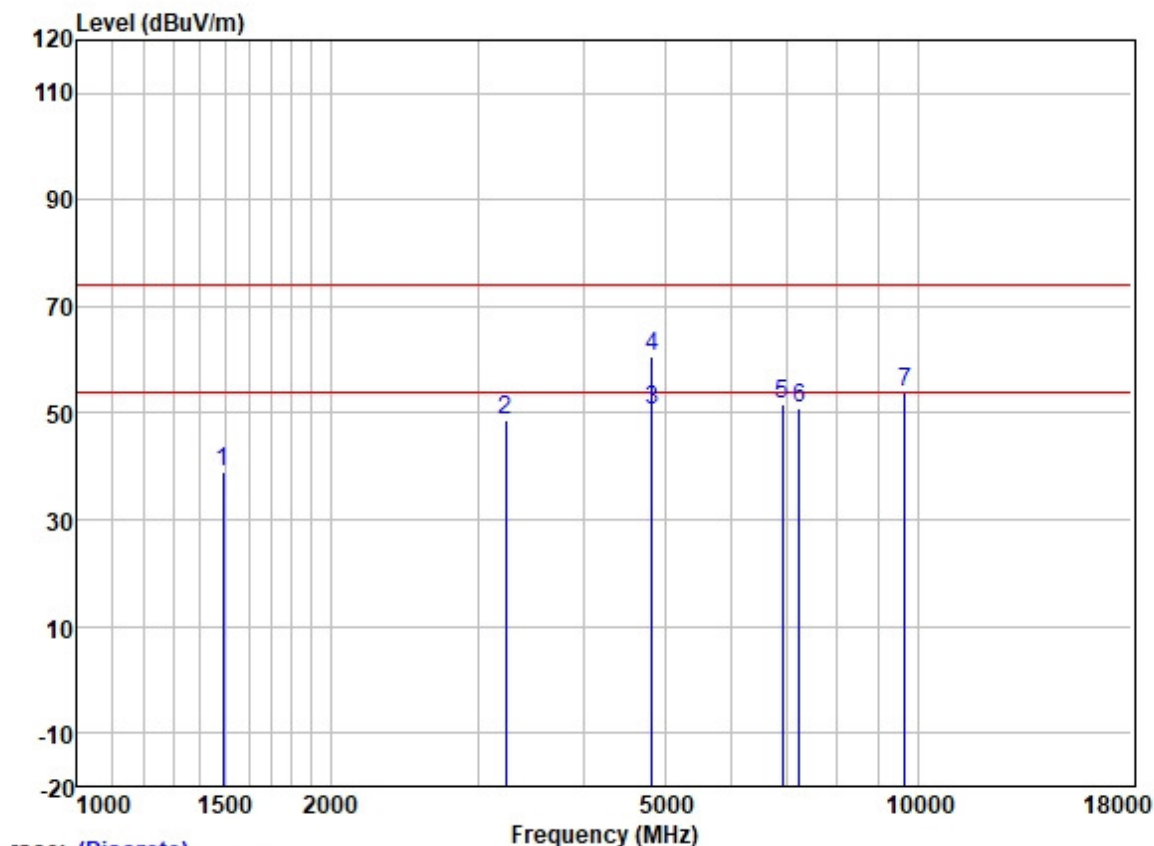


Test Mode: 04; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: Low

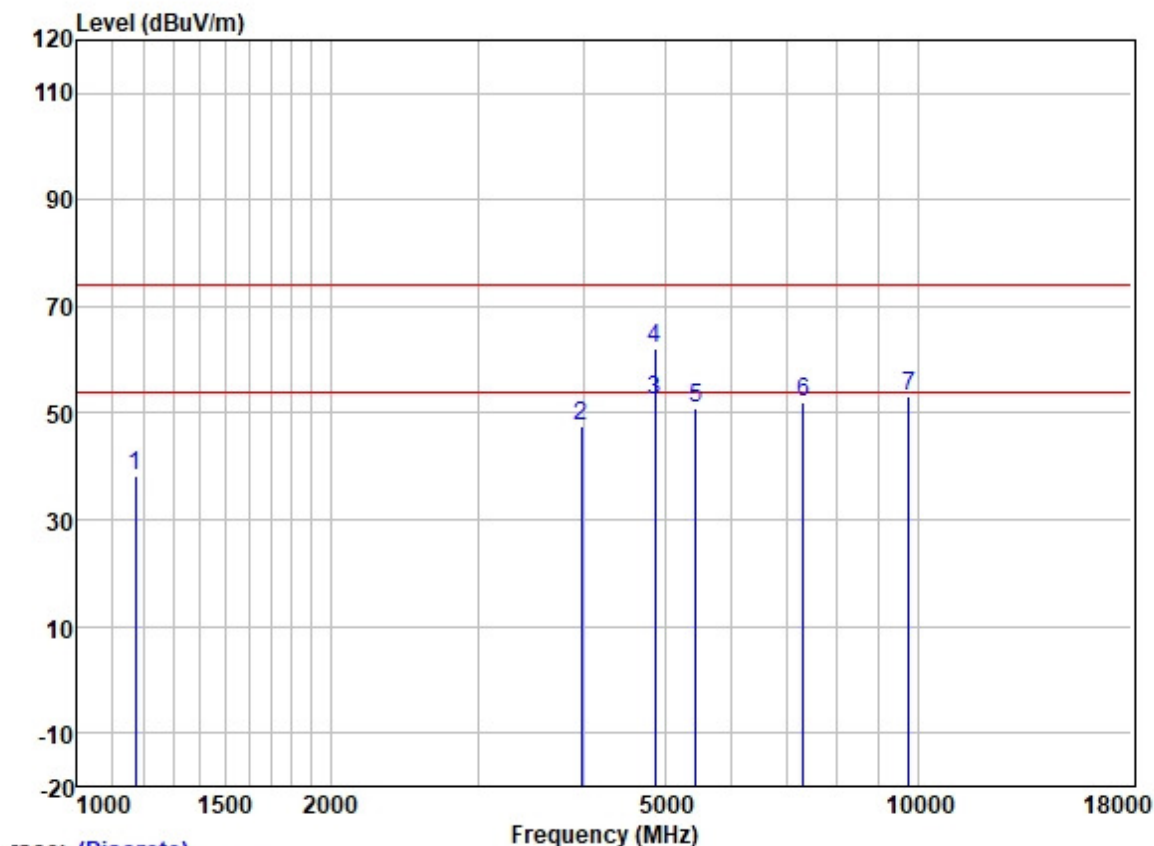


		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1492.564	48.63	25.50	2.79	38.10	38.82	74.00	-35.18	VERTICAL	Peak
2	3238.000	53.11	28.67	4.02	37.06	48.74	74.00	-25.26	VERTICAL	Peak
3	4824.000	50.70	31.45	5.42	36.83	50.74	54.00	-3.26	VERTICAL	Average
4	4824.000	60.65	31.45	5.42	36.83	60.69	74.00	-13.31	VERTICAL	Peak
5	6894.806	48.20	34.85	5.81	37.18	51.68	74.00	-22.32	VERTICAL	Peak
6	7236.000	46.53	35.70	6.03	37.39	50.87	74.00	-23.13	VERTICAL	Peak
7	9648.000	45.71	38.40	7.06	37.42	53.75	74.00	-20.25	VERTICAL	Peak



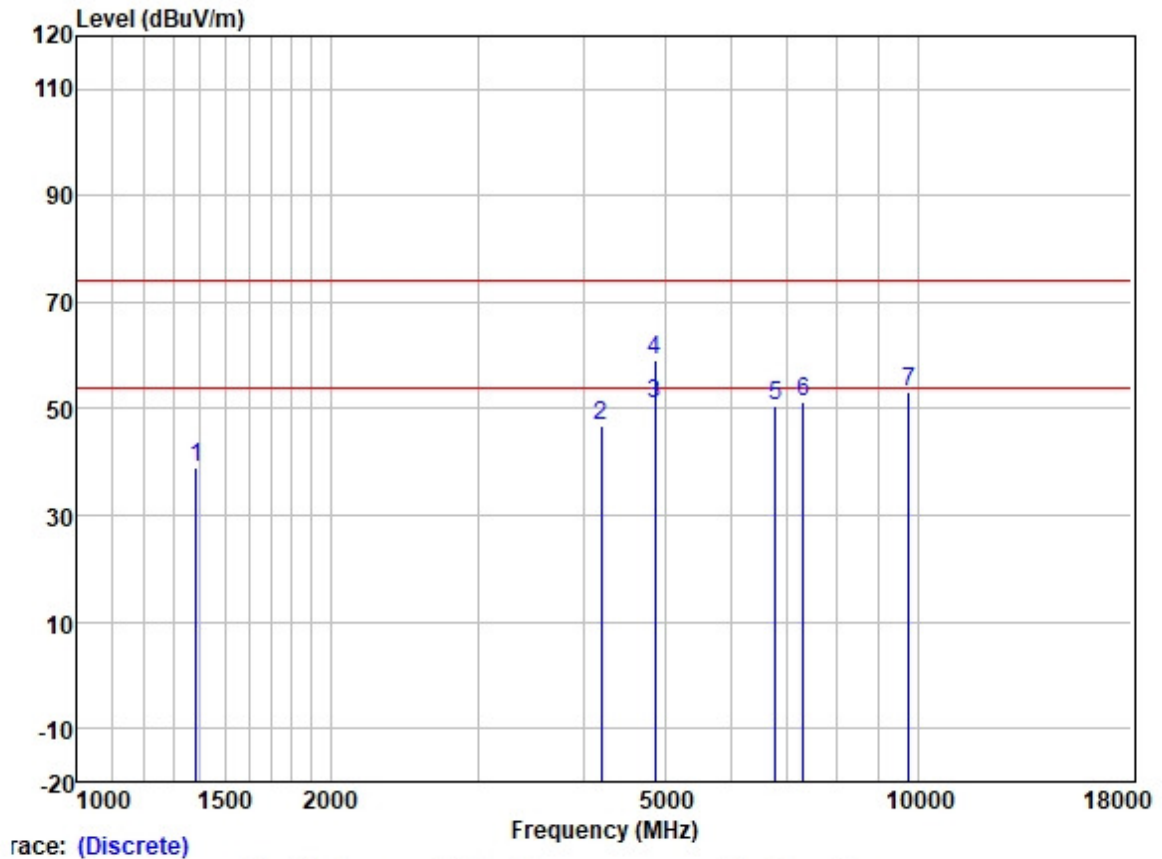
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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1172.018	49.57	24.56	2.39	38.40	38.12	74.00	-35.88	HORIZONTAL Peak
2	3977.269	49.93	29.78	4.60	36.81	47.50	74.00	-26.50	HORIZONTAL Peak
3	4874.000	52.12	31.54	5.50	36.84	52.32	54.00	-1.68	HORIZONTAL Average
4	4874.000	61.80	31.54	5.50	36.84	62.00	74.00	-12.00	HORIZONTAL Peak
5	5439.885	49.85	31.79	6.20	36.88	50.96	74.00	-23.04	HORIZONTAL Peak
6	7311.000	47.43	35.93	6.11	37.42	52.05	74.00	-21.95	HORIZONTAL Peak
7	9748.000	45.20	38.50	7.02	37.41	53.31	74.00	-20.69	HORIZONTAL Peak

Test Mode: 04; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: middle



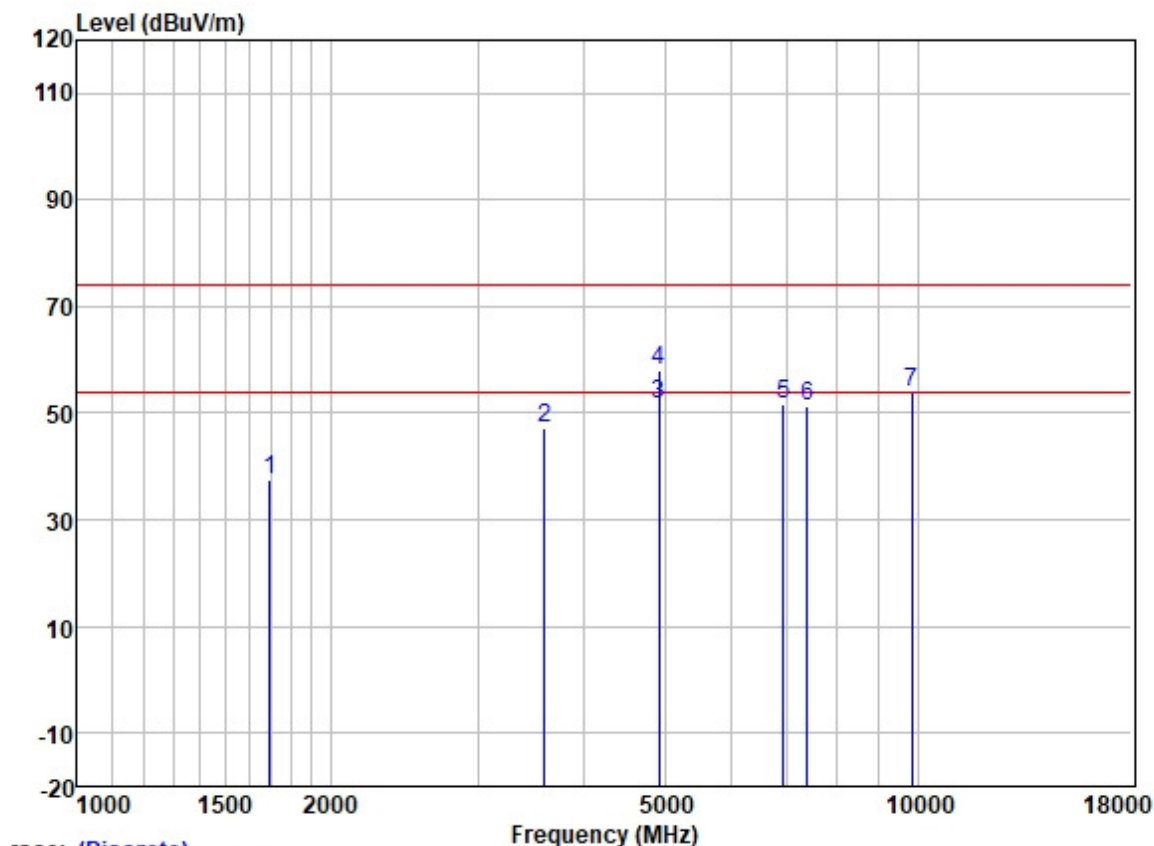
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1383.317	49.20	25.37	2.60	38.25	38.92	74.00	-35.08	VERTICAL Peak
2	4203.397	48.91	30.18	4.60	36.81	46.88	74.00	-27.12	VERTICAL Peak
3	4874.000	50.61	31.54	5.50	36.84	50.81	54.00	-3.19	VERTICAL Average
4	4874.000	59.07	31.54	5.50	36.84	59.27	74.00	-14.73	VERTICAL Peak
5	6776.265	47.17	34.61	5.82	37.11	50.49	74.00	-23.51	VERTICAL Peak
6	7311.000	46.74	35.93	6.11	37.42	51.36	74.00	-22.64	VERTICAL Peak
7	9748.000	45.19	38.50	7.02	37.41	53.30	74.00	-20.70	VERTICAL Peak



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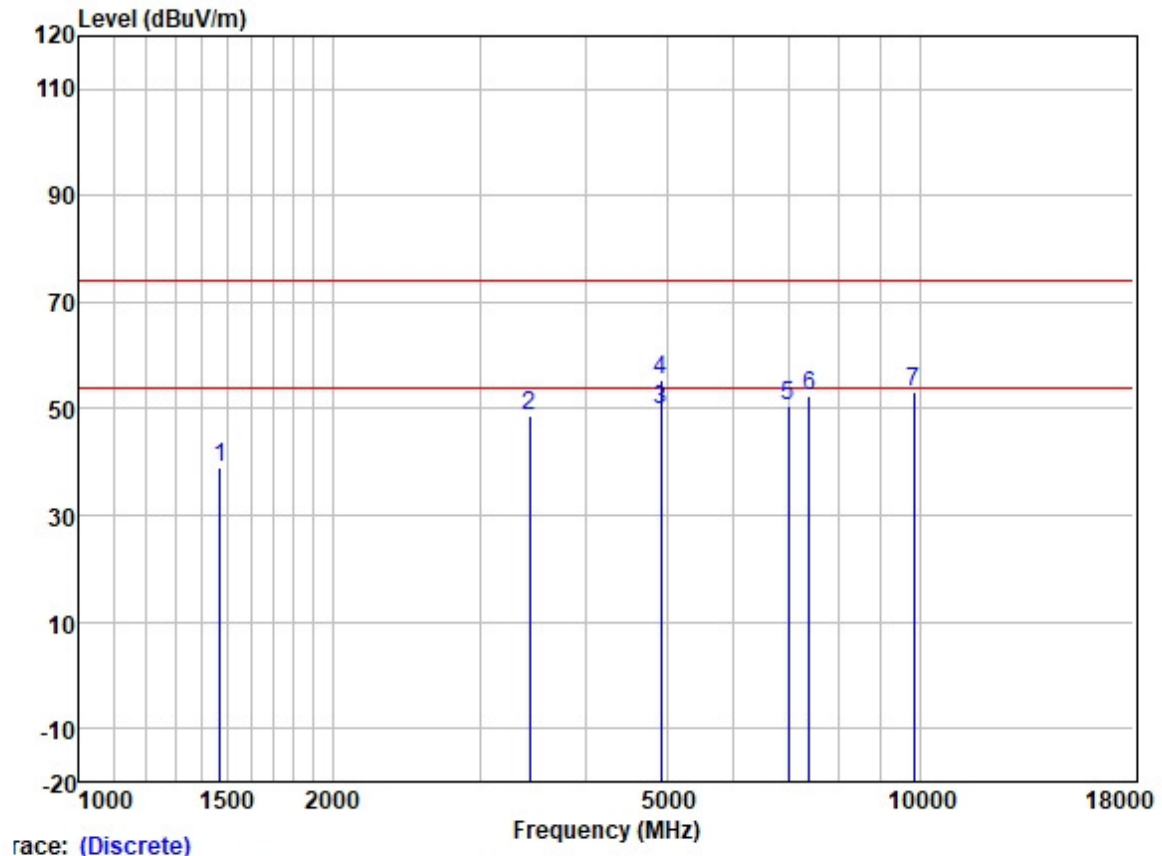
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1696.605	46.98	25.71	2.80	37.89	37.60	74.00	-36.40	HORIZONTAL	Peak
2	3593.519	50.56	29.04	4.50	36.91	47.19	74.00	-26.81	HORIZONTAL	Peak
3	4924.000	51.45	31.62	5.60	36.84	51.83	54.00	-2.17	HORIZONTAL	Average
4	4924.000	57.77	31.62	5.60	36.84	58.15	74.00	-15.85	HORIZONTAL	Peak
5	6914.763	48.21	34.89	5.81	37.19	51.72	74.00	-22.28	HORIZONTAL	Peak
6	7386.000	46.58	36.17	6.19	37.45	51.49	74.00	-22.51	HORIZONTAL	Peak
7	9848.000	45.68	38.58	6.99	37.41	53.84	74.00	-20.16	HORIZONTAL	Peak

