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Appendix A for SHEM210200133901

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
Mode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
	2412	100.000	100.000	100.00	0.00	0.00	
802.11b	SISO	2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
		2412	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n		2412	100.000	100.000	100.00	0.00	0.00
(HT20)	SISO	2437	100.000	100.000	100.00	0.00	0.00
(1120)		2462	100.000	100.000	100.00	0.00	0.00
902 11n	SISO	2422	100.000	100.000	100.00	0.00	0.00
802.11n		2437	100.000	100.000	100.00	0.00	0.00
(HT40)		2452	100.000	100.000	100.00	0.00	0.00



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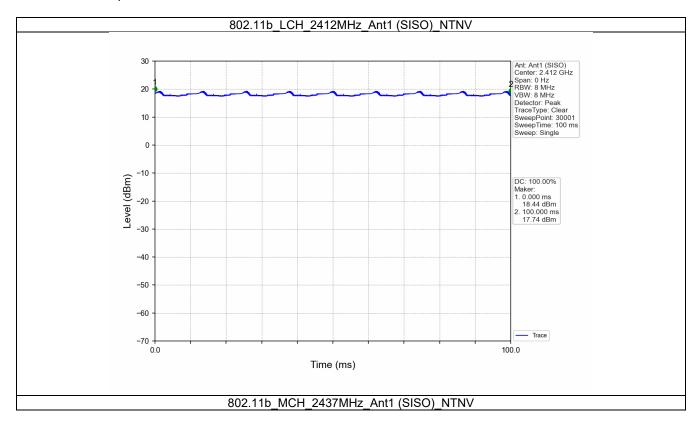
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1.1.2 Test Graph





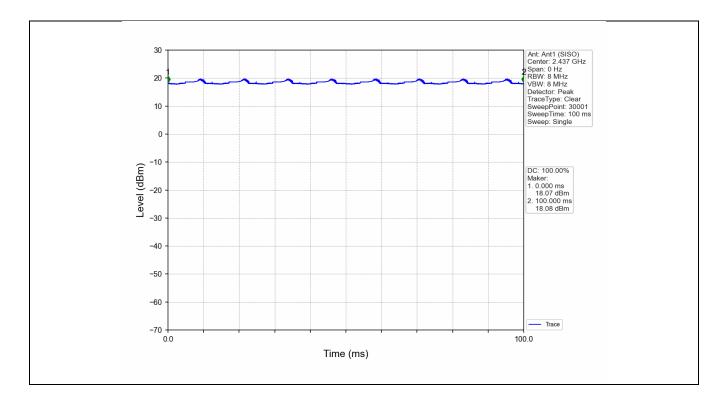
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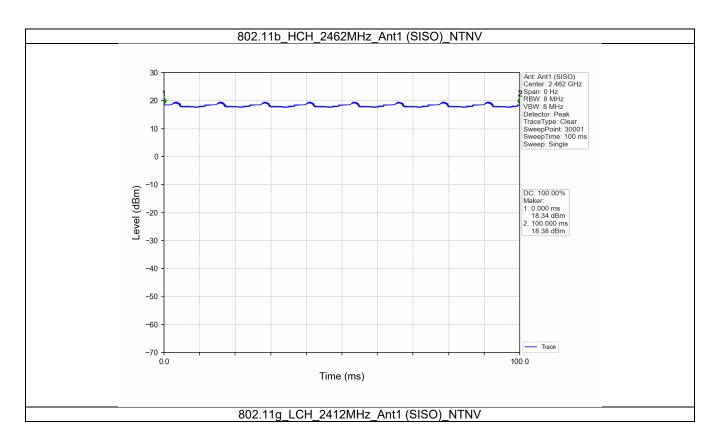
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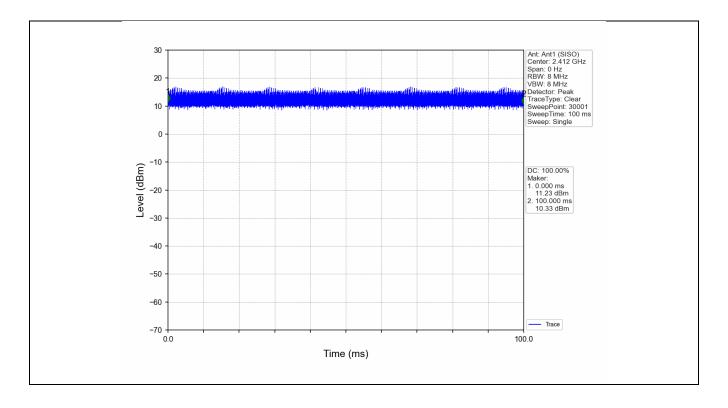
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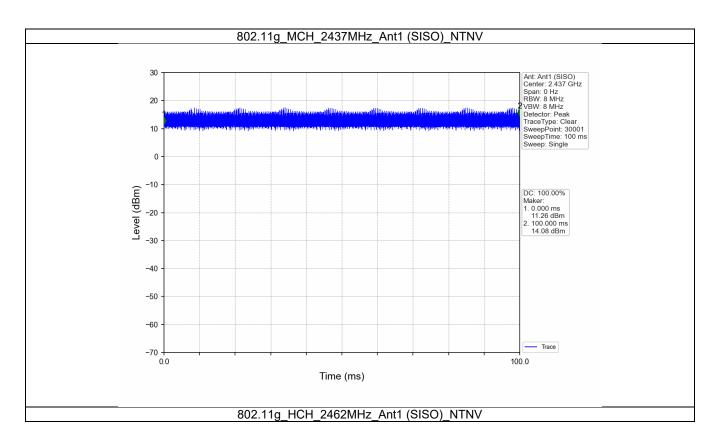
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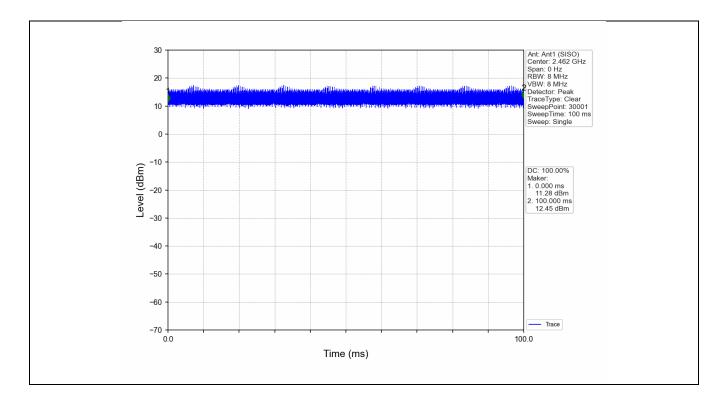
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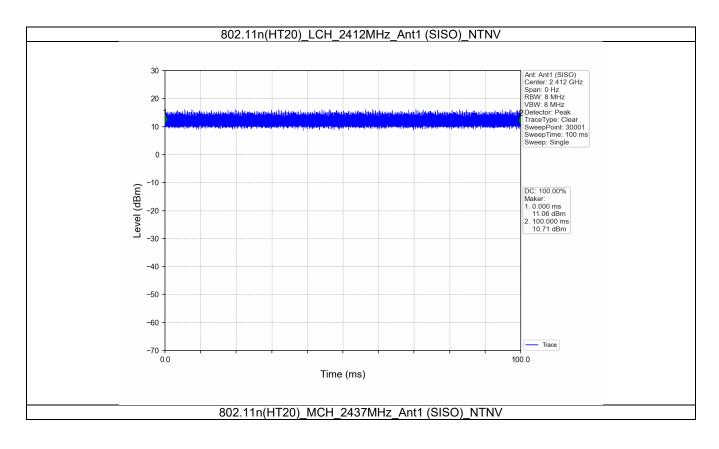
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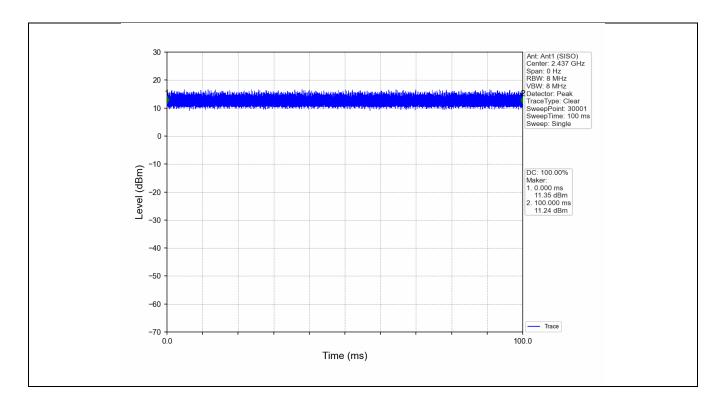
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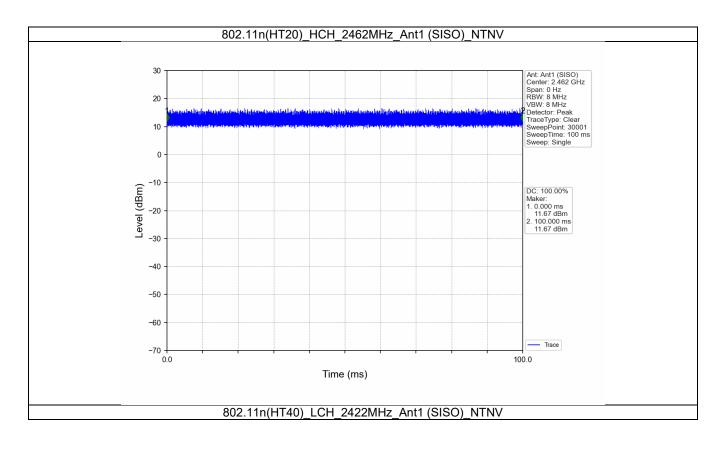
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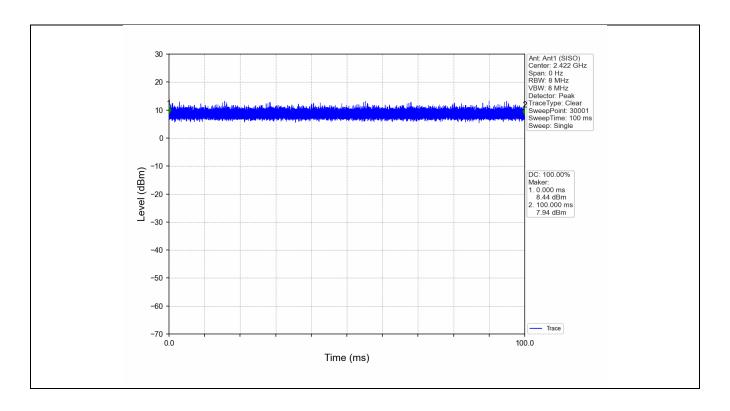
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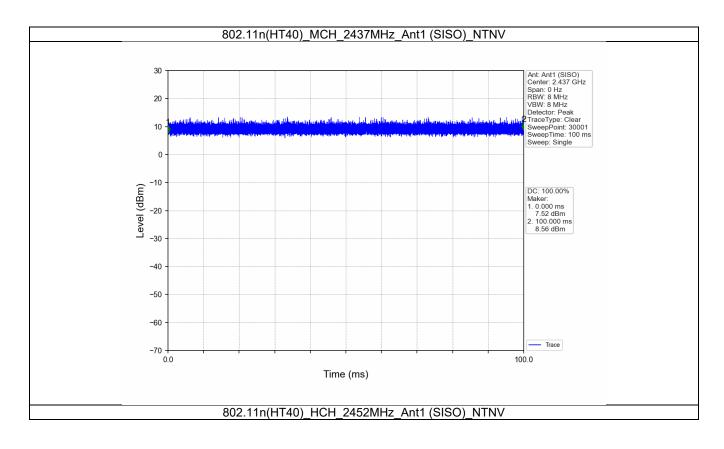
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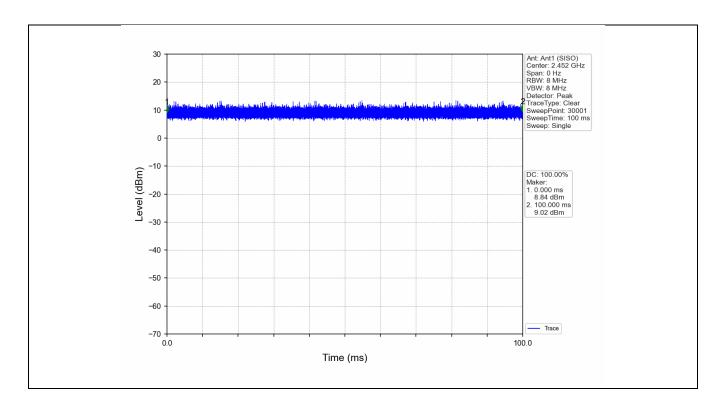
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency	Ant	99% Occupied Bandwidth (MHz)	Vardiet
iviode	Type	(MHz) Ant		Result	Verdict
		2412	1	14.687	Pass
802.11b	SISO	2437	1	14.737	Pass
		2462	1	14.764	Pass
	SISO	2412	1	17.688	Pass
802.11g		2437	1	17.708	Pass
		2462	1	17.732	Pass
802.11n	SISO	2412	1	18.551	Pass
~ ~		2437	1	18.577	Pass
(HT20)		2462	1	18.585	Pass
000 11n		2422	1	36.002	Pass
802.11n (HT40)	SISO	2437	1	35.979	Pass
		2452	1	35.980	Pass

