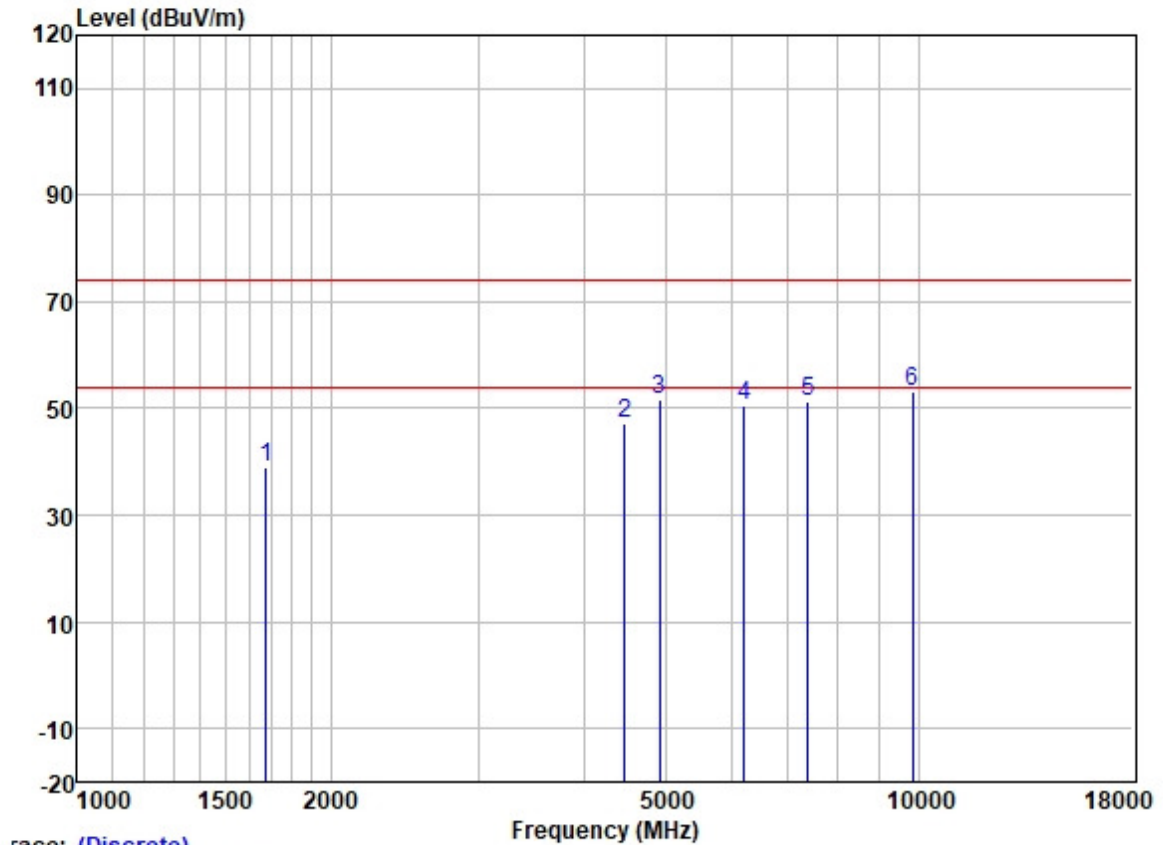


Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



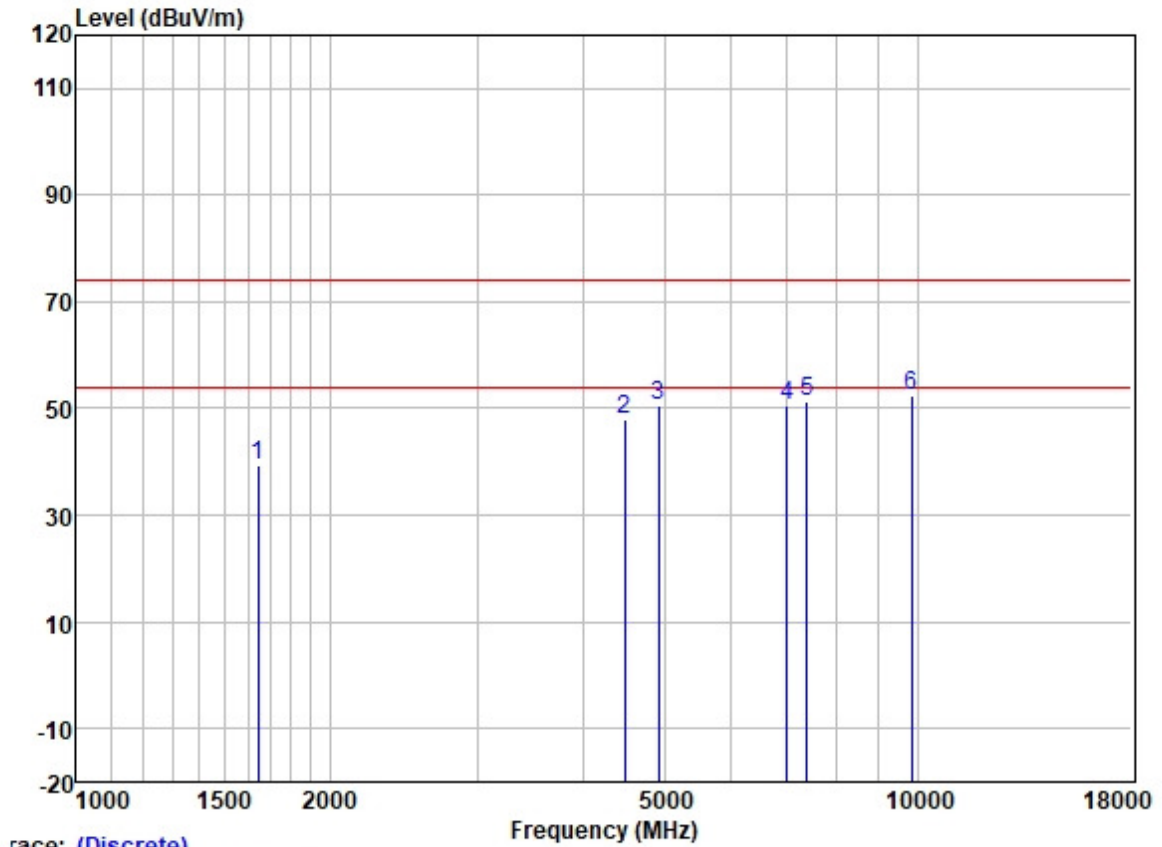
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1677.621	48.49	25.68	2.80	37.91	39.06	74.00	-34.94	HORIZONTAL Peak
2	4469.214	48.28	30.77	4.93	36.81	47.17	74.00	-26.83	HORIZONTAL Peak
3	4924.000	51.16	31.62	5.60	36.84	51.54	74.00	-22.46	HORIZONTAL Peak
4	6213.441	48.54	33.03	6.06	36.94	50.69	74.00	-23.31	HORIZONTAL Peak
5	7386.000	46.40	36.17	6.19	37.45	51.31	74.00	-22.69	HORIZONTAL Peak
6	9848.000	44.84	38.58	6.99	37.41	53.00	74.00	-21.00	HORIZONTAL Peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



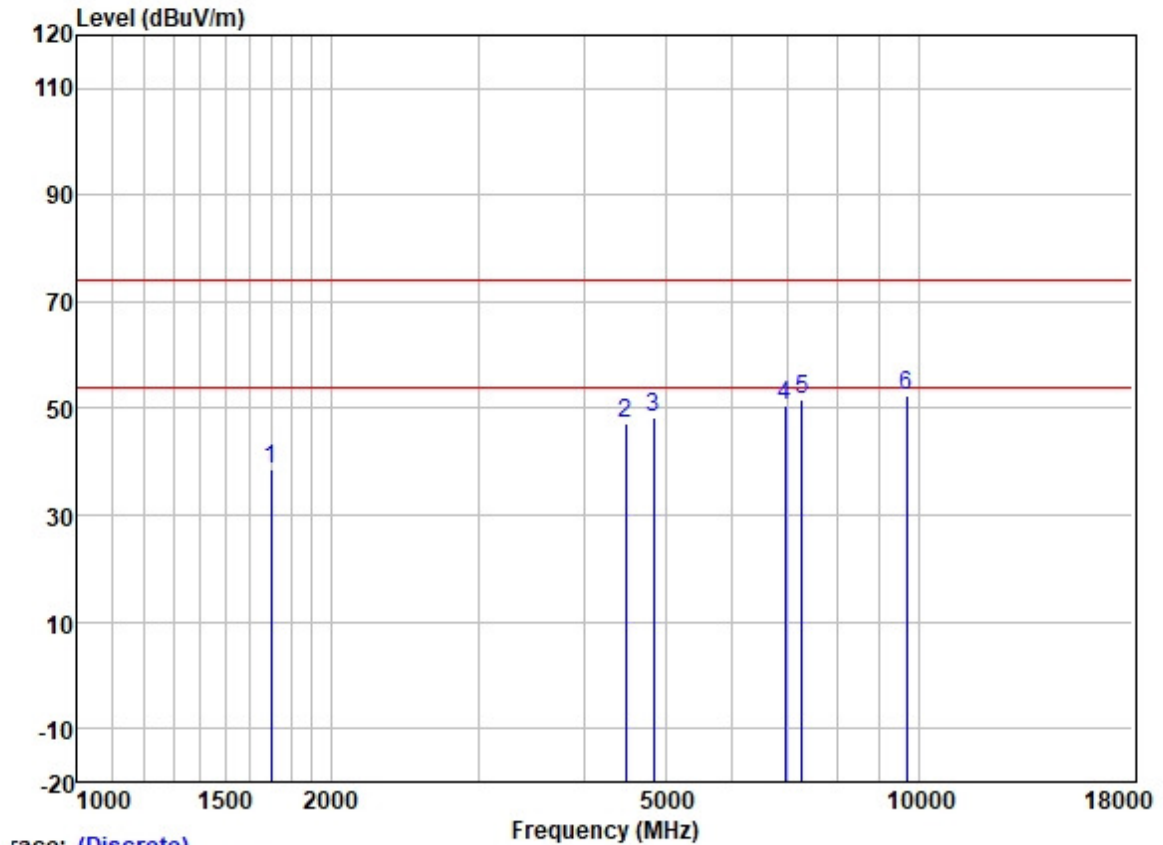
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1644.019	49.04	25.63	2.80	37.93	39.54	74.00	-34.46	VERTICAL Peak
2	4482.150	49.10	30.78	4.99	36.81	48.06	74.00	-25.94	VERTICAL Peak
3	4924.000	50.11	31.62	5.60	36.84	50.49	74.00	-23.51	VERTICAL Peak
4	6995.172	47.09	35.00	5.81	37.25	50.65	74.00	-23.35	VERTICAL Peak
5	7386.000	46.31	36.17	6.19	37.45	51.22	74.00	-22.78	VERTICAL Peak
6	9848.000	44.38	38.58	6.99	37.41	52.54	74.00	-21.46	VERTICAL Peak



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



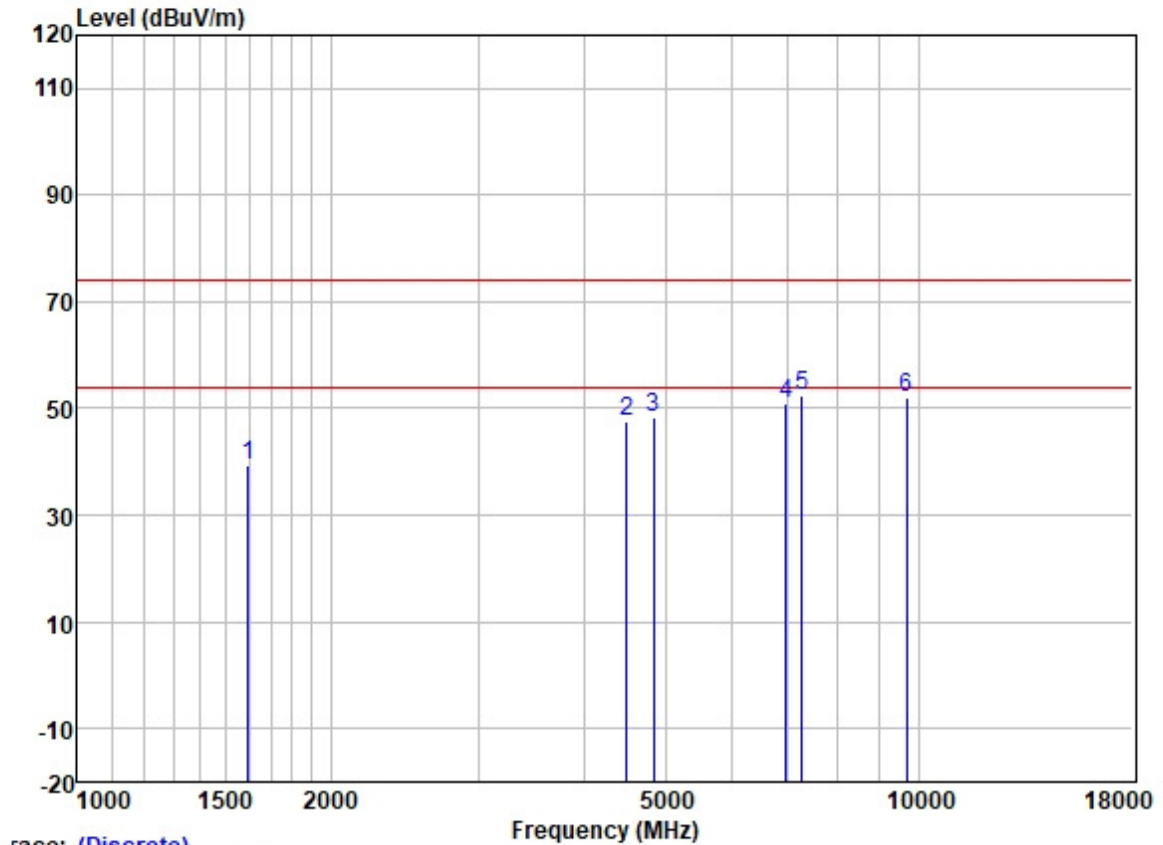
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1697.129	47.98	25.71	2.80	37.89	38.60	74.00	-35.40	HORIZONTAL Peak
2	4482.150	48.29	30.78	4.99	36.81	47.25	74.00	-26.75	HORIZONTAL Peak
3	4844.000	48.03	31.50	5.45	36.84	48.14	74.00	-25.86	HORIZONTAL Peak
4	6934.778	47.01	34.92	5.81	37.19	50.55	74.00	-23.45	HORIZONTAL Peak
5	7266.000	47.43	35.78	6.06	37.41	51.86	74.00	-22.14	HORIZONTAL Peak
6	9688.000	44.21	38.44	7.04	37.42	52.27	74.00	-21.73	HORIZONTAL Peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



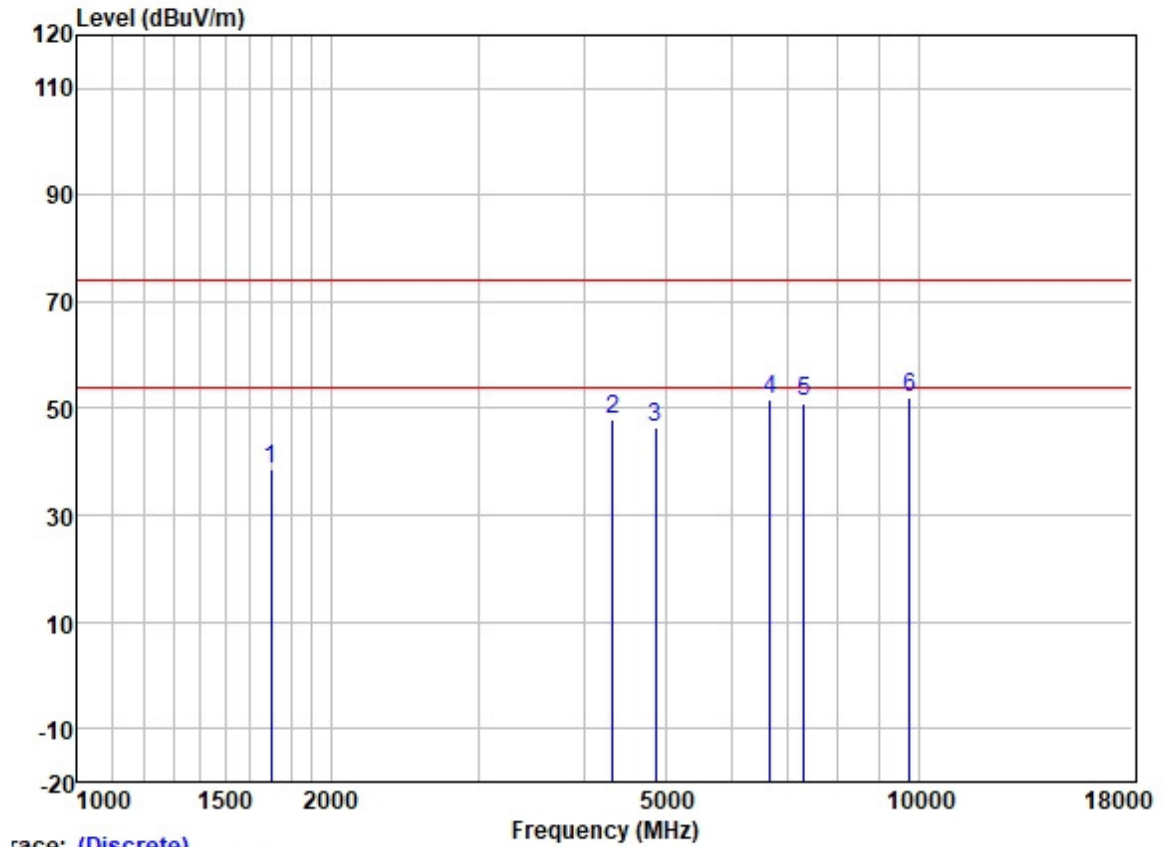
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1597.181	48.81	25.58	2.80	37.98	39.21	74.00	-34.79	VERTICAL Peak
2	4495.125	48.40	30.80	5.05	36.82	47.43	74.00	-26.57	VERTICAL Peak
3	4844.000	48.11	31.50	5.45	36.84	48.22	74.00	-25.78	VERTICAL Peak
4	6954.852	47.54	34.95	5.81	37.21	51.09	74.00	-22.91	VERTICAL Peak
5	7266.000	48.01	35.78	6.06	37.41	52.44	74.00	-21.56	VERTICAL Peak
6	9688.000	44.13	38.44	7.04	37.42	52.19	74.00	-21.81	VERTICAL Peak



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



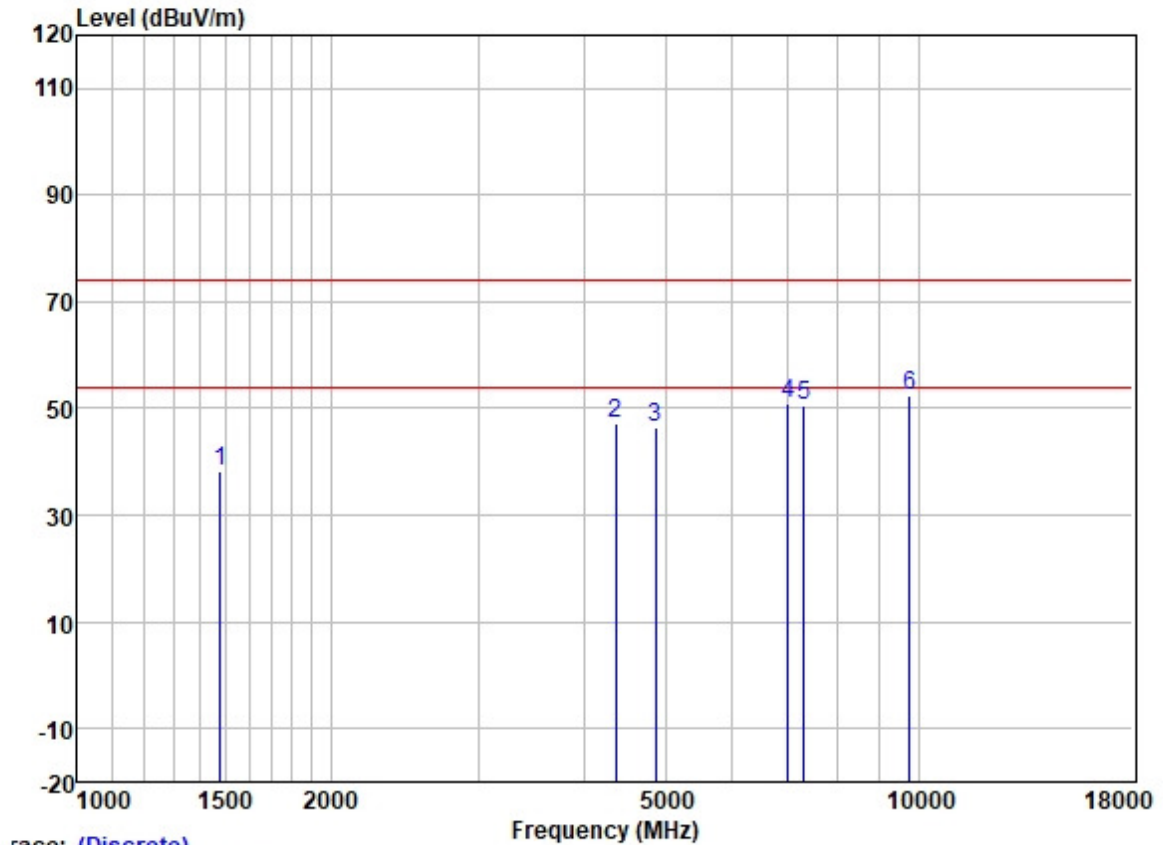
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1697.129	48.16	25.71	2.80	37.89	38.78	74.00	-35.22	HORIZONTAL	Peak
2	4329.354	49.46	30.54	4.67	36.81	47.86	74.00	-26.14	HORIZONTAL	Peak
3	4874.000	46.26	31.54	5.50	36.84	46.46	74.00	-27.54	HORIZONTAL	Peak
4	6659.763	48.47	34.29	5.83	37.06	51.53	74.00	-22.47	HORIZONTAL	Peak
5	7311.000	46.50	35.93	6.11	37.42	51.12	74.00	-22.88	HORIZONTAL	Peak
6	9748.000	44.09	38.50	7.02	37.41	52.20	74.00	-21.80	HORIZONTAL	Peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



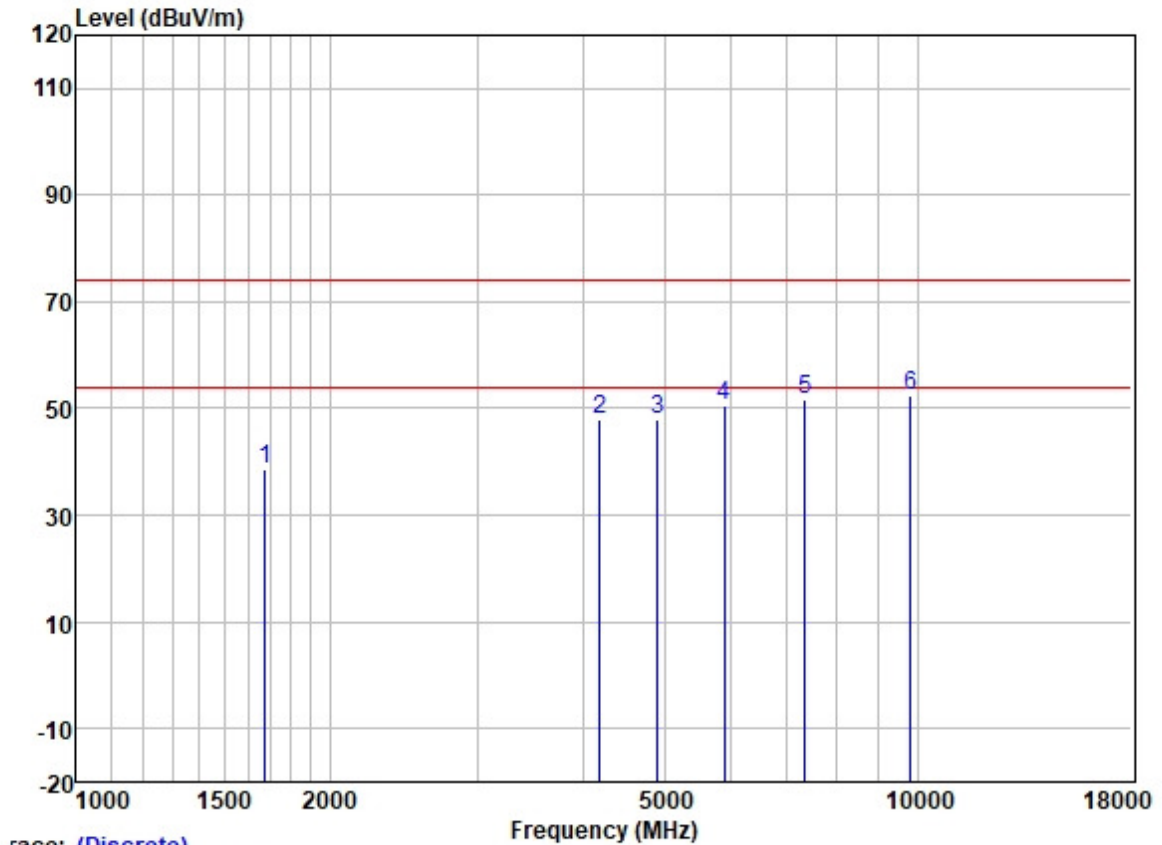
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1477.276	48.18	25.48	2.77	38.13	38.30	-35.70	VERTICAL	Peak
2	4367.058	48.71	30.62	4.68	36.81	47.20	-26.80	VERTICAL	Peak
3	4874.000	46.42	31.54	5.50	36.84	46.62	-27.38	VERTICAL	Peak
4	6995.172	47.31	35.00	5.81	37.25	50.87	-23.13	VERTICAL	Peak
5	7311.000	45.90	35.93	6.11	37.42	50.52	-23.48	VERTICAL	Peak
6	9748.000	44.13	38.50	7.02	37.41	52.24	-21.76	VERTICAL	Peak



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



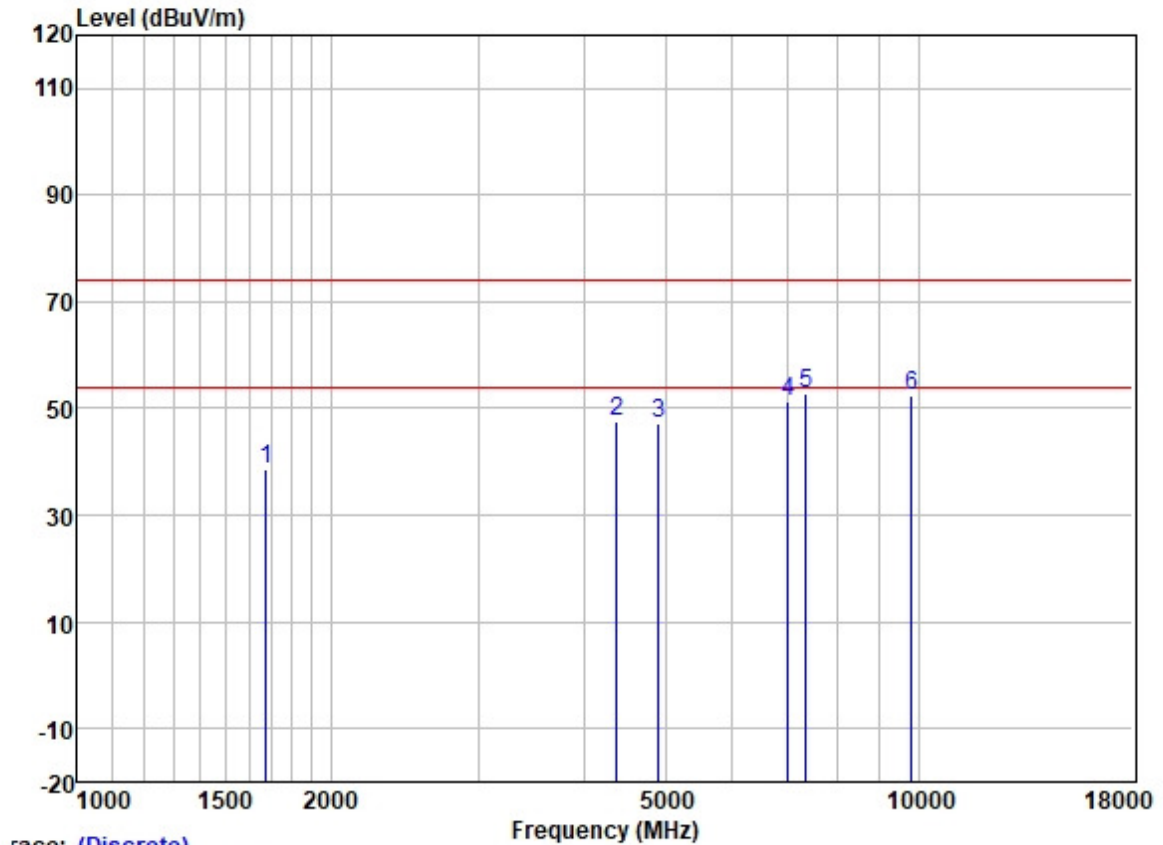
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1677.621	47.94	25.68	2.80	37.91	38.51	74.00	-35.49	HORIZONTAL Peak
2	4193.872	49.85	30.15	4.60	36.81	47.79	74.00	-26.21	HORIZONTAL Peak
3	4904.000	47.49	31.58	5.55	36.84	47.78	74.00	-26.22	HORIZONTAL Peak
4	5898.442	49.41	32.31	5.90	36.90	50.72	74.00	-23.28	HORIZONTAL Peak
5	7356.000	47.01	36.06	6.15	37.44	51.78	74.00	-22.22	HORIZONTAL Peak
6	9808.000	44.12	38.56	7.00	37.41	52.27	74.00	-21.73	HORIZONTAL Peak