Test Mode: 04; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High

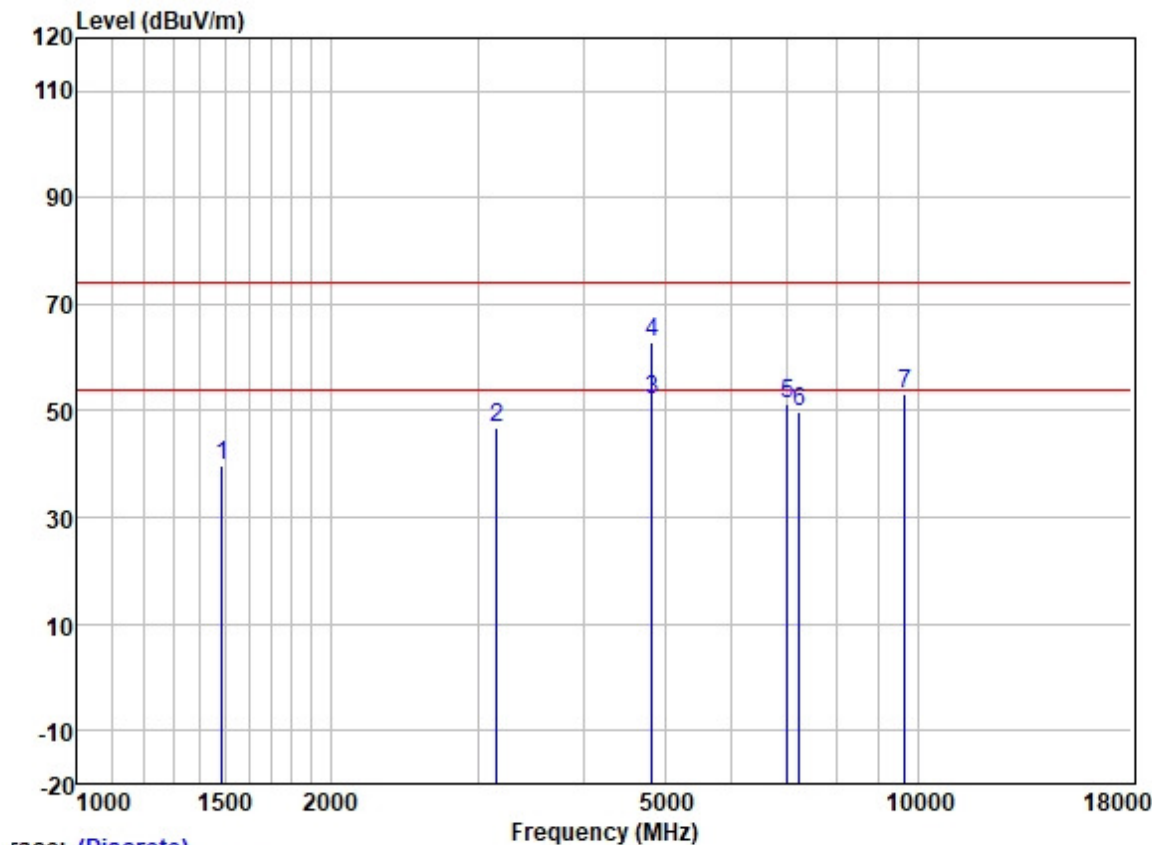


	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1471.925	48.76	25.48	2.76	38.13	38.87	74.00	-35.13	VERTICAL	Peak
2	3439.000	52.63	28.87	4.16	36.96	48.70	74.00	-25.30	VERTICAL	Peak
3	4924.000	49.60	31.62	5.60	36.84	49.98	54.00	-4.02	VERTICAL	Average
4	4924.000	54.86	31.62	5.60	36.84	55.24	74.00	-18.76	VERTICAL	Peak
5	6974.982	46.87	34.97	5.81	37.23	50.42	74.00	-23.58	VERTICAL	Peak
6	7386.000	47.53	36.17	6.19	37.45	52.44	74.00	-21.56	VERTICAL	Peak
7	9848.000	45.01	38.58	6.99	37.41	53.17	74.00	-20.83	VERTICAL	Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

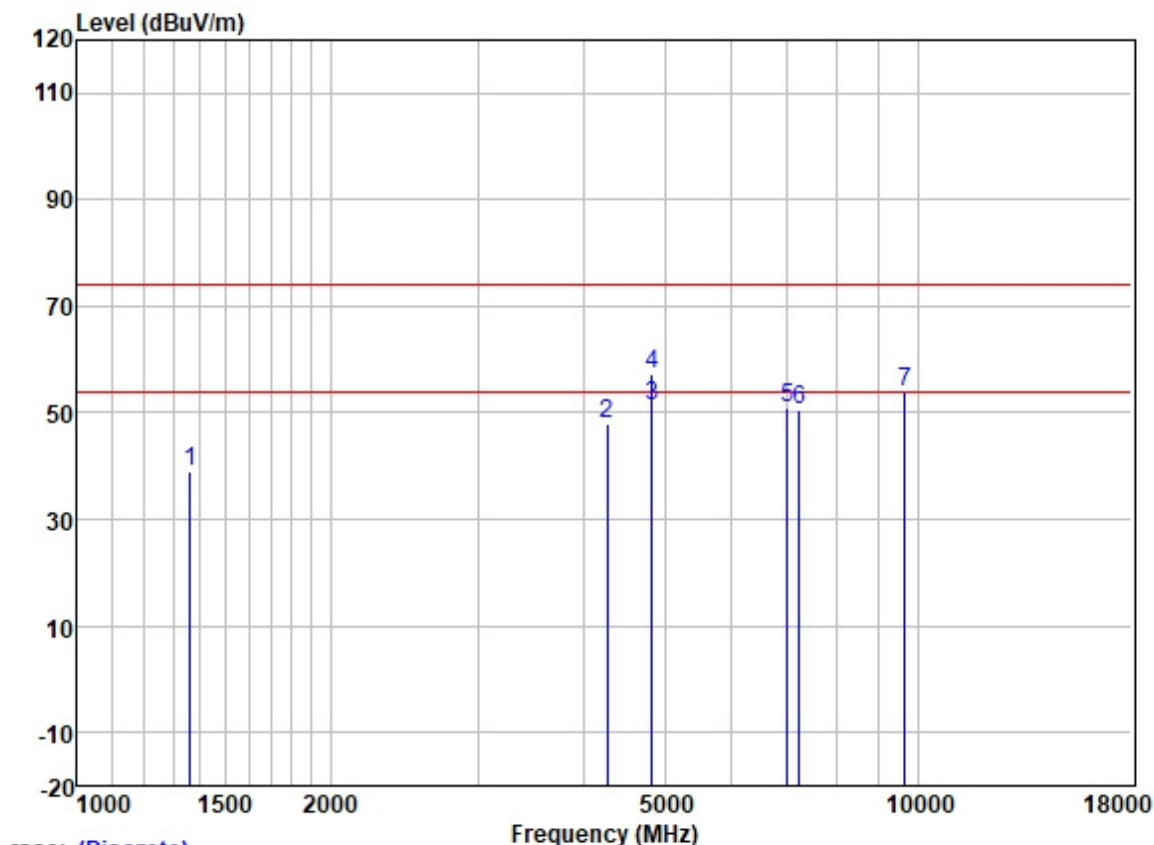
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1488.605	49.63	25.49	2.79	38.10	39.81	74.00	-34.19	HORIZONTAL Peak
2	3154.416	51.45	28.52	3.96	37.12	46.81	74.00	-27.19	HORIZONTAL Peak
3	4824.000	52.08	31.45	5.42	36.83	52.12	54.00	-1.88	HORIZONTAL Average
4	4824.000	62.79	31.45	5.42	36.83	62.83	74.00	-11.17	HORIZONTAL Peak
5	6995.172	47.63	35.00	5.81	37.25	51.19	74.00	-22.81	HORIZONTAL Peak
6	7236.000	45.44	35.70	6.03	37.39	49.78	74.00	-24.22	HORIZONTAL Peak
7	9648.000	44.97	38.40	7.06	37.42	53.01	74.00	-20.99	HORIZONTAL Peak



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Test Mode: 04; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

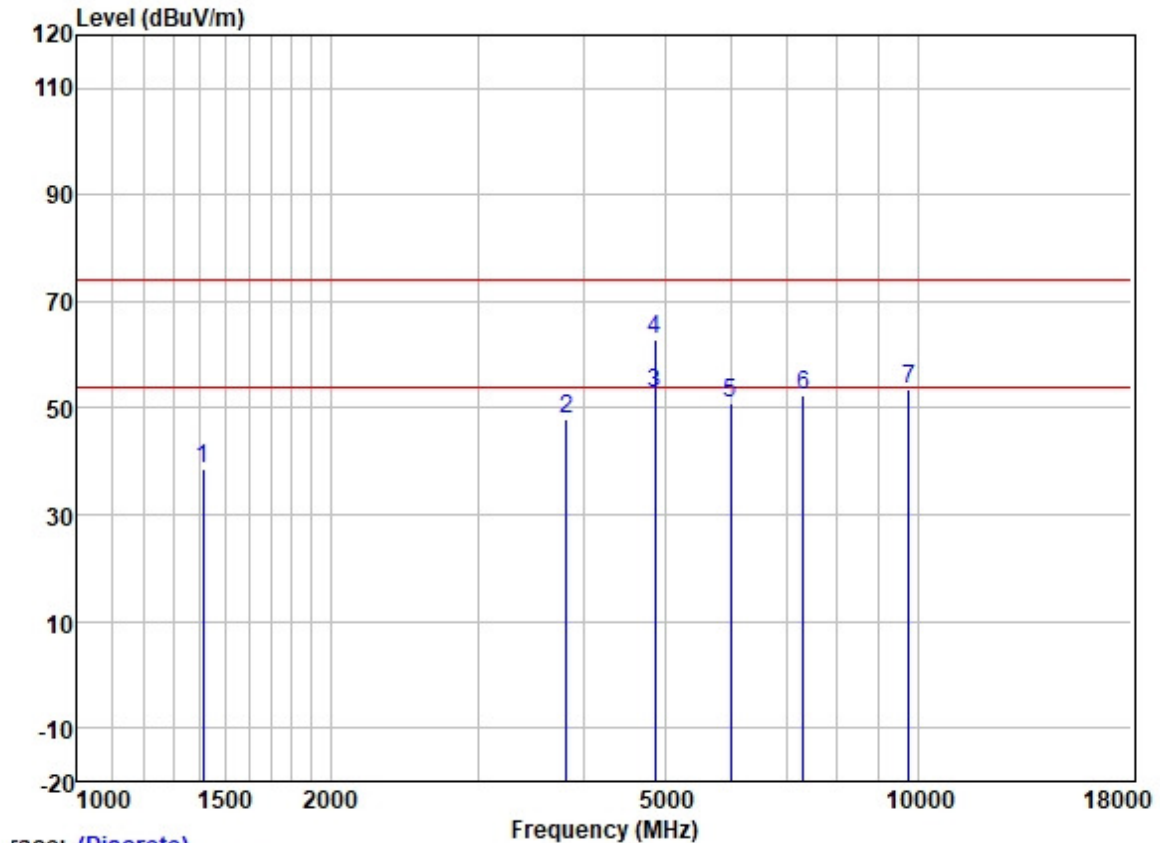


	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1363.110	49.15	25.33	2.60	38.25	38.83	74.00	-35.17	VERTICAL Peak
2	4274.383	49.78	30.42	4.63	36.81	48.02	74.00	-25.98	VERTICAL Peak
3	4824.000	51.45	31.45	5.42	36.83	51.49	54.00	-2.51	VERTICAL Average
4	4824.000	57.24	31.45	5.42	36.83	57.28	74.00	-16.72	VERTICAL Peak
5	6995.172	47.31	35.00	5.81	37.25	50.87	74.00	-23.13	VERTICAL Peak
6	7236.000	46.33	35.70	6.03	37.39	50.67	74.00	-23.33	VERTICAL Peak
7	9648.000	45.87	38.40	7.06	37.42	53.91	74.00	-20.09	VERTICAL Peak



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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle

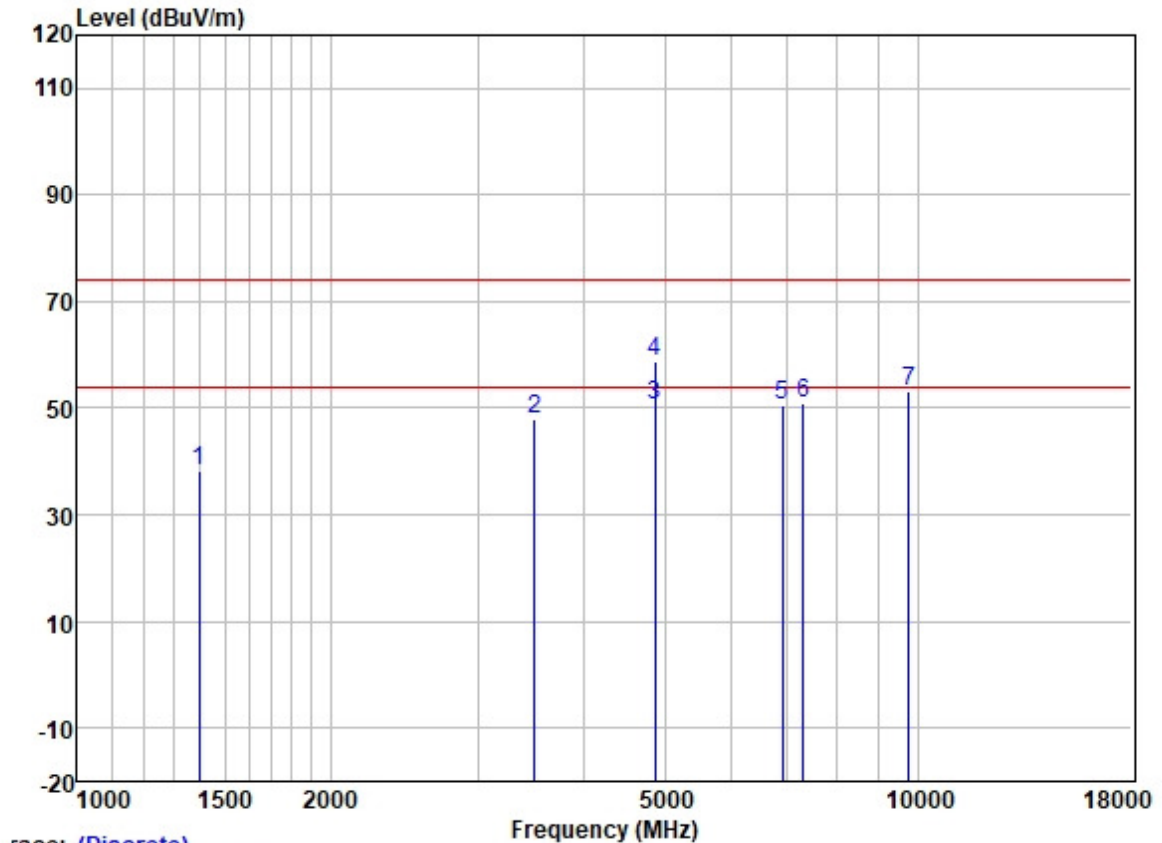


	Read Freq	Antenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1410.642	48.74	25.40	2.62	38.22	38.54	74.00	-35.46	HORIZONTAL	Peak
2	3819.685	50.57	29.57	4.60	36.84	47.90	74.00	-26.10	HORIZONTAL	Peak
3	4874.000	52.49	31.54	5.50	36.84	52.69	54.00	-1.31	HORIZONTAL	Average
4	4874.000	62.62	31.54	5.50	36.84	62.82	74.00	-11.18	HORIZONTAL	Peak
5	5984.305	49.25	32.39	6.15	36.90	50.89	74.00	-23.11	HORIZONTAL	Peak
6	7311.000	47.75	35.93	6.11	37.42	52.37	74.00	-21.63	HORIZONTAL	Peak
7	9748.000	45.35	38.50	7.02	37.41	53.46	74.00	-20.54	HORIZONTAL	Peak



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Test Mode: 04; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle

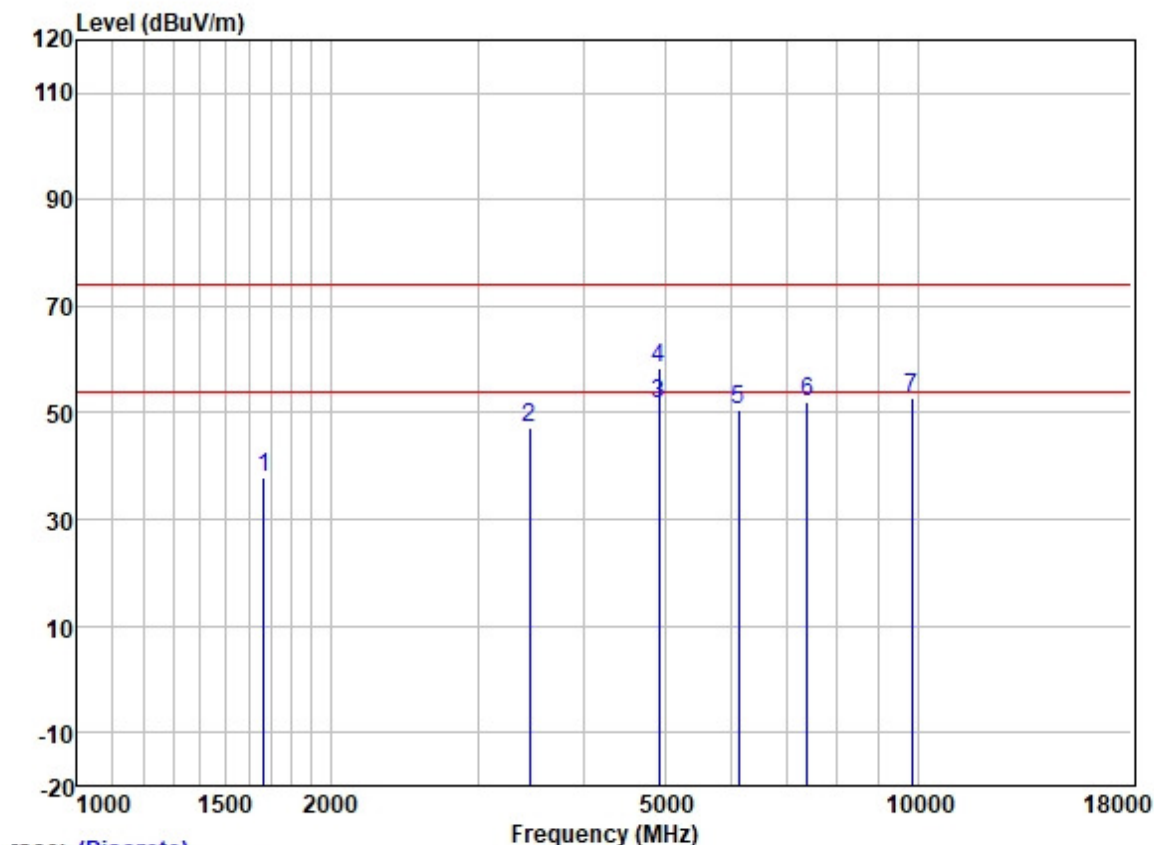


		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1394.551	48.44	25.38	2.60	38.22	38.20	74.00	-35.80	VERTICAL	Peak
2	3499.962	51.70	28.90	4.30	36.94	47.96	74.00	-26.04	VERTICAL	Peak
3	4874.000	50.48	31.54	5.50	36.84	50.68	54.00	-3.32	VERTICAL	Average
4	4874.000	58.40	31.54	5.50	36.84	58.60	74.00	-15.40	VERTICAL	Peak
5	6894.806	47.08	34.85	5.81	37.18	50.56	74.00	-23.44	VERTICAL	Peak
6	7311.000	46.30	35.93	6.11	37.42	50.92	74.00	-23.08	VERTICAL	Peak
7	9748.000	45.10	38.50	7.02	37.41	53.21	74.00	-20.79	VERTICAL	Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

