

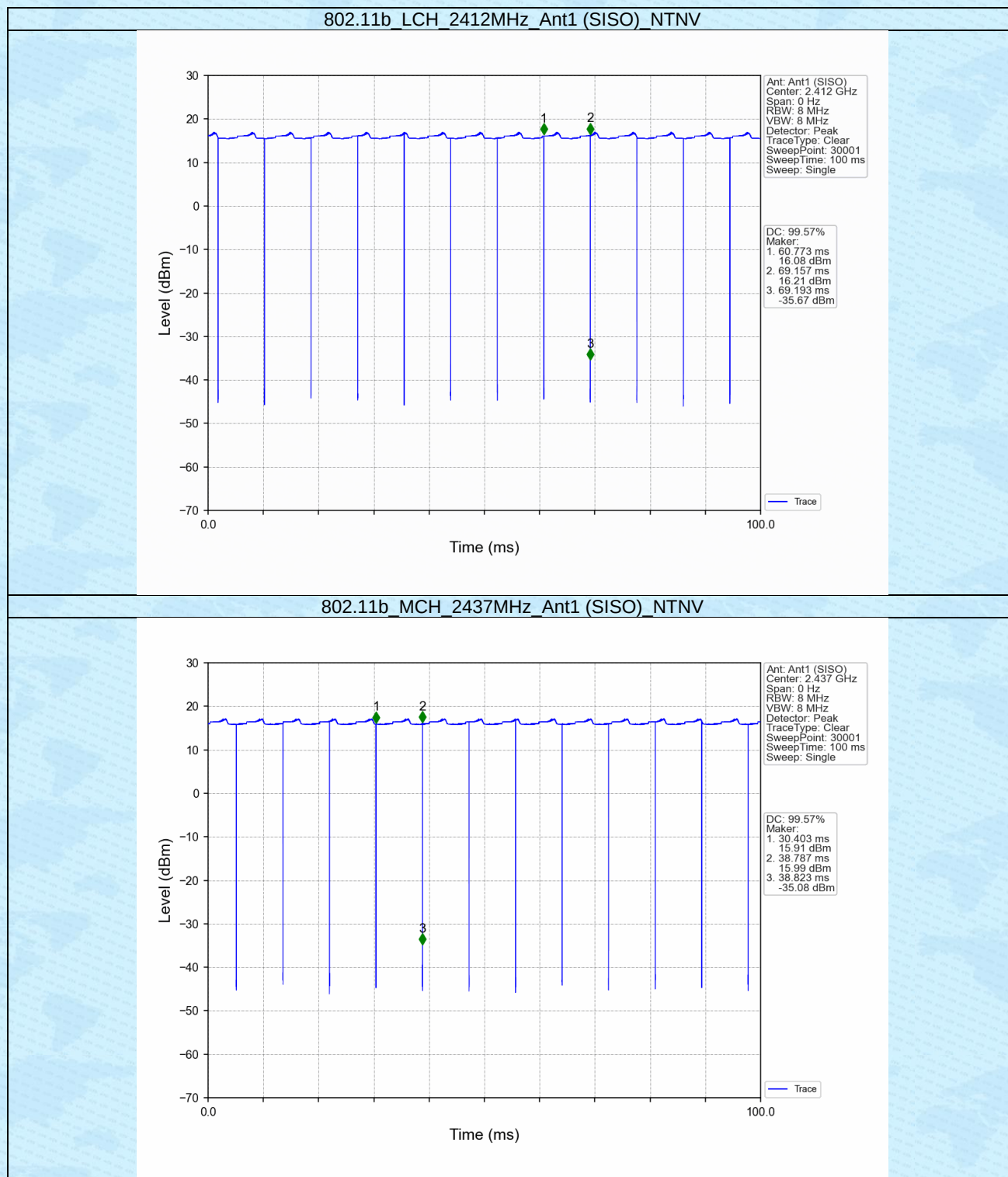
1. Duty Cycle

1.1 Ant1

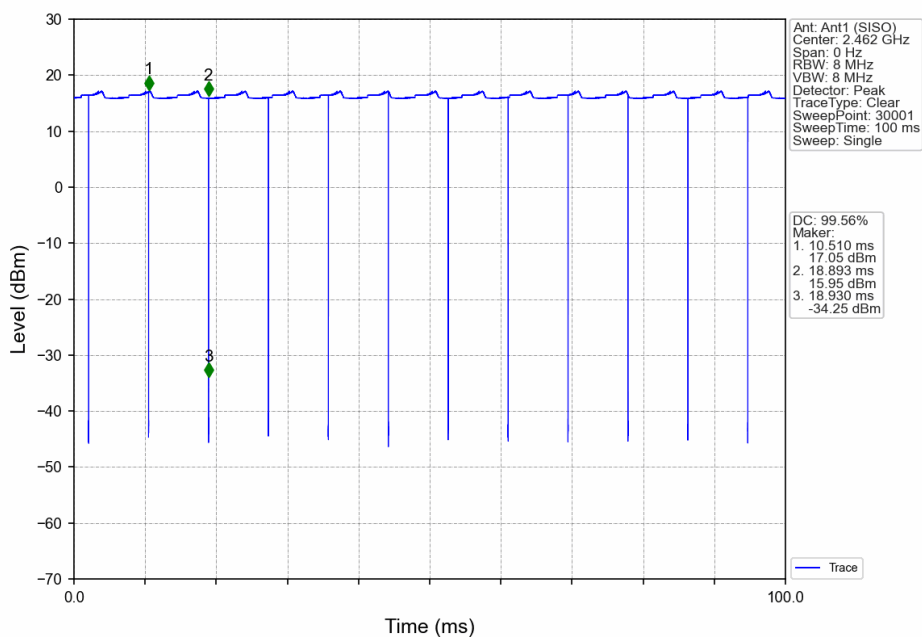
1.1.1 Test Result

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	8.384	8.420	99.57	0.02	0.04
		2437	8.384	8.420	99.57	0.02	0.04
		2462	8.383	8.420	99.56	0.02	0.04
802.11g	SISO	2412	1.395	1.436	97.14	0.13	0.00
		2437	1.395	1.437	97.08	0.13	0.03
		2462	1.395	1.437	97.08	0.13	0.03
802.11n (HT20)	SISO	2412	1.303	1.345	96.88	0.14	0.03
		2437	1.303	1.345	96.88	0.14	0.03
		2462	1.303	1.345	96.88	0.14	0.03
802.11n (HT40)	SISO	2422	0.650	0.692	93.93	0.27	0.03
		2437	0.650	0.692	93.93	0.27	0.03
		2452	0.651	0.693	93.94	0.27	0.03
802.11n (HT20)	MIMO	2412	1.303	1.345	96.88	0.14	0.03
		2437	1.303	1.345	96.88	0.14	0.03
		2462	1.303	1.345	96.88	0.14	0.03
802.11n (HT40)	MIMO	2422	0.650	0.692	93.93	0.27	0.03
		2437	0.648	0.692	93.64	0.29	0.03
		2452	0.650	0.692	93.93	0.27	0.03

