

APPENDIX A2

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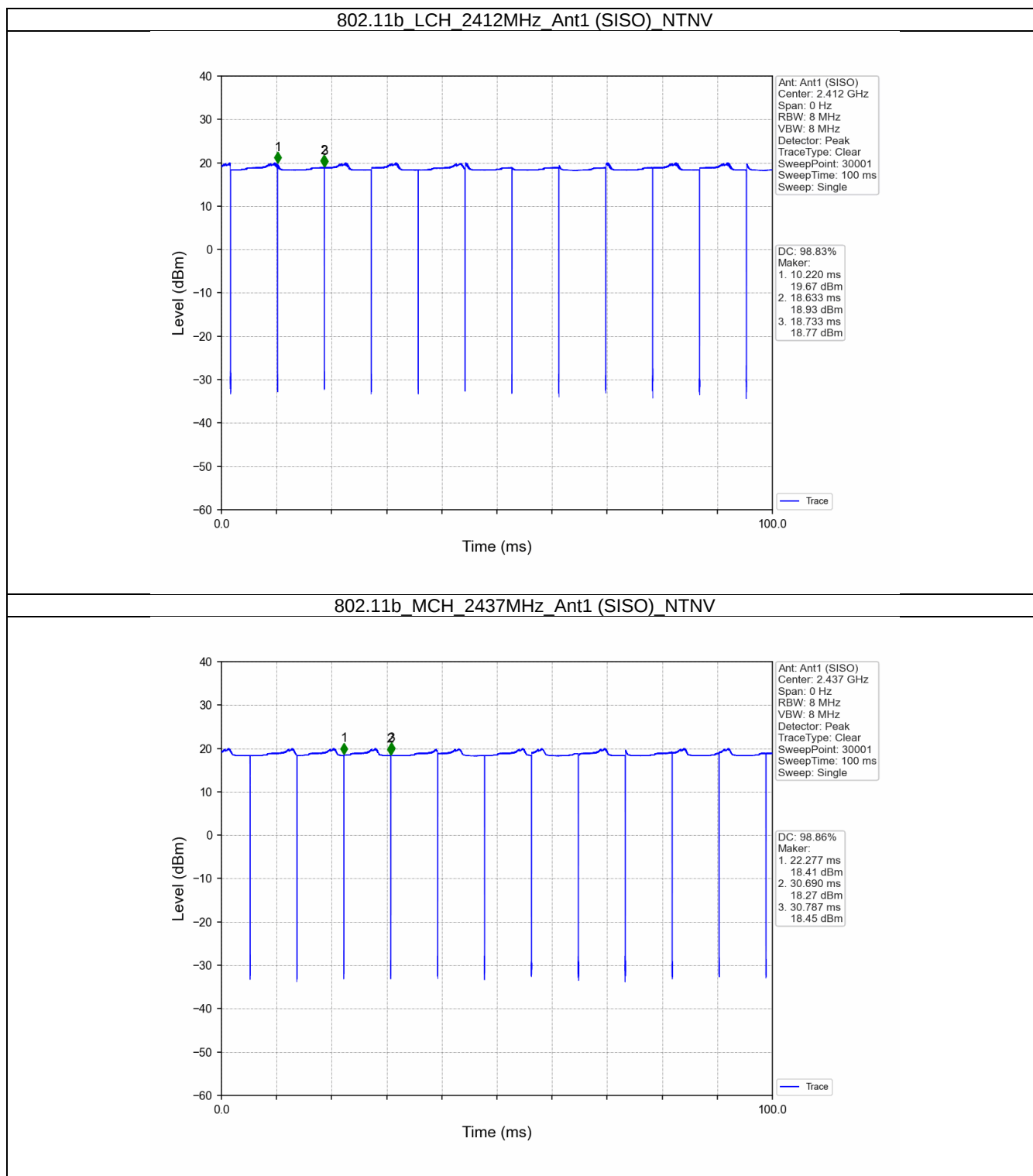
1. Duty Cycle

1.1 Ant1

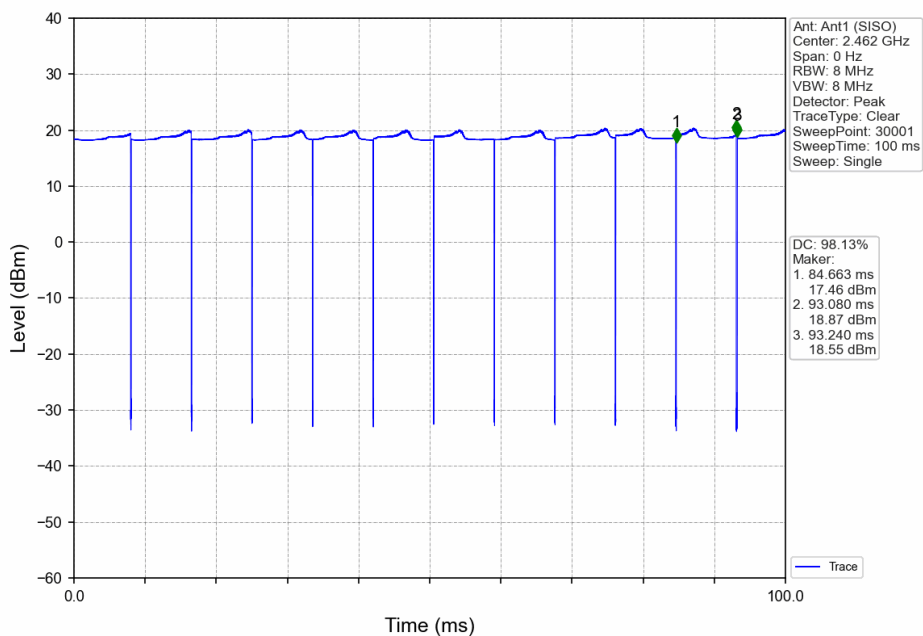
1.1.1 Test Result

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	8.413	8.513	98.83	0.05	0.04
		2437	8.413	8.510	98.86	0.05	0.00
		2462	8.417	8.577	98.13	0.08	0.73
802.11g	SISO	2412	1.396	1.499	93.13	0.31	0.03
		2437	1.396	1.499	93.13	0.31	0.00
		2462	1.396	1.498	93.19	0.31	0.03
802.11n (HT20)	SISO	2412	1.308	1.411	92.70	0.33	0.03
		2437	1.308	1.411	92.70	0.33	0.03
		2462	1.307	1.410	92.70	0.33	0.03
BLE-1M	SISO	2402	2.133	2.500	85.32	0.69	0.03
		2440	2.134	2.500	85.36	0.69	0.03
		2480	2.133	2.500	85.32	0.69	0.03

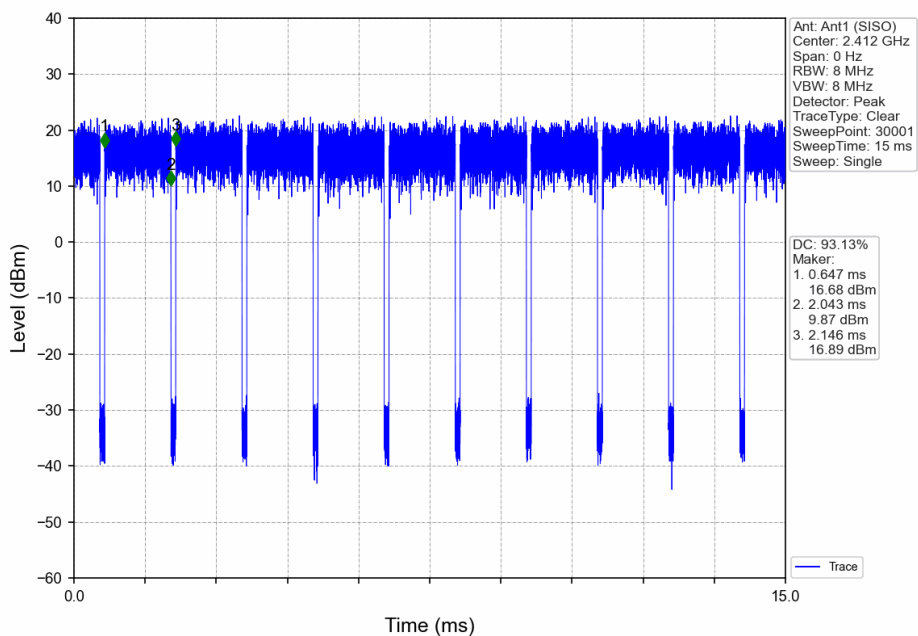
1.1.2 Test Graph



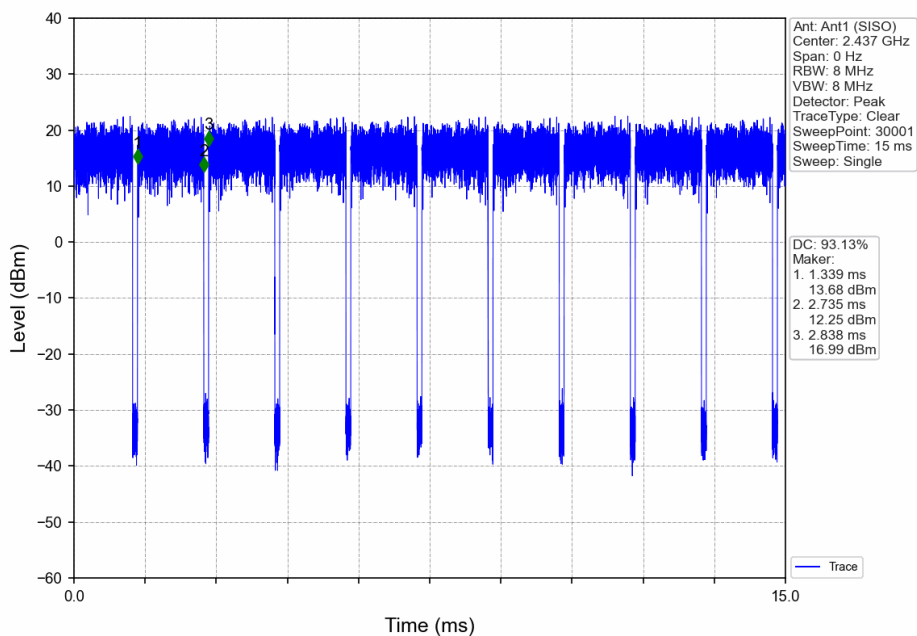
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



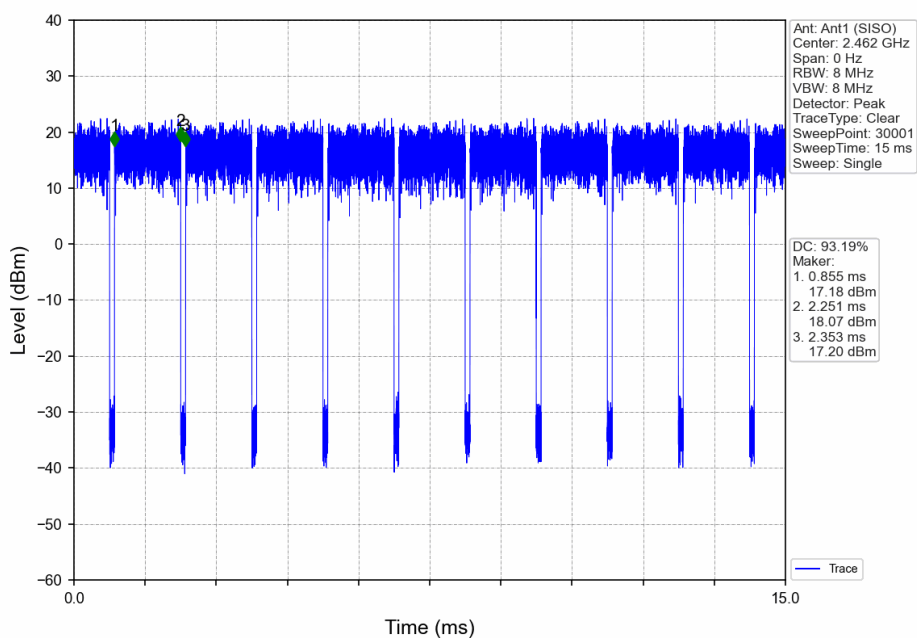
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



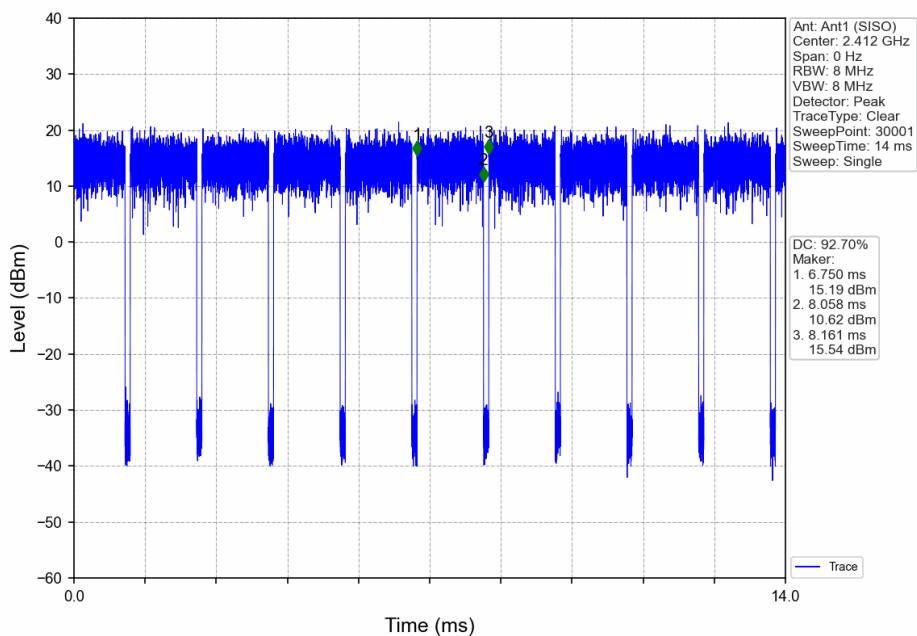
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



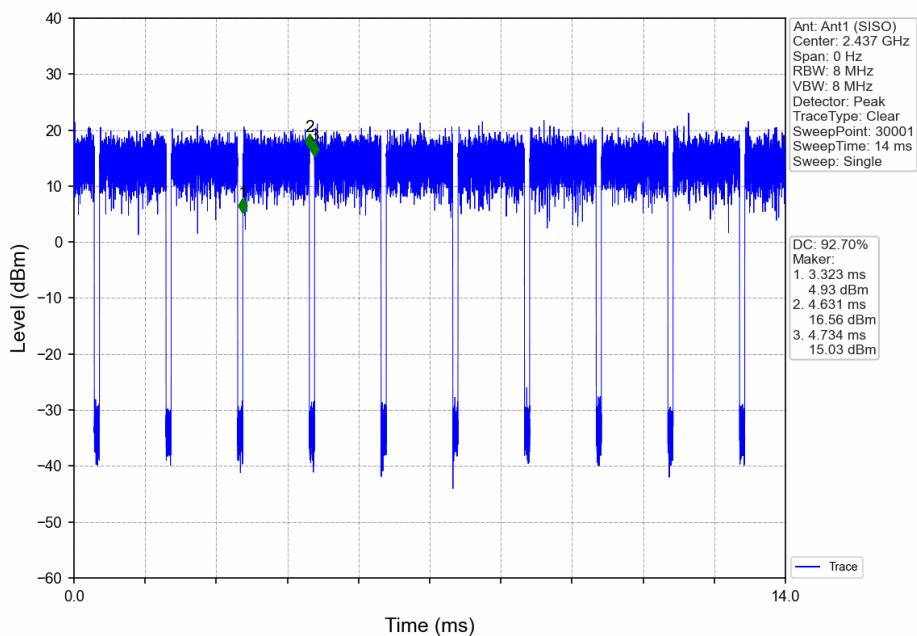
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