2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



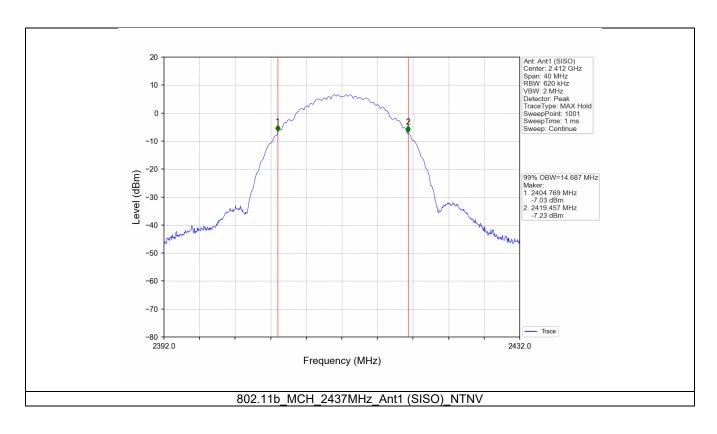
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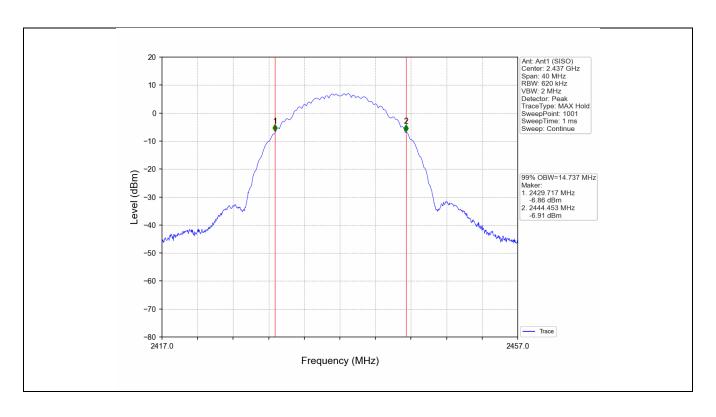
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



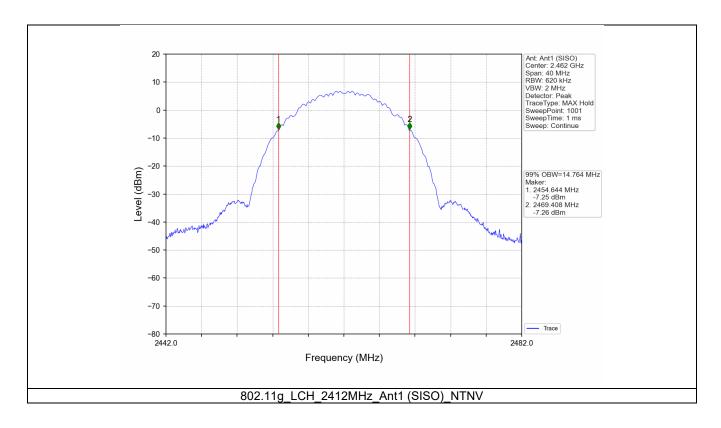
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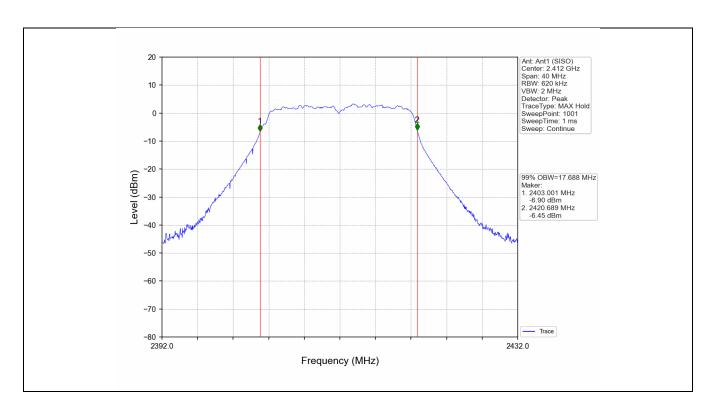
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802.11g MCH 2437MHz Ant1 (SISO) NTNV



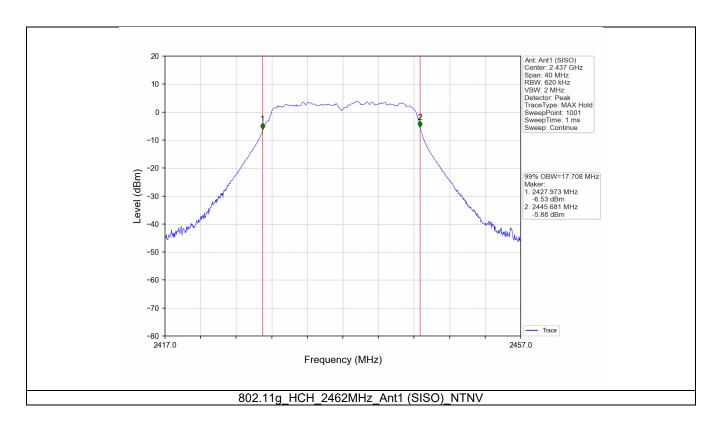
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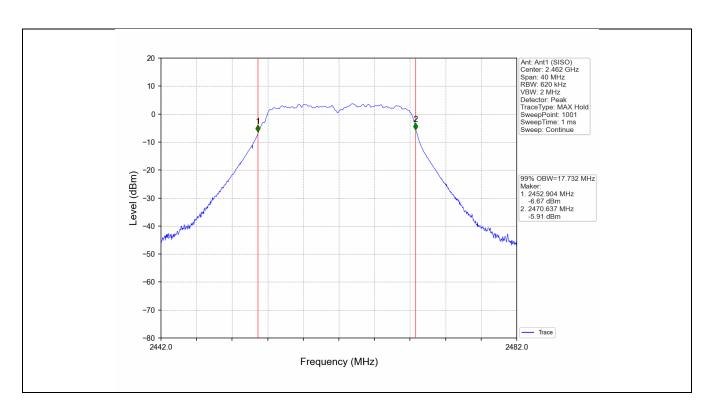
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



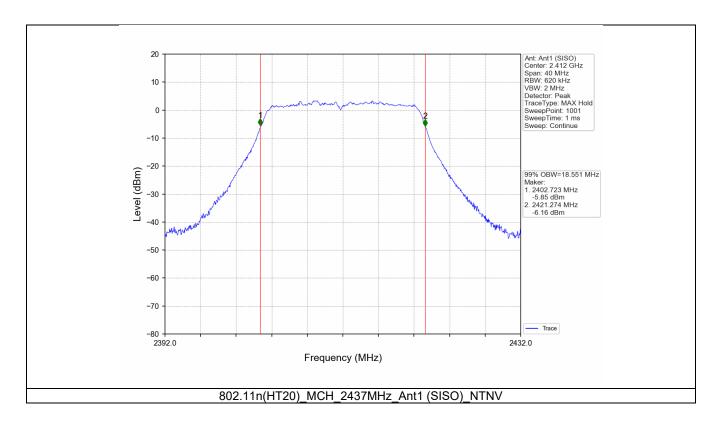
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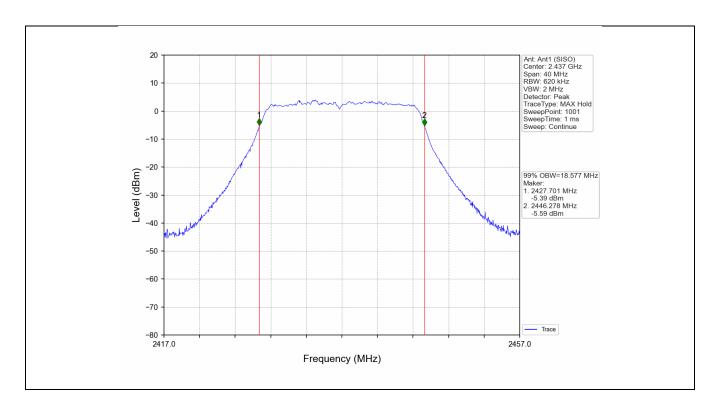
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