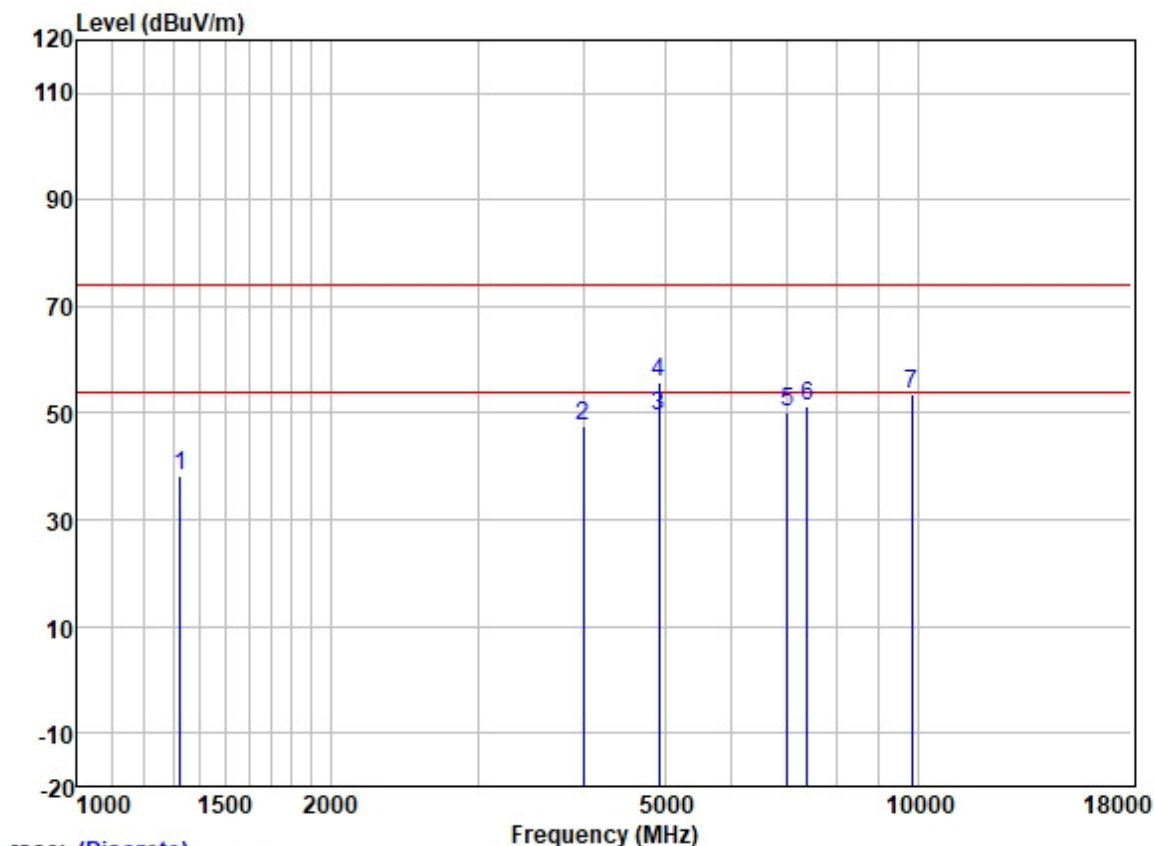


	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1667.134	47.33	25.66	2.80	37.91	37.88	74.00	-36.12	HORIZONTAL Peak
2	3454.090	51.10	28.88	4.20	36.96	47.22	74.00	-26.78	HORIZONTAL Peak
3	4924.000	51.26	31.62	5.60	36.84	51.64	54.00	-2.36	HORIZONTAL Average
4	4924.000	58.03	31.62	5.60	36.84	58.41	74.00	-15.59	HORIZONTAL Peak
5	6127.652	48.72	32.72	6.13	36.92	50.65	74.00	-23.35	HORIZONTAL Peak
6	7386.000	47.07	36.17	6.19	37.45	51.98	74.00	-22.02	HORIZONTAL Peak
7	9848.000	44.82	38.58	6.99	37.41	52.98	74.00	-21.02	HORIZONTAL Peak



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Test Mode: 04; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



		ReadAntenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1324.737	48.68	25.26	2.60	38.29	38.25	74.00	-35.75	VERTICAL Peak
2	4003.103	49.90	29.80	4.60	36.80	47.50	74.00	-26.50	VERTICAL Peak
3	4924.000	48.98	31.62	5.60	36.84	49.36	54.00	-4.64	VERTICAL Average
4	4924.000	55.51	31.62	5.60	36.84	55.89	74.00	-18.11	VERTICAL Peak
5	6995.172	46.72	35.00	5.81	37.25	50.28	74.00	-23.72	VERTICAL Peak
6	7386.000	46.50	36.17	6.19	37.45	51.41	74.00	-22.59	VERTICAL Peak
7	9848.000	45.49	38.58	6.99	37.41	53.65	74.00	-20.35	VERTICAL Peak



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8 Test Setup Photo

Refer to Appendix – Test Setup Photos for GZCR2108020821AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for GZCR2108020821AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

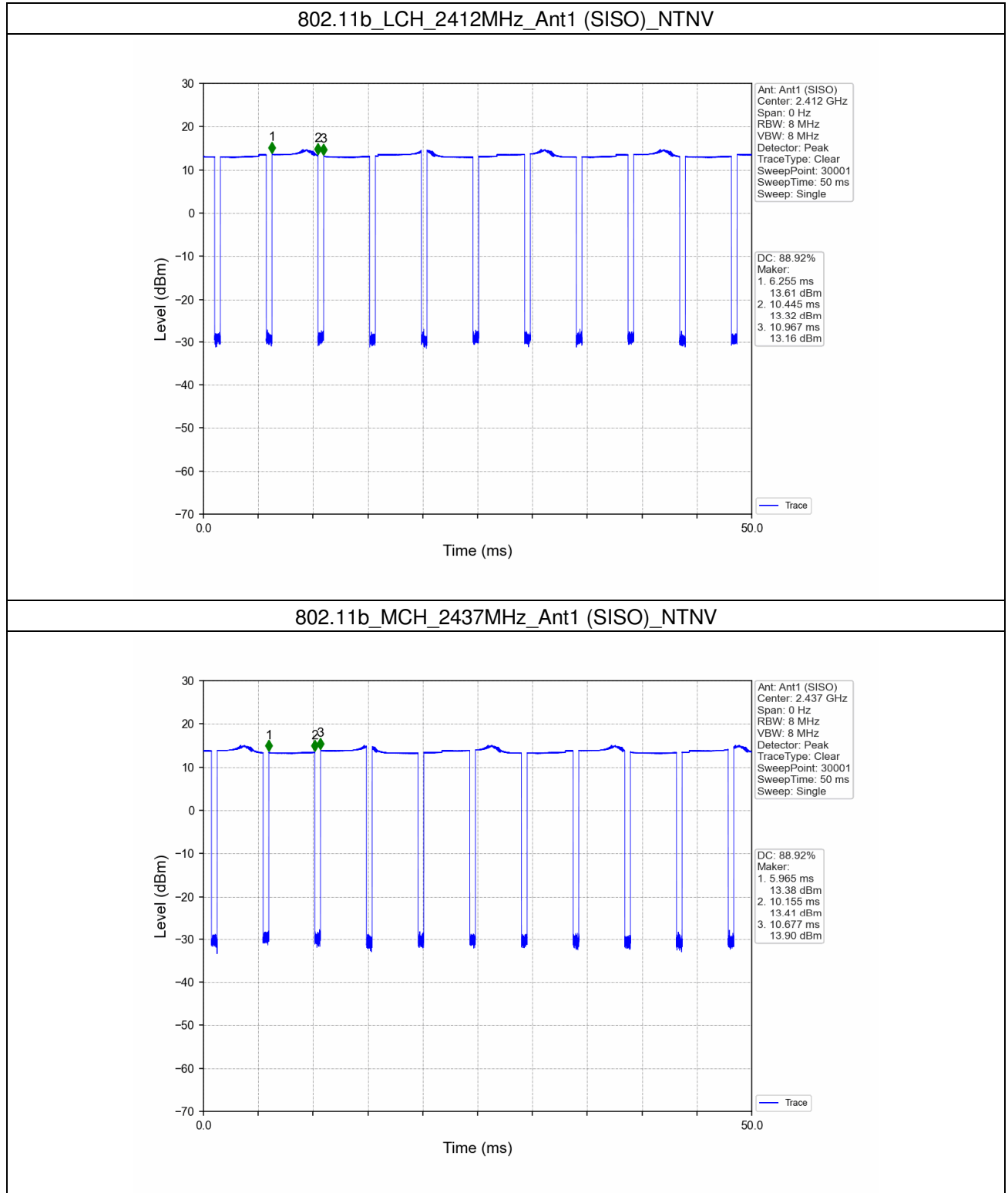
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	4.190	4.712	88.92	0.51	0.04
		2437	4.190	4.712	88.92	0.51	0.07
		2462	4.167	4.713	88.42	0.53	0.07
802.11g	SISO	2412	0.692	0.795	87.04	0.60	0.09
		2437	0.692	0.794	87.15	0.60	0.12
		2462	0.686	0.796	86.18	0.65	0.12
802.11n (HT20)	SISO	2412	0.656	0.759	86.43	0.63	0.04
		2437	0.651	0.754	86.34	0.64	0.16
		2462	0.656	0.760	86.32	0.64	0.00



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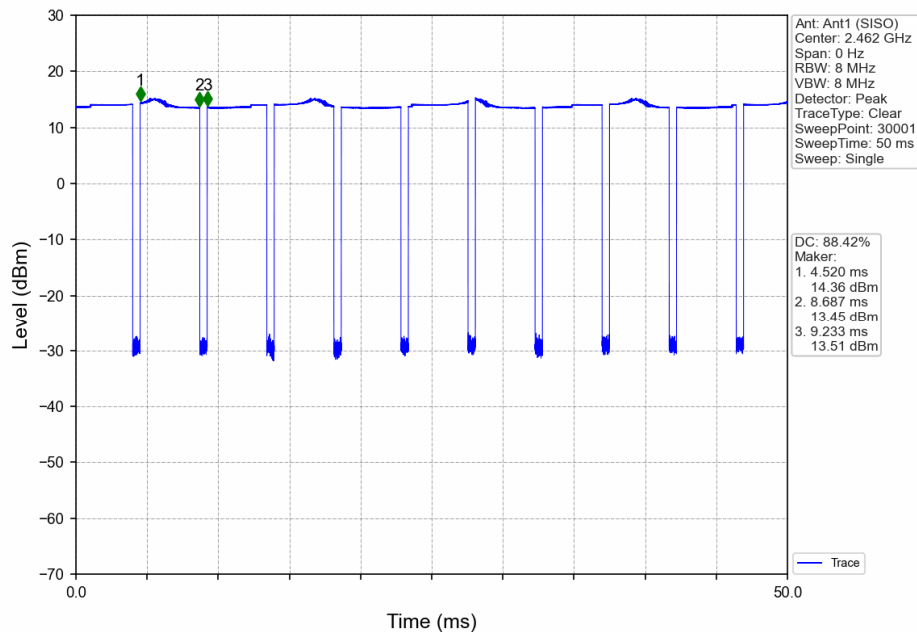
1.1.2 Test Graph



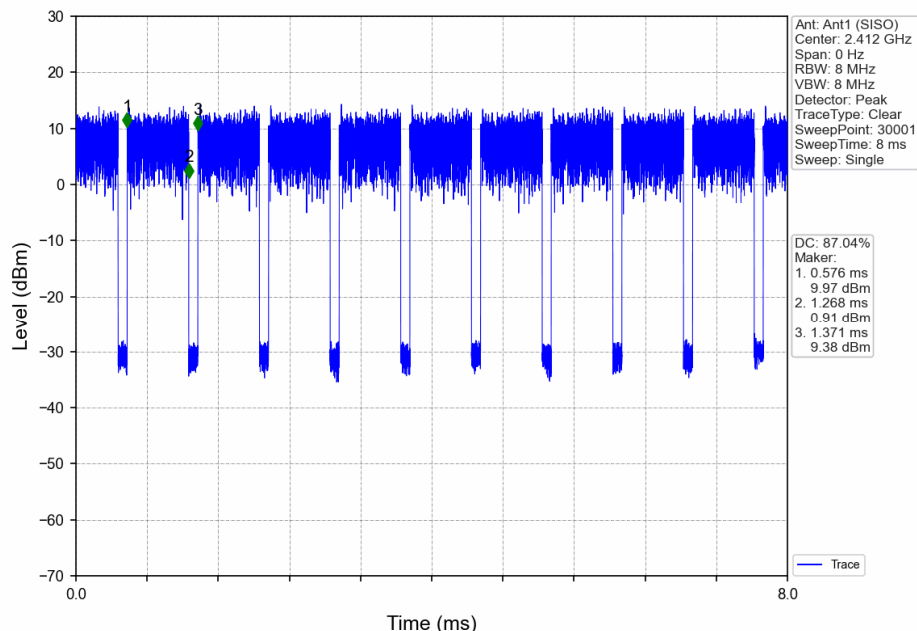
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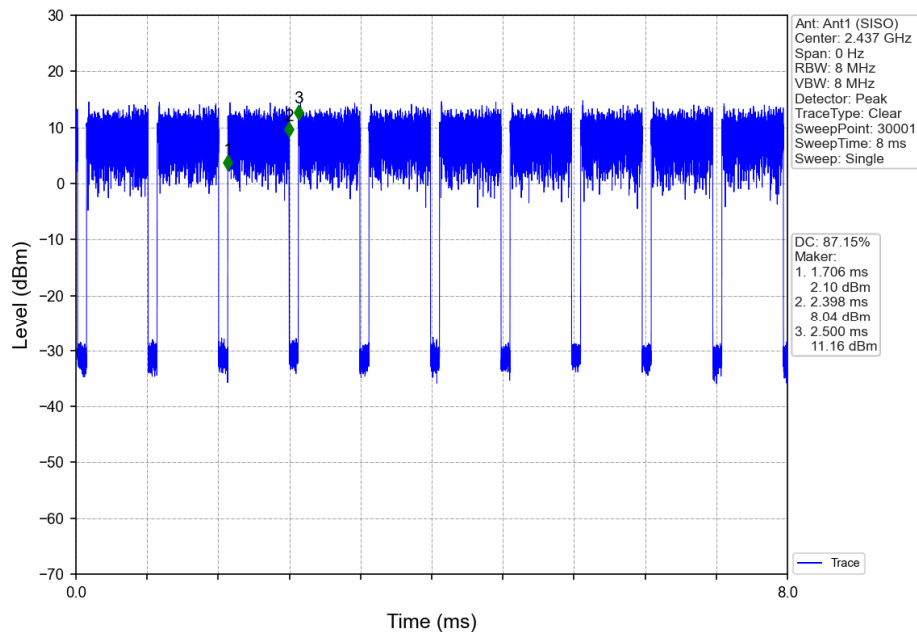
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



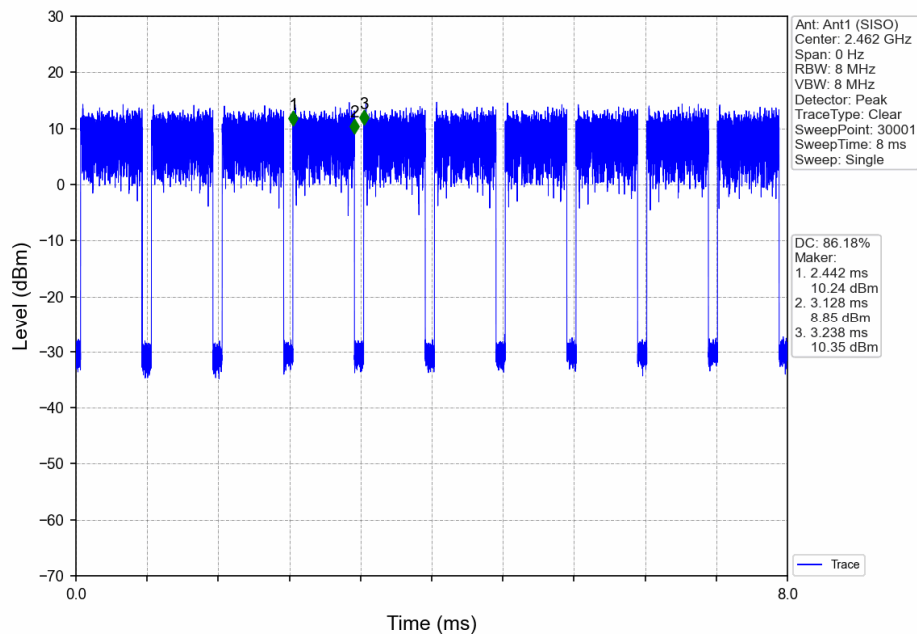
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



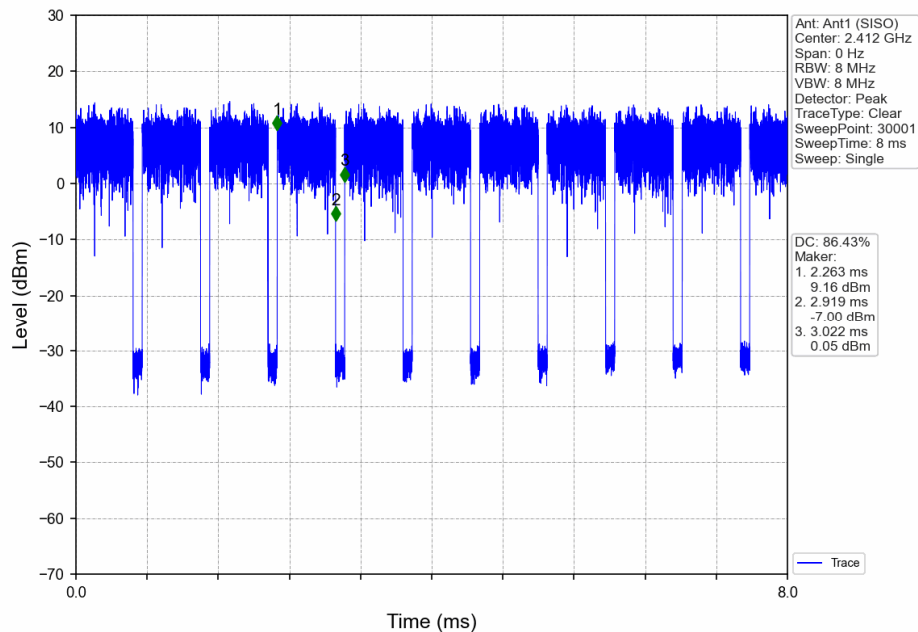
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



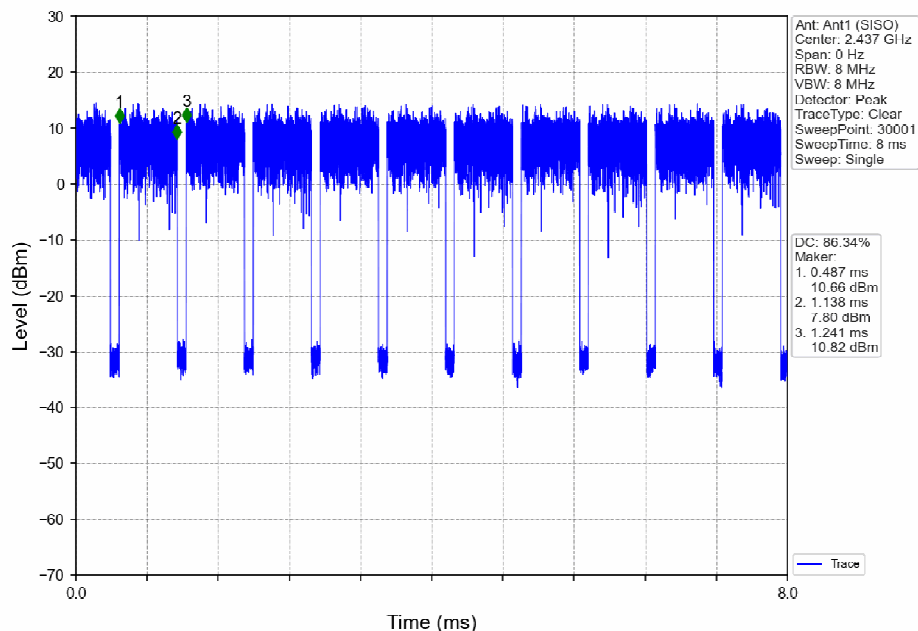
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