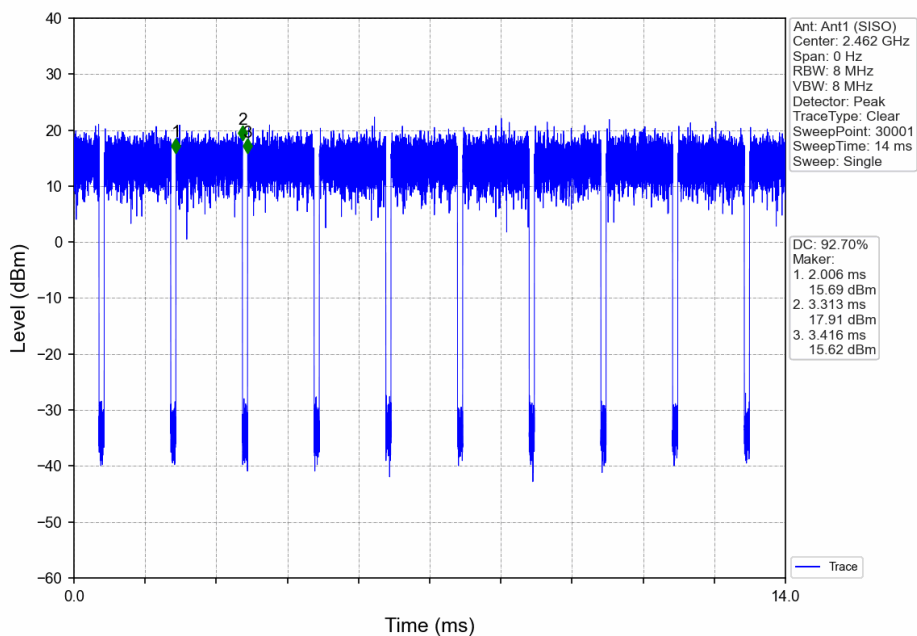
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



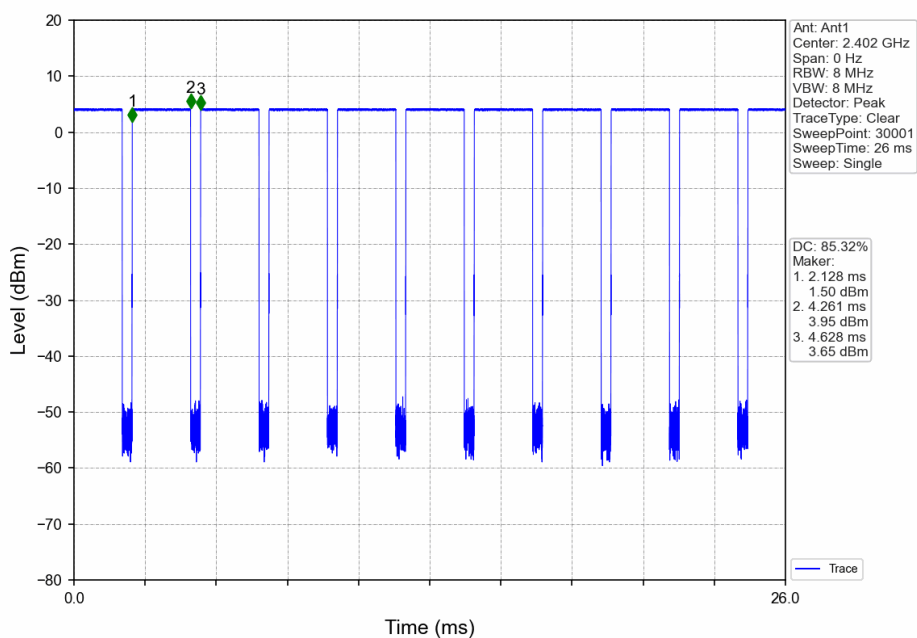
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



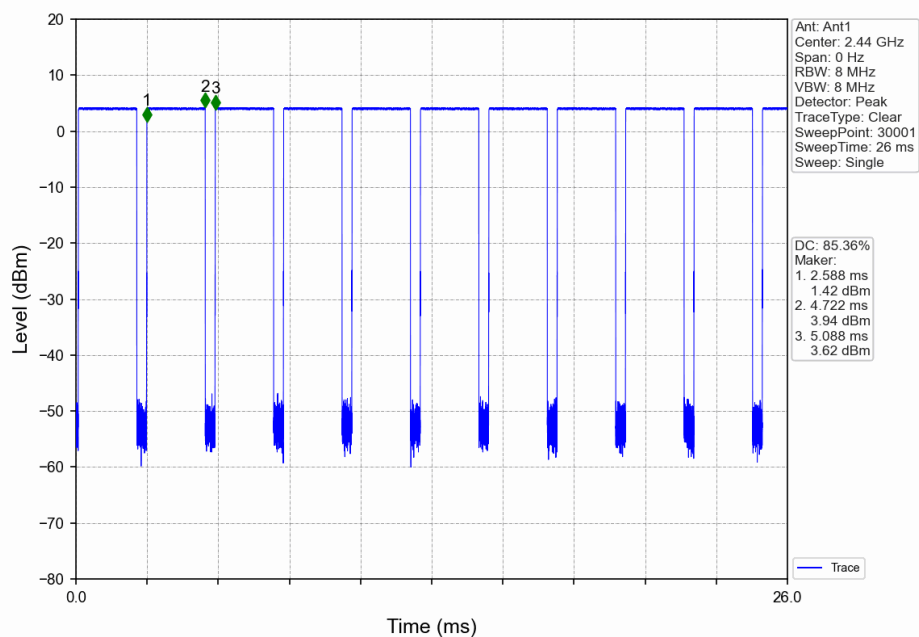
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



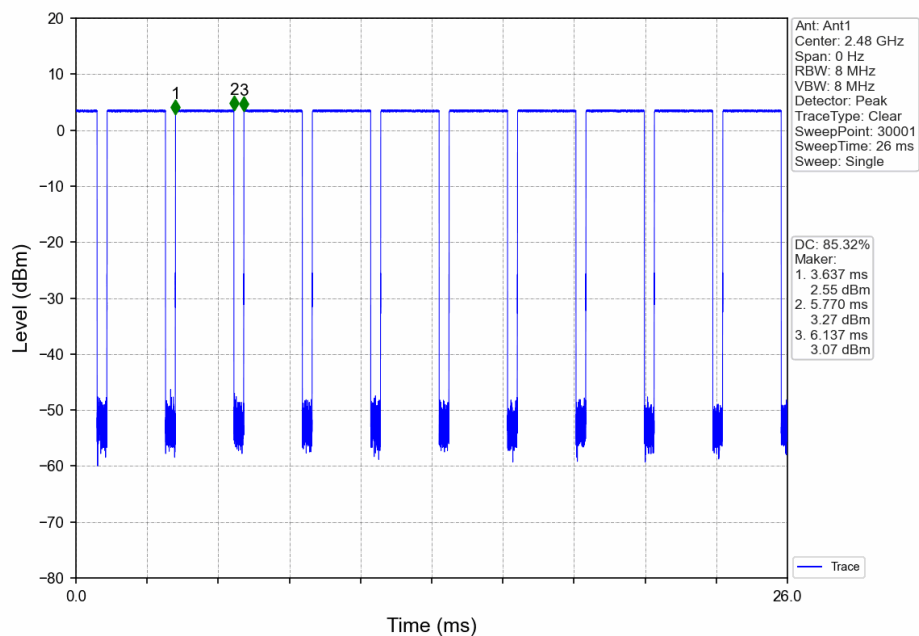
BLE-1M_LCH_2402MHz_DataRate= Ant1_NTNV



BLE-1M_MCH_2440MHz_DataRate= Ant1_NTNV



BLE-1M_HCH_2480MHz_DataRate= Ant1_NTNV



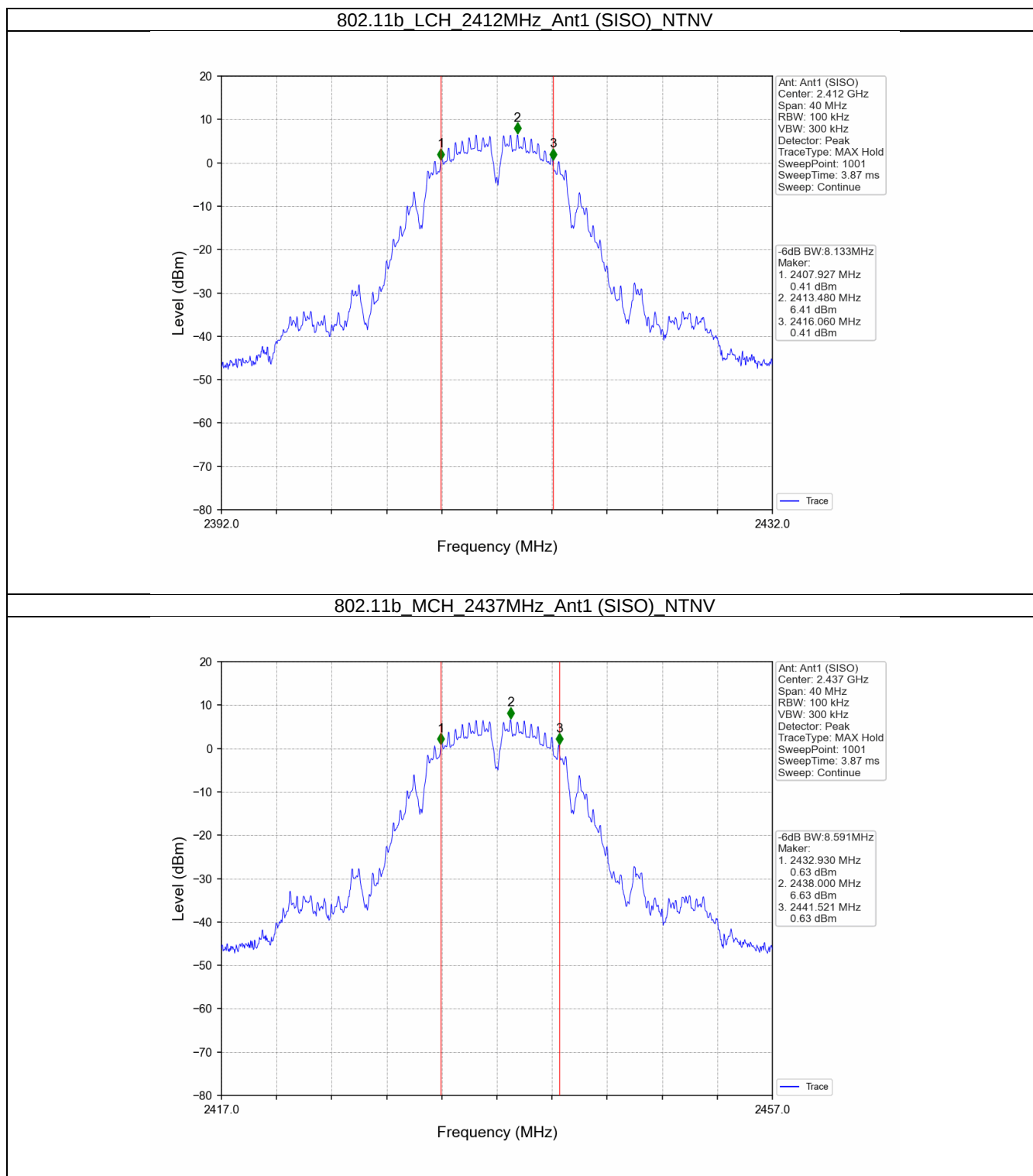
2. Bandwidth

2.1 6dB BW

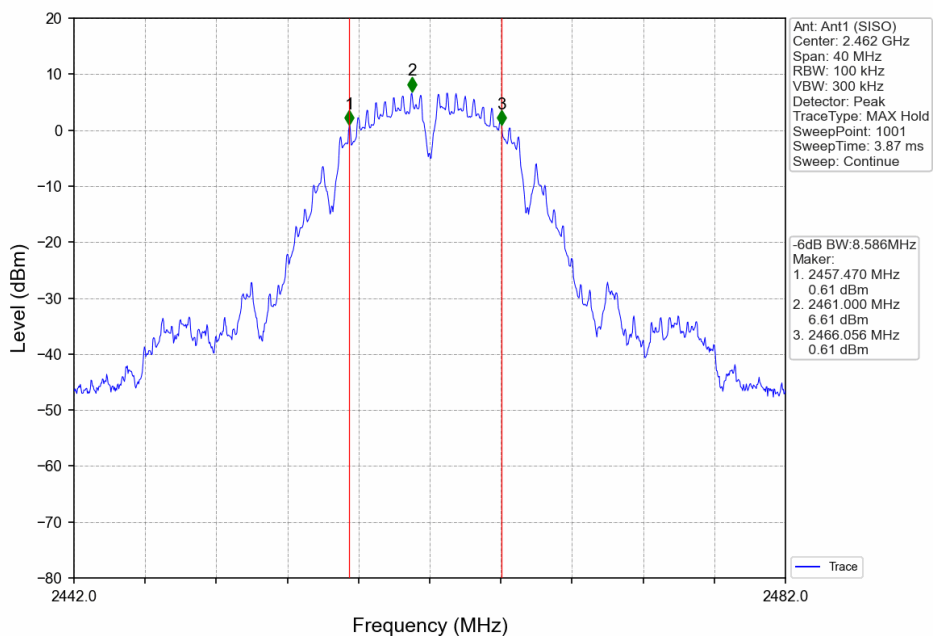
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.133	≥ 0.5	Pass
		2437	1	8.591	≥ 0.5	Pass
		2462	1	8.586	≥ 0.5	Pass
802.11g	SISO	2412	1	16.292	≥ 0.5	Pass
		2437	1	16.084	≥ 0.5	Pass
		2462	1	15.814	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.096	≥ 0.5	Pass
		2437	1	17.112	≥ 0.5	Pass
		2462	1	16.027	≥ 0.5	Pass
BLE-1M	SISO	2402	1	0.671	≥ 0.5	Pass
		2440	1	0.673	≥ 0.5	Pass
		2480	1	0.673	≥ 0.5	Pass

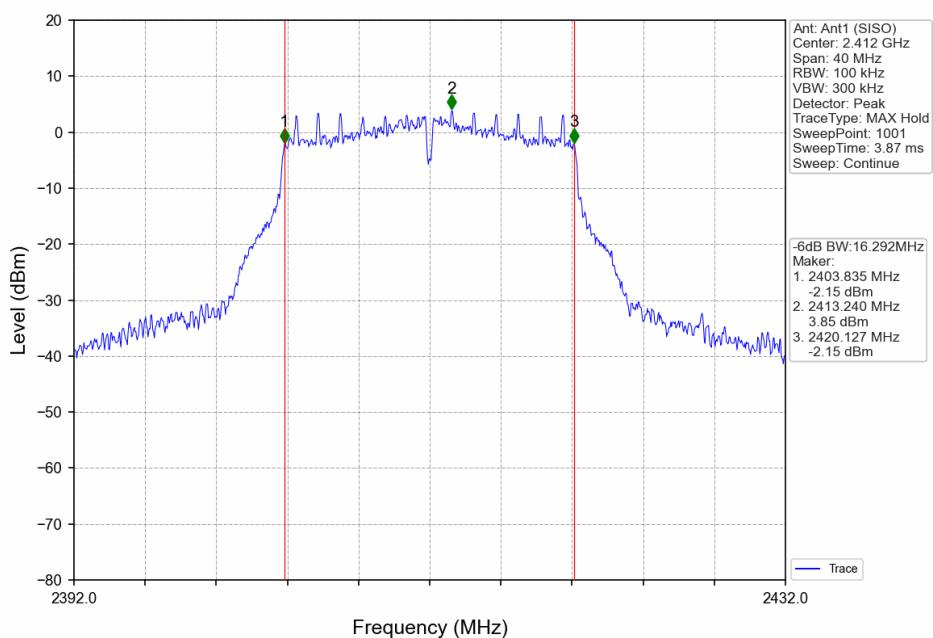
2.1.2 Test Graph



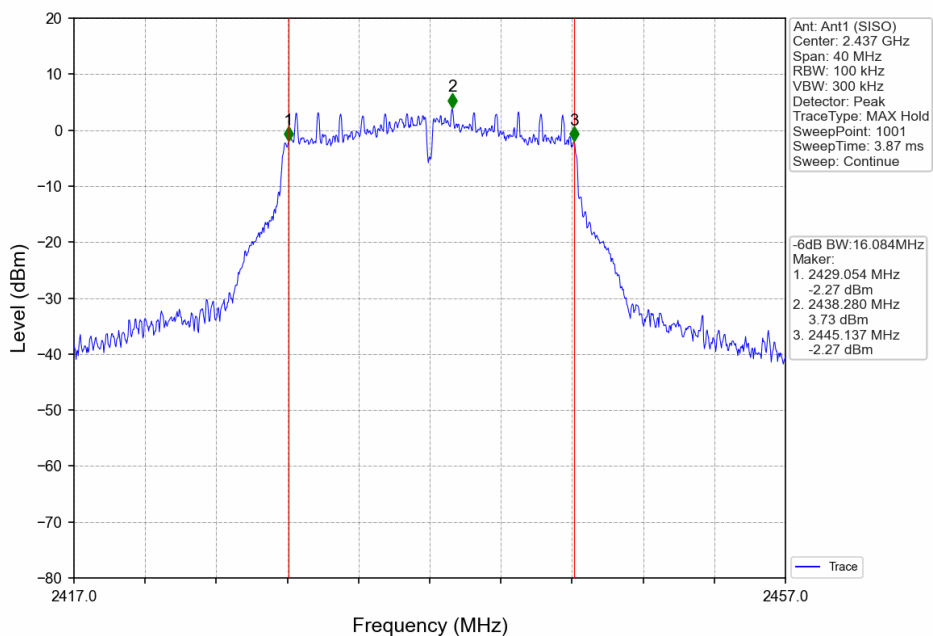
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



