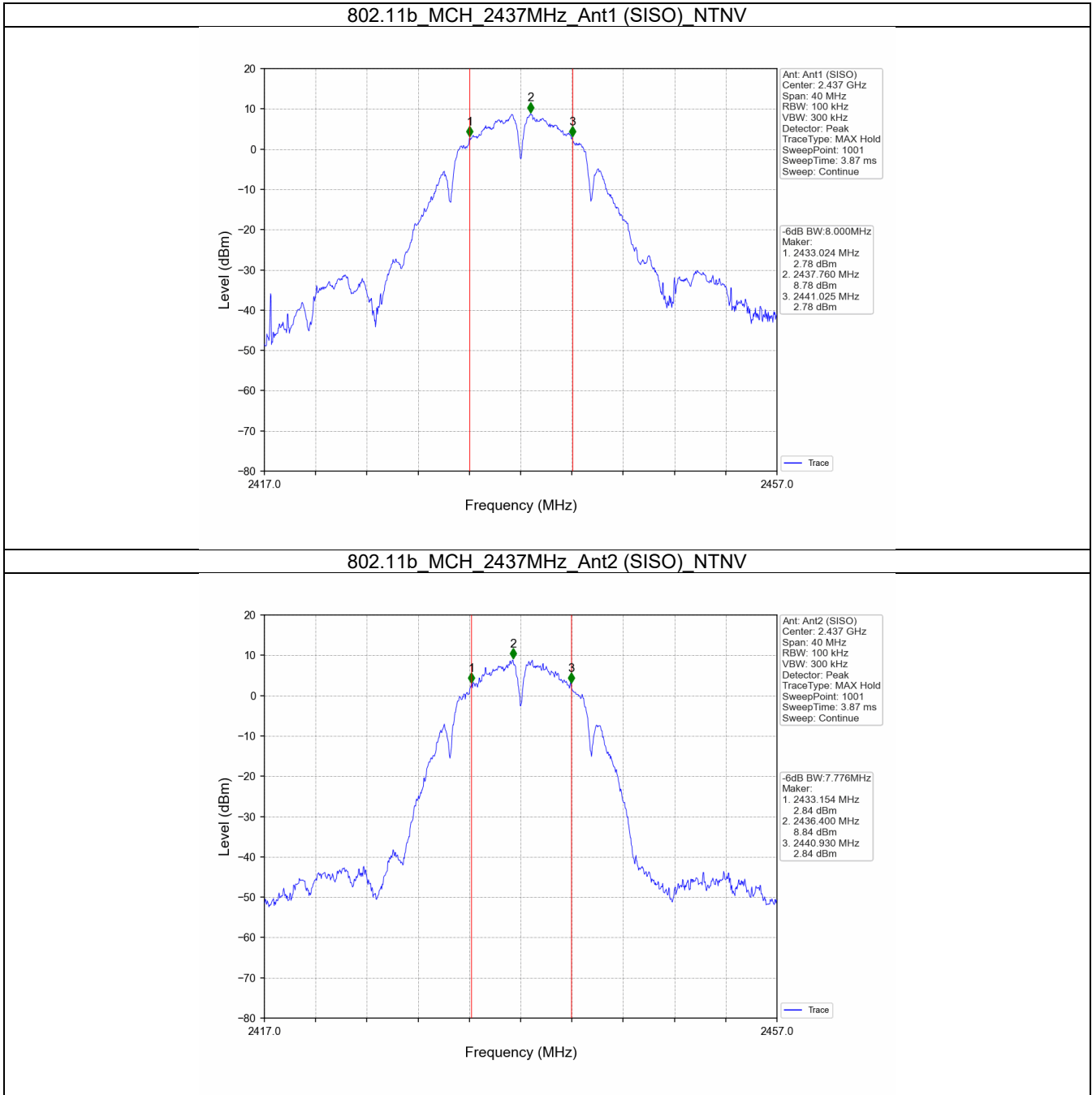
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2.2.2 Test Graph



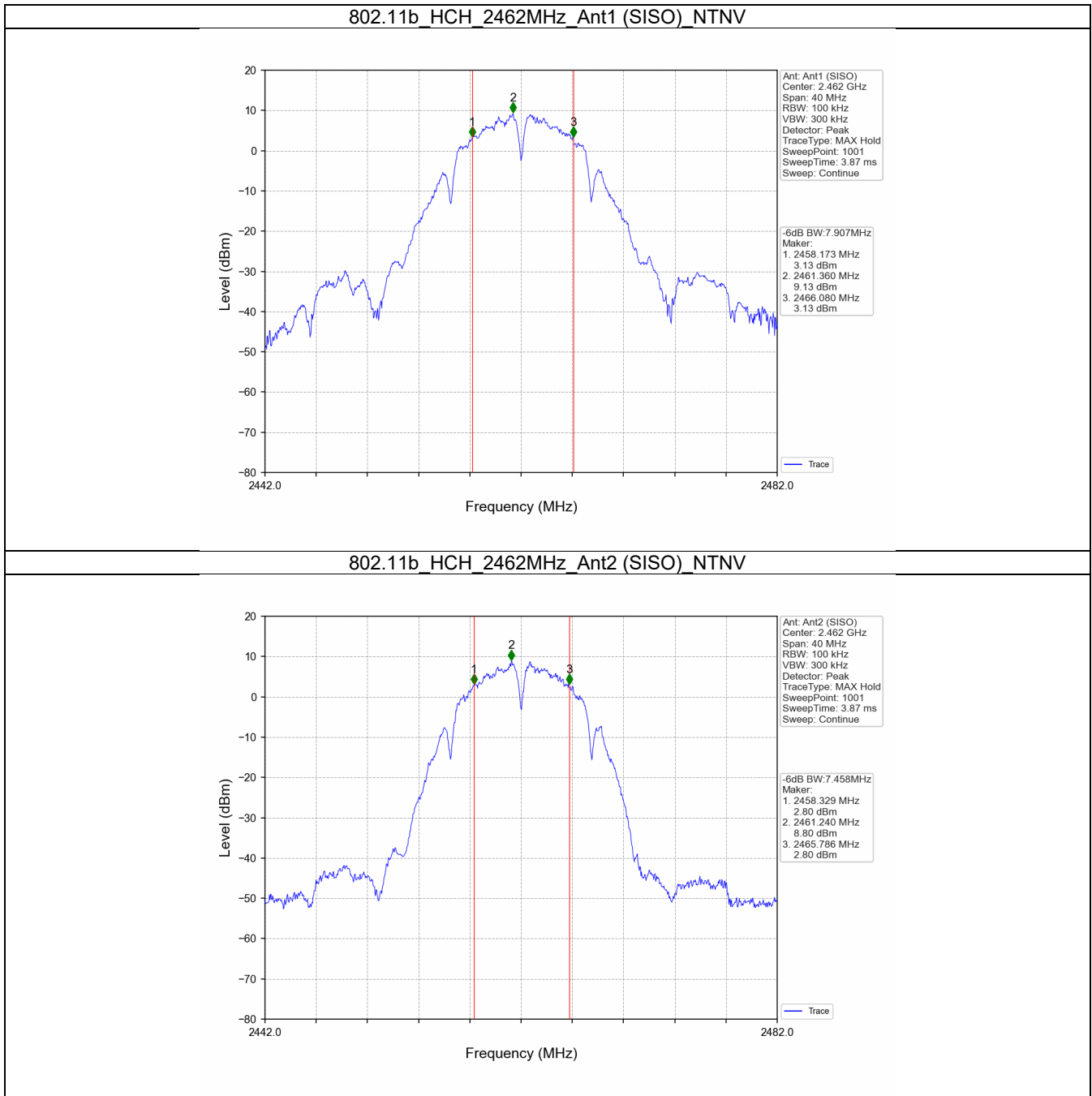
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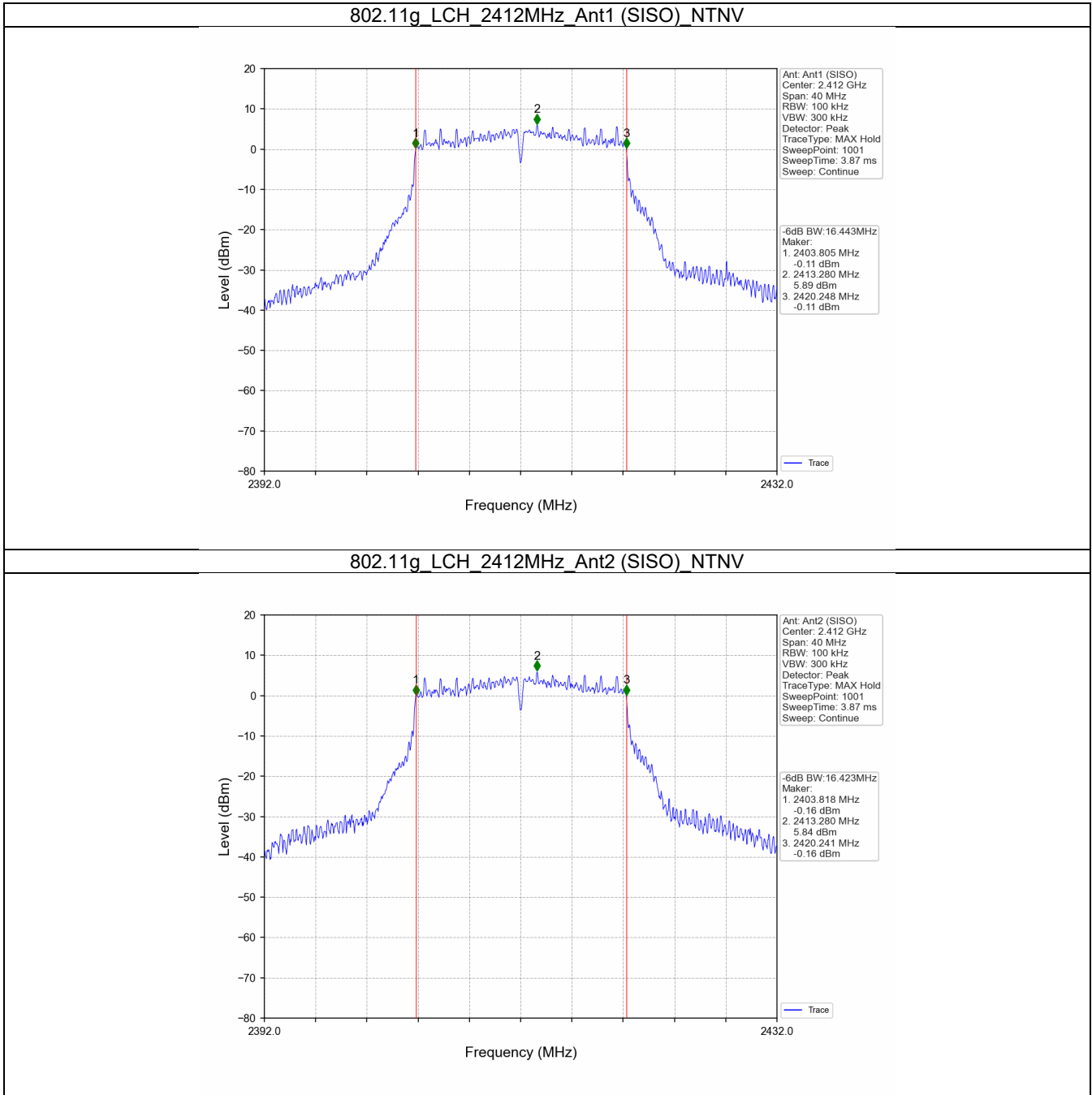
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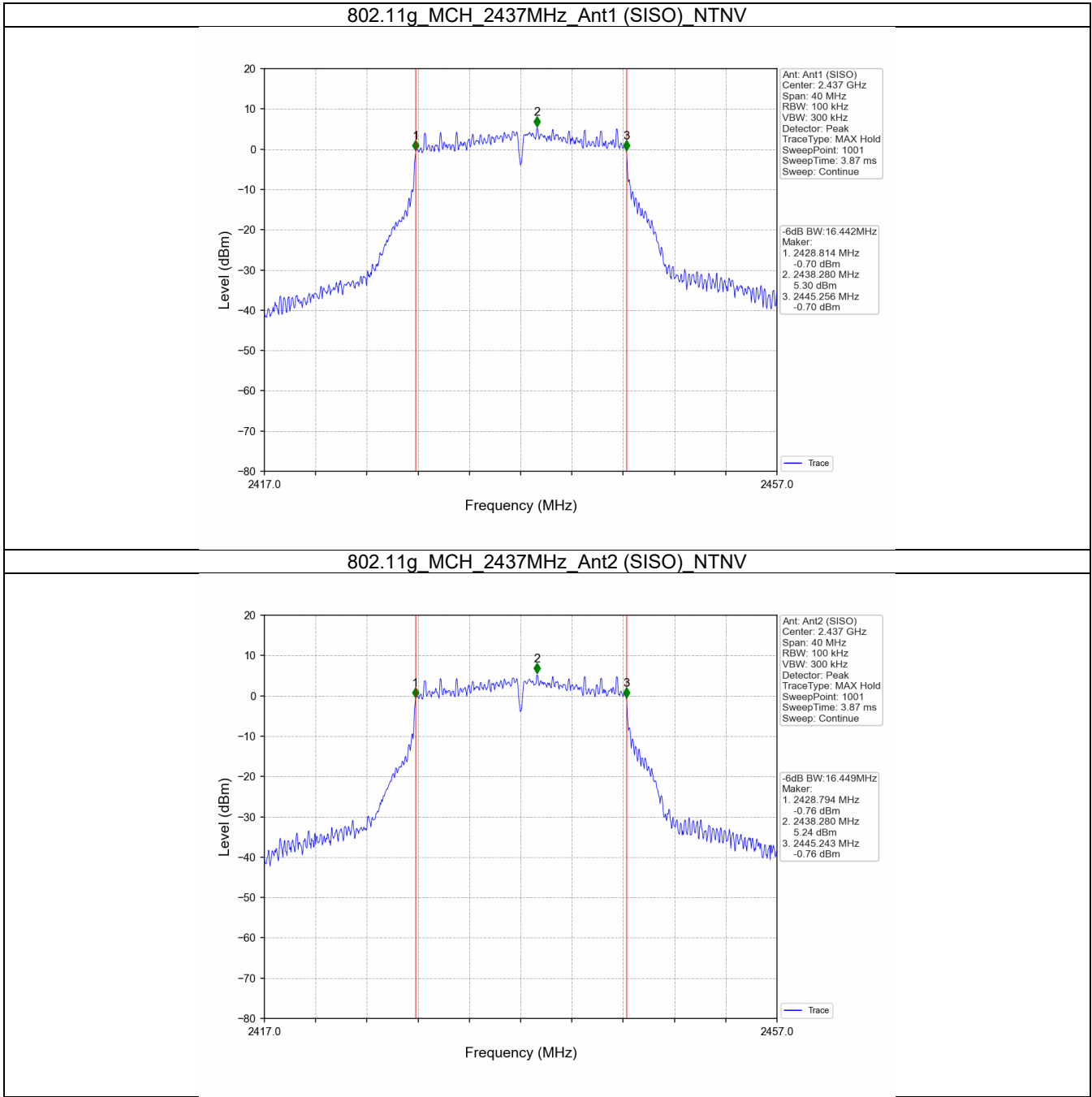
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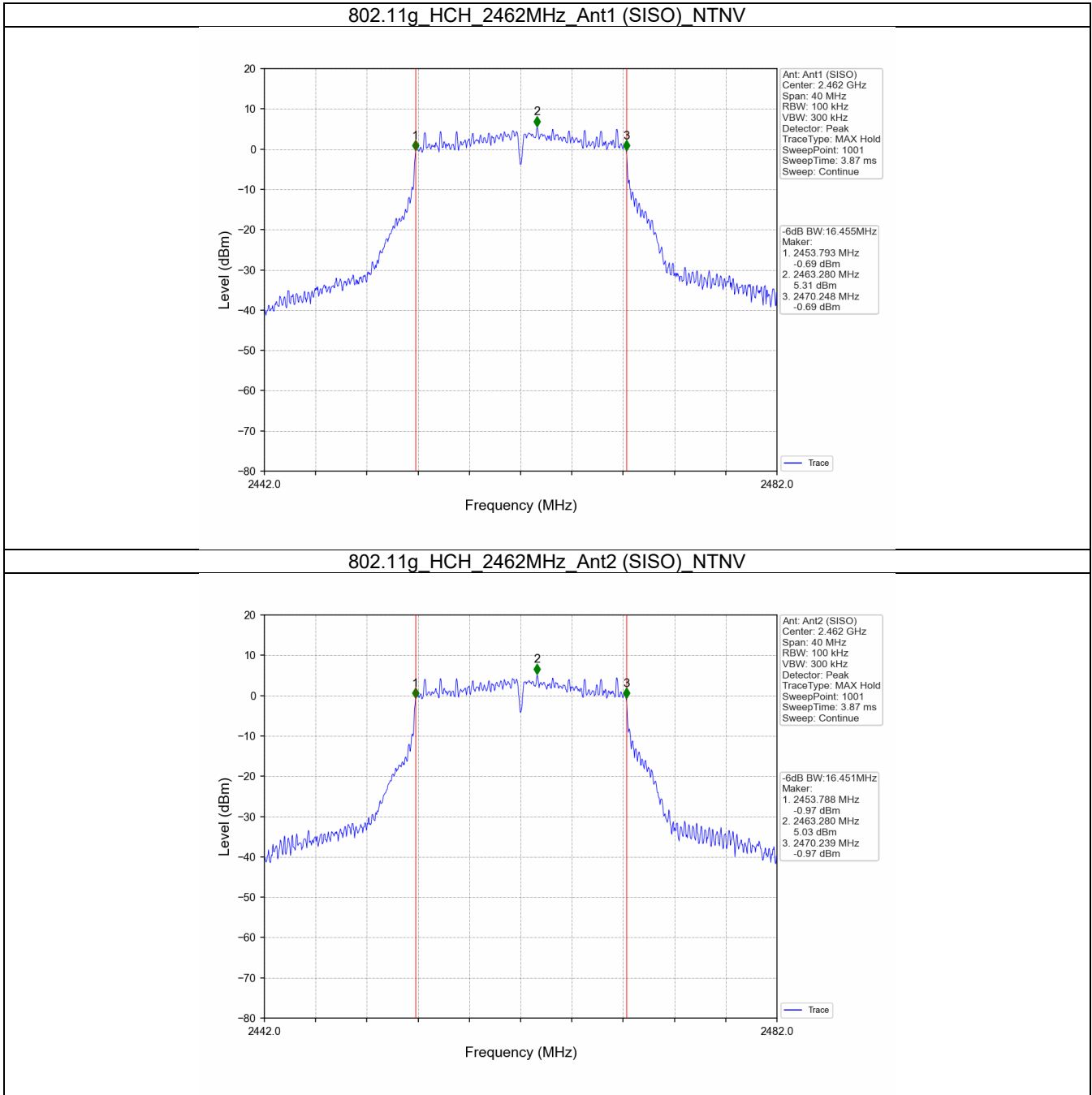
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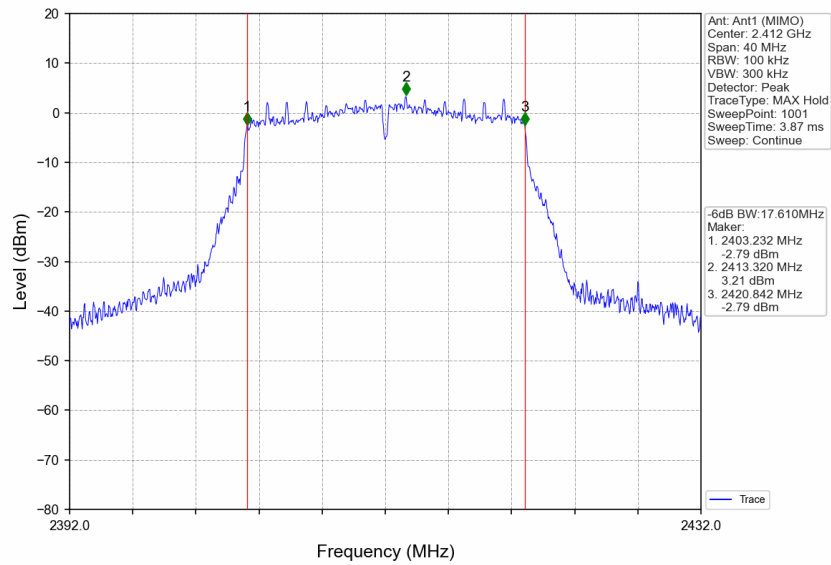
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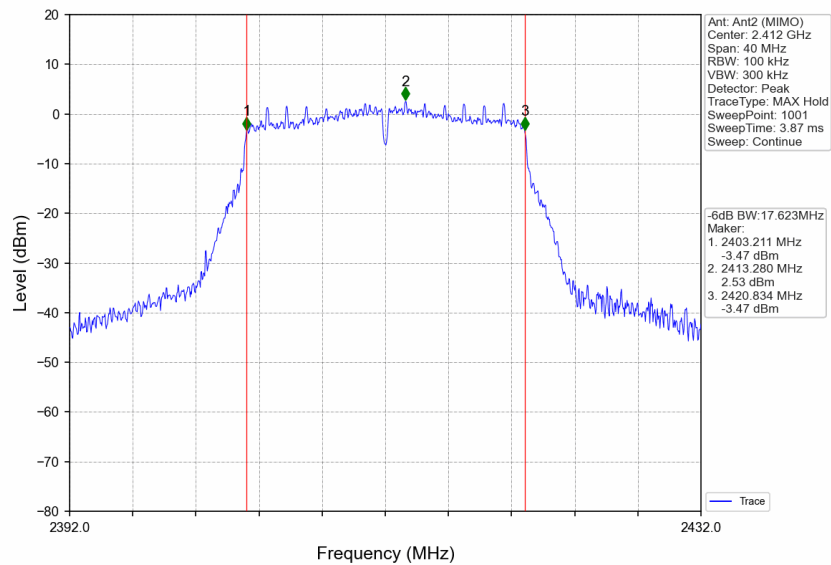
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN

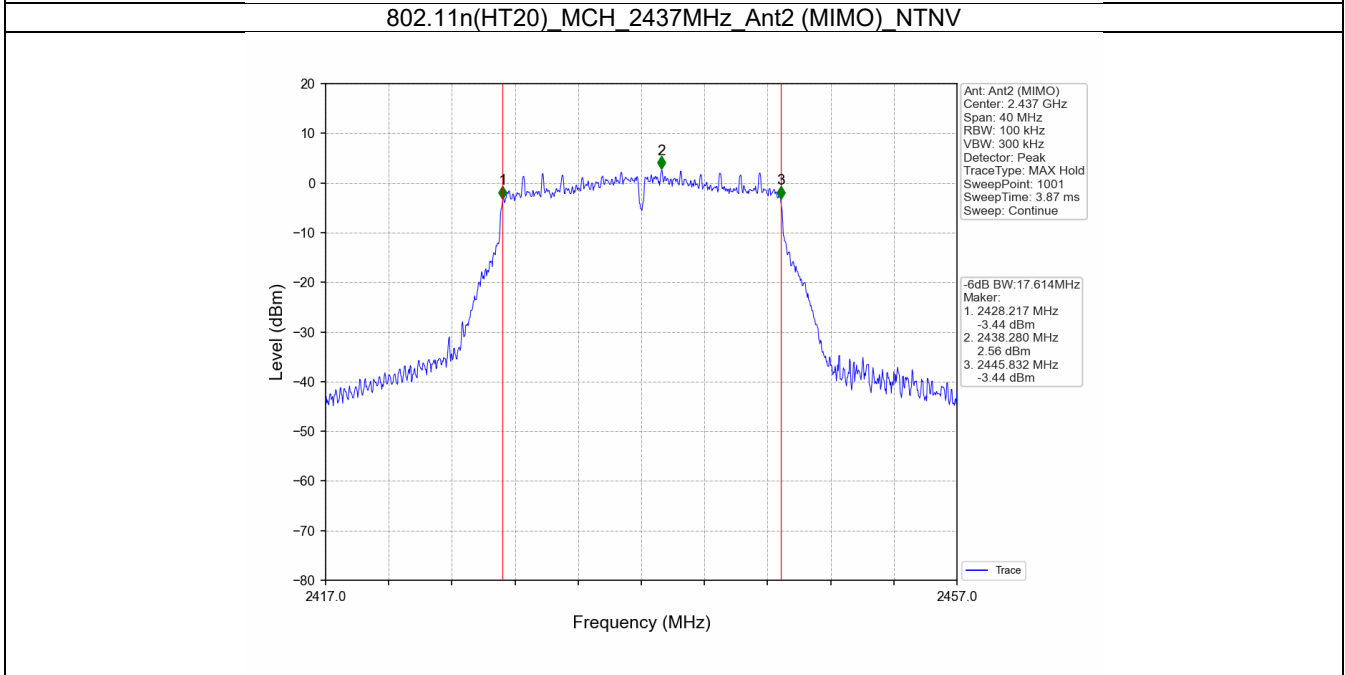
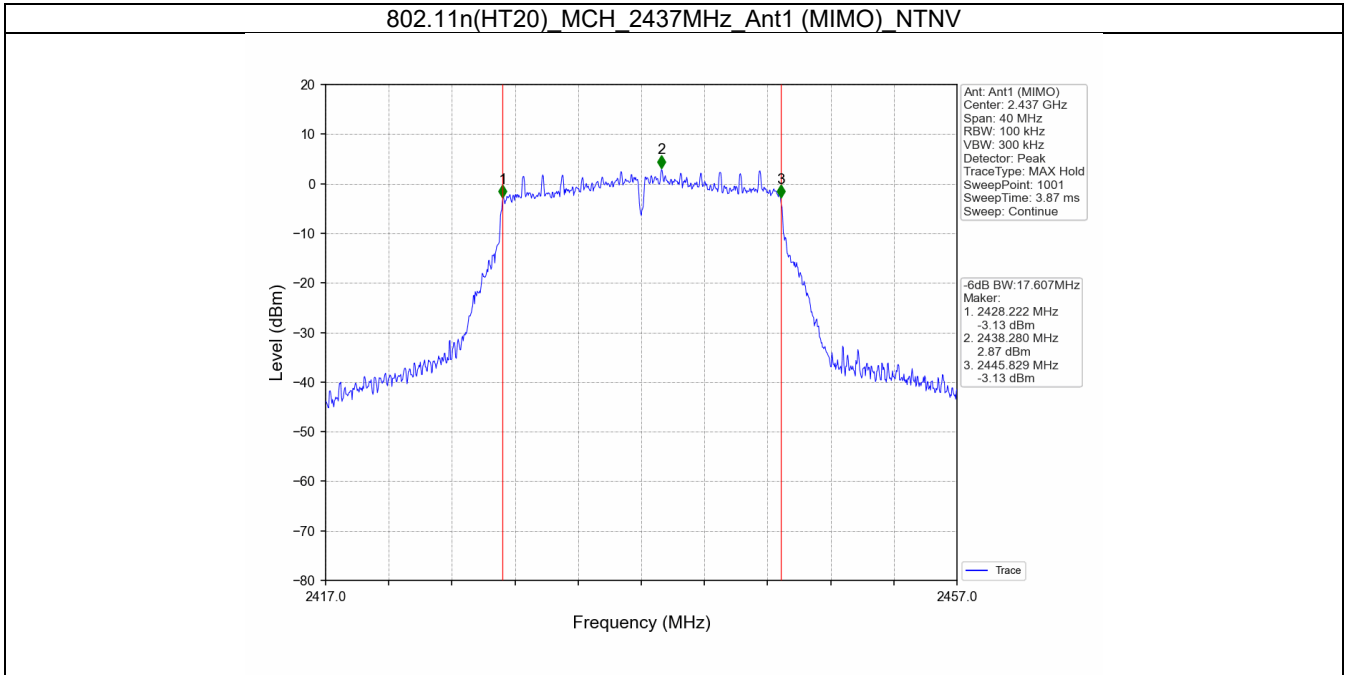