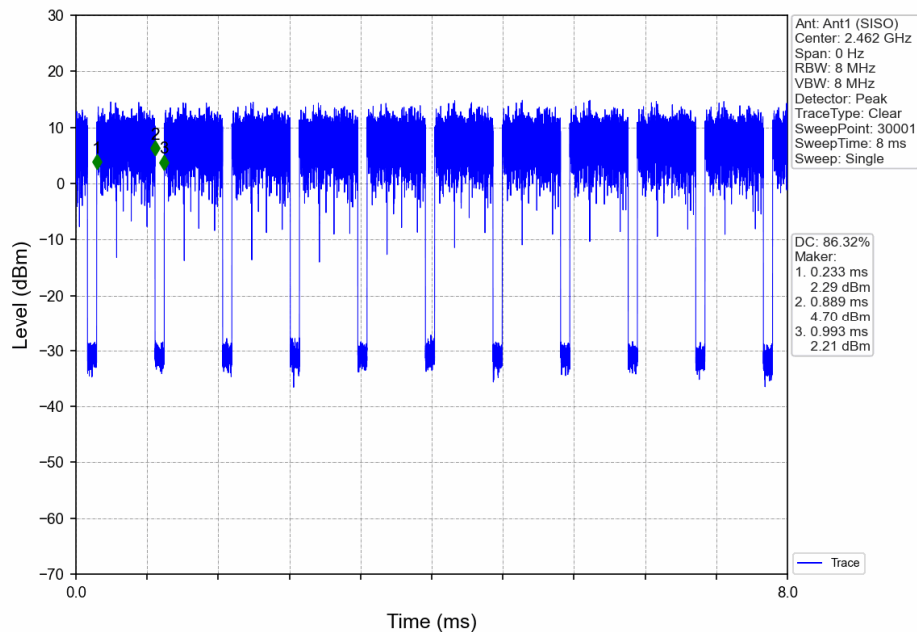
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

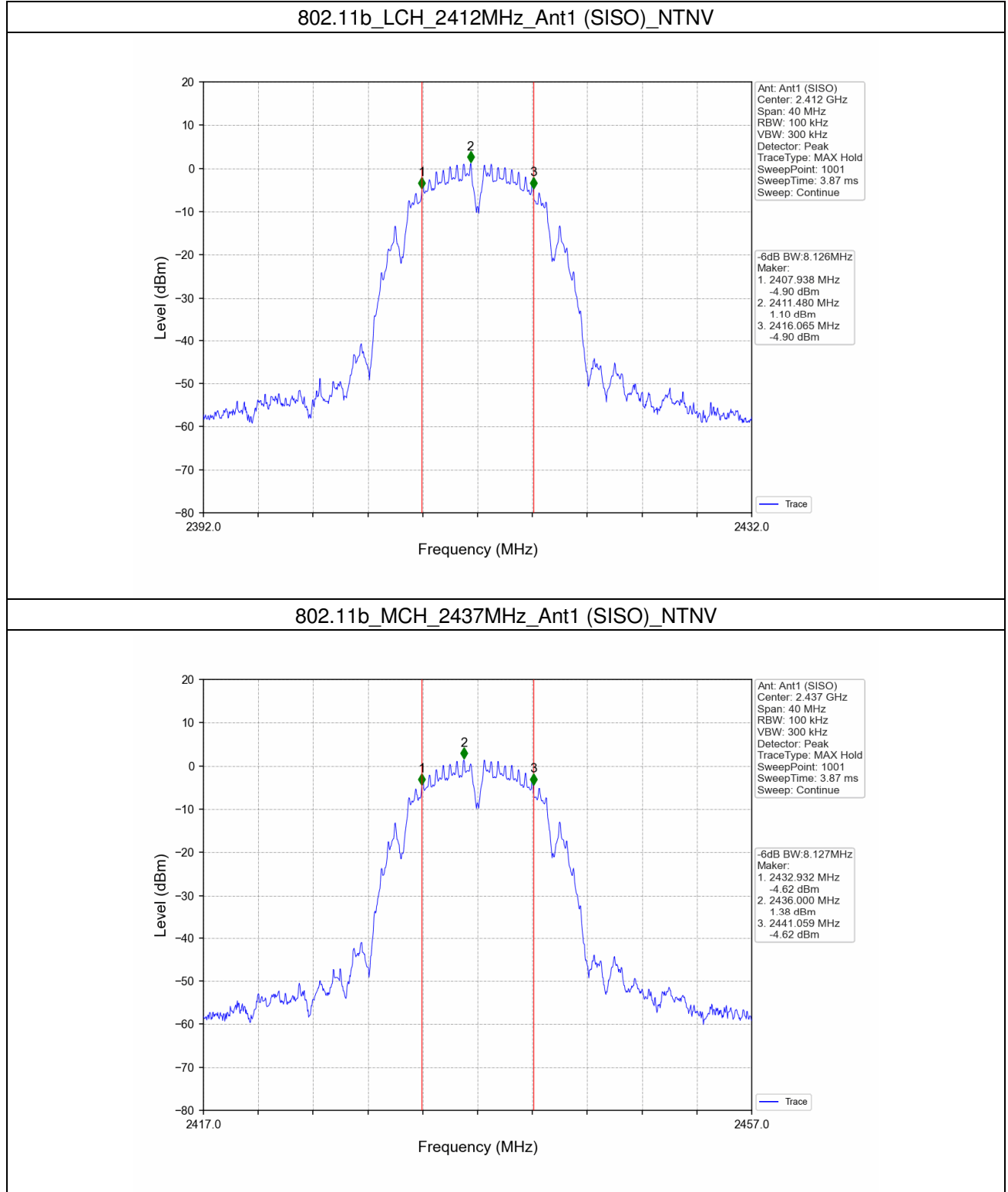
2.1 6dB BW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.126	≥ 0.5	Pass
		2437	1	8.127	≥ 0.5	Pass
		2462	1	8.117	≥ 0.5	Pass
802.11g	SISO	2412	1	16.343	≥ 0.5	Pass
		2437	1	16.331	≥ 0.5	Pass
		2462	1	16.327	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.627	≥ 0.5	Pass
		2437	1	16.615	≥ 0.5	Pass
		2462	1	16.617	≥ 0.5	Pass

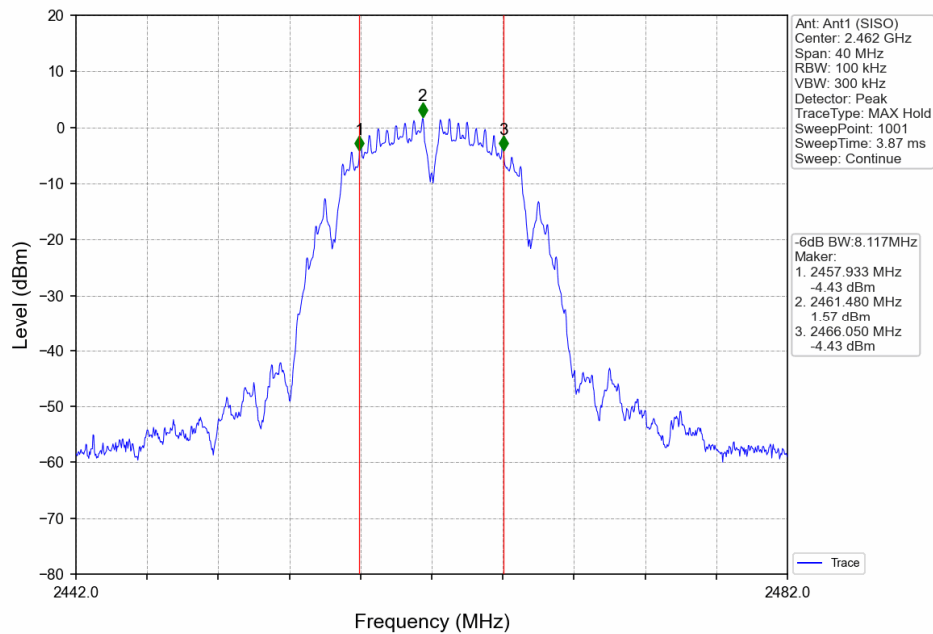


2.1.2 Test Graph

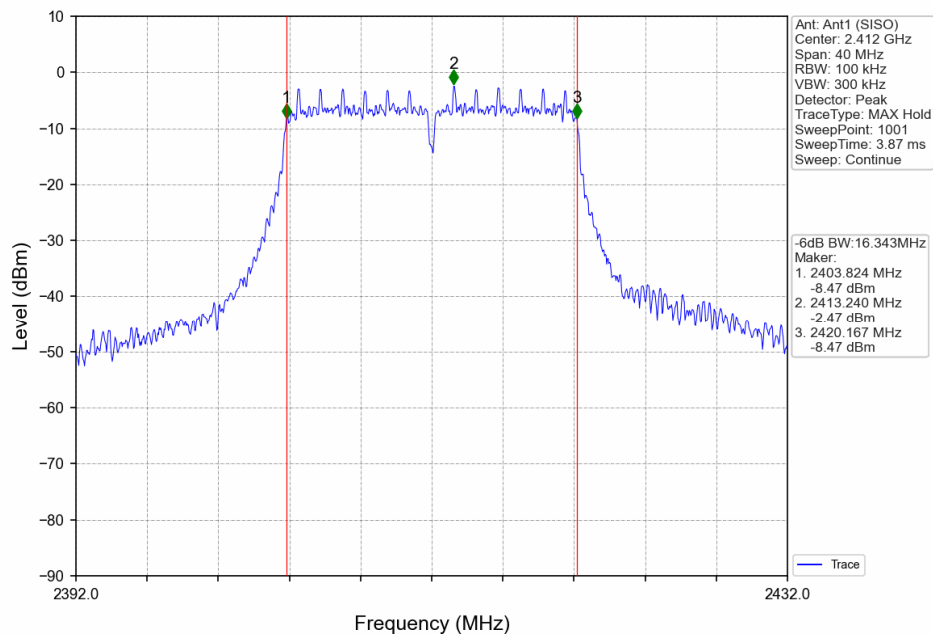


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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



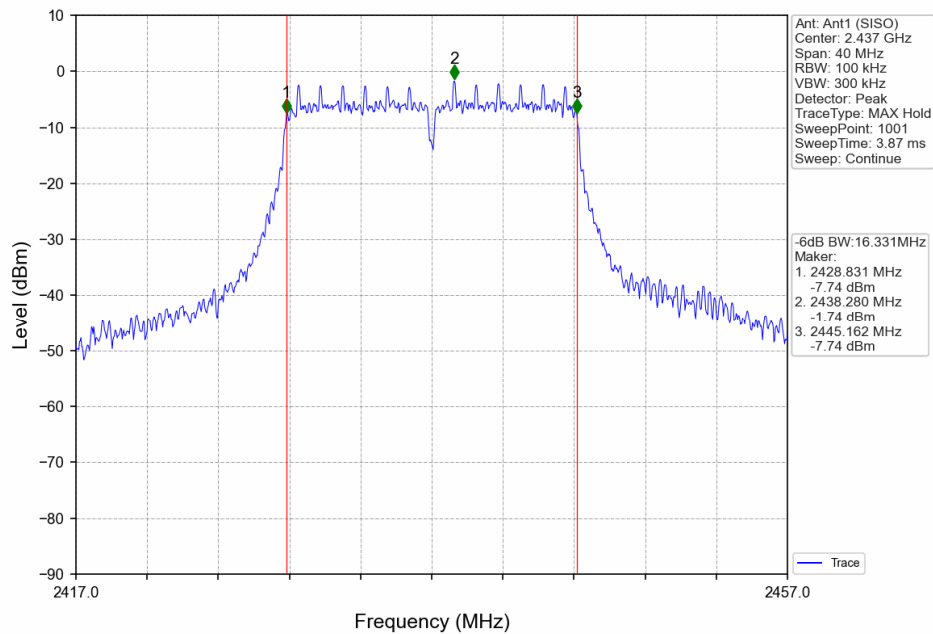
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



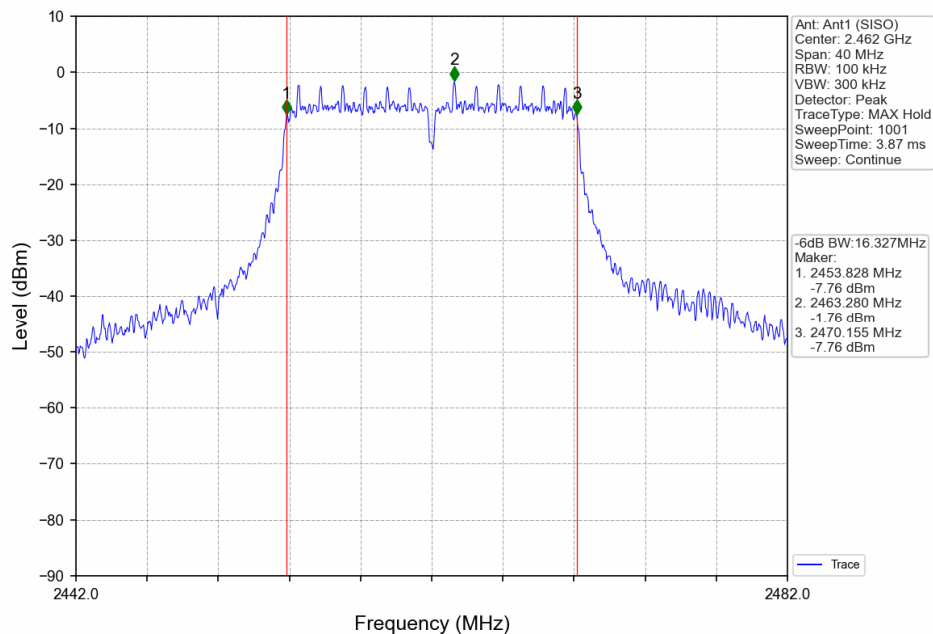
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



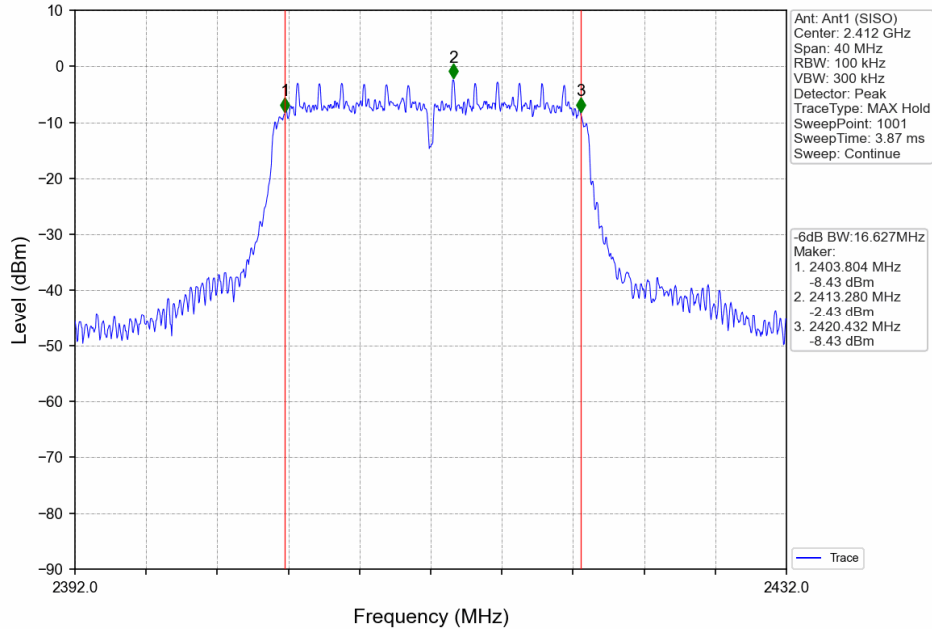
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



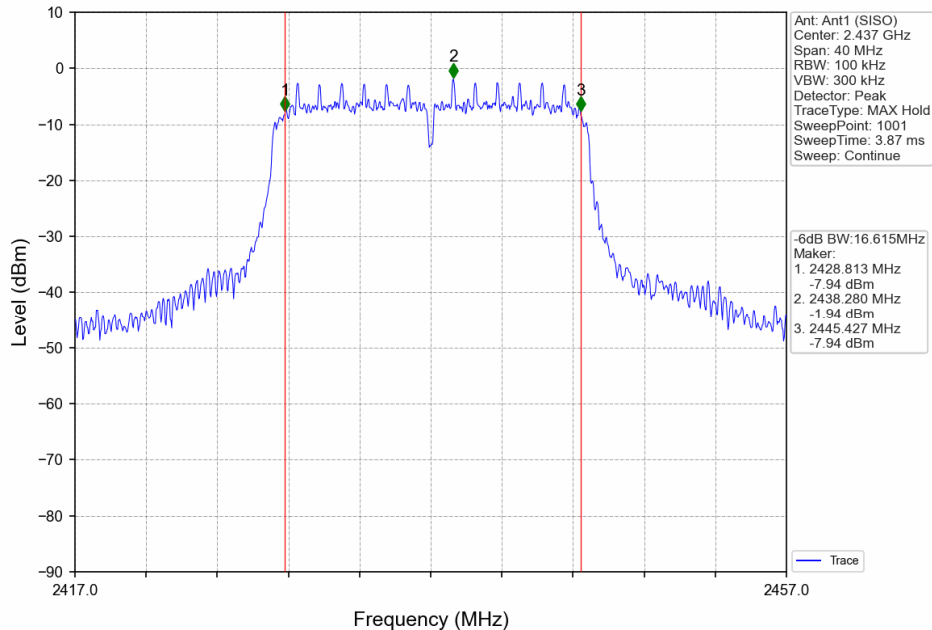
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



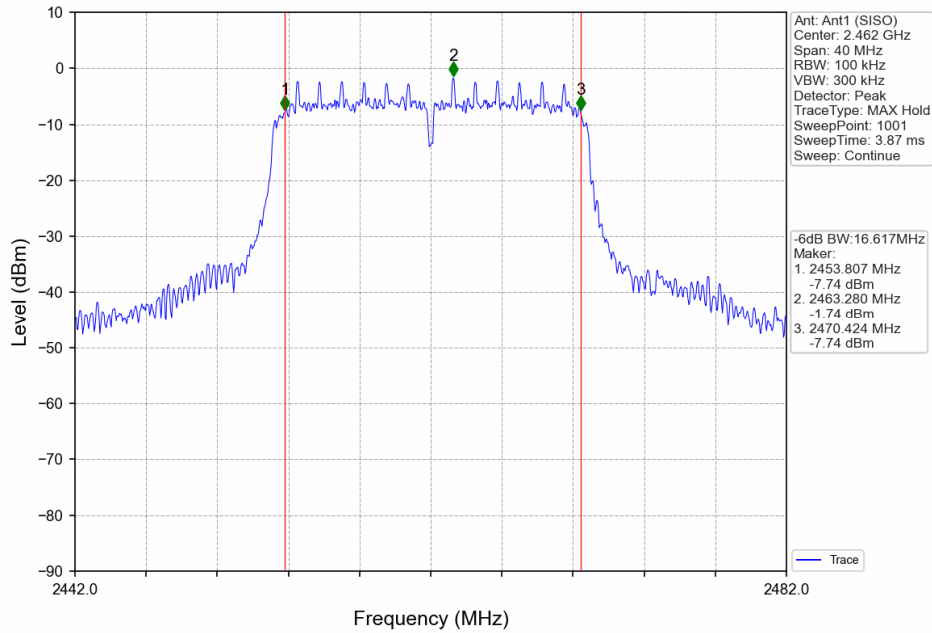
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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802.11n(HT20)_HCH_2462MHz_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 Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	9.08	<=30	Pass
		2437	9.58	<=30	Pass
		2462	9.78	<=30	Pass
802.11g	SISO	2412	9.10	<=30	Pass
		2437	9.33	<=30	Pass
		2462	9.48	<=30	Pass
802.11n (HT20)	SISO	2412	8.69	<=30	Pass
		2437	9.07	<=30	Pass
		2462	9.23	<=30	Pass