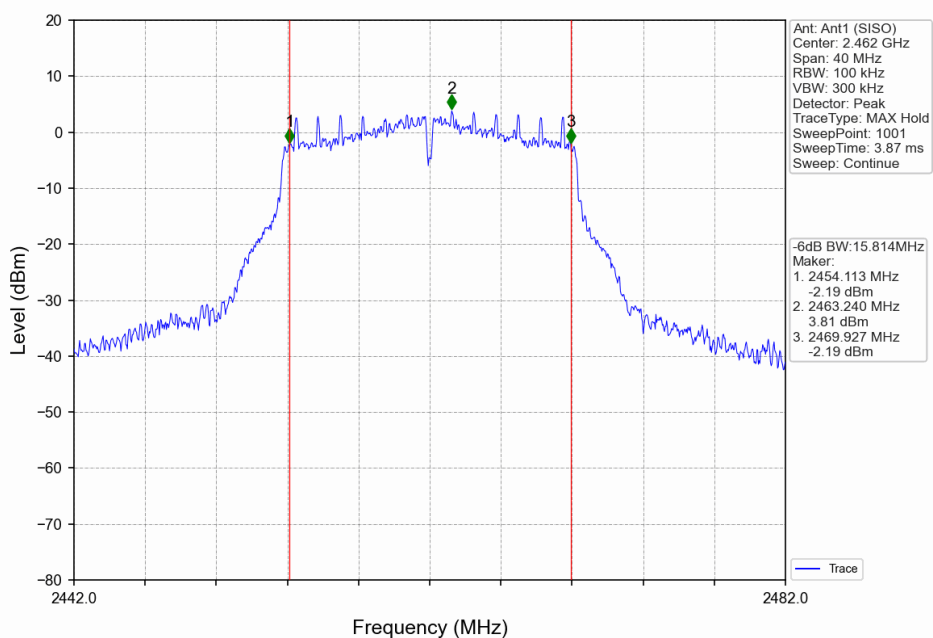
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



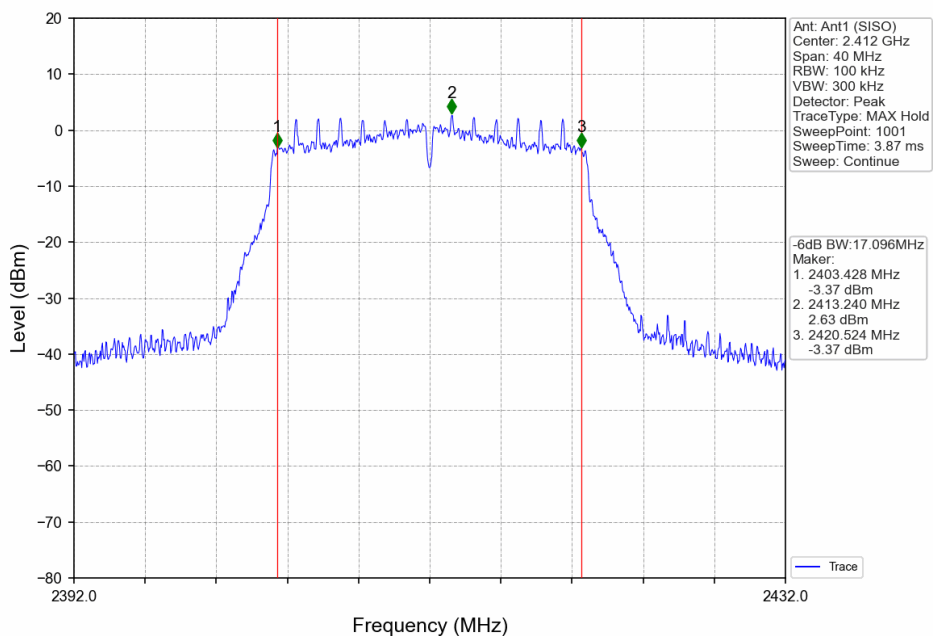
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



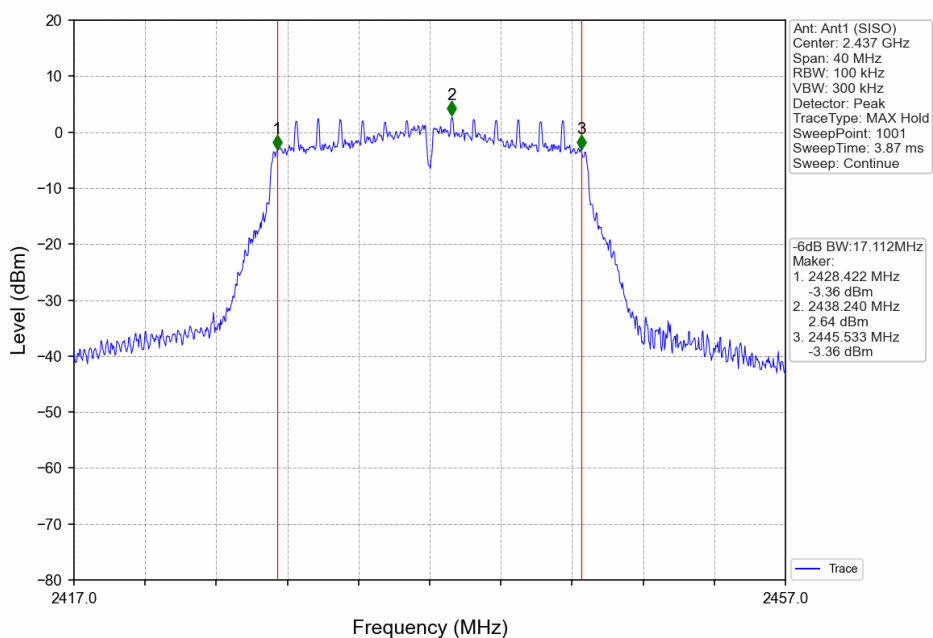
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



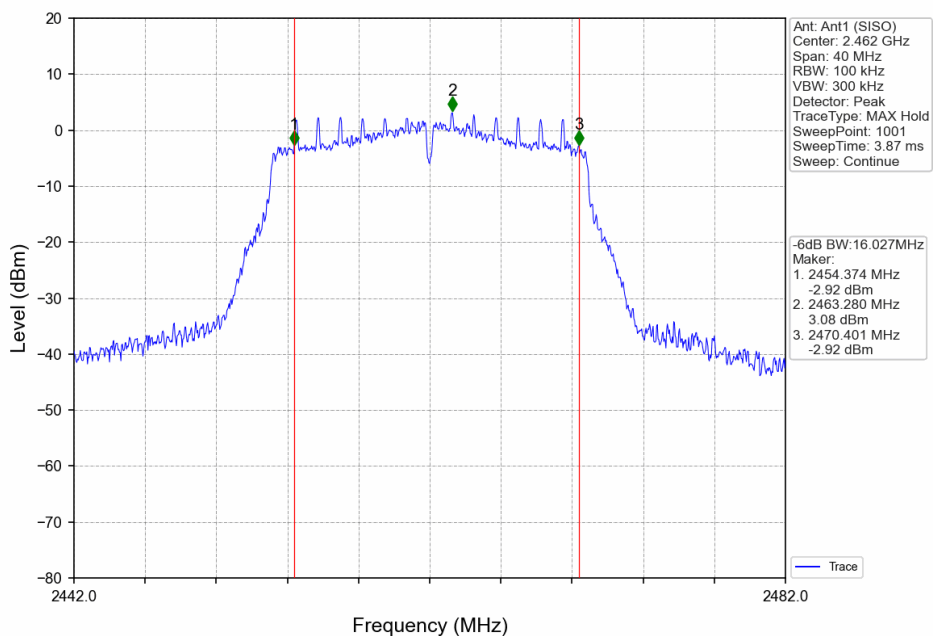
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



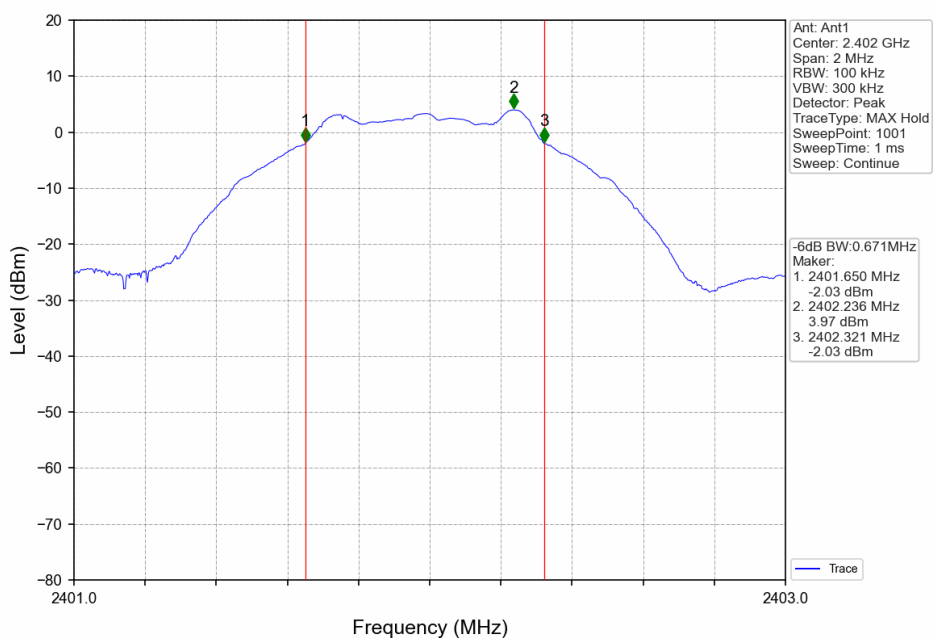
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



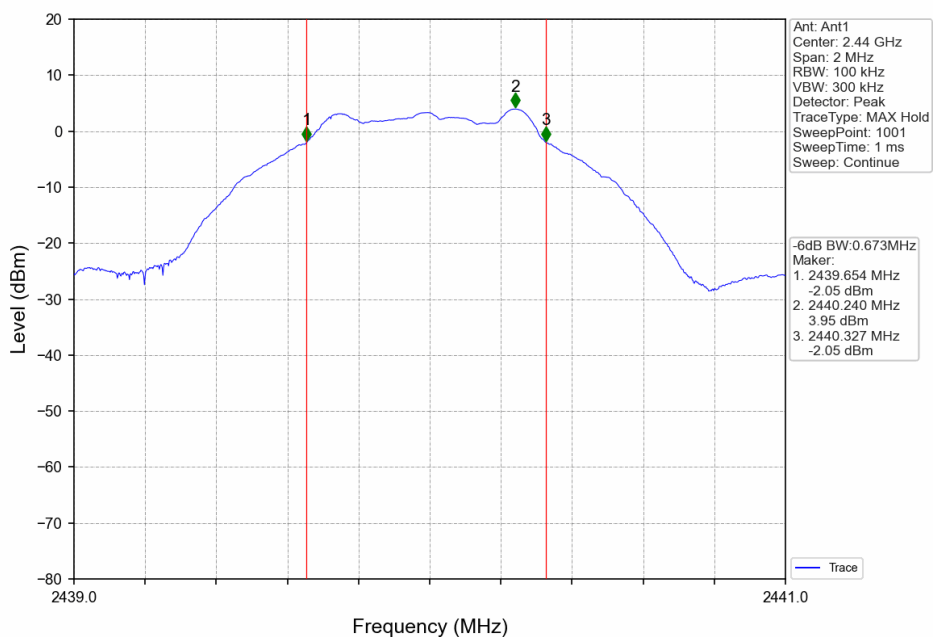
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



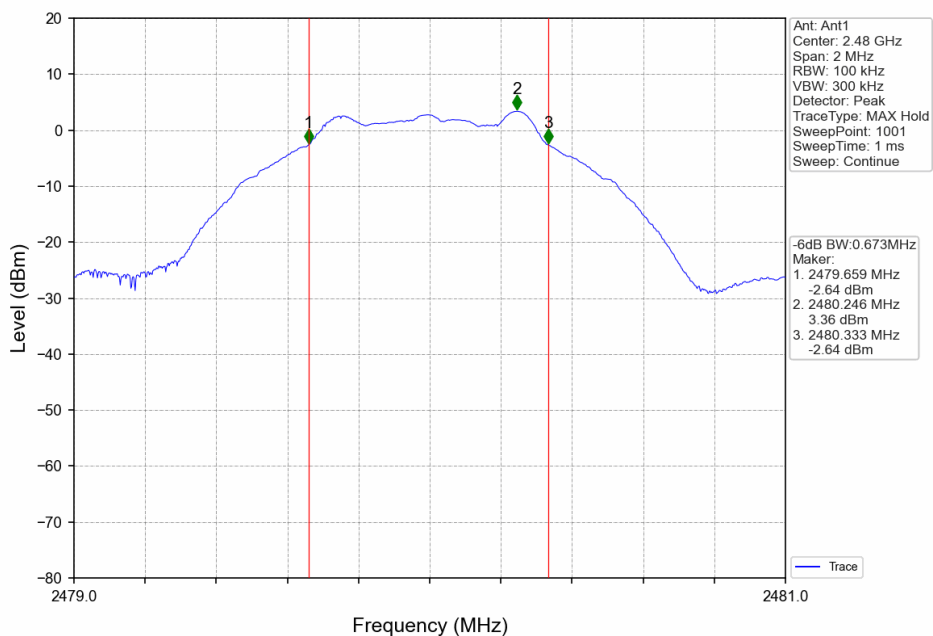
BLE-1M_LCH_2402MHz_DataRate= Ant1_NTNV



BLE-1M_MCH_2440MHz_DataRate= Ant1_NTNV



BLE-1M_HCH_2480MHz_DataRate= Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	17.83	<=30	Pass
		2437	17.76	<=30	Pass
		2462	17.66	<=30	Pass
802.11g	SISO	2412	23.44	<=30	Pass
		2437	23.78	<=30	Pass
		2462	23.75	<=30	Pass
802.11n (HT20)	SISO	2412	23.57	<=30	Pass
		2437	23.95	<=30	Pass
		2462	22.83	<=30	Pass
BLE-1M	SISO	2402	4.09	<=30	Pass
		2440	3.88	<=30	Pass
		2480	3.20	<=30	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

3.1.2 Test Result

Mode	TX Type	Frequency (MHz)	Maximum AVG Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	14.86	/	Pass
		2437	14.78	/	Pass
		2462	14.75	/	Pass
802.11g	SISO	2412	13.22	/	Pass
		2437	14.34	/	Pass
		2462	14.41	/	Pass
802.11n (HT20)	SISO	2412	12.98	/	Pass
		2437	12.97	/	Pass
		2462	11.62	/	Pass
BLE-1M	SISO	2402	3.34	/	Pass
		2440	3.23	/	Pass
		2480	2.55	/	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