802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



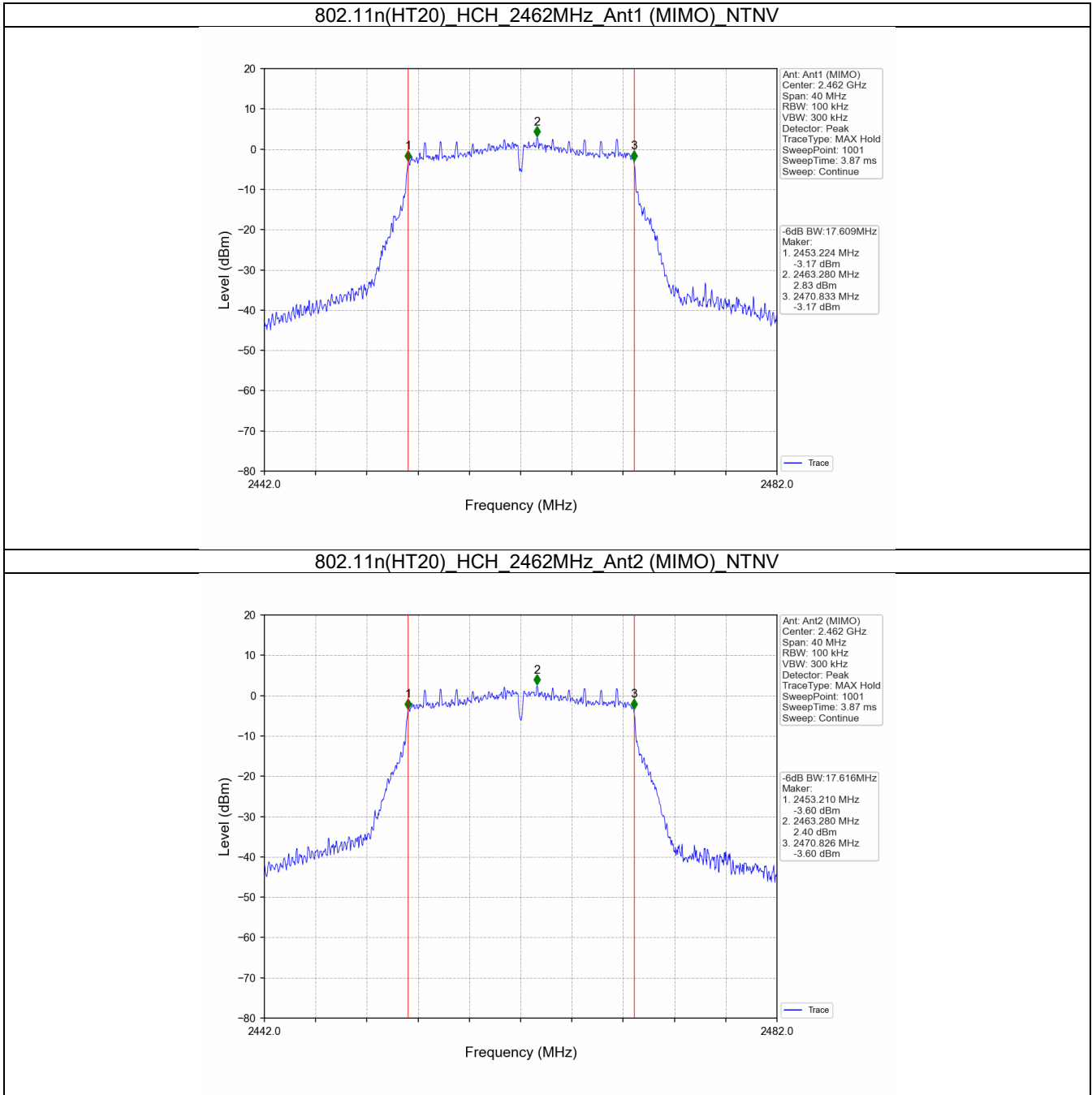
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	16.73	16.27	/	<=30	Pass
		2437	16.46	16.62	/	<=30	Pass
		2462	16.83	16.43	/	<=30	Pass
802.11g	SISO	2412	17.75	17.23	/	<=30	Pass
		2437	17.20	17.15	/	<=30	Pass
		2462	17.24	16.82	/	<=30	Pass
802.11n (HT20)	MIMO	2412	14.92	14.34	17.65	<=30	Pass
		2437	14.47	14.42	17.46	<=30	Pass
		2462	14.63	14.17	17.42	<=30	Pass

Note1: Antenna Gain: Ant1: 2.70dBi; Ant2: 2.70dBi;
 Note2: Directional Gain: 5.71dBi

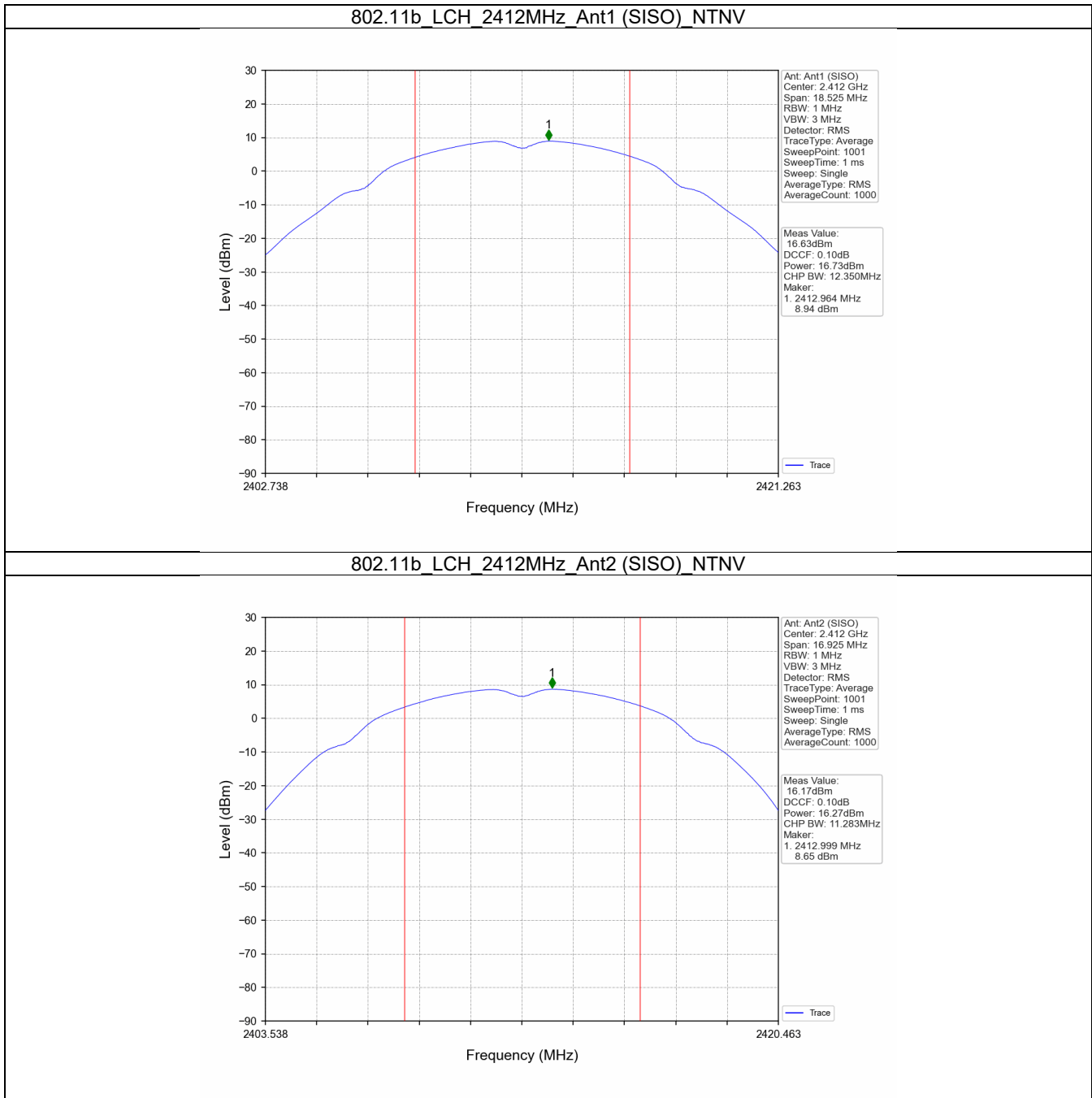


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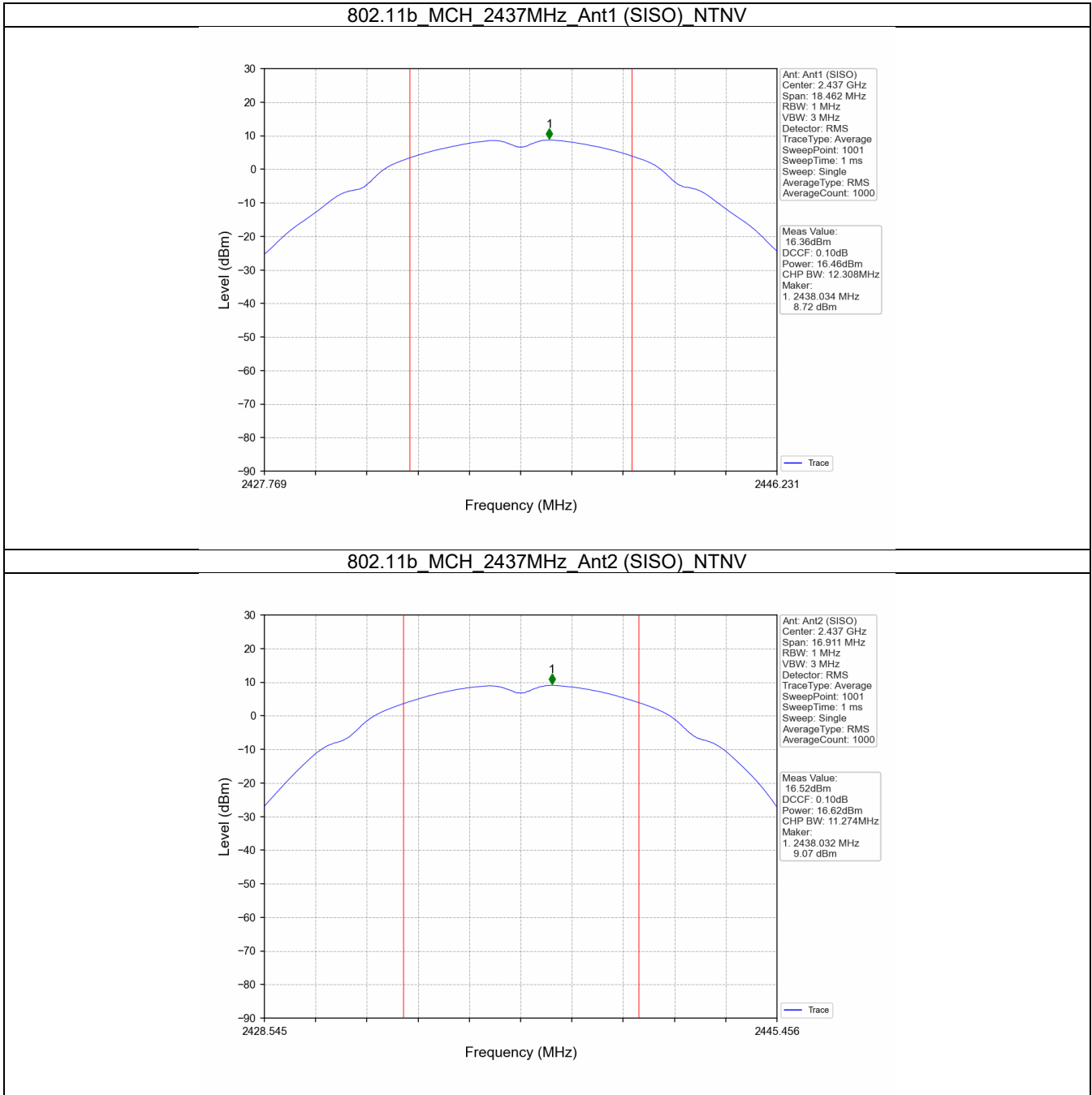
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3.1.2 Test Graph



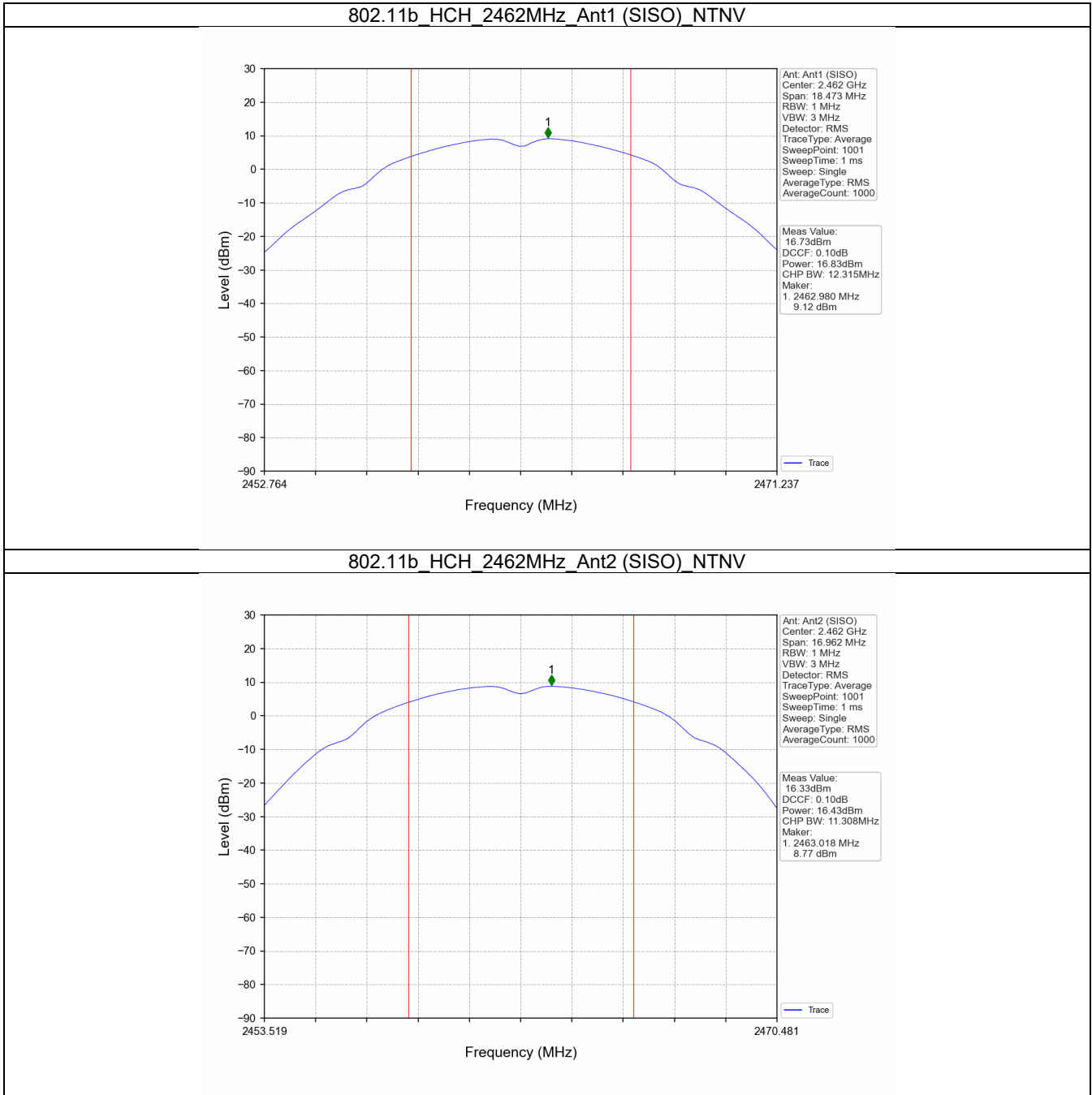
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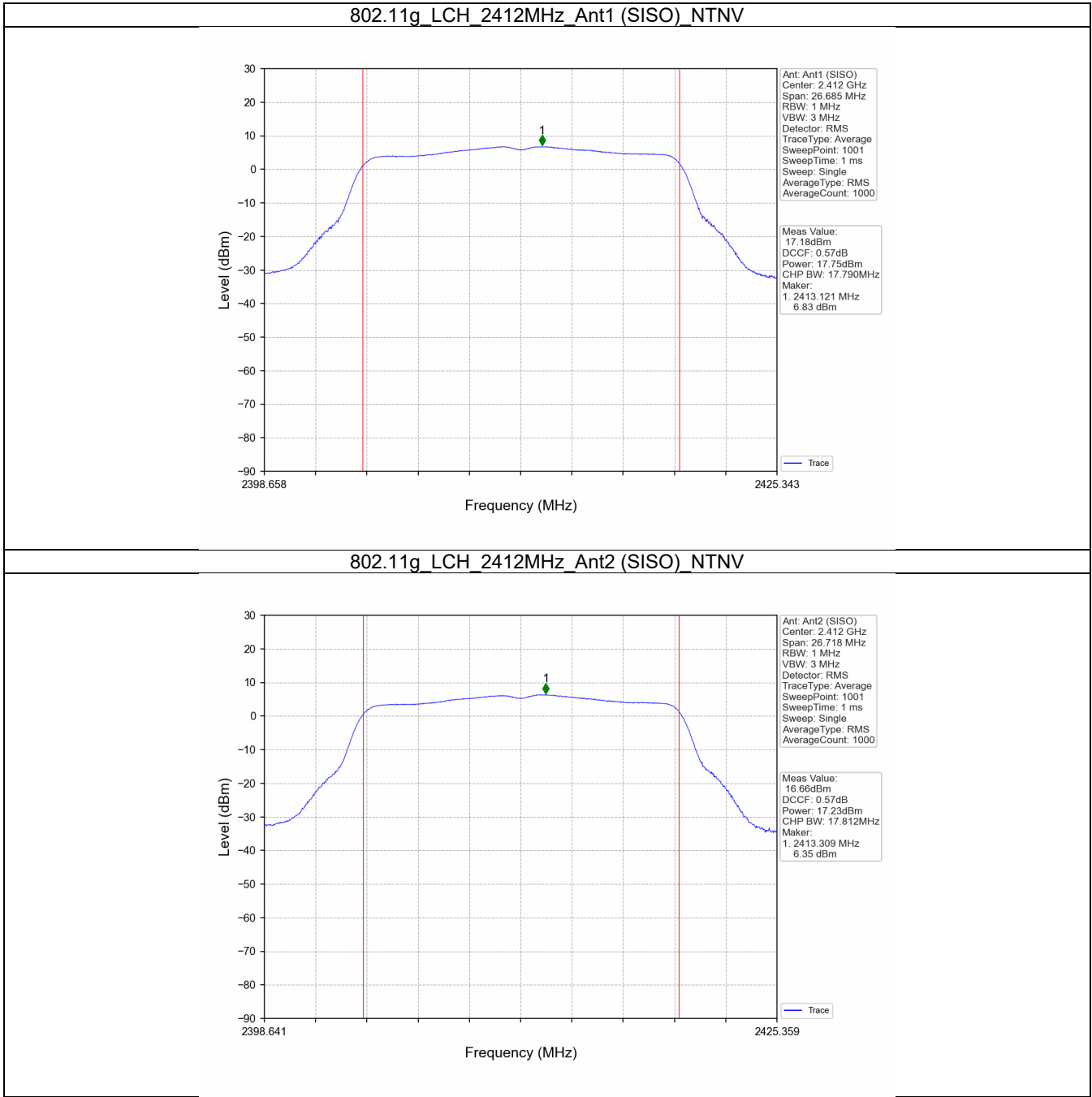
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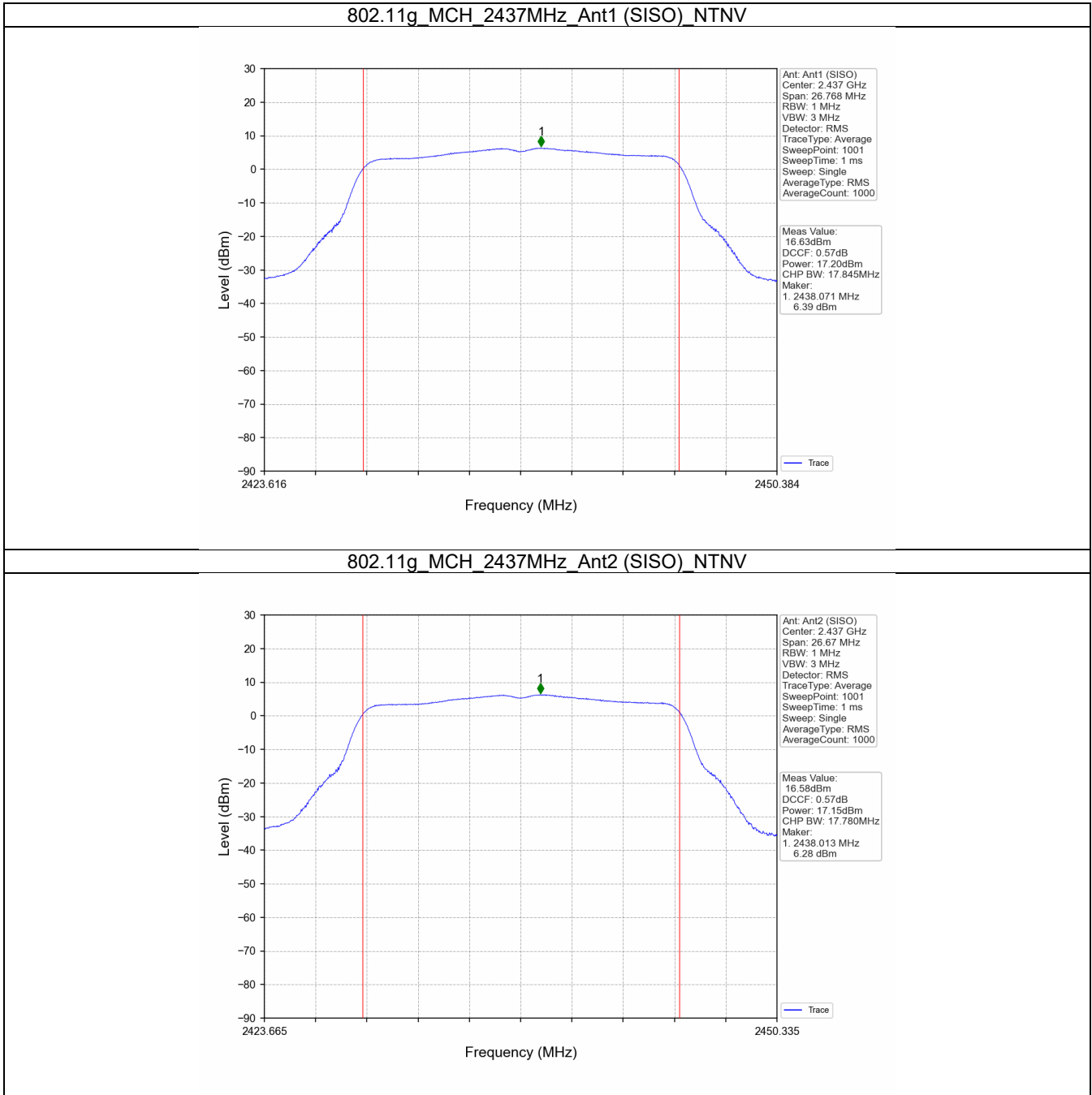
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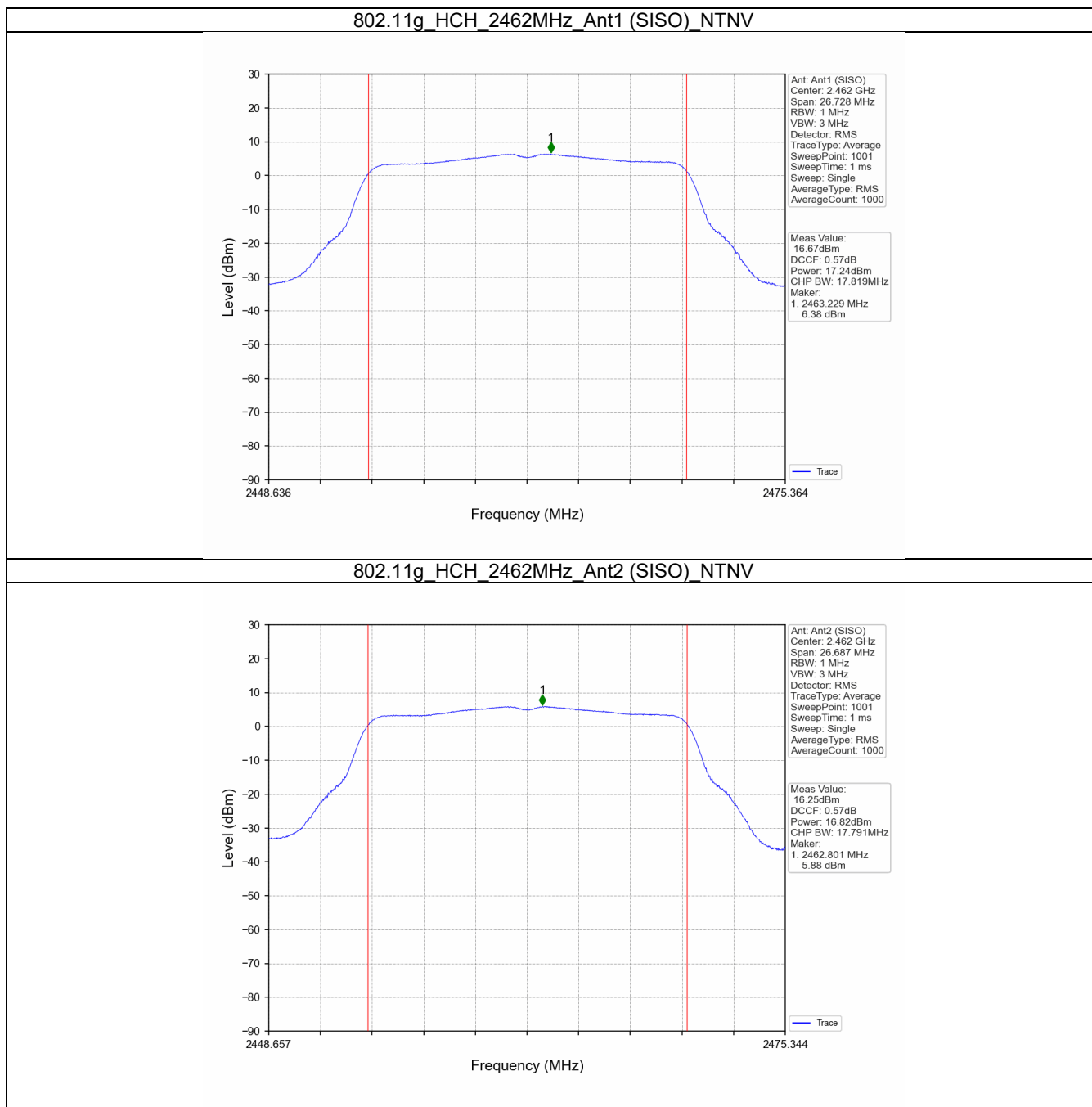
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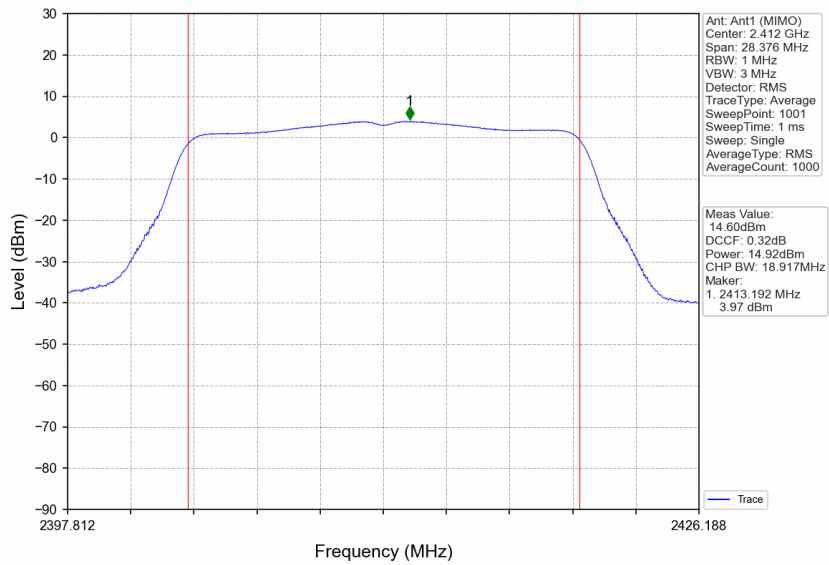
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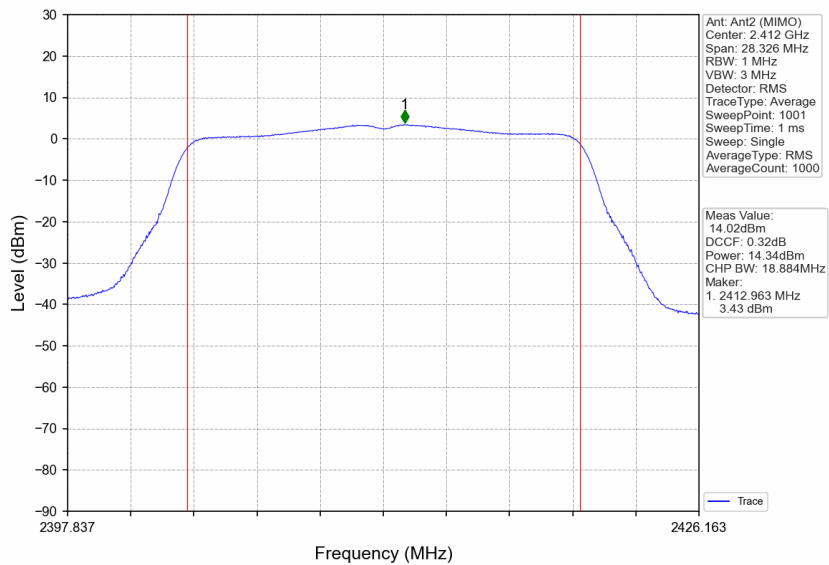
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