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Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1677.621	48.07	25.68	2.80	37.91	38.64	74.00 -35.36	VERTICAL	Peak
2	4379.699	49.22	30.64	4.69	36.81	47.74	74.00 -26.26	VERTICAL	Peak
3	4904.000	46.93	31.58	5.55	36.84	47.22	74.00 -26.78	VERTICAL	Peak
4	6995.172	47.85	35.00	5.81	37.25	51.41	74.00 -22.59	VERTICAL	Peak
5	7356.000	47.92	36.06	6.15	37.44	52.69	74.00 -21.31	VERTICAL	Peak
6	9808.000	44.14	38.56	7.00	37.41	52.29	74.00 -21.71	VERTICAL	Peak



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Guangzhou Branch EMC Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2110021245AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021245AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

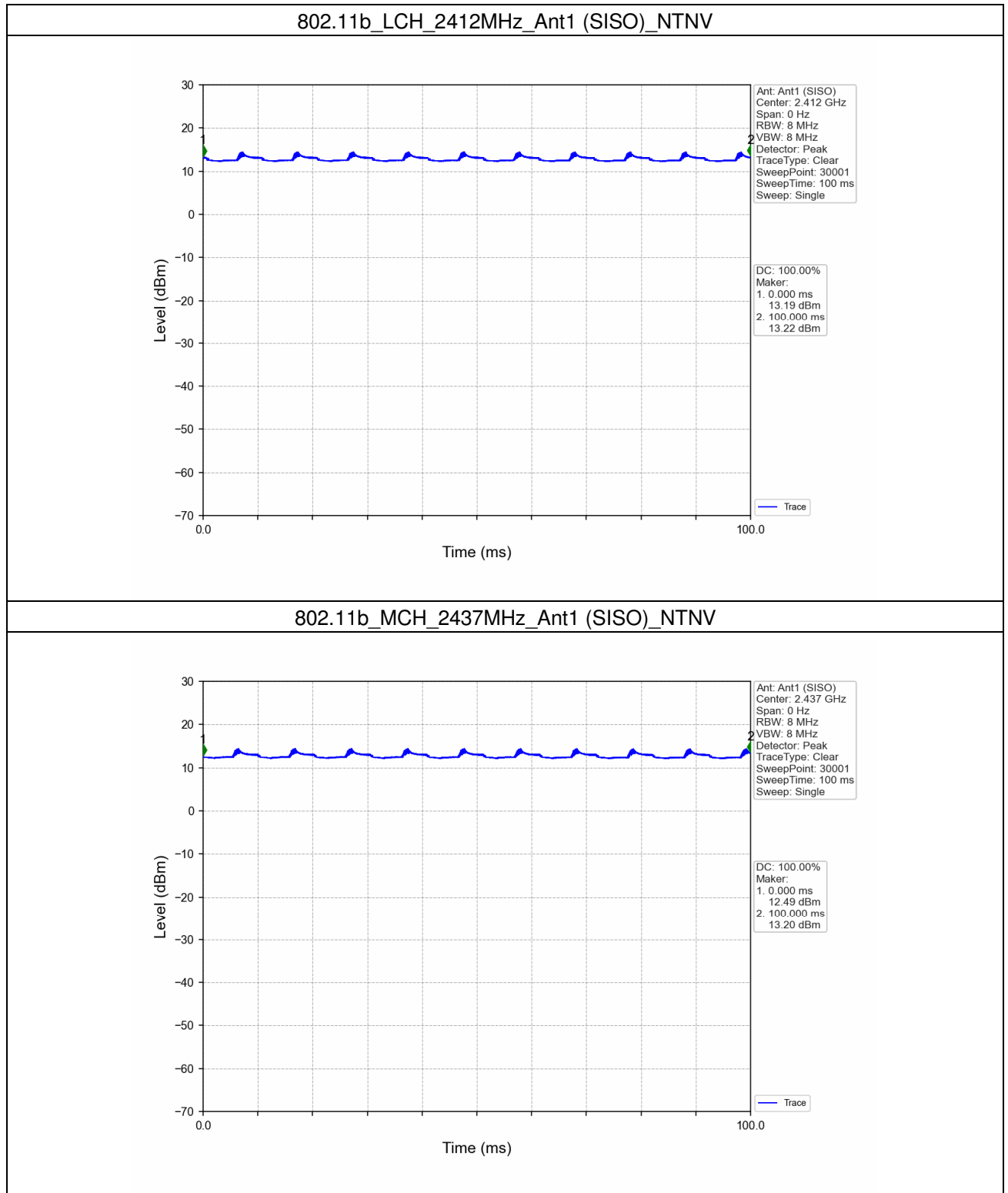
1.1.1 Test Result

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	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



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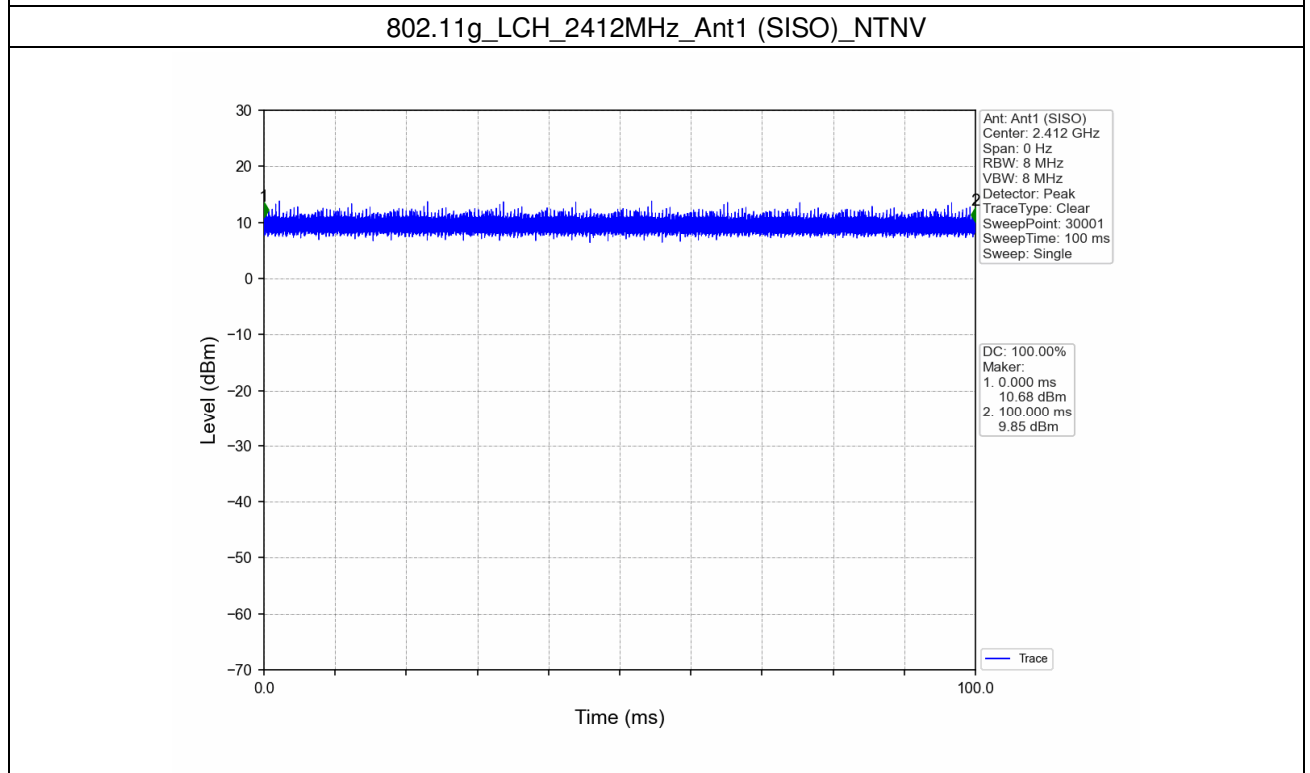
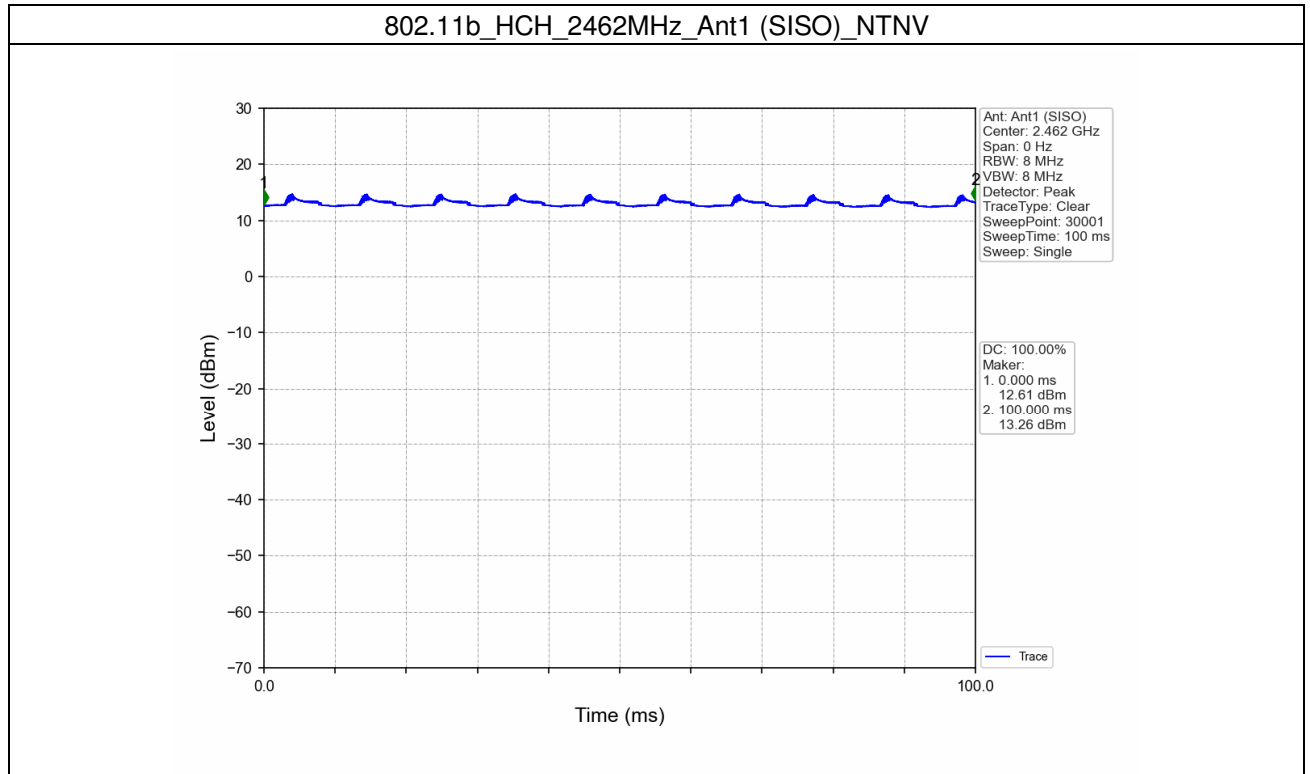
1.1.2 Test Graph



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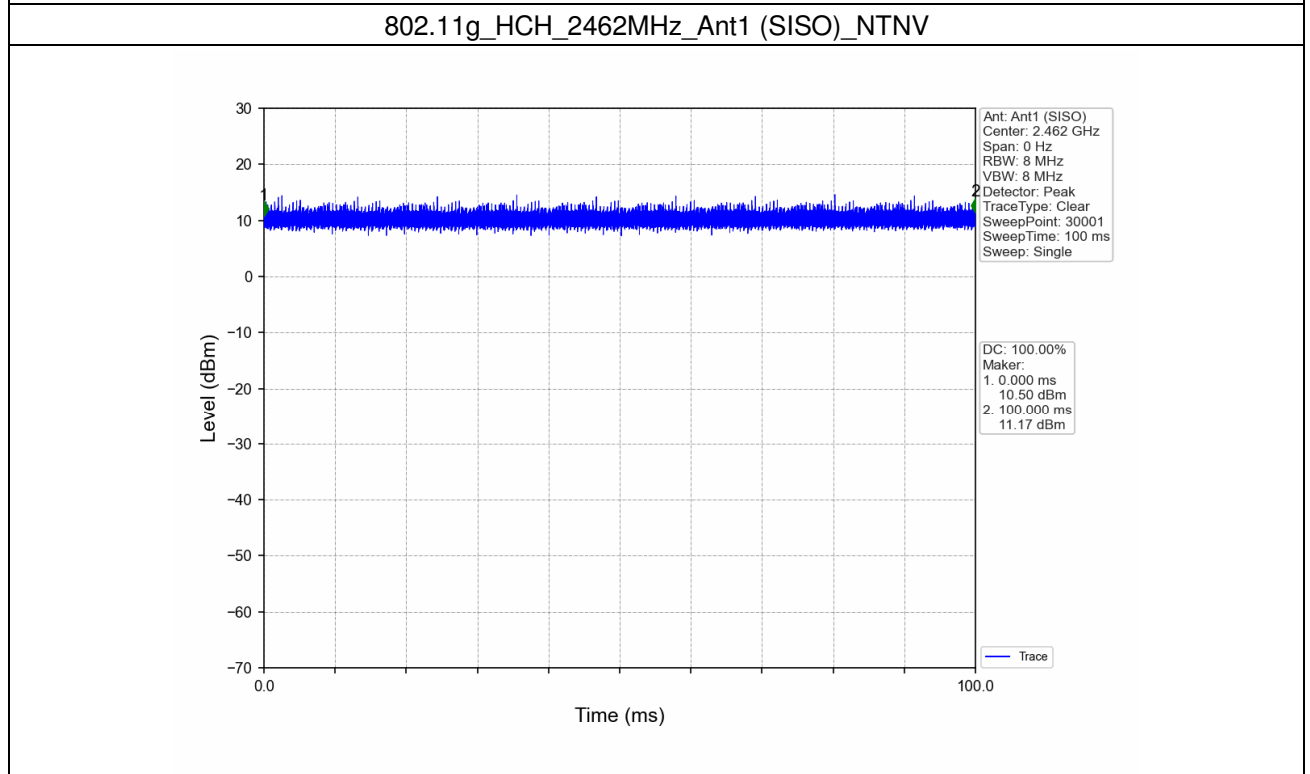
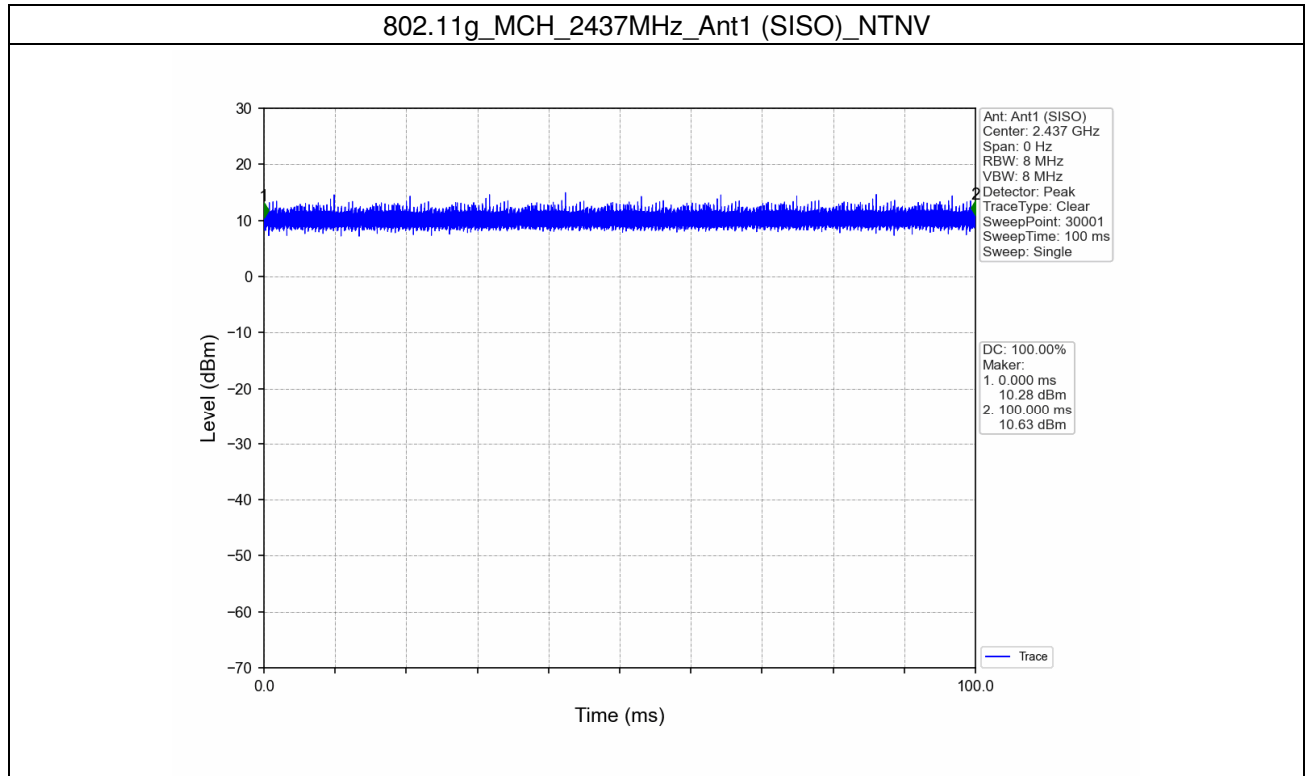
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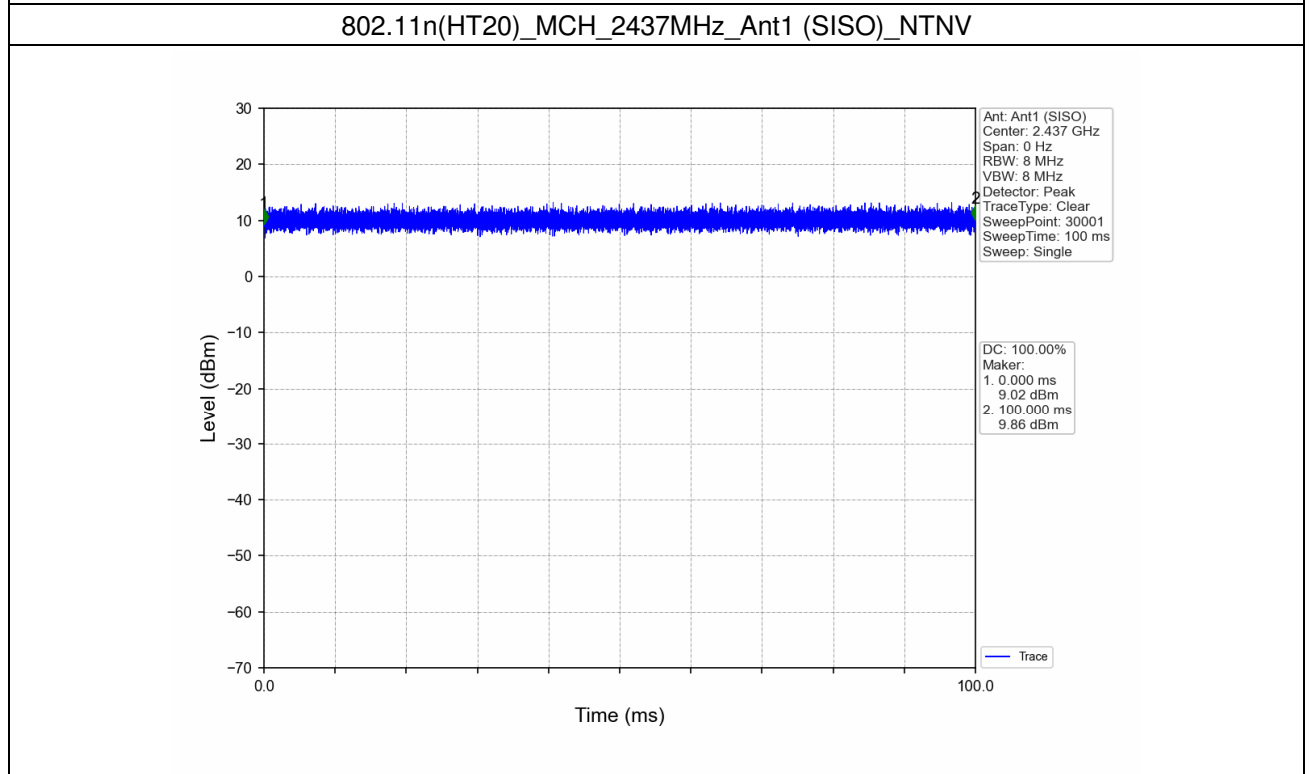
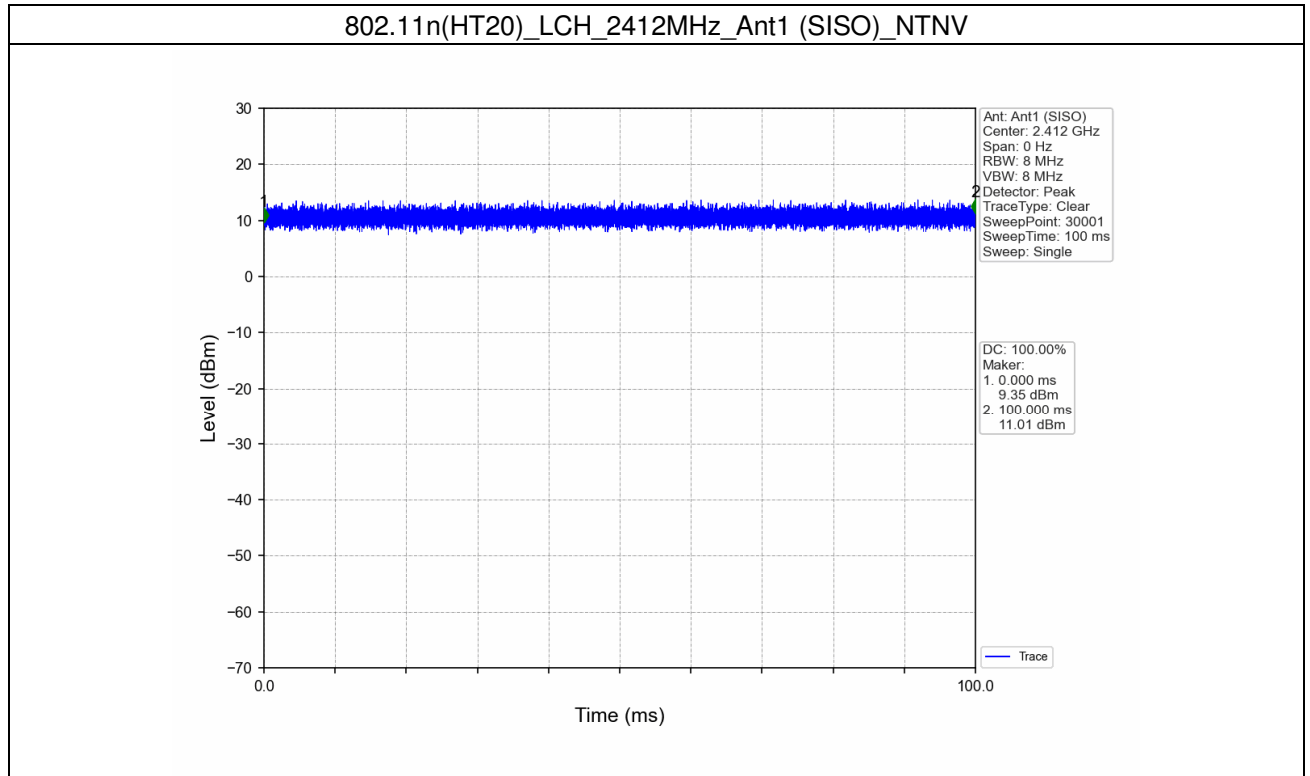


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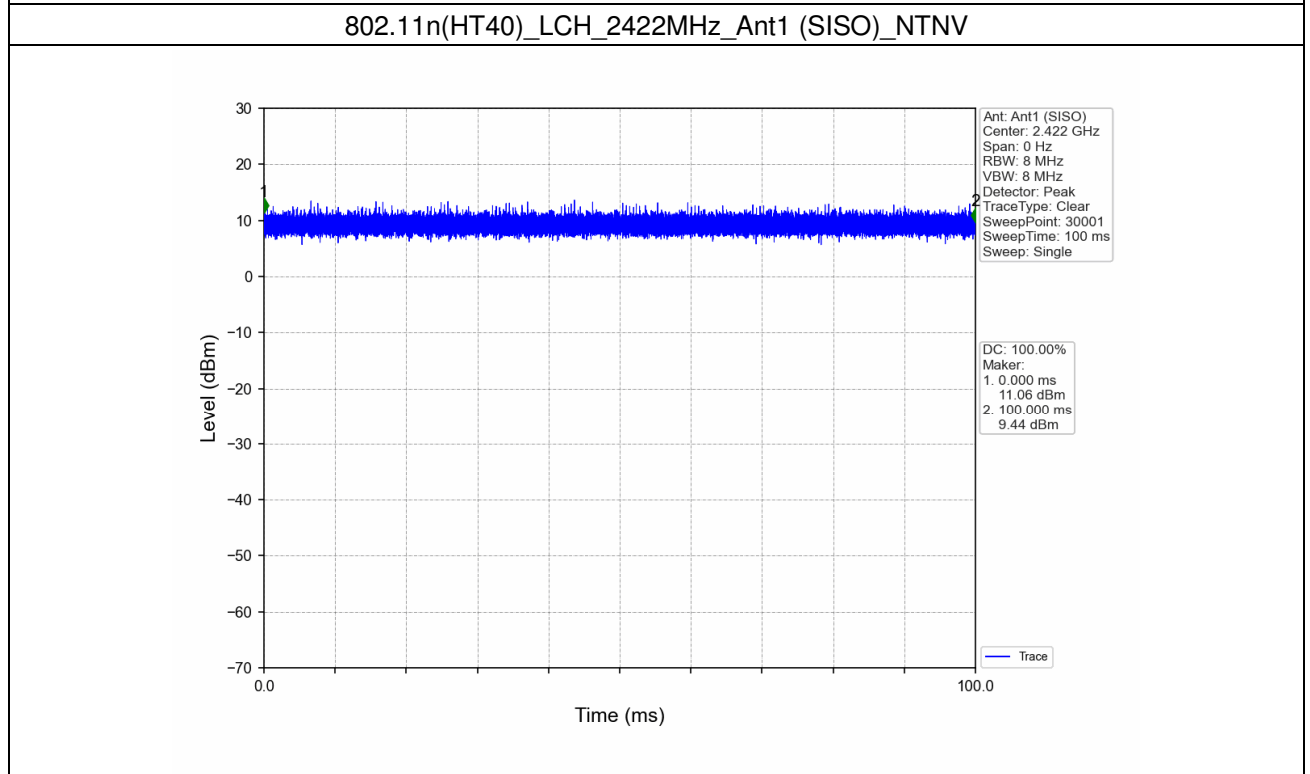
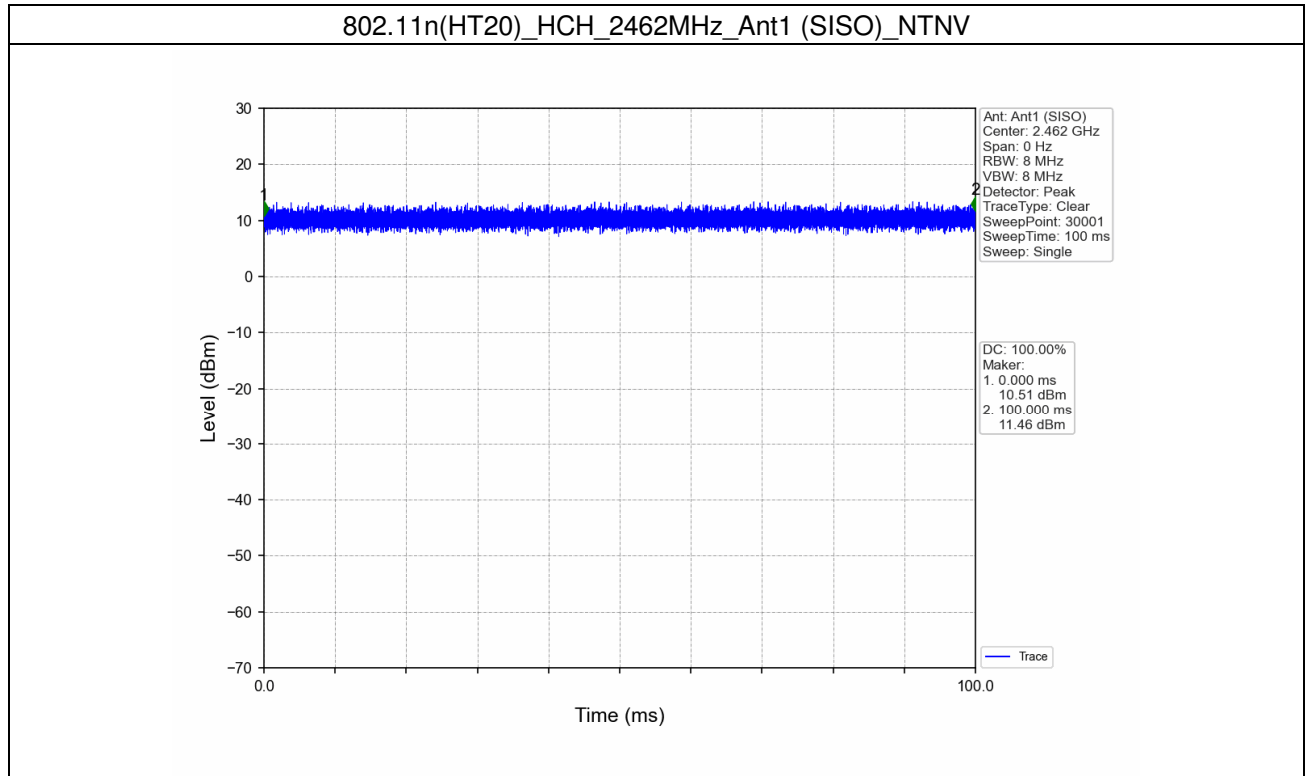