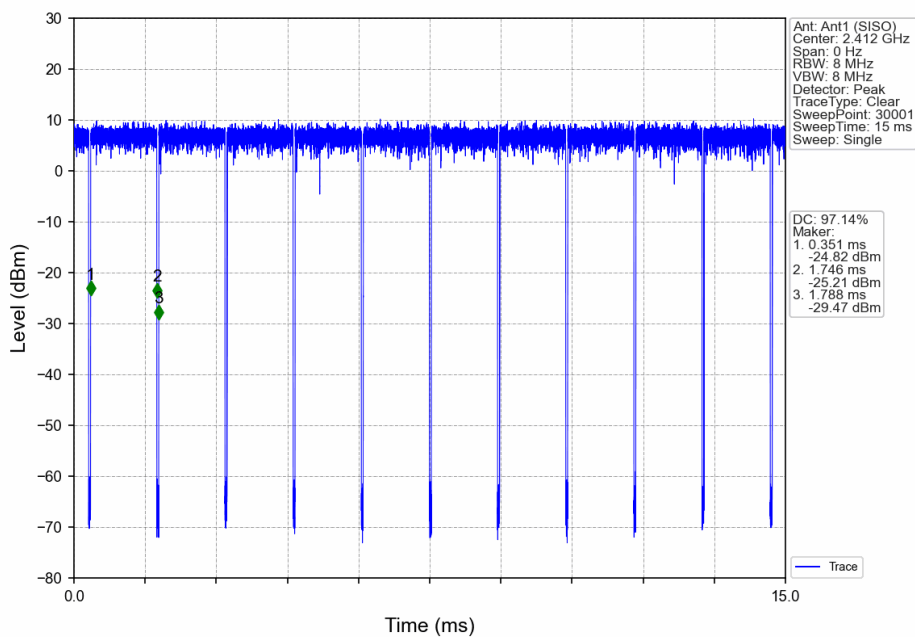
1.1.2 Test Graph



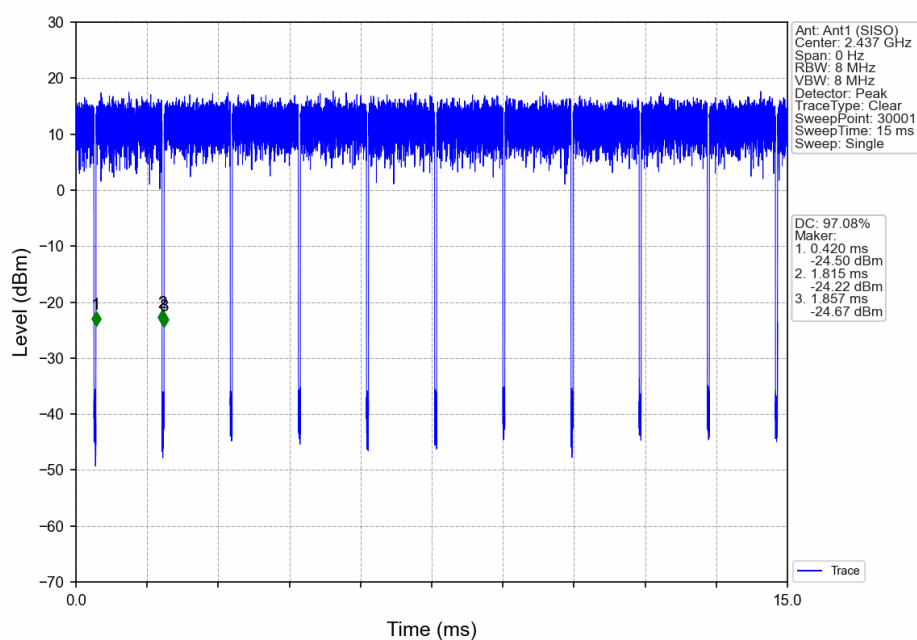
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



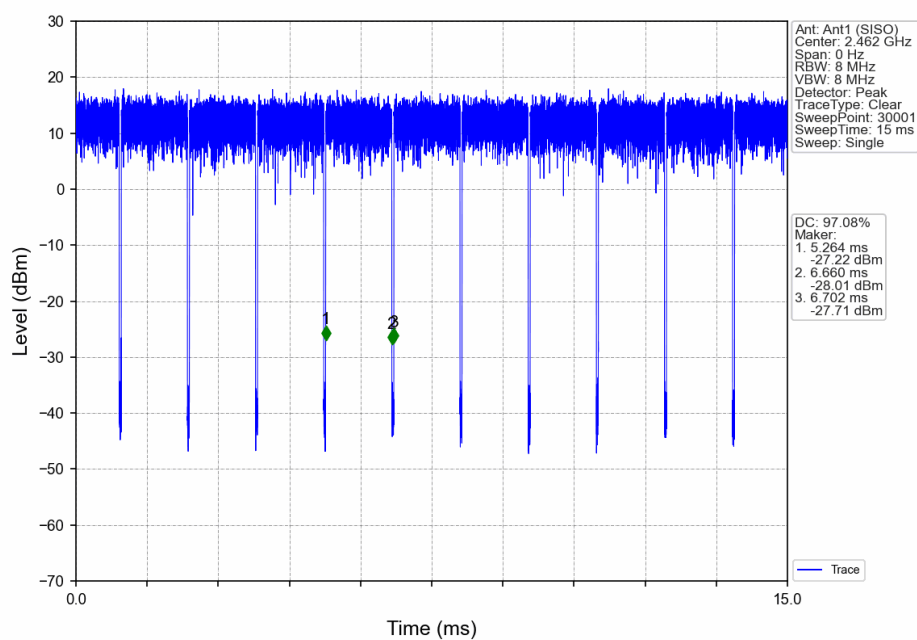
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