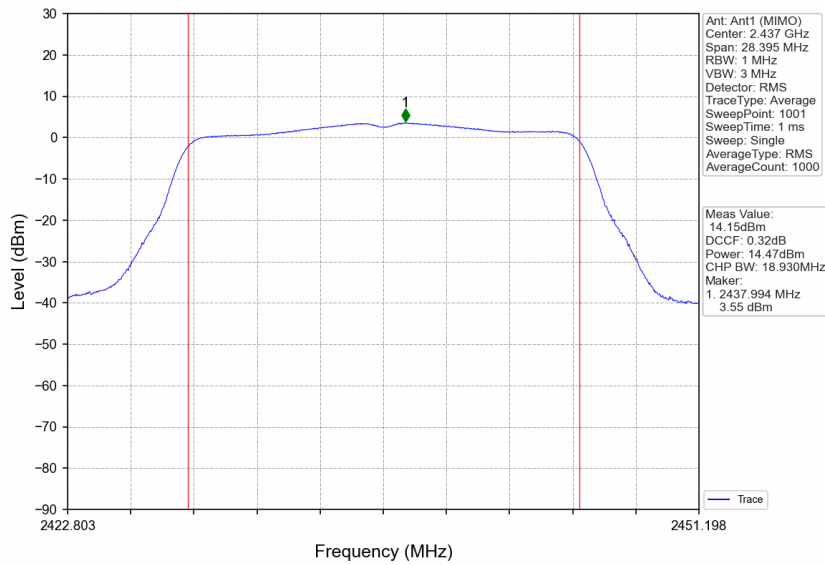
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



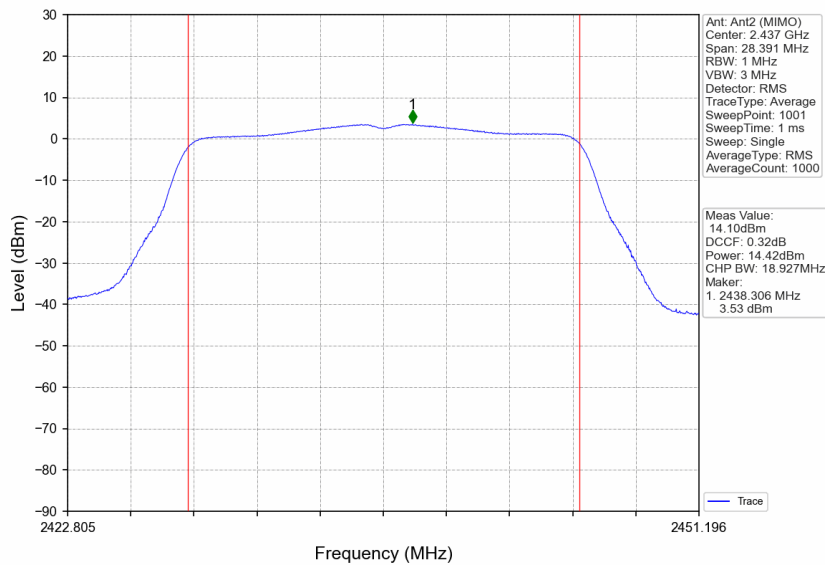
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



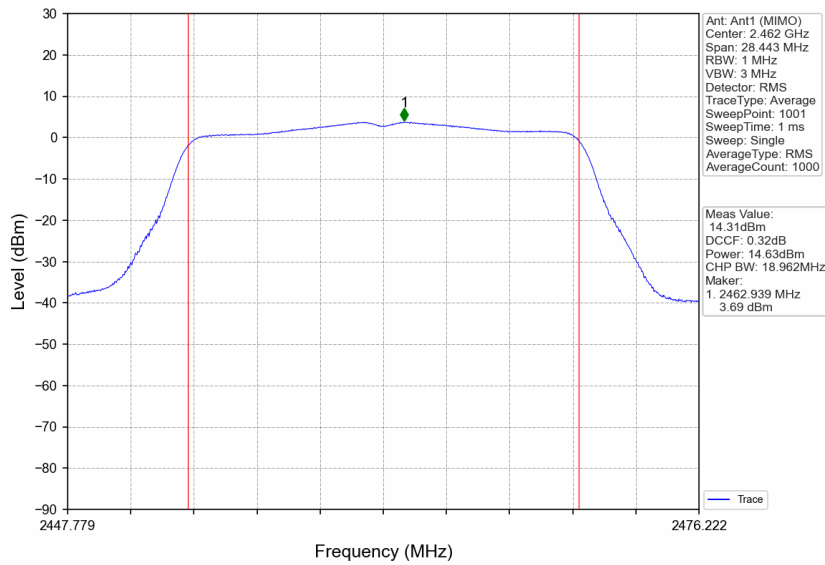
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



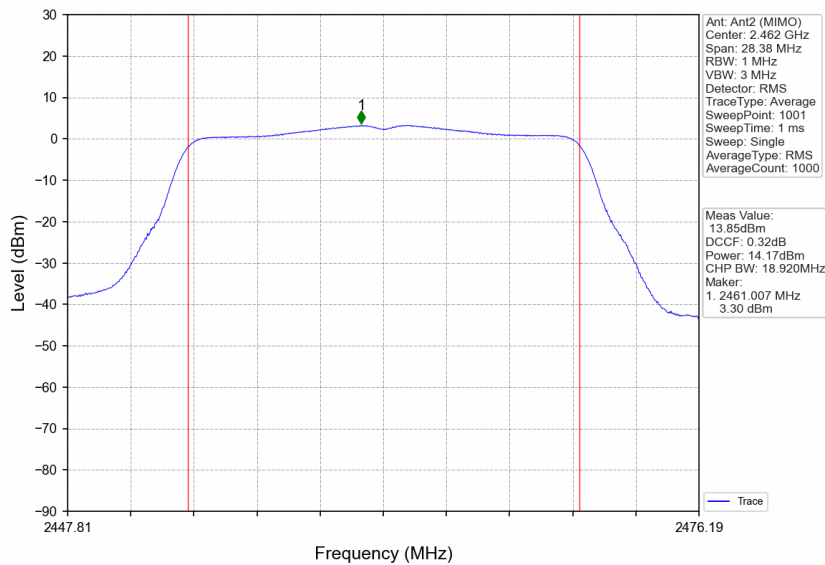
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-5.09	-5.44	/	<=8	Pass
		2437	-5.42	-5.55	/	<=8	Pass
		2462	-5.65	-5.66	/	<=8	Pass
802.11g	SISO	2412	-6.45	-6.17	/	<=8	Pass
		2437	-7.07	-6.43	/	<=8	Pass
		2462	-7.22	-7.01	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-9.92	-10.16	-7.74	<=8	Pass
		2437	-9.56	-9.81	-7.35	<=8	Pass
		2462	-9.97	-10.01	-7.84	<=8	Pass

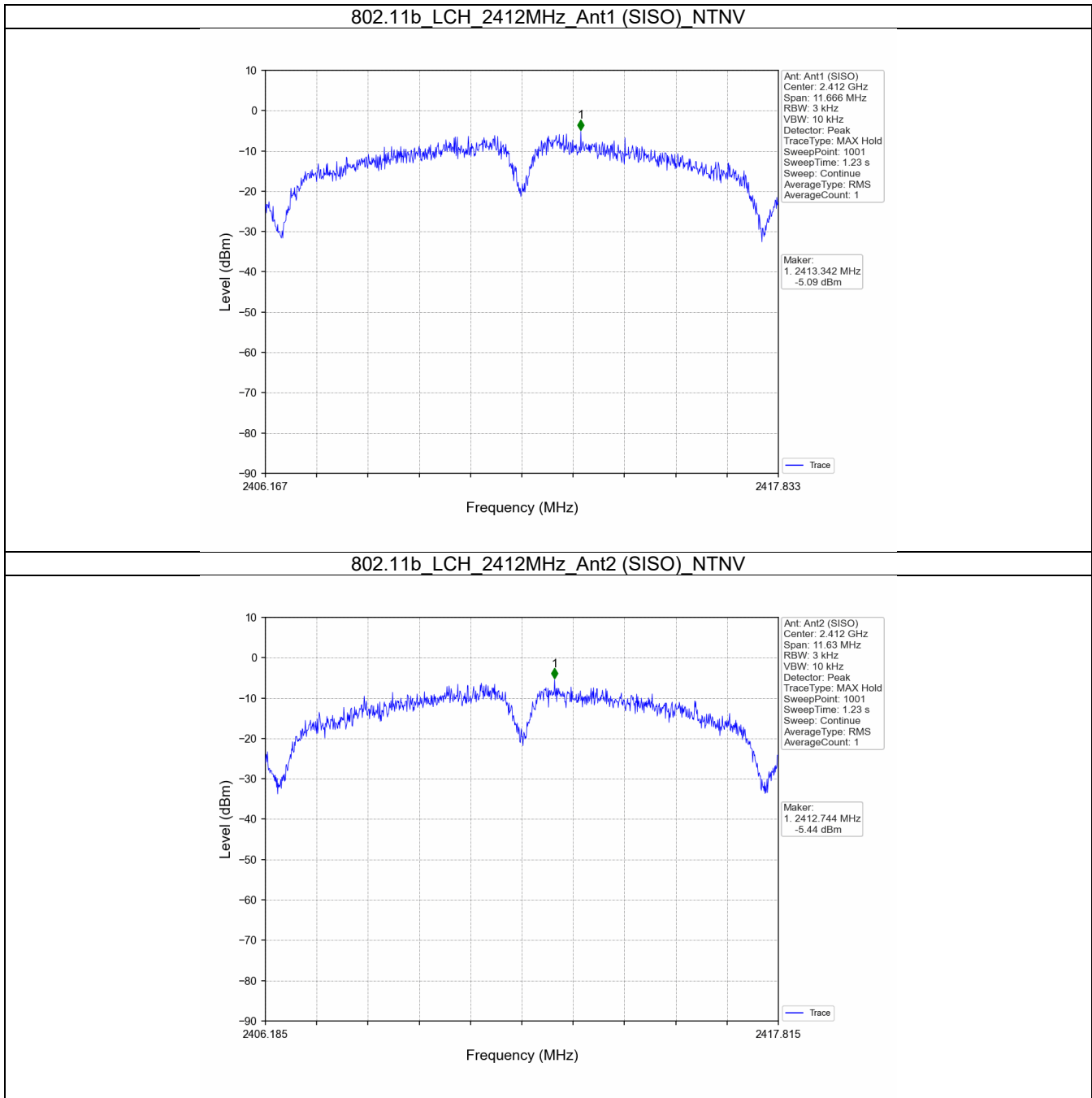
Note1: Antenna Gain: Ant1: 2.70dBi; Ant2: 2.70dBi;



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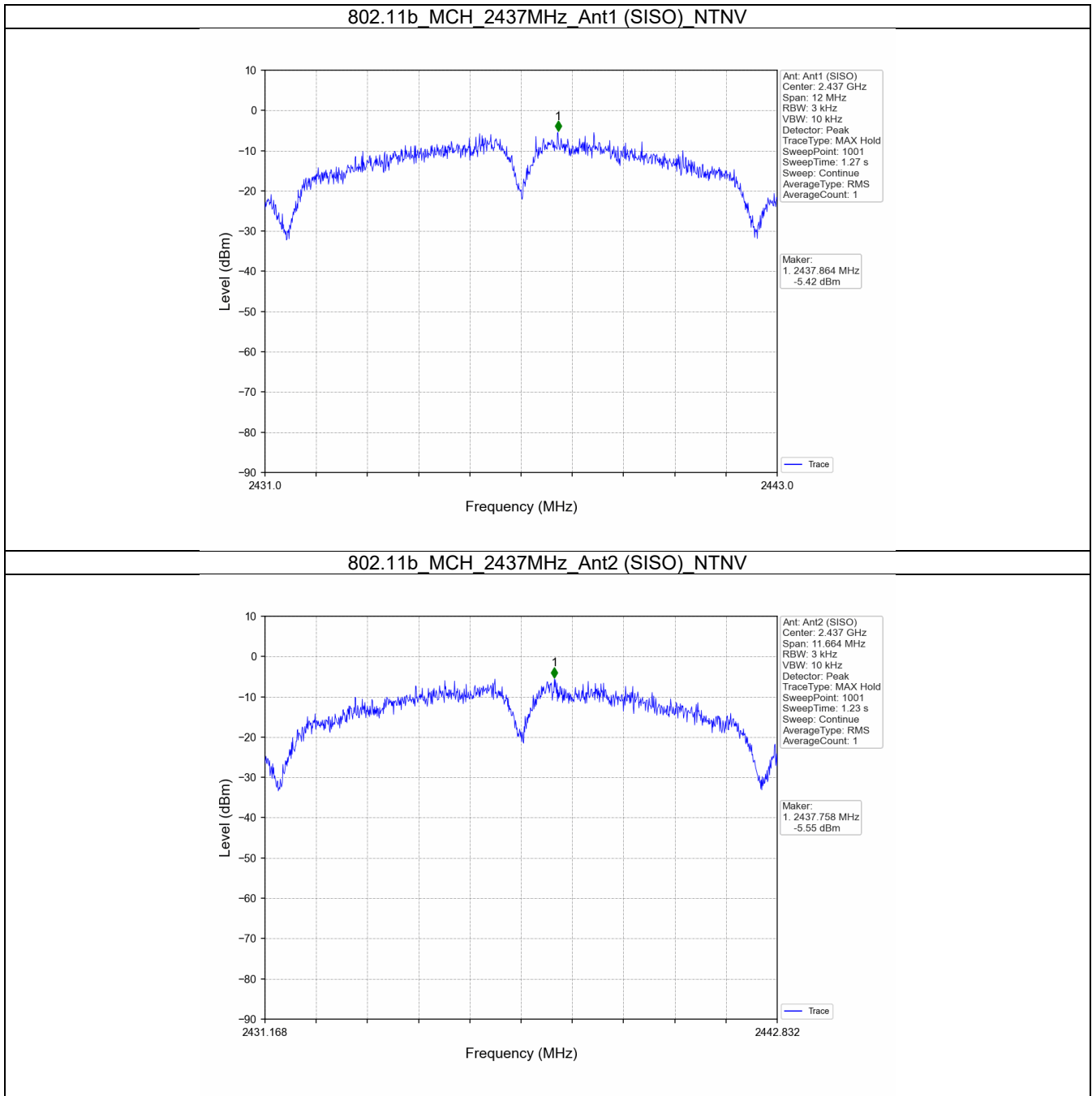
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4.1.2 Test Graph