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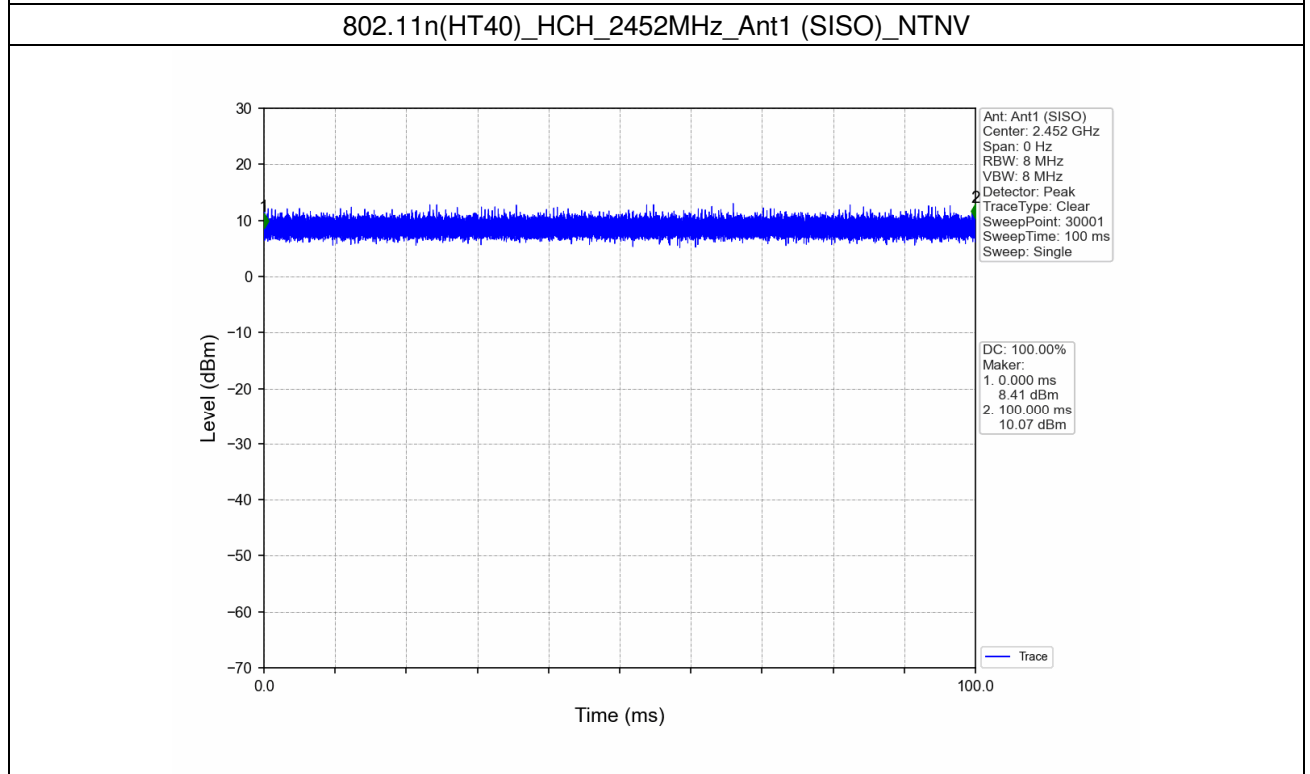
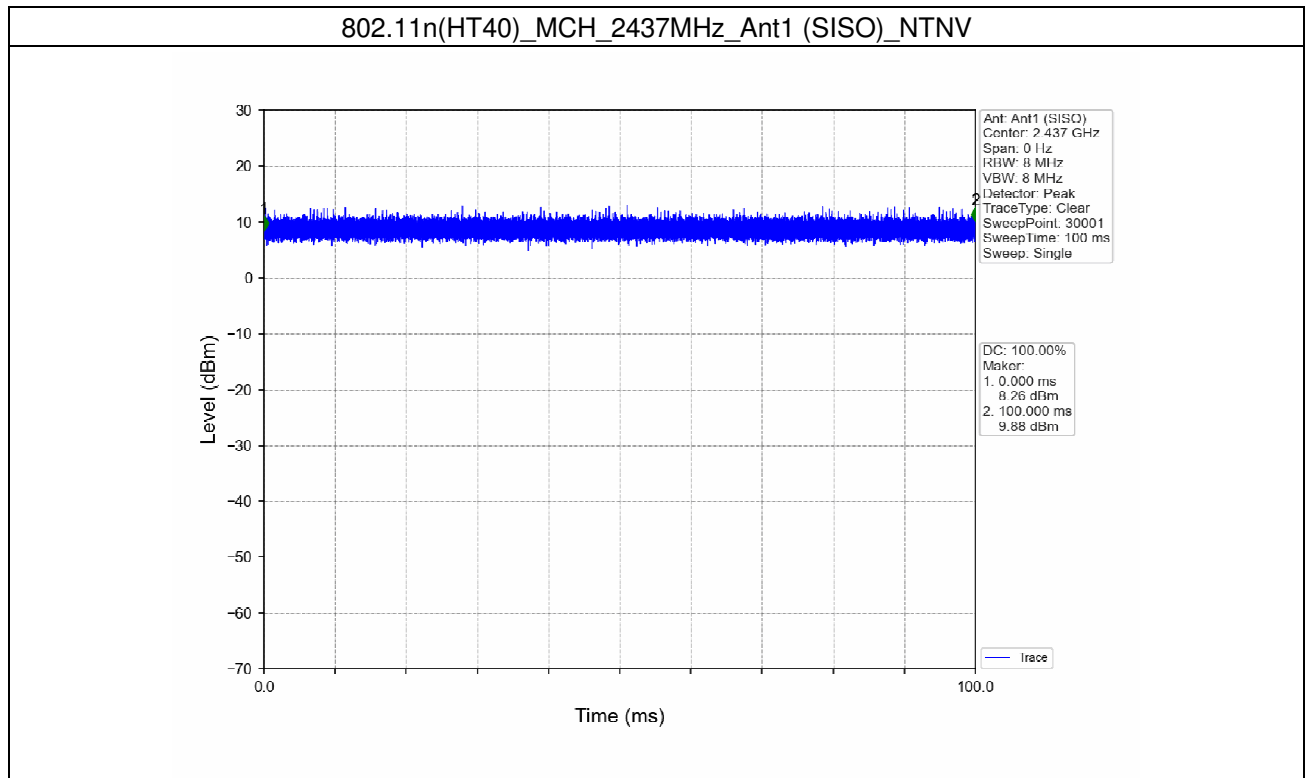


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2. Bandwidth

2.1 OBW

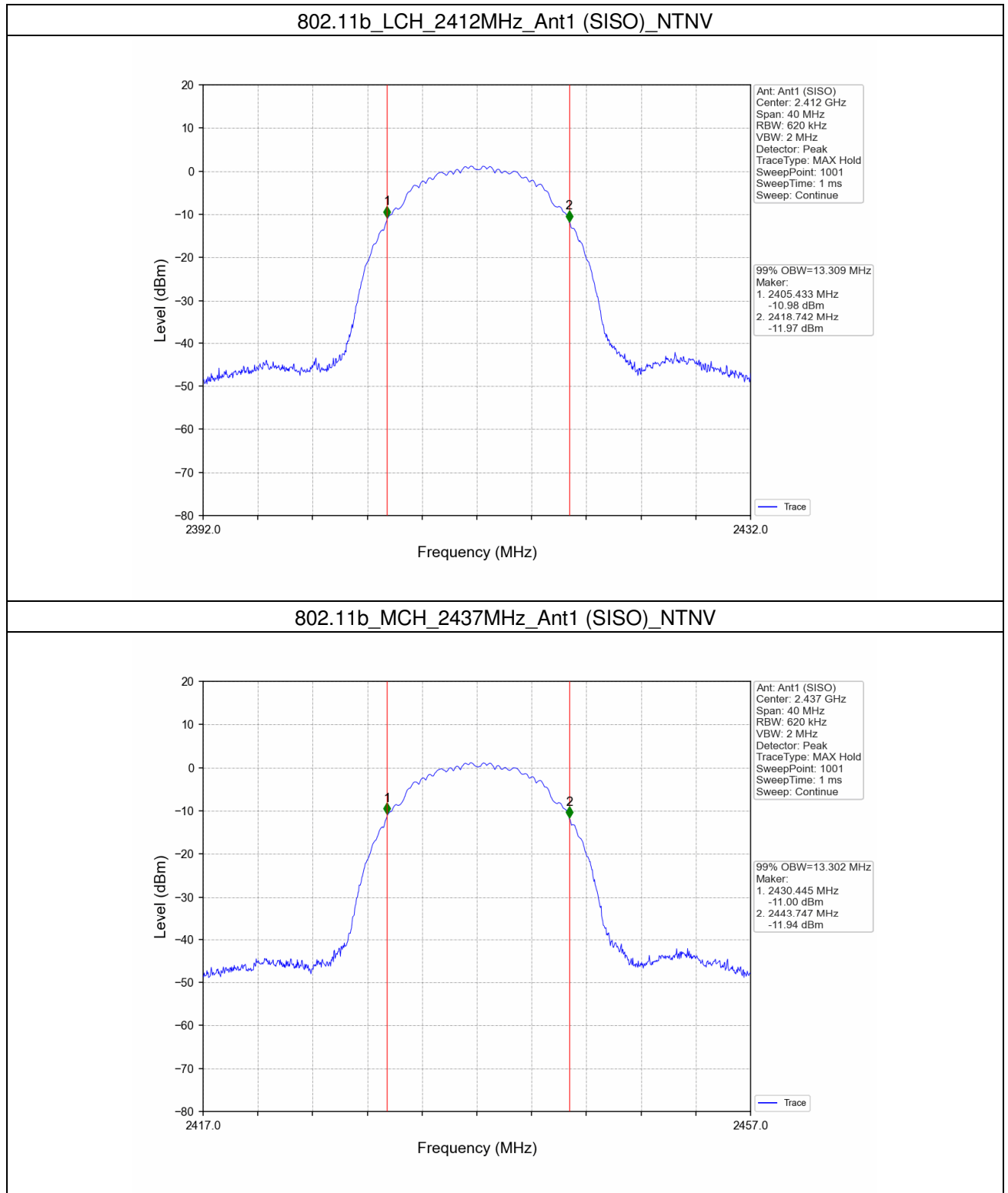
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.309	Pass
		2437	1	13.302	Pass
		2462	1	13.262	Pass
802.11g	SISO	2412	1	16.869	Pass
		2437	1	16.866	Pass
		2462	1	16.854	Pass
802.11n (HT20)	SISO	2412	1	17.523	Pass
		2437	1	17.510	Pass
		2462	1	17.518	Pass
802.11n (HT40)	SISO	2422	1	34.992	Pass
		2437	1	35.009	Pass
		2452	1	34.953	Pass



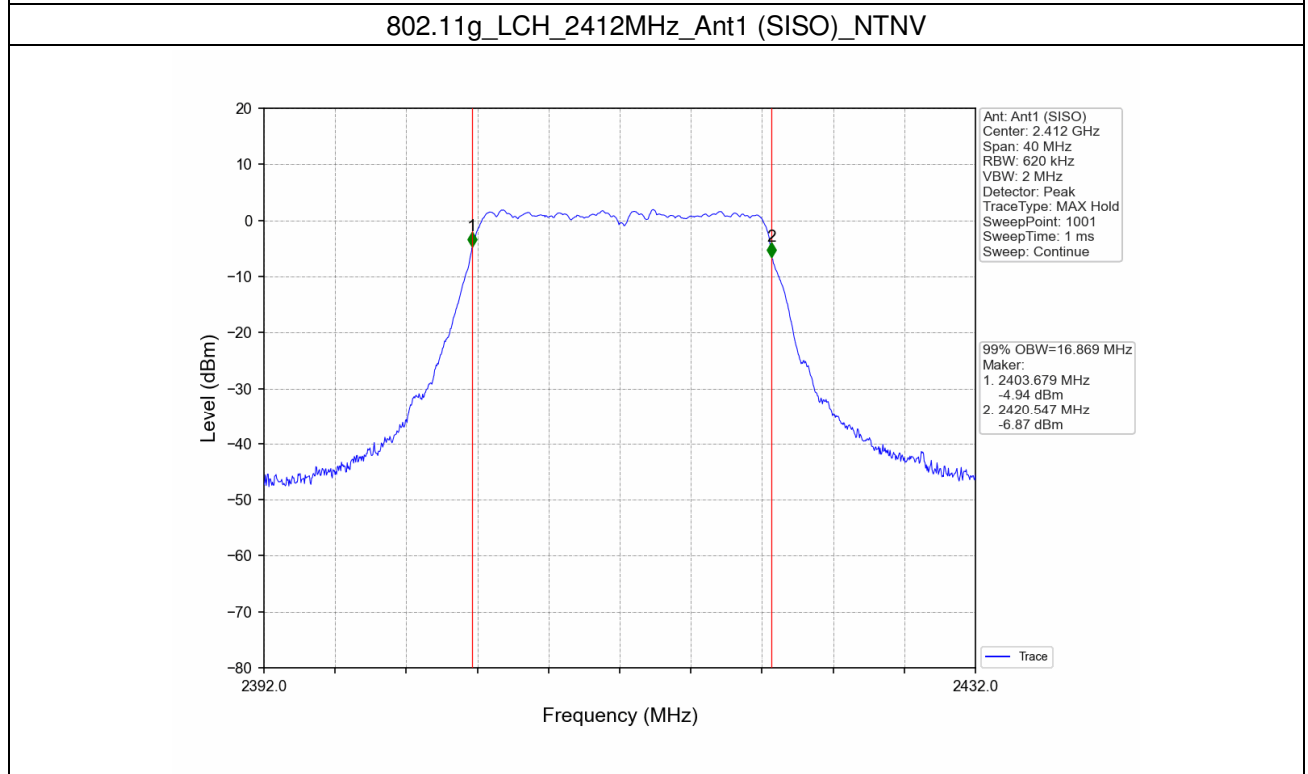
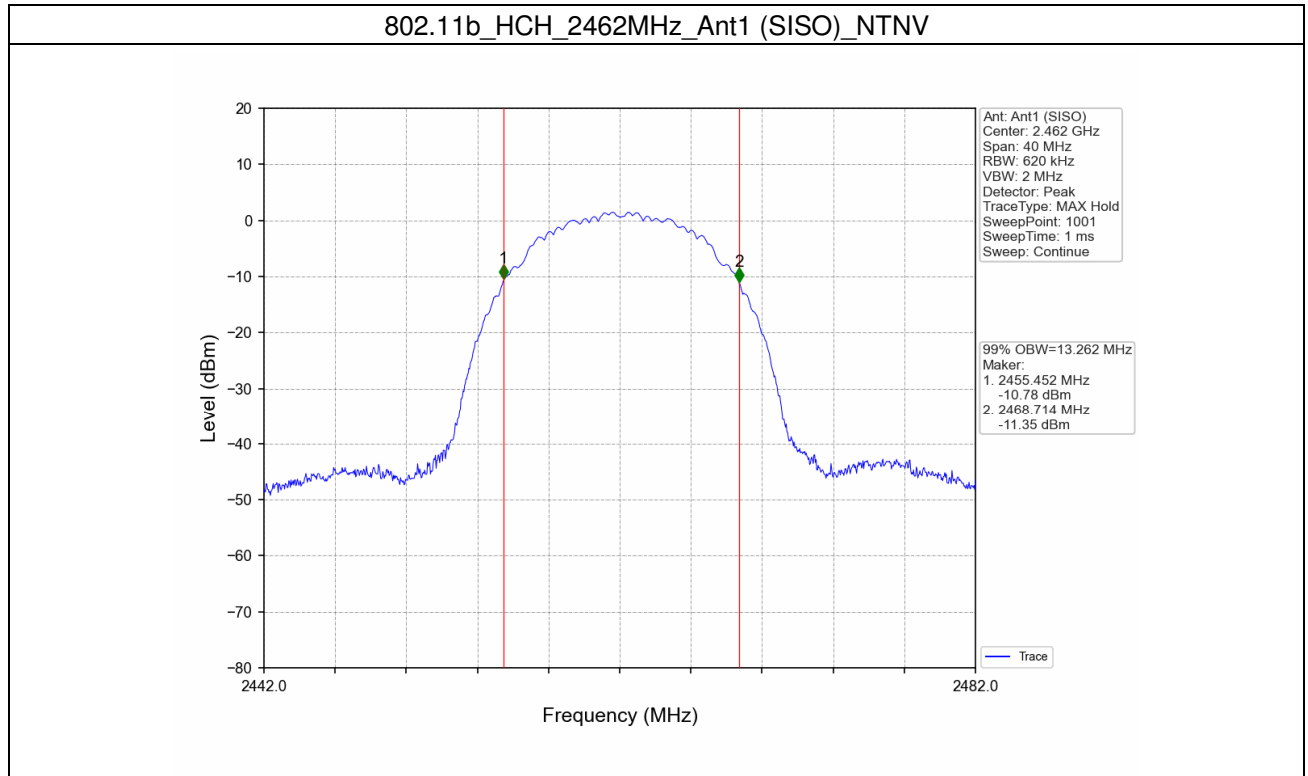
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2.1.2 Test Graph



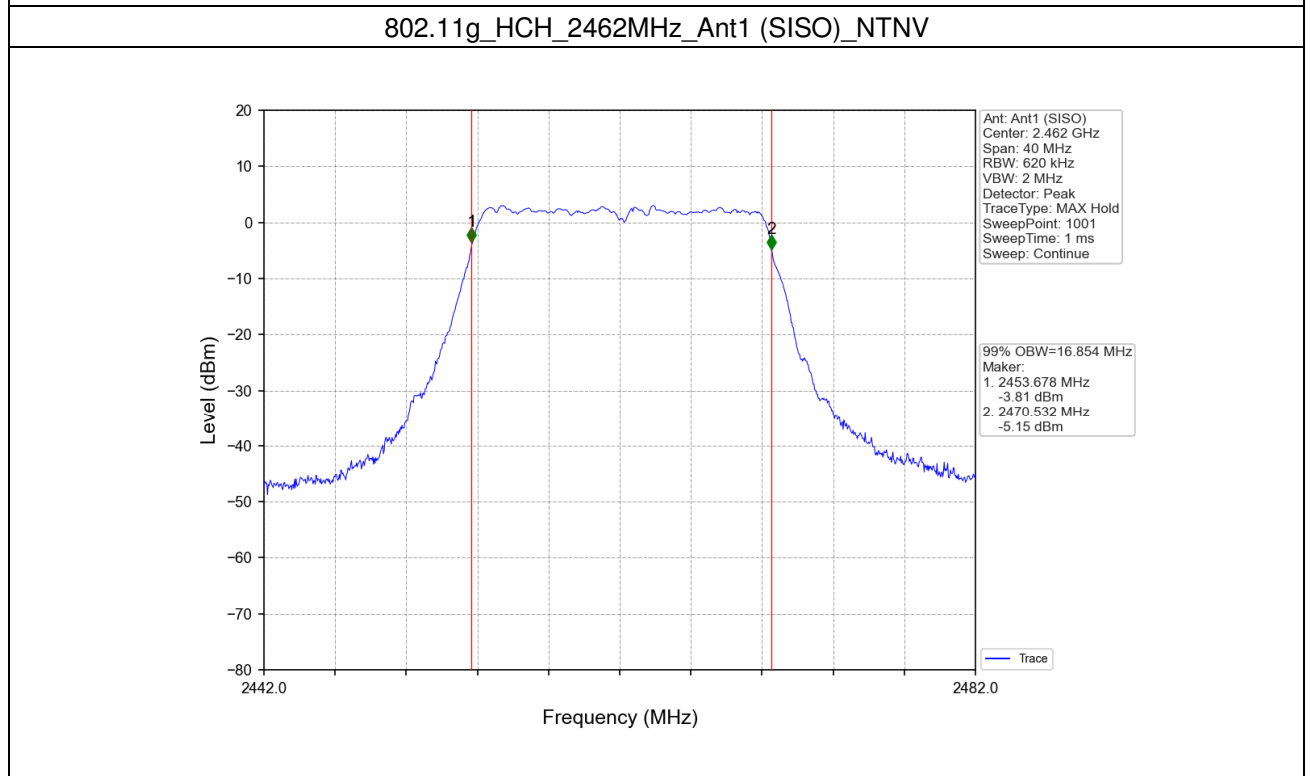
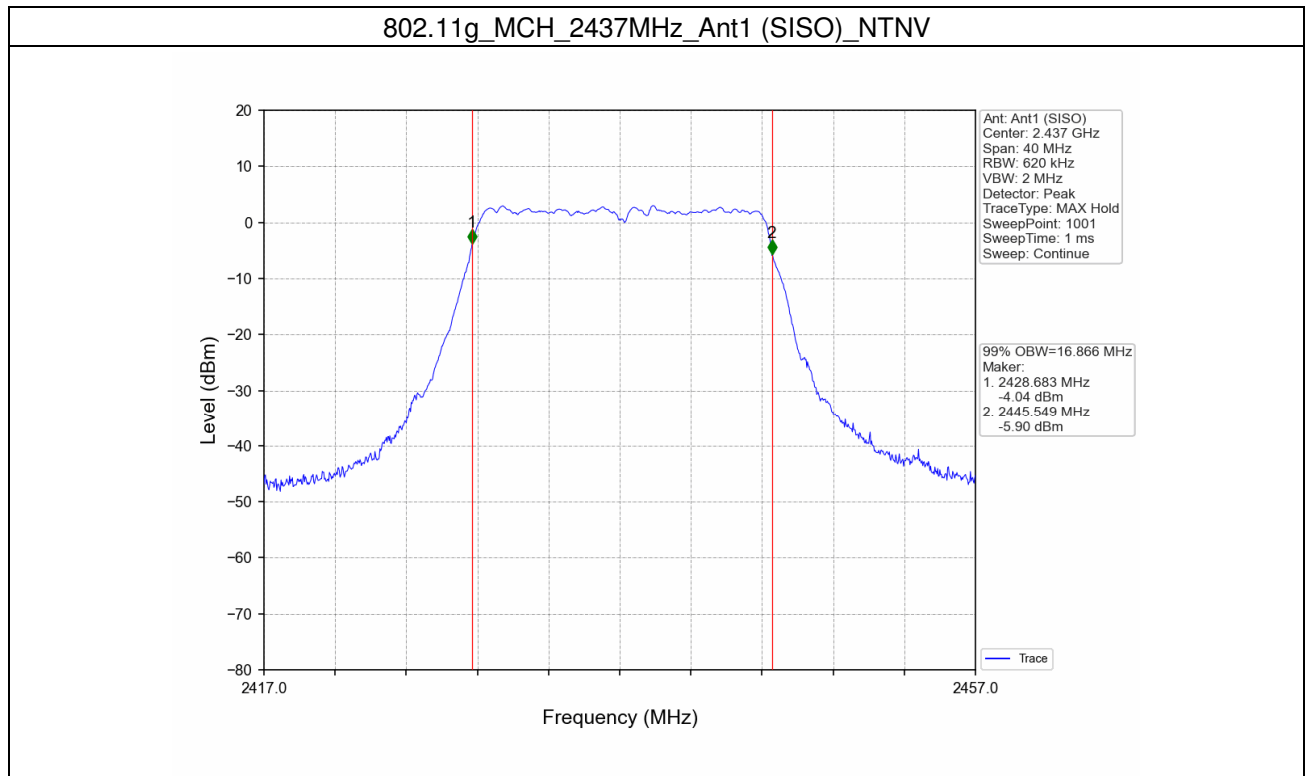
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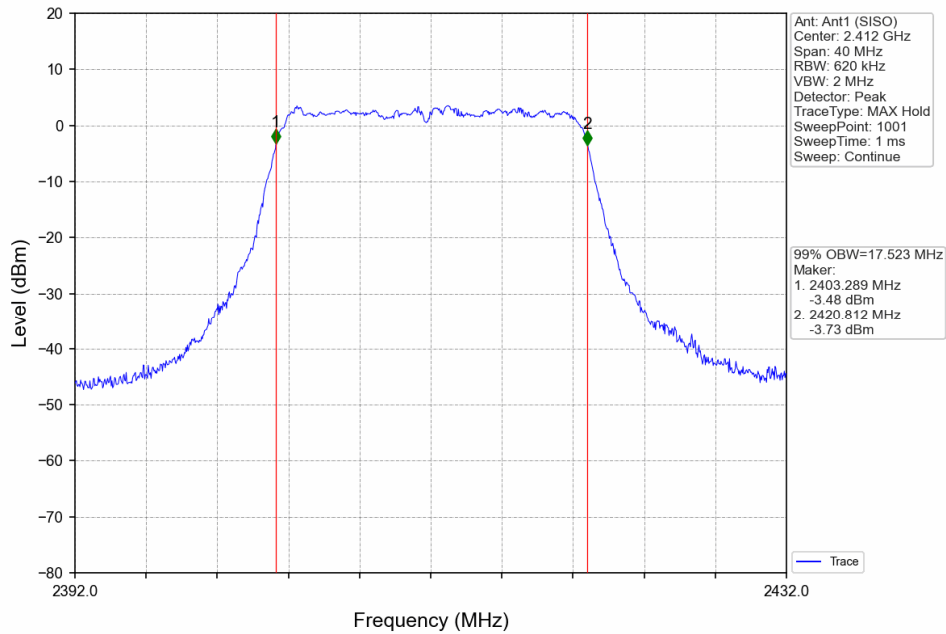
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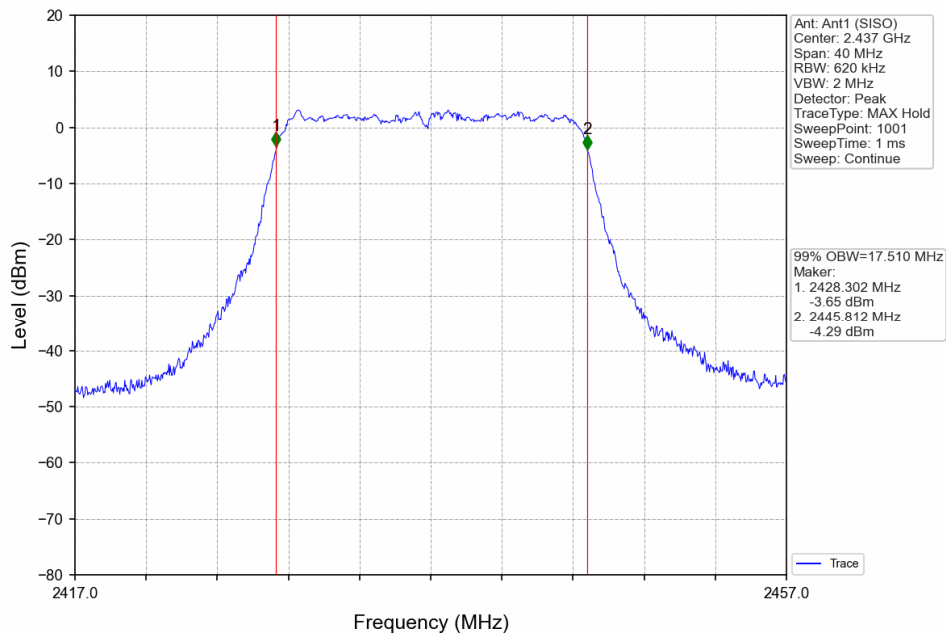
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