4. Maximum Power Spectral Density

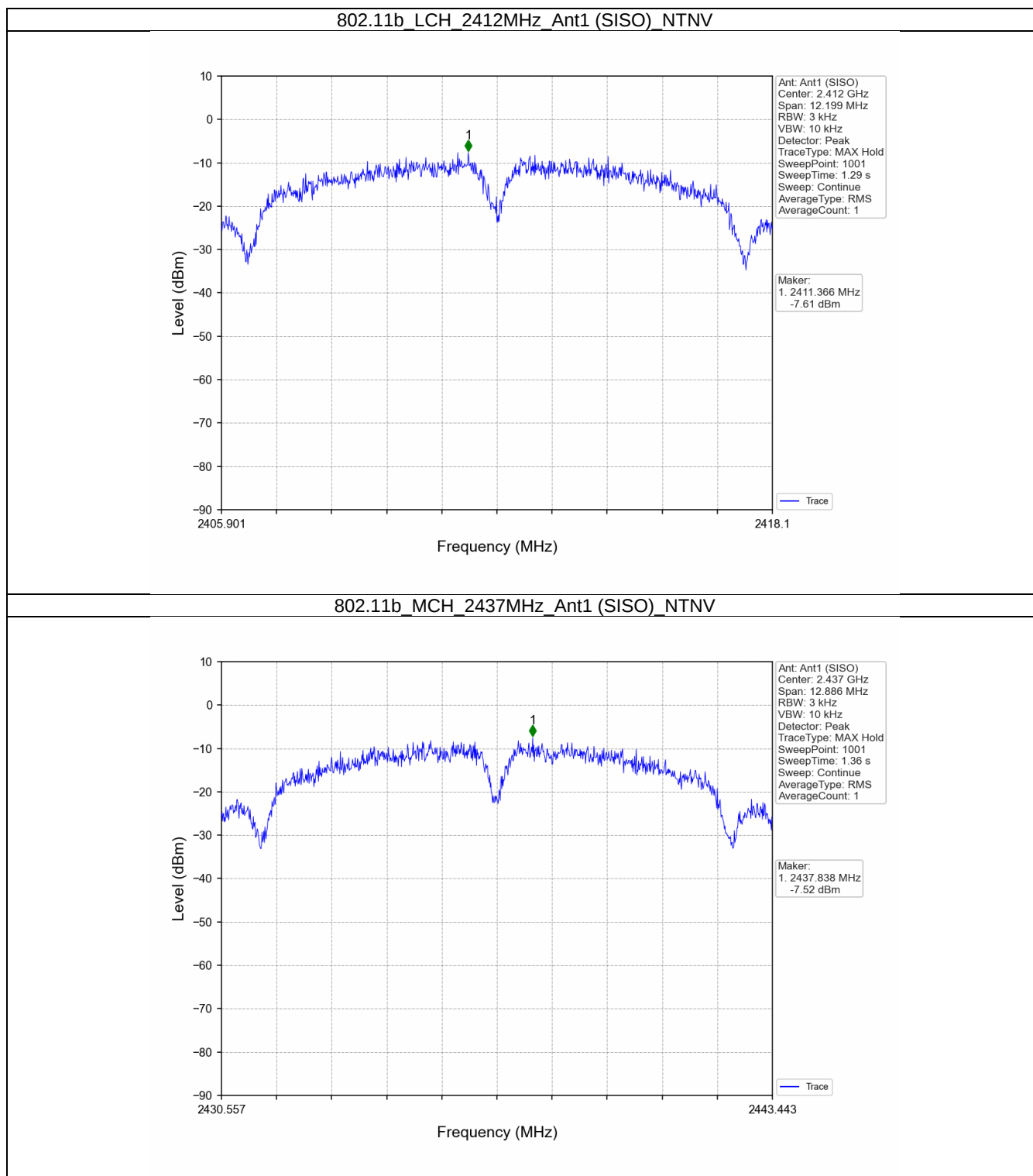
4.1 PSD

4.1.1 Test Result

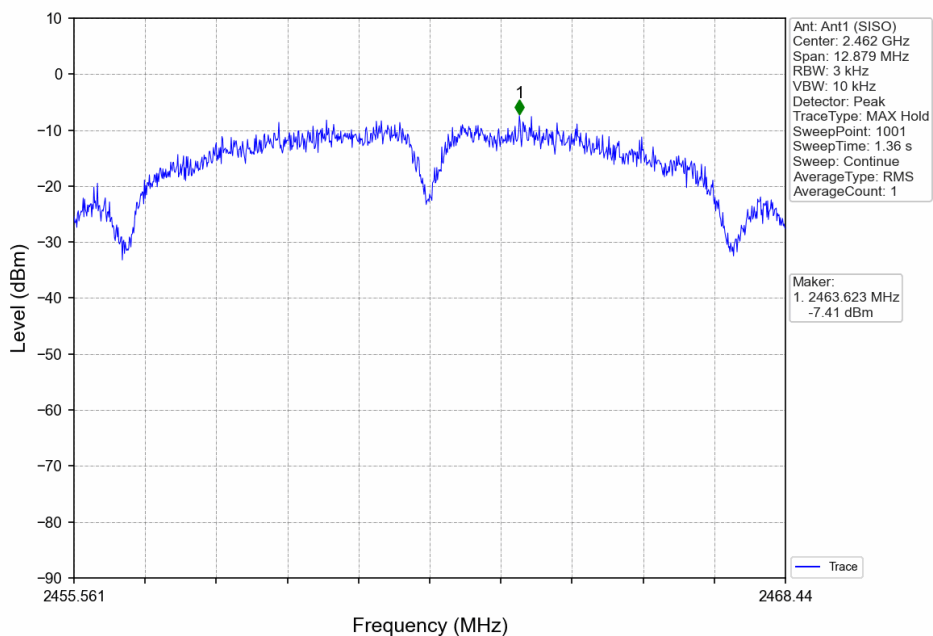
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-7.61	<=8	Pass
		2437	-7.52	<=8	Pass
		2462	-7.41	<=8	Pass
802.11g	SISO	2412	-8.79	<=8	Pass
		2437	-9.82	<=8	Pass
		2462	-8.01	<=8	Pass
802.11n (HT20)	SISO	2412	-10.04	<=8	Pass
		2437	-10.84	<=8	Pass
		2462	-9.65	<=8	Pass
BLE-1M	SISO	2402	-11.45	<=8	Pass
		2440	-12.19	<=8	Pass
		2480	-12.17	<=8	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

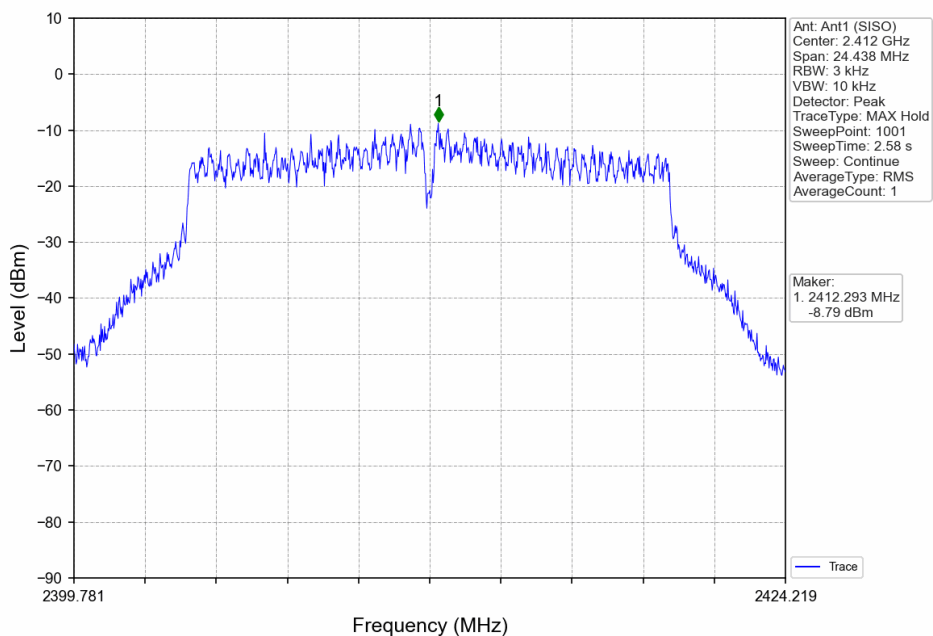
4.1.2 Test Graph



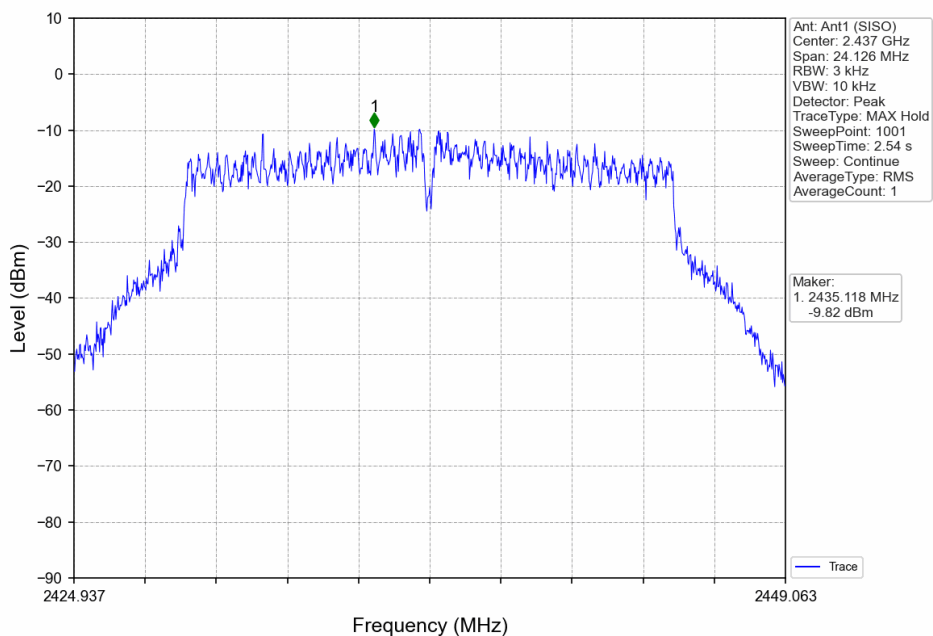
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



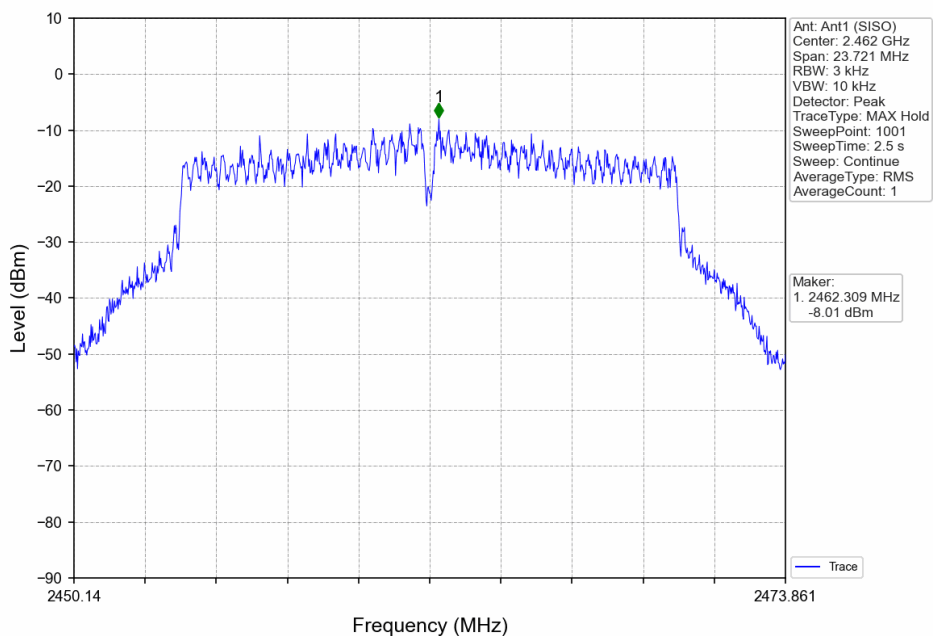
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



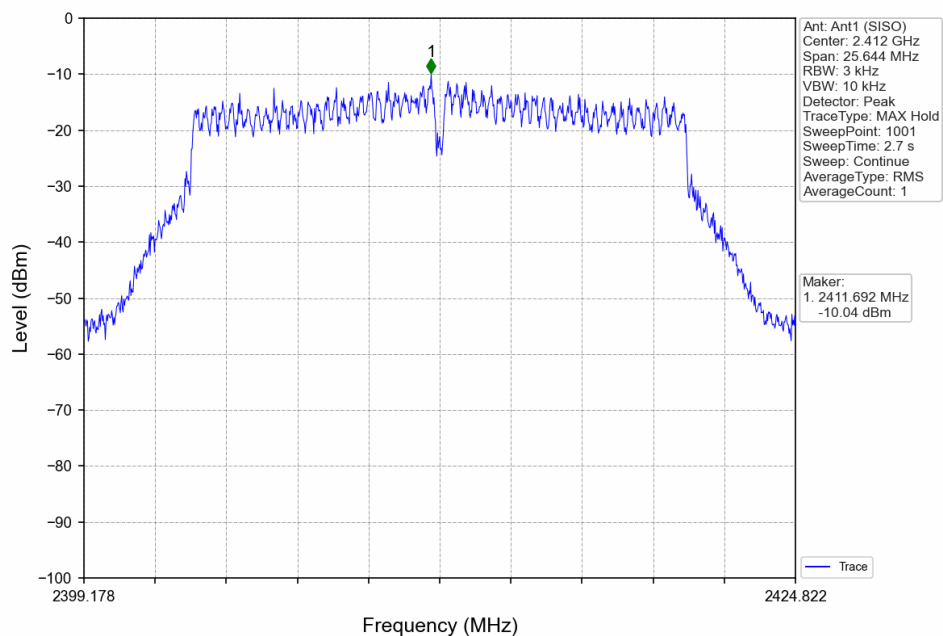
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



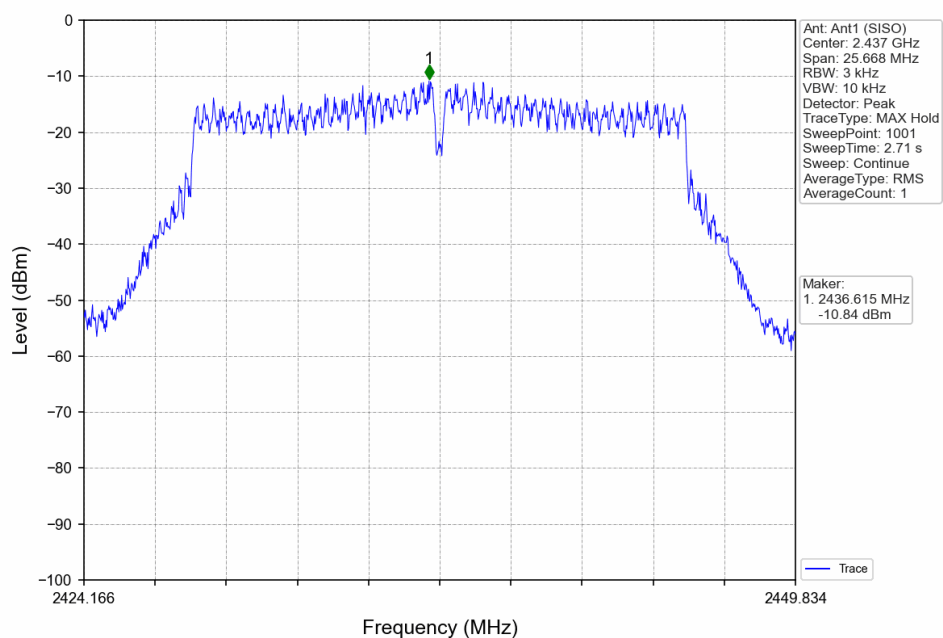
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



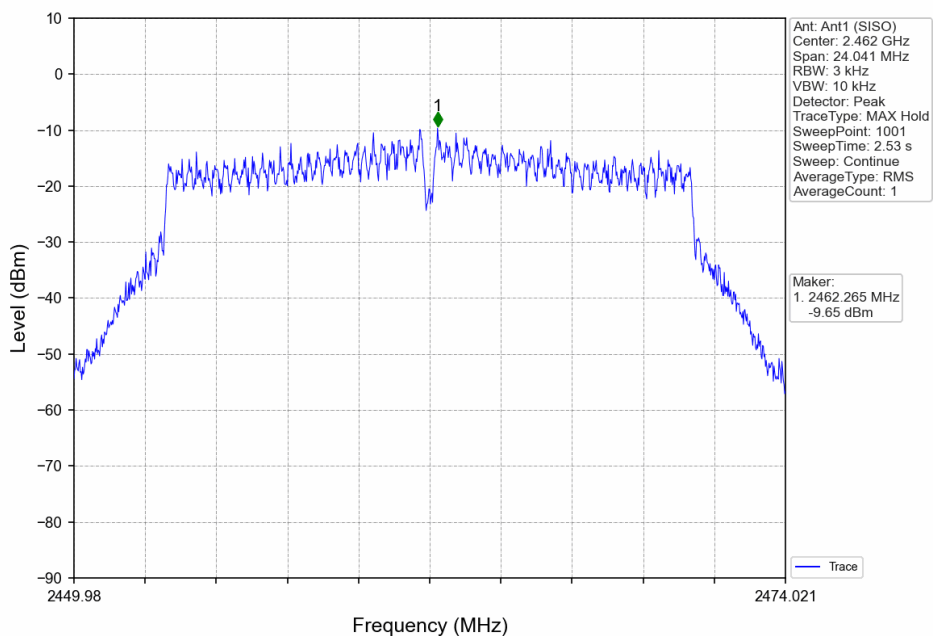
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