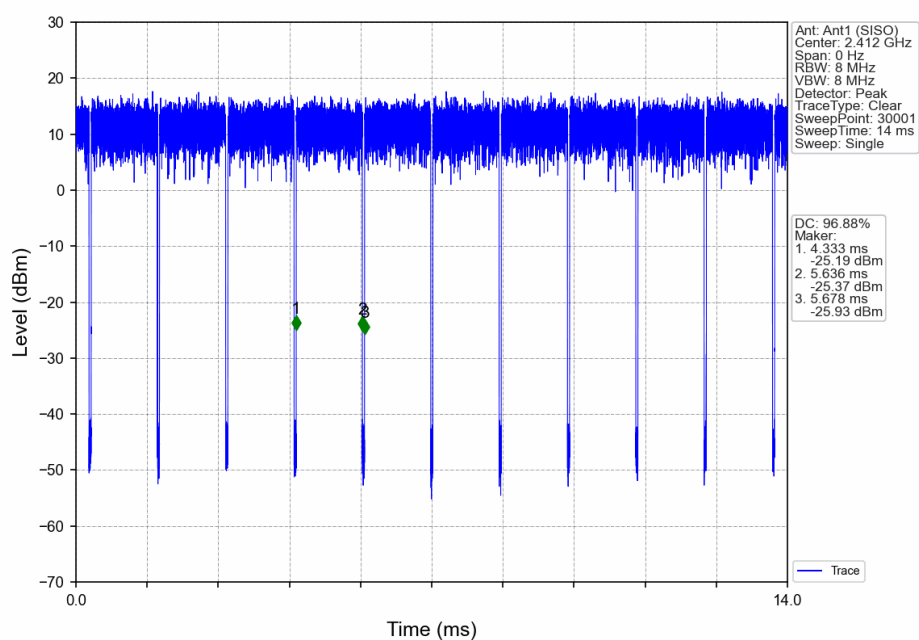
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



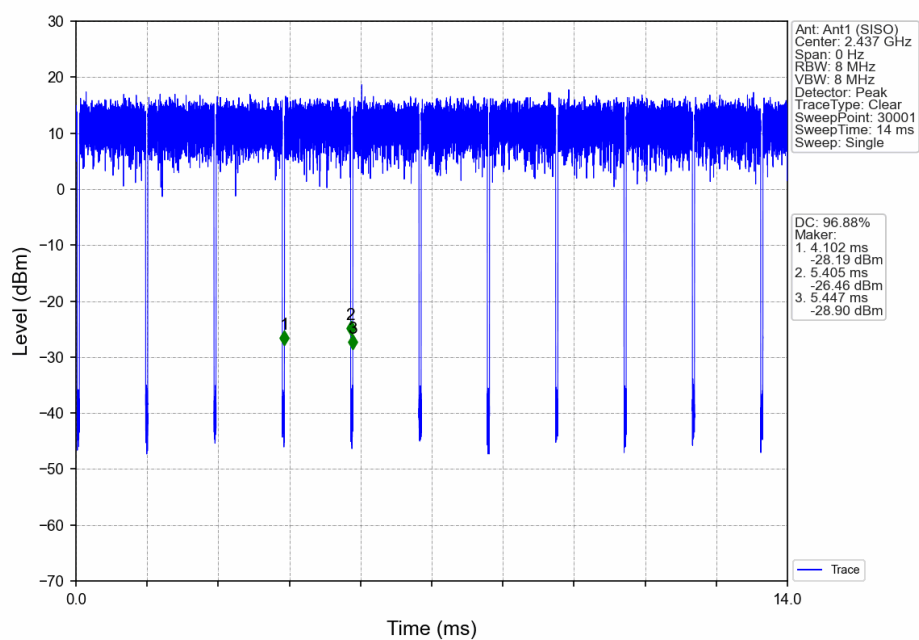
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



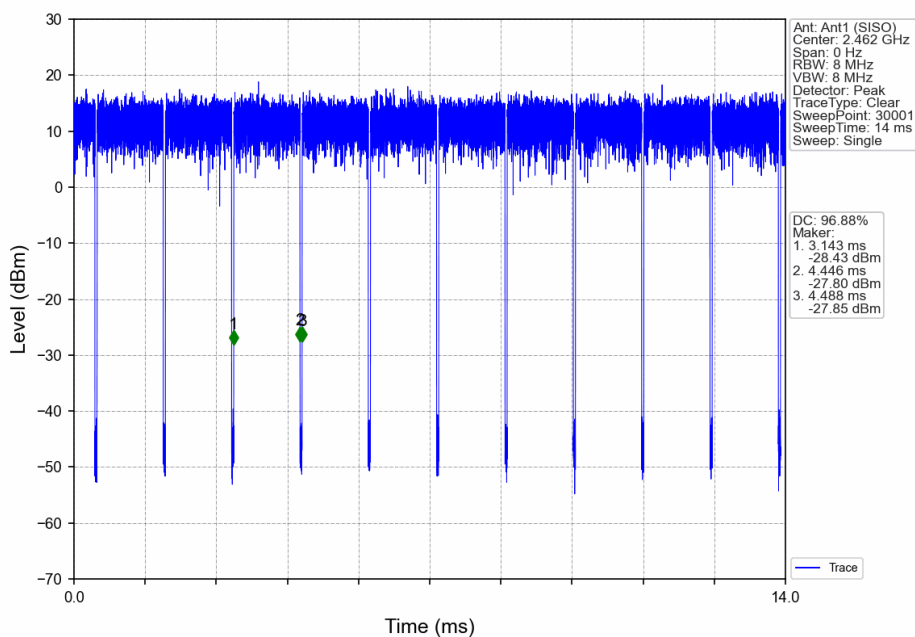
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



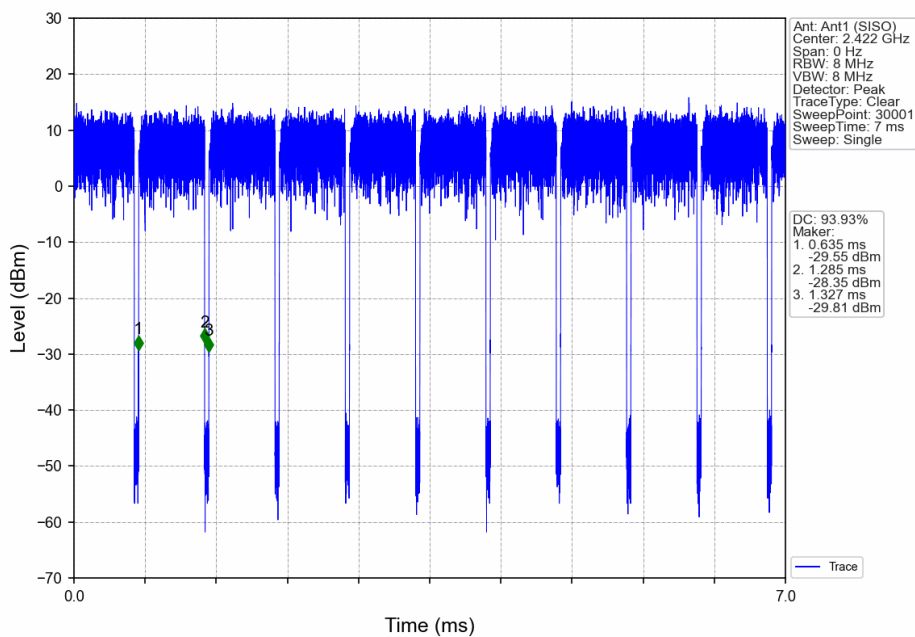
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