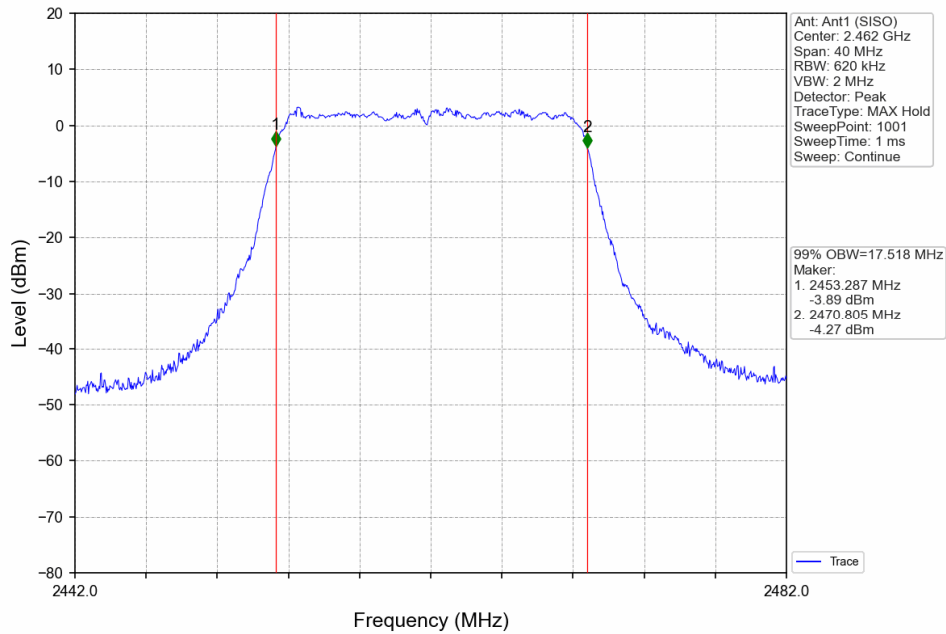


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

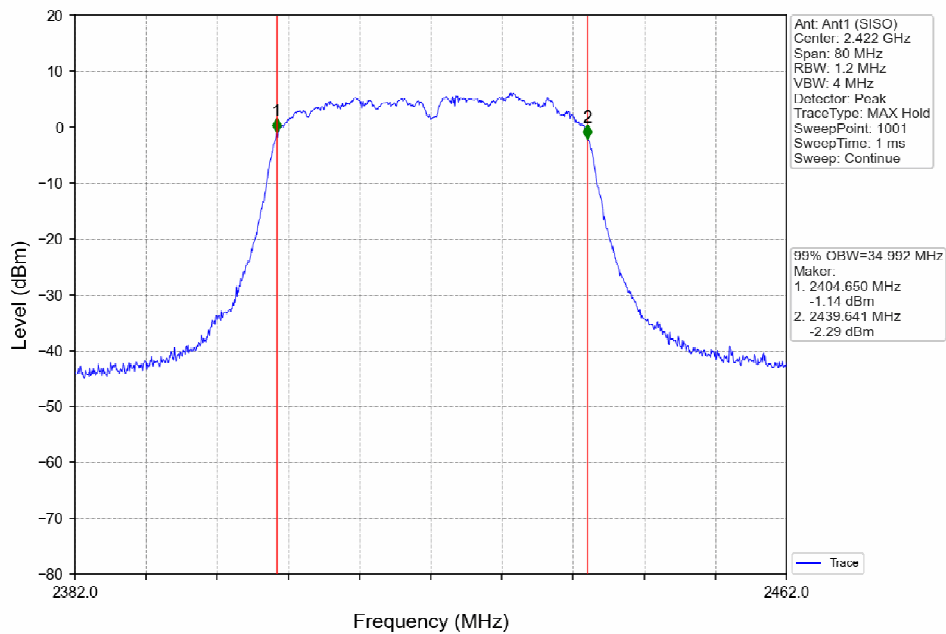


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

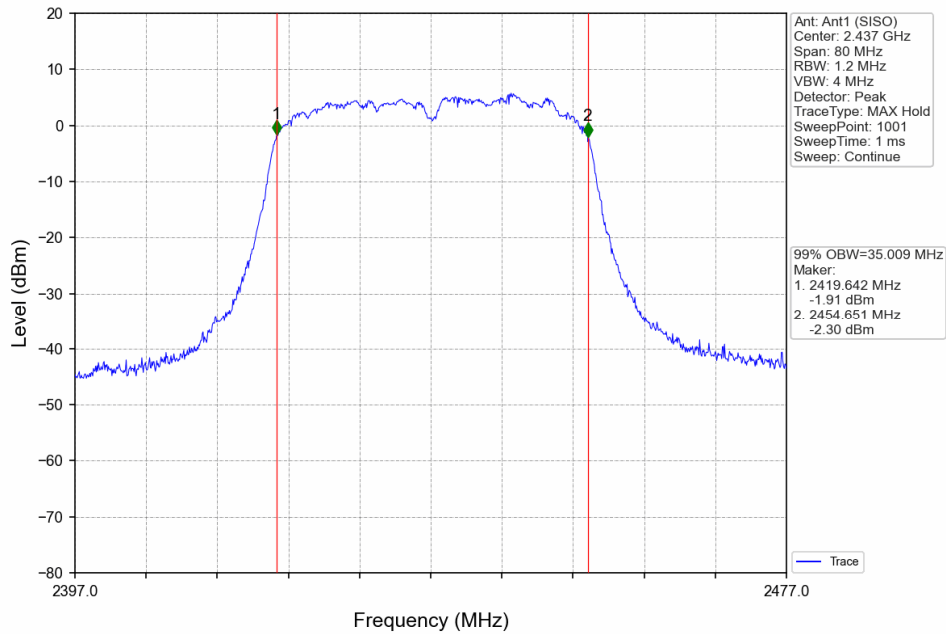


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

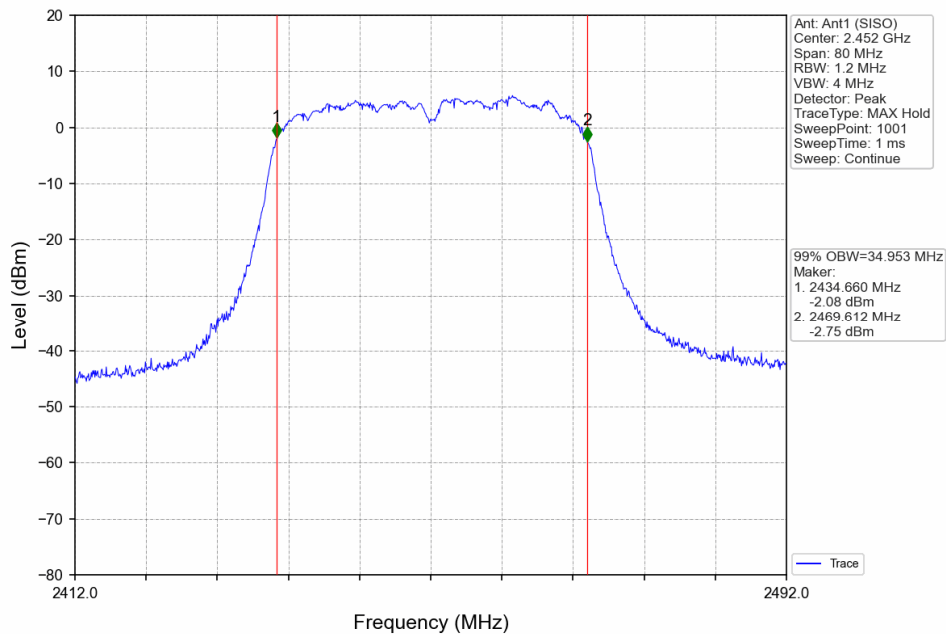


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

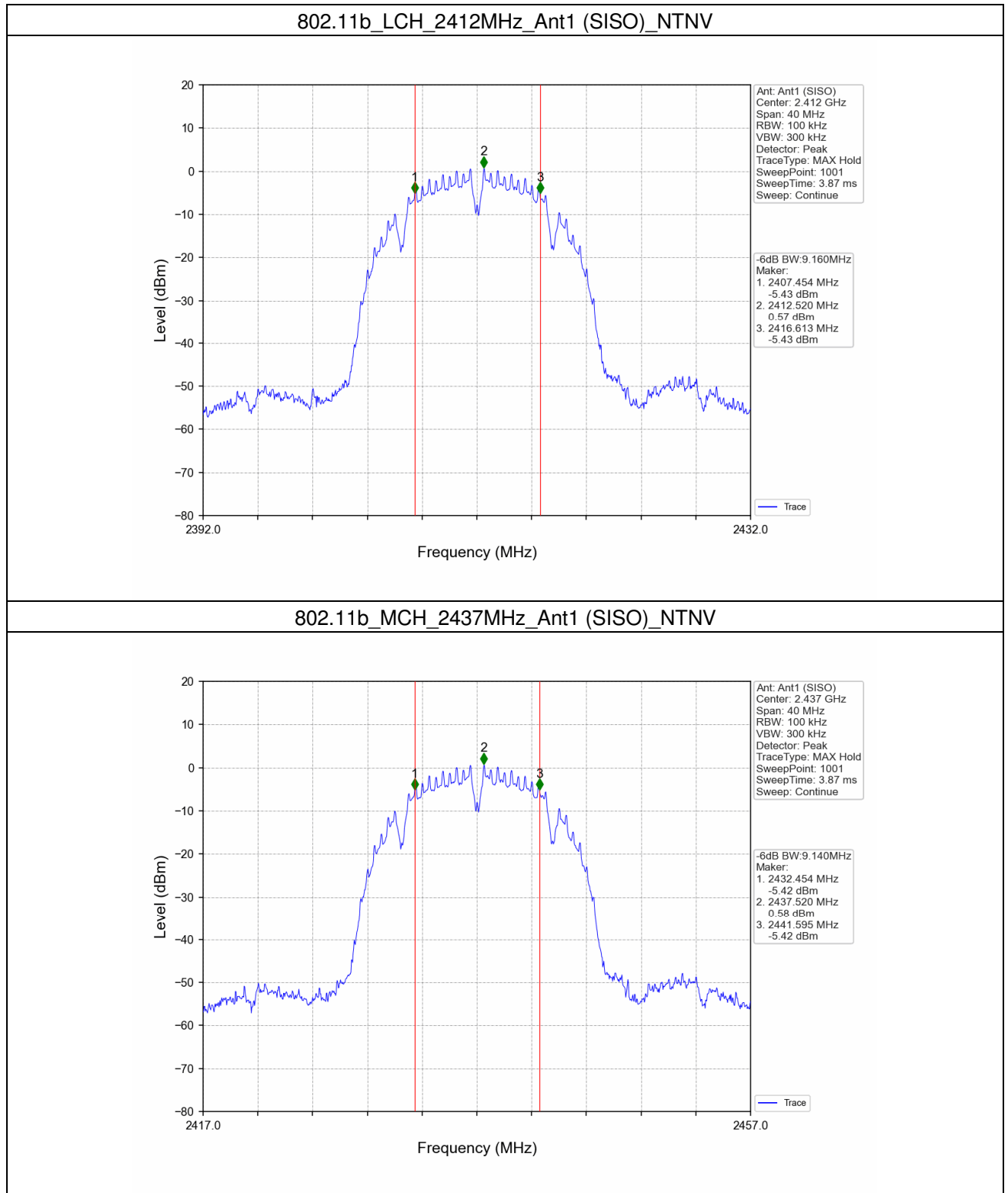
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.160	>=0.5	Pass
		2437	1	9.140	>=0.5	Pass
		2462	1	9.154	>=0.5	Pass
802.11g	SISO	2412	1	16.460	>=0.5	Pass
		2437	1	16.461	>=0.5	Pass
		2462	1	16.458	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.354	>=0.5	Pass
		2437	1	17.372	>=0.5	Pass
		2462	1	17.370	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	33.383	>=0.5	Pass
		2437	1	33.595	>=0.5	Pass
		2452	1	33.361	>=0.5	Pass



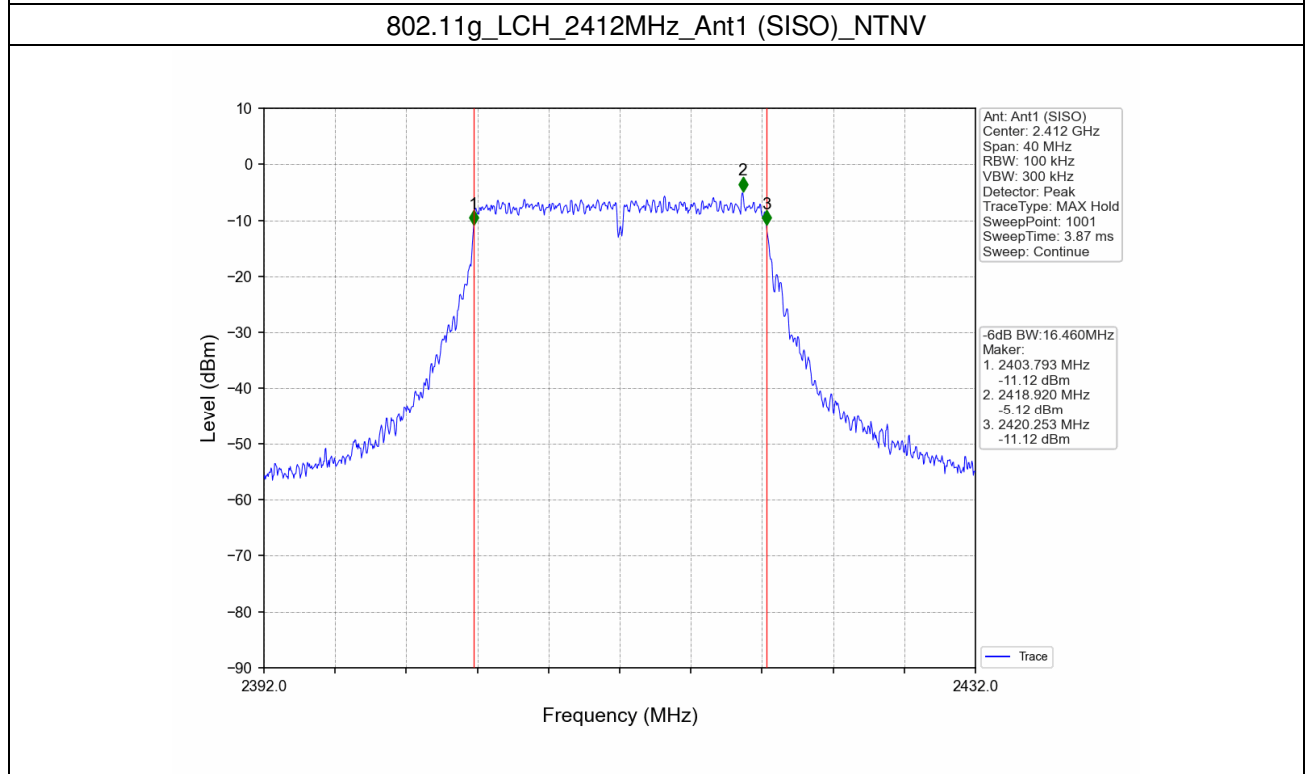
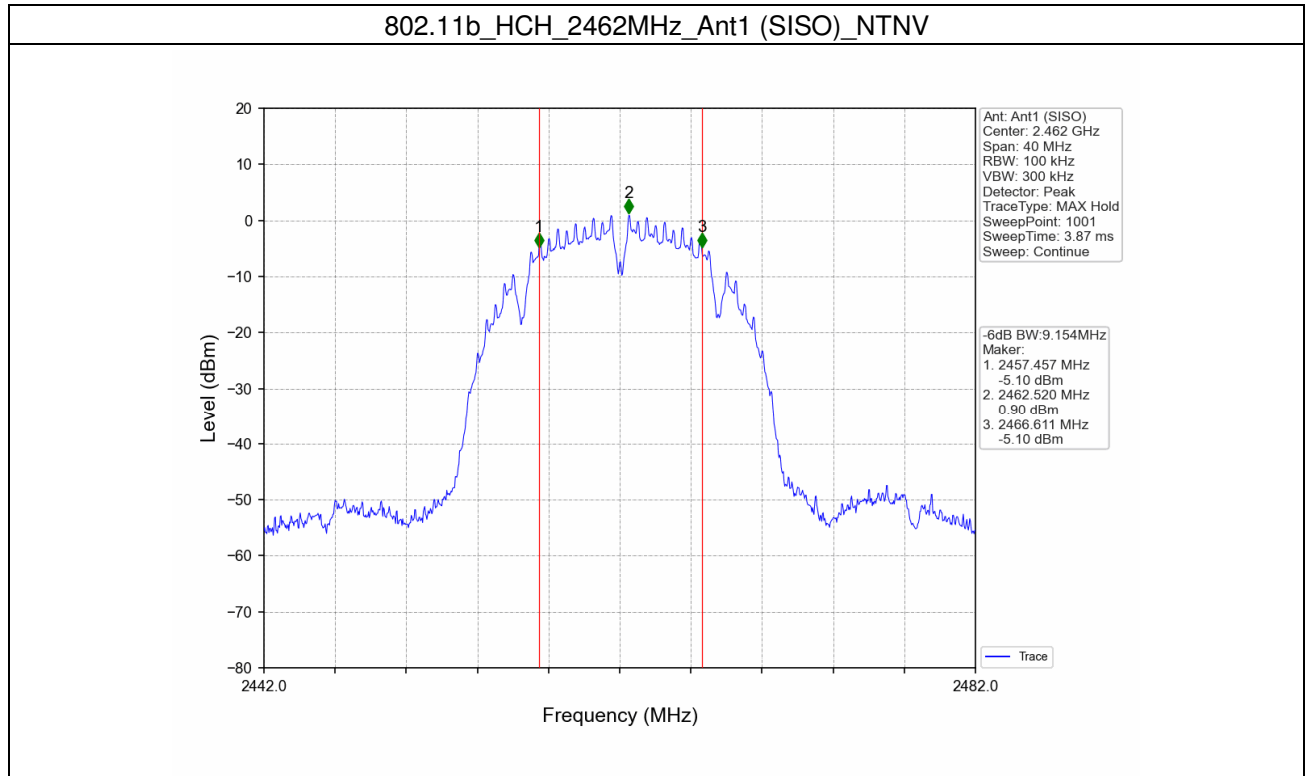
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2.2.2 Test Graph

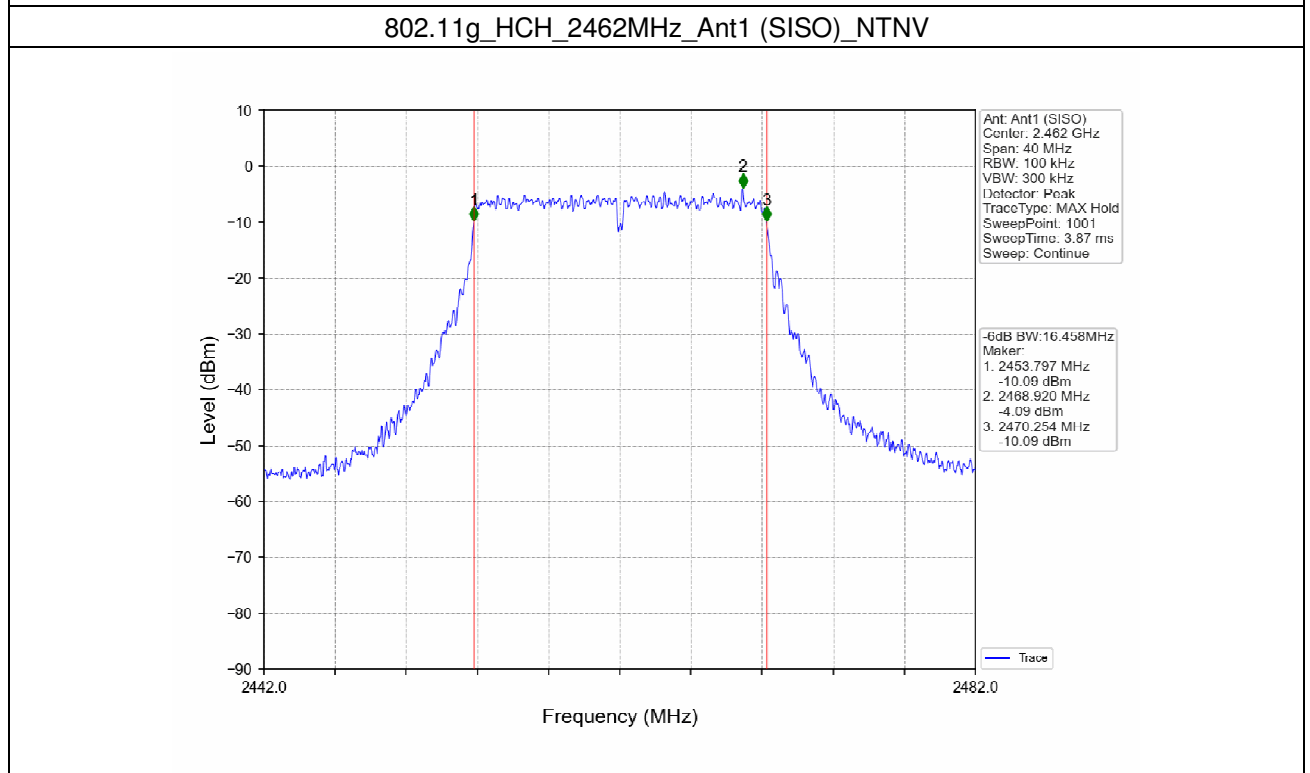
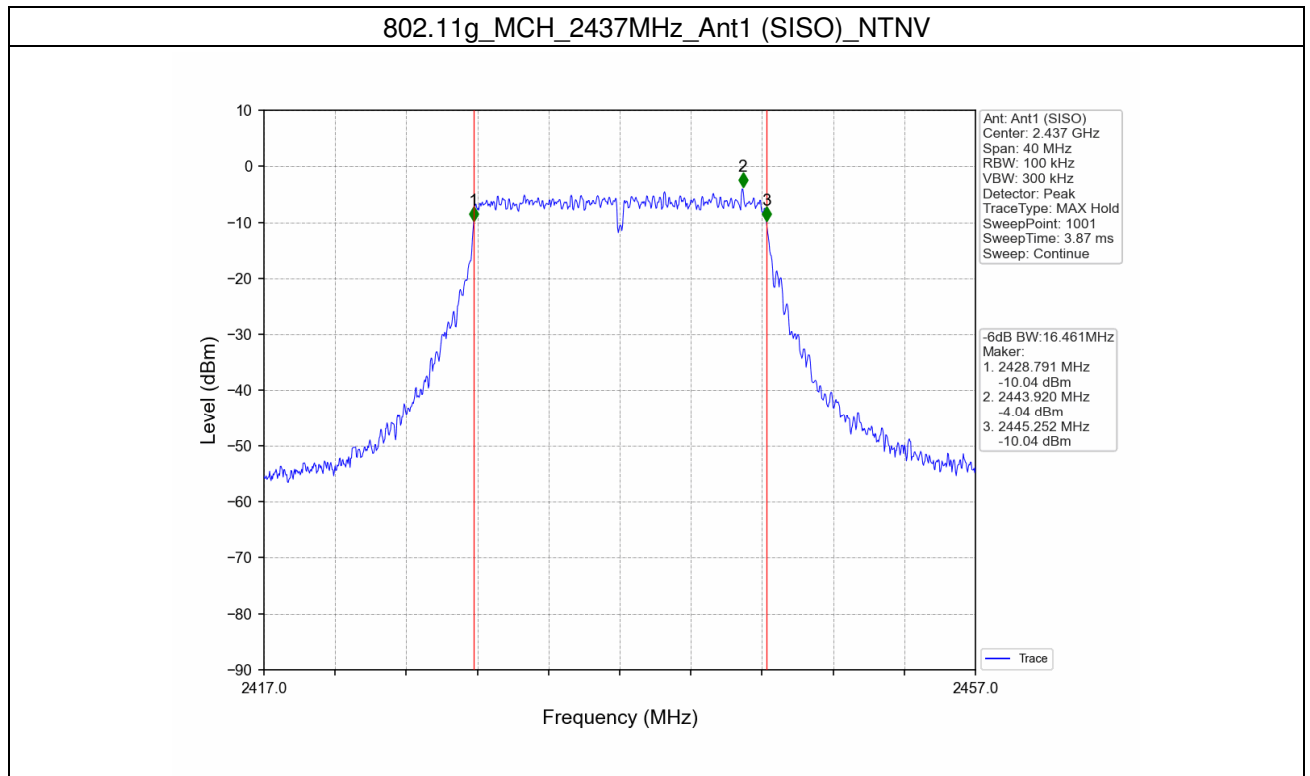


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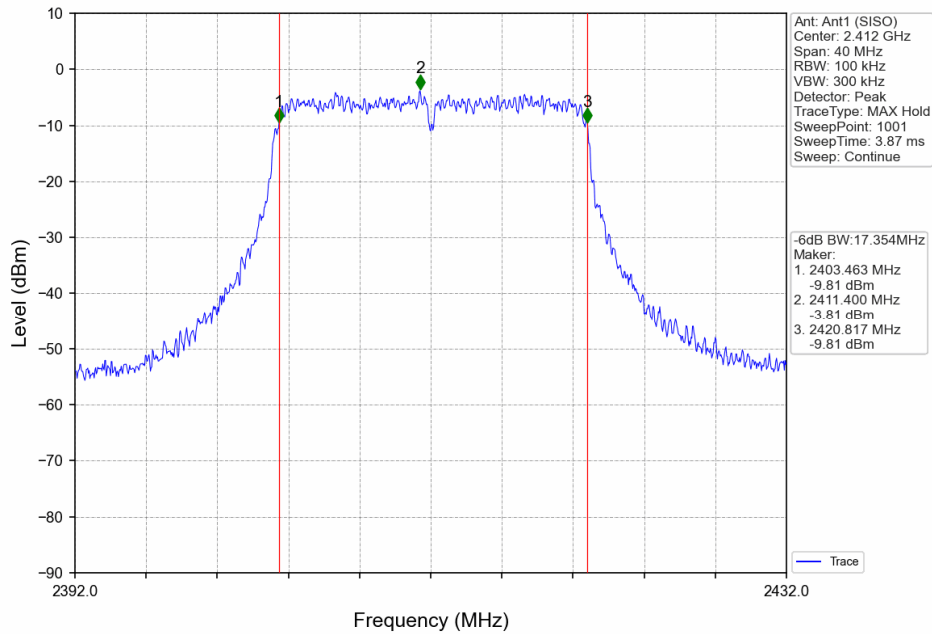


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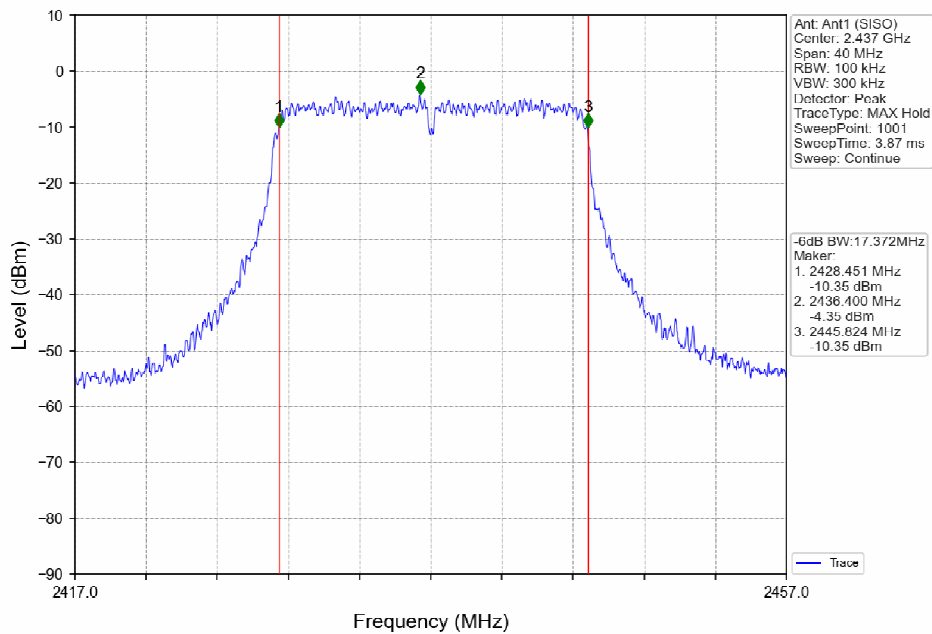
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