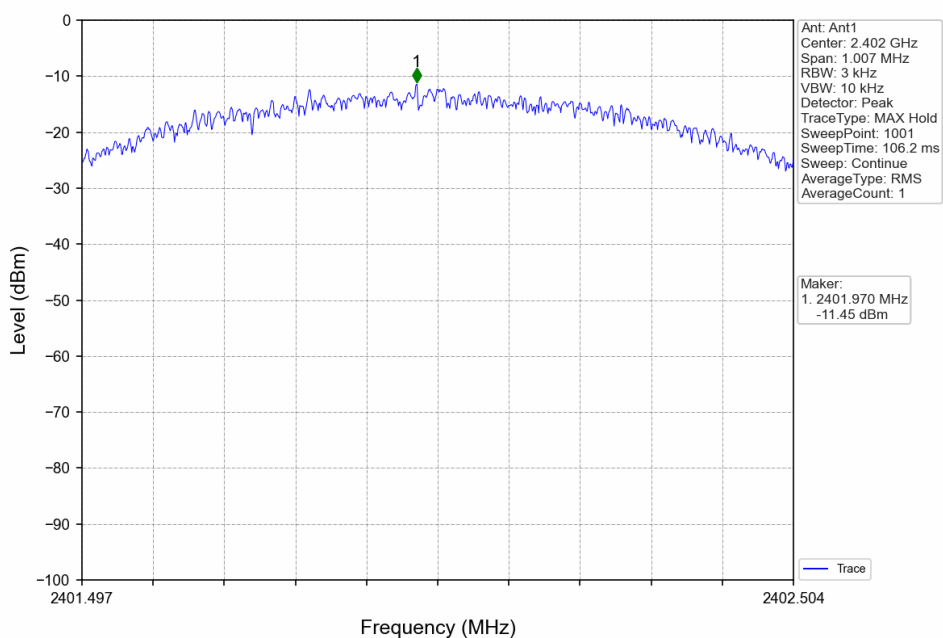
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



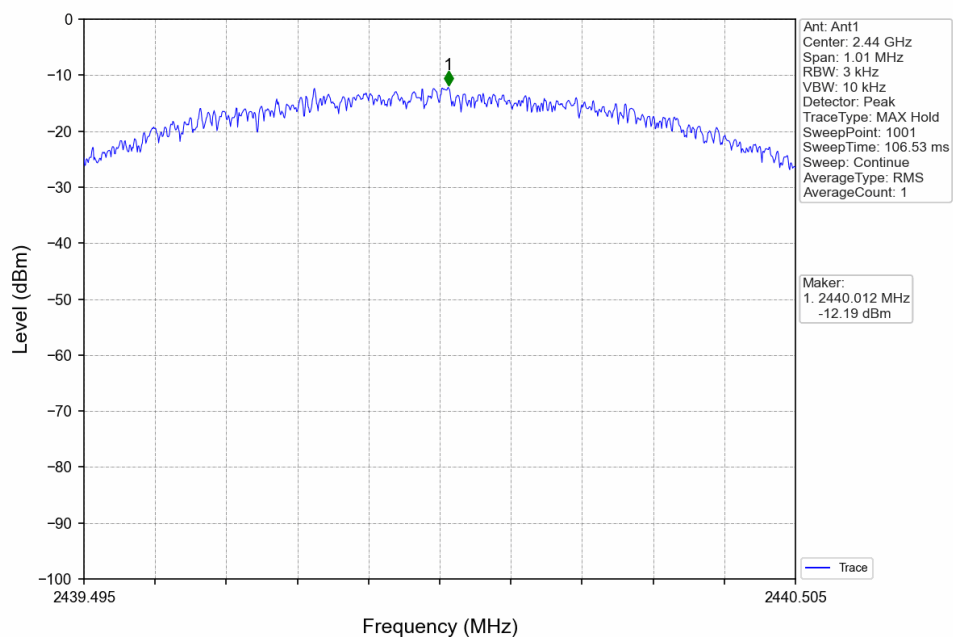
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



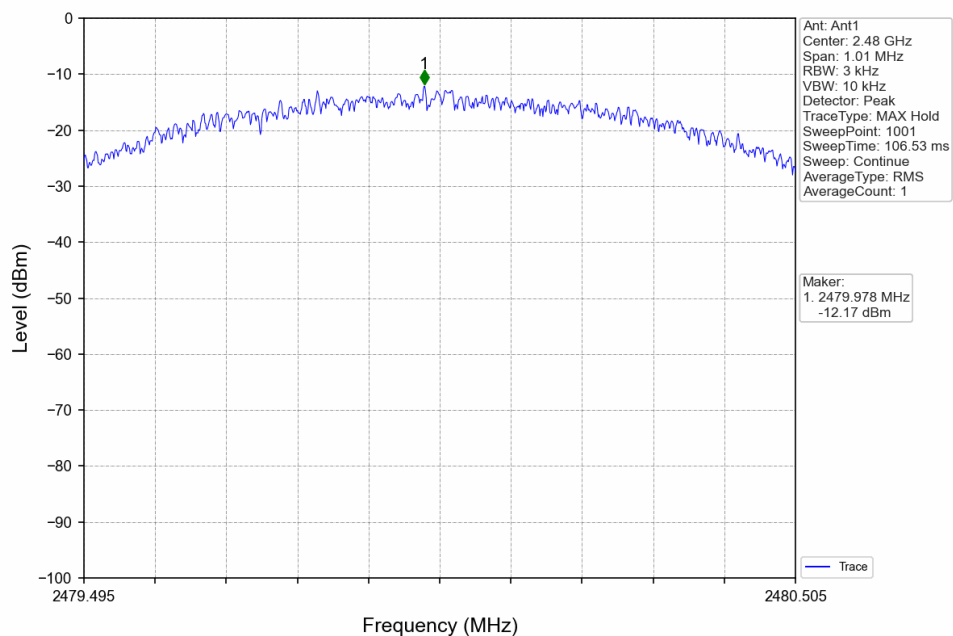
BLE-1M_LCH_2402MHz_DataRate= Ant1_NTNV



BLE-1M_MCH_2440MHz_DataRate= Ant1_NTNV



BLE-1M_HCH_2480MHz_DataRate= Ant1_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

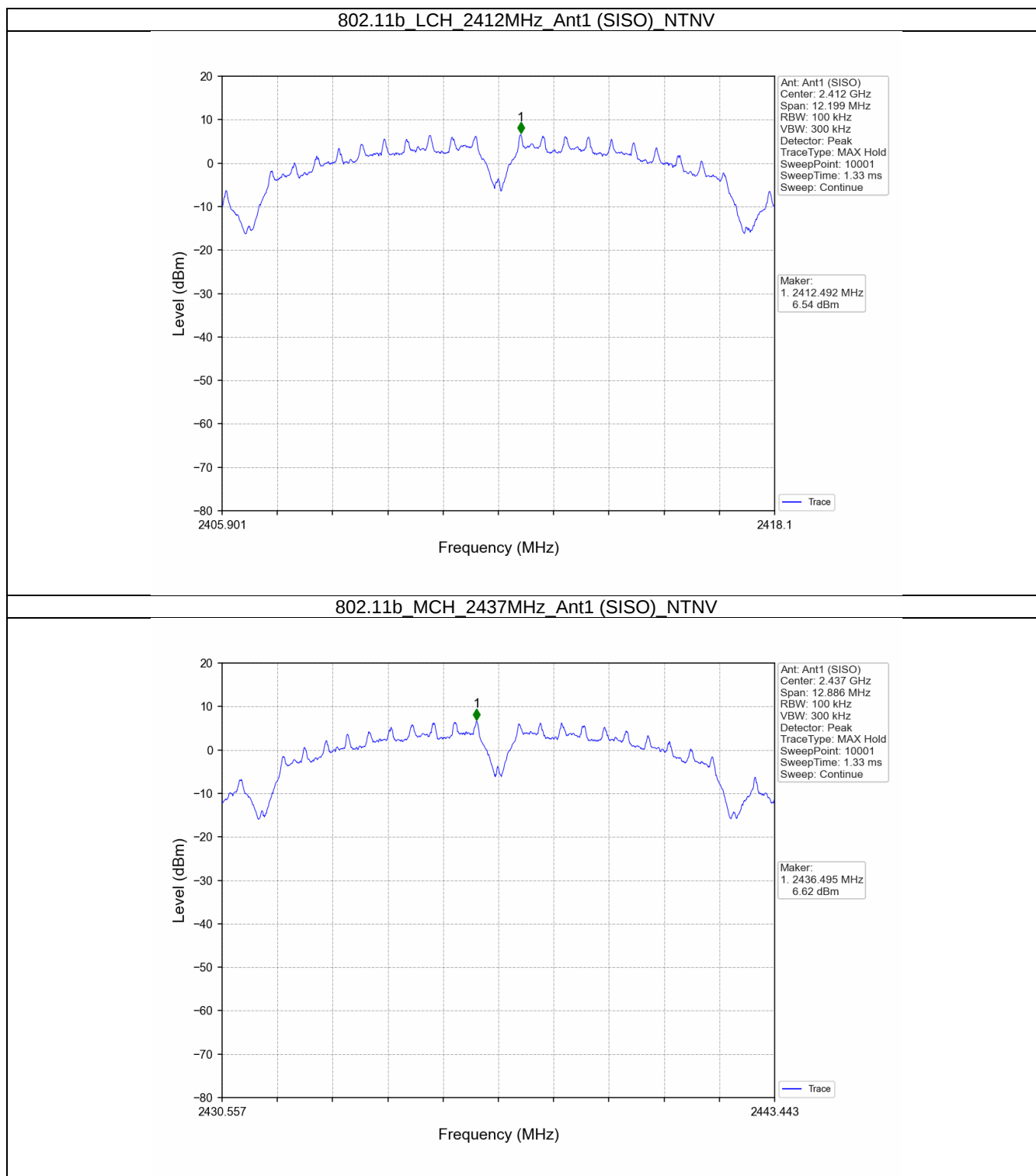
5.1 Ref

5.1.1 Test Result

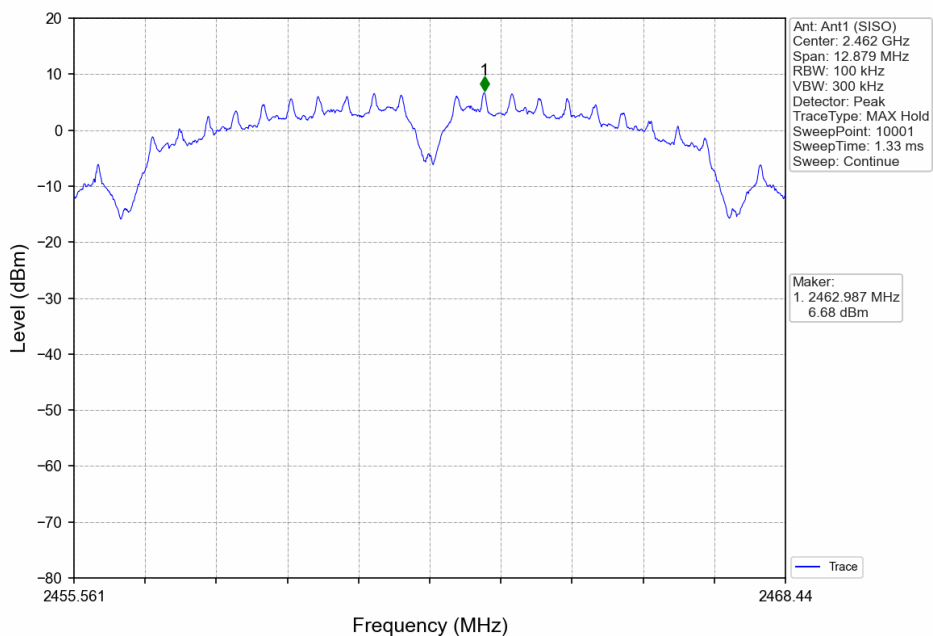
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	6.54
		2437	1	6.62
		2462	1	6.68
802.11g	SISO	2412	1	3.52
		2437	1	3.58
		2462	1	3.74
802.11n (HT20)	SISO	2412	1	2.61
		2437	1	2.35
		2462	1	2.62
BLE-1M	SISO	2402	1	3.96
		2440	1	3.90
		2480	1	3.35

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.

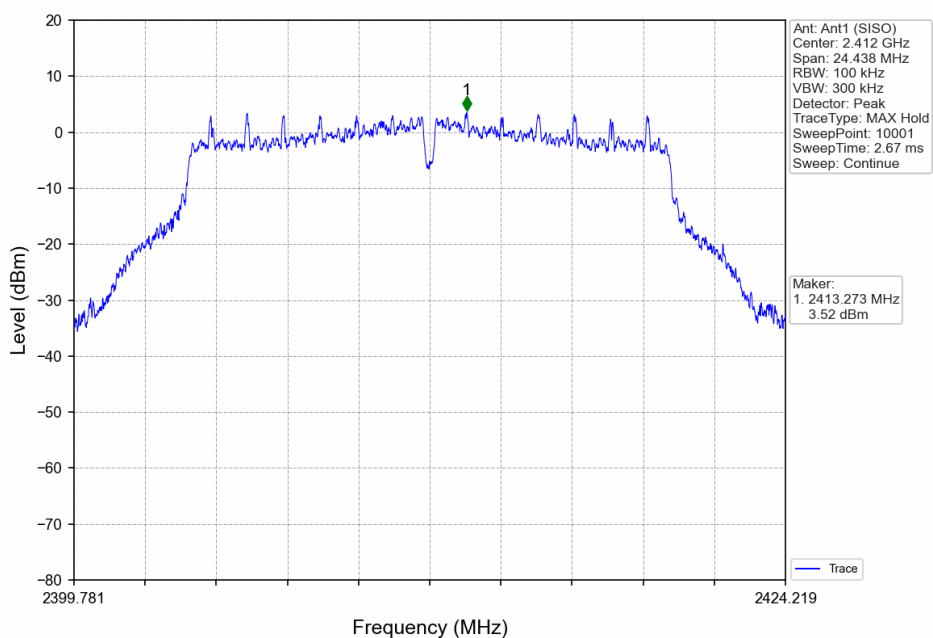
5.1.2 Test Graph



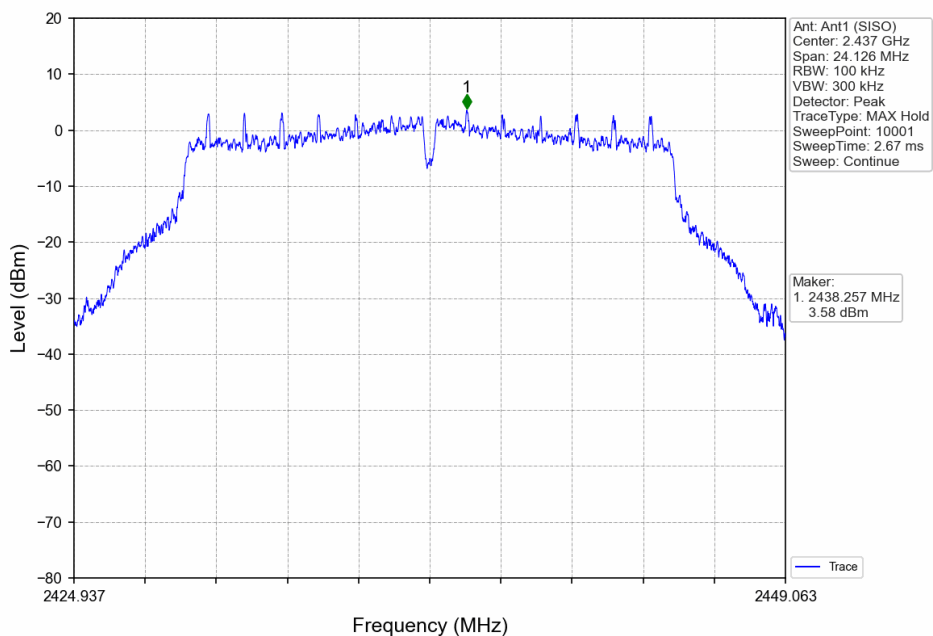
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



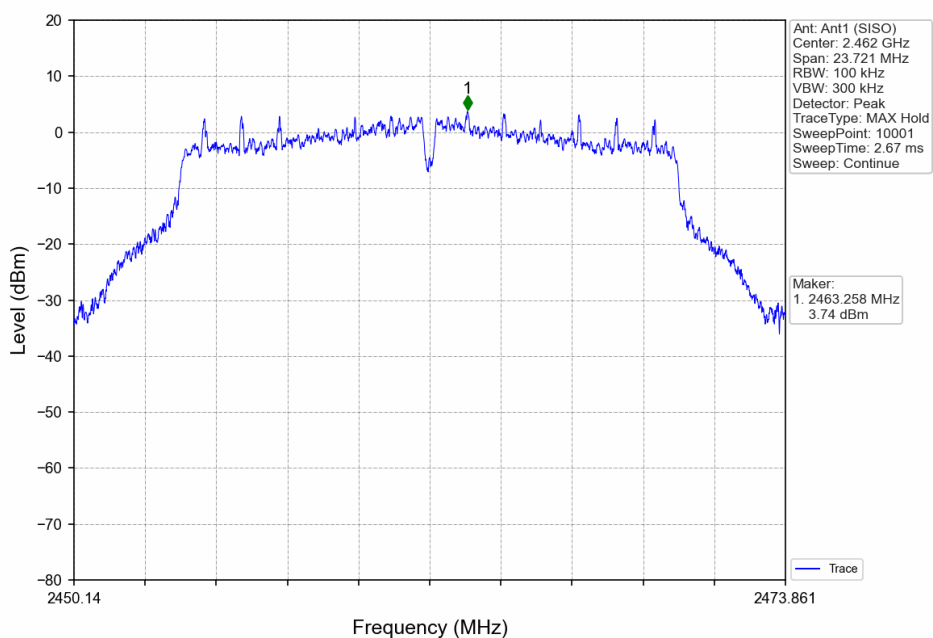
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