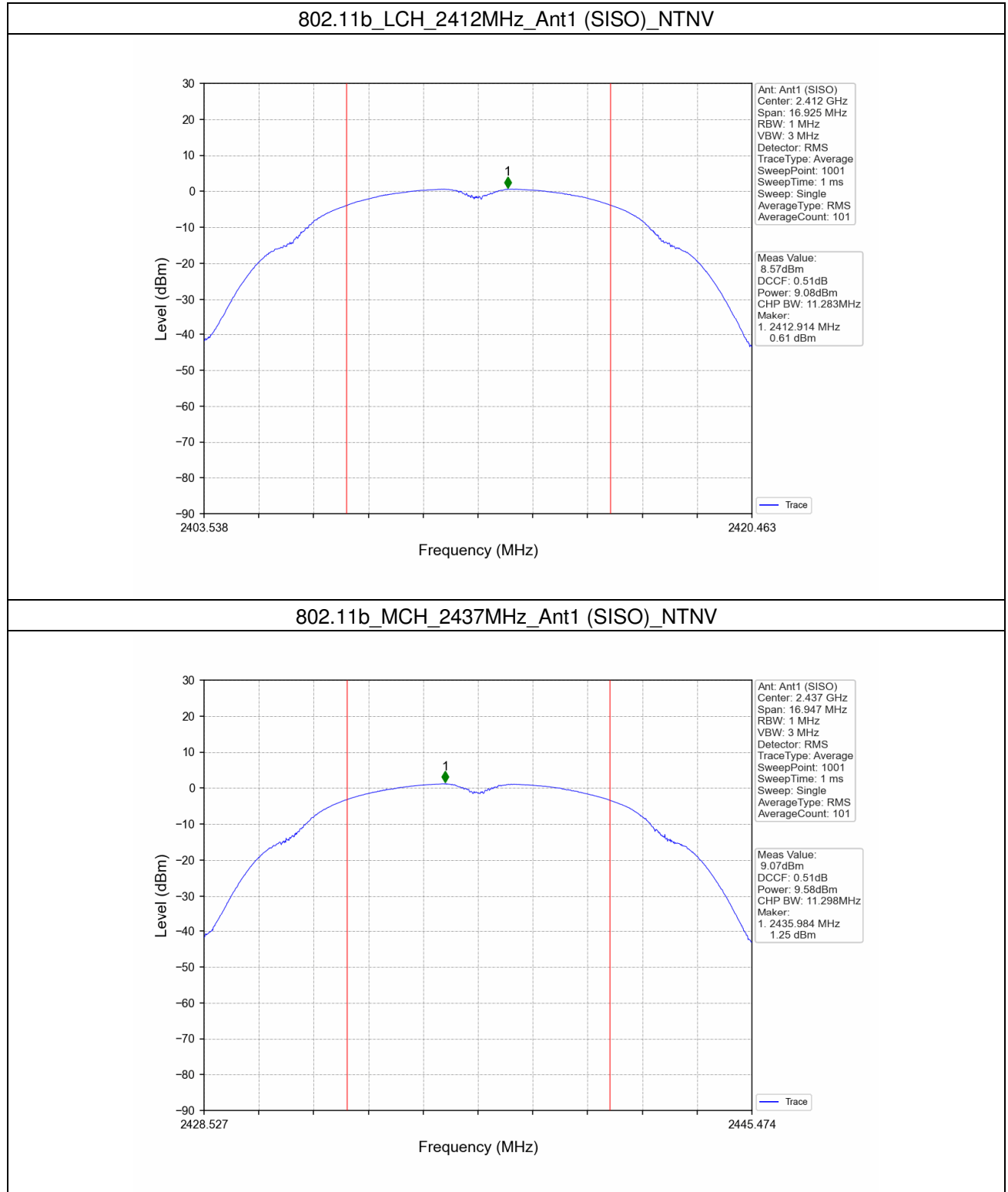
Note1: Antenna Gain: Ant1: -3.05dBi;



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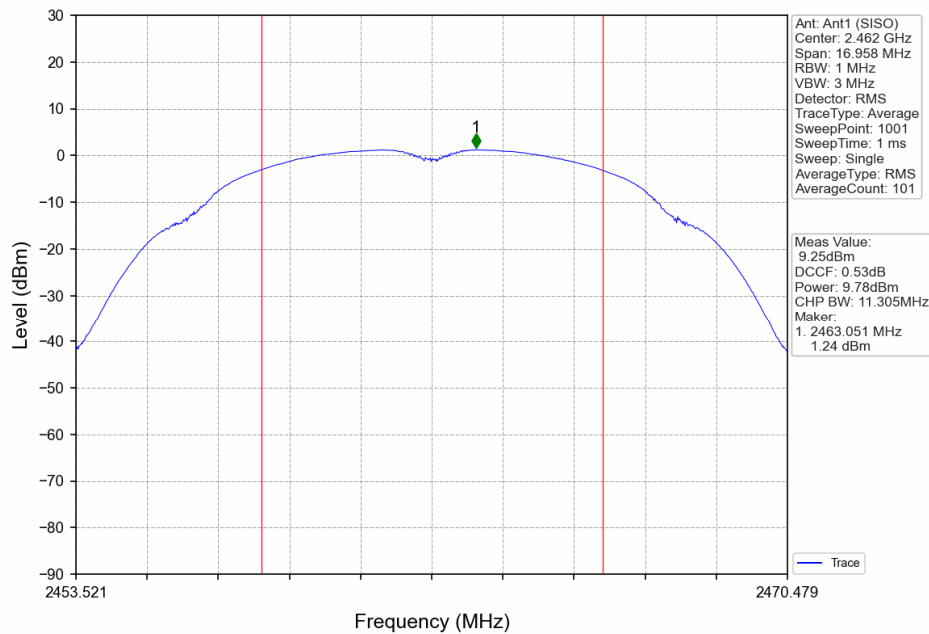
3.1.2 Test Graph



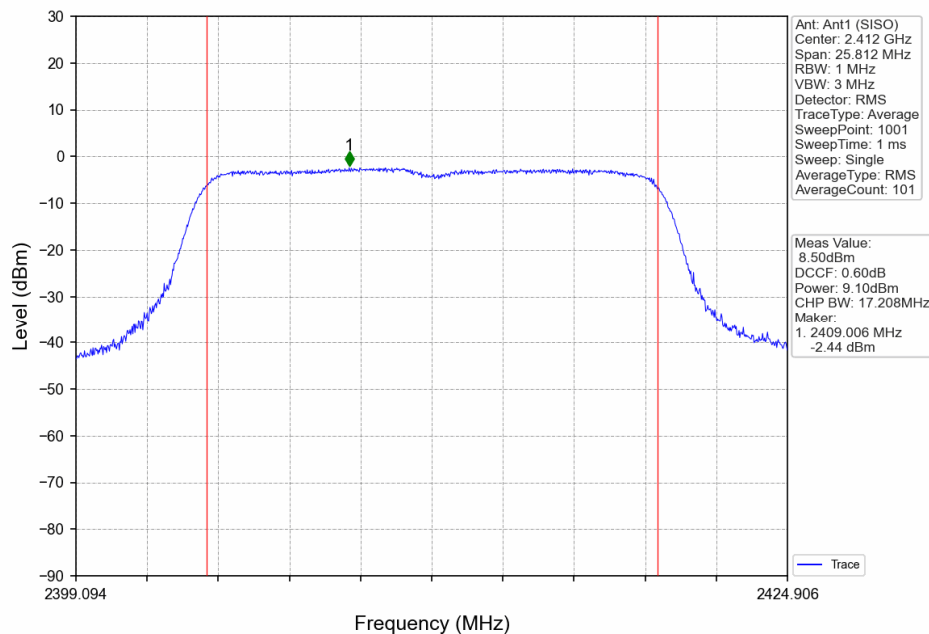
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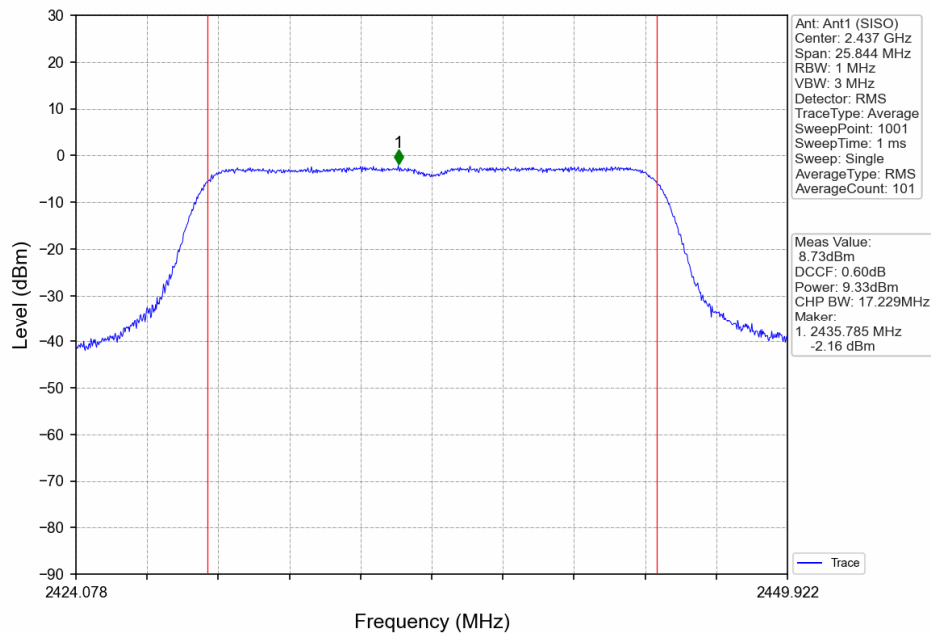
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



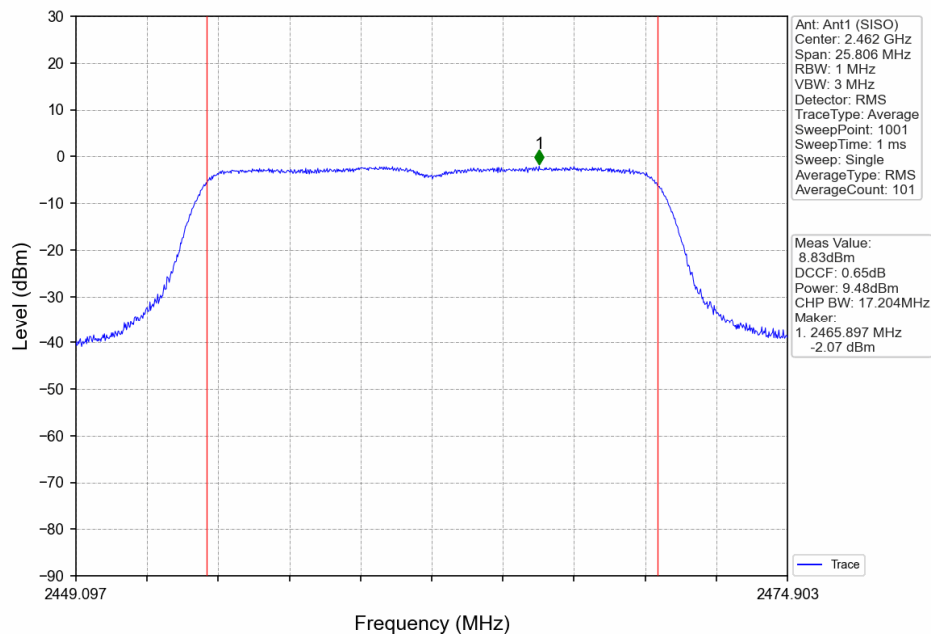
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



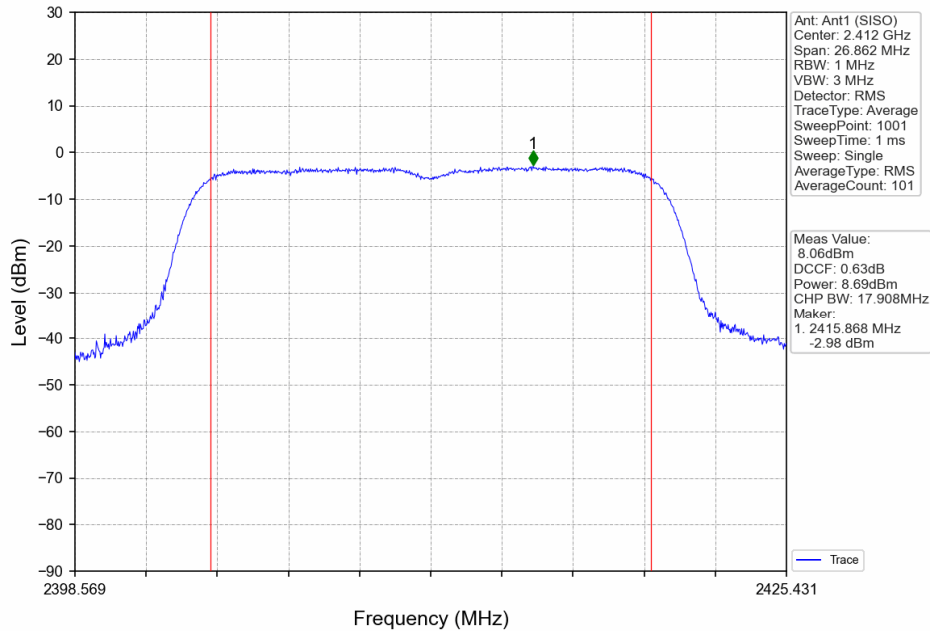
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



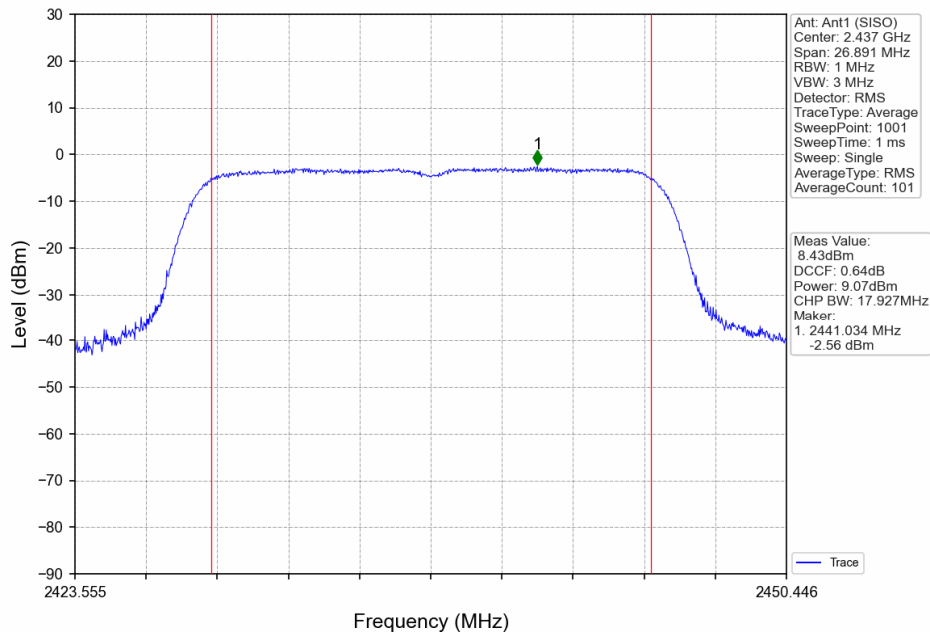
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



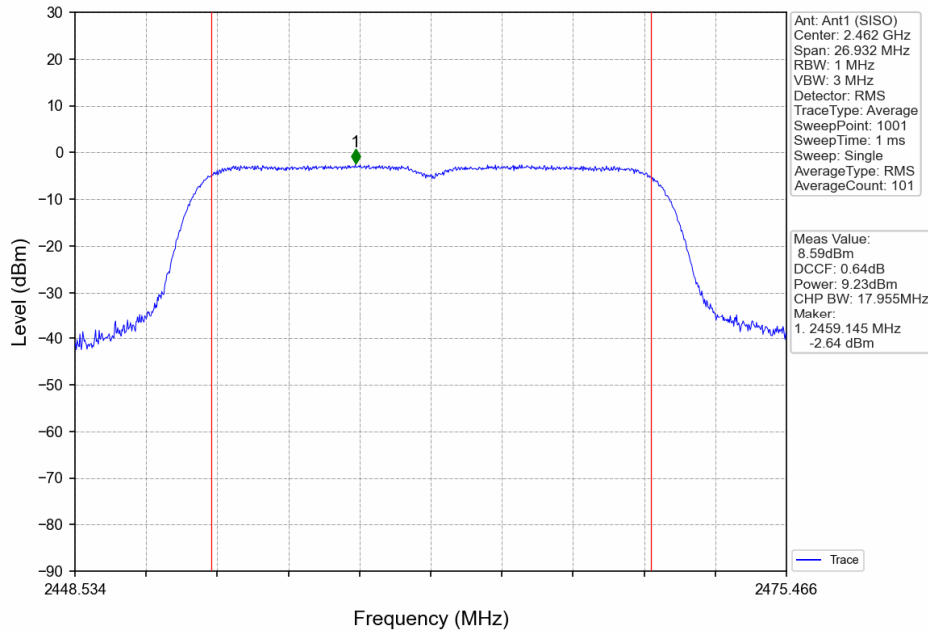
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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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	Limit	
802.11b	SISO	2412	-13.53	<=8	Pass
		2437	-14.10	<=8	Pass
		2462	-13.37	<=8	Pass
802.11g	SISO	2412	-16.44	<=8	Pass
		2437	-15.88	<=8	Pass
		2462	-15.47	<=8	Pass
802.11n (HT20)	SISO	2412	-16.37	<=8	Pass
		2437	-16.23	<=8	Pass
		2462	-16.16	<=8	Pass

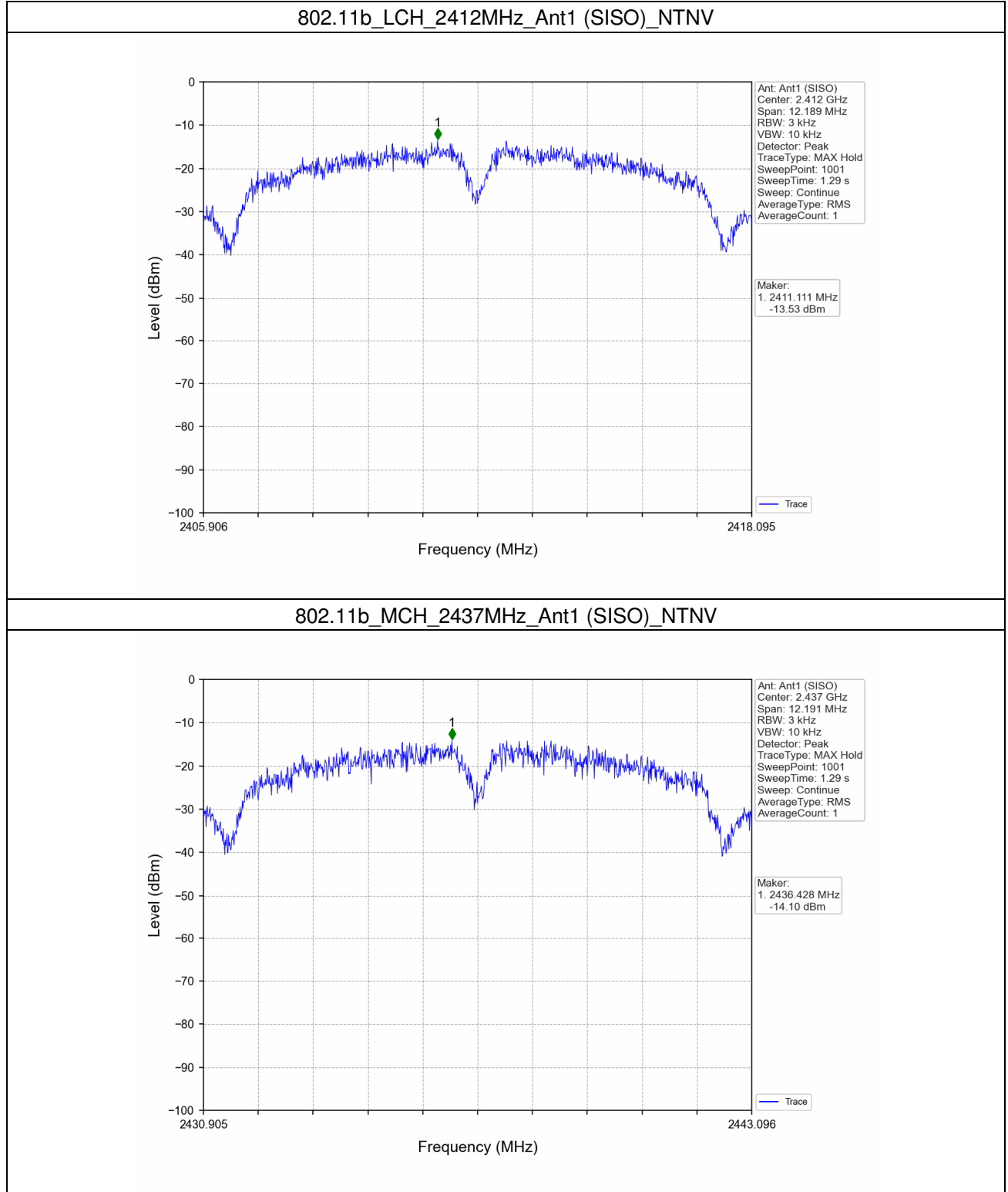
Note1: Antenna Gain: Ant1: -3.05dBi;