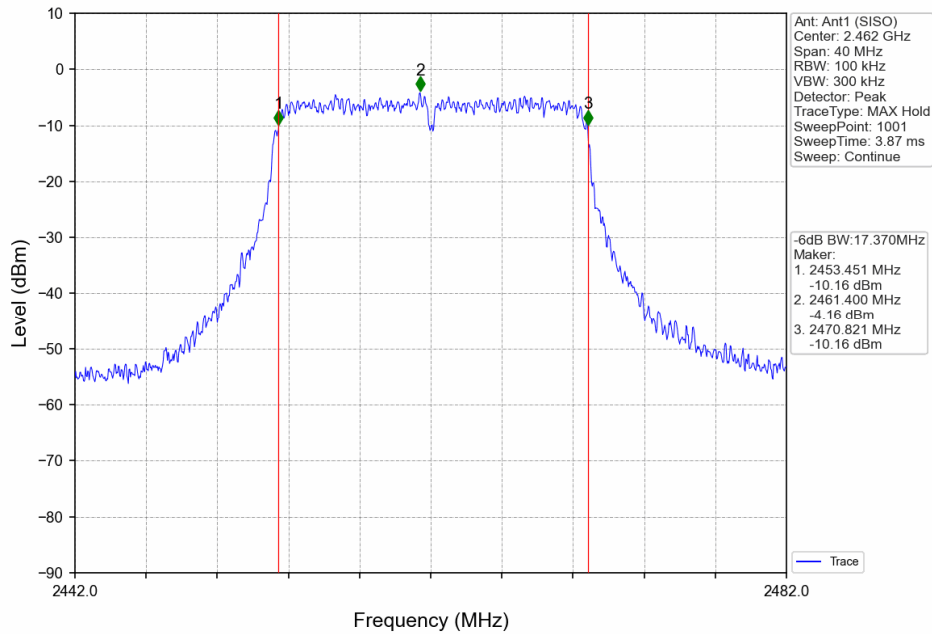


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

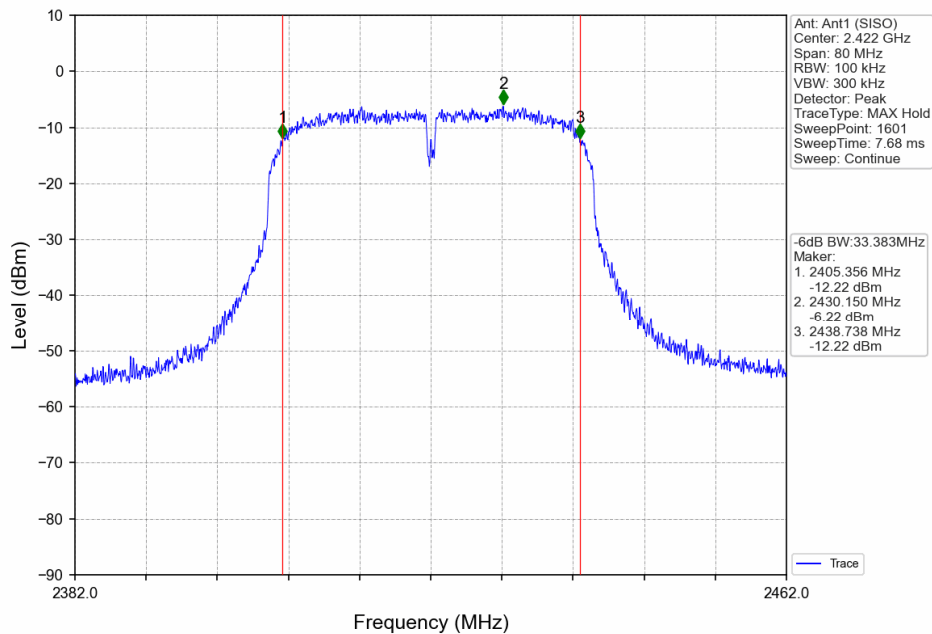


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

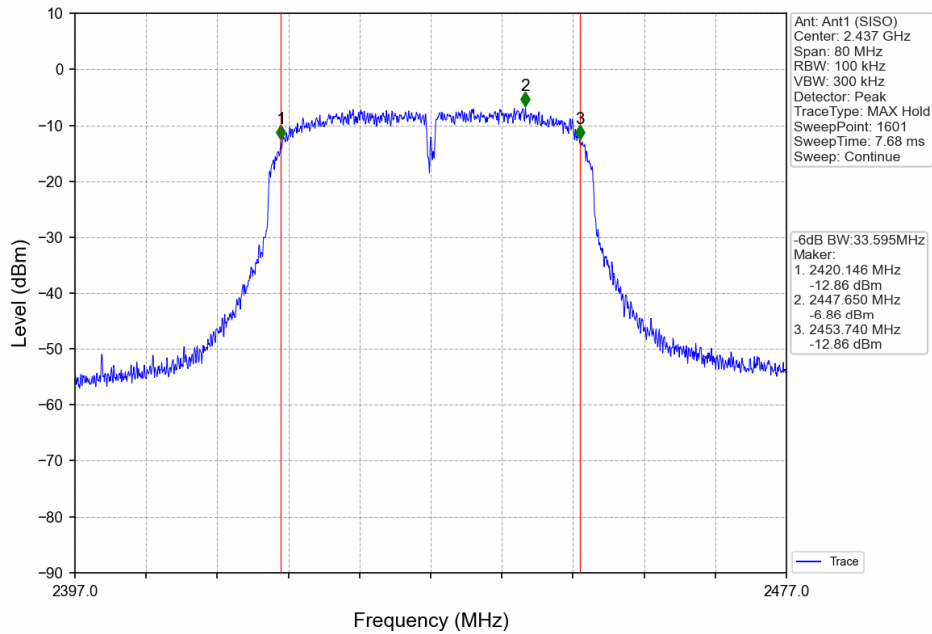


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

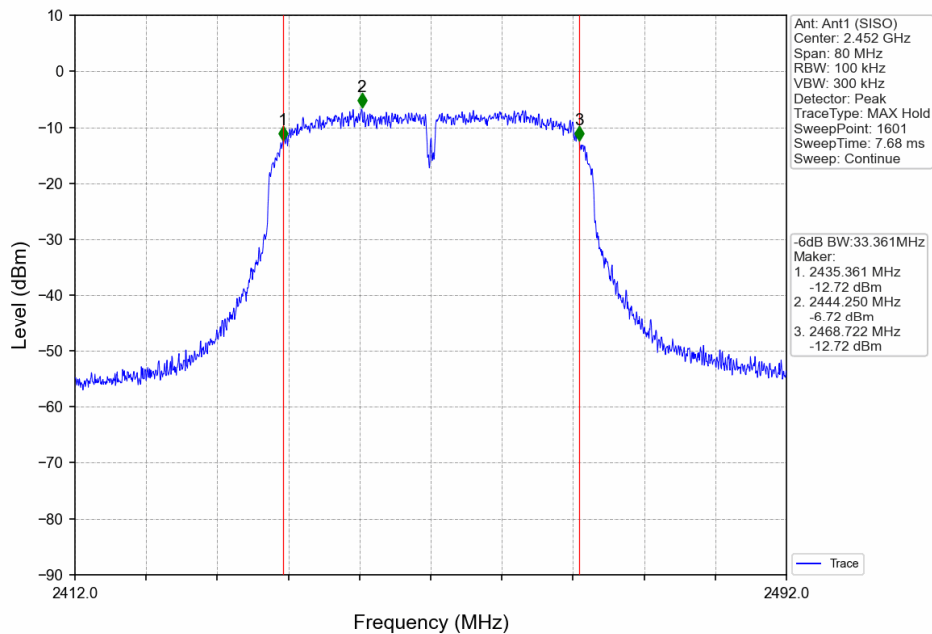


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	Limit	
802.11b	SISO	2412	9.03	<=30	Pass
		2437	9.05	<=30	Pass
		2462	9.18	<=30	Pass
802.11g	SISO	2412	8.88	<=30	Pass
		2437	8.58	<=30	Pass
		2462	8.61	<=30	Pass
802.11n (HT20)	SISO	2412	8.73	<=30	Pass
		2437	8.29	<=30	Pass
		2462	8.38	<=30	Pass
802.11n (HT40)	SISO	2422	9.44	<=30	Pass
		2437	9.14	<=30	Pass
		2452	9.18	<=30	Pass

Note1: Antenna Gain: Ant1: 3dBi;

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	-15.72	<=8	Pass
		2437	-15.30	<=8	Pass
		2462	-15.03	<=8	Pass
802.11g	SISO	2412	-19.04	<=8	Pass
		2437	-18.66	<=8	Pass
		2462	-18.86	<=8	Pass
802.11n (HT20)	SISO	2412	-17.89	<=8	Pass
		2437	-19.15	<=8	Pass
		2462	-18.51	<=8	Pass
802.11n (HT40)	SISO	2422	-19.66	<=8	Pass
		2437	-18.49	<=8	Pass
		2452	-17.76	<=8	Pass

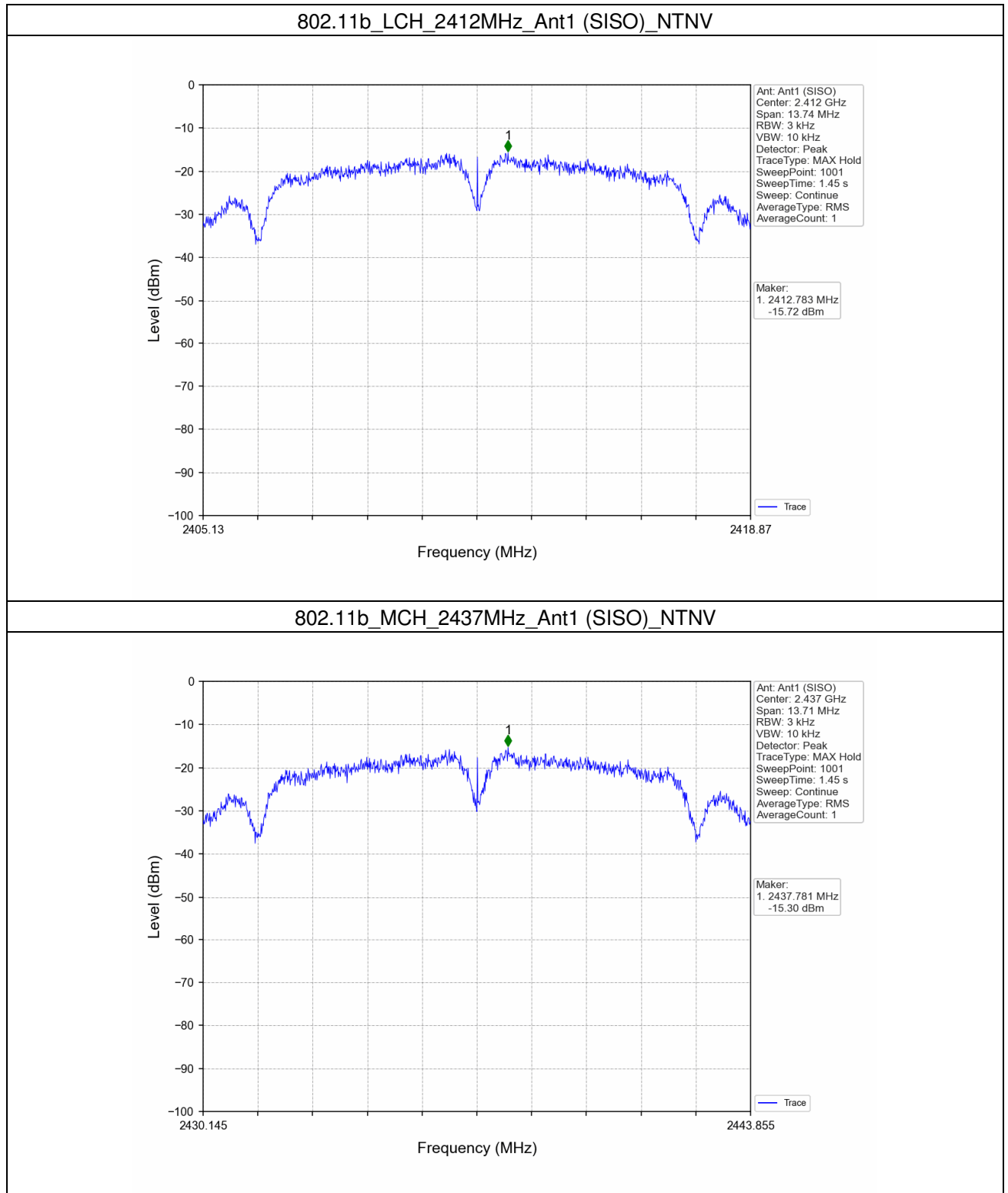
Note1: Antenna Gain: Ant1: 3dBi;



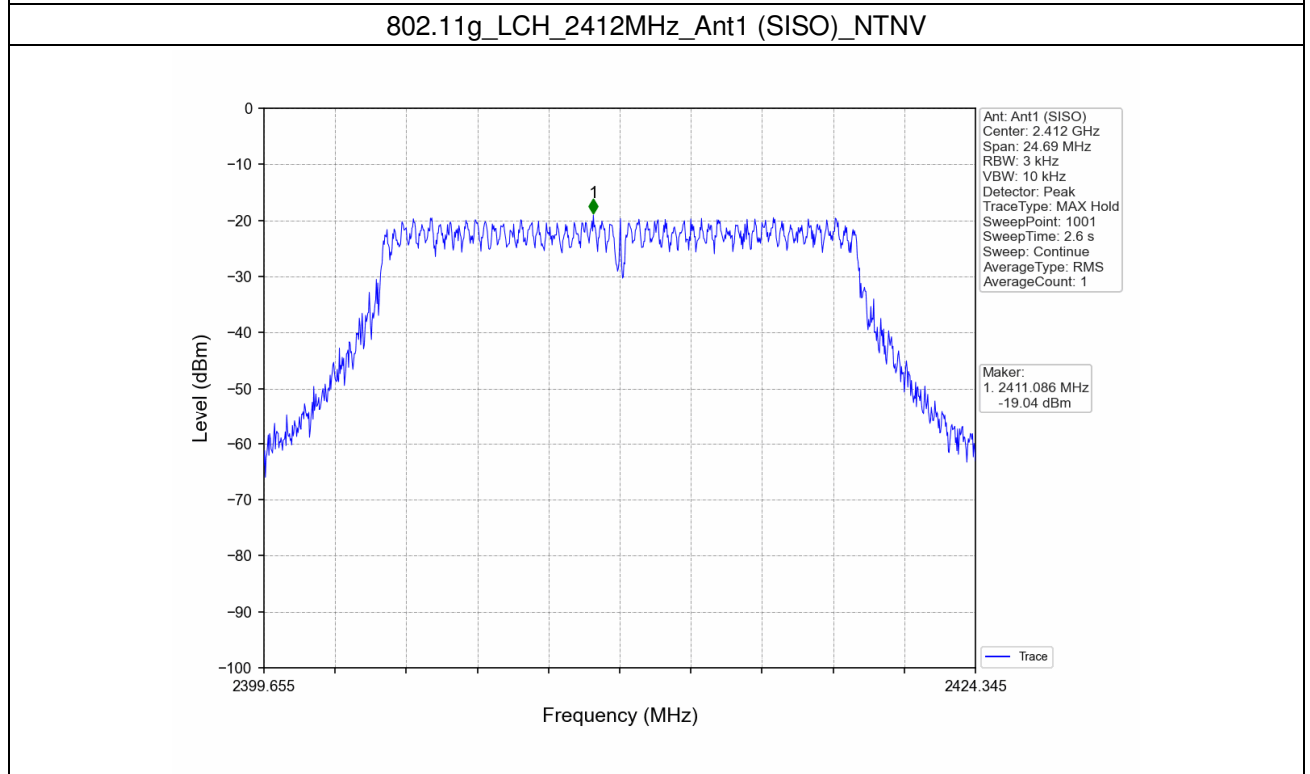
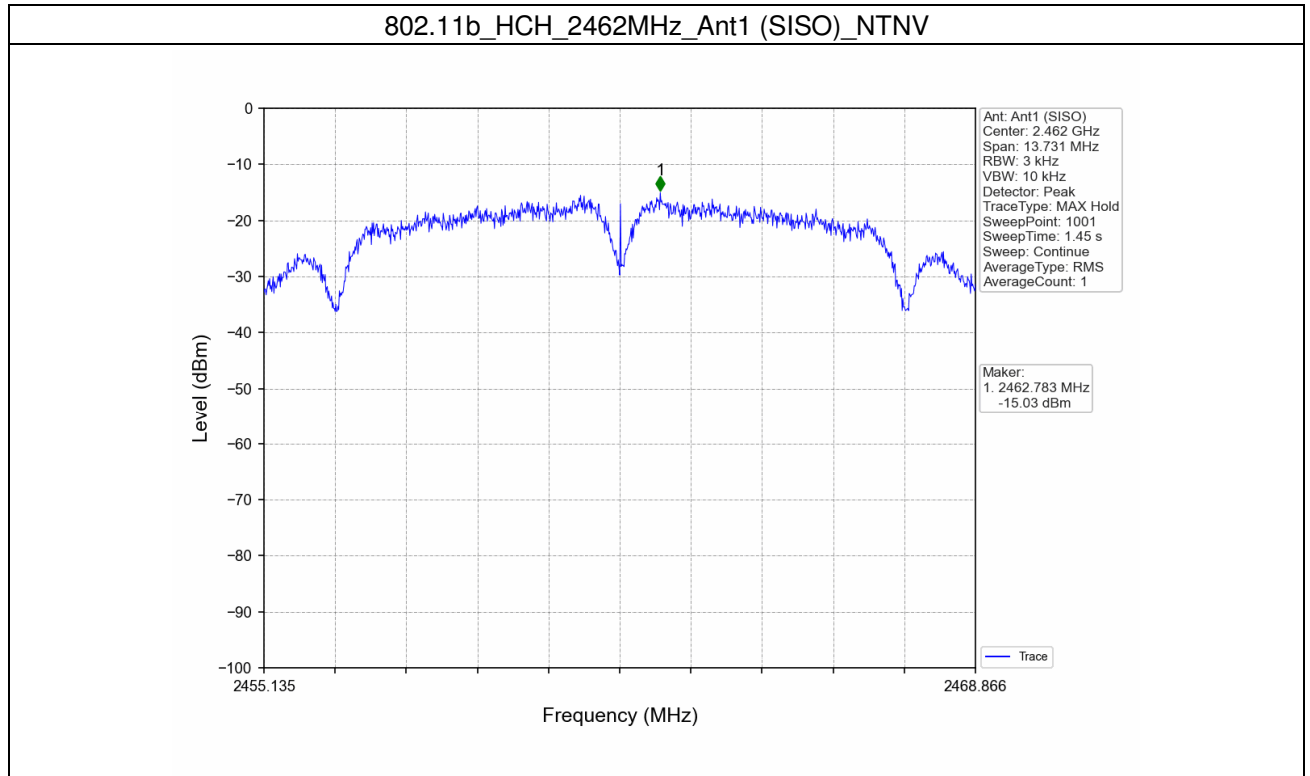
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4.1.2 Test Graph