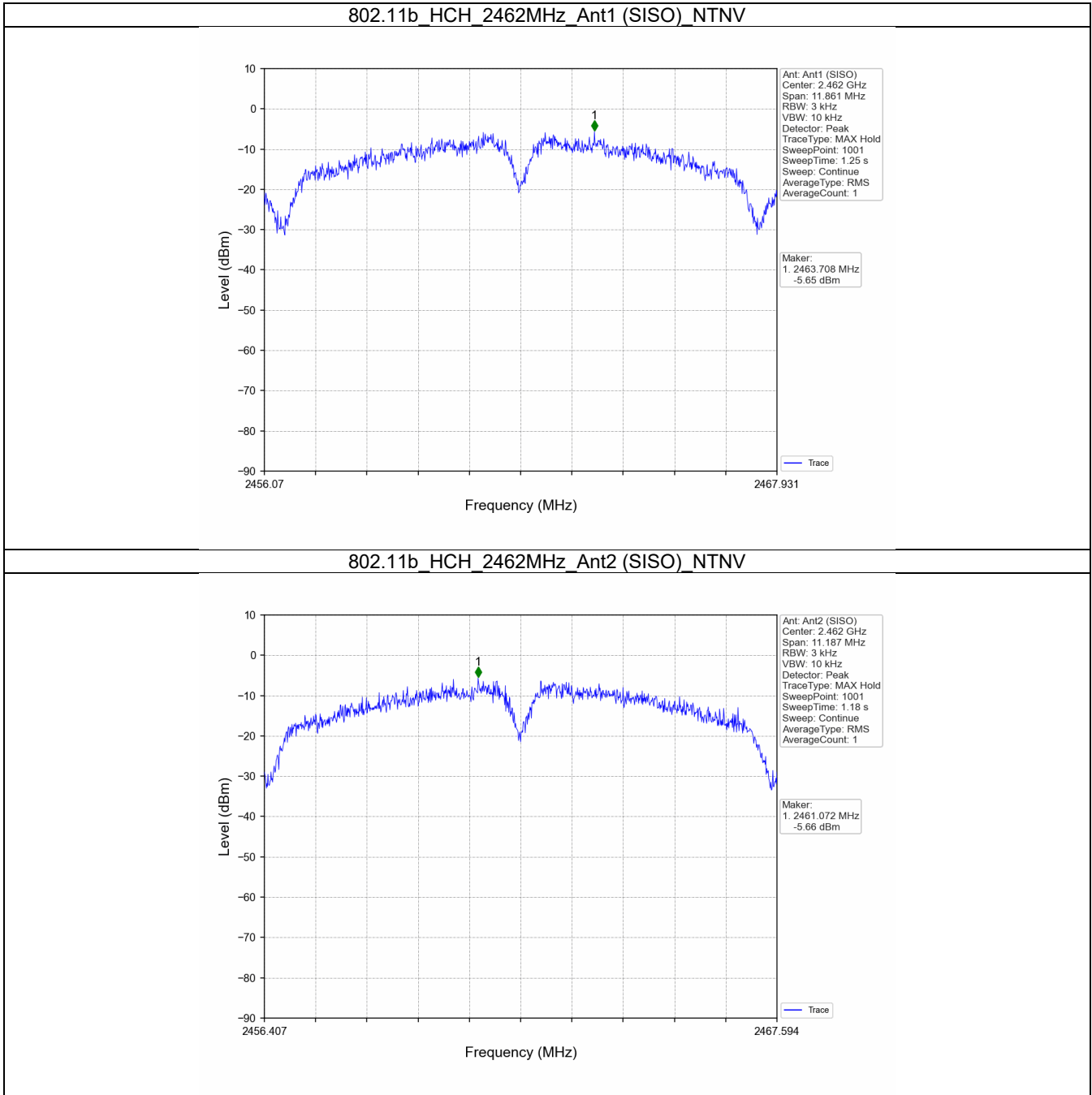
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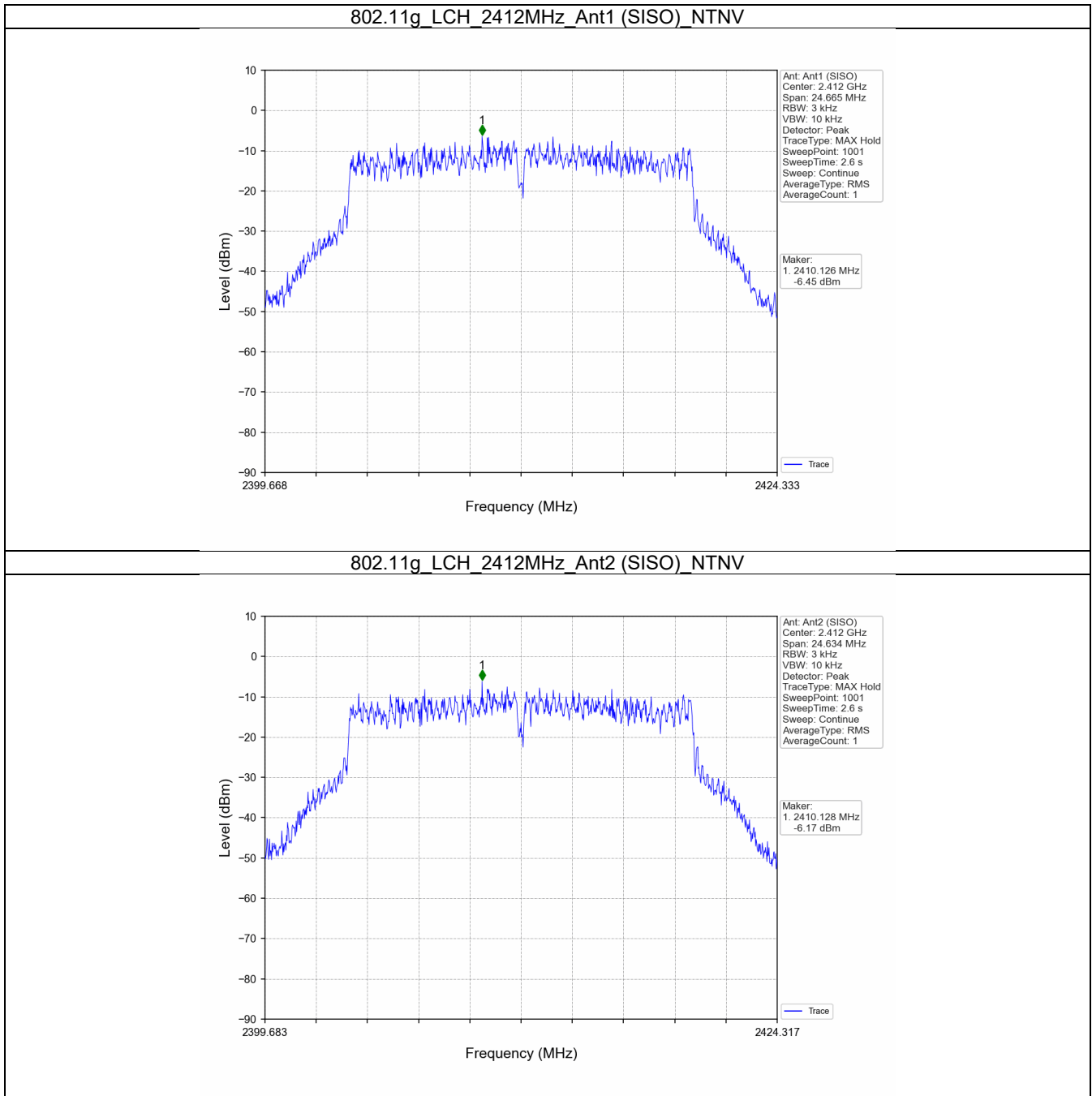
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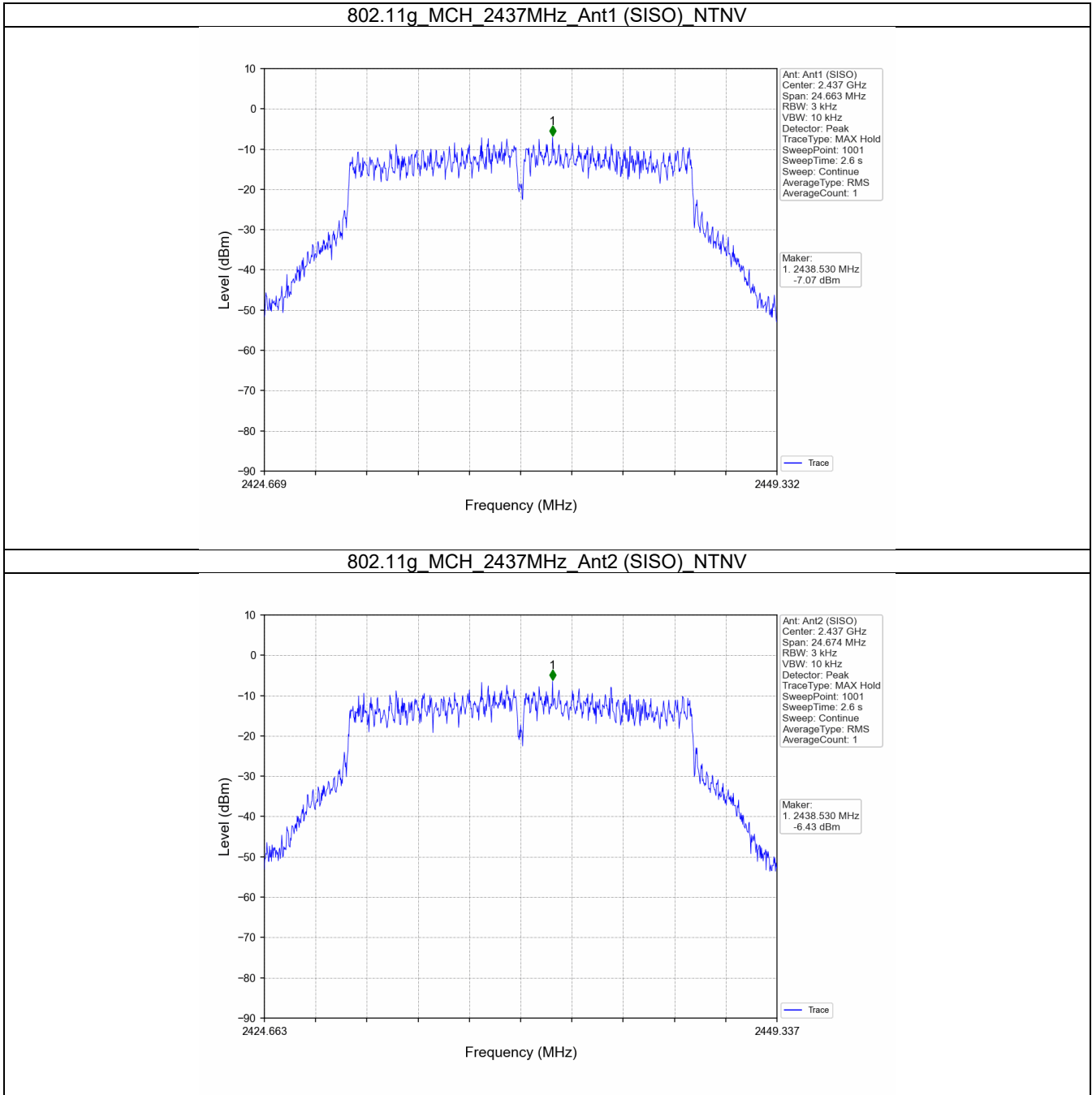
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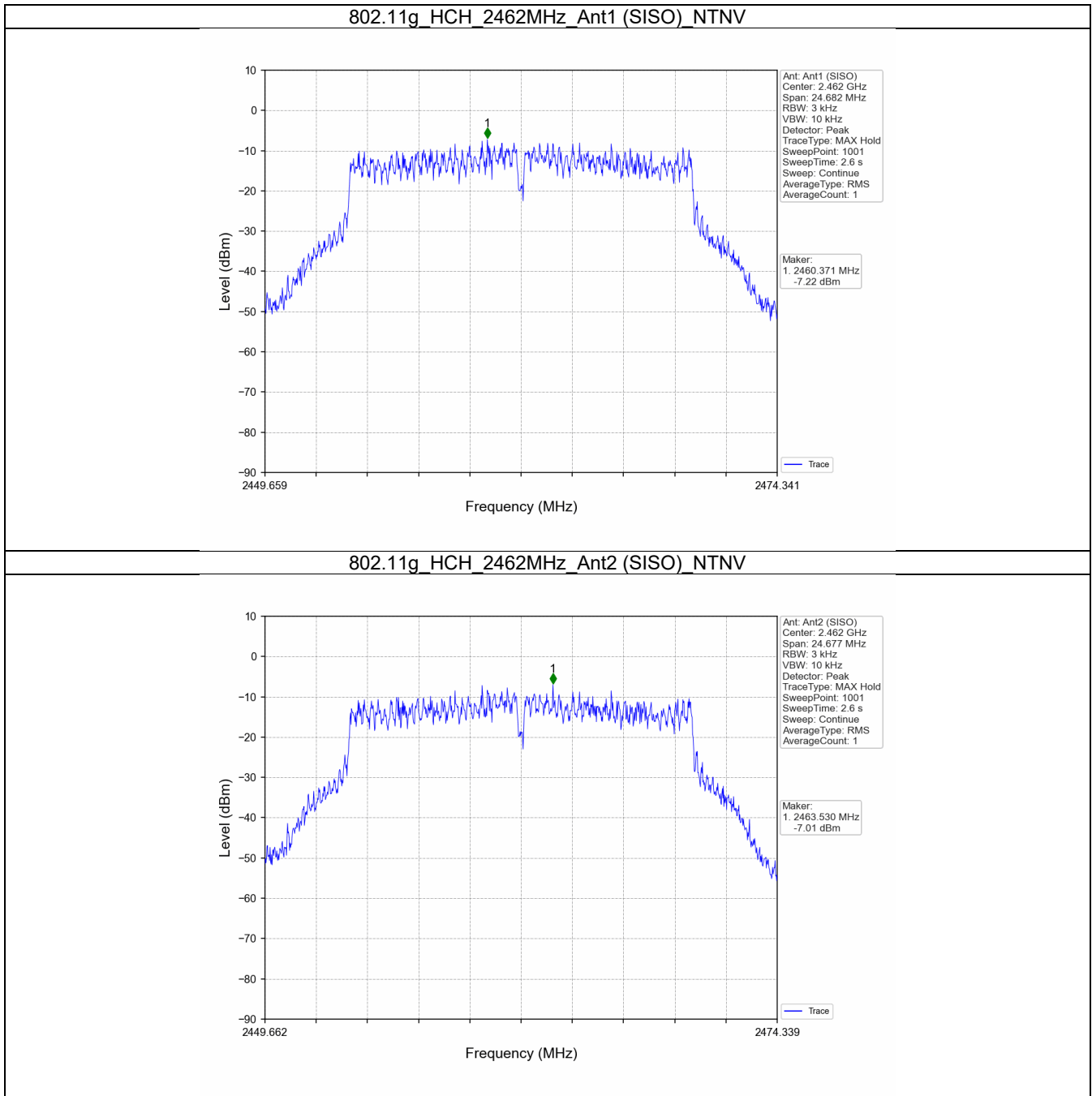
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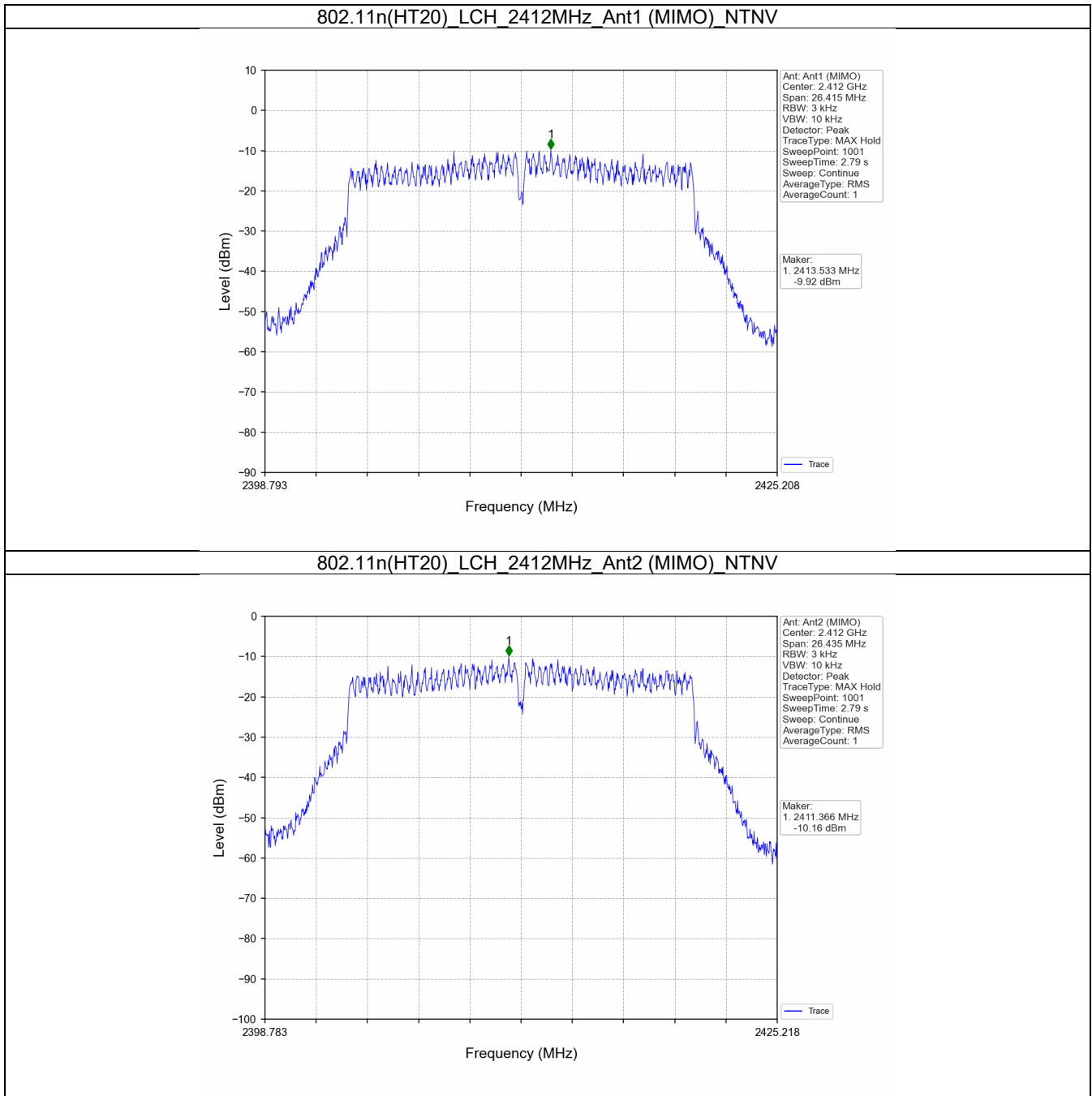
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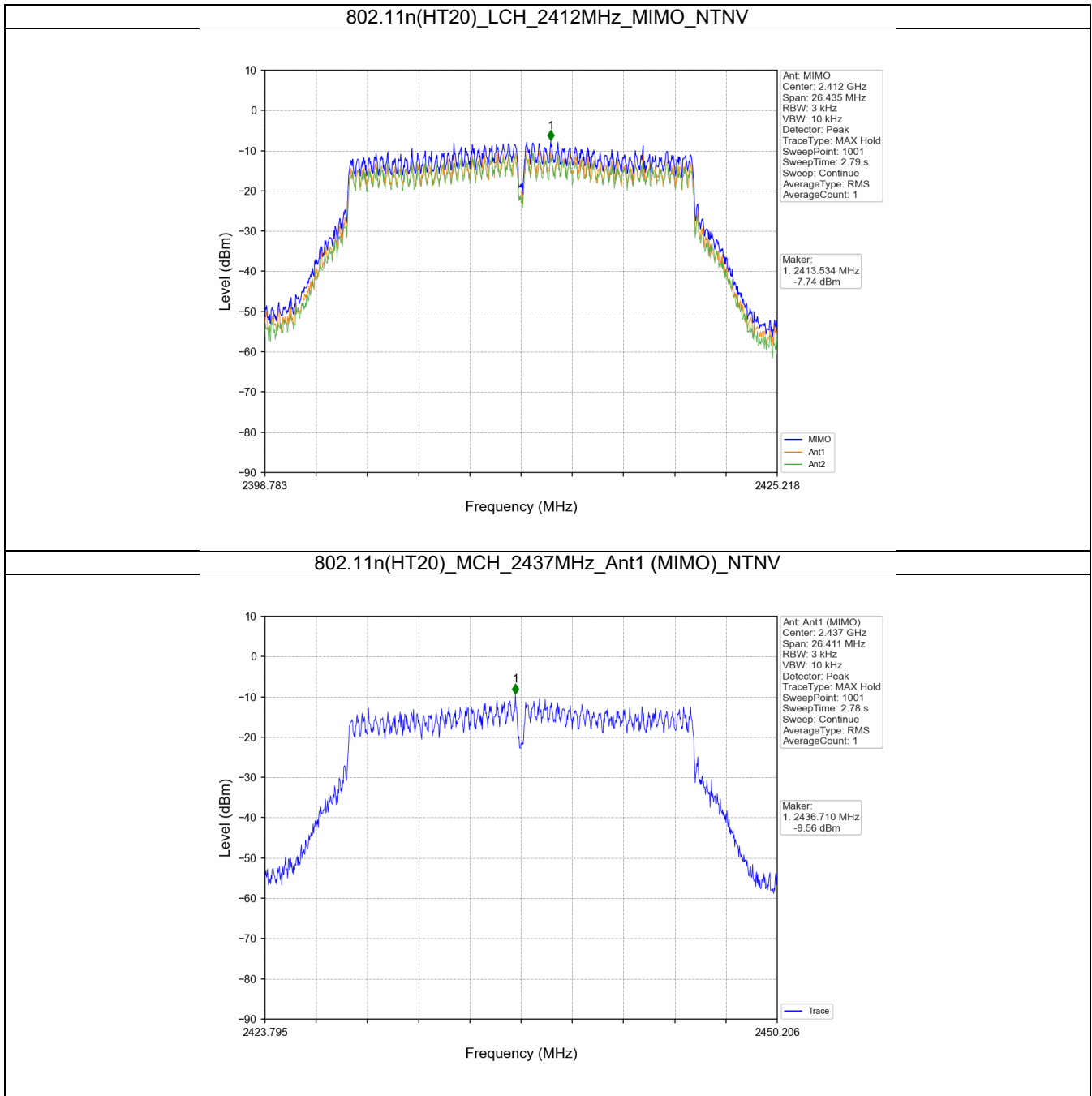
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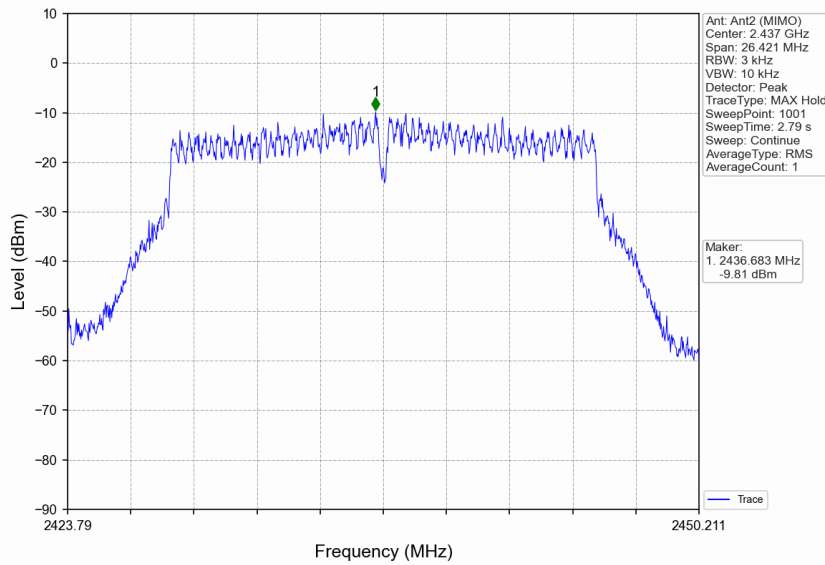
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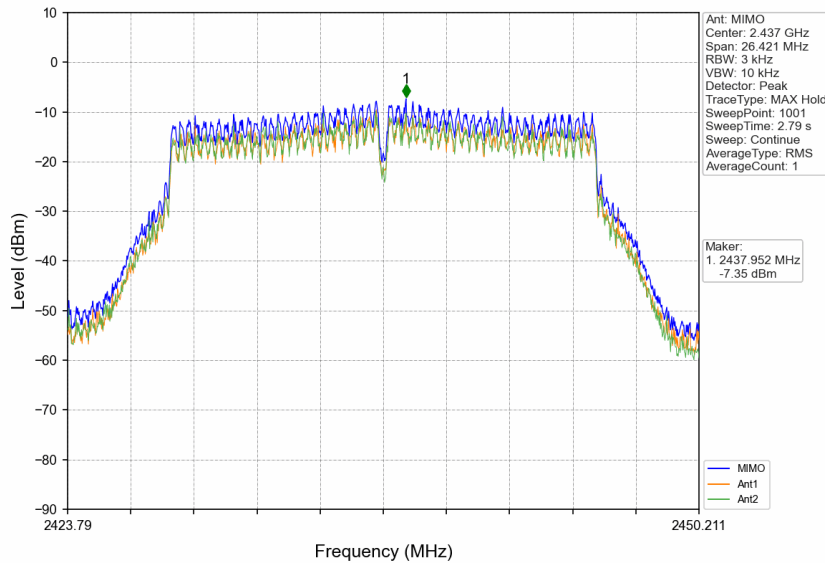
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802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV

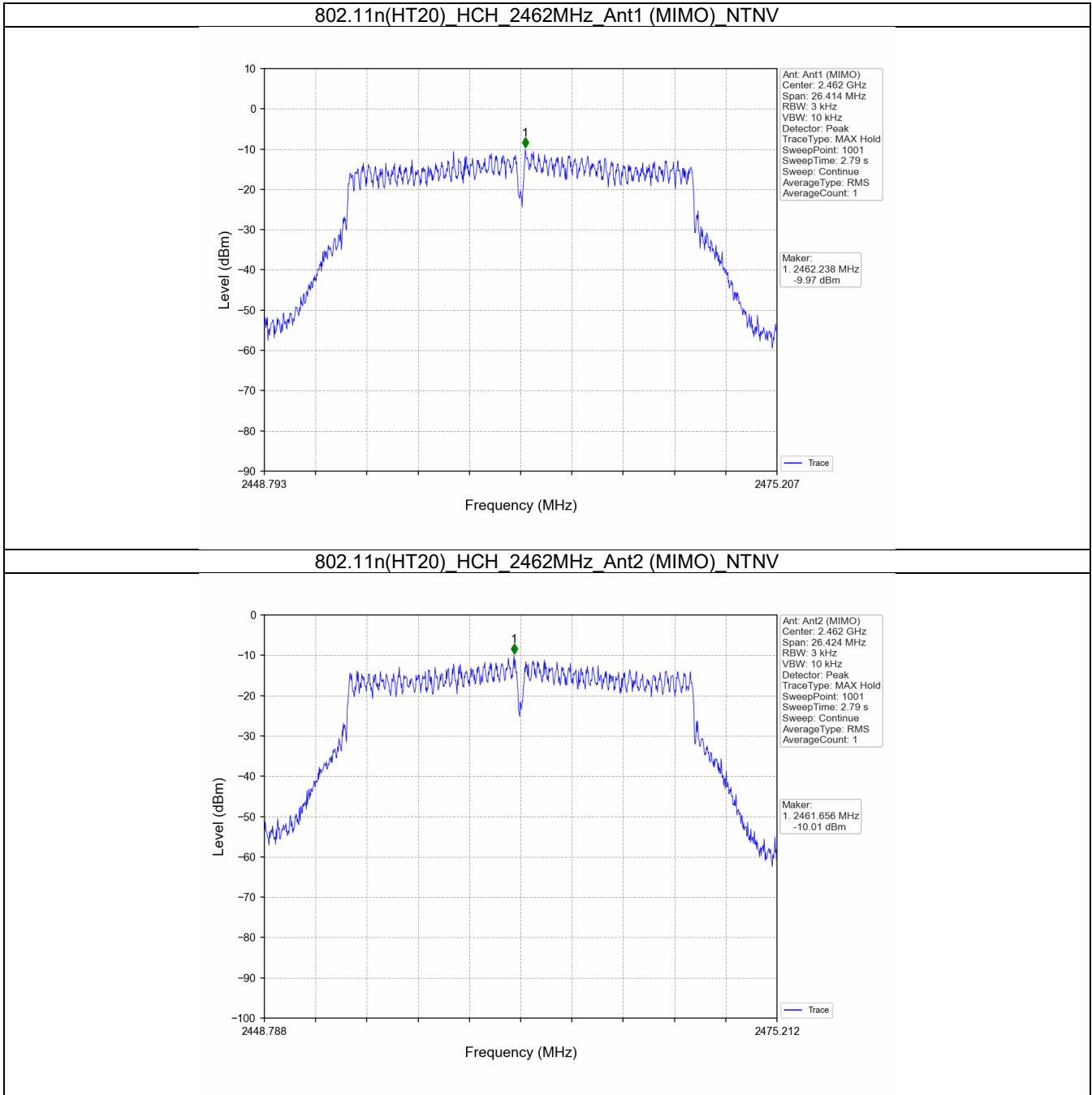


802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



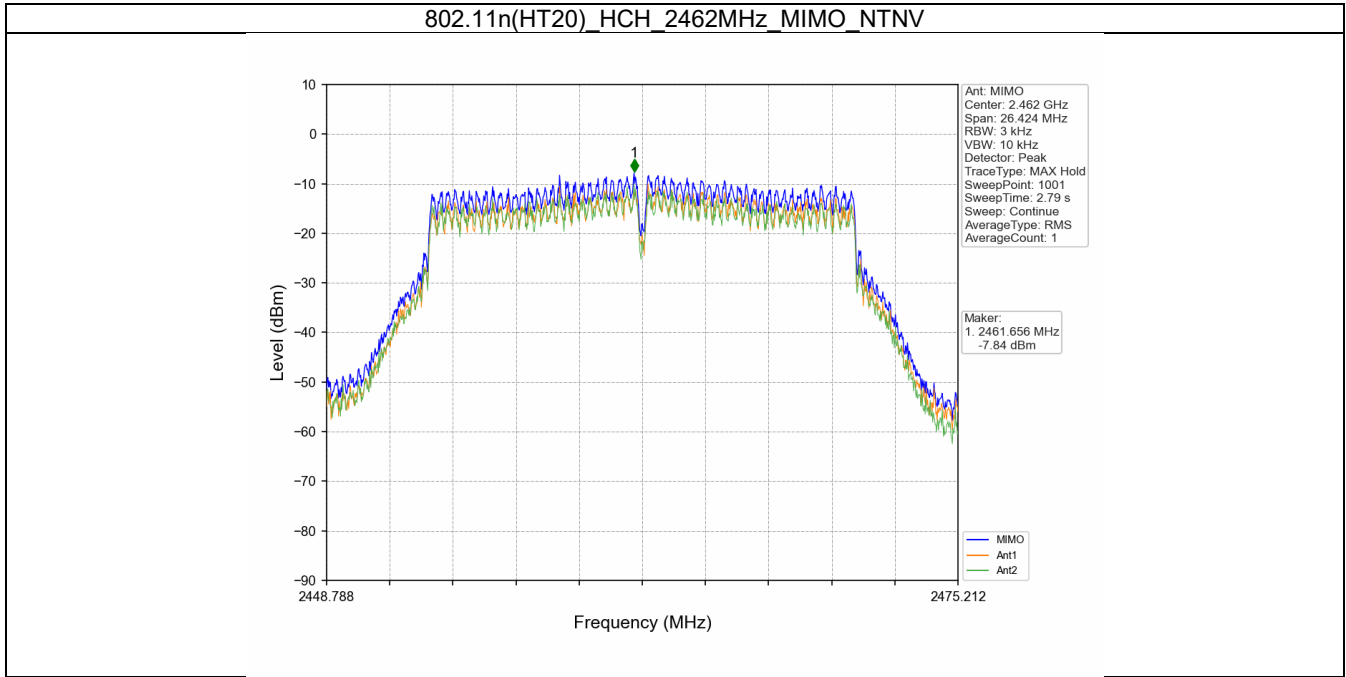
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	9.47
			2	8.40
		2437	1	8.55
			2	8.49
		2462	1	8.98
			2	8.77
802.11g	SISO	2412	1	5.82
			2	5.49
		2437	1	5.16
			2	5.40
		2462	1	5.13
			2	4.71
802.11n (HT20)	MIMO	2412	1	2.90
			2	2.43
		2437	1	2.69
			2	2.61
		2462	1	2.66
			2	2.23