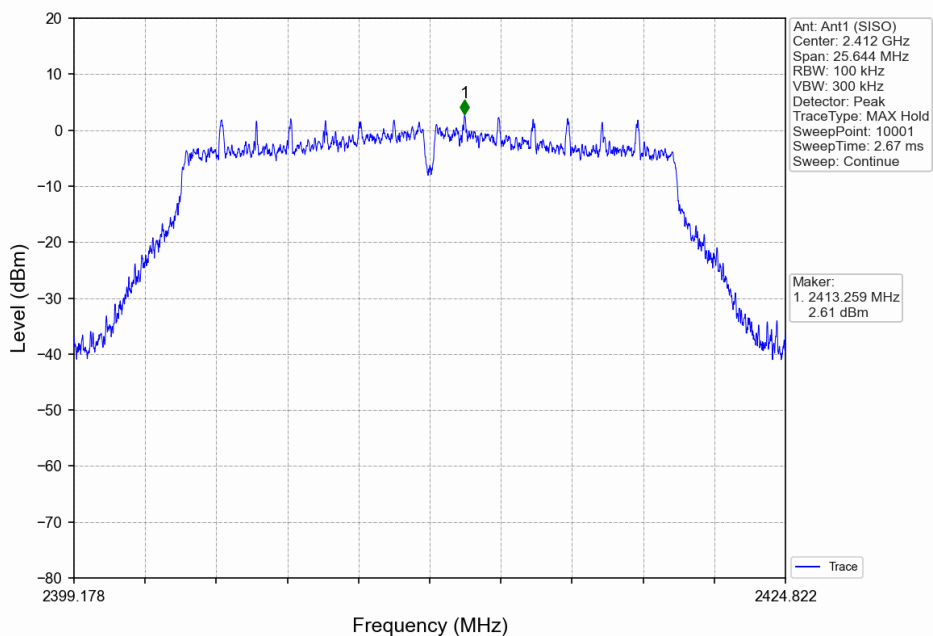
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



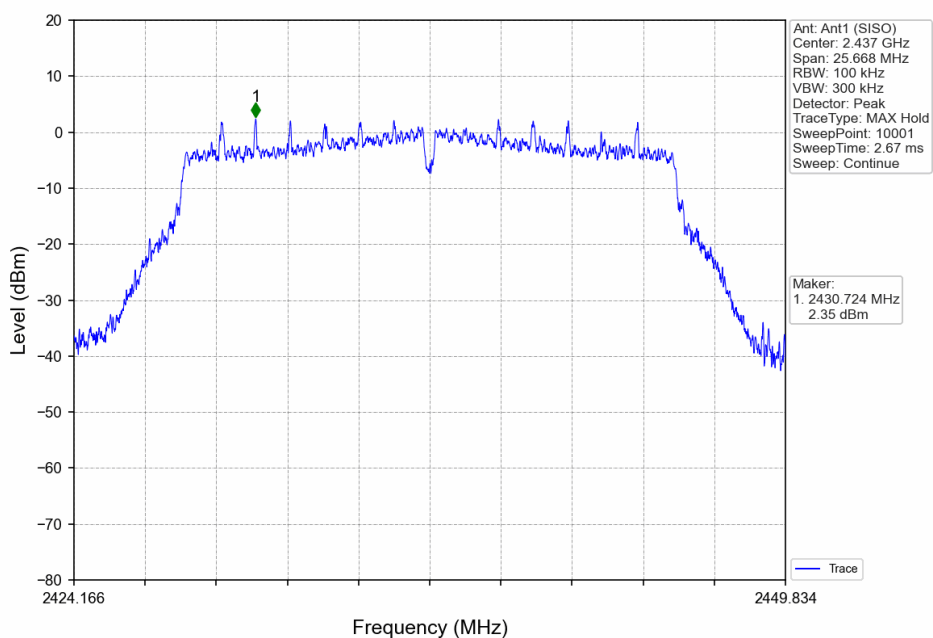
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



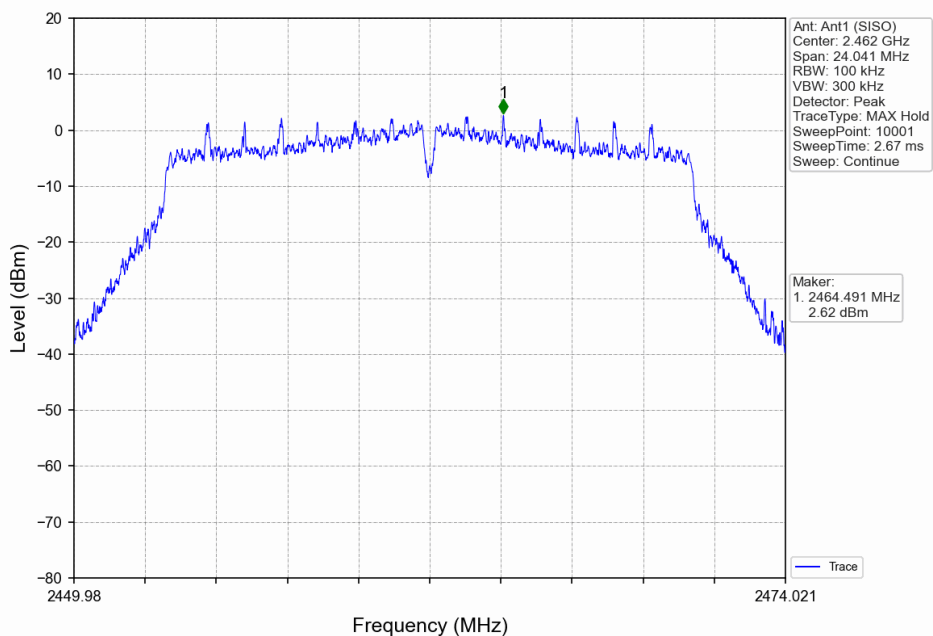
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



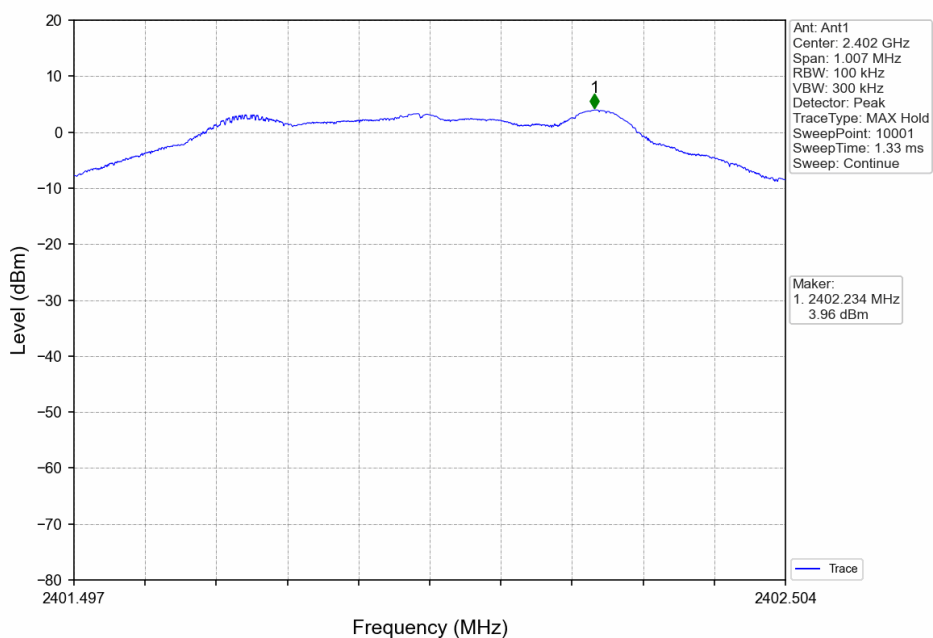
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



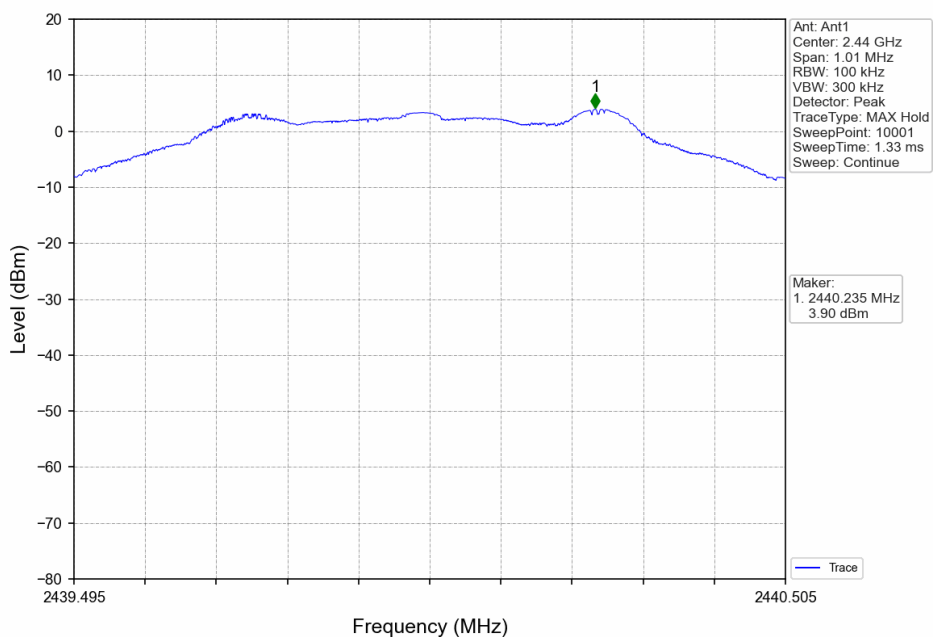
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



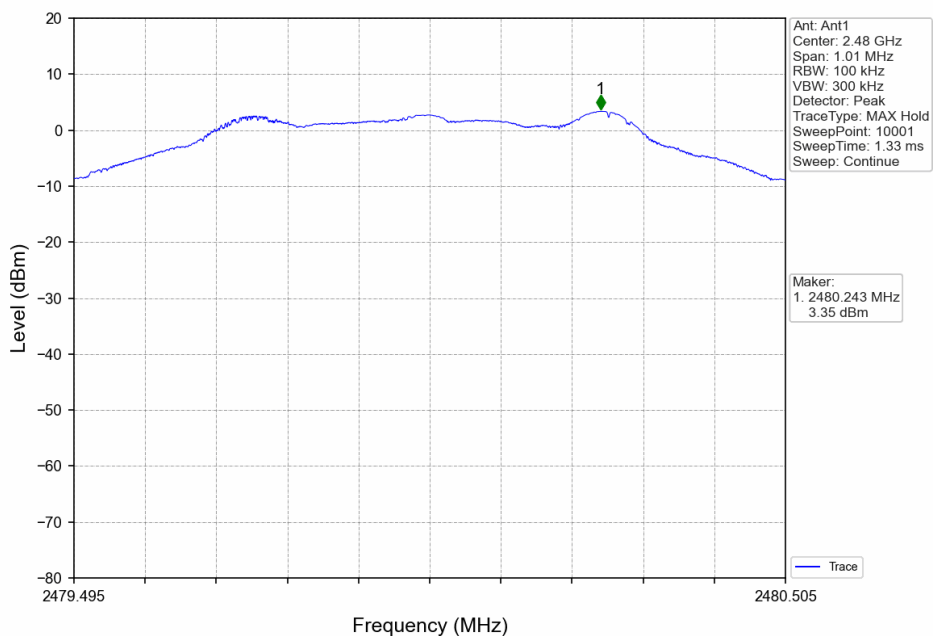
BLE-1M_LCH_2402MHz_DataRate= Ant1_NTNV



BLE-1M_MCH_2440MHz_DataRate= Ant1_NTNV



BLE-1M_HCH_2480MHz_DataRate= Ant1_NTNV



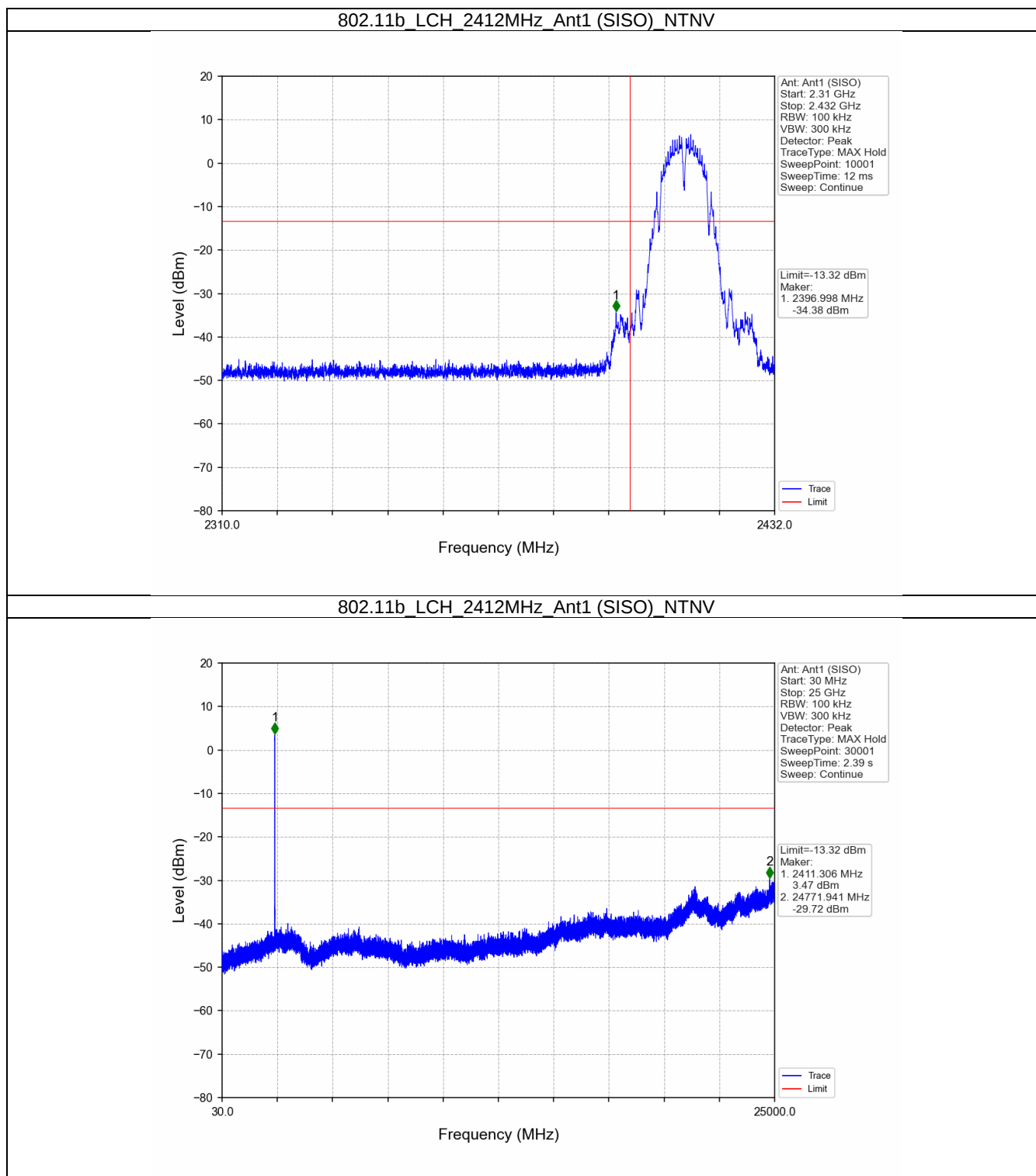
5.2 CSE

5.2.1 Test Result

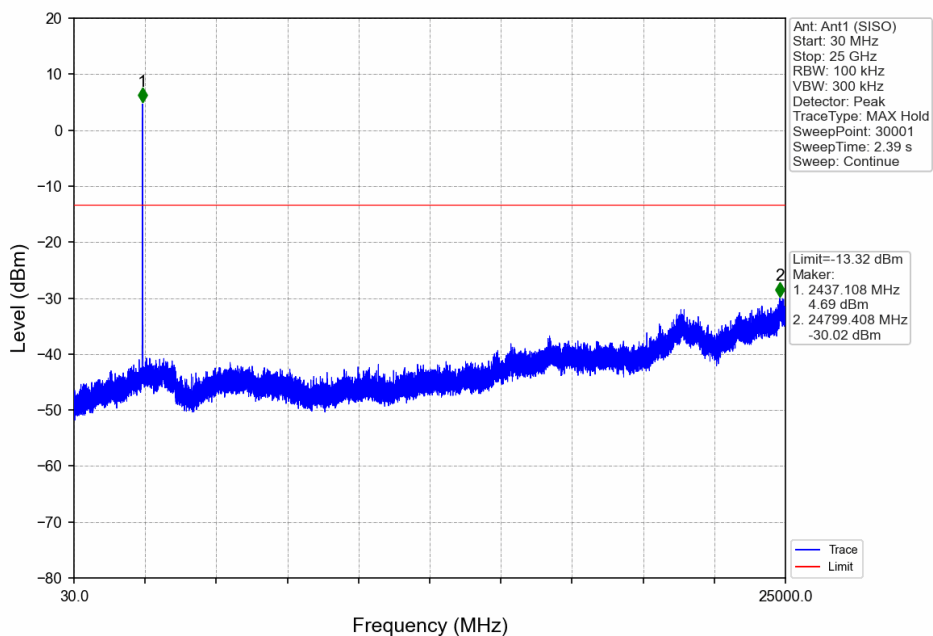
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	6.68	-13.32	Pass
		2437	1	6.68	-13.32	Pass
		2462	1	6.68	-13.32	Pass
802.11g	SISO	2412	1	3.74	-16.26	Pass
		2437	1	3.74	-16.26	Pass
		2462	1	3.74	-16.26	Pass
802.11n (HT20)	SISO	2412	1	2.62	-17.38	Pass
		2437	1	2.62	-17.38	Pass
		2462	1	2.62	-17.38	Pass
BLE-1M	SISO	2402	1	3.96	-16.04	
		2440	1	3.96	-16.04	
		2480	1	3.96	-16.04	

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.