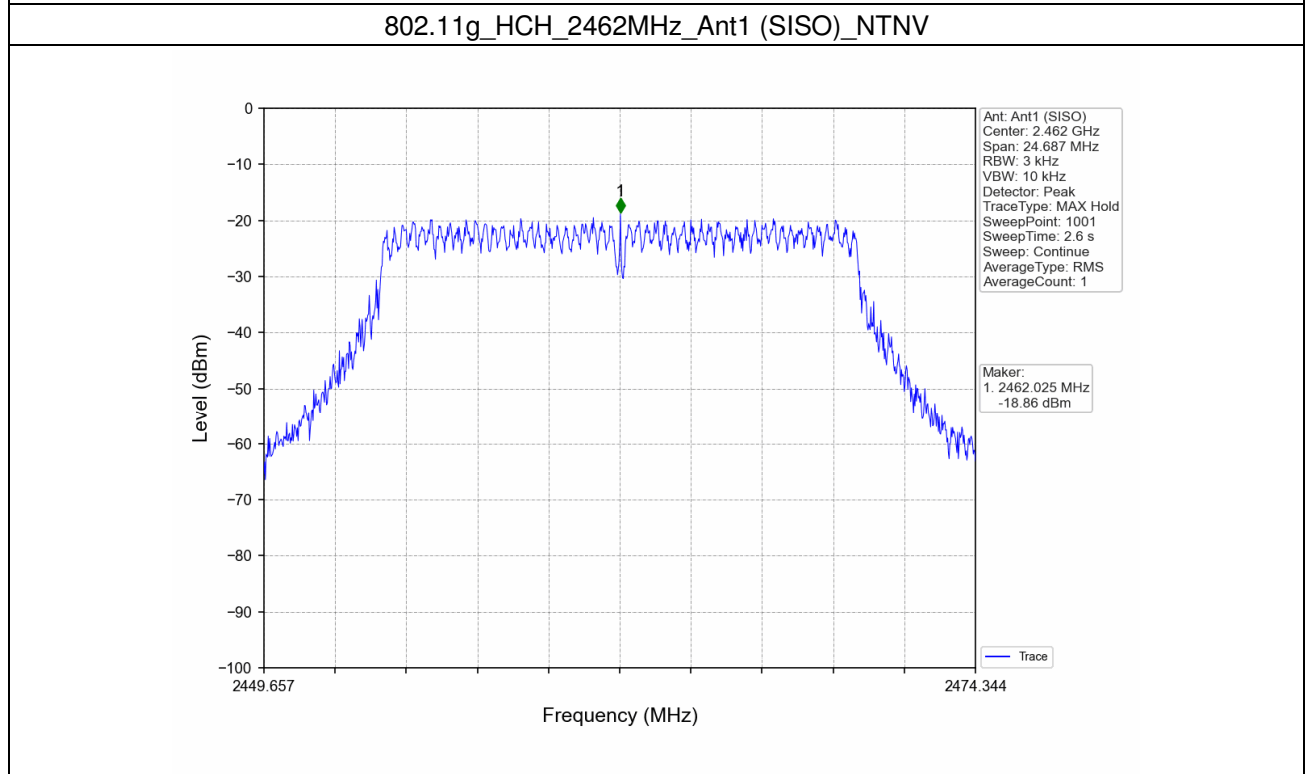
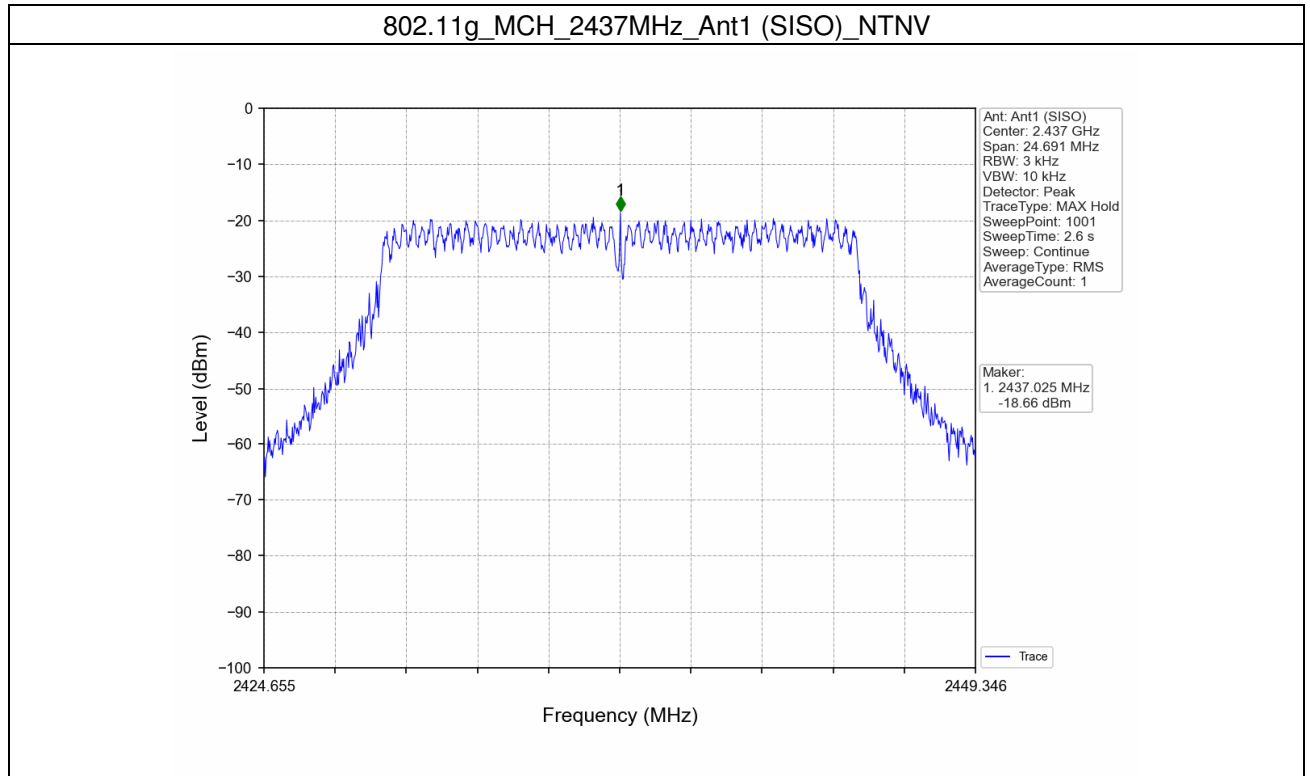
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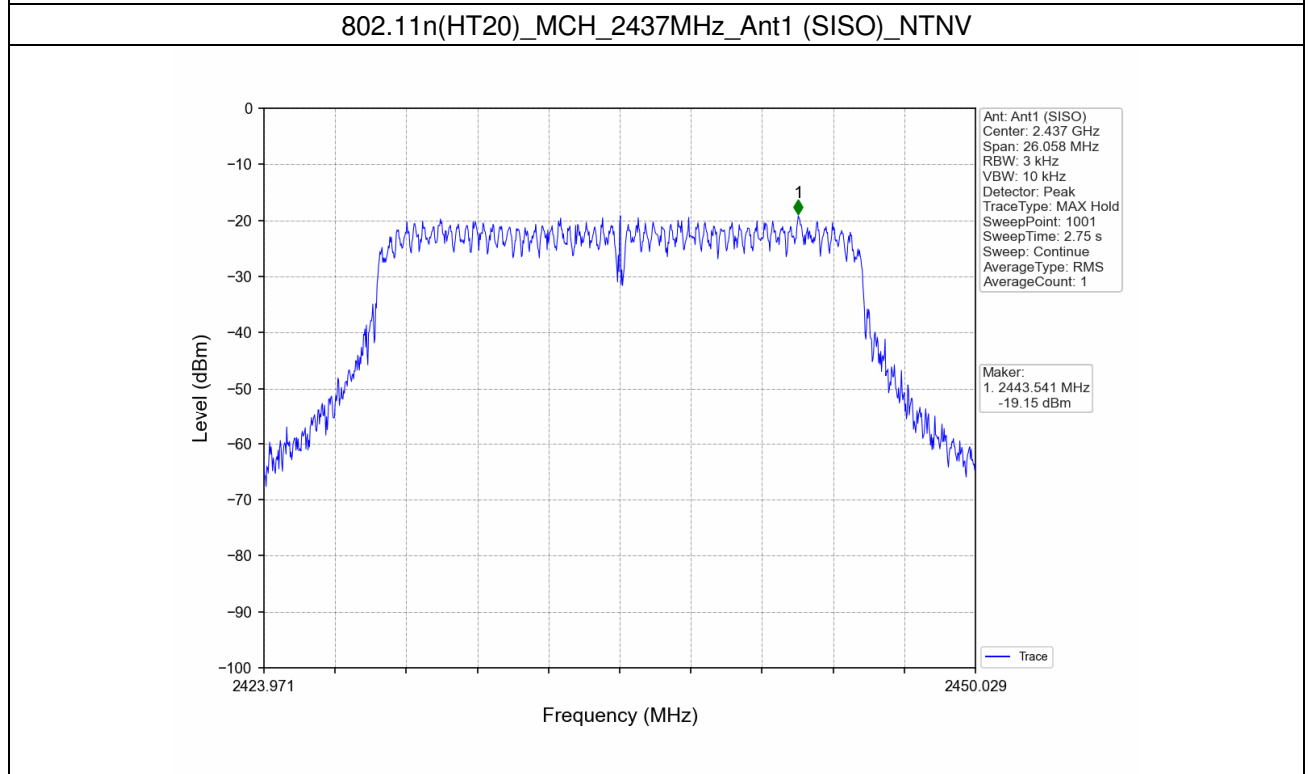
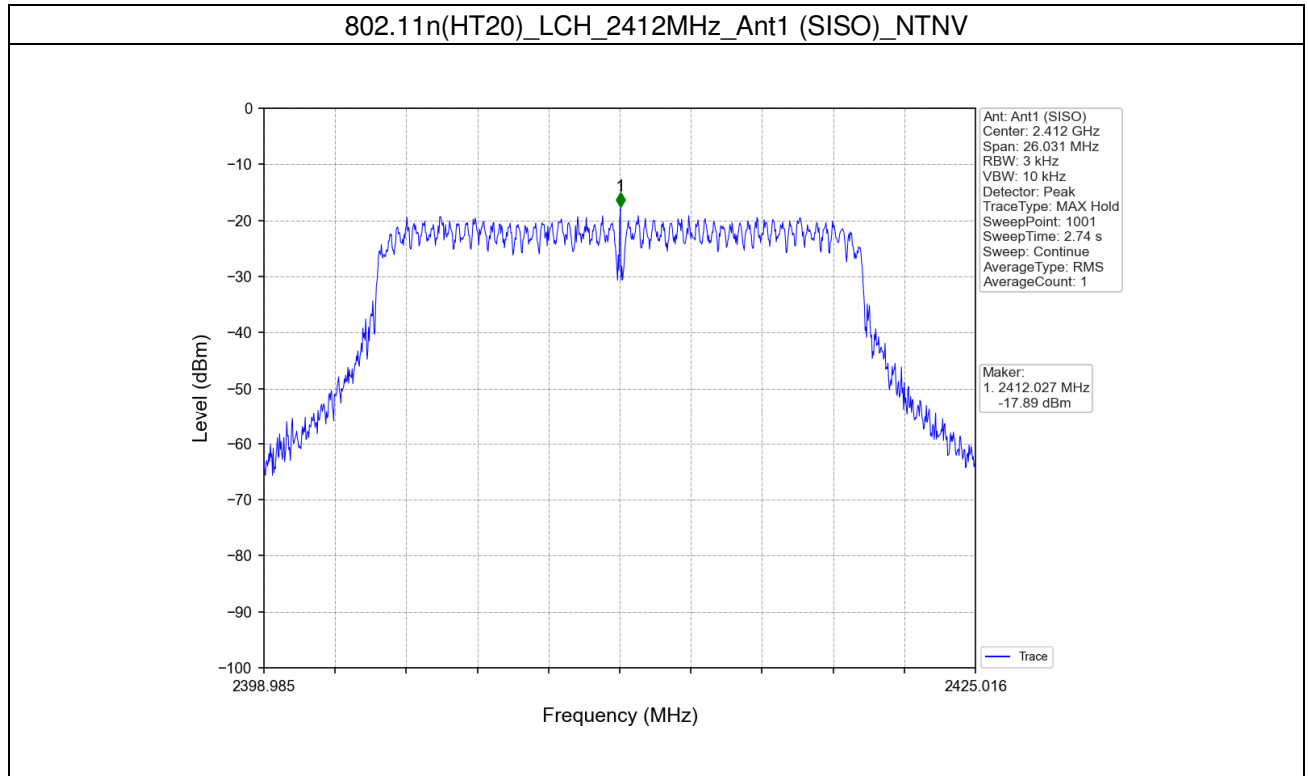
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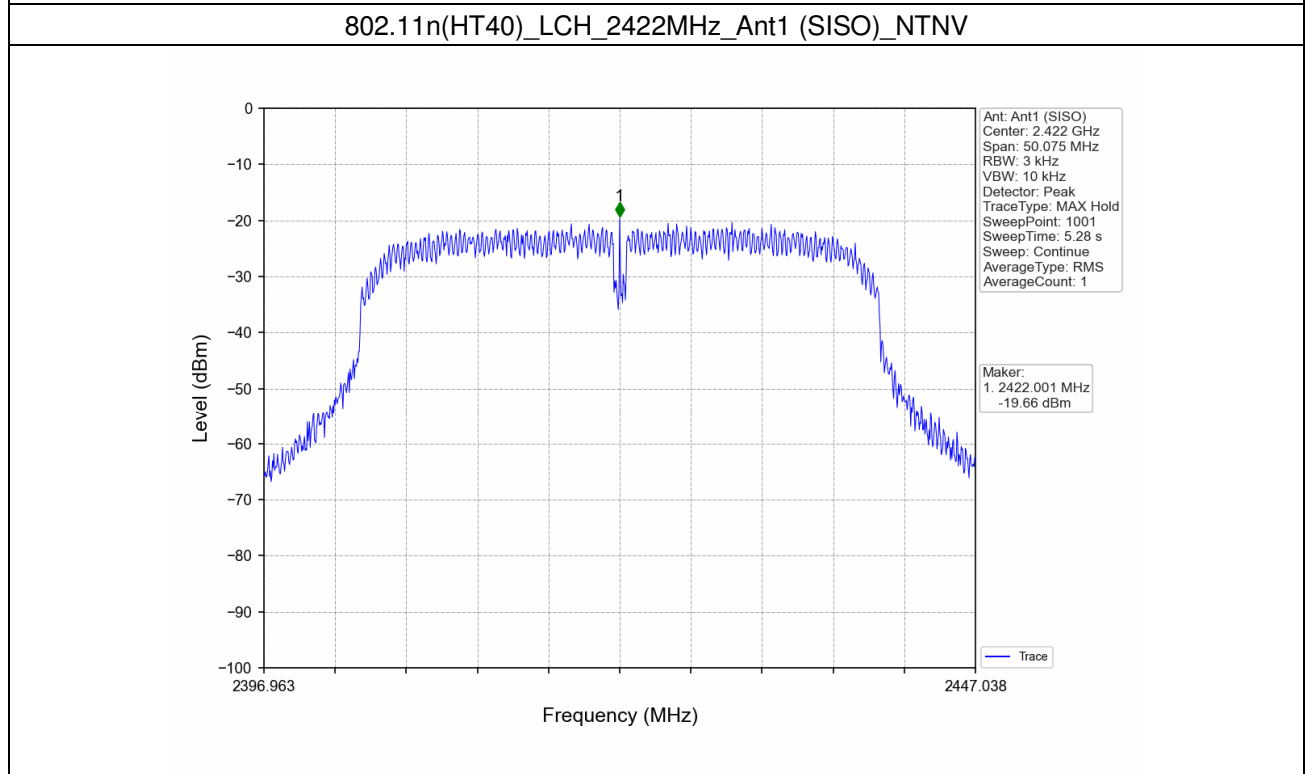
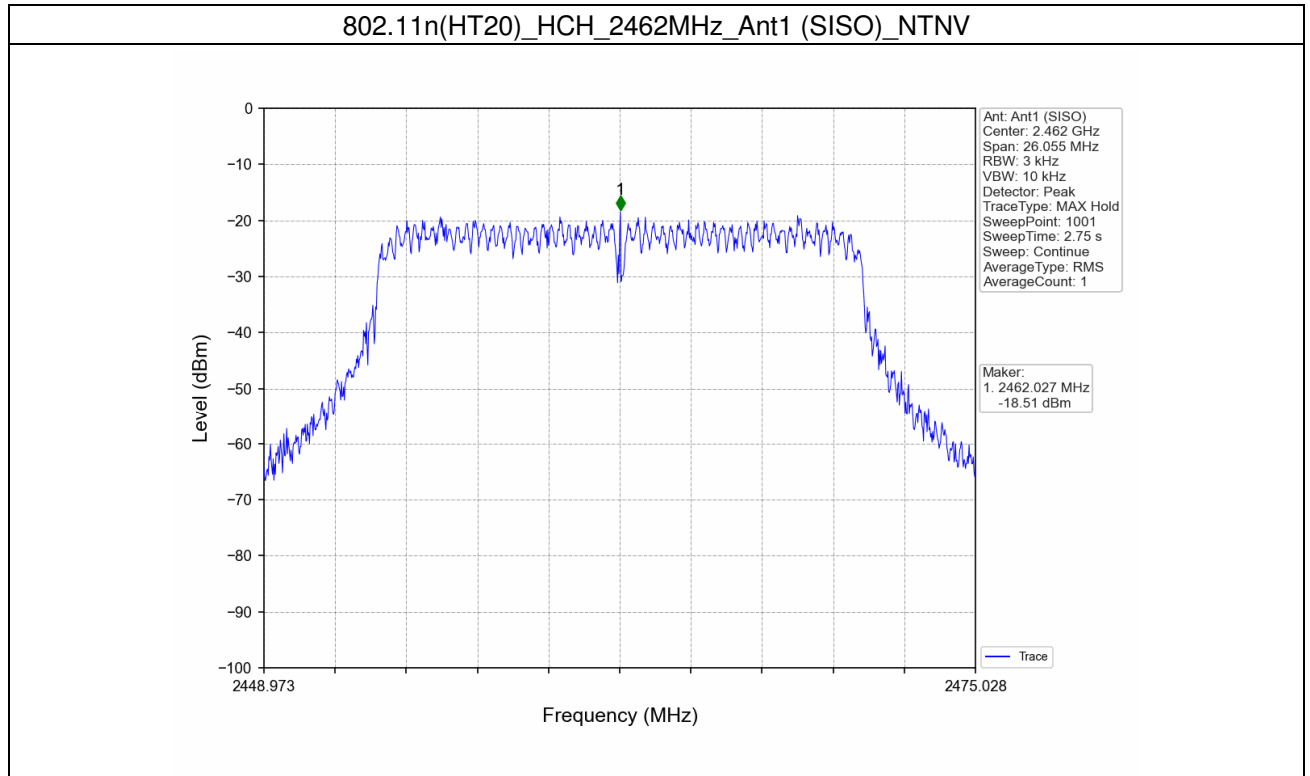
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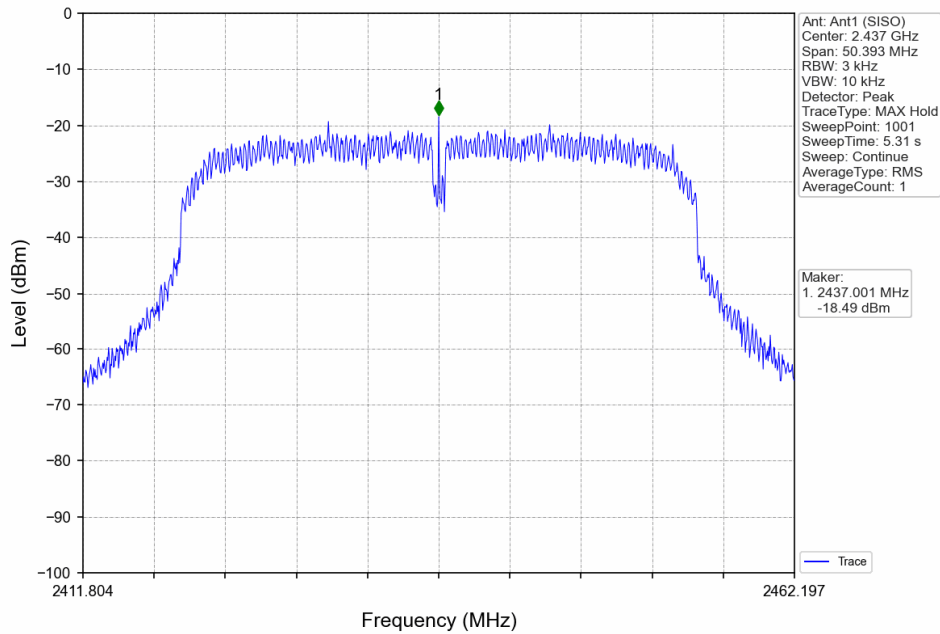


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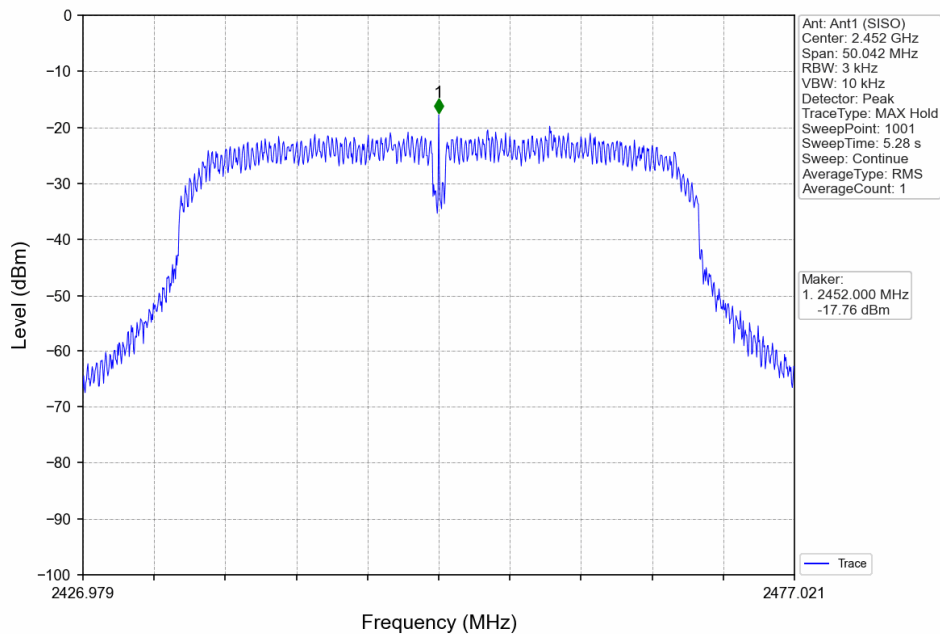
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_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	0.57
		2437	1	0.63
		2462	1	0.81
802.11g	SISO	2412	1	-3.84
		2437	1	-4.14
		2462	1	-4.16
802.11n (HT20)	SISO	2412	1	-3.85
		2437	1	-4.39
		2462	1	-4.25
802.11n (HT40)	SISO	2422	1	-6.74
		2437	1	-7.02
		2452	1	-6.81

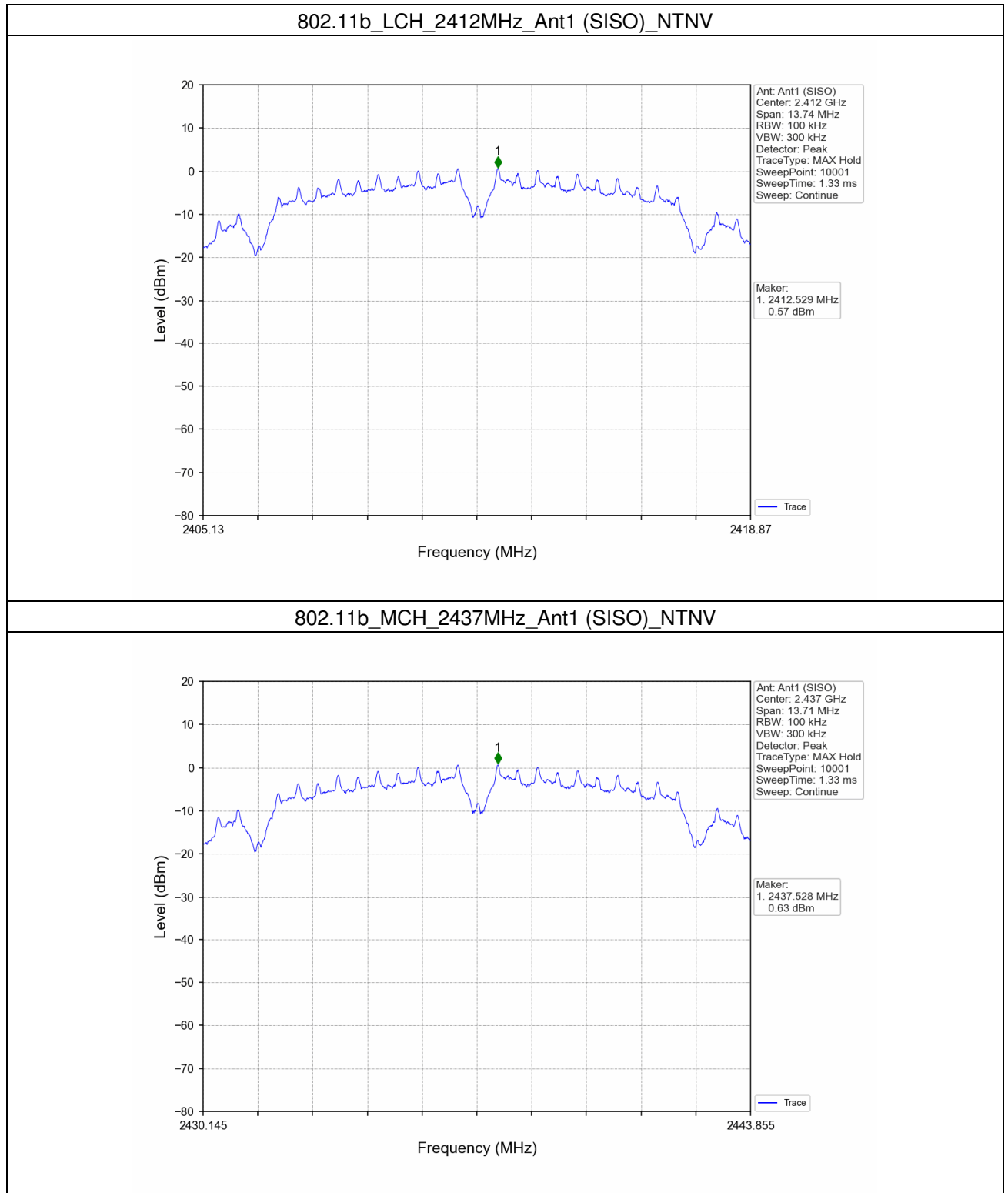
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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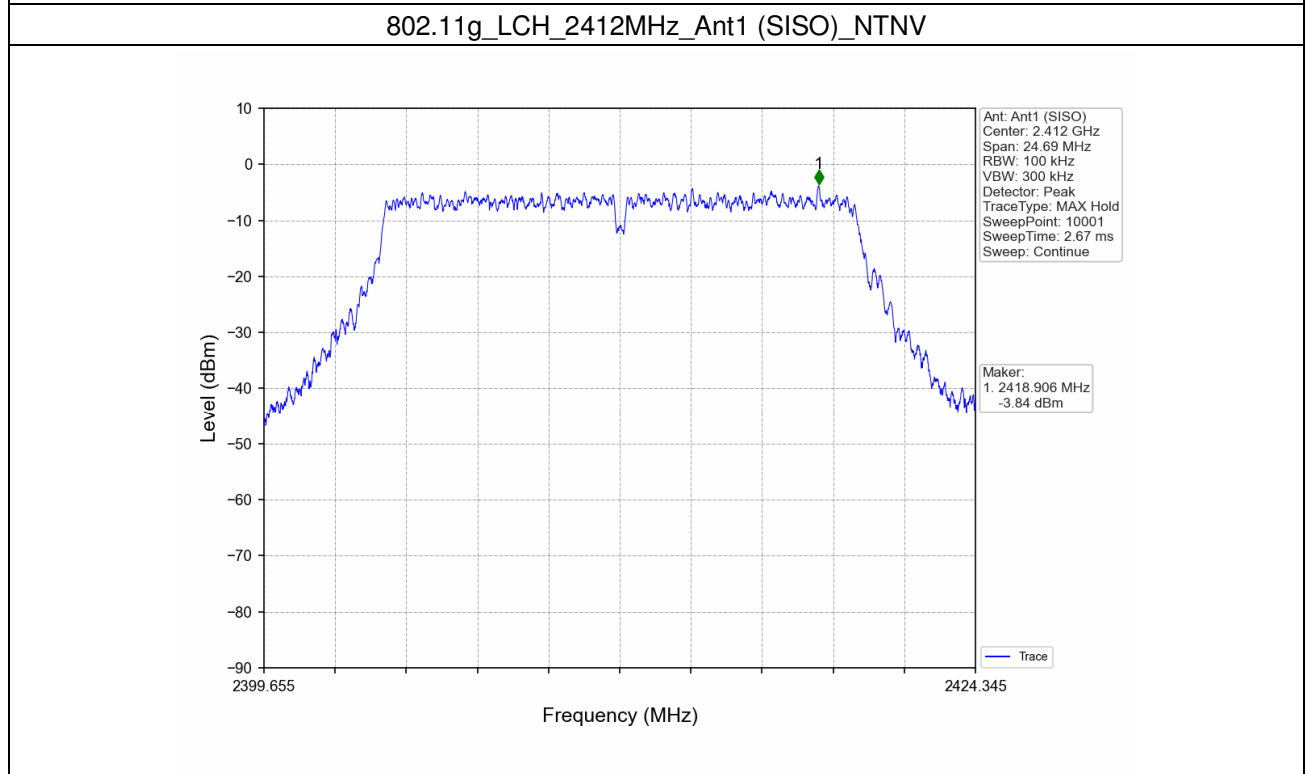
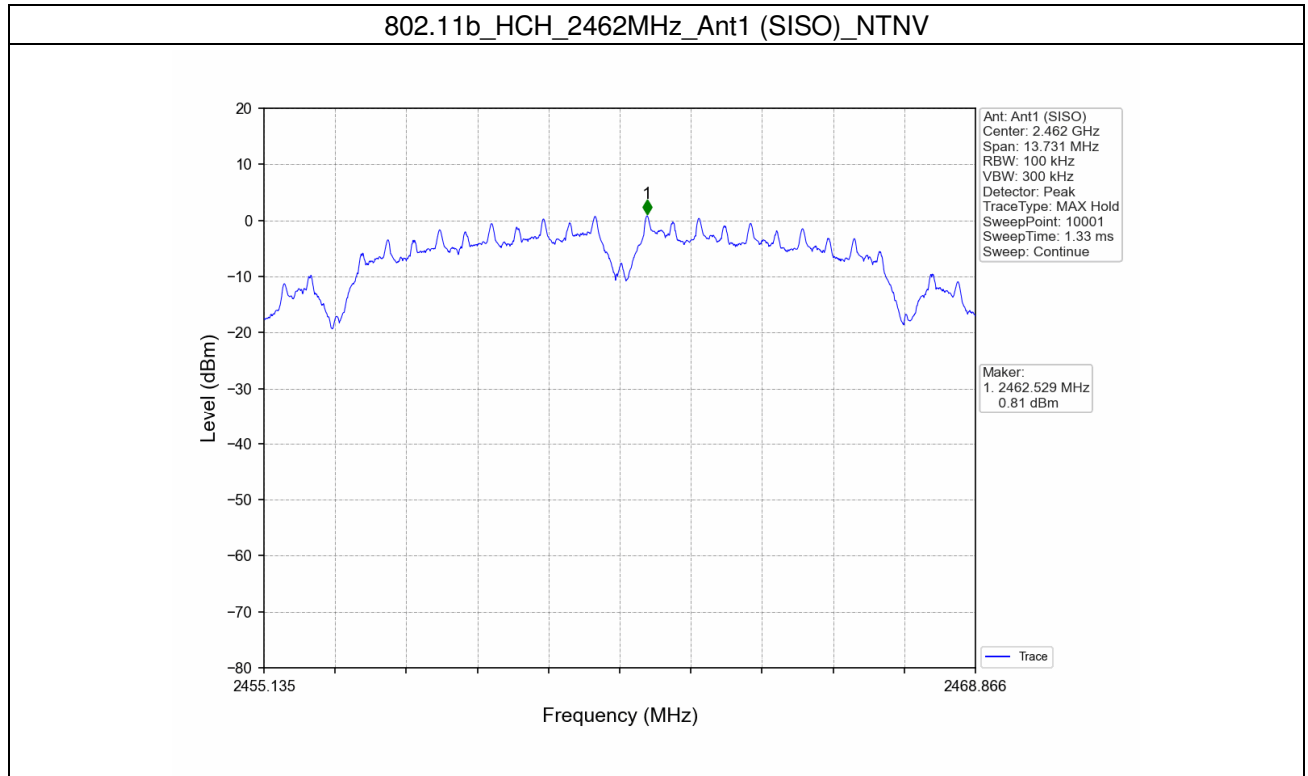
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5.1.2 Test Graph

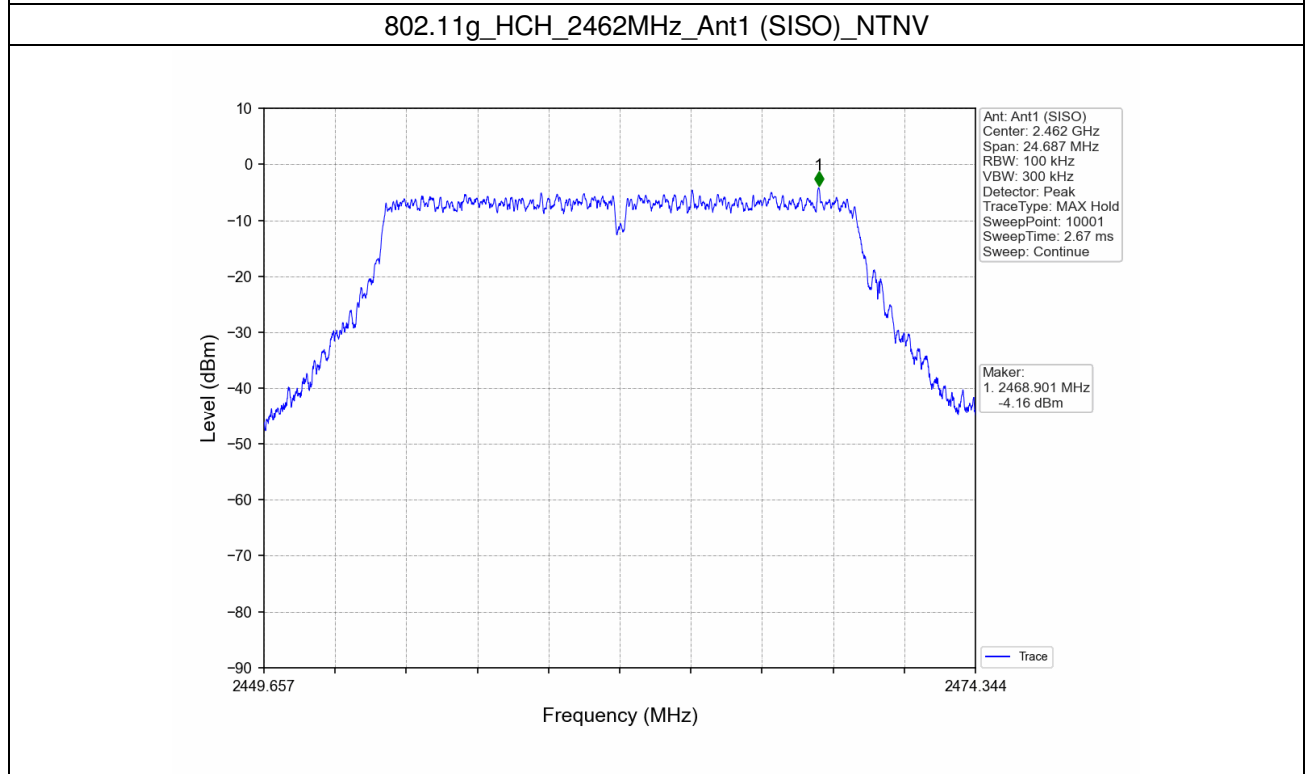
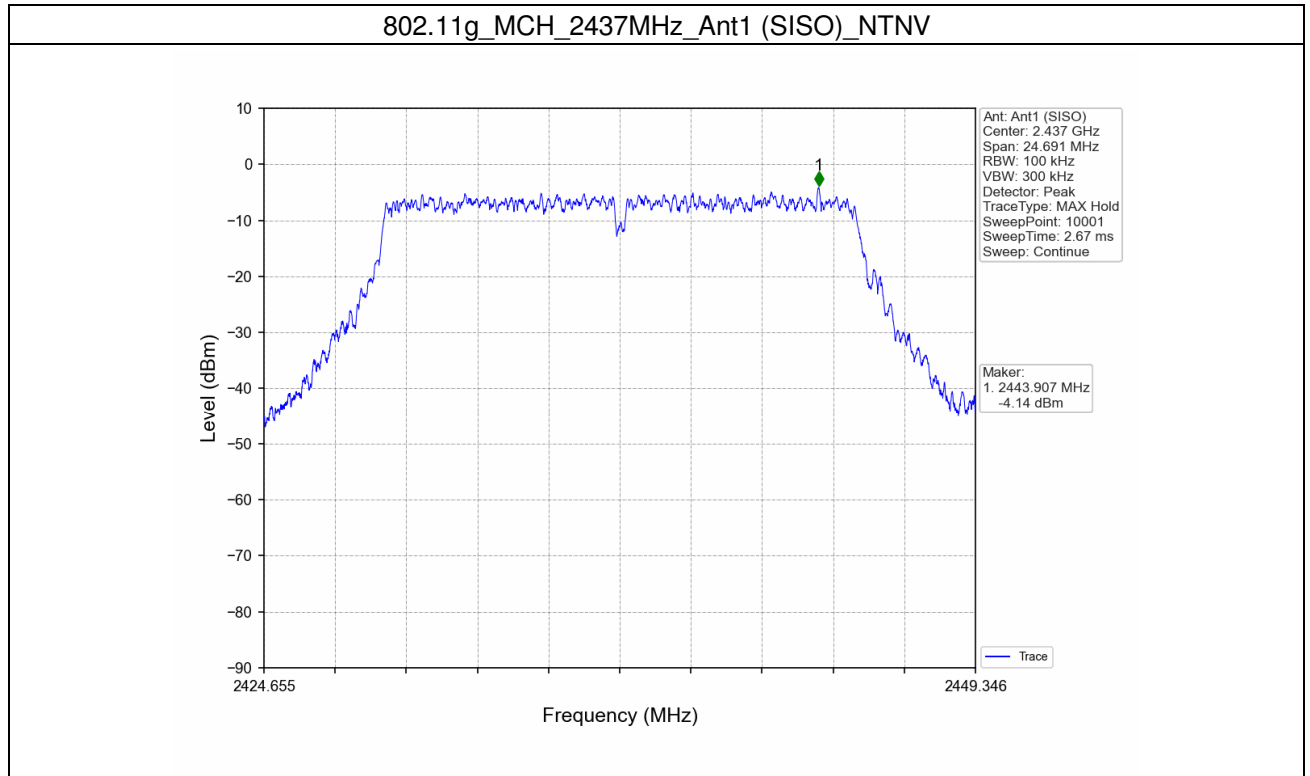