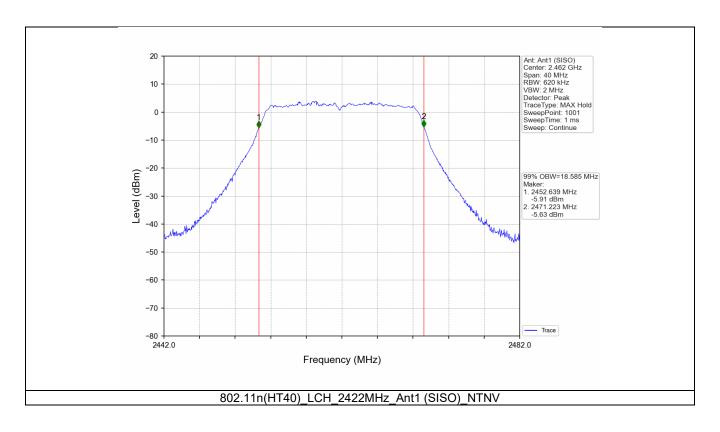
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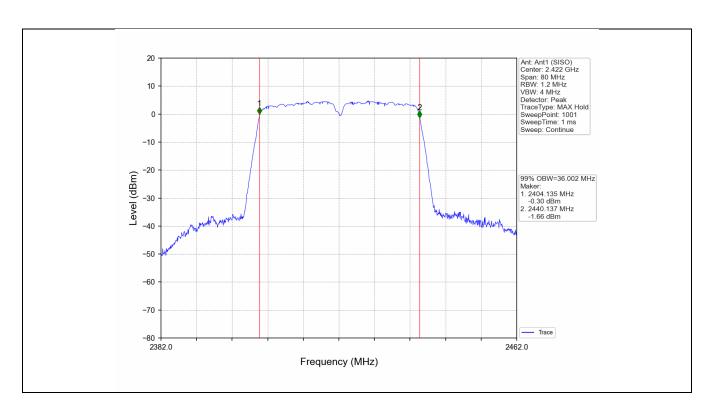
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



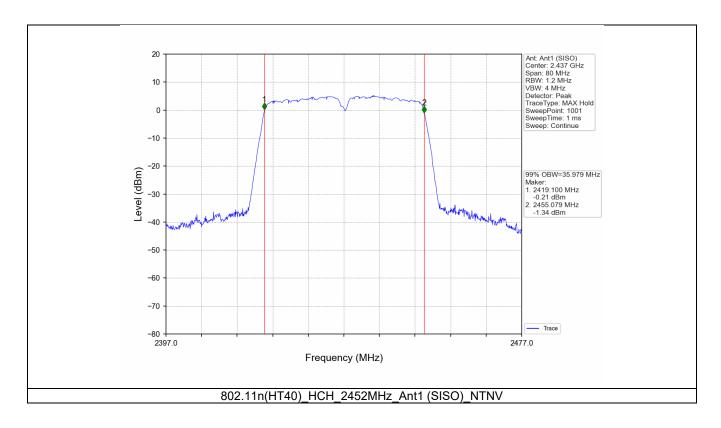
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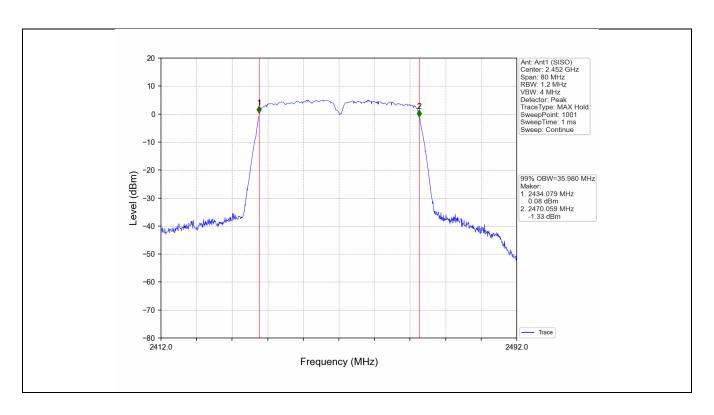
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2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	Ant	6dB Bandw	Vardiet	
	Type	(MHz)	Ant	Result	Limit	Verdict
802.11b	SISO	2412	1	10.055	>=0.5	Pass
		2437	1	10.077	>=0.5	Pass
		2462	1	10.086	>=0.5	Pass
	SISO	2412	1	16.568	>=0.5	Pass
802.11g		2437	1	16.572	>=0.5	Pass
		2462	1	16.566	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.750	>=0.5	Pass
		2437	1	17.758	>=0.5	Pass
		2462	1	17.759	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.411	>=0.5	Pass
		2437	1	36.405	>=0.5	Pass
		2452	1	36.403	>=0.5	Pass



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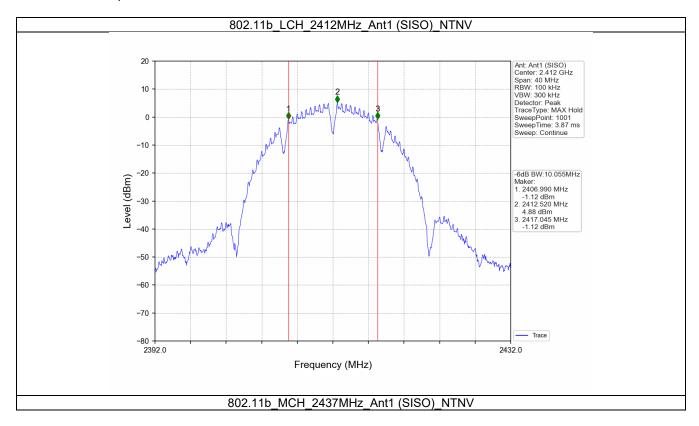
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2.2.2 Test Graph