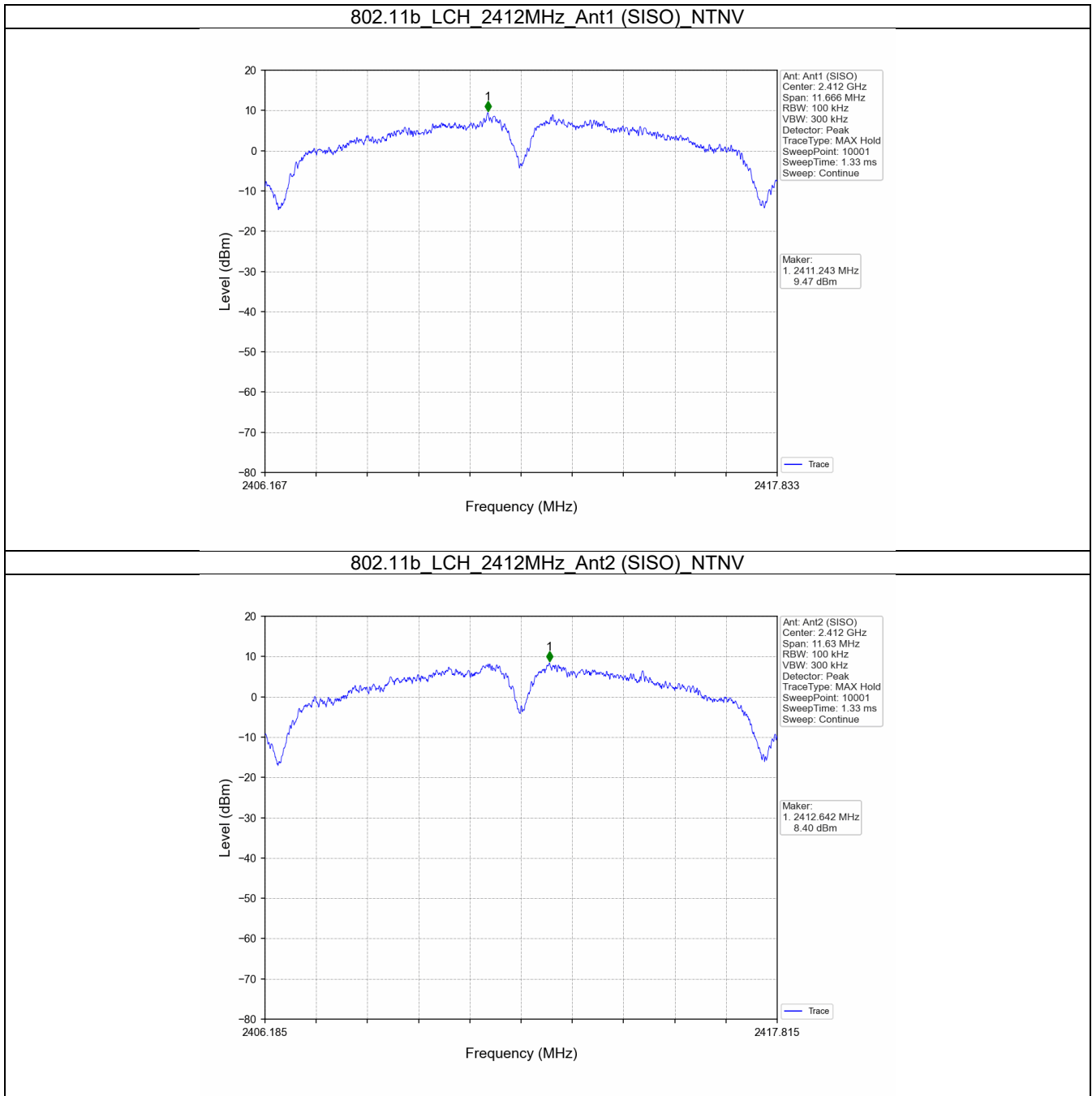
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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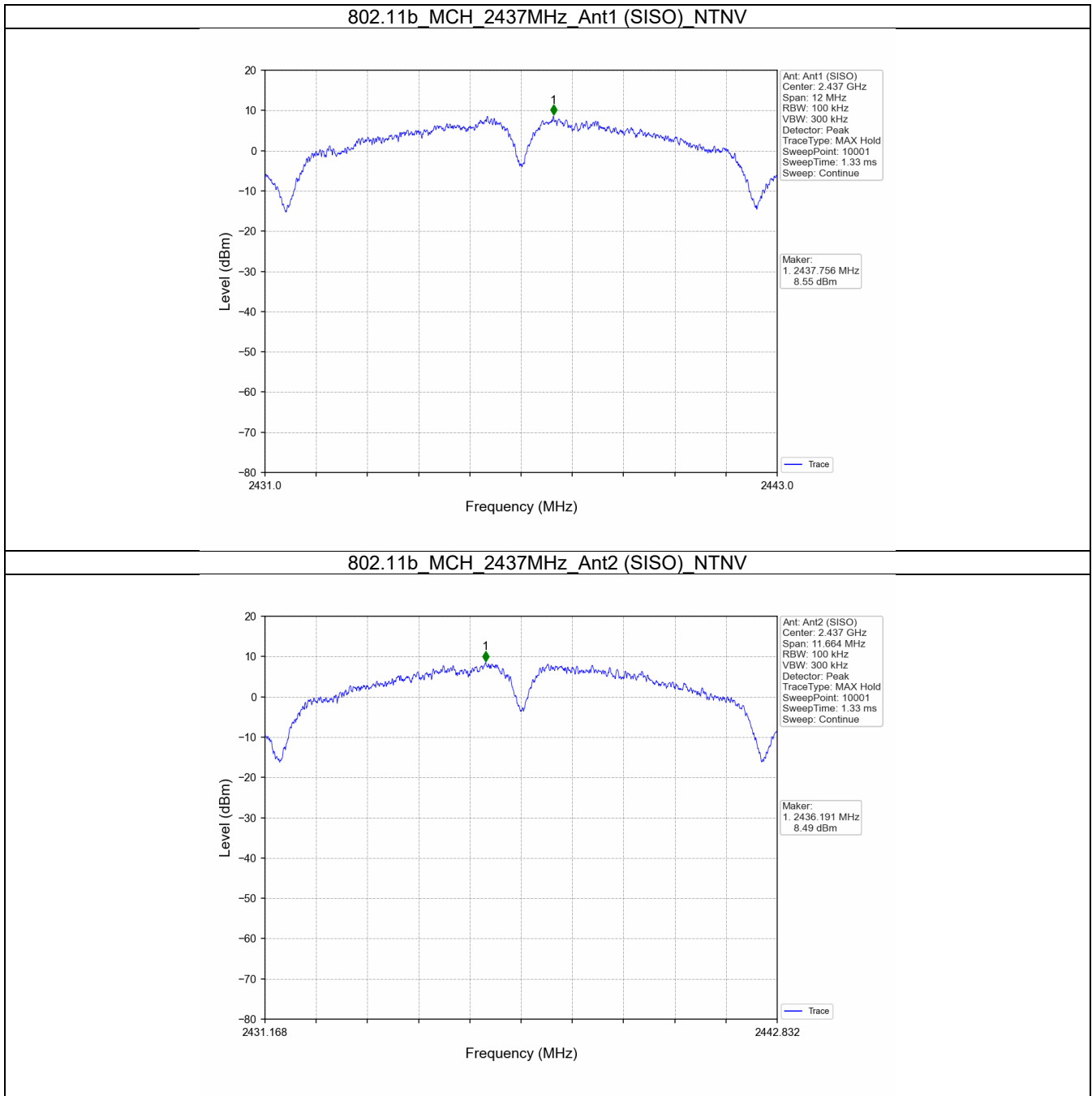
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5.1.2 Test Graph



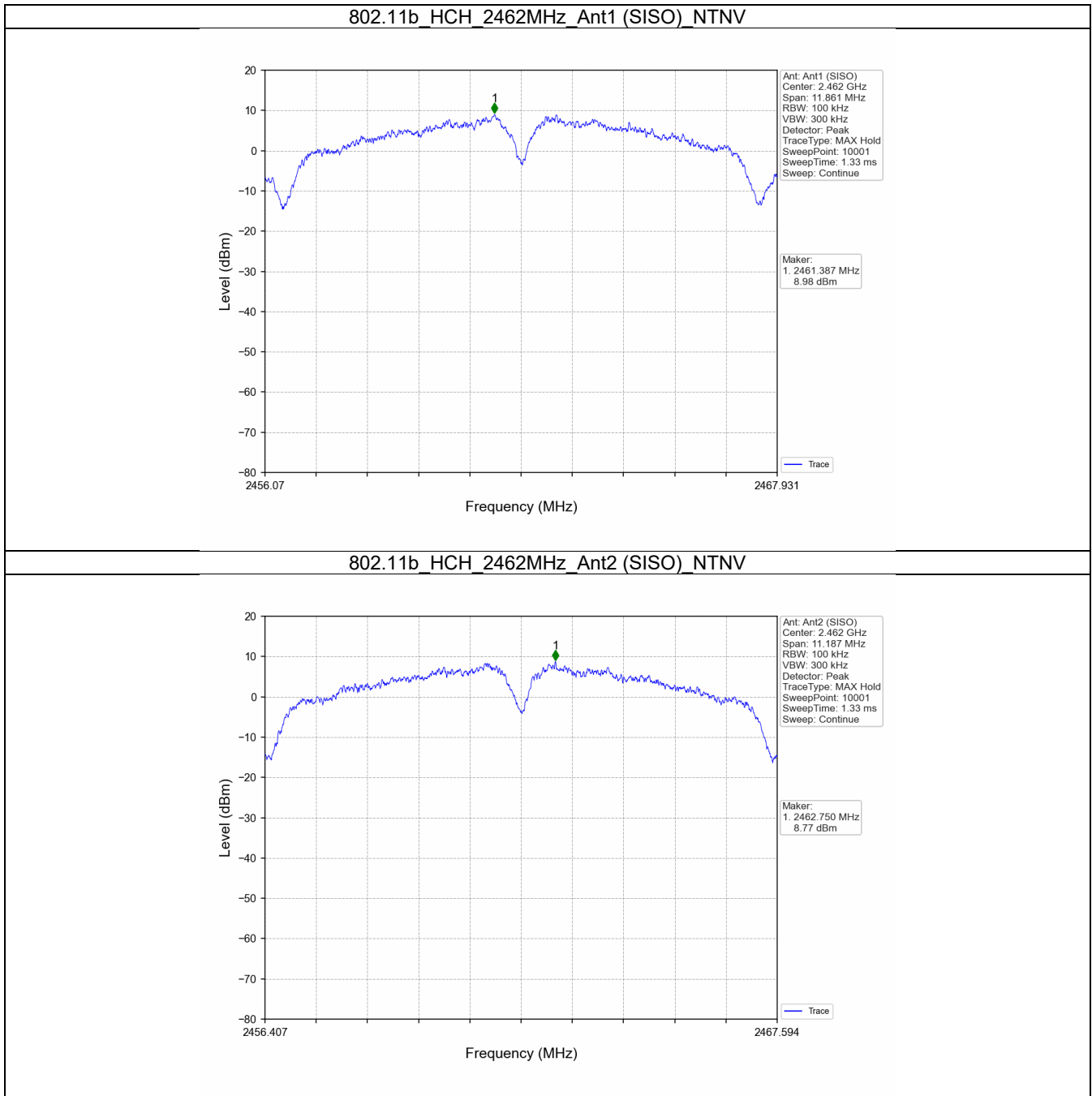
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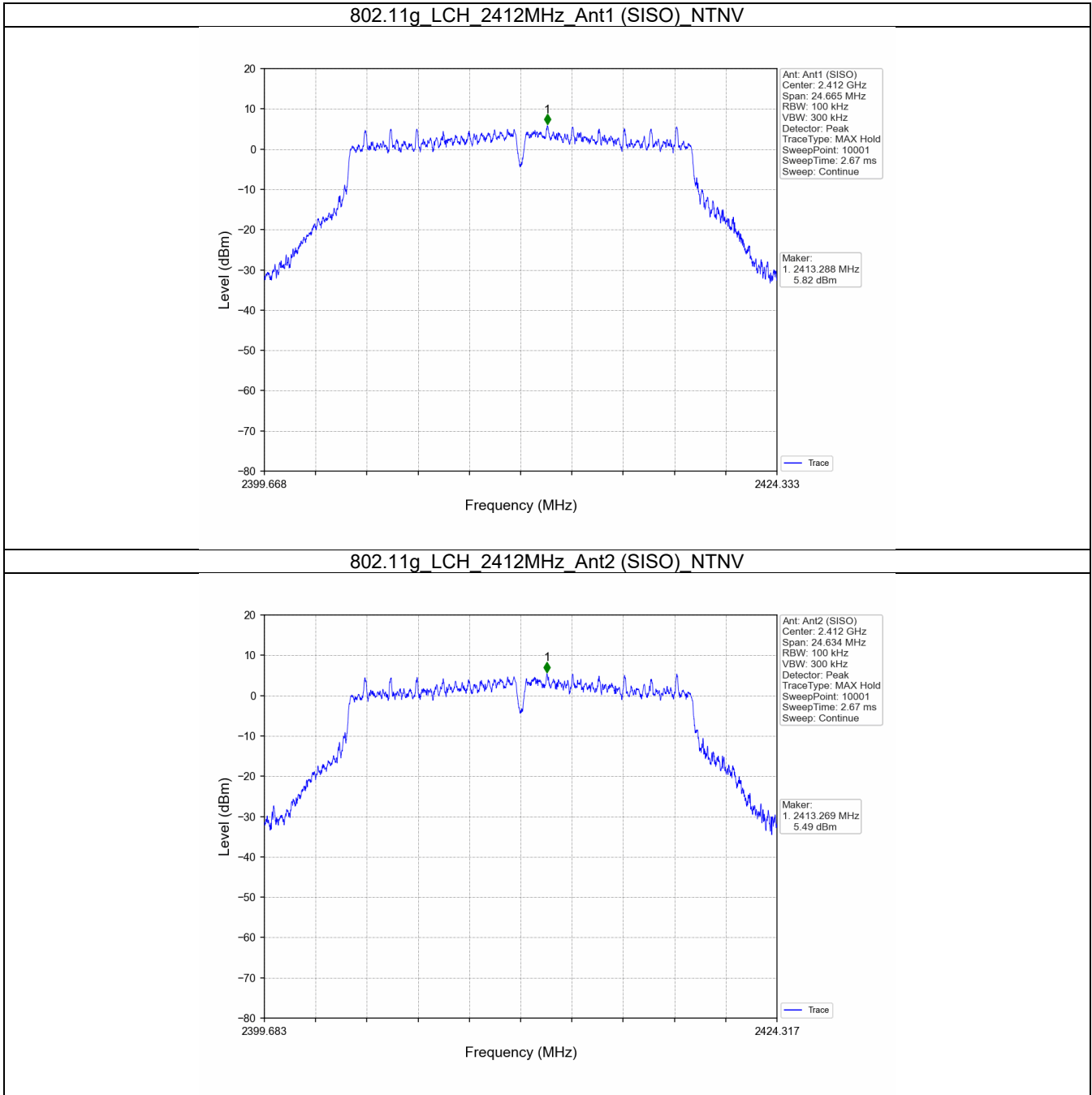
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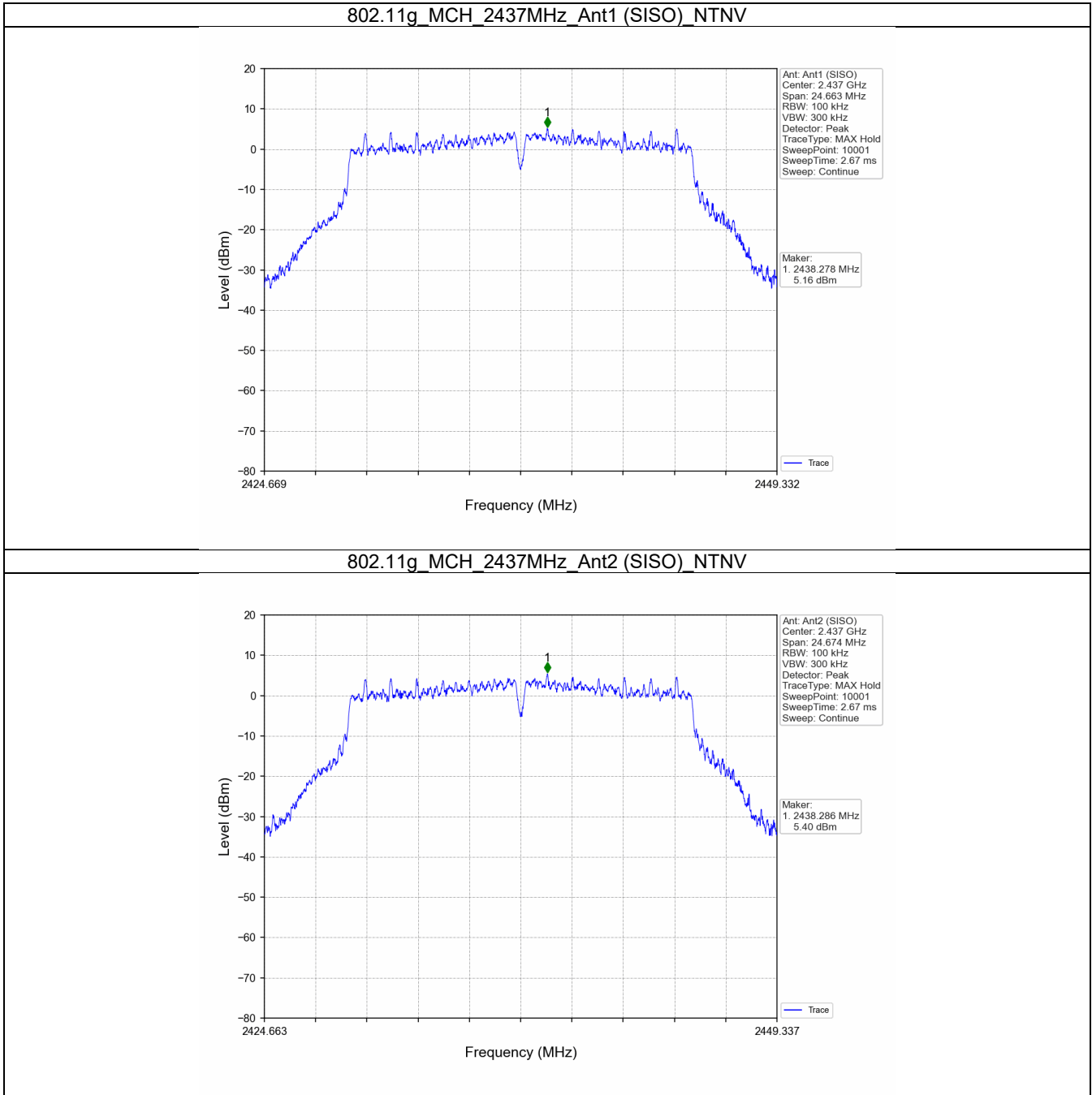
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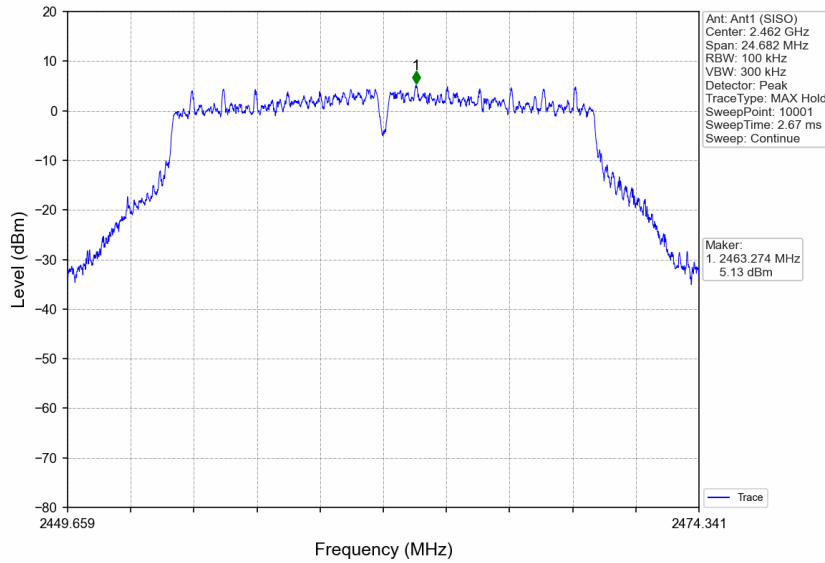
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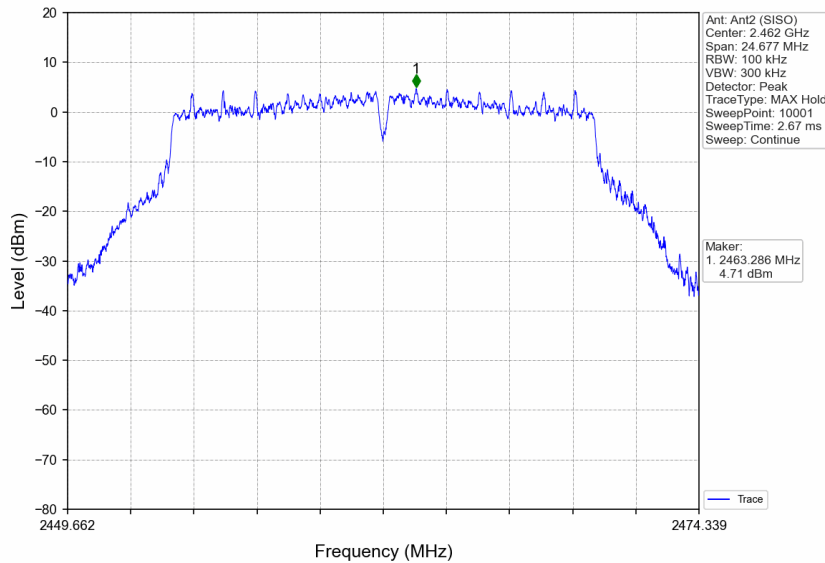
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802.11g_HCH_2462MHz_Ant1 (SISO) NTN