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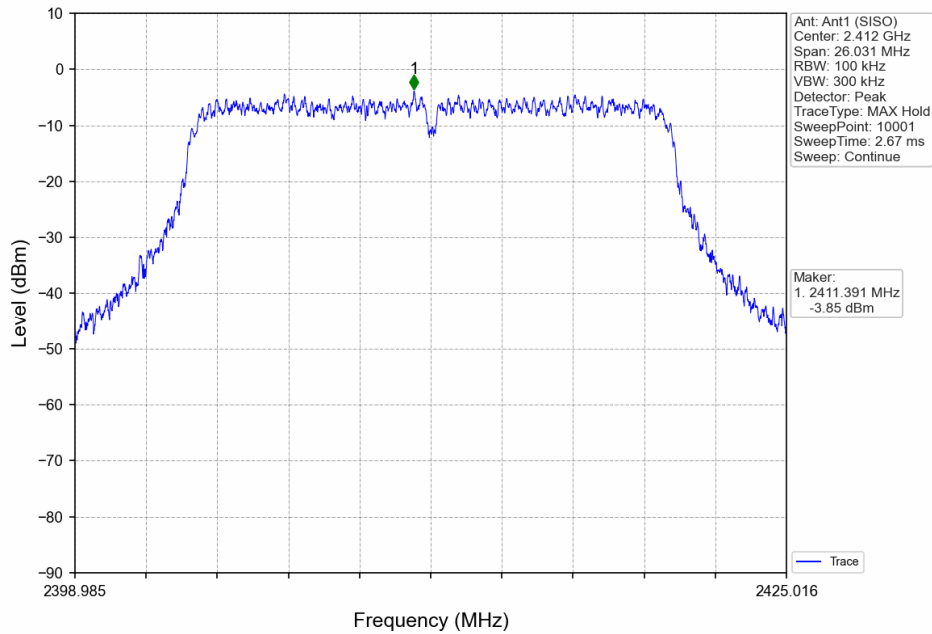
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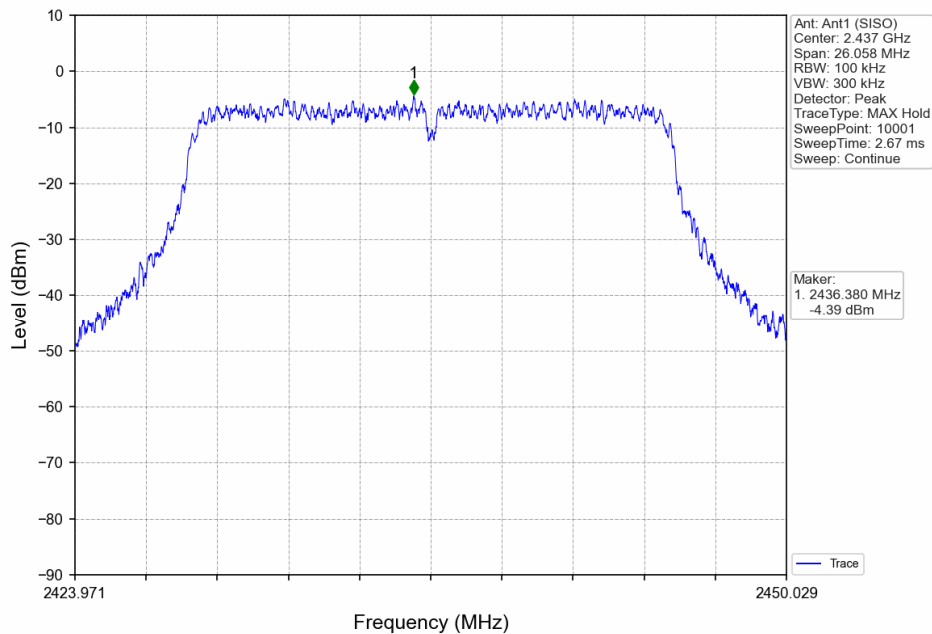
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



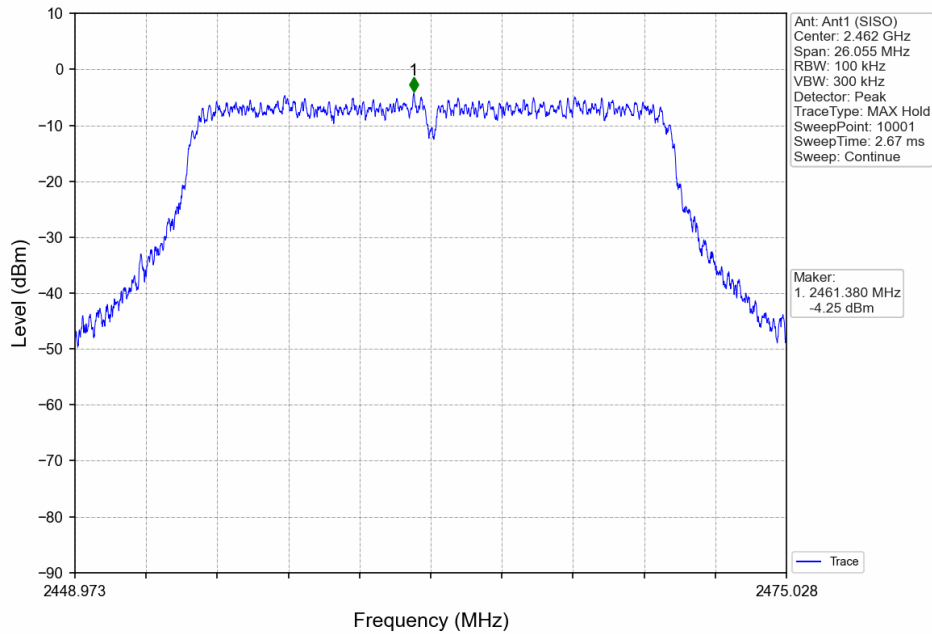
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



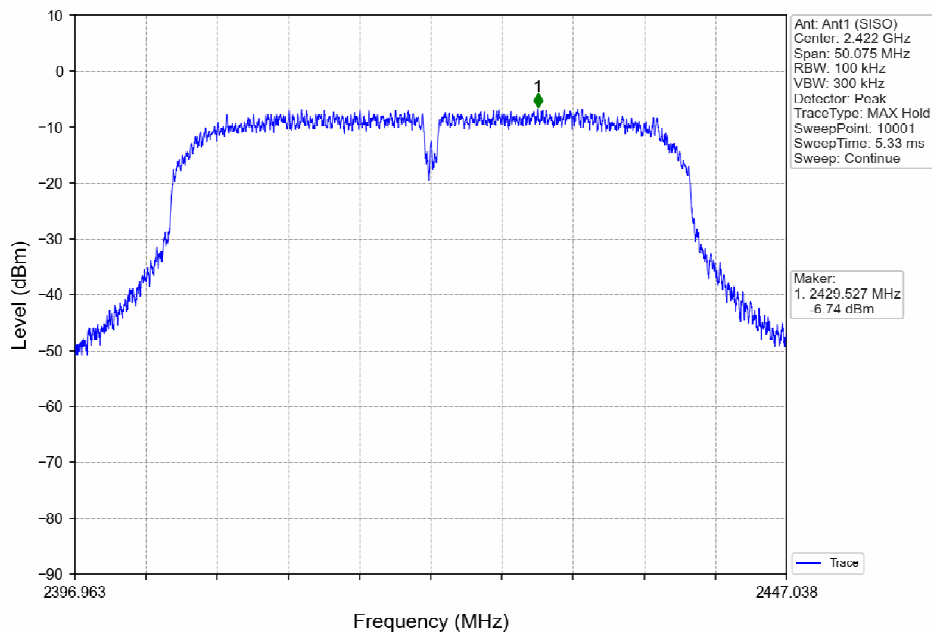
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

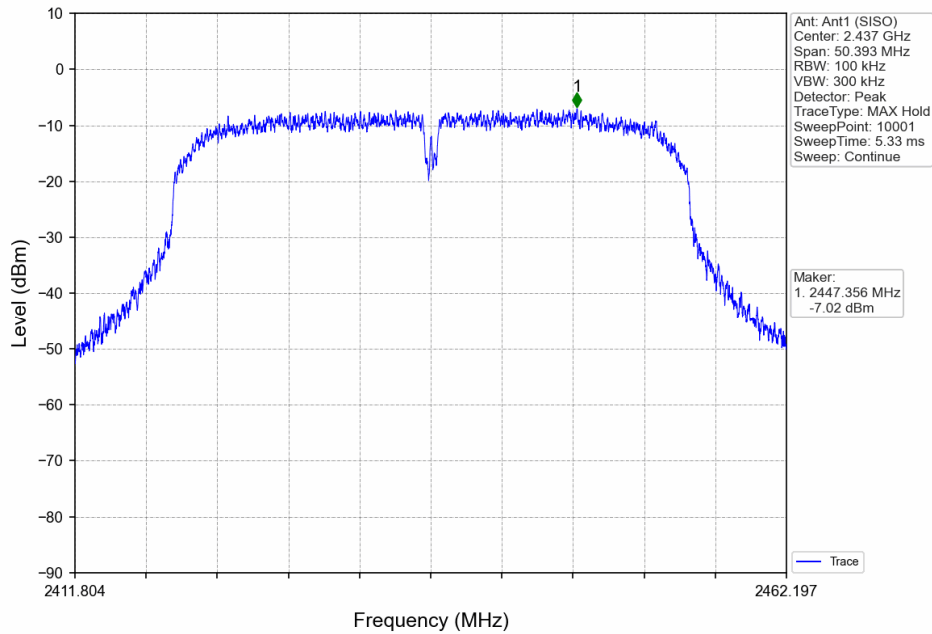


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

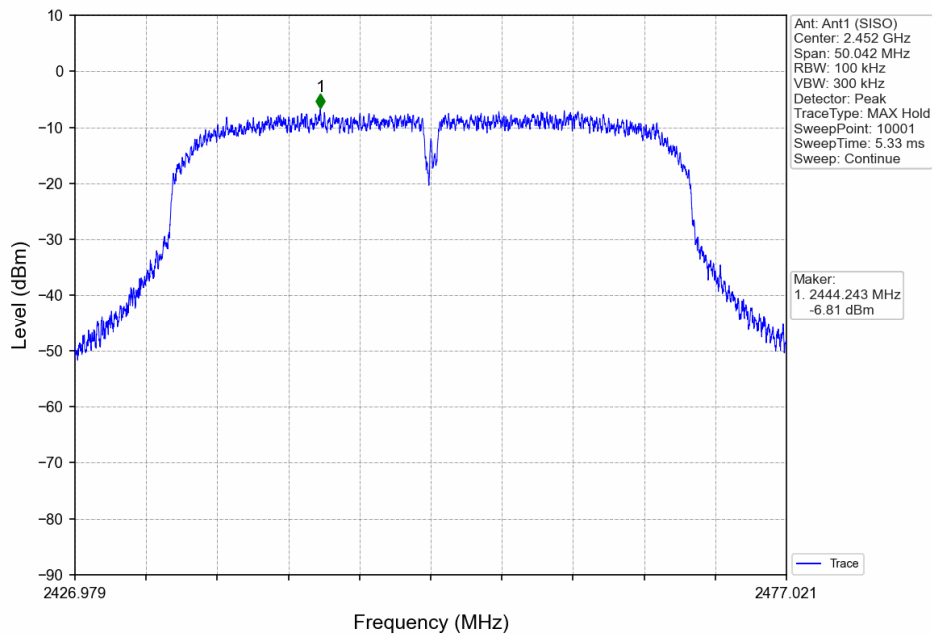


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5.2 CSE

5.2.1 Test Result

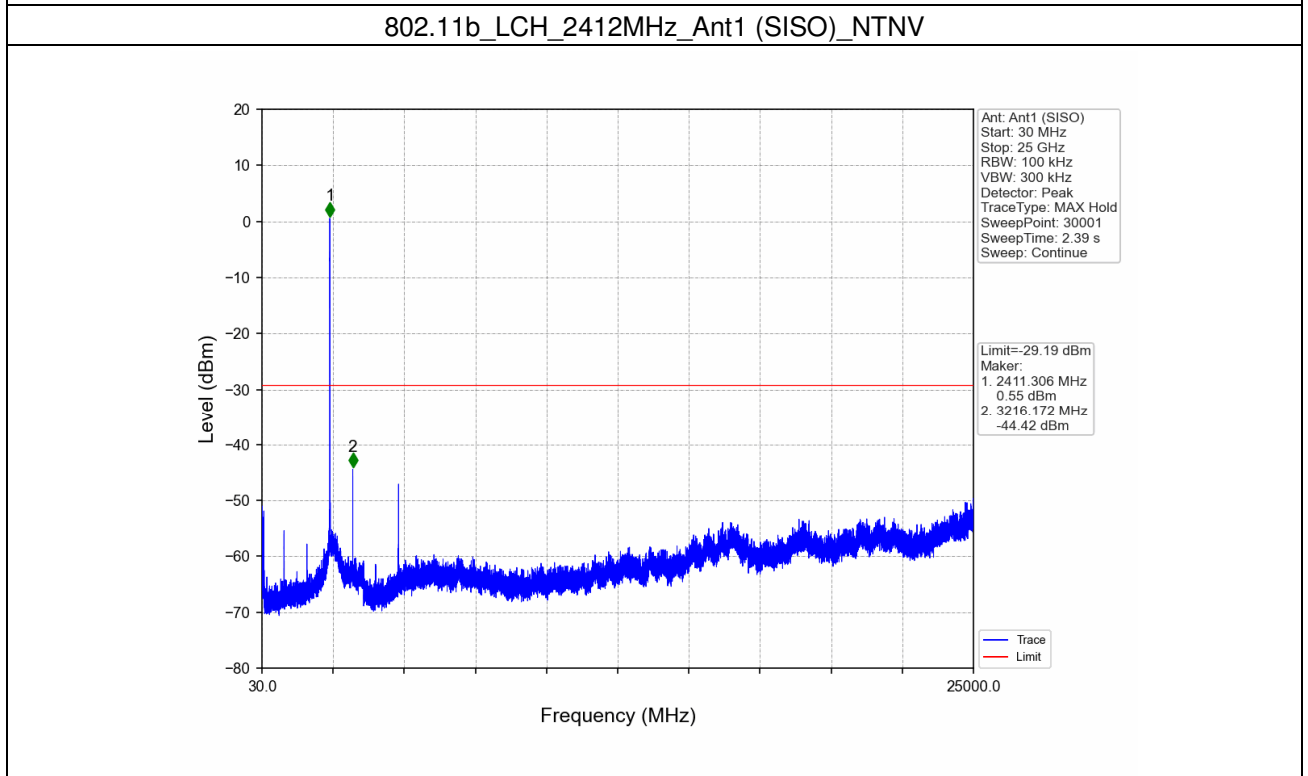
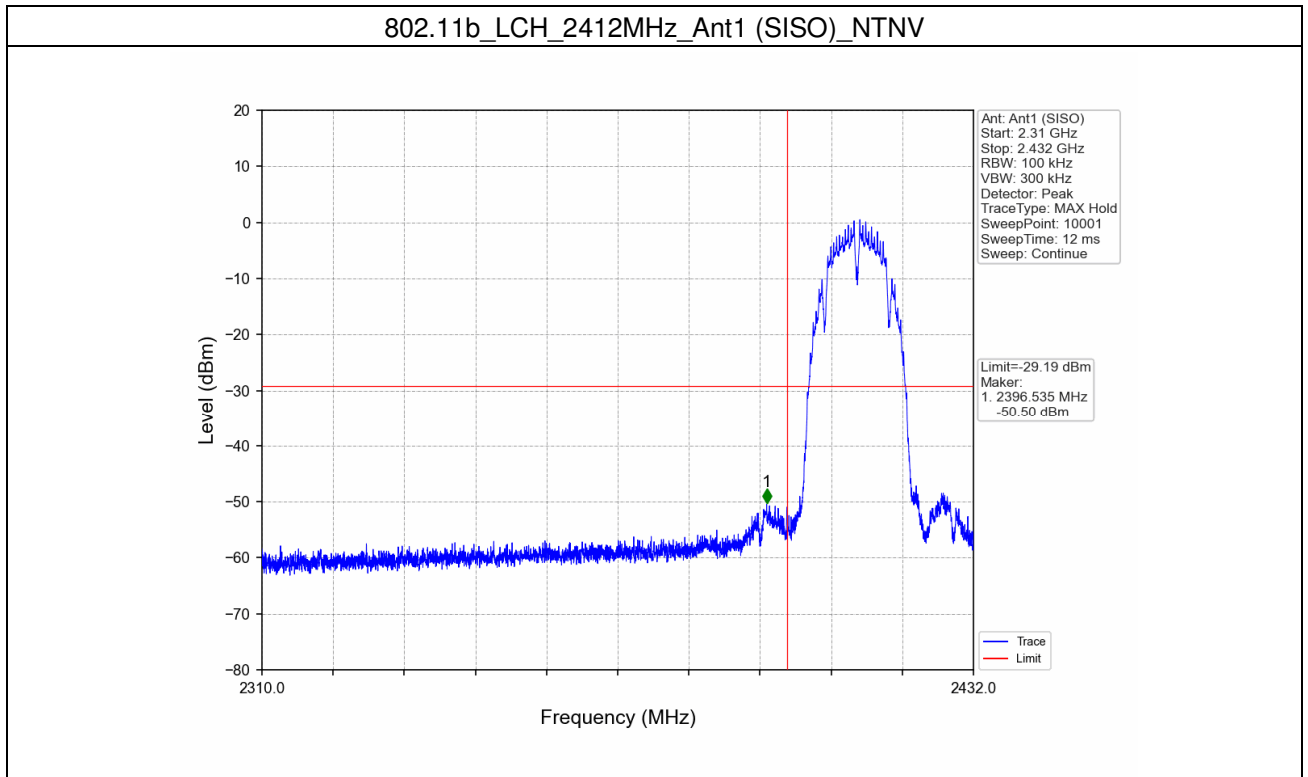
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	0.81	-29.19	Pass
		2437	1	0.81	-29.19	Pass
		2462	1	0.81	-29.19	Pass
802.11g	SISO	2412	1	-3.84	-33.84	Pass
		2437	1	-3.84	-33.84	Pass
		2462	1	-3.84	-33.84	Pass
802.11n (HT20)	SISO	2412	1	-3.85	-33.85	Pass
		2437	1	-3.85	-33.85	Pass
		2462	1	-3.85	-33.85	Pass
802.11n (HT40)	SISO	2422	1	-6.74	-36.74	Pass
		2437	1	-6.74	-36.74	Pass
		2452	1	-6.74	-36.74	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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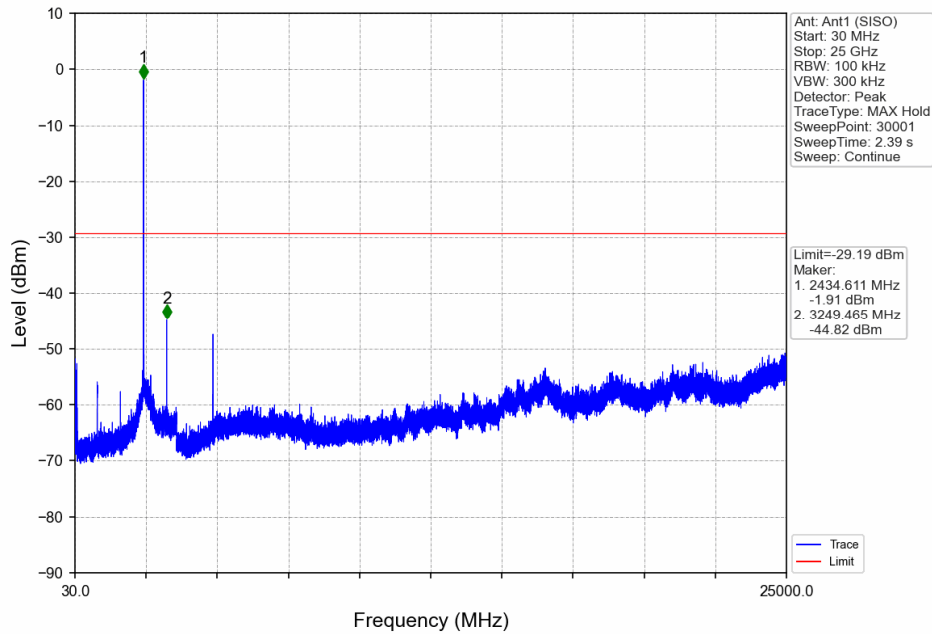
5.2.2 Test Graph



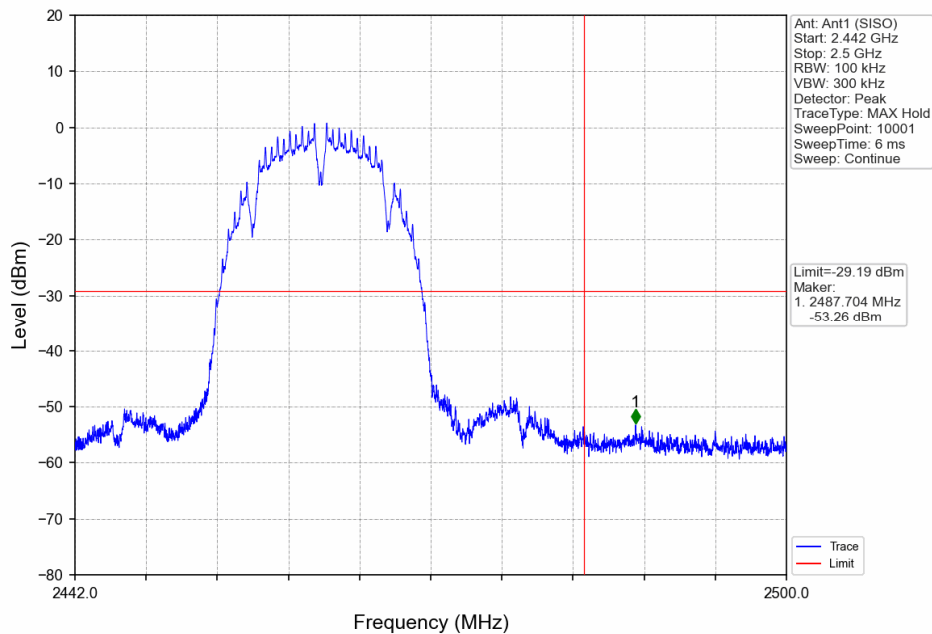
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



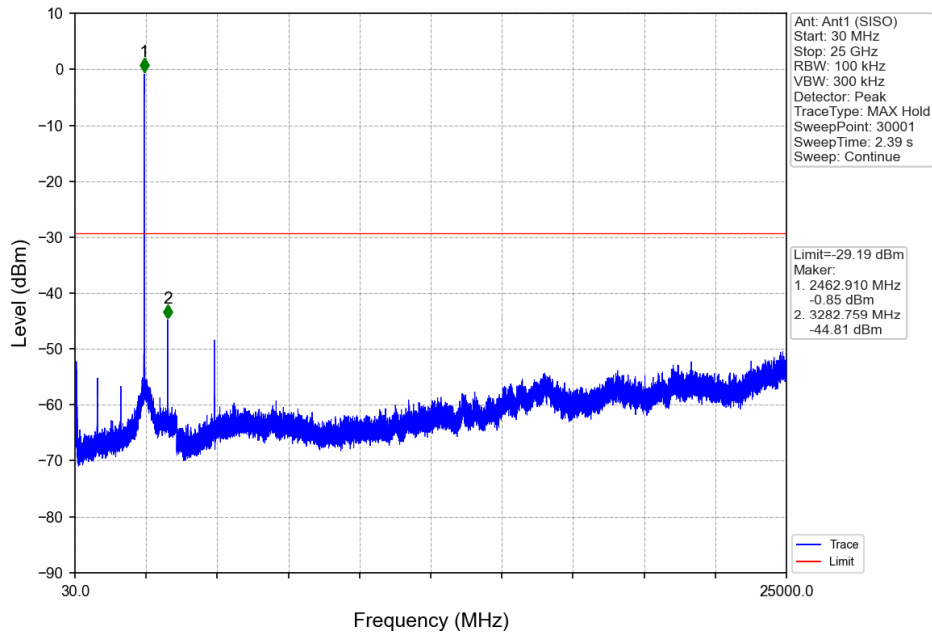
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



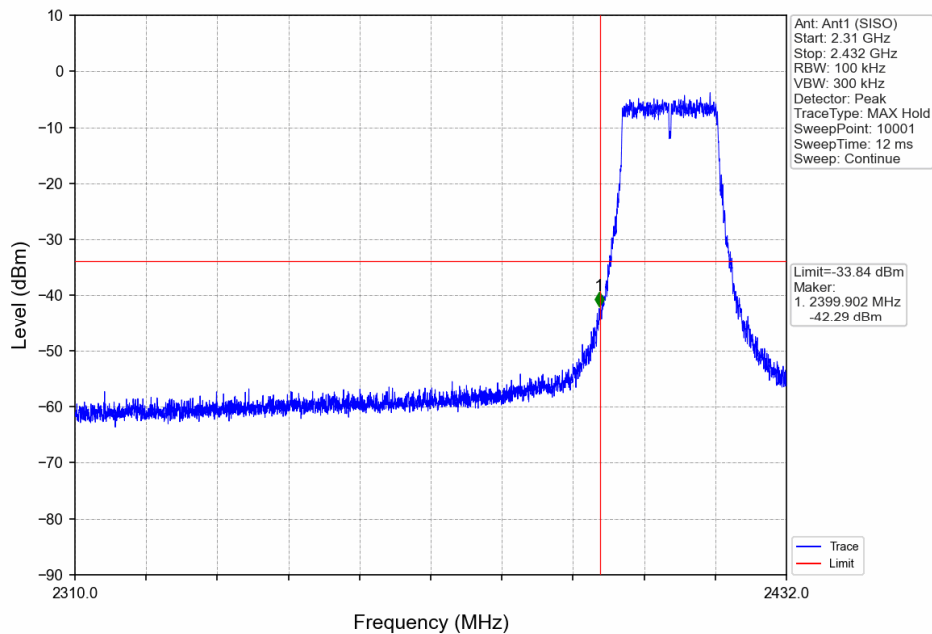
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