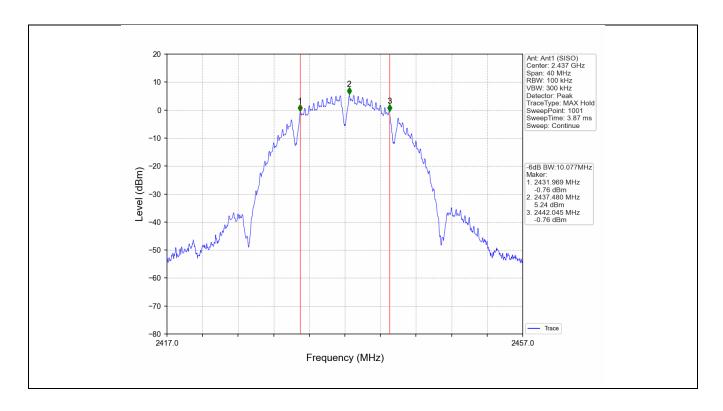
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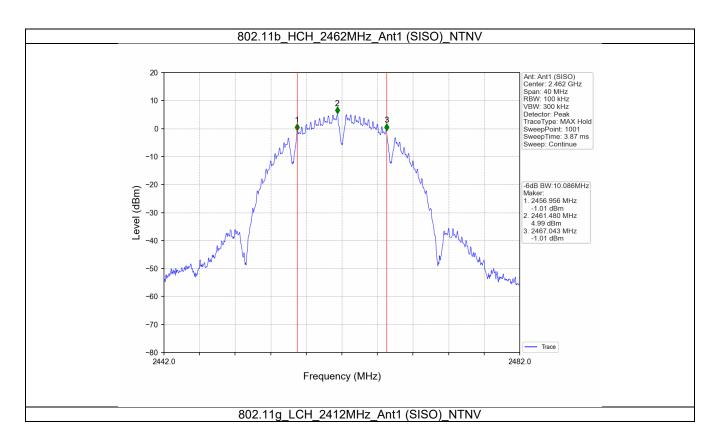
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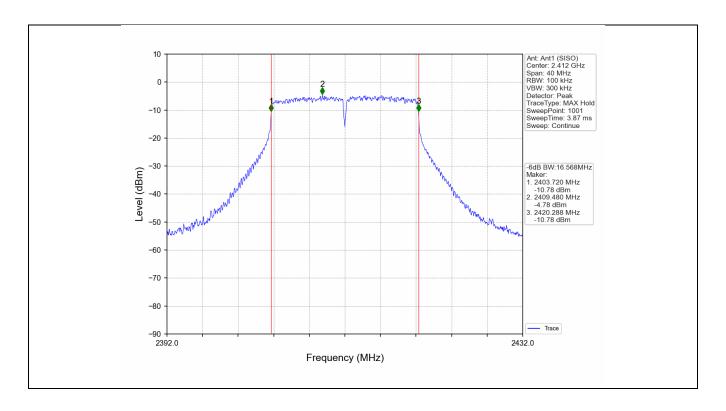
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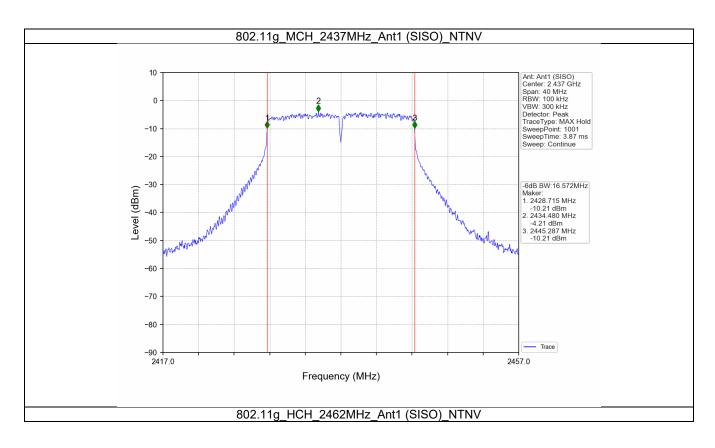
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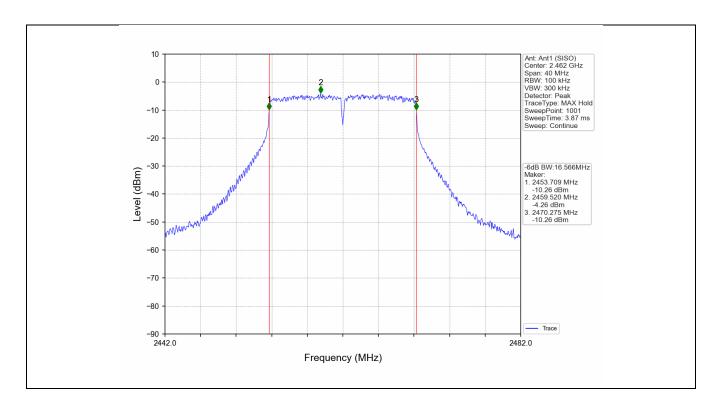
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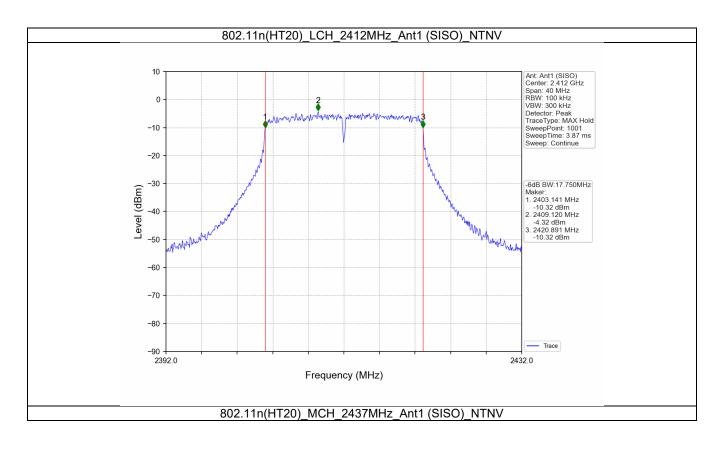
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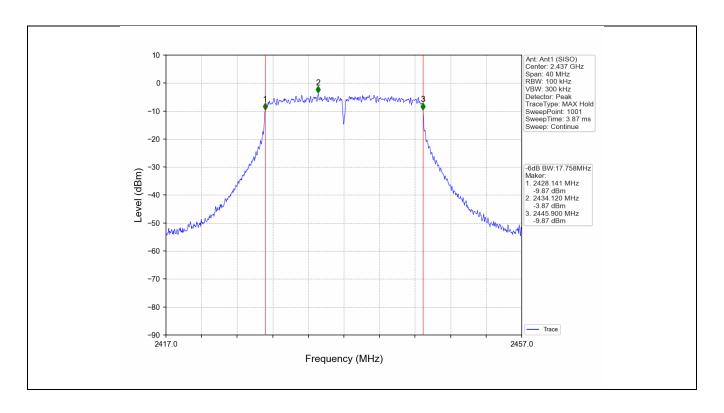
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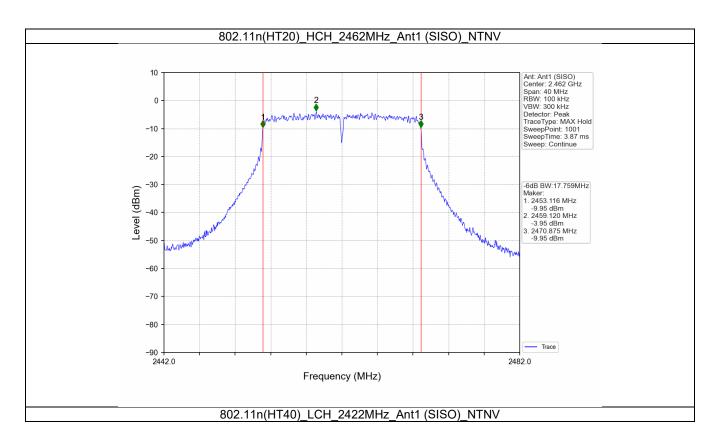
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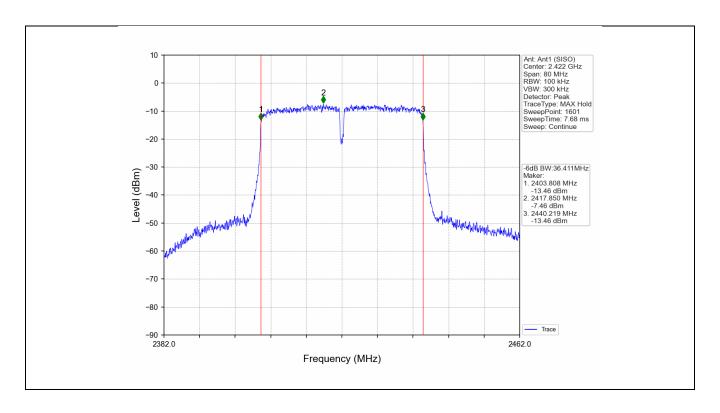
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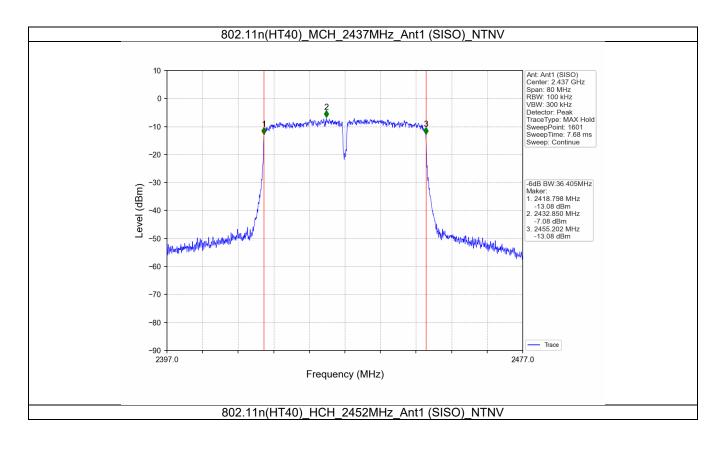
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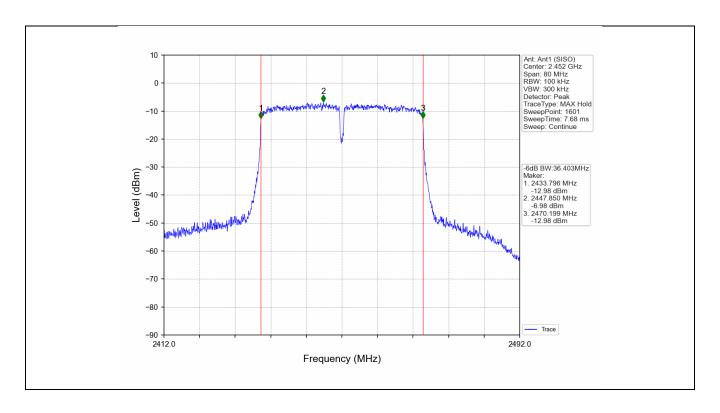
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency	Maximum Peak Conduct	Verdict	
	Type	(MHz)	Ant1	Limit	Verdict
802.11b	SISO	2412	17.17	<=30	Pass
		2437	17.54	<=30	Pass
		2462	17.36	<=30	Pass
802.11g	SISO	2412	17.07	<=30	Pass
		2437	17.67	<=30	Pass
		2462	17.56	<=30	Pass
802.11n (HT20)	SISO	2412	17.22	<=30	Pass
		2437	17.76	<=30	Pass
		2462	17.66	<=30	Pass
802.11n (HT40)	SISO	2422	17.39	<=30	Pass
		2437	17.68	<=30	Pass
		2452	17.75	<=30	Pass
Note1: Antenr	a Gain: Ant1:	3.39dBi;			•

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency	Maximum PSD (dBm/3kHz)		Verdict
	Type	(MHz)	Ant1	Limit	verdict
802.11b	SISO	2412	-15.12	<=8	Pass
		2437	-14.72	<=8	Pass
		2462	-14.93	<=8	Pass
802.11g	SISO	2412	-18.81	<=8	Pass
		2437	-18.46	<=8	Pass
		2462	-18.40	<=8	Pass
000 44=	SISO	2412	-18.65	<=8	Pass
802.11n (HT20)		2437	-18.13	<=8	Pass
		2462	-18.18	<=8	Pass
000 44=	SISO	2422	-20.24	<=8	Pass
802.11n (HT40)		2437	-18.51	<=8	Pass
		2452	-17.65	<=8	Pass
Note1: Antenna G	Sain: Ant1: 3.39dE	i;			



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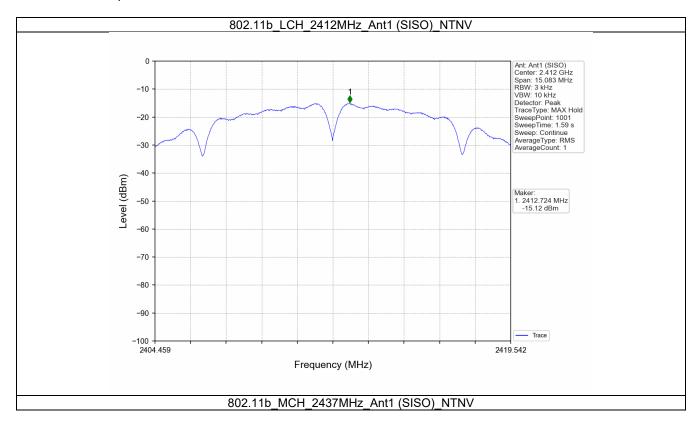
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4.1.2 Test Graph