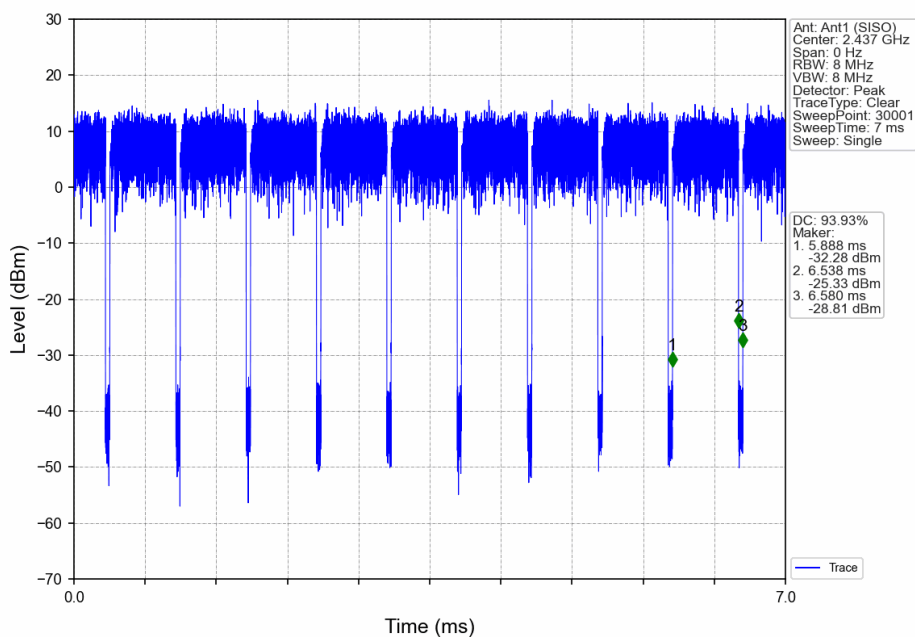
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



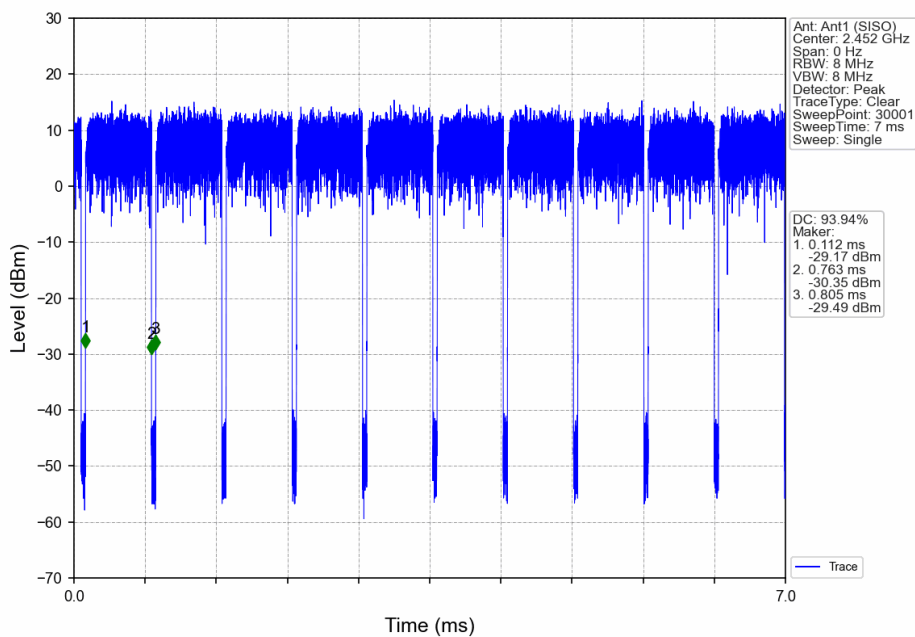
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



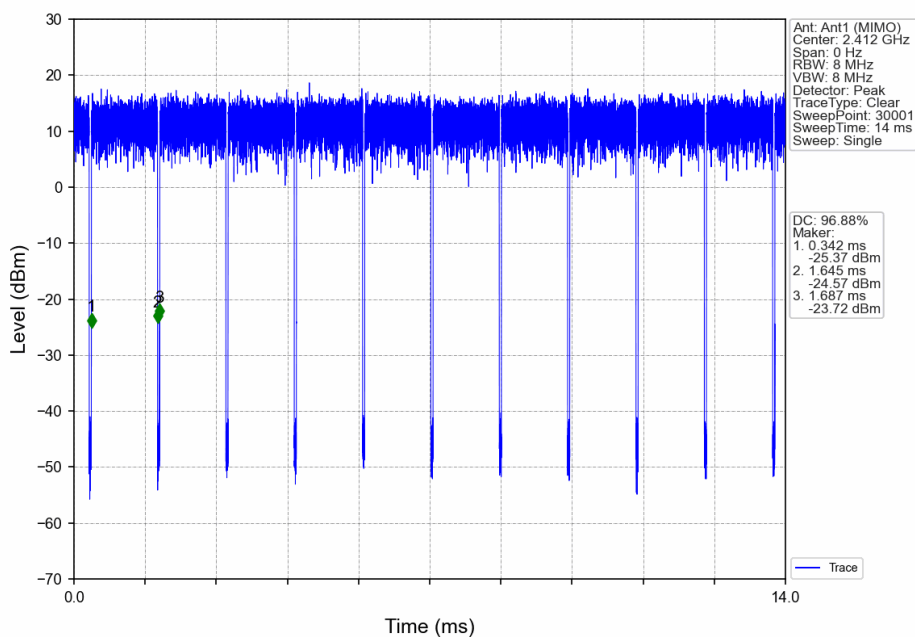
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