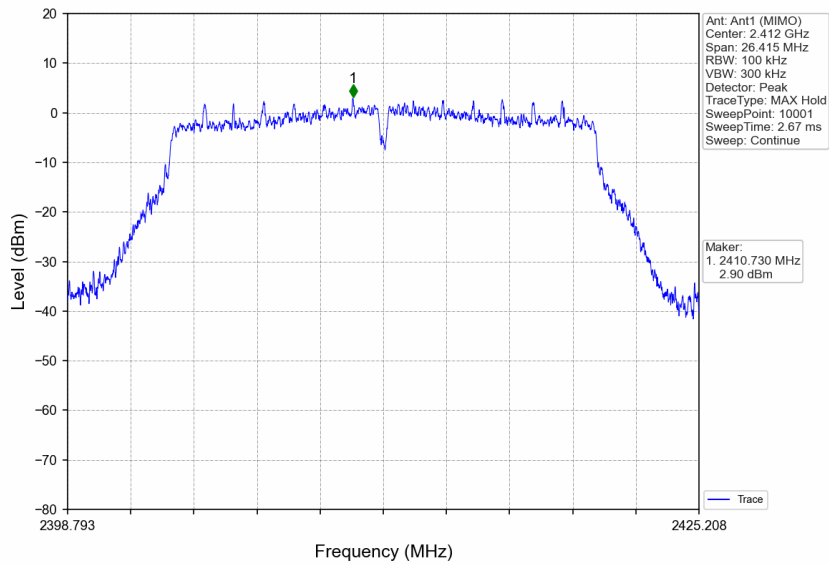
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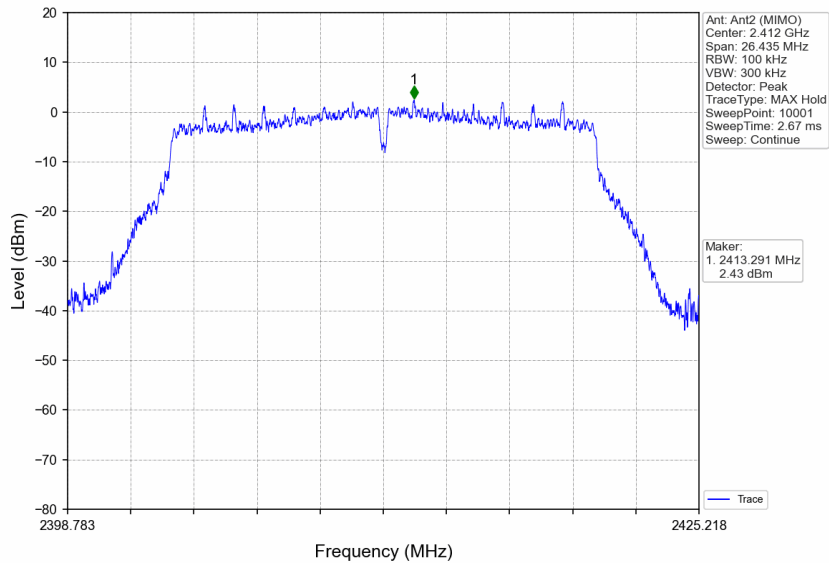
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



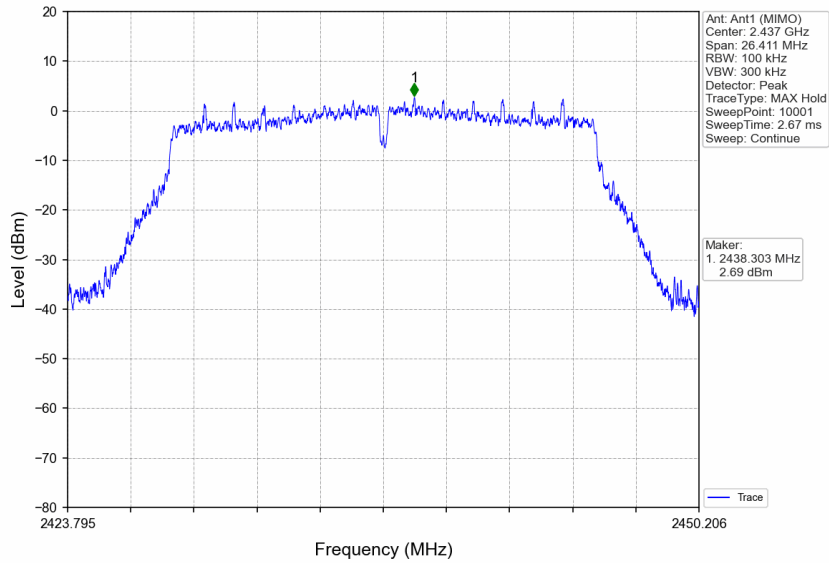
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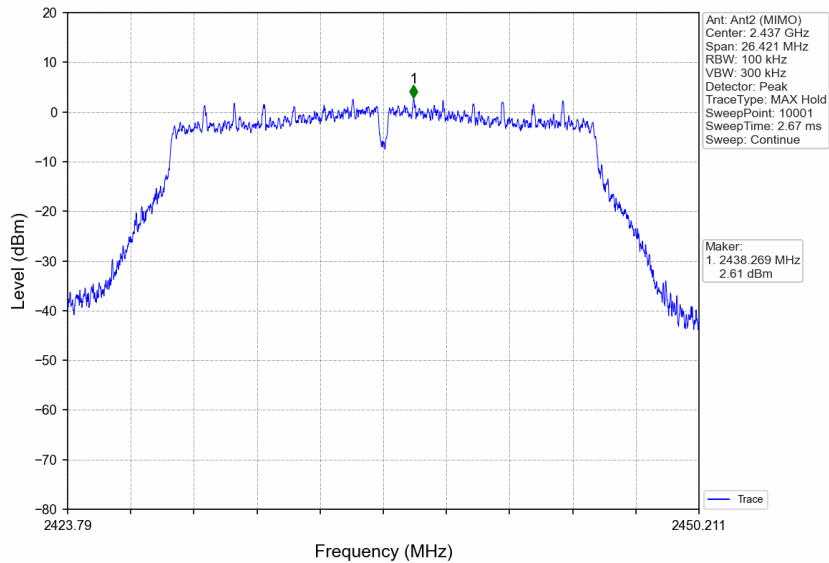
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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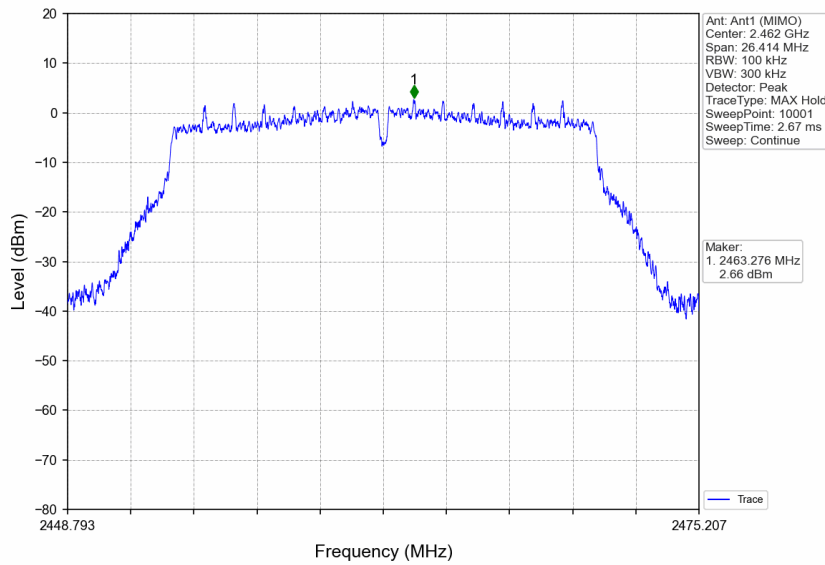
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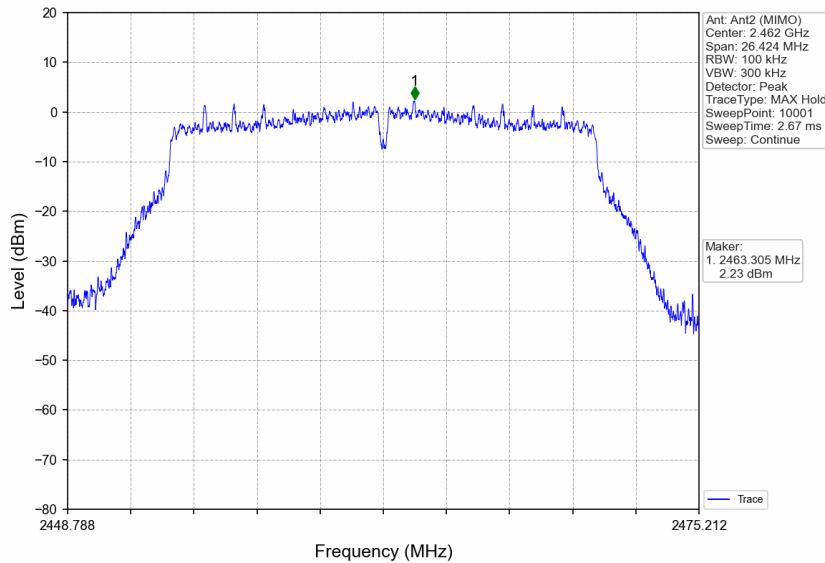
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t(86-21)61915666 f(86-21)61915678 e sgs.china@sgs.com

802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center Electronic Services

NO. 588 West Jindu Road, Songjiang District, Shanghai, China 201612
中国·上海·松江区金都西路588号 邮编: 201612

t(86-21)61915666 f(86-21)61915678 www.sgsgroup.com.cn
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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	9.47	-20.53	Pass
			2	8.77	-21.23	Pass
		2437	1	9.47	-20.53	Pass
			2	8.77	-21.23	Pass
		2462	1	9.47	-20.53	Pass
			2	8.77	-21.23	Pass
802.11g	SISO	2412	1	5.82	-24.18	Pass
			2	5.49	-24.51	Pass
		2437	1	5.82	-24.18	Pass
			2	5.49	-24.51	Pass
		2462	1	5.82	-24.18	Pass
			2	5.49	-24.51	Pass
802.11n (HT20)	MIMO	2412	1	2.90	-27.10	Pass
			2	2.61	-27.39	Pass
		2437	1	2.90	-27.10	Pass
			2	2.61	-27.39	Pass
		2462	1	2.90	-27.10	Pass
			2	2.61	-27.39	Pass

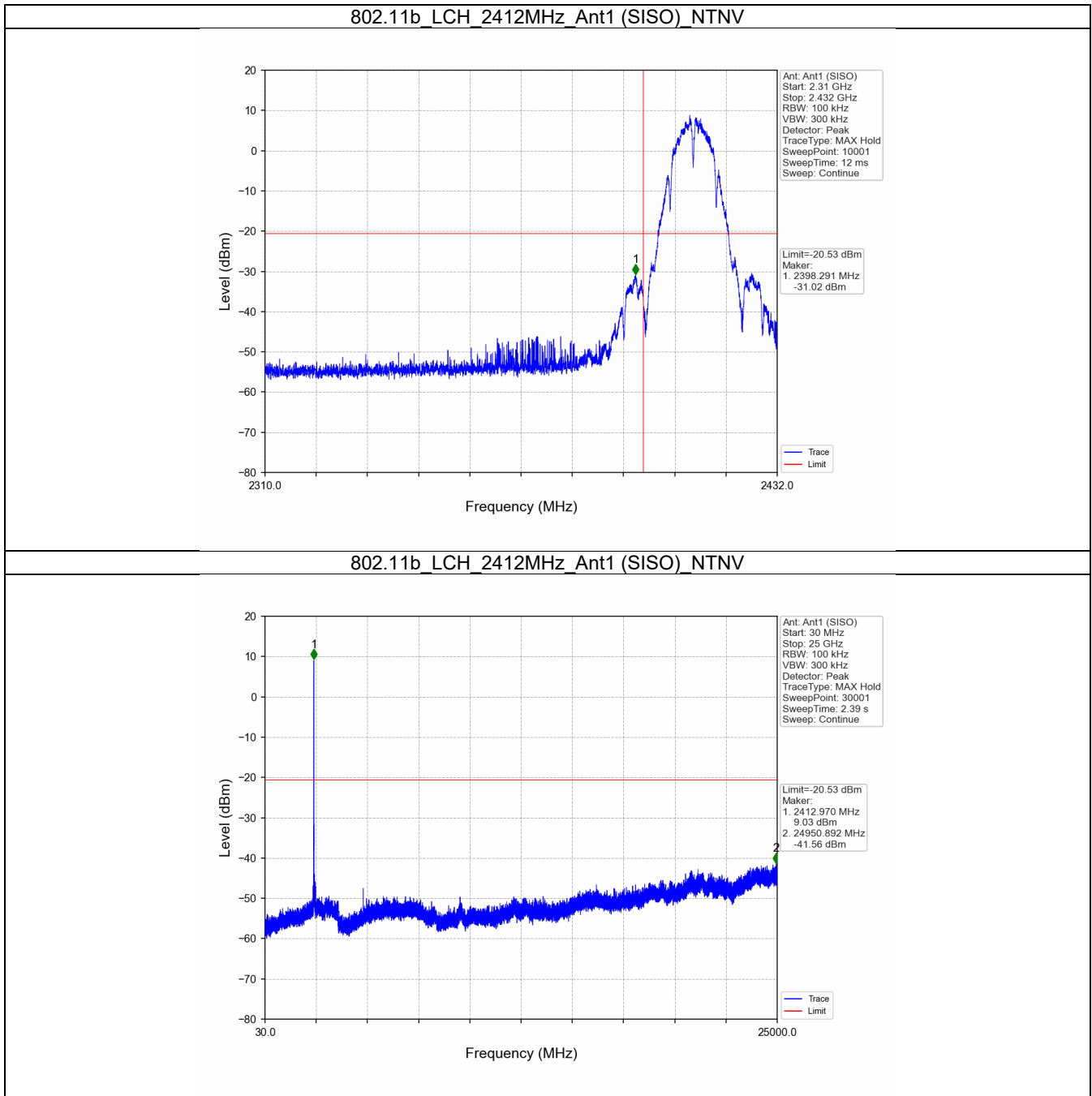
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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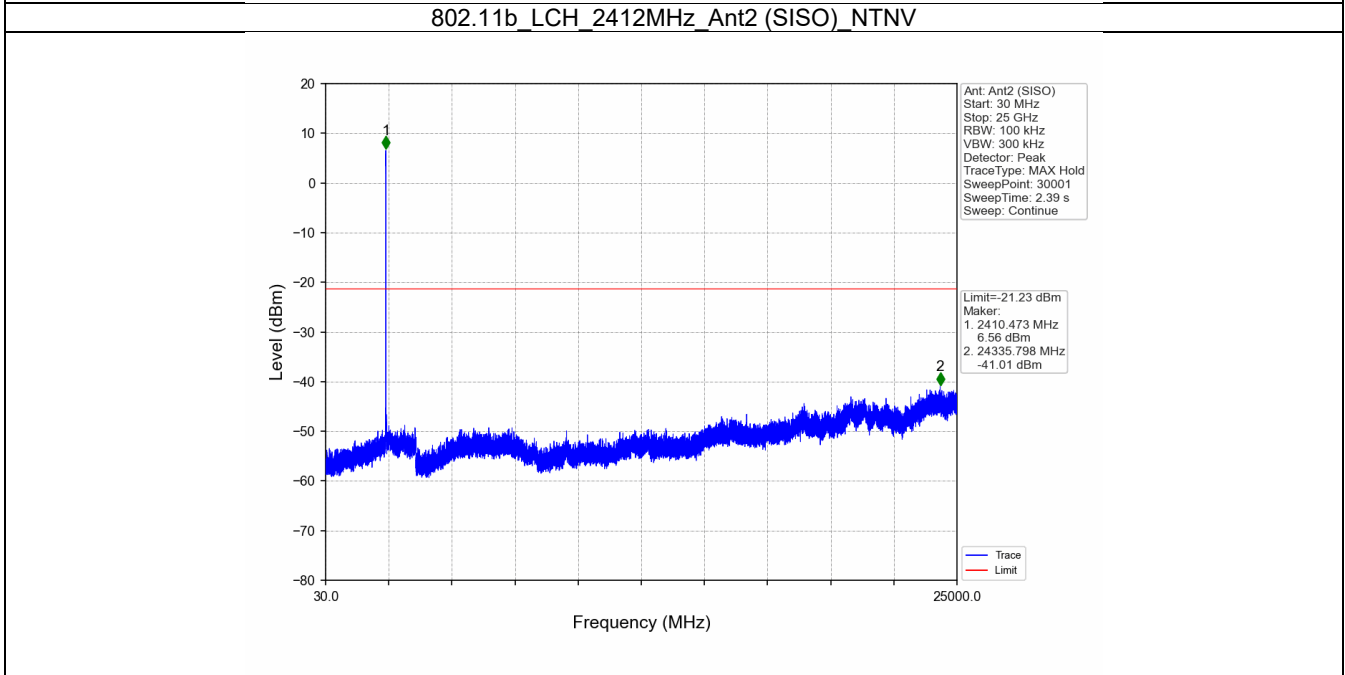
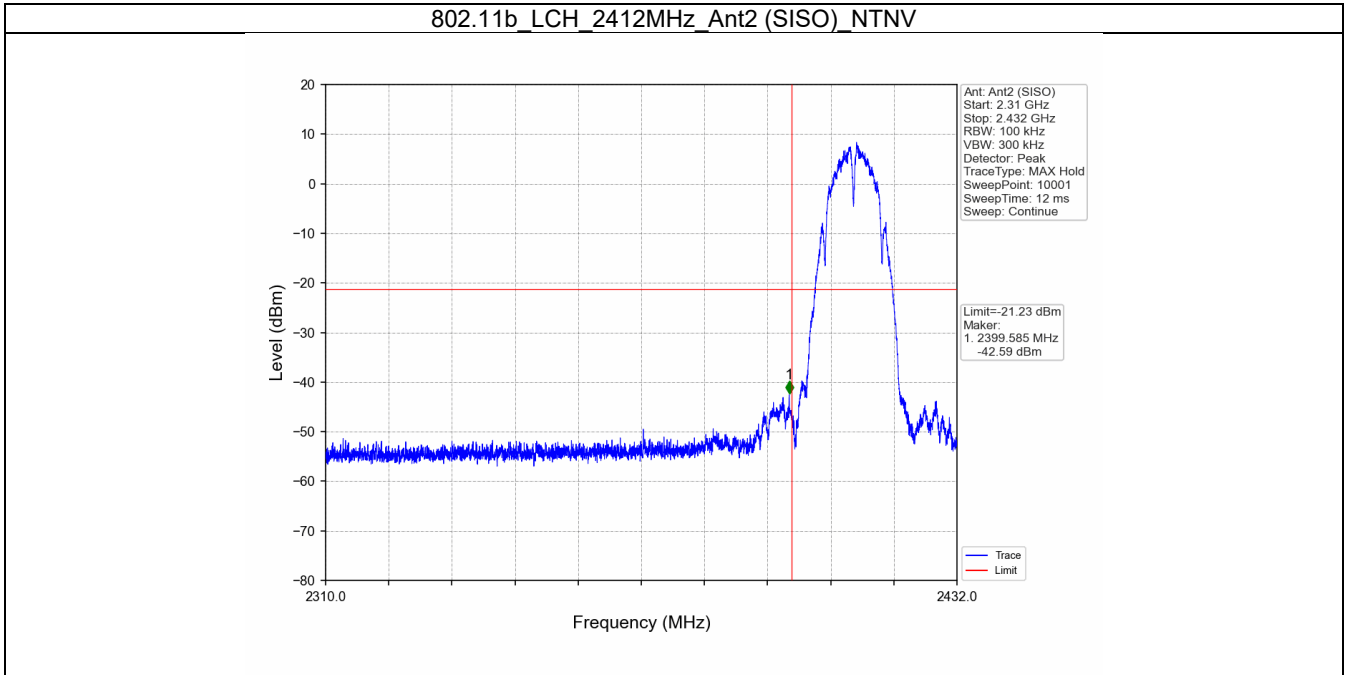
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5.2.2 Test Graph