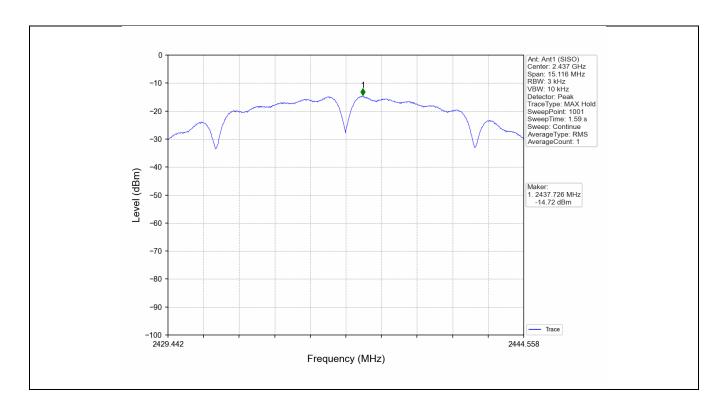
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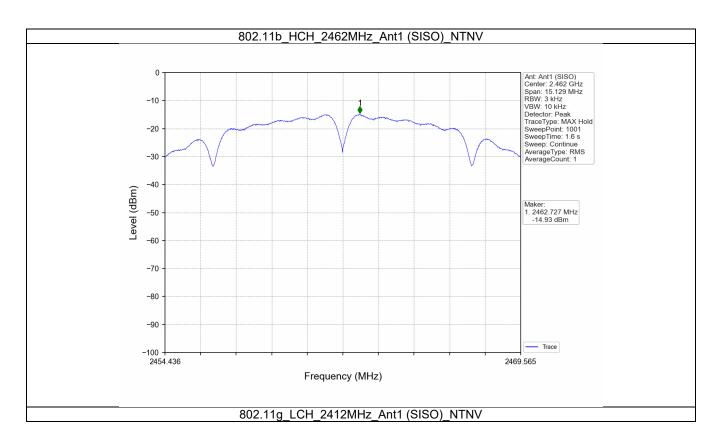
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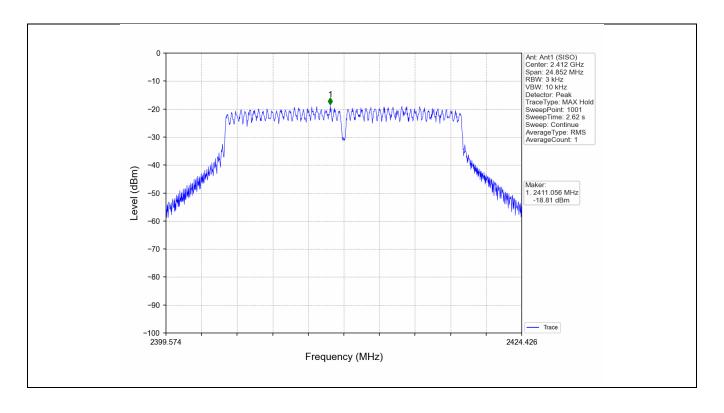
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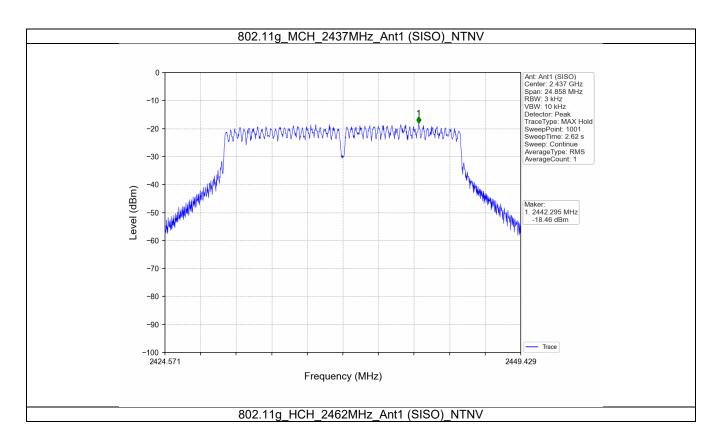
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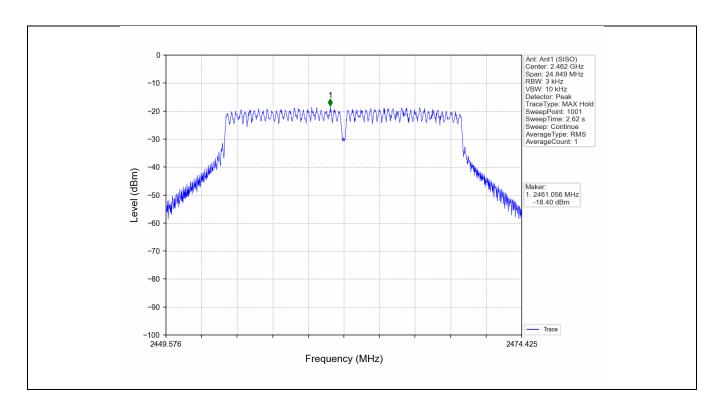
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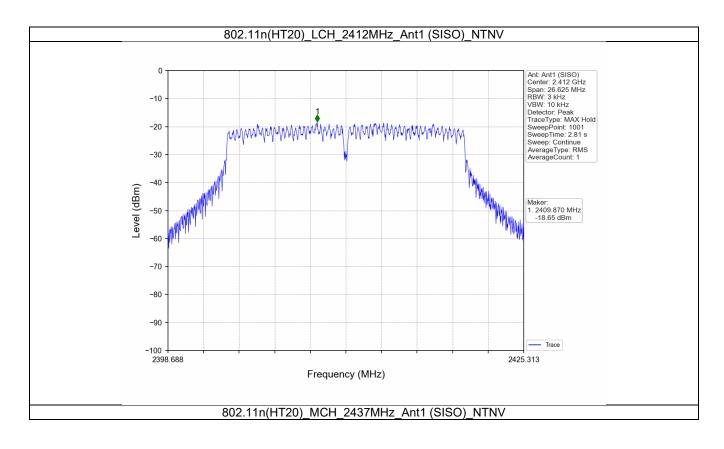
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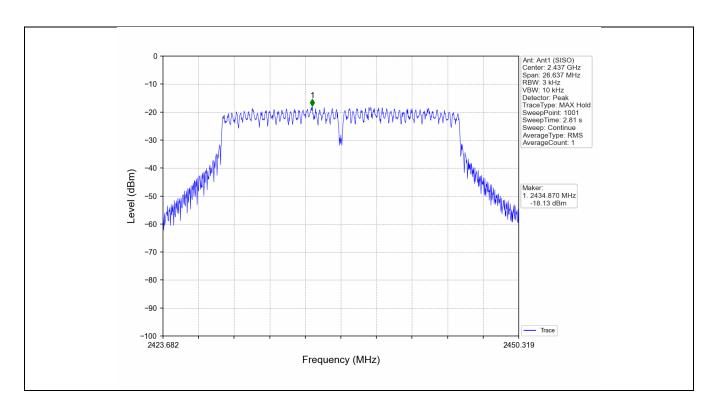
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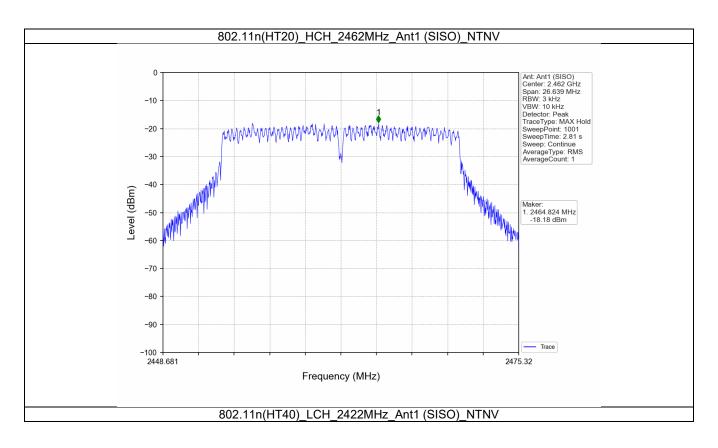
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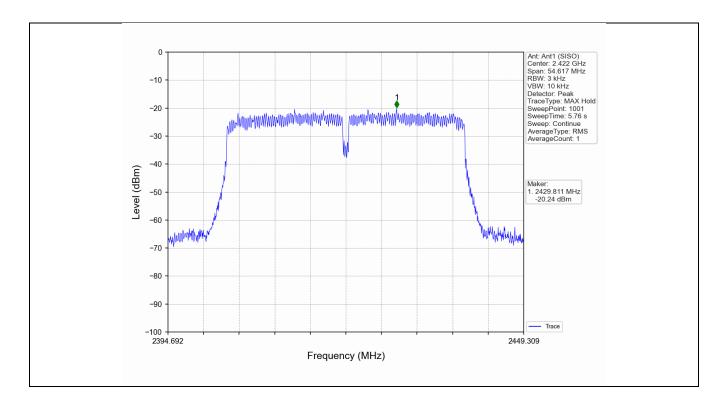
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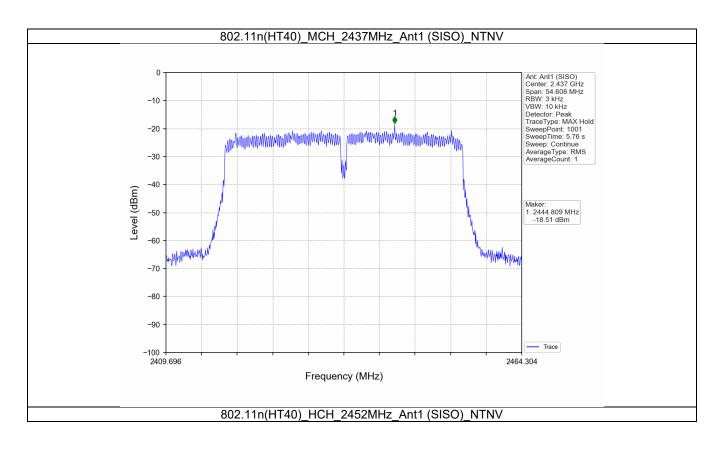
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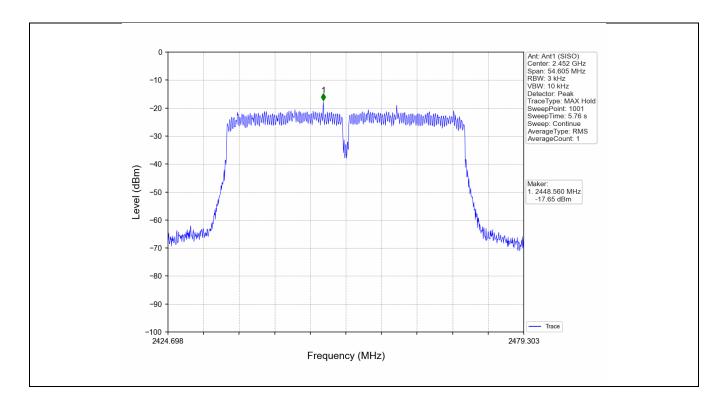
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	4.62
		2437	1	5.03
		2462	1	4.78
	SISO	2412	1	-4.77
802.11g		2437	1	-4.26
		2462	1	-4.24
900 11n	SISO	2412	1	-4.35
802.11n (HT20)		2437	1	-3.90
(П120)		2462	1	-3.88
802.11n	SISO	2422	1	-7.50
(HT40)		2437	1	-7.09
(1140)		2452	1	-6.99

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.