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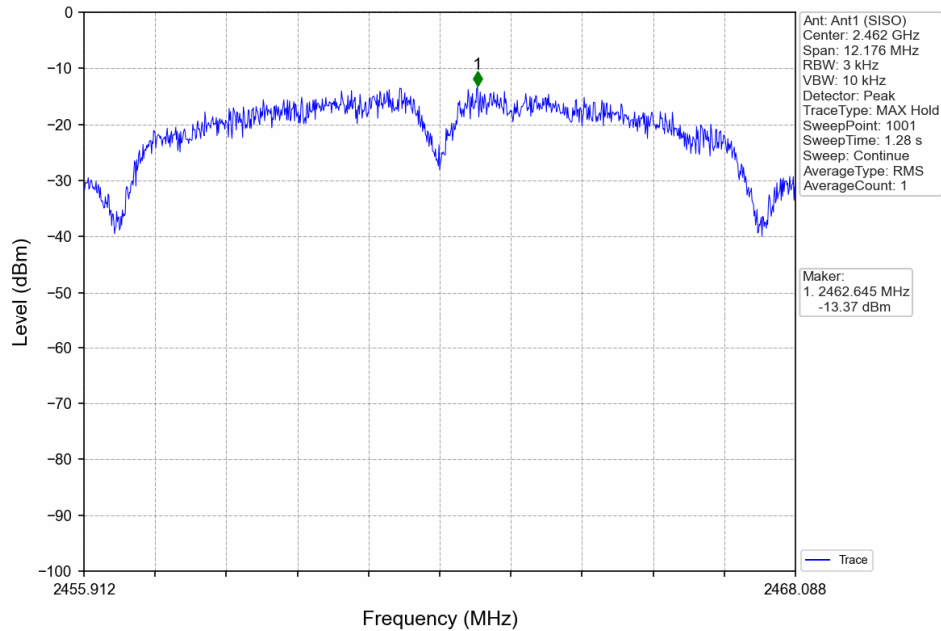
4.1.2 Test Graph



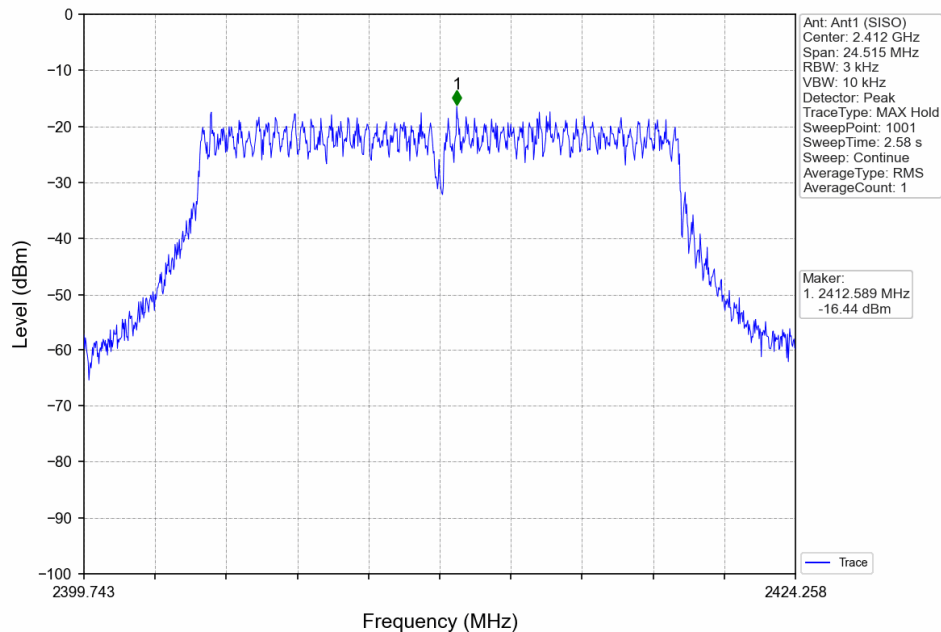
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



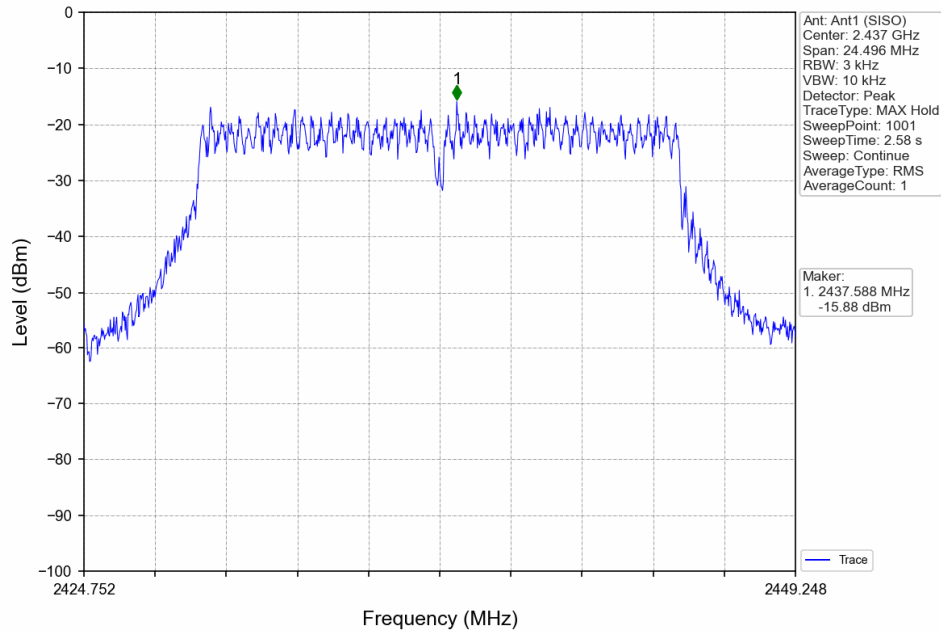
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



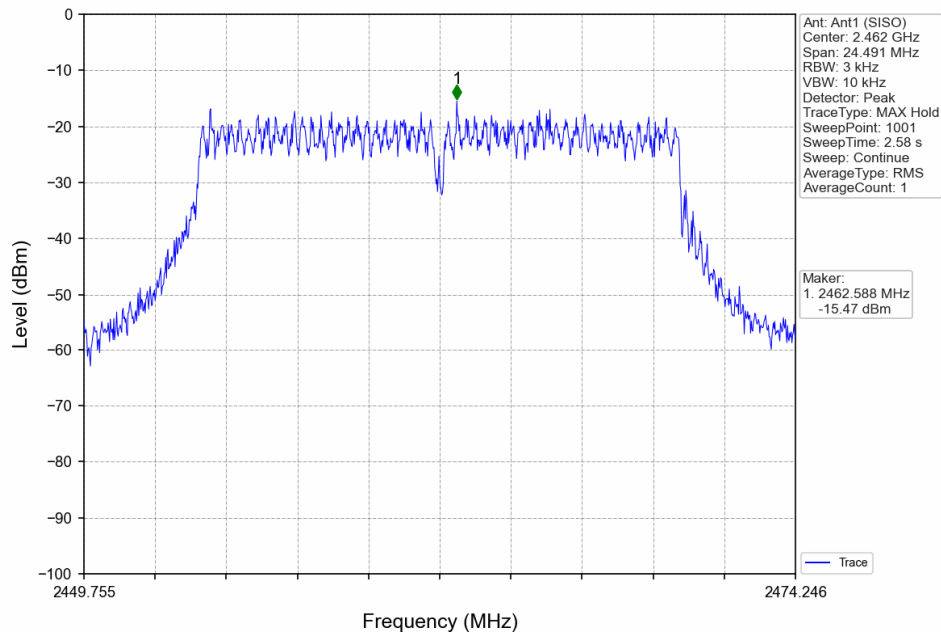
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

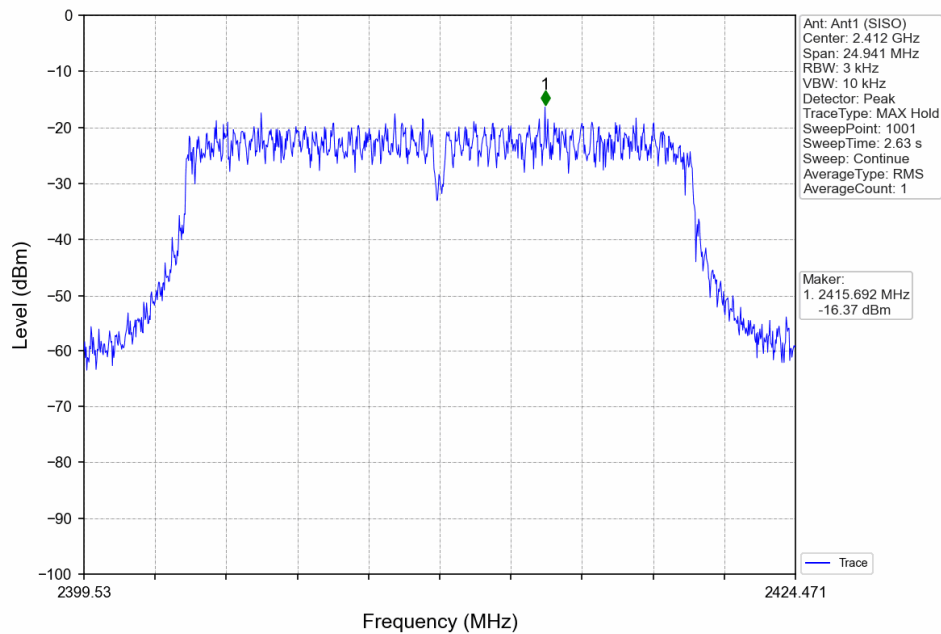


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

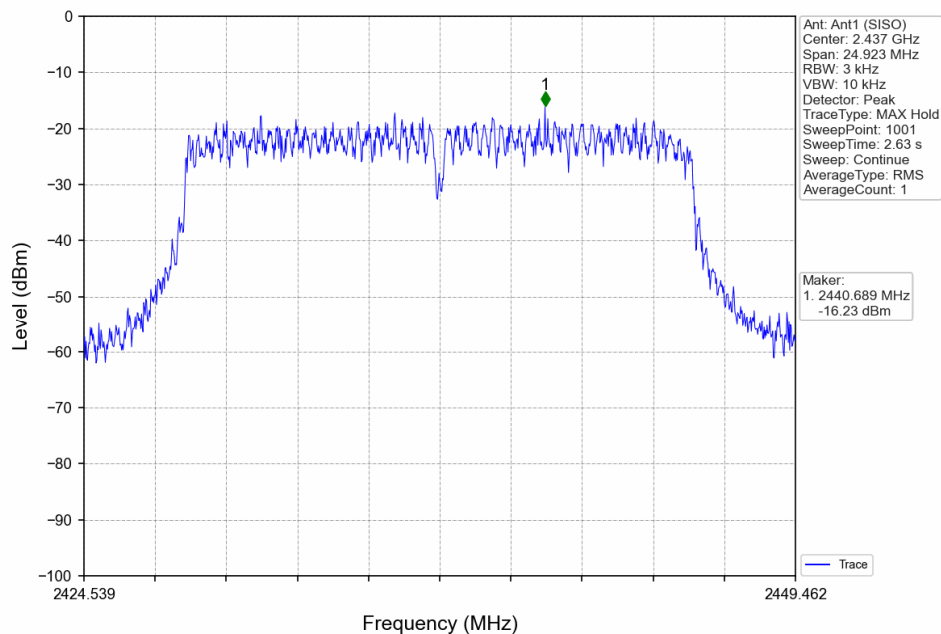


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



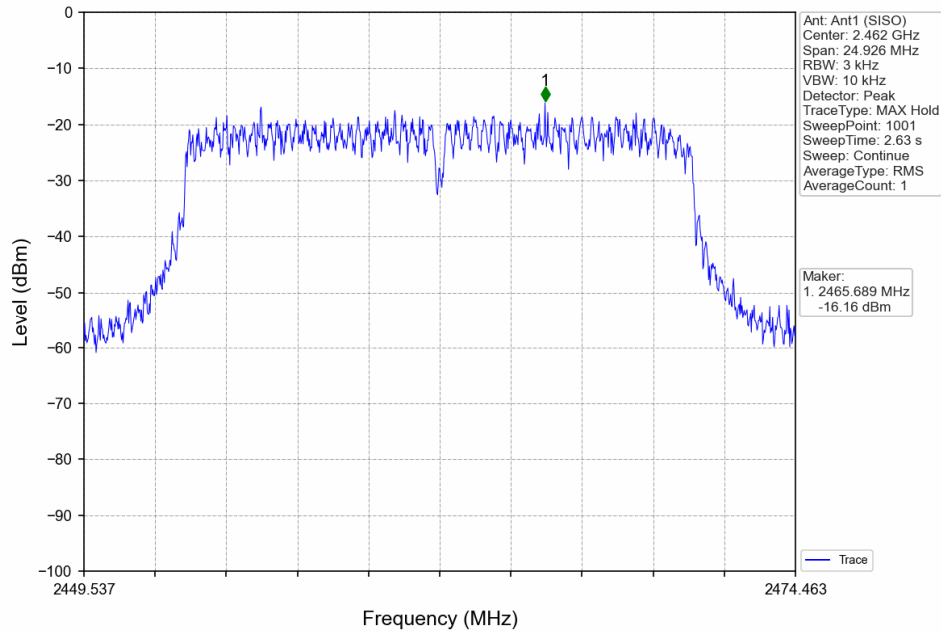
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

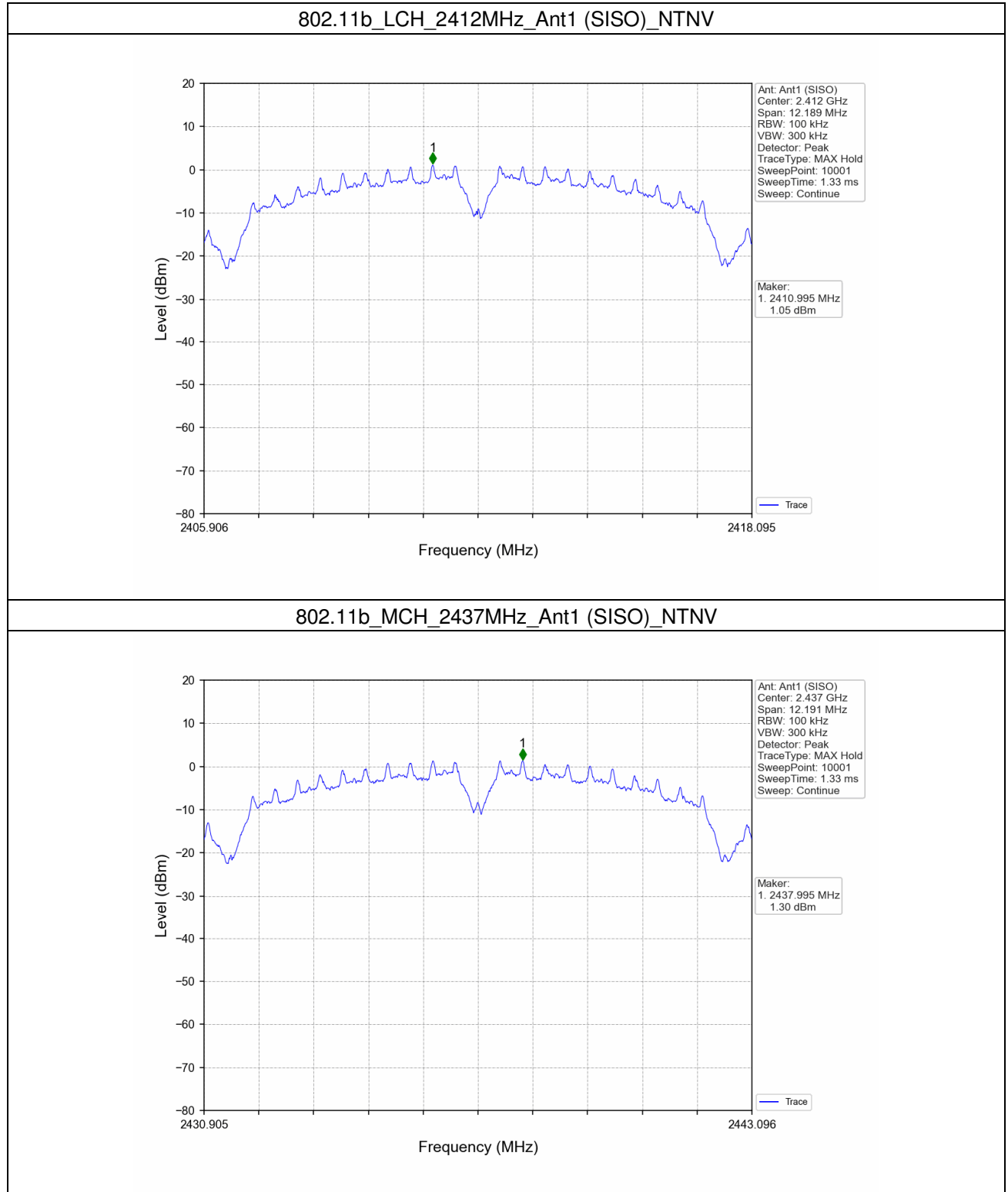
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	1.05
		2437	1	1.30
		2462	1	1.51
802.11g	SISO	2412	1	-2.58
		2437	1	-1.97
		2462	1	-1.87
802.11n (HT20)	SISO	2412	1	-2.54
		2437	1	-2.06
		2462	1	-1.90

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.