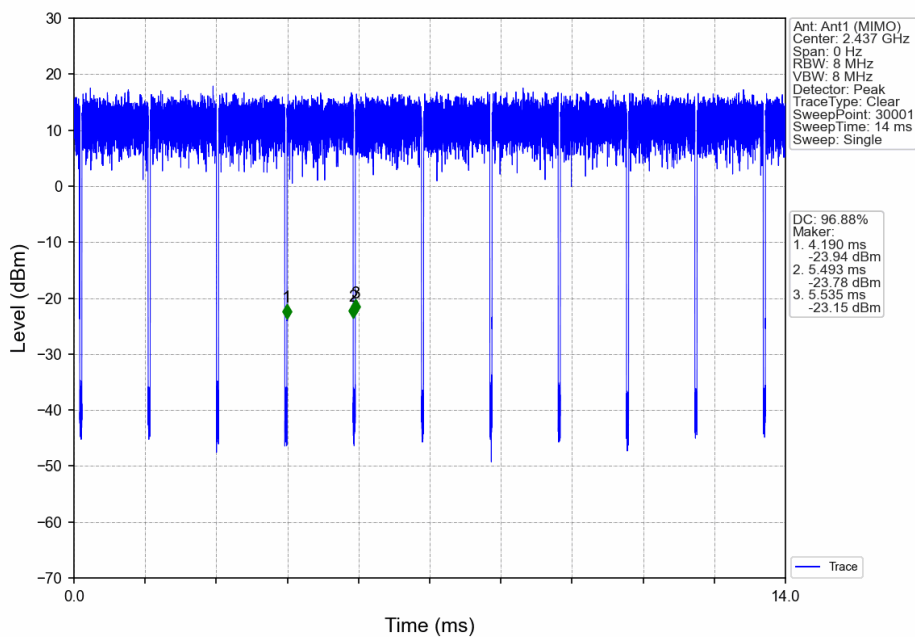
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



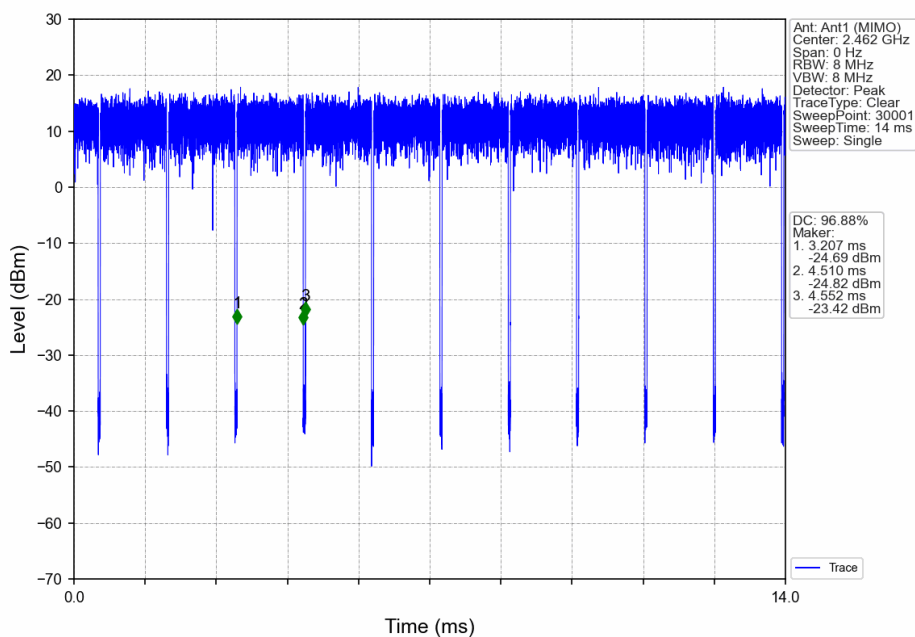
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



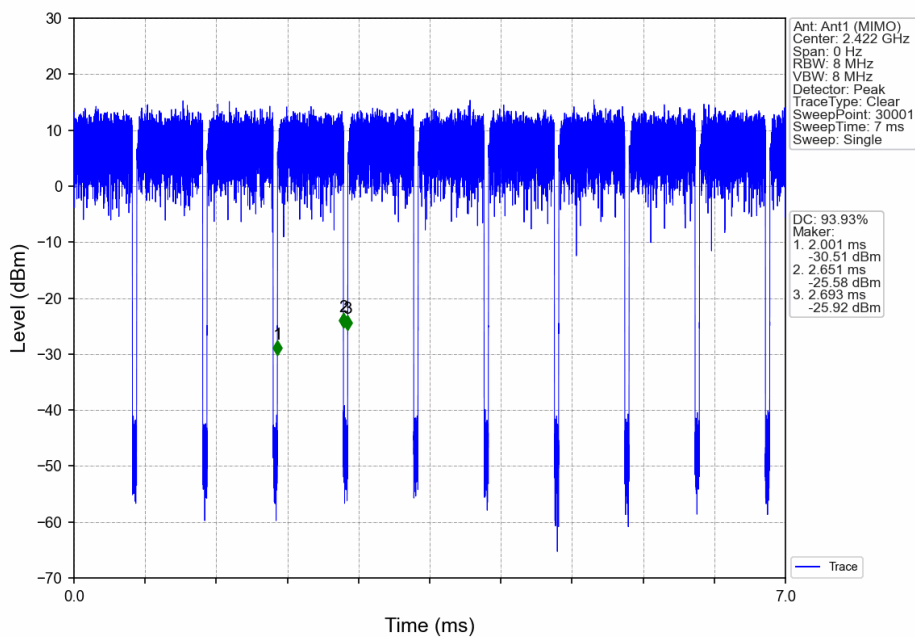
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