5.1.2 Test Graph

802.11b LCH 2412MHz Ant1 (SISO) NTNV



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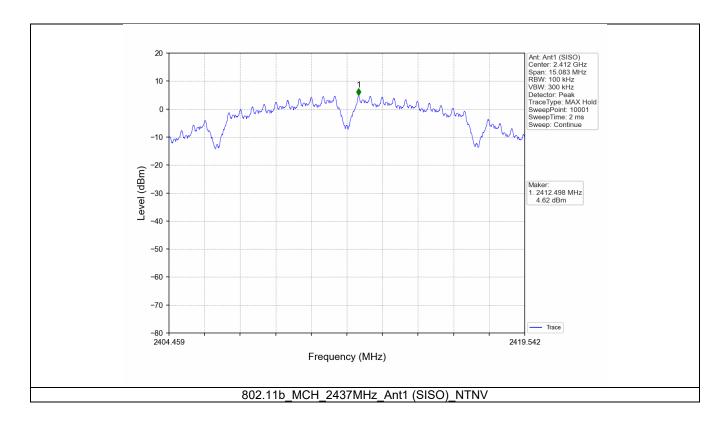
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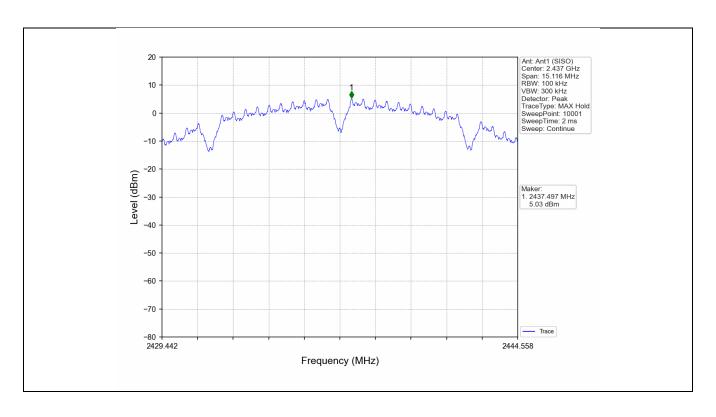
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



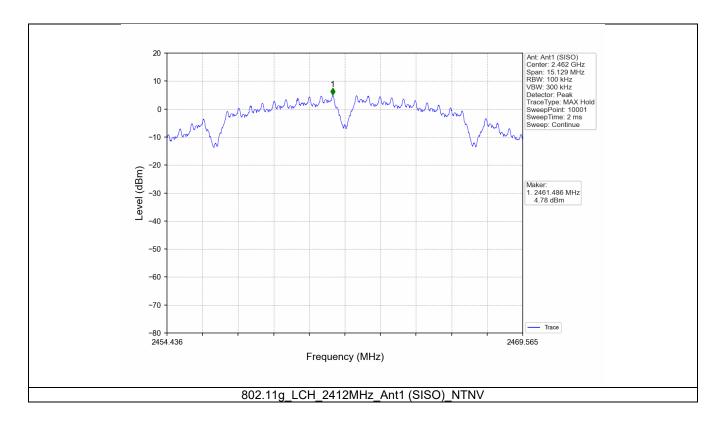
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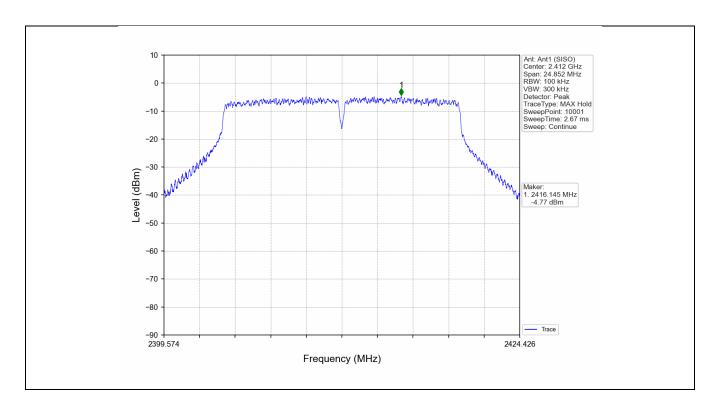
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802.11g MCH 2437MHz Ant1 (SISO) NTNV



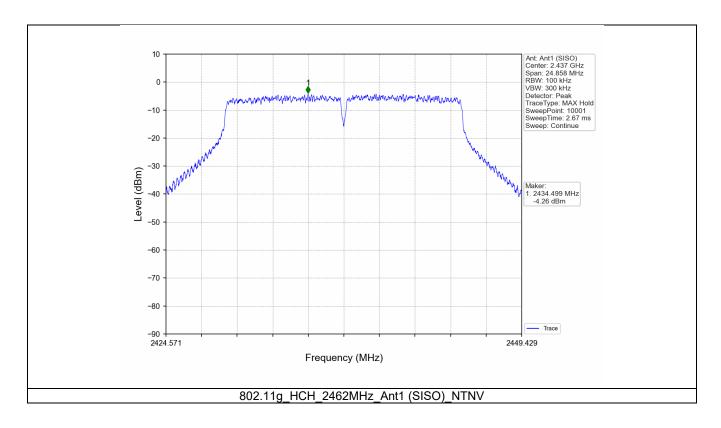
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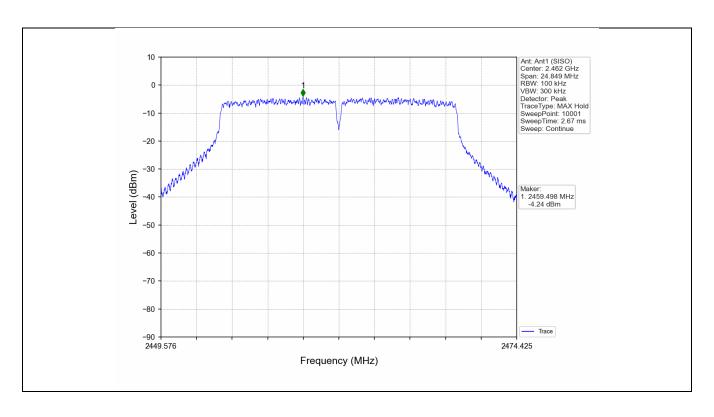
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



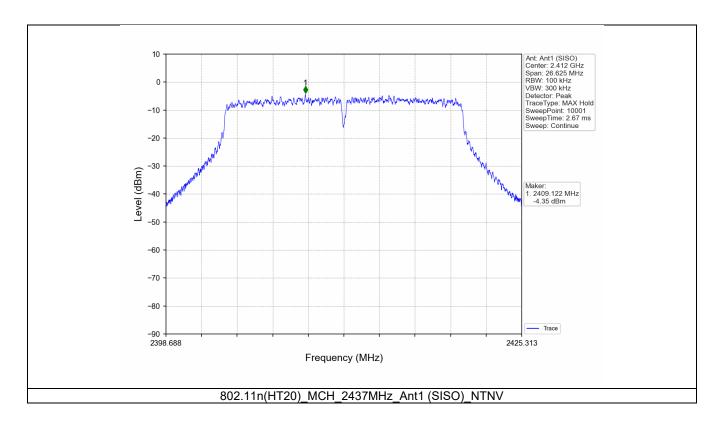
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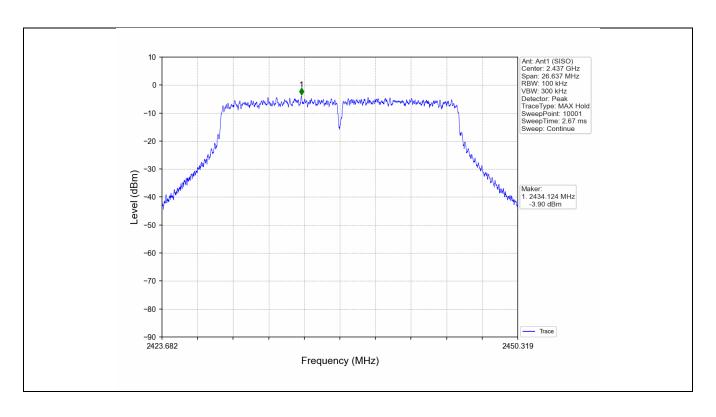
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



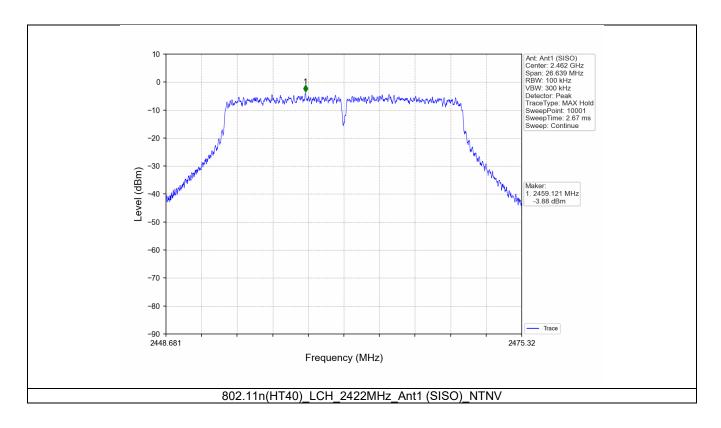
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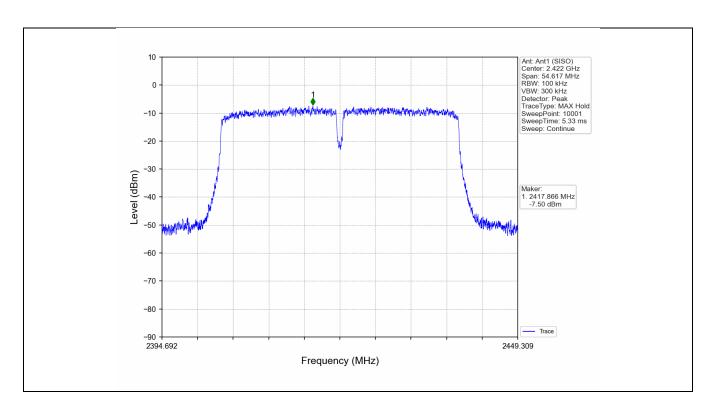
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