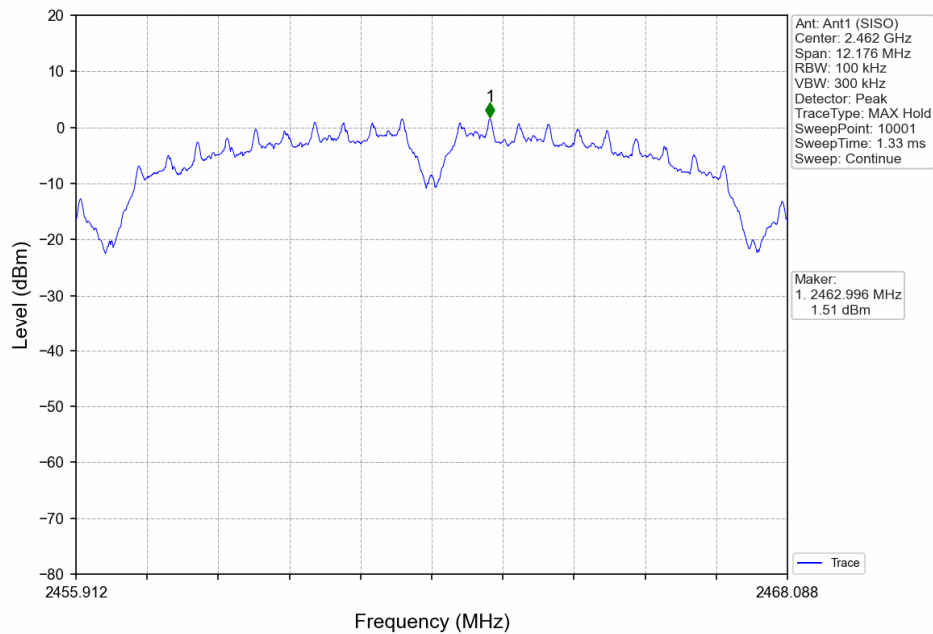
5.1.2 Test Graph



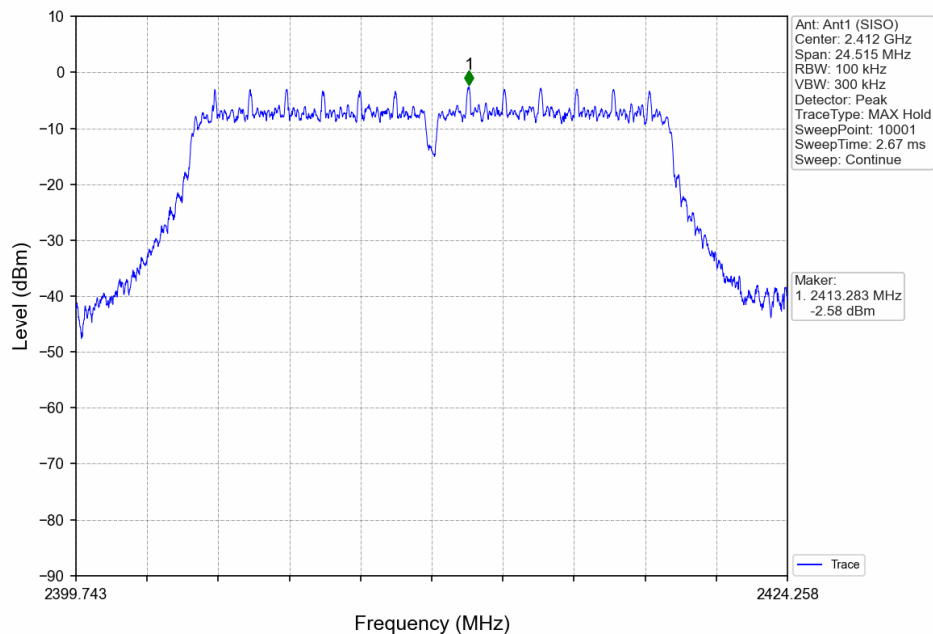
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



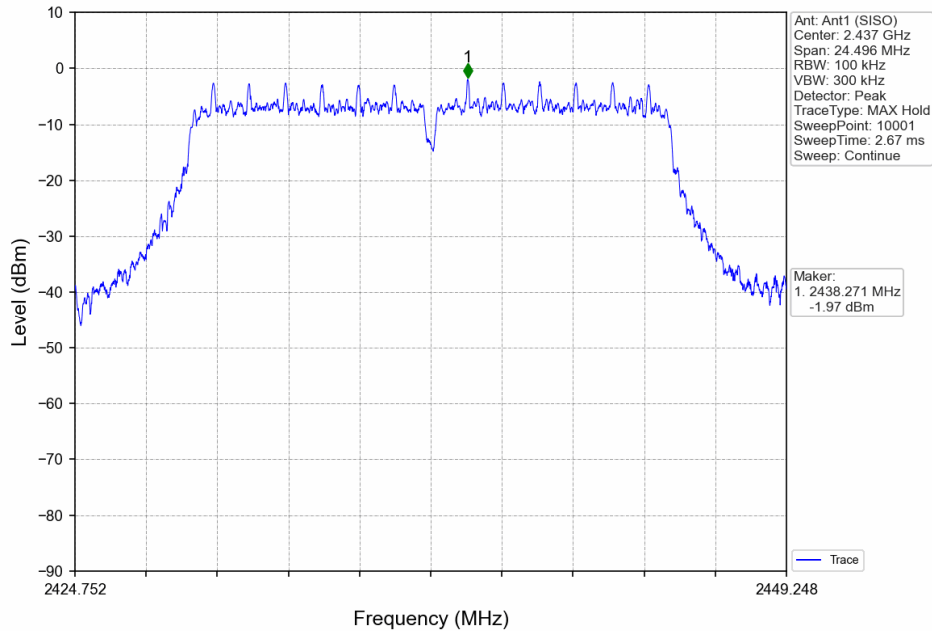
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



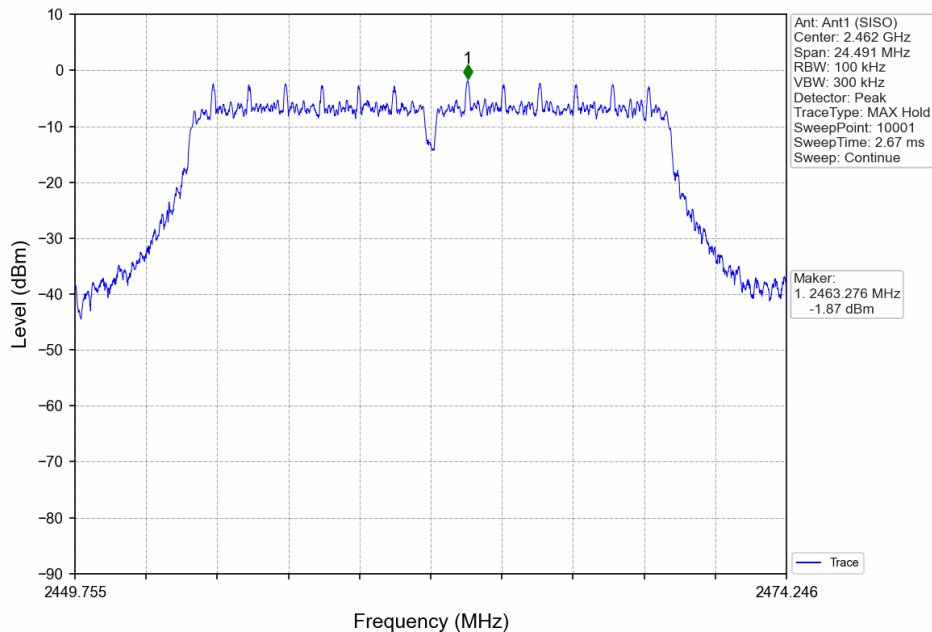
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



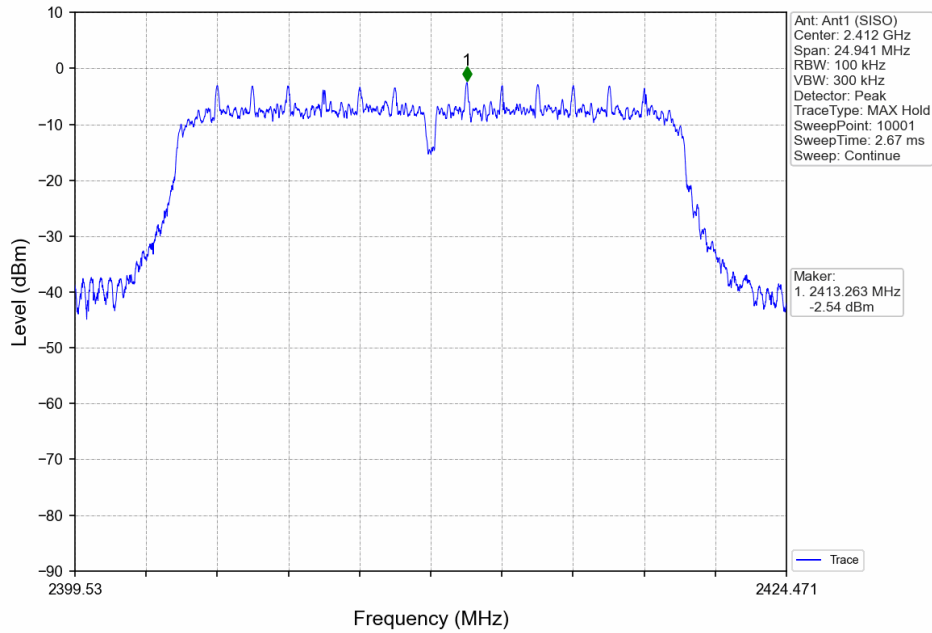
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



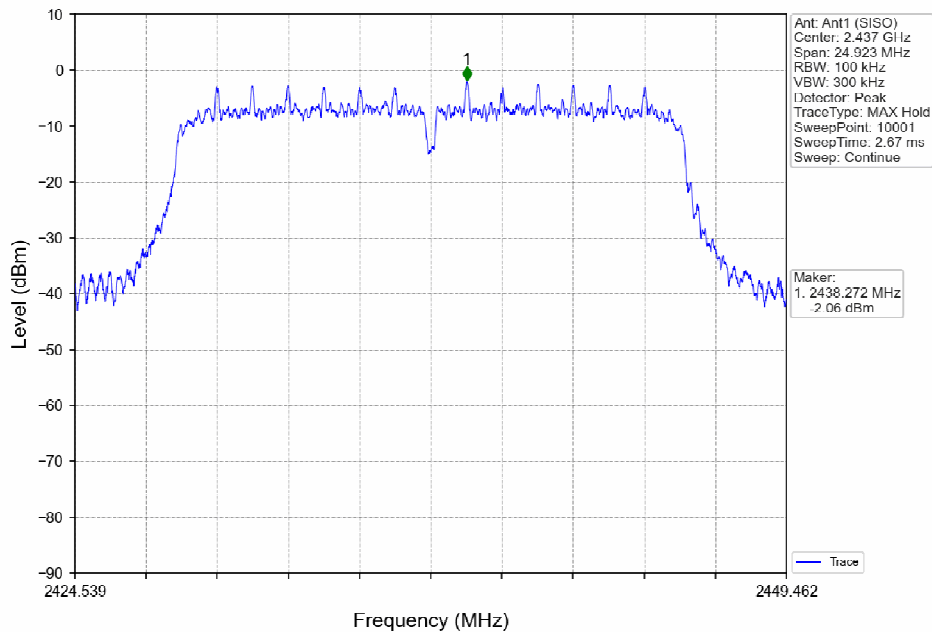
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



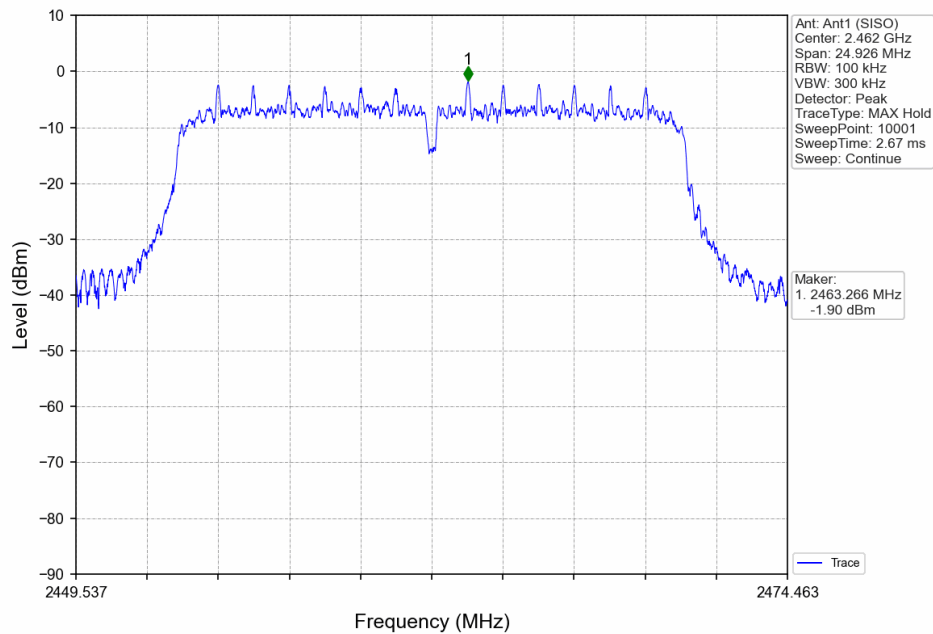
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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802.11n(HT20)_HCH_2462MHz_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	1.51	-28.49	Pass
		2437	1	1.51	-28.49	Pass
		2462	1	1.51	-28.49	Pass
802.11g	SISO	2412	1	-1.87	-31.87	Pass
		2437	1	-1.87	-31.87	Pass
		2462	1	-1.87	-31.87	Pass
802.11n (HT20)	SISO	2412	1	-1.90	-31.90	Pass
		2437	1	-1.90	-31.90	Pass
		2462	1	-1.90	-31.90	Pass

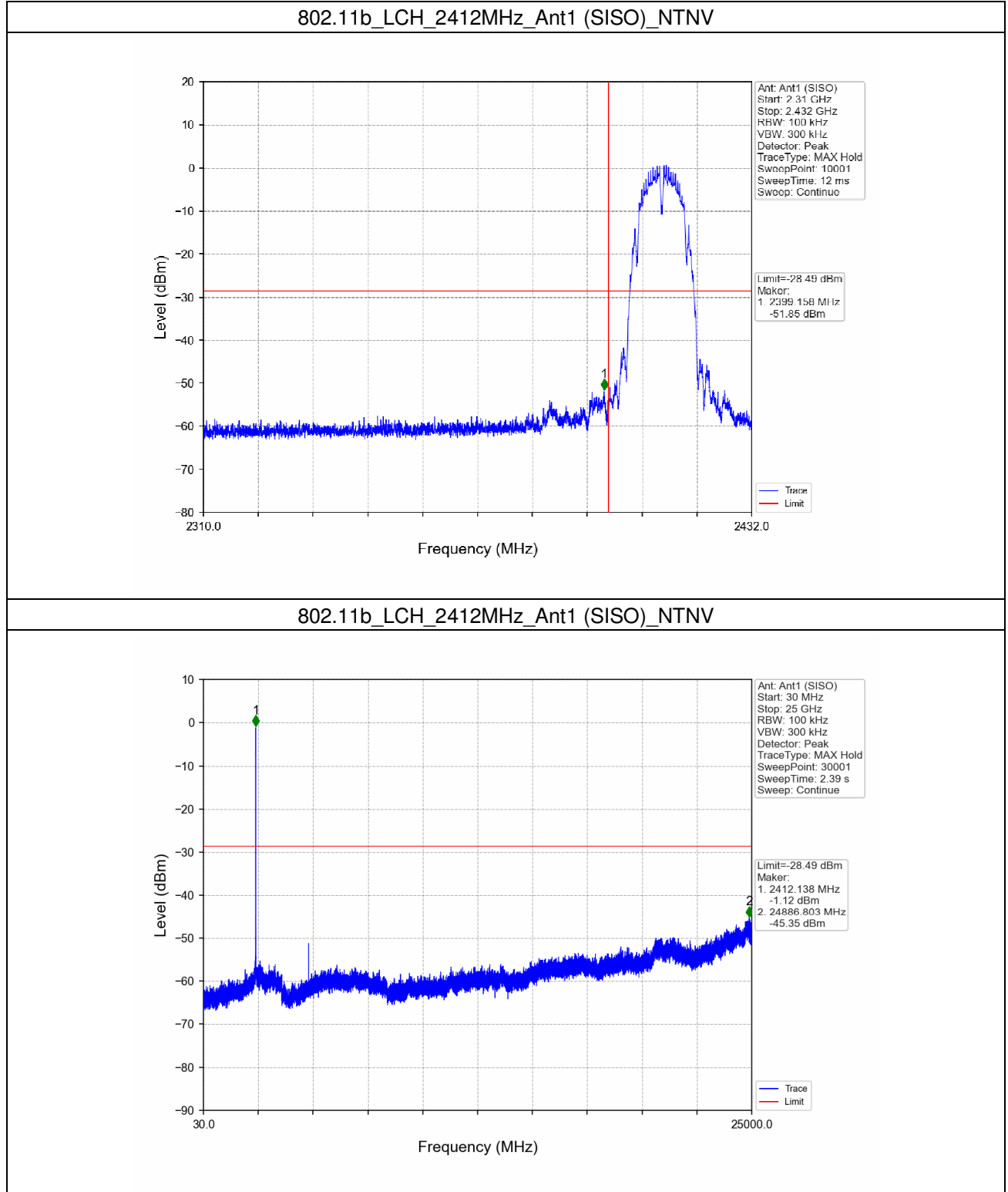
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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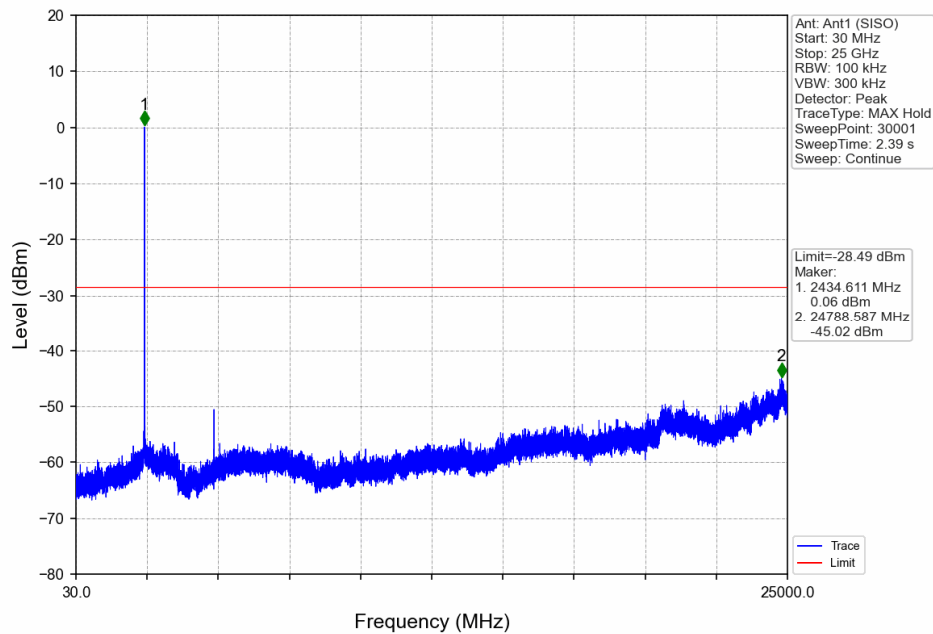
5.2.2 Test Graph



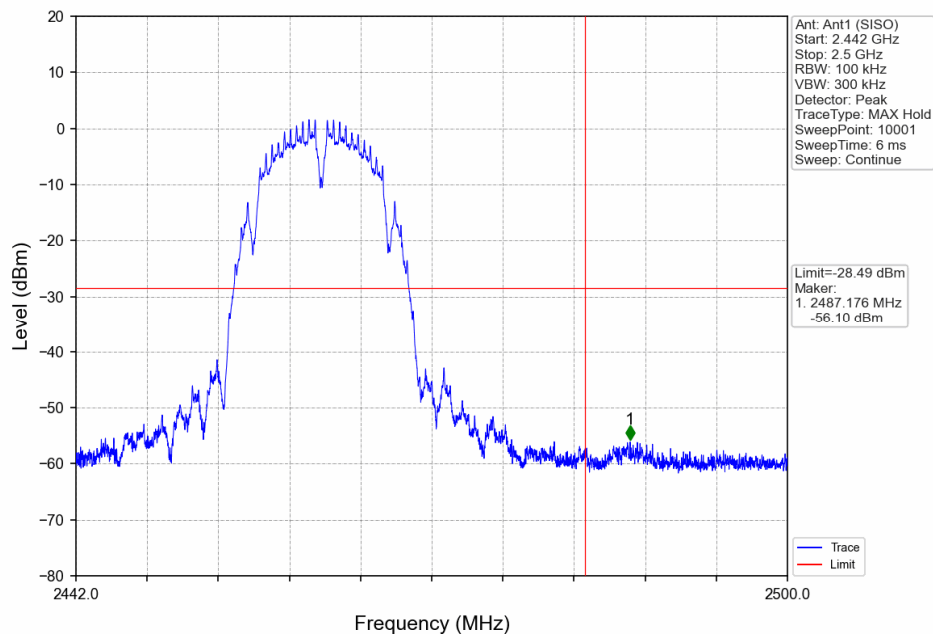
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