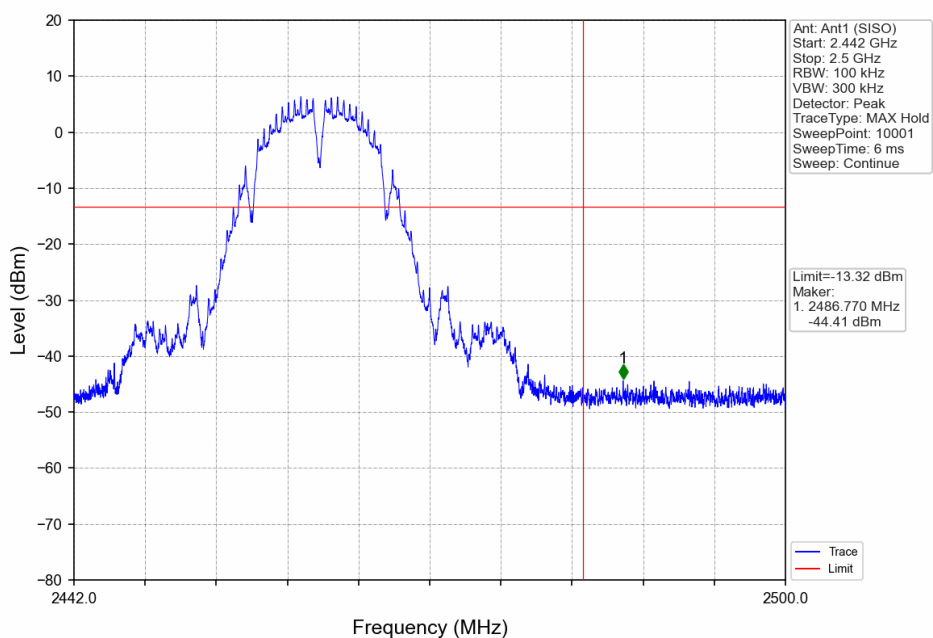
5.2.2 Test Graph



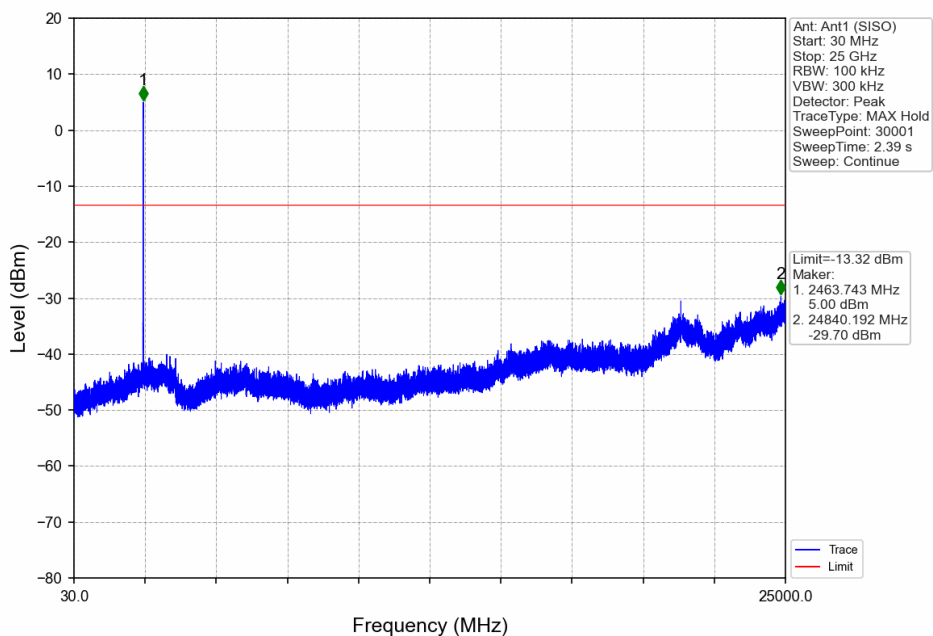
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



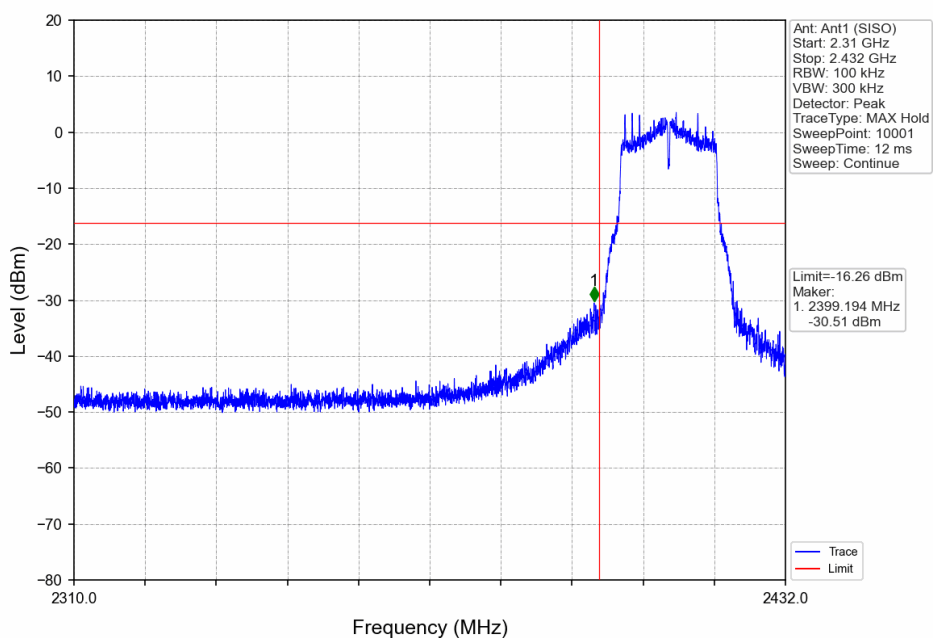
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



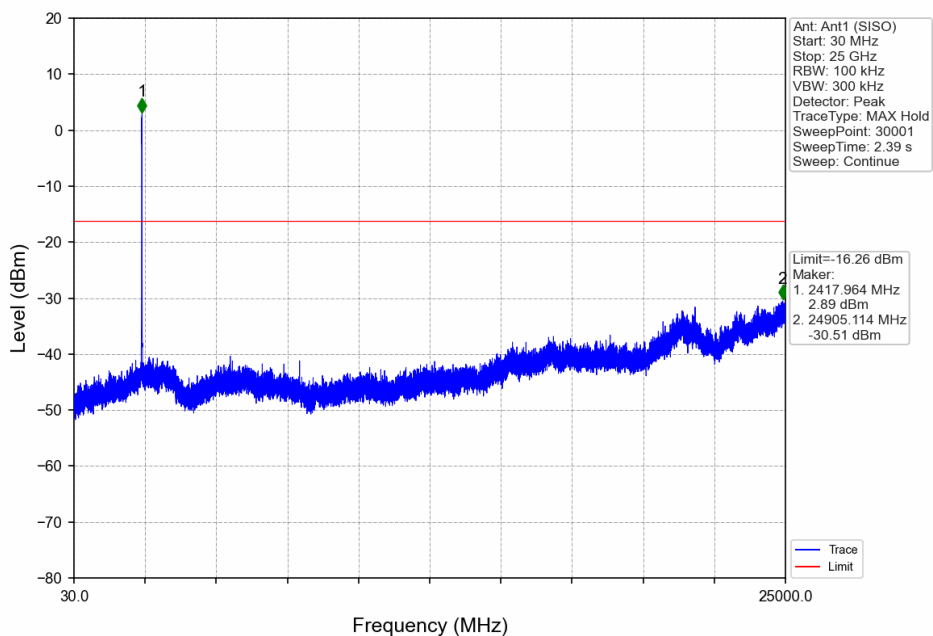
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



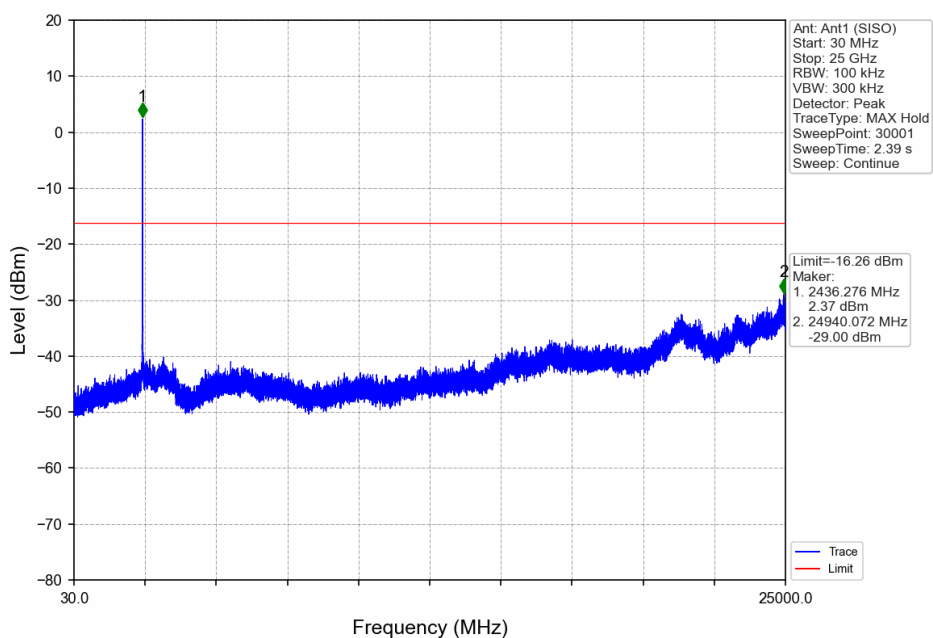
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



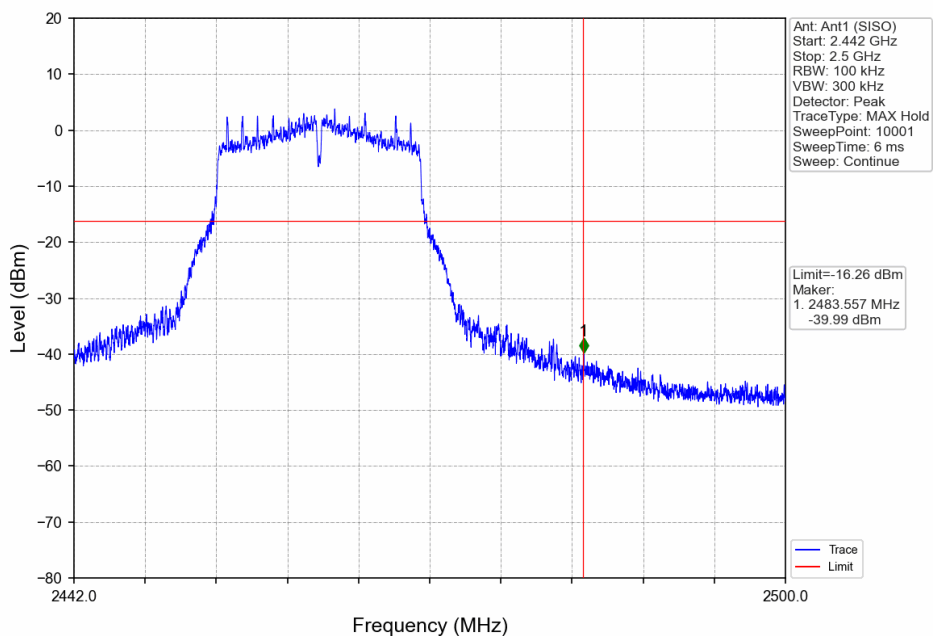
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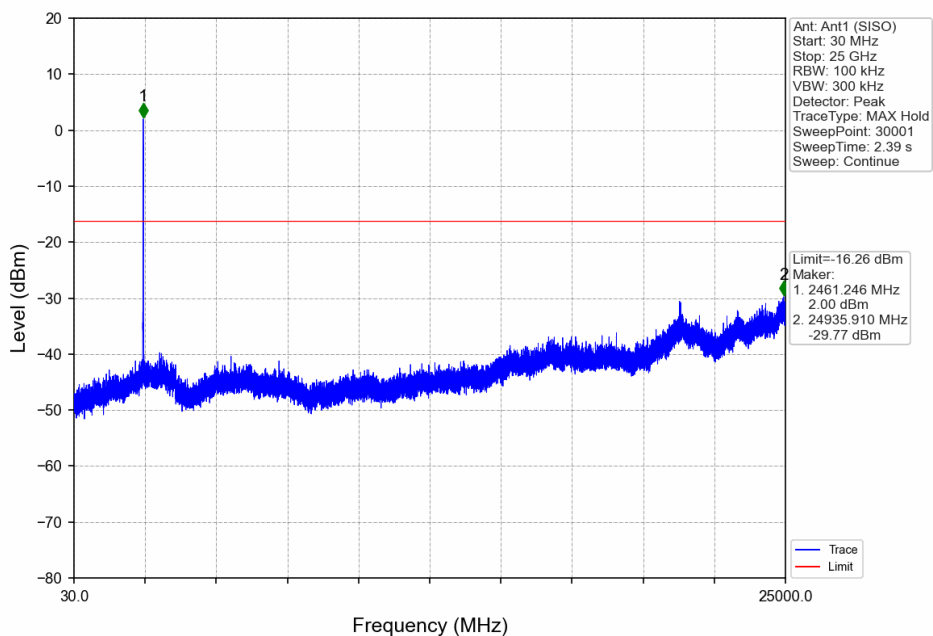
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