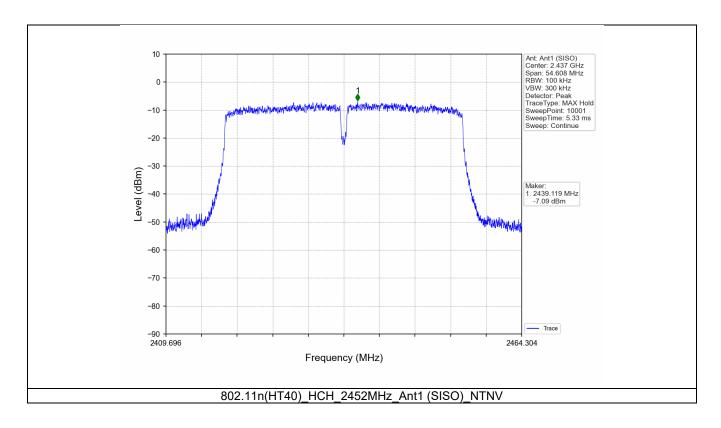
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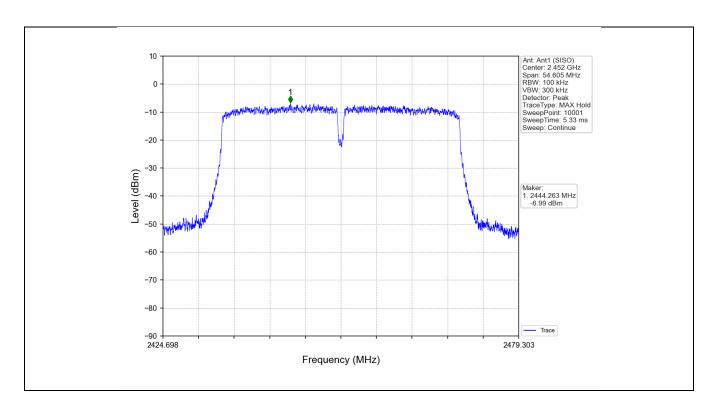
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
	SISO	2412	1	5.03	-14.97	Pass
802.11b		2437	1	5.03	-14.97	Pass
		2462	1	5.03	-14.97	Pass
802.11g	SISO	2412	1	-4.24	-24.24	Pass
		2437	1	-4.24	-24.24	Pass
		2462	1	-4.24	-24.24	Pass
000 11p	SISO	2412	1	-3.88	-23.88	Pass
802.11n (HT20)		2437	1	-3.88	-23.88	Pass
		2462	1	-3.88	-23.88	Pass
802.11n (HT40)	SISO	2422	1	-6.99	-26.99	Pass
		2437	1	-6.99	-26.99	Pass
		2452	1	-6.99	-26.99	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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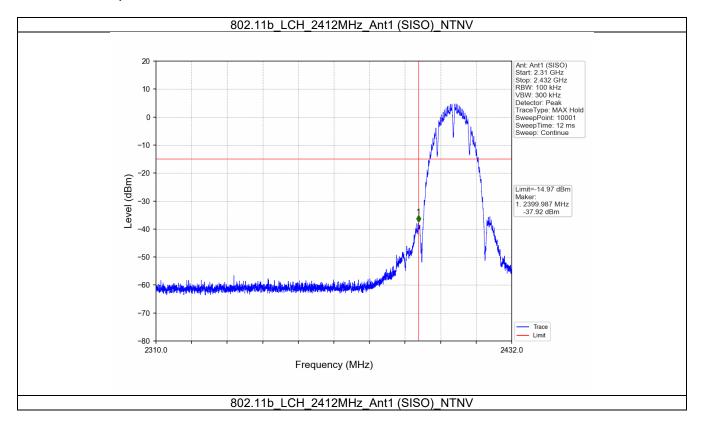
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5.2.2 Test Graph