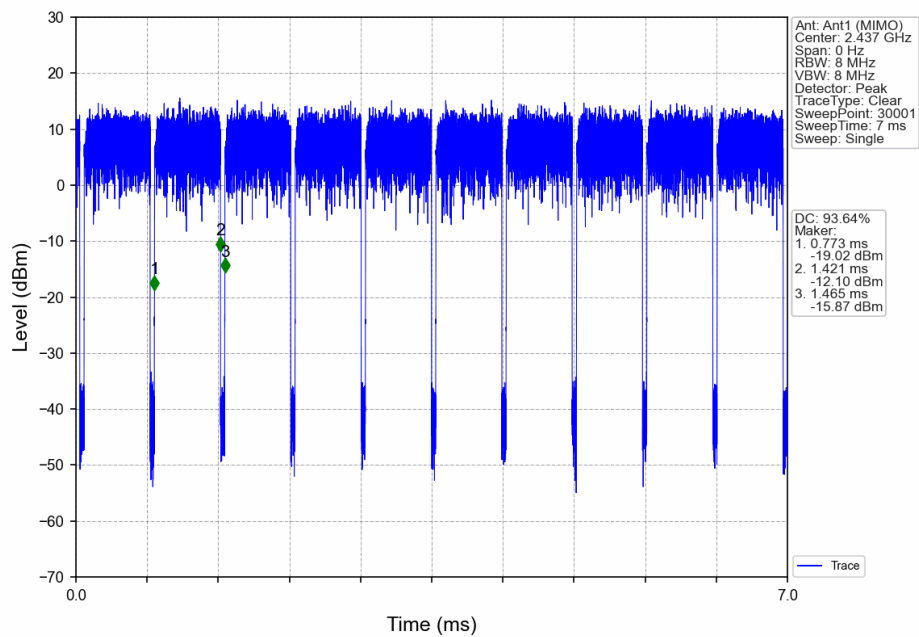
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



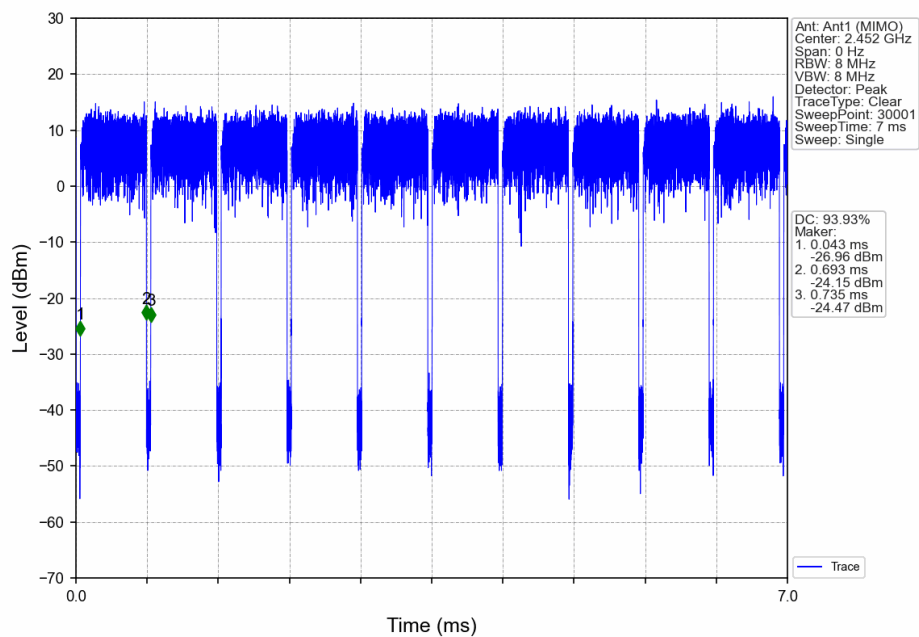
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