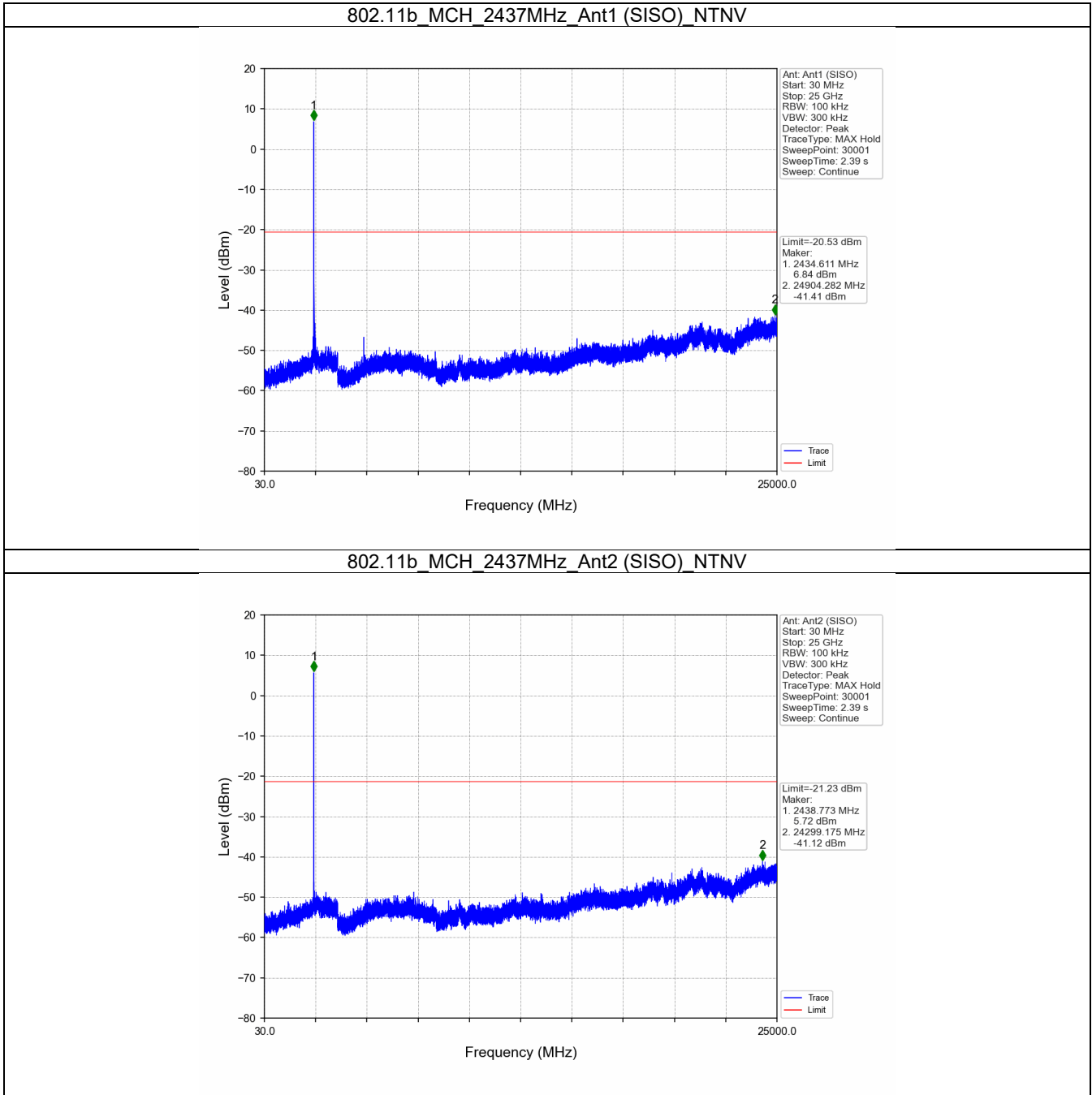
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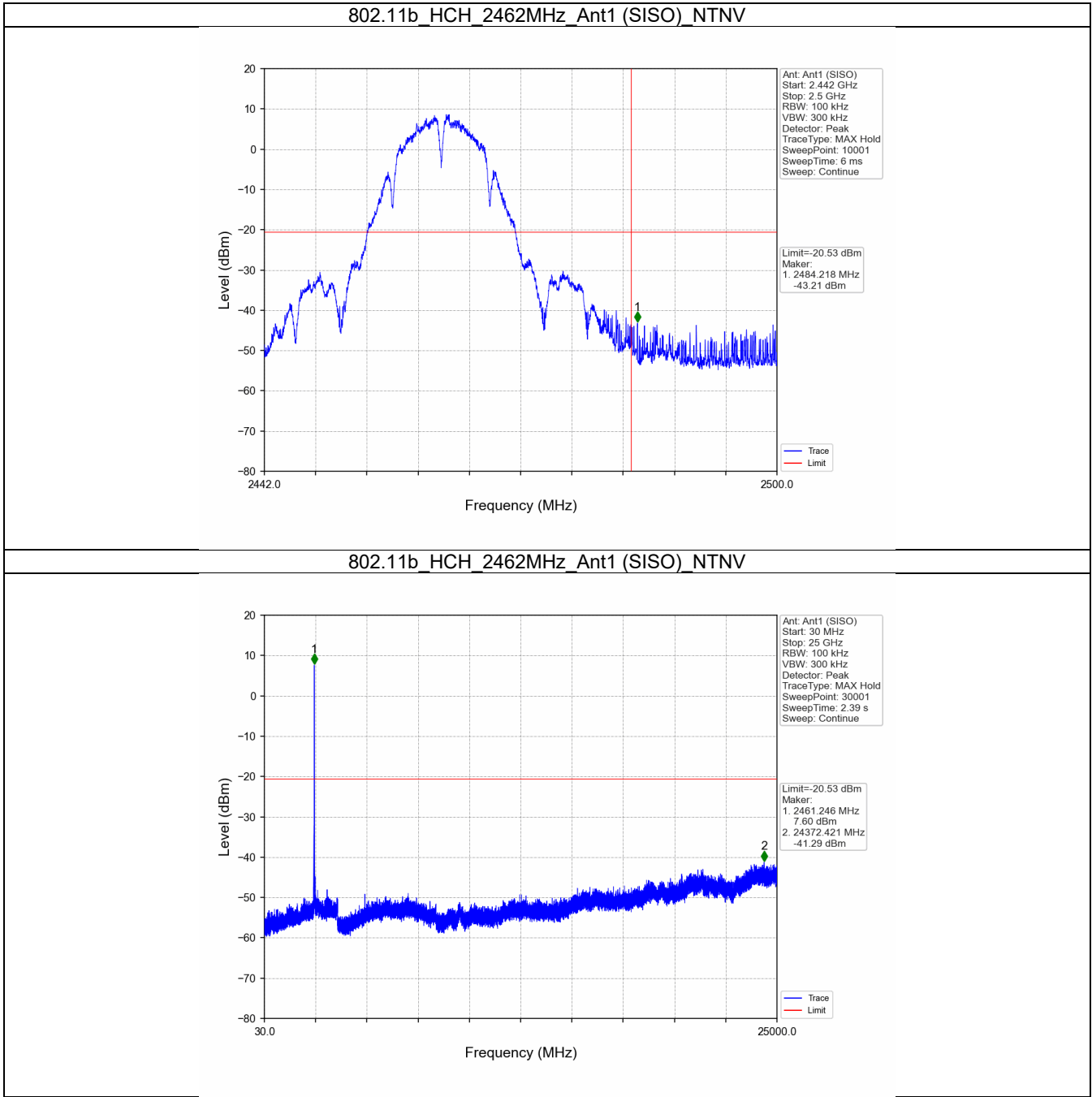
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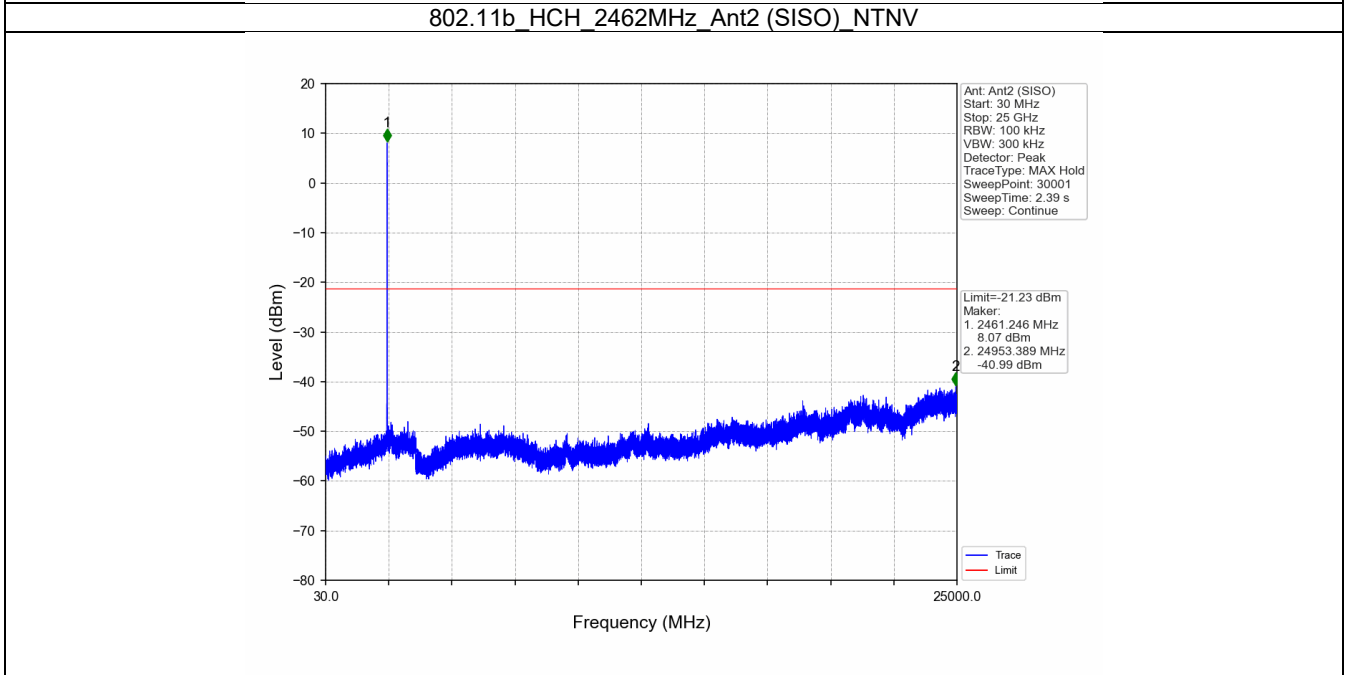
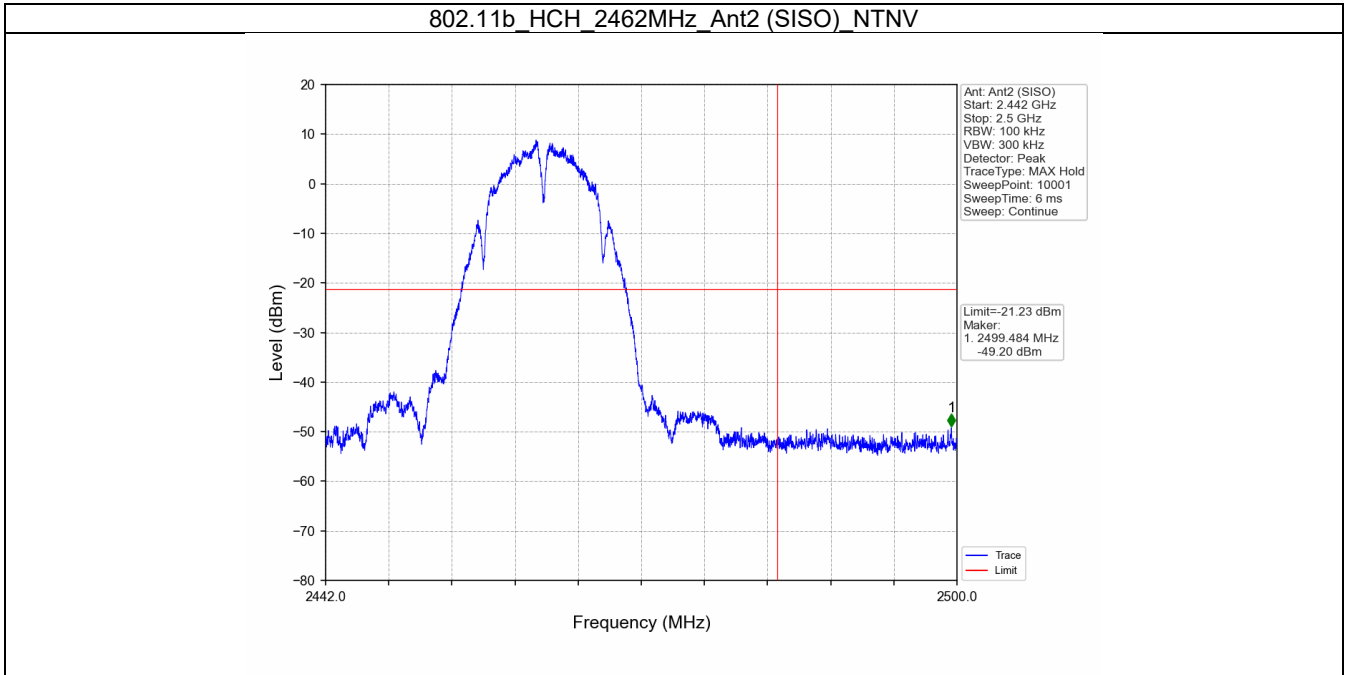
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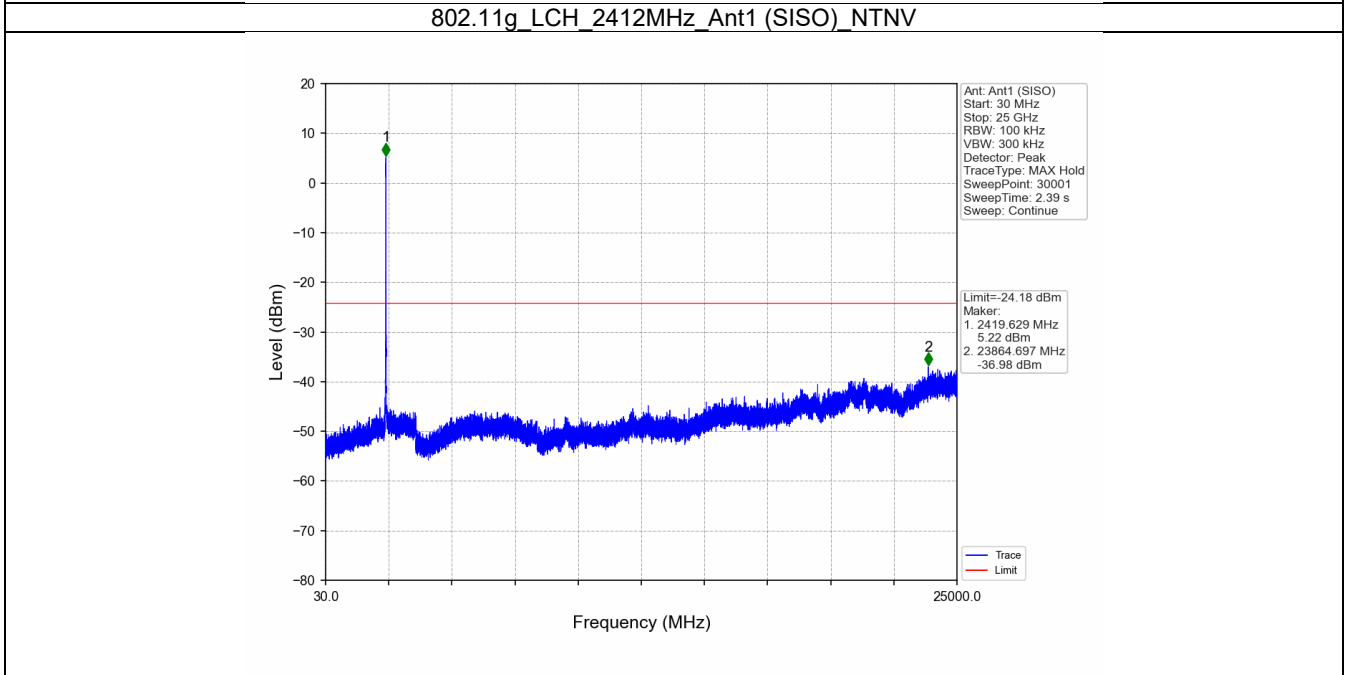
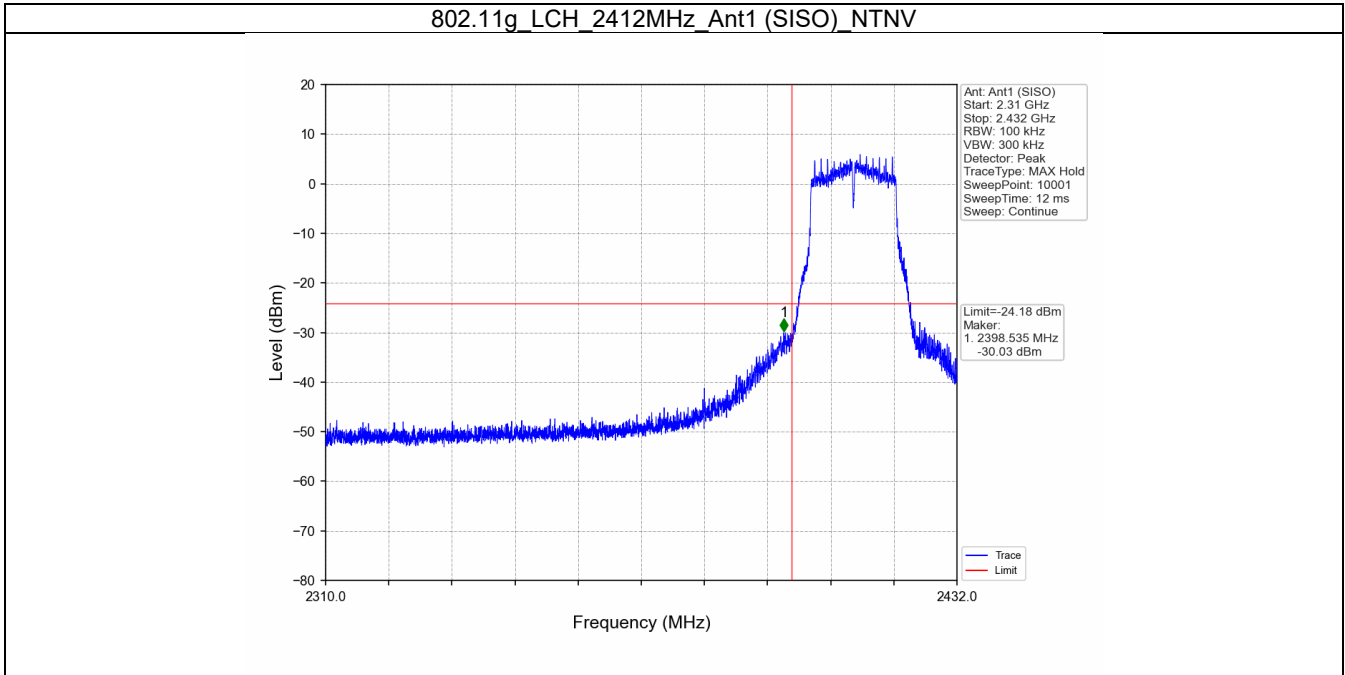
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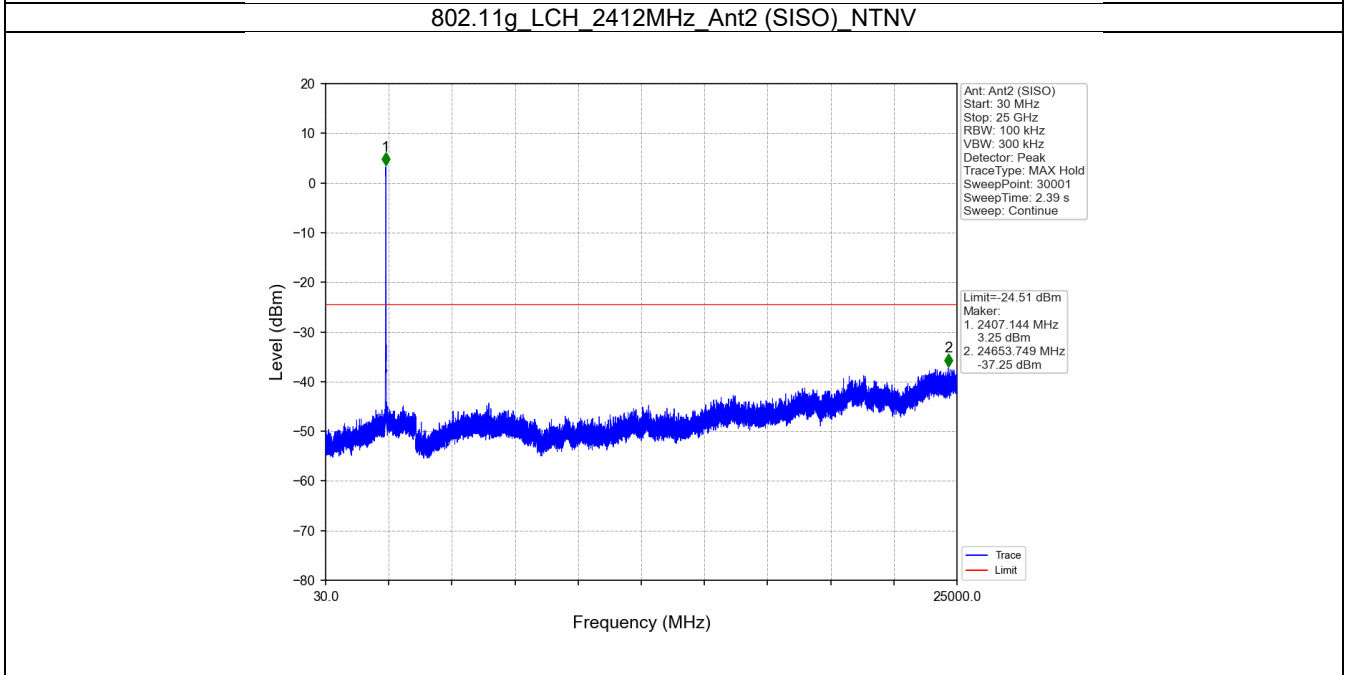
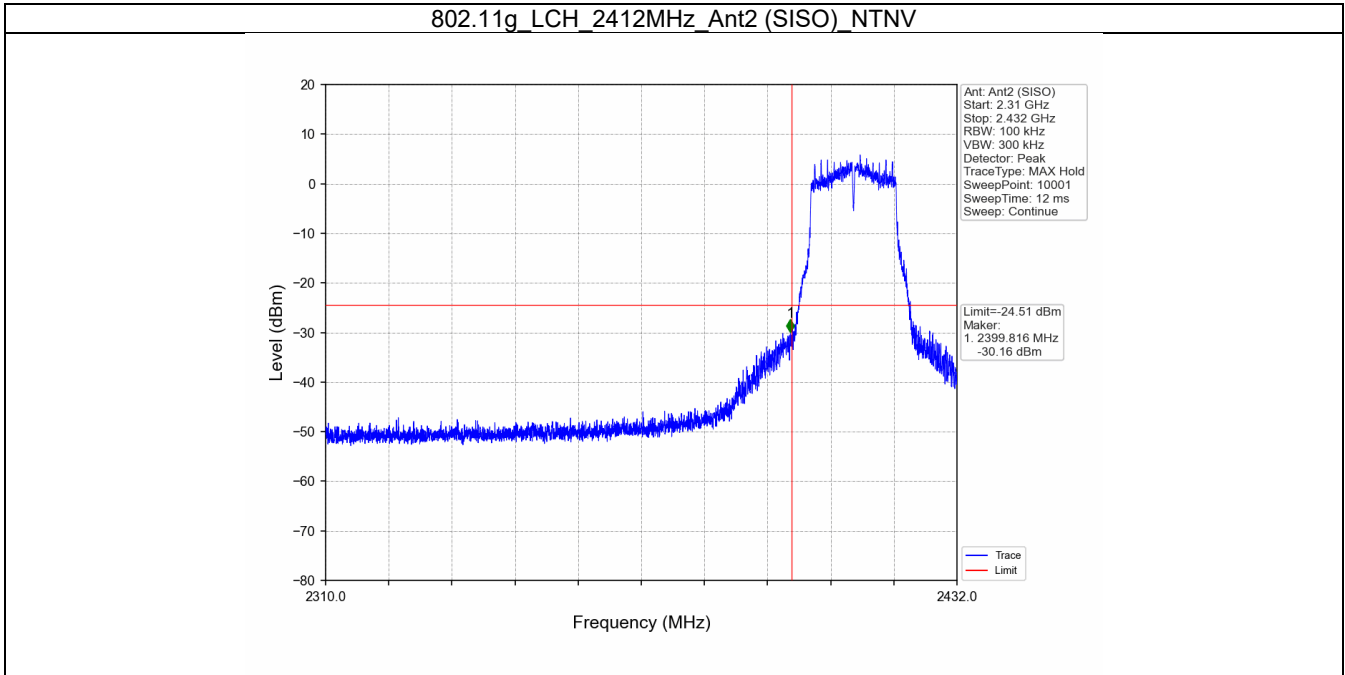
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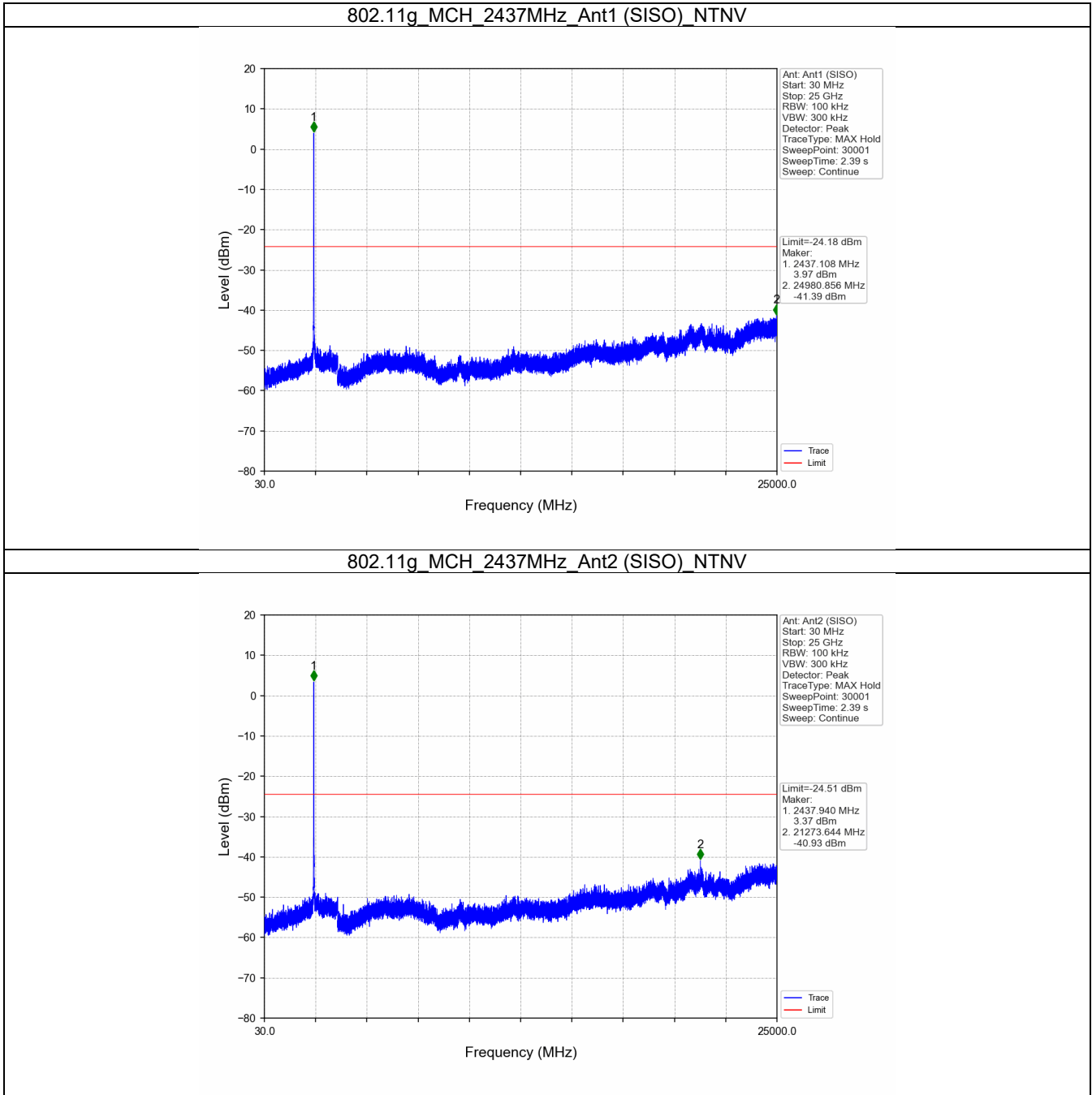
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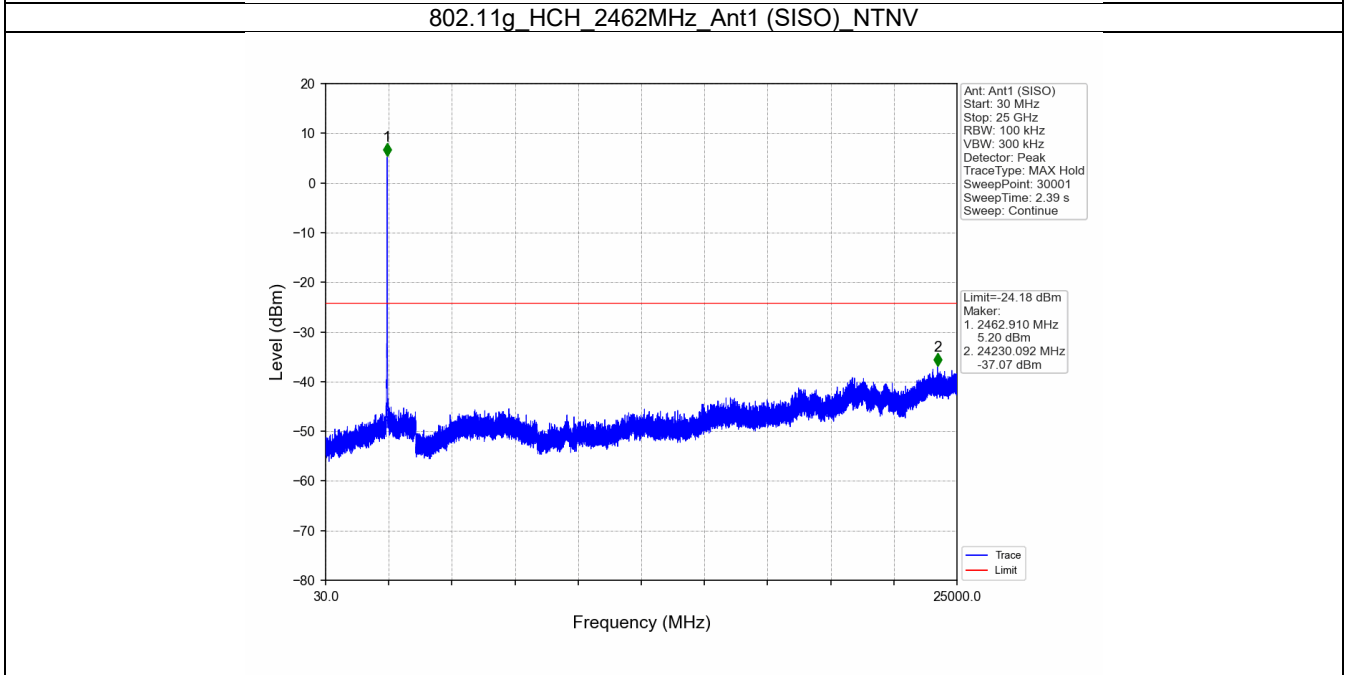
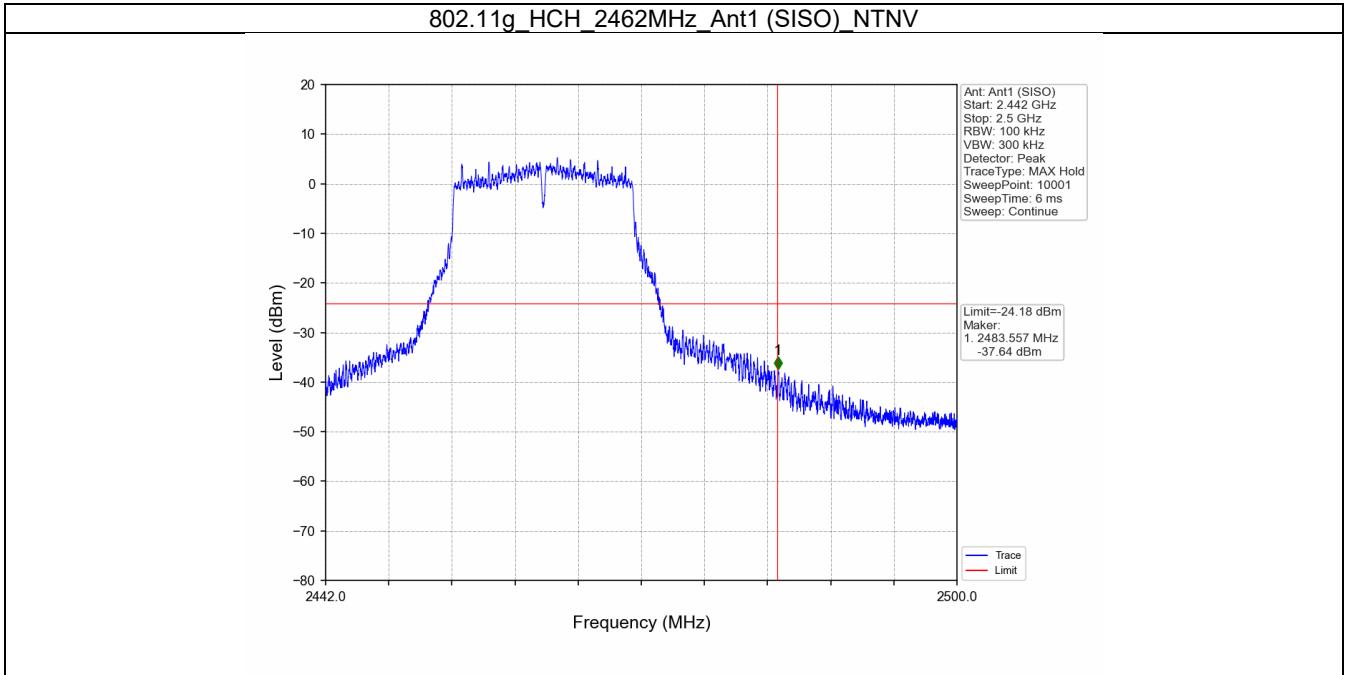
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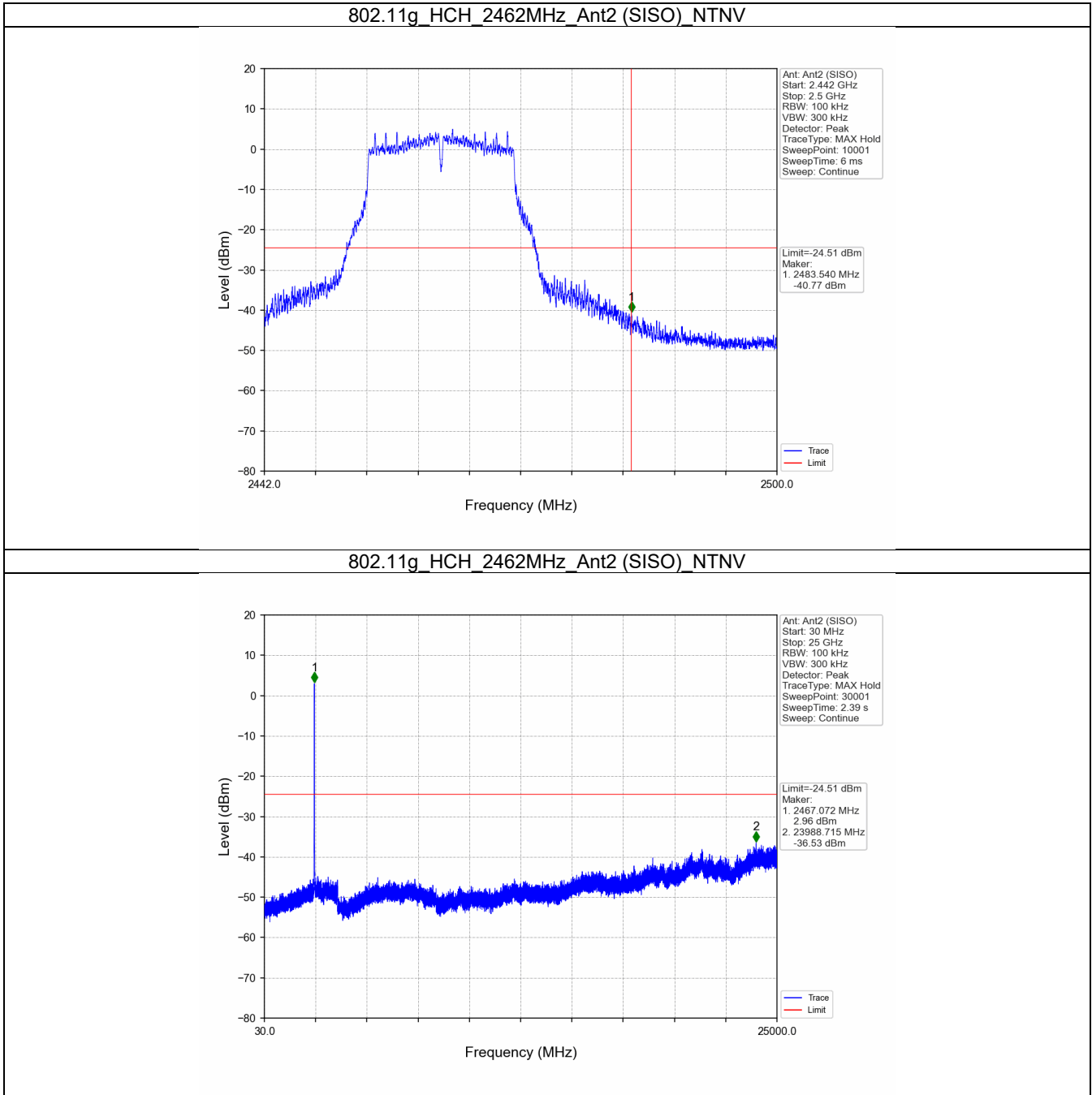
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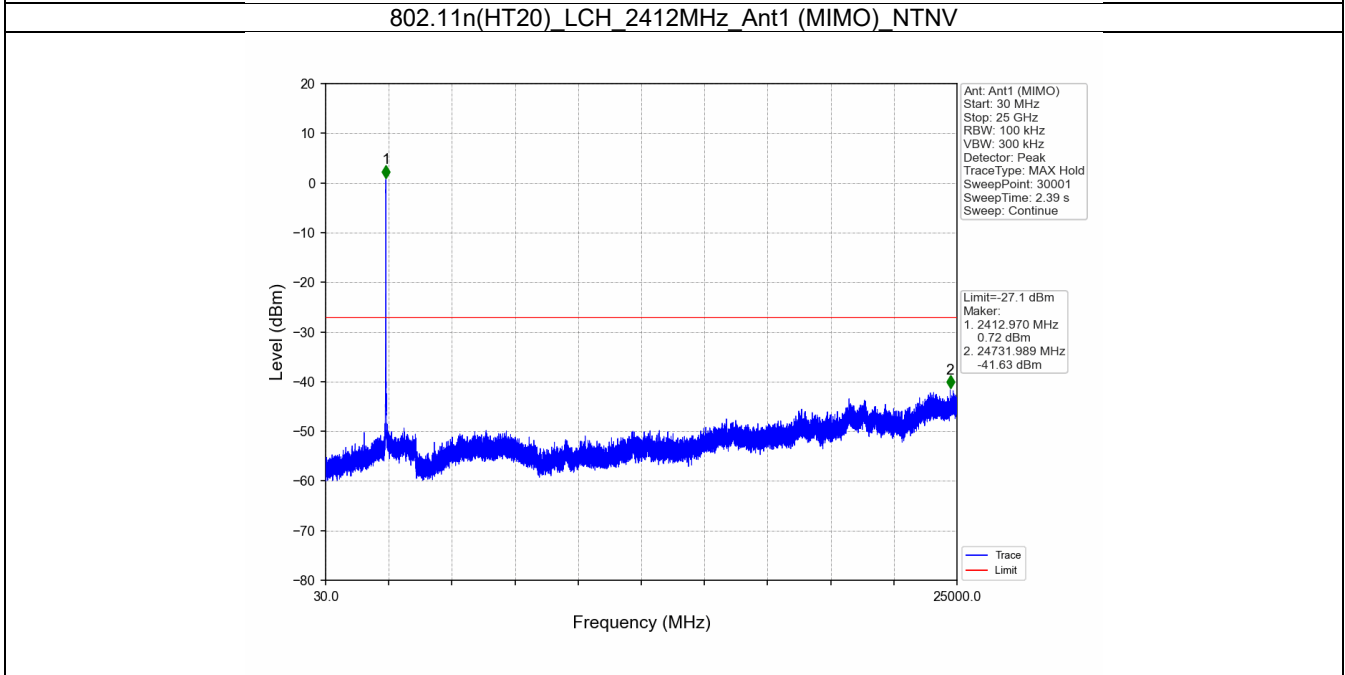
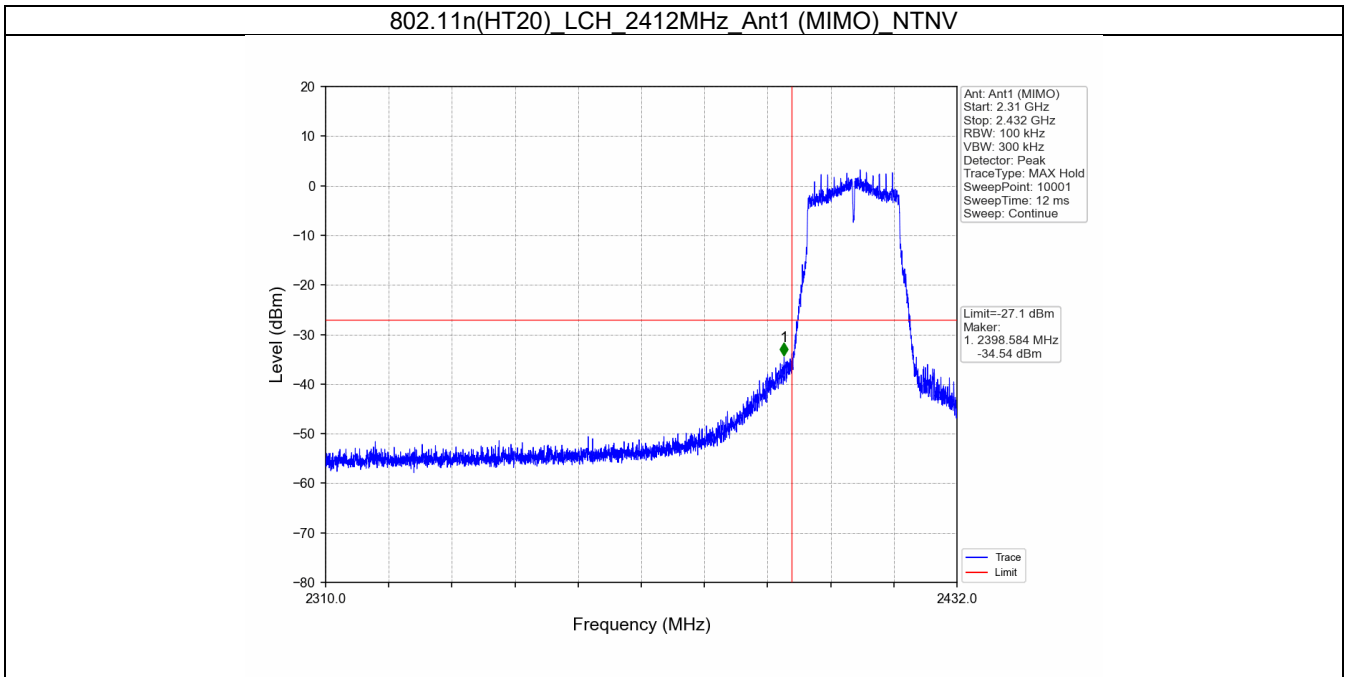
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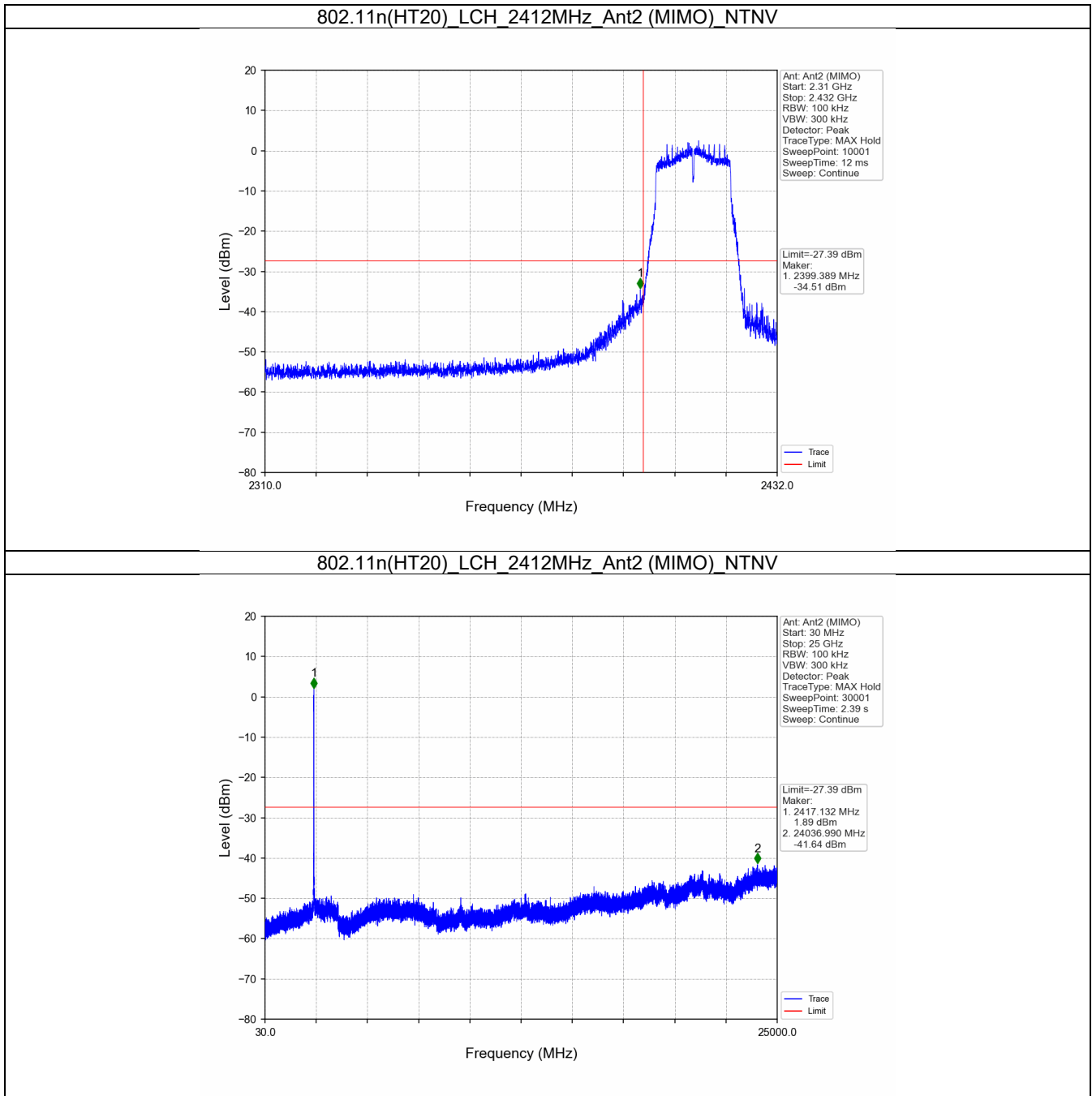
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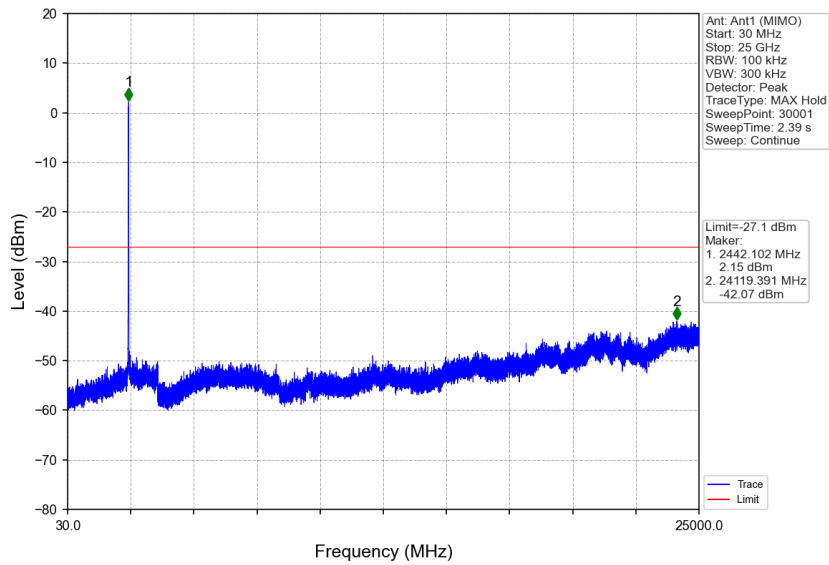
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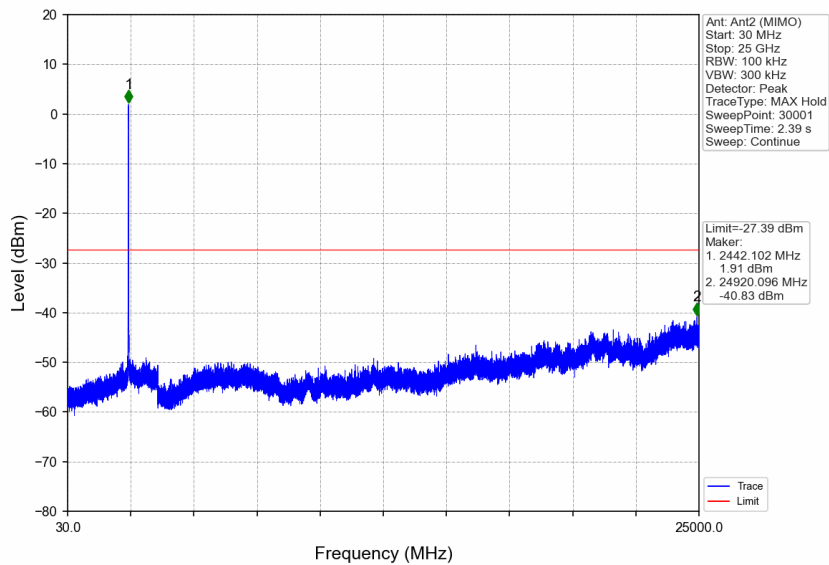
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV