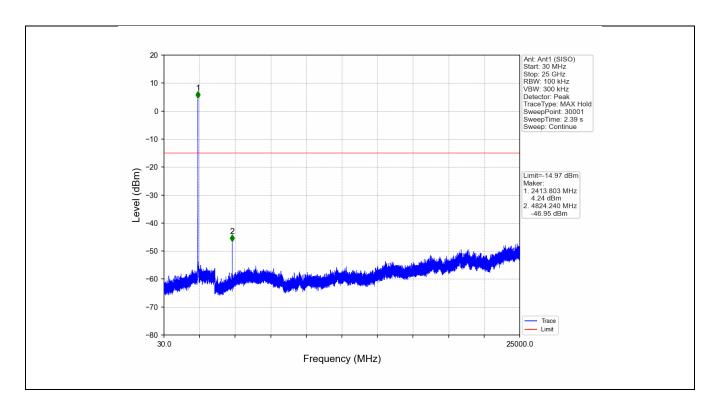
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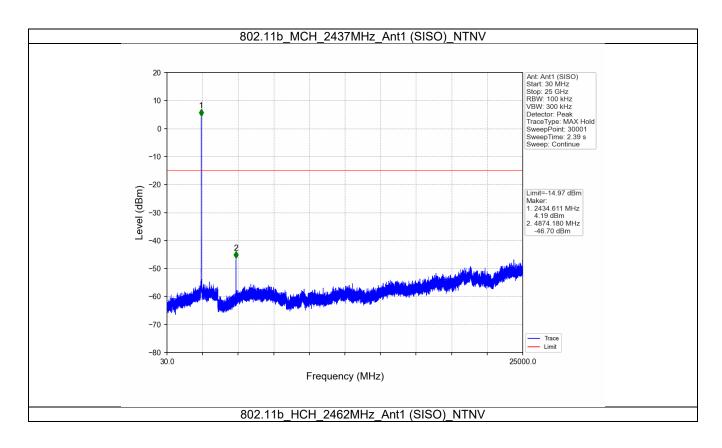
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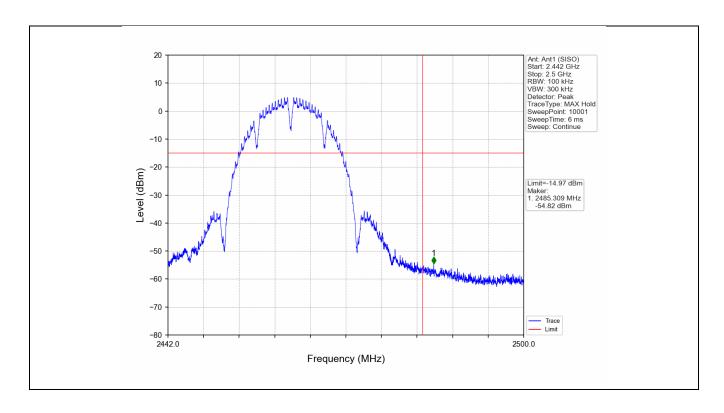
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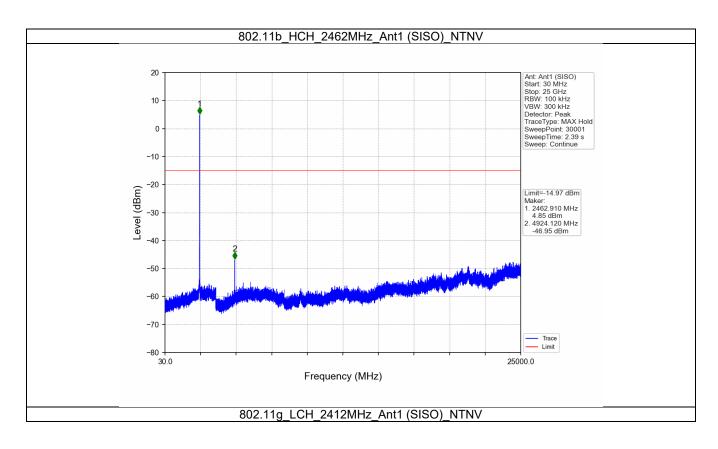
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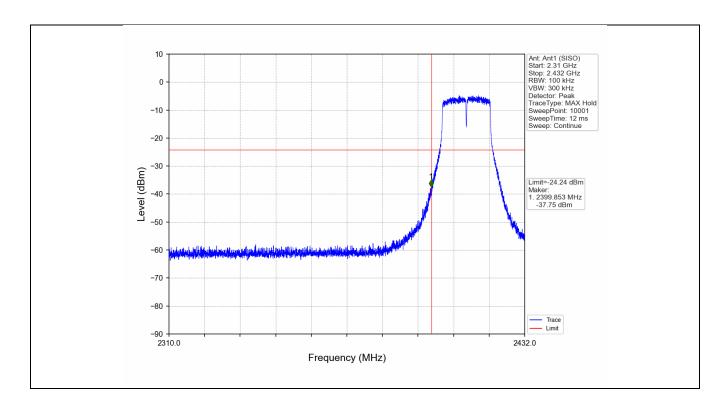
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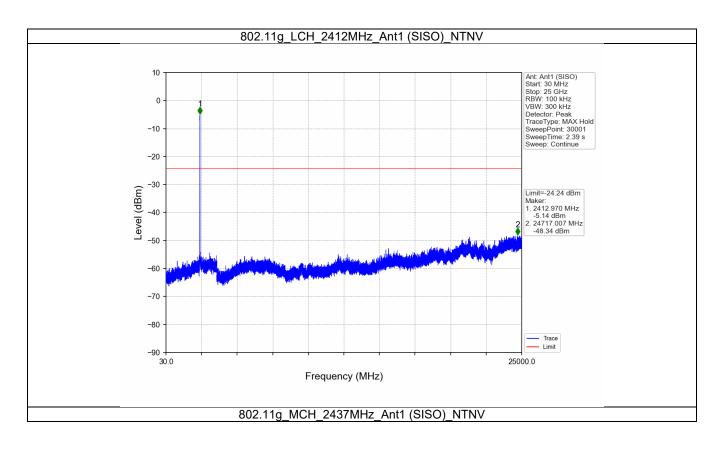
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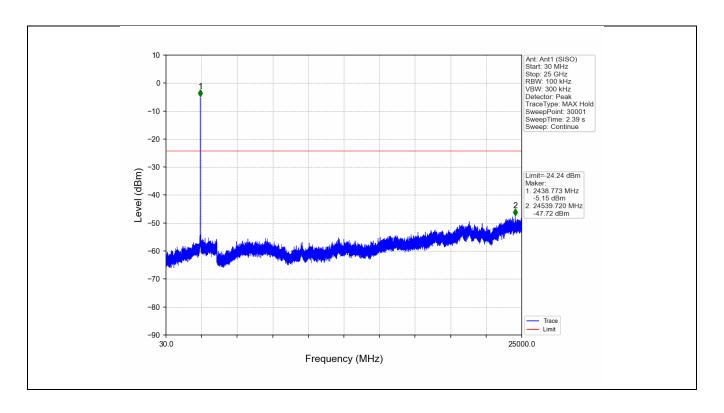
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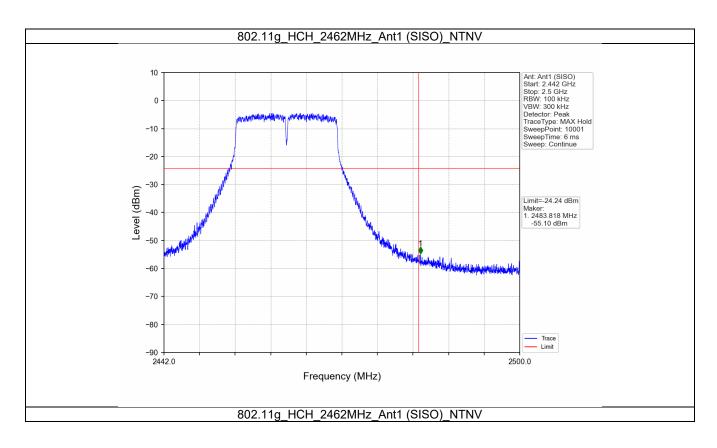
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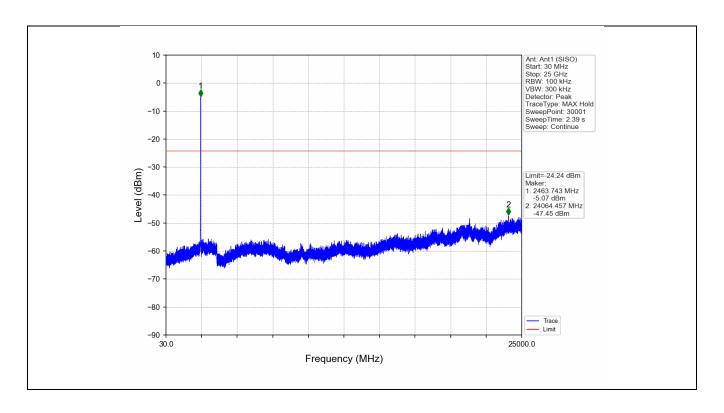
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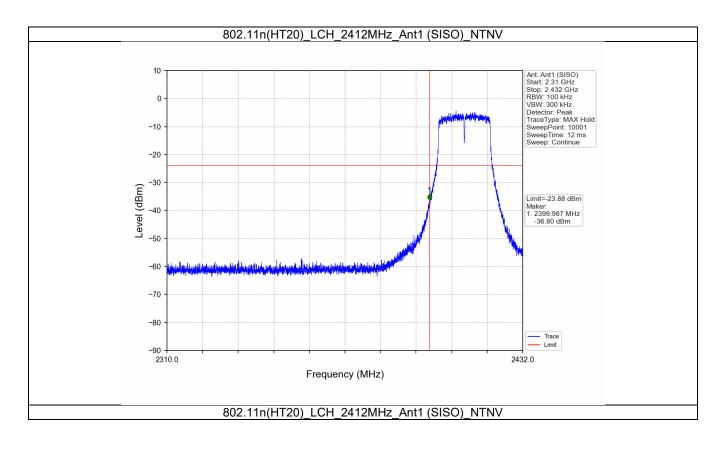
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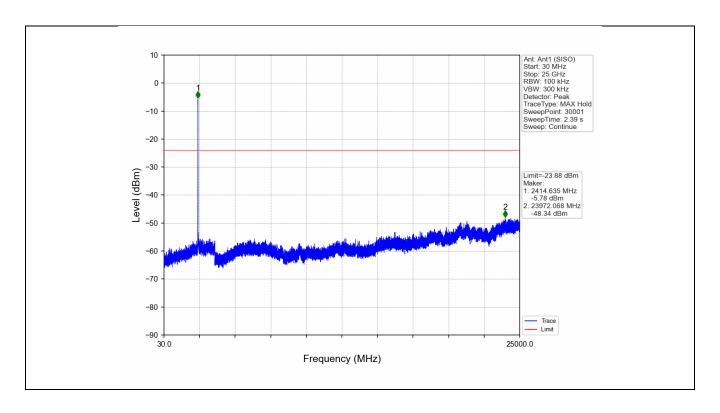
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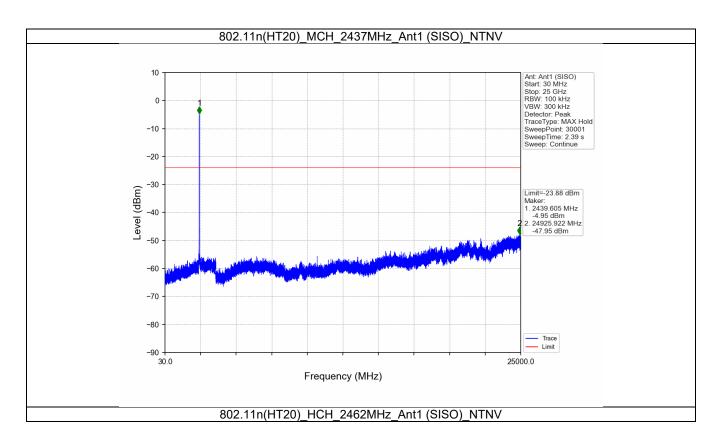
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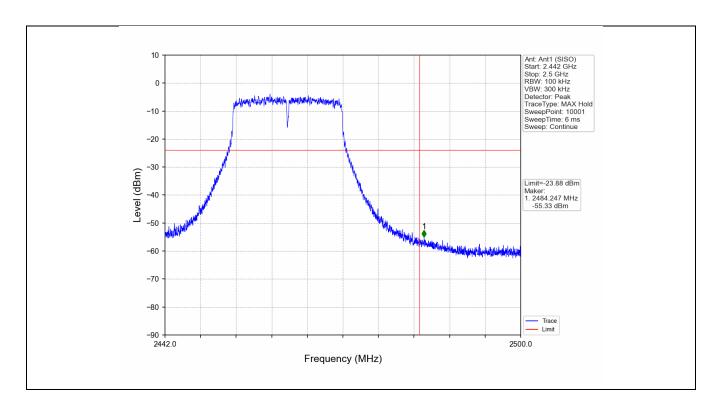
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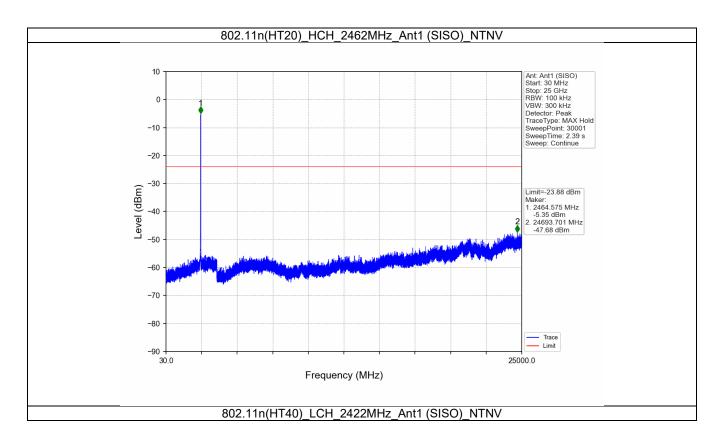
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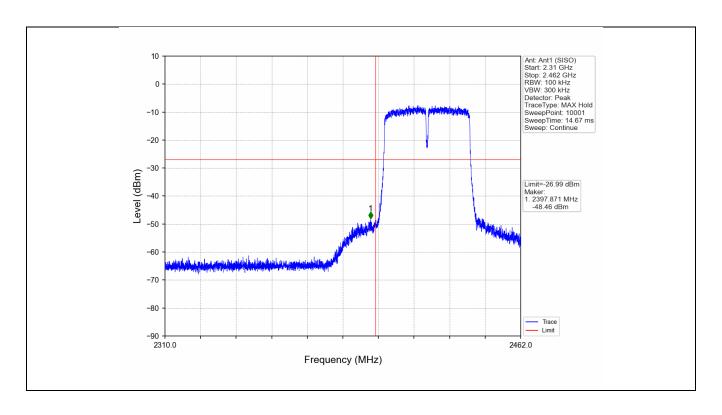
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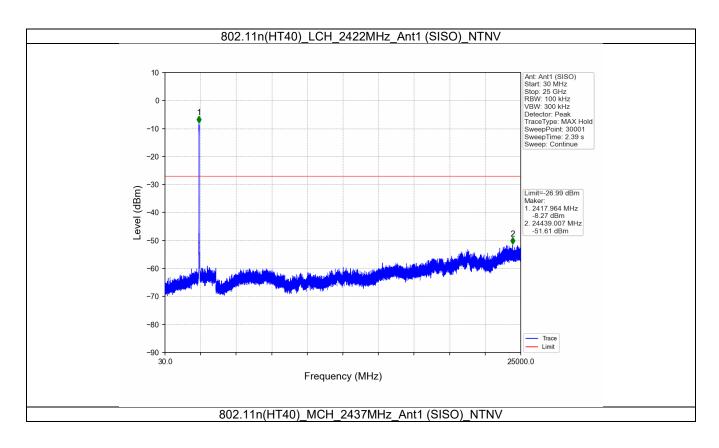
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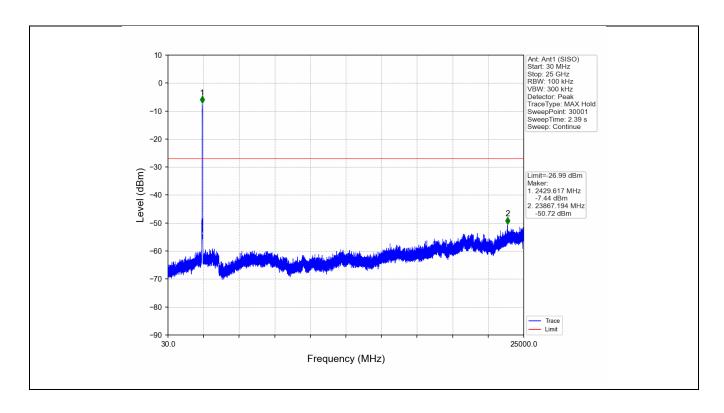
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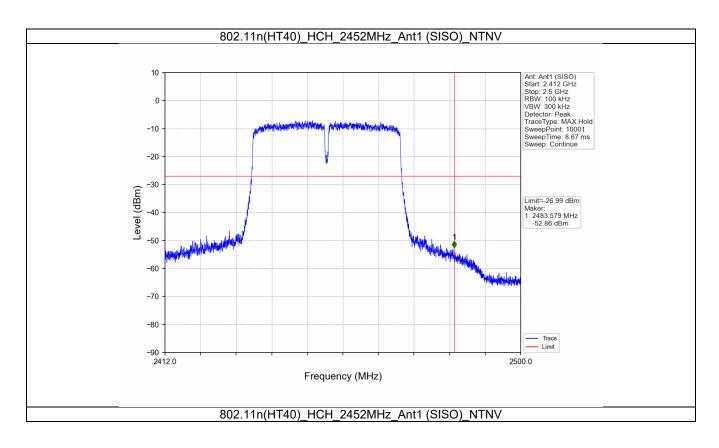
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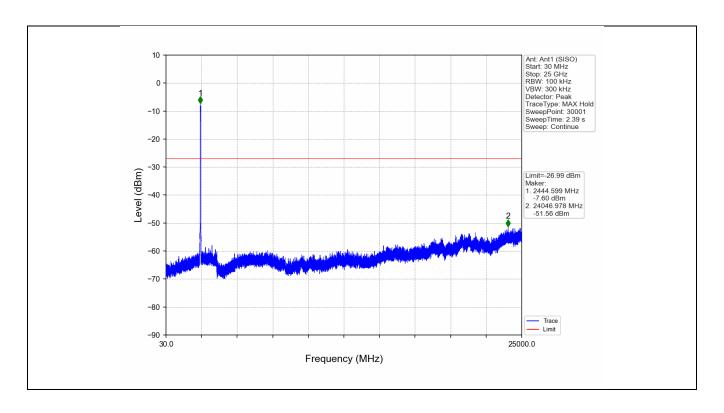
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