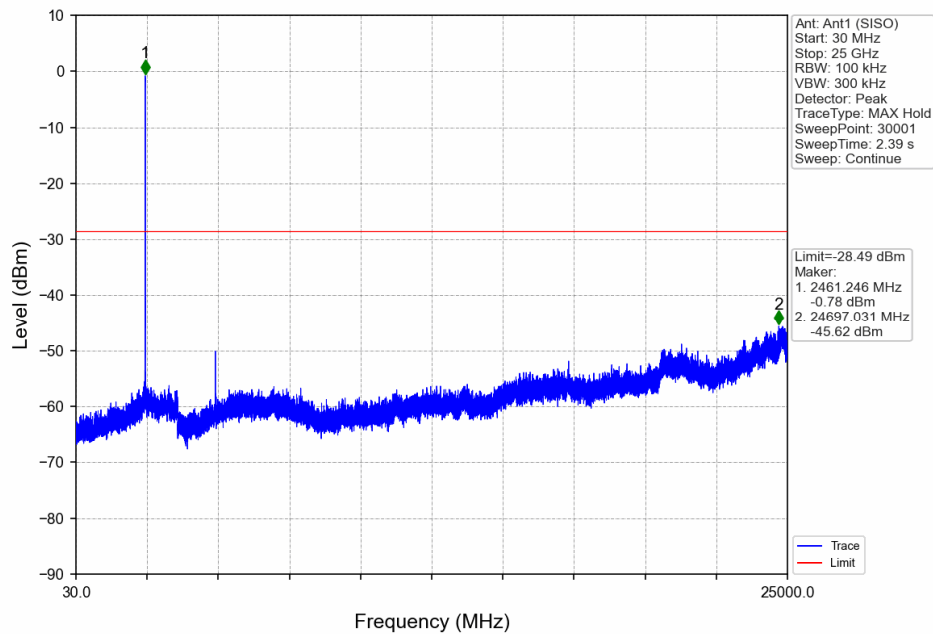


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

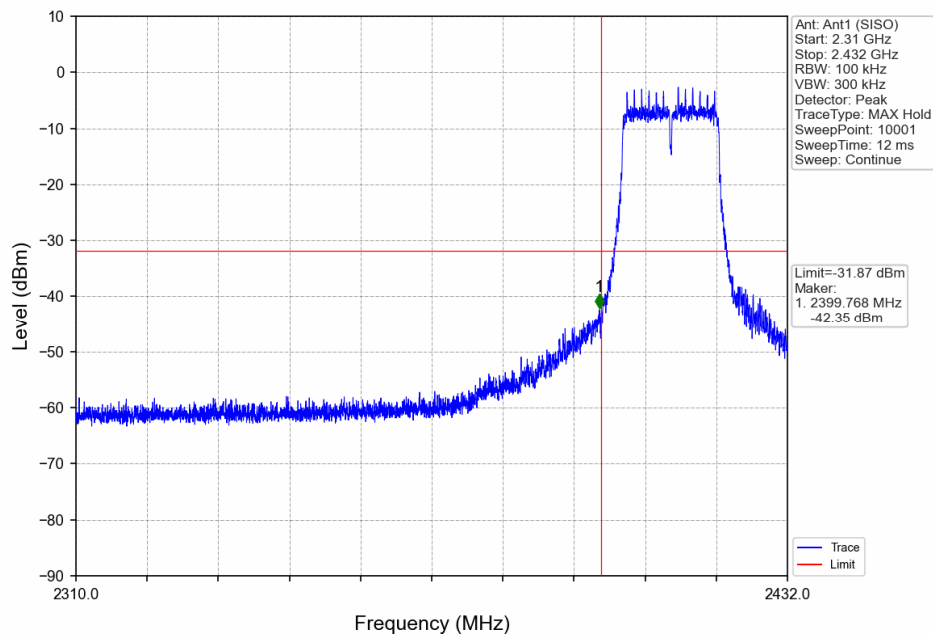


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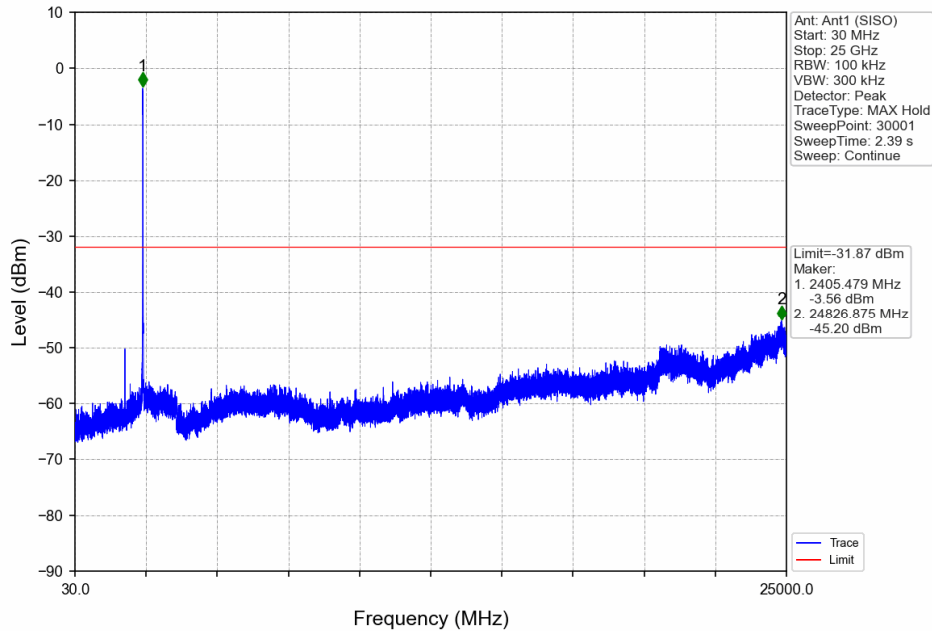
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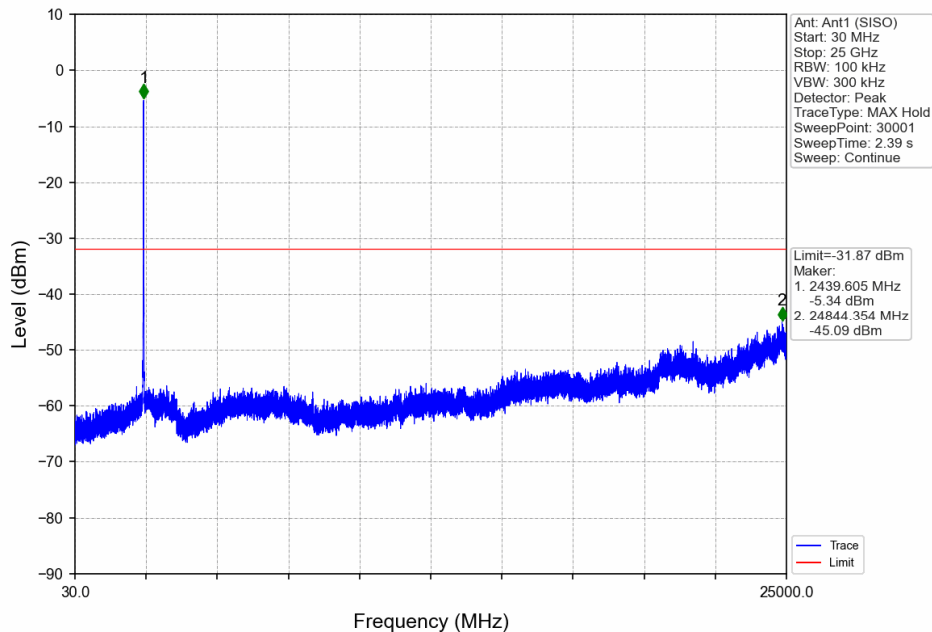
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



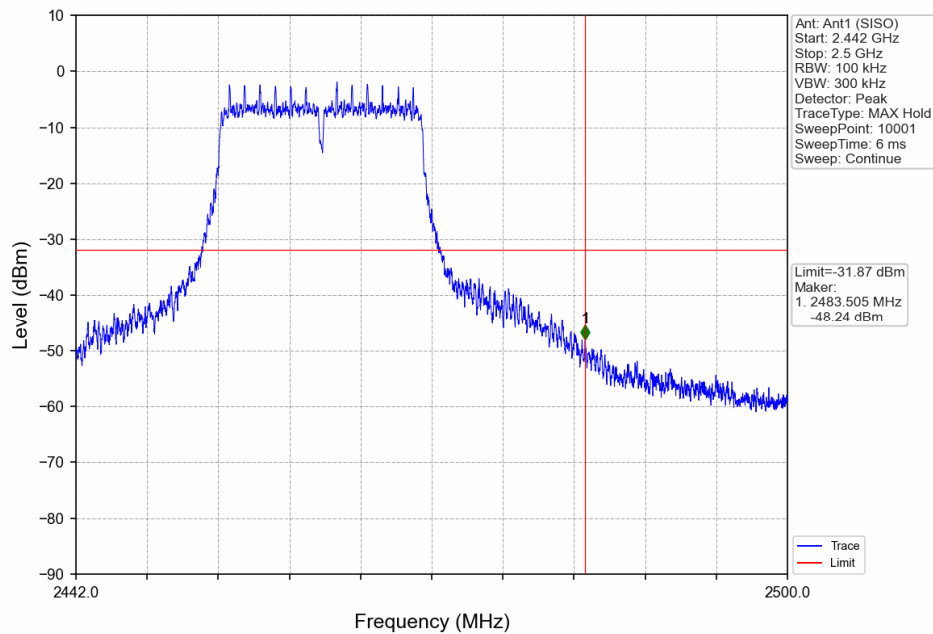
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



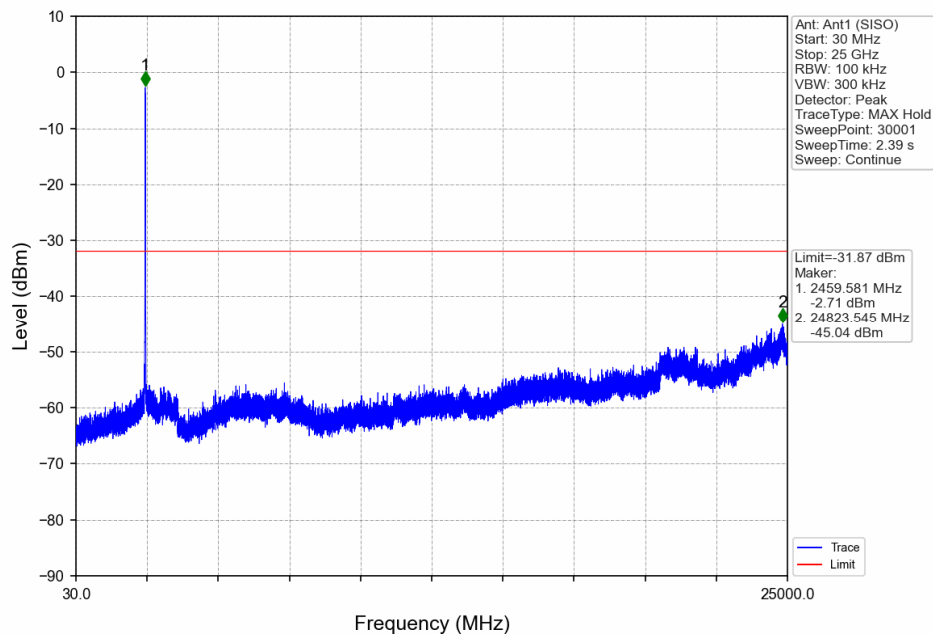
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



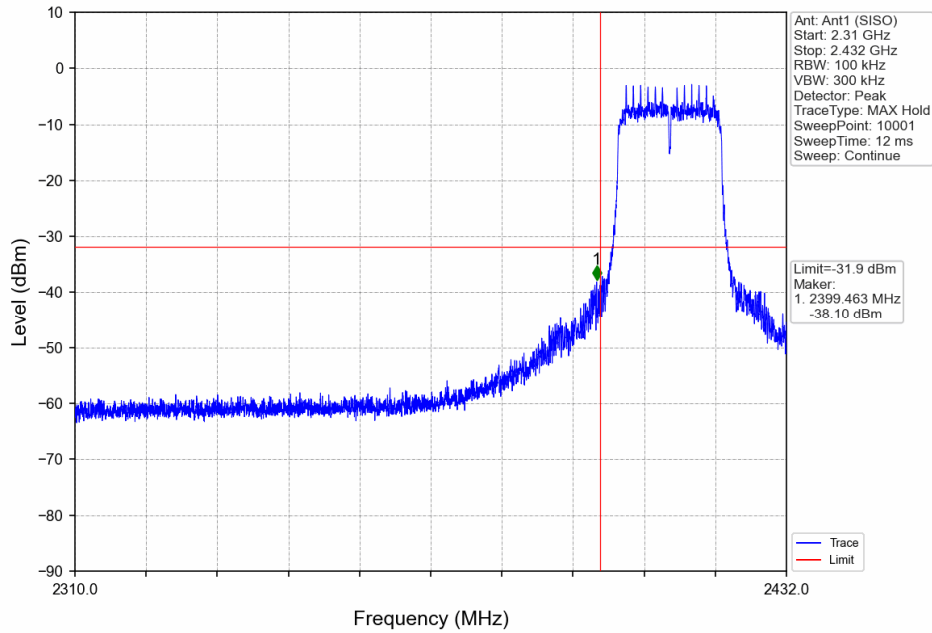
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



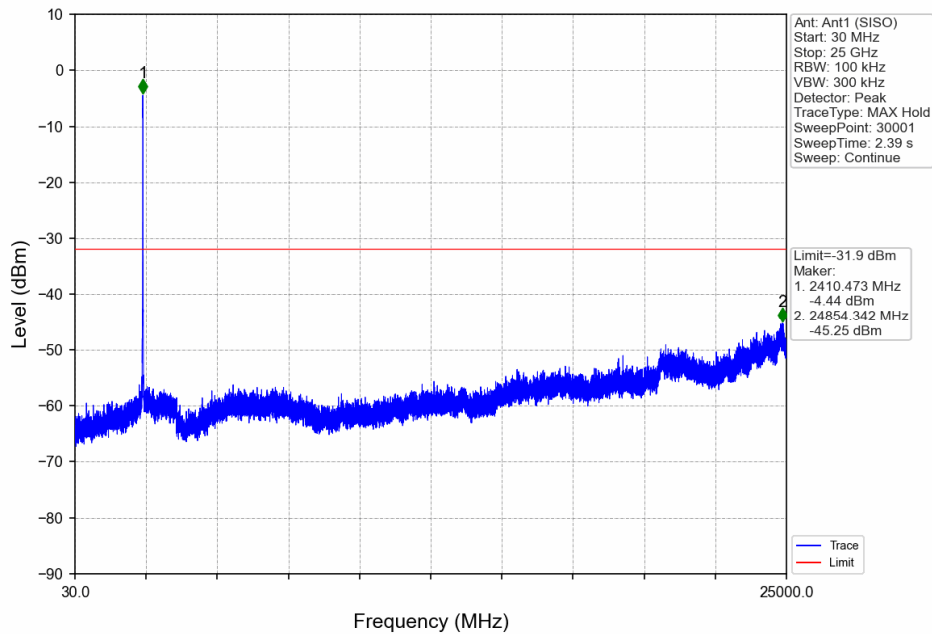
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



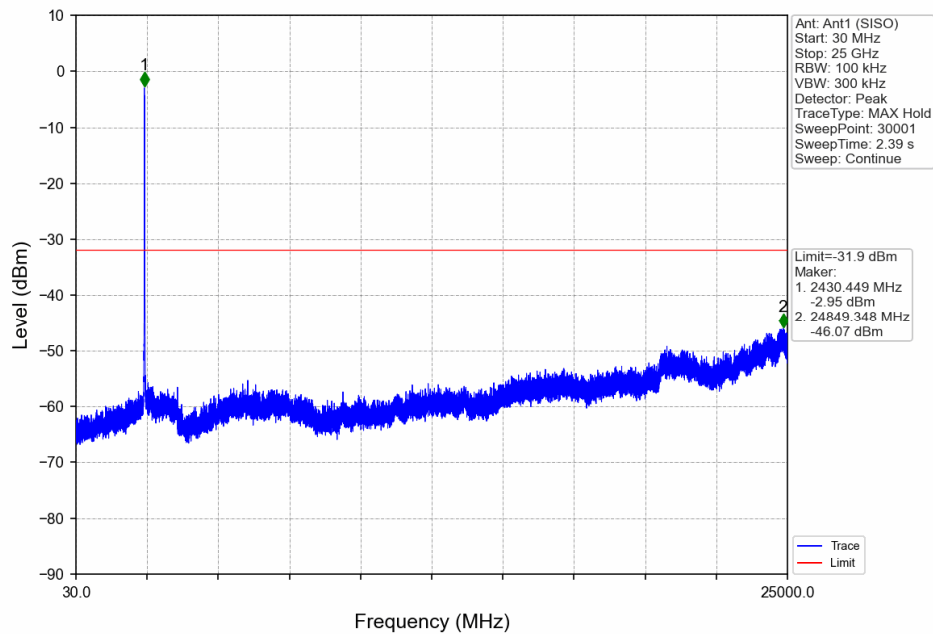
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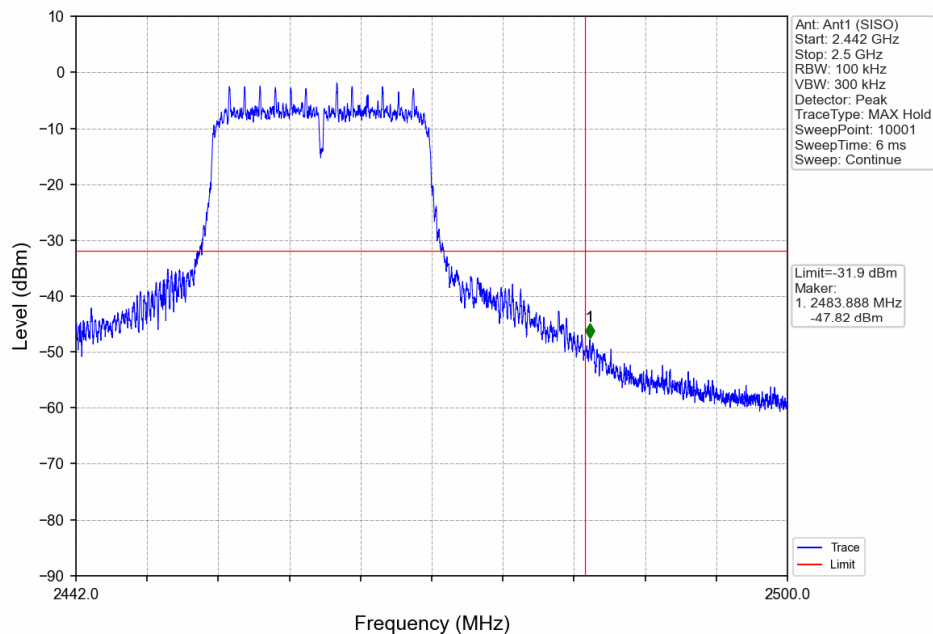
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



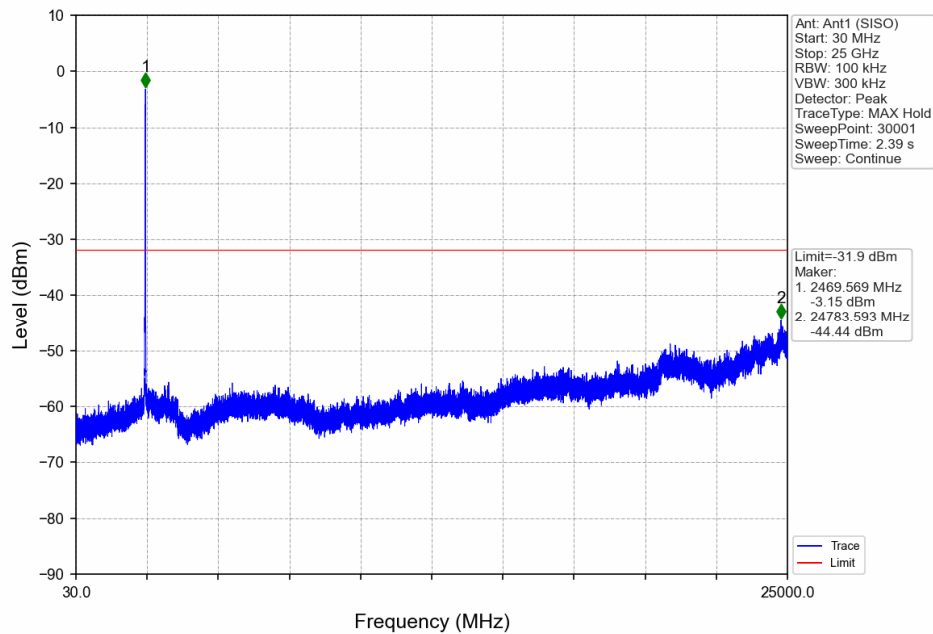
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



- End of the Report -



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