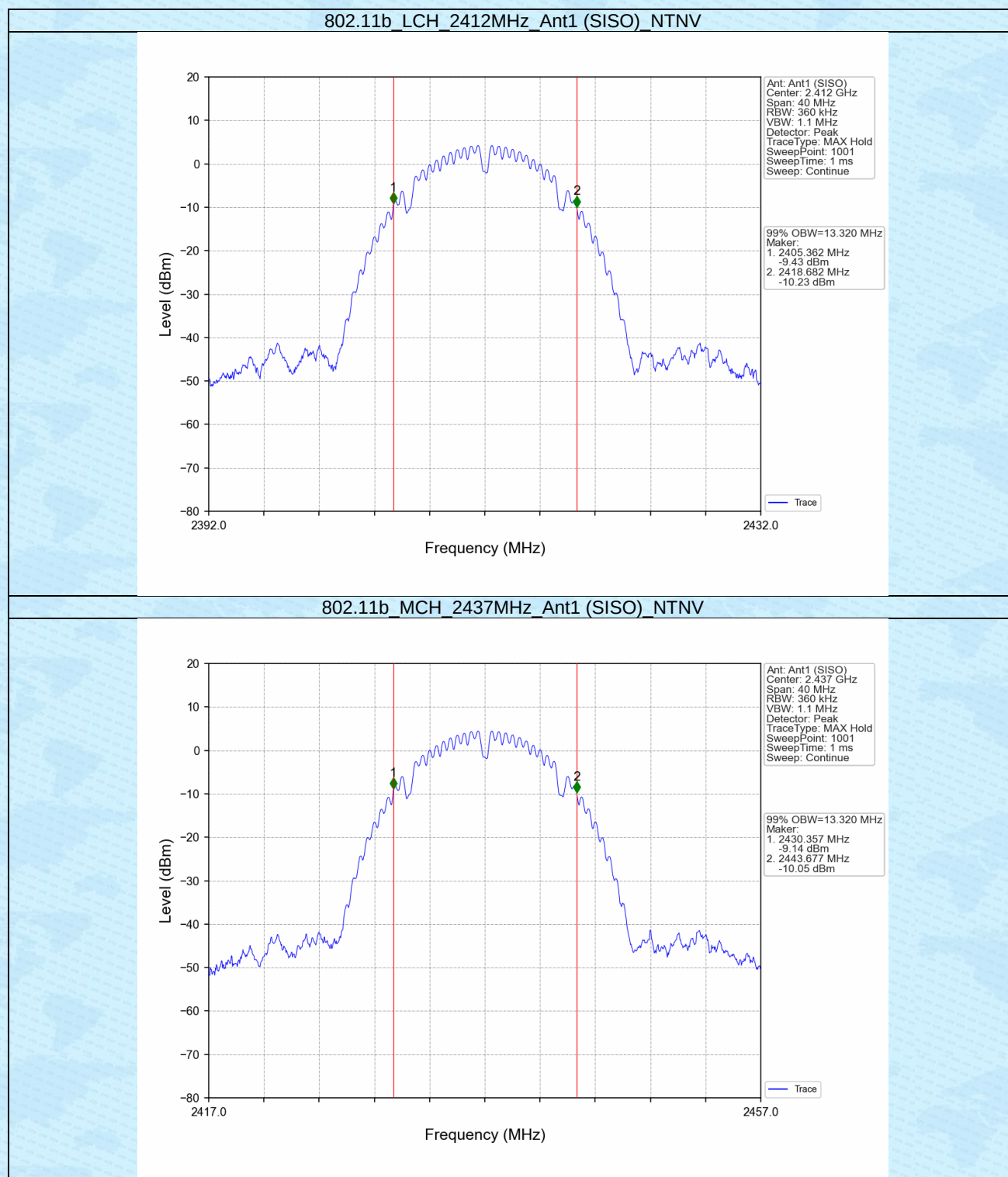
2. Bandwidth

2.1 OBW

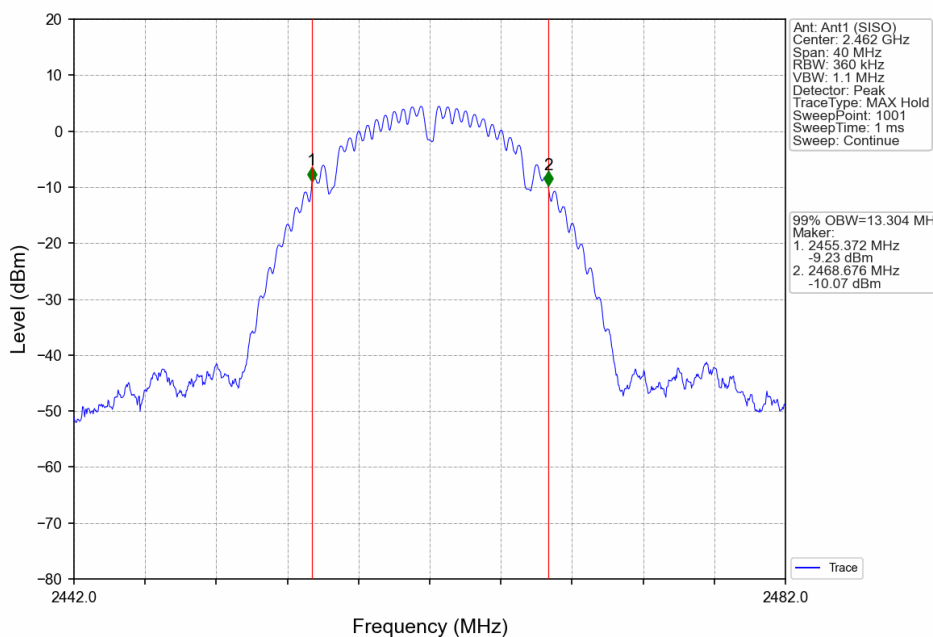
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.320	Pass
		2437	1	13.320	Pass
		2462	1	13.304	Pass
802.11g	SISO	2412	1	17.386	Pass
		2437	1	17.390	Pass
		2462	1	17.336	Pass
802.11n (HT20)	SISO	2412	1	18.163	Pass
		2437	1	18.146	Pass
		2462	1	18.180	Pass
802.11n (HT40)	SISO	2422	1	36.358	Pass
		2437	1	36.337	Pass
		2452	1	36.405	Pass
802.11n (HT20)	MIMO	2412	1	18.093	Pass
		2437	1	18.205	Pass
		2462	1	18.150	Pass
802.11n (HT40)	MIMO	2422	1	36.407	Pass
		2437	1	36.333	Pass
		2452	1	36.487	Pass

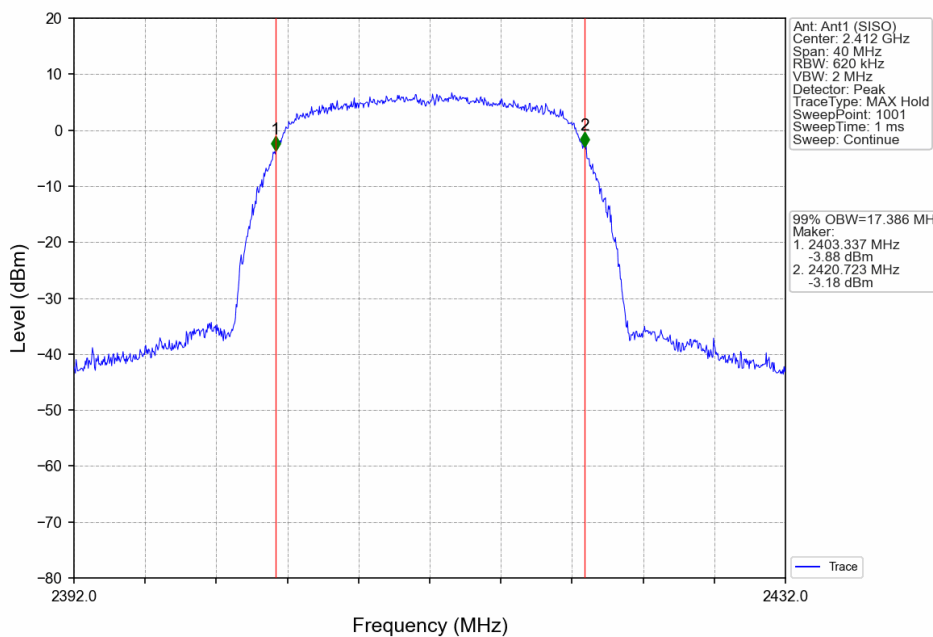
2.1.2 Test Graph



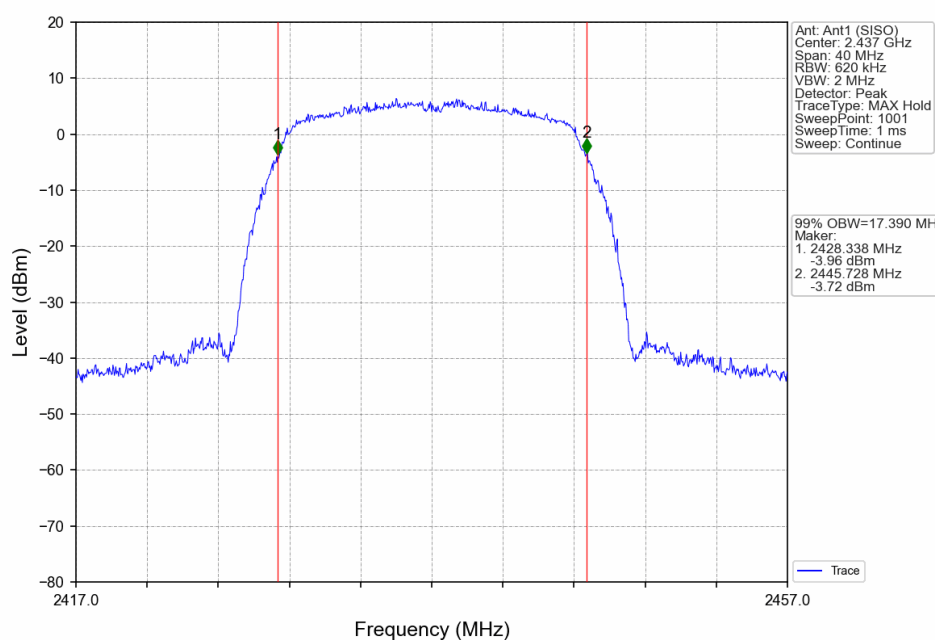
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