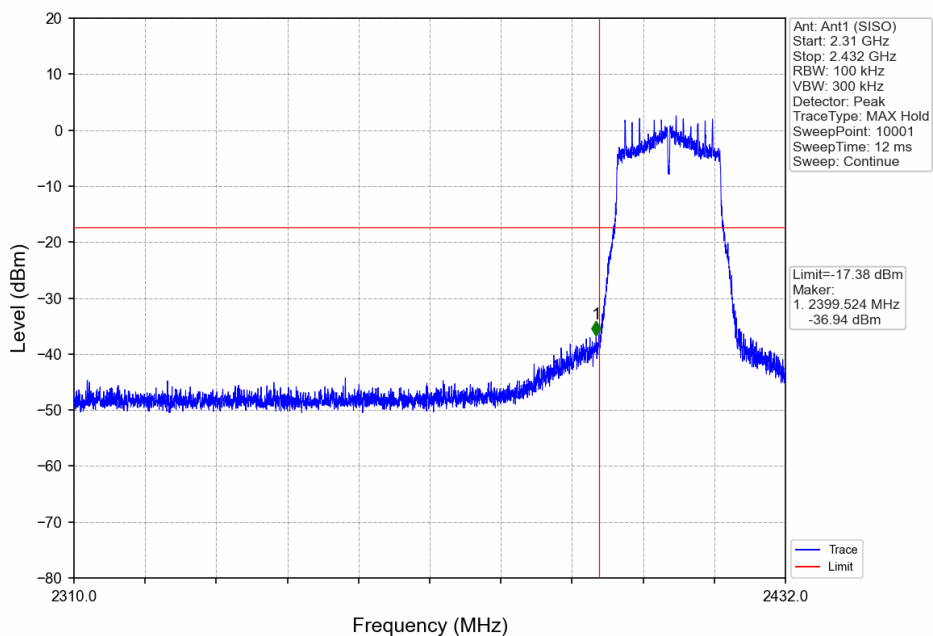
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



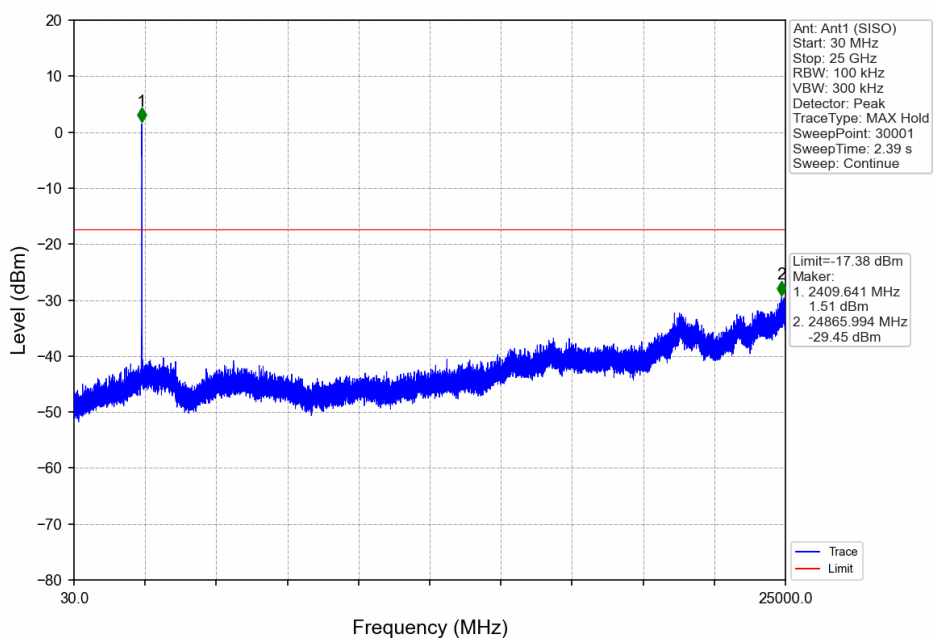
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



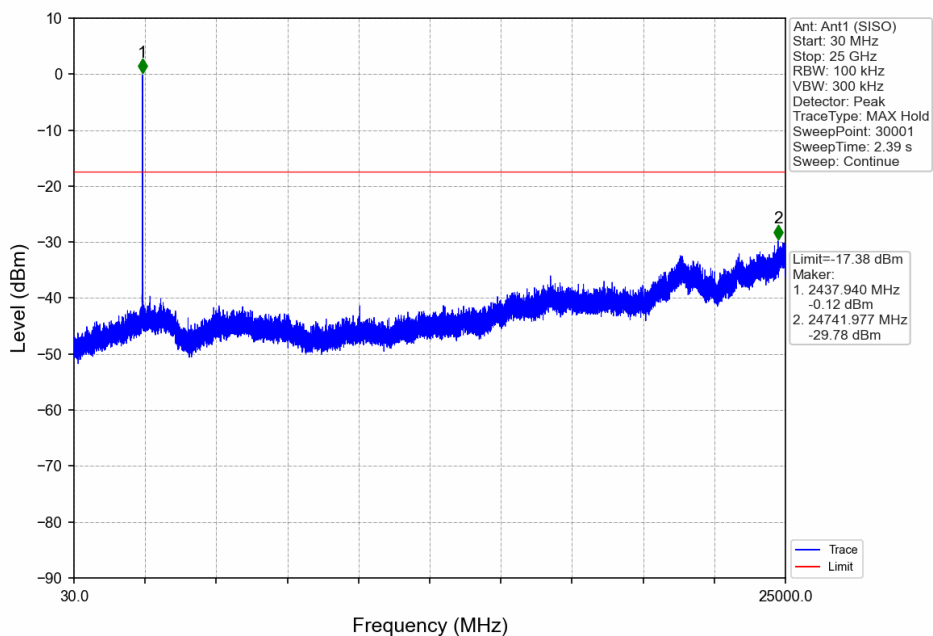
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



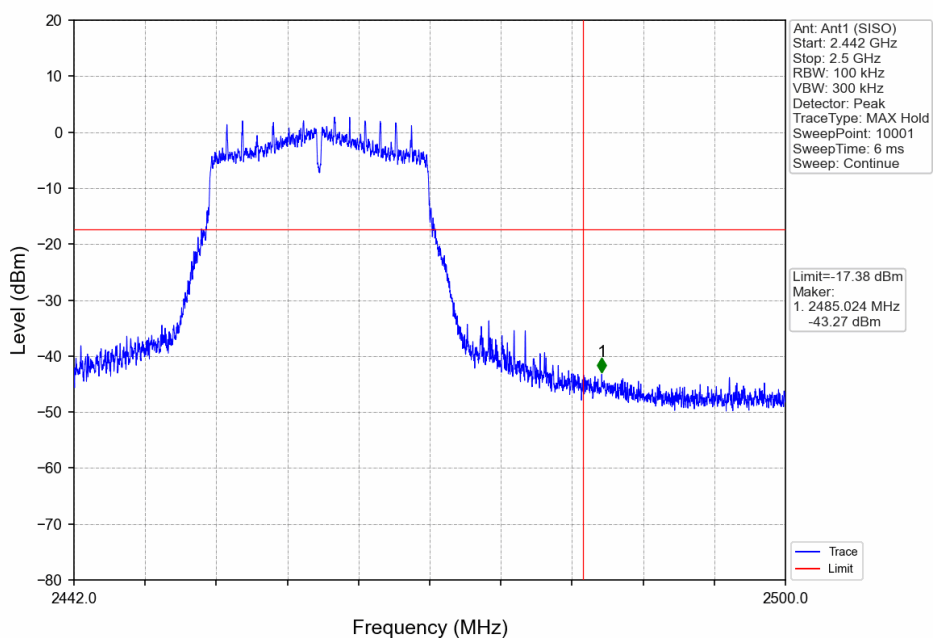
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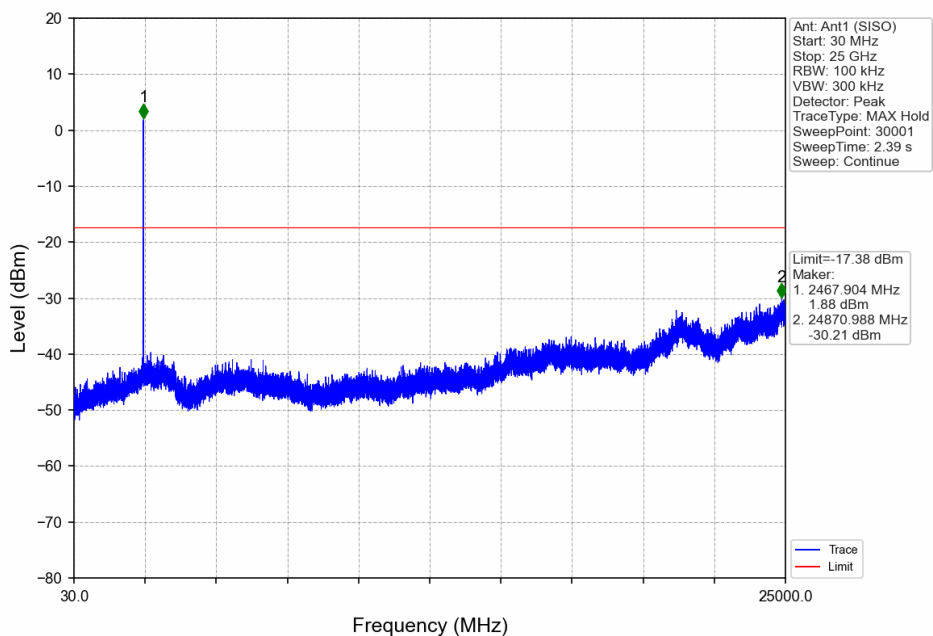
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



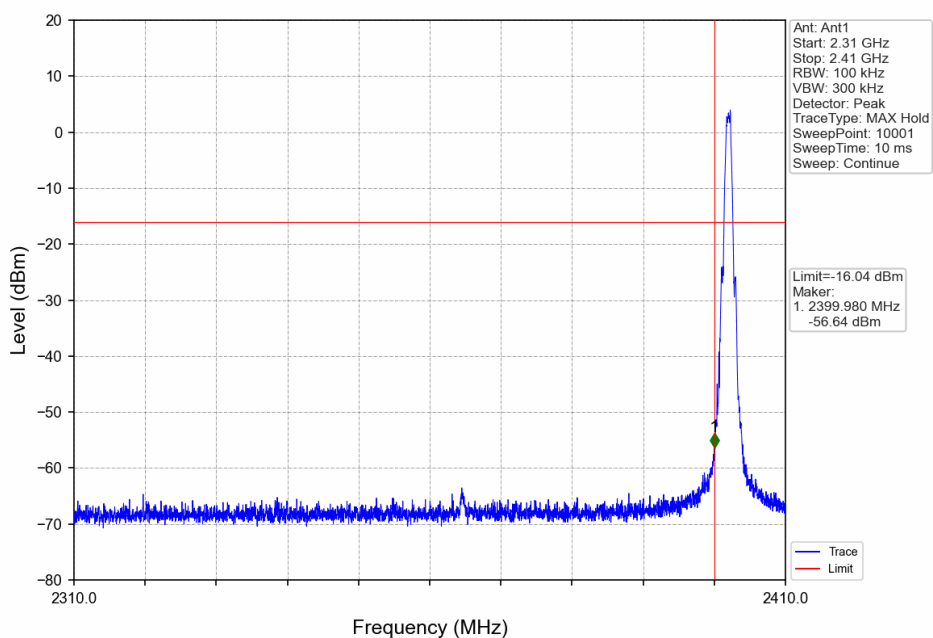
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



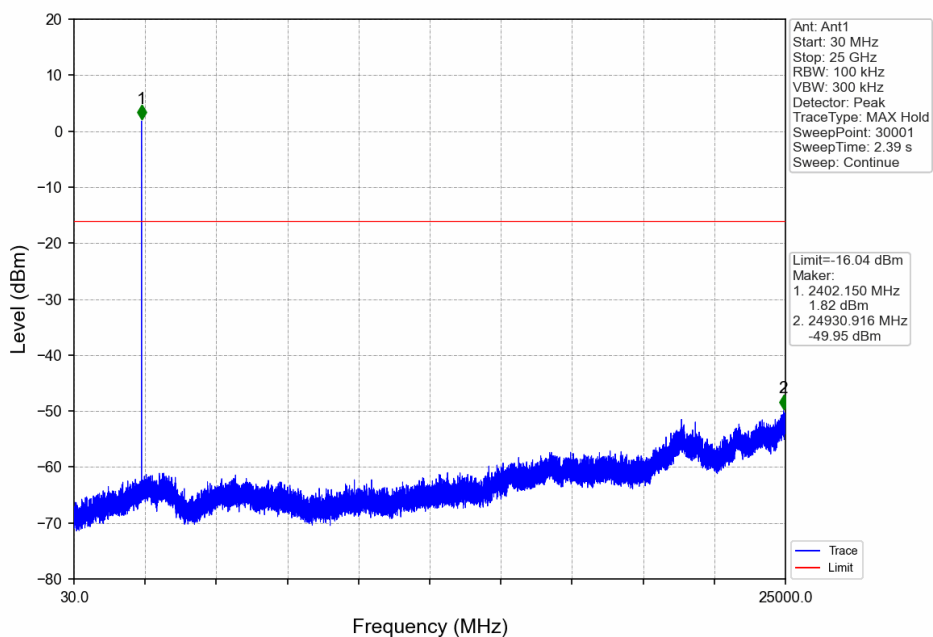
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



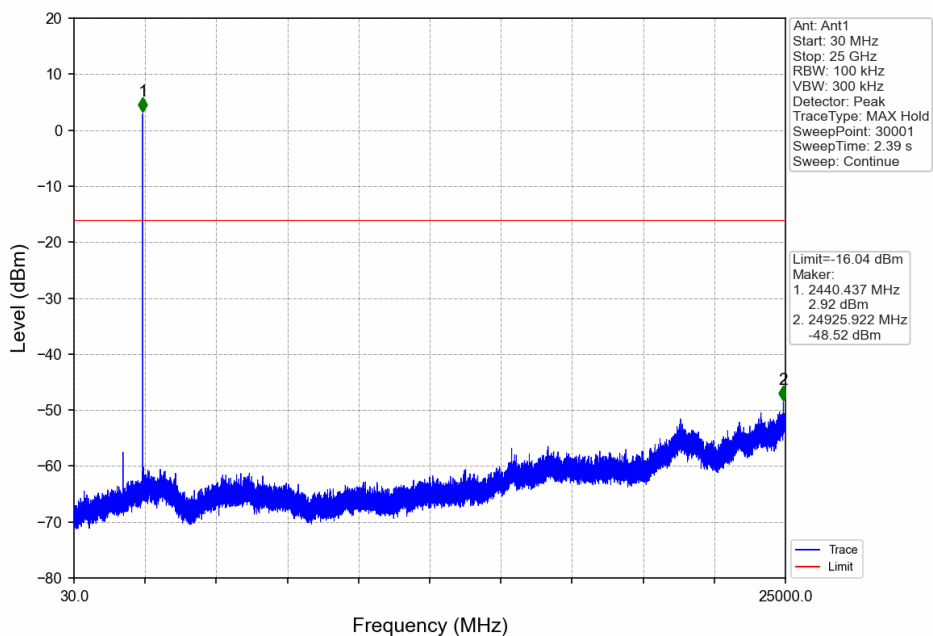
BLE-1M_LCH_2402MHz_DataRate= Ant1_NTNV



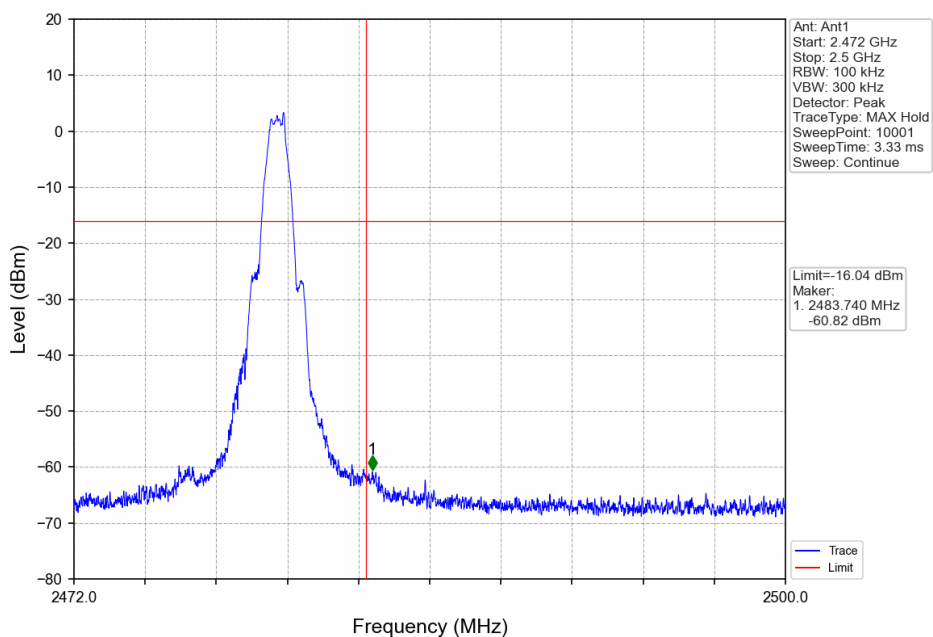
BLE-1M_LCH_2402MHz_DataRate= Ant1_NTNV



BLE-1M_MCH_2440MHz_DataRate= Ant1_NTNV



BLE-1M_HCH_2480MHz_DataRate= Ant1_NTNV



BLE-1M_HCH_2480MHz_DataRate= Ant1_NTNV