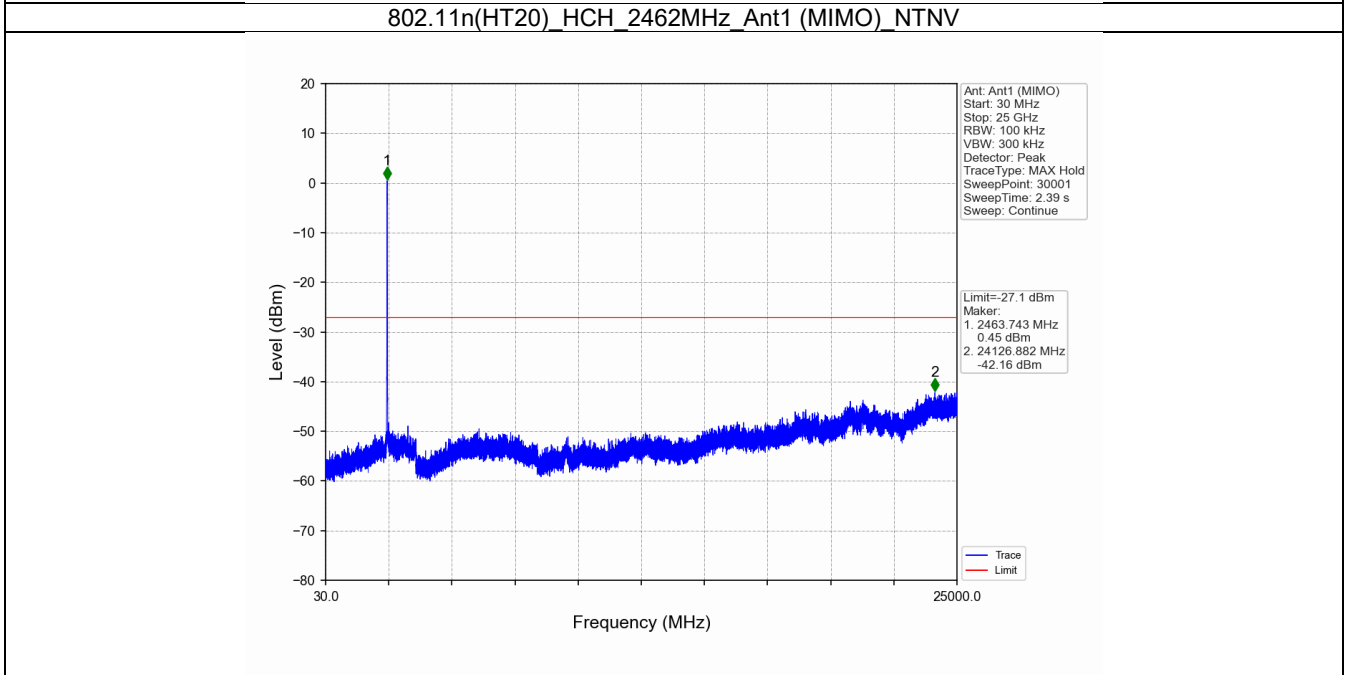


802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



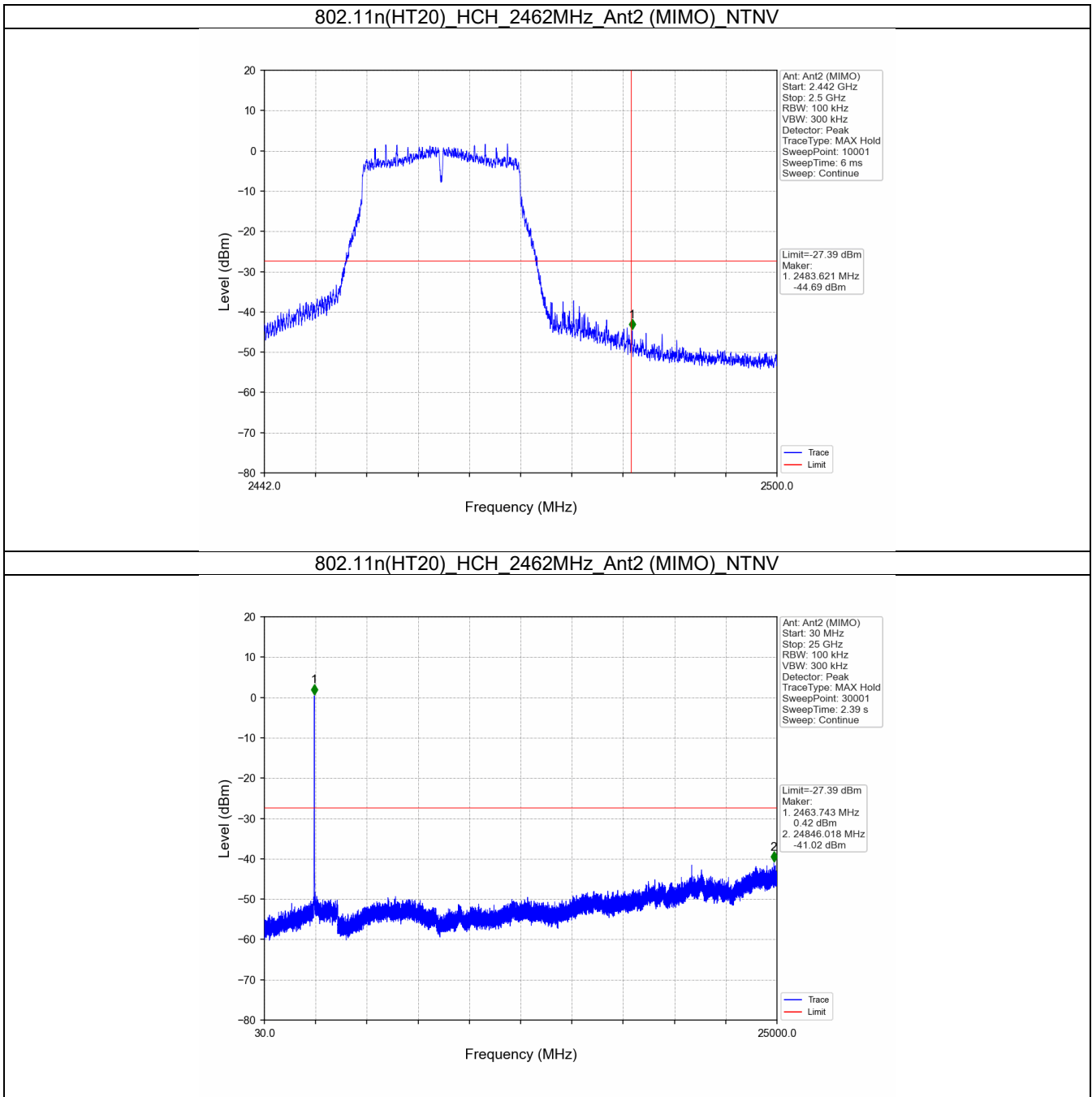
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