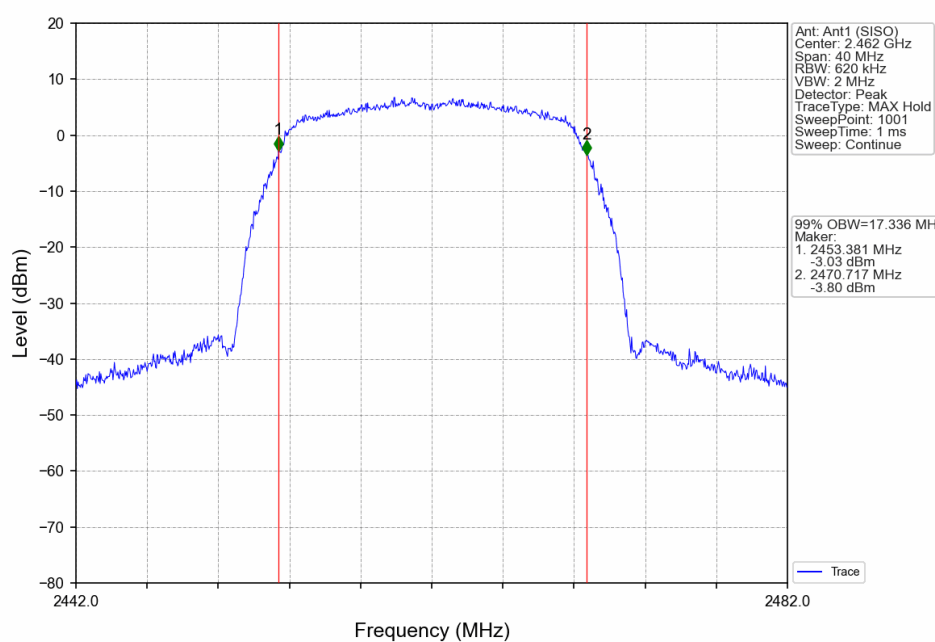
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



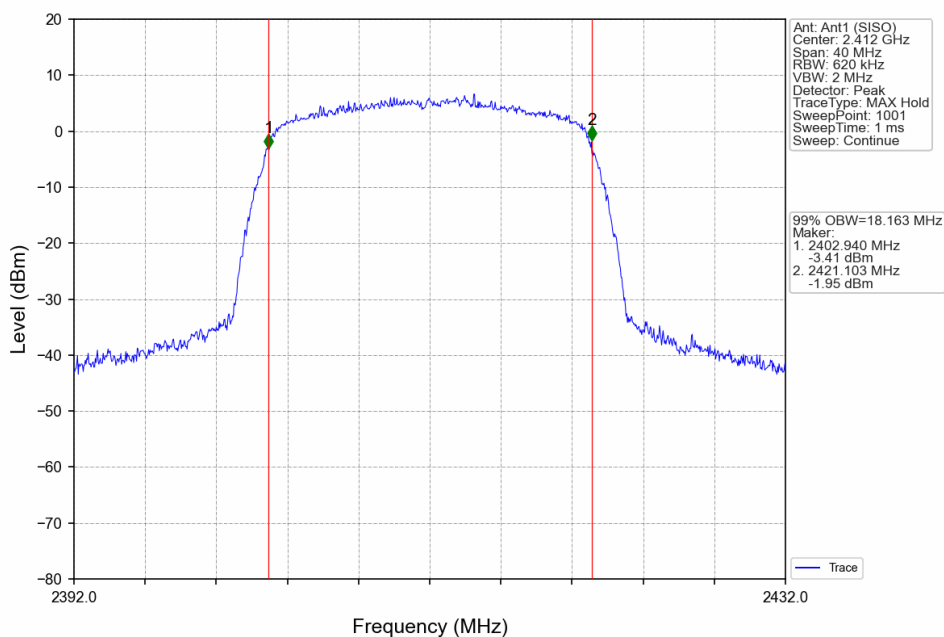
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



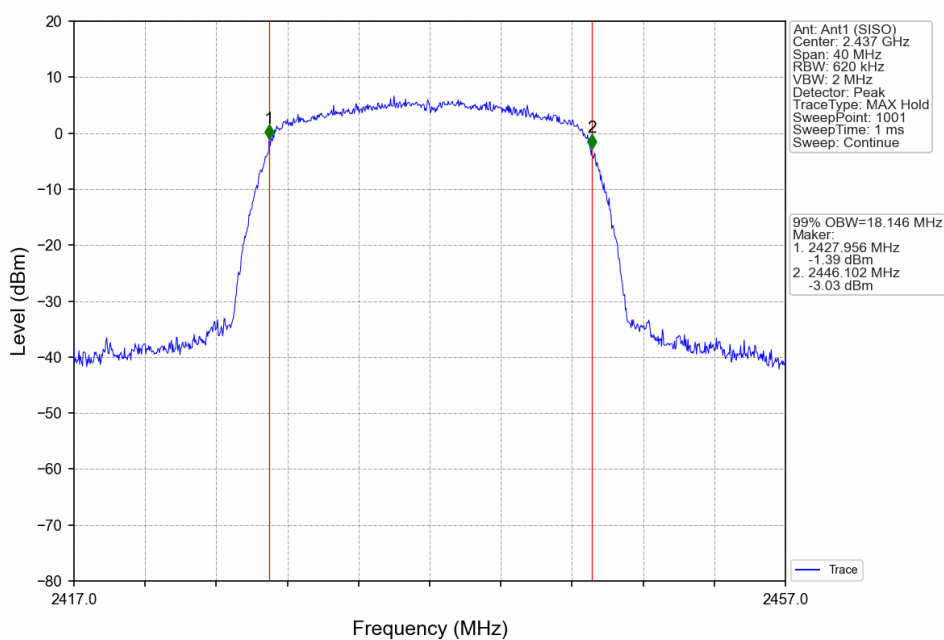
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