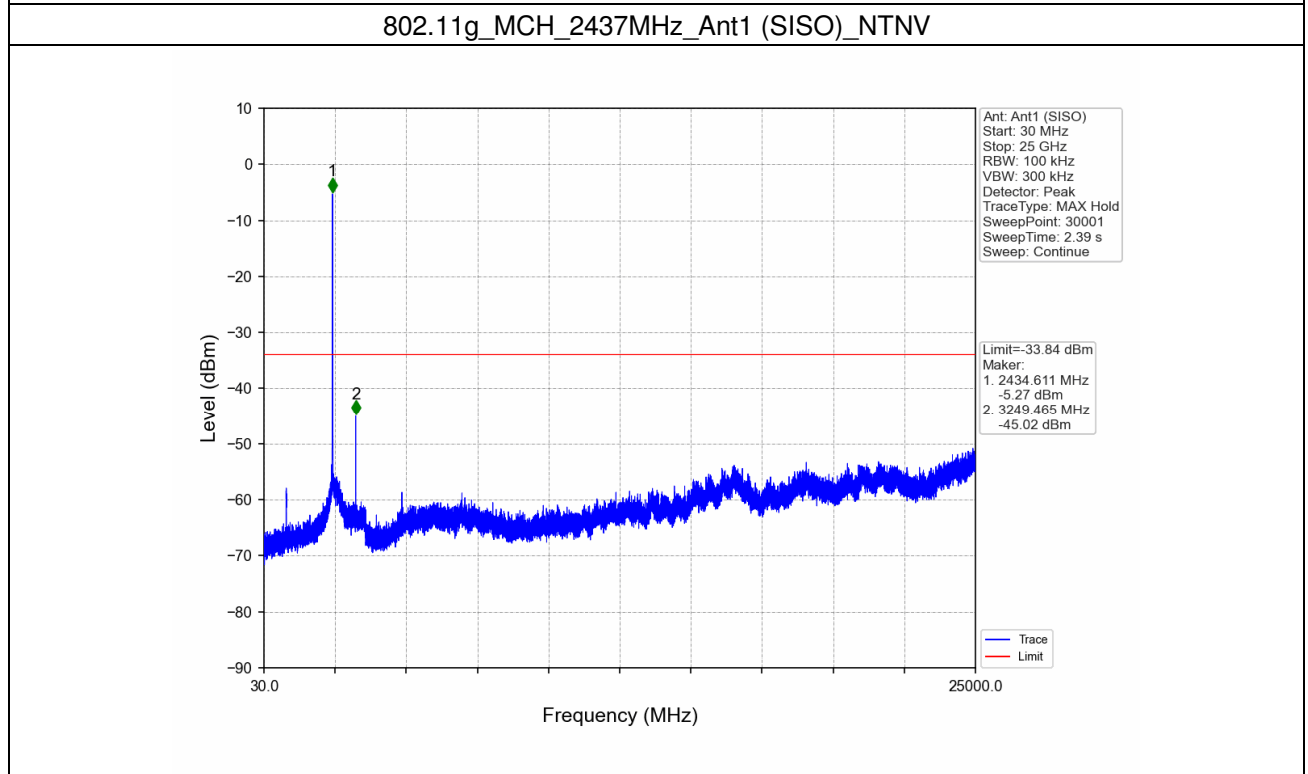
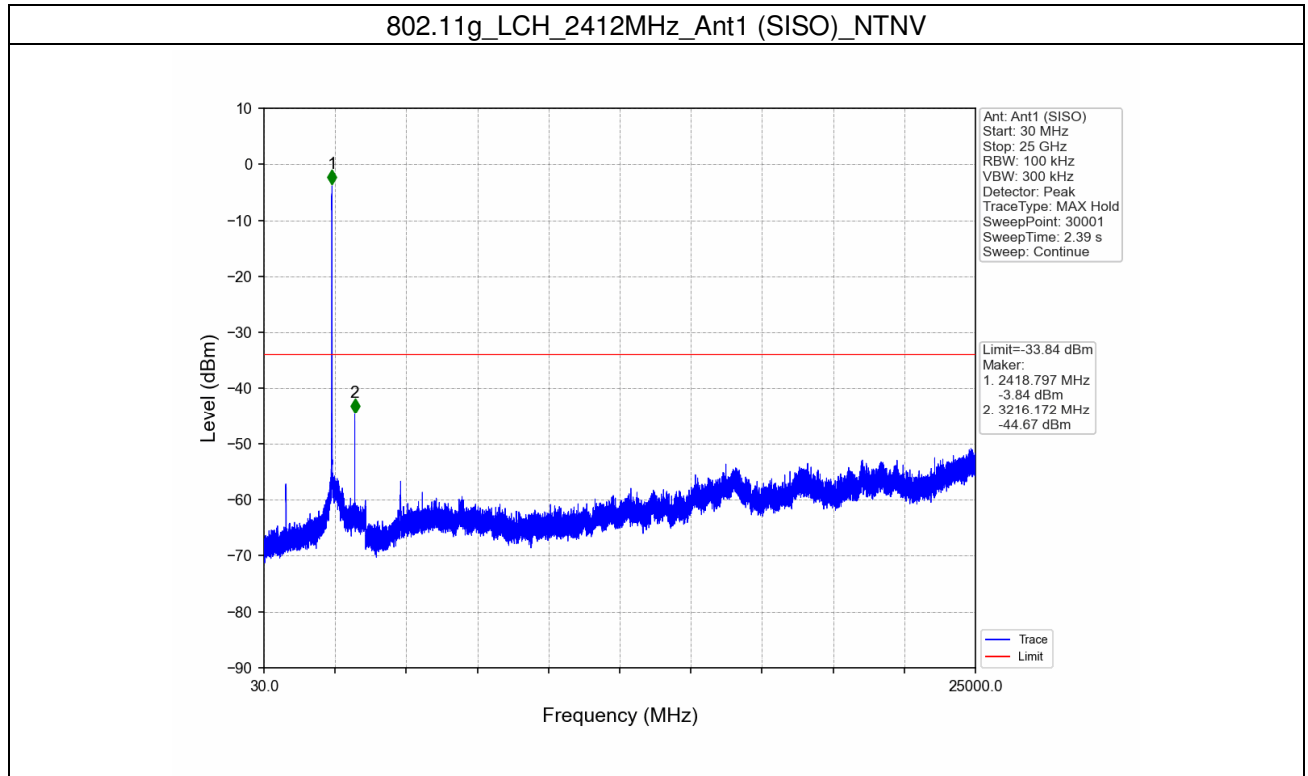


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

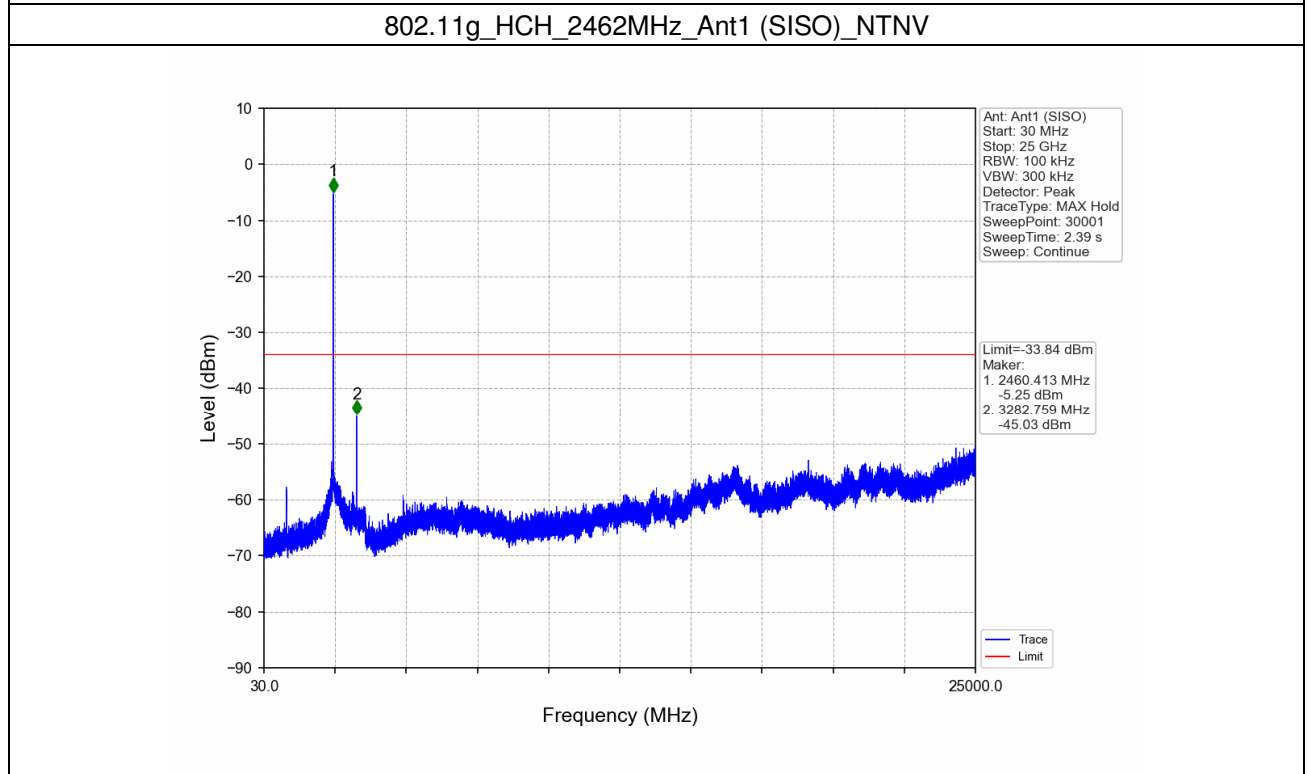
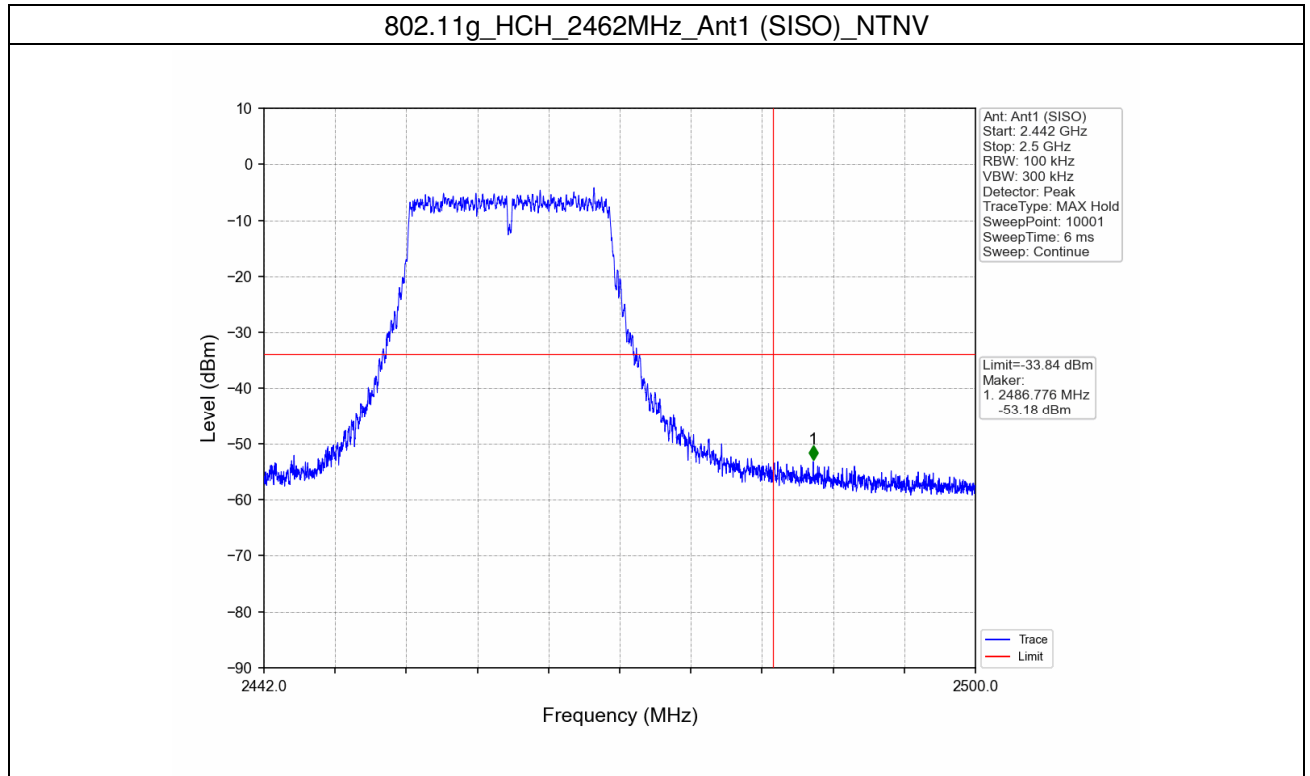


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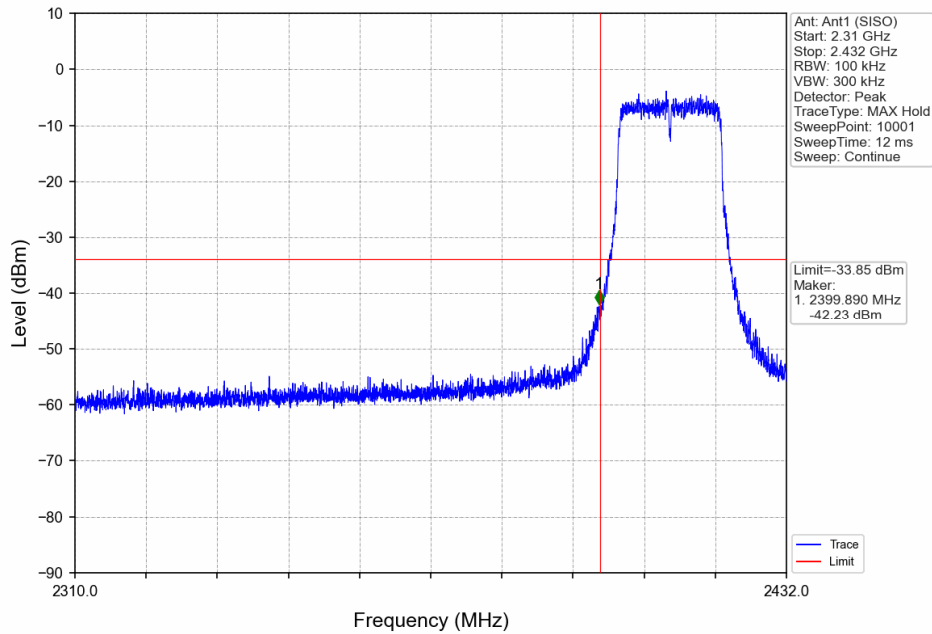
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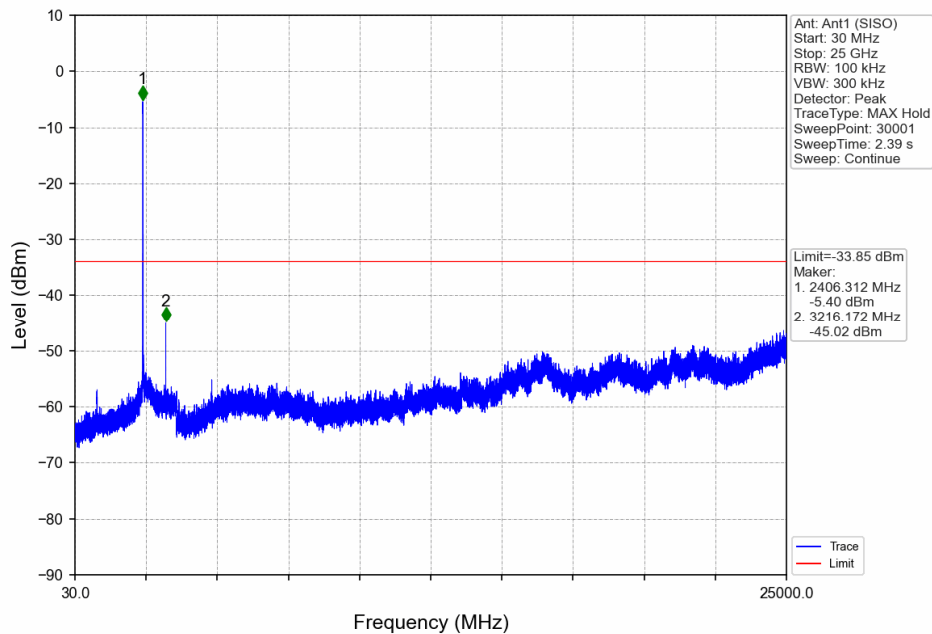
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



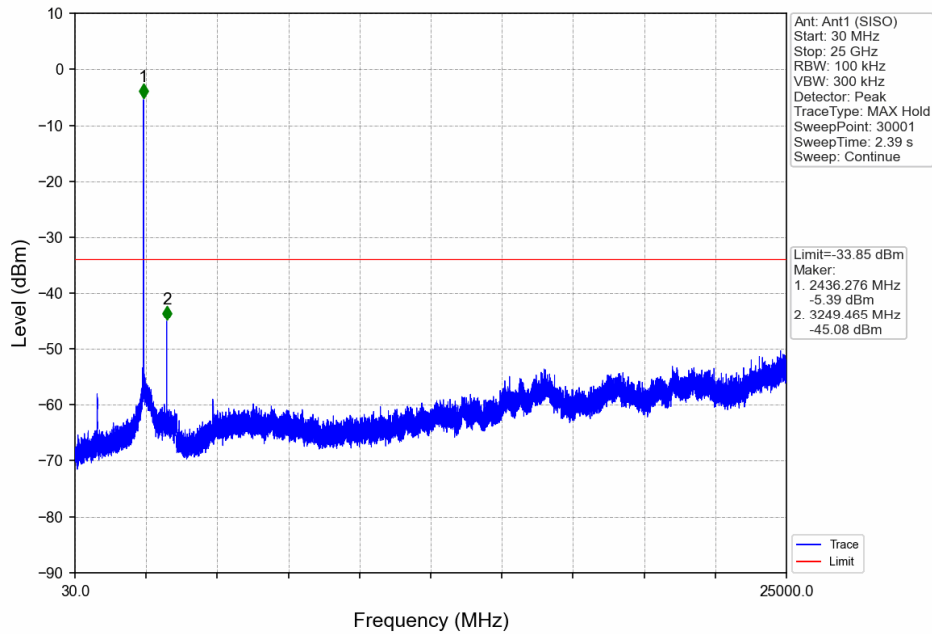
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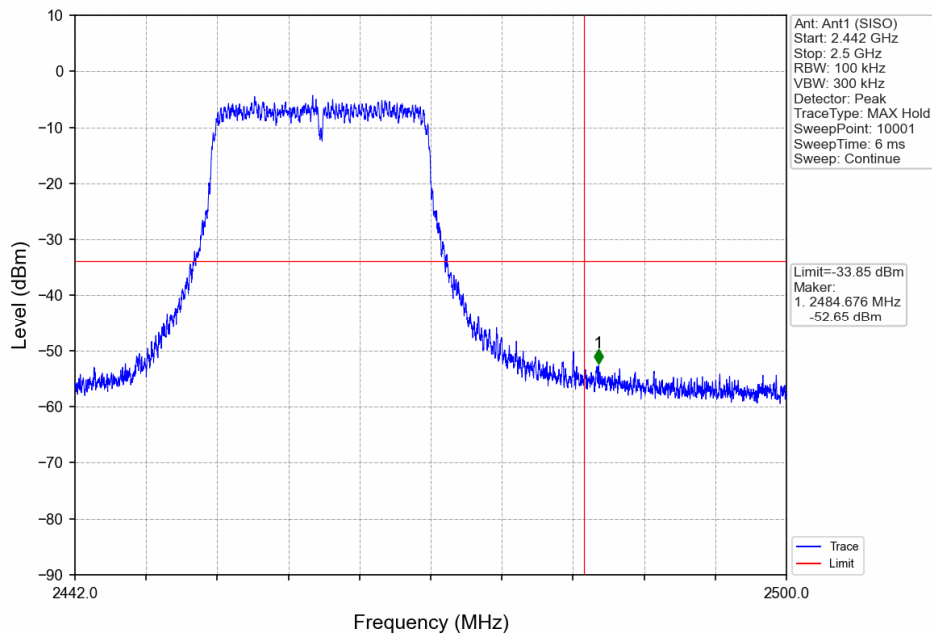
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

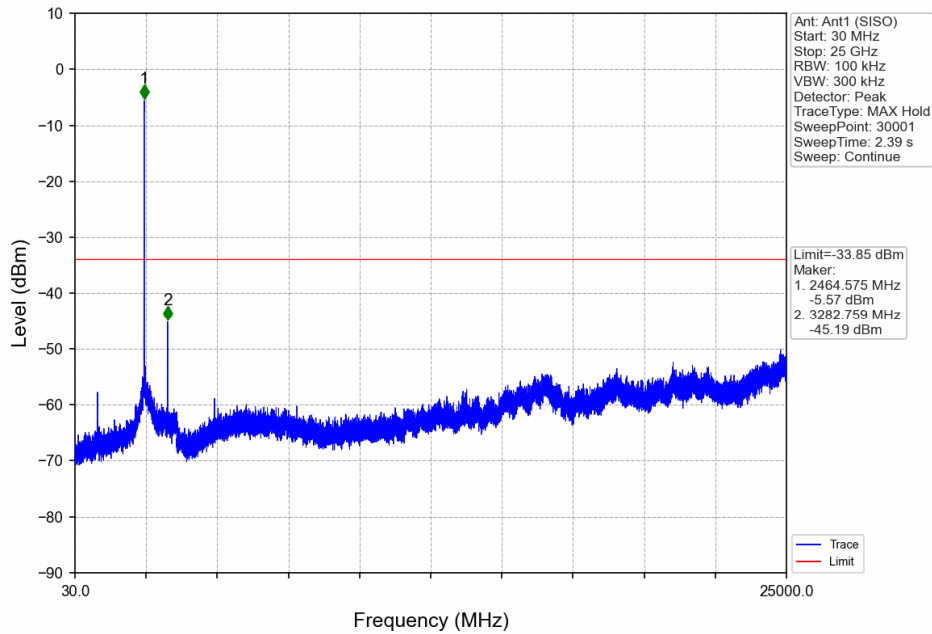


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

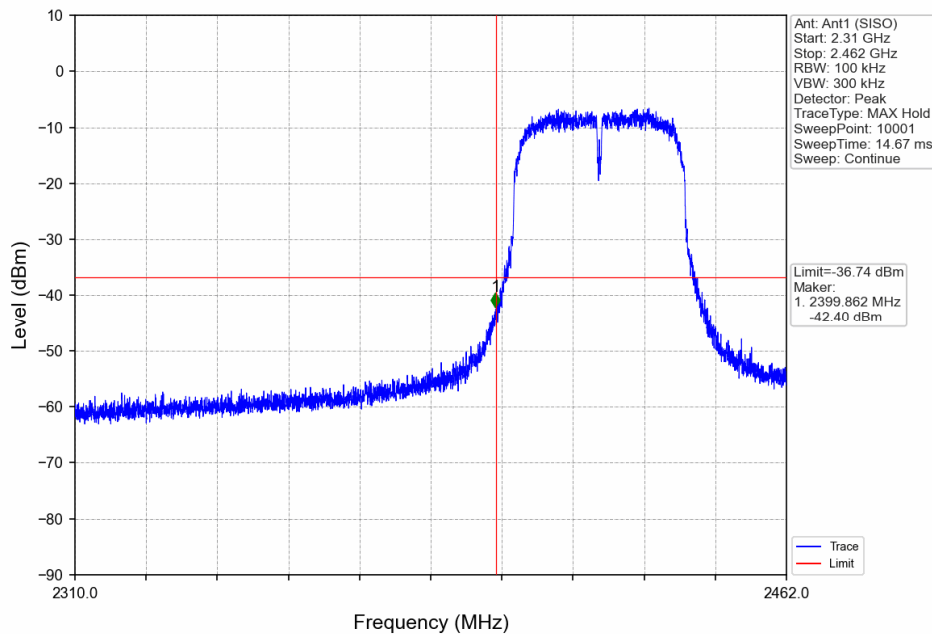


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

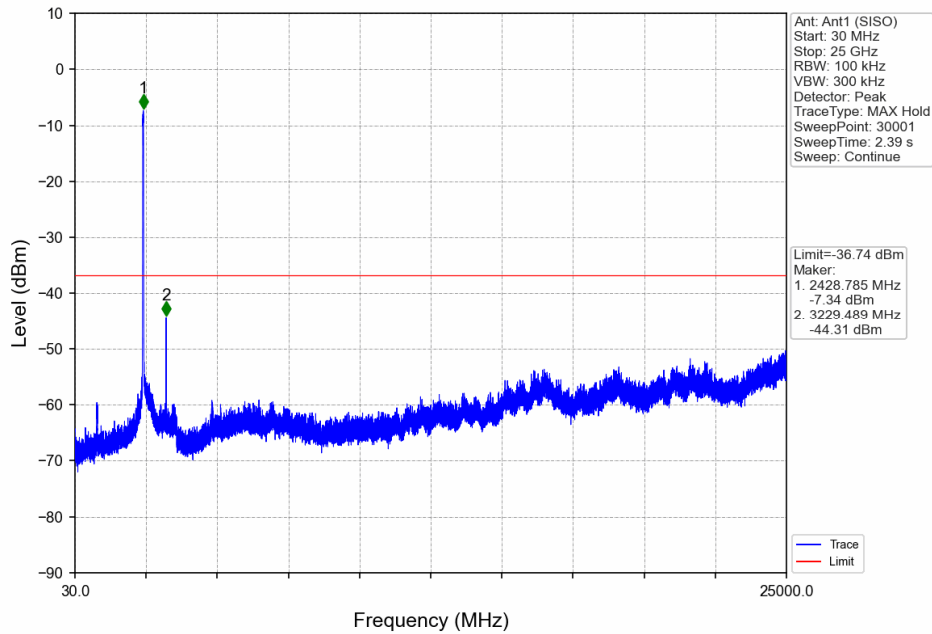


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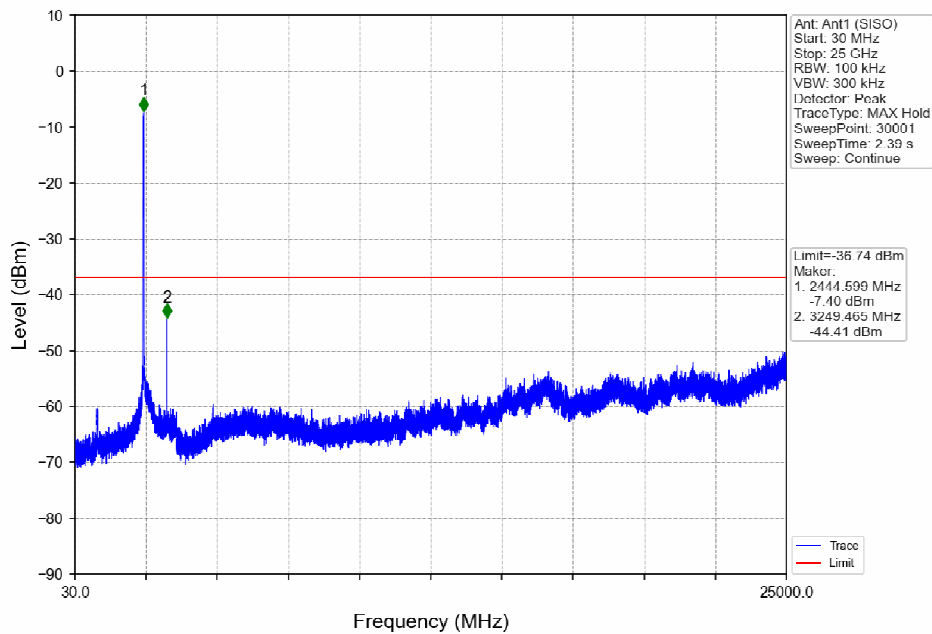


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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

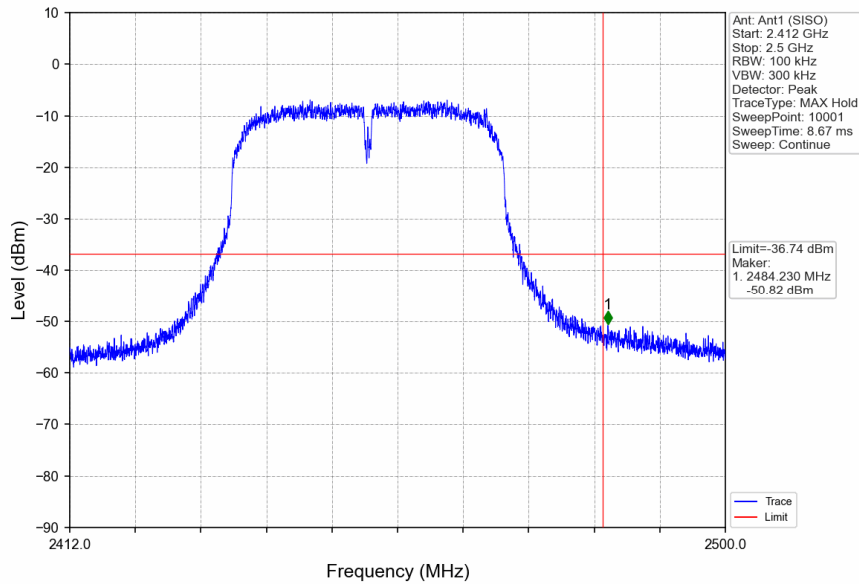


802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

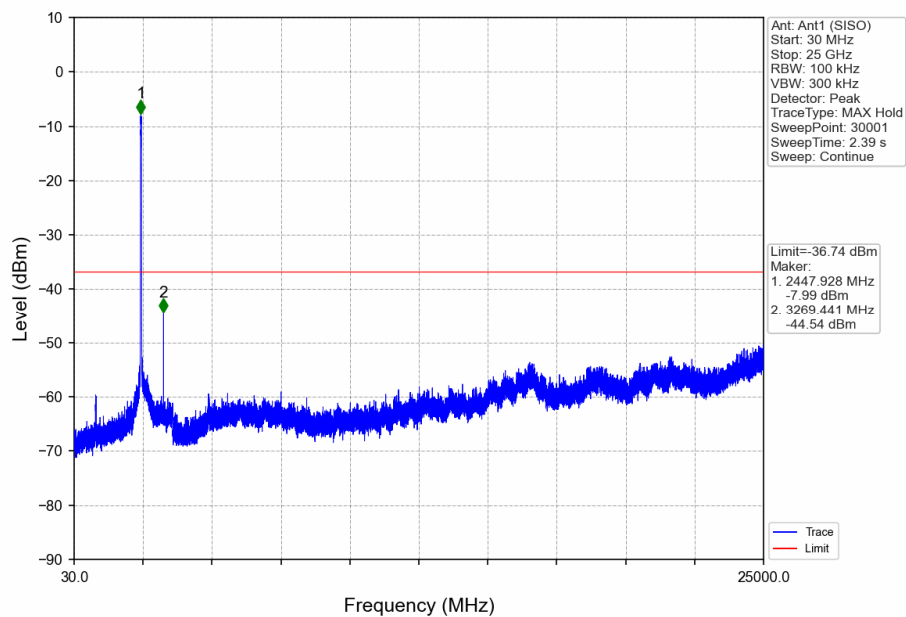


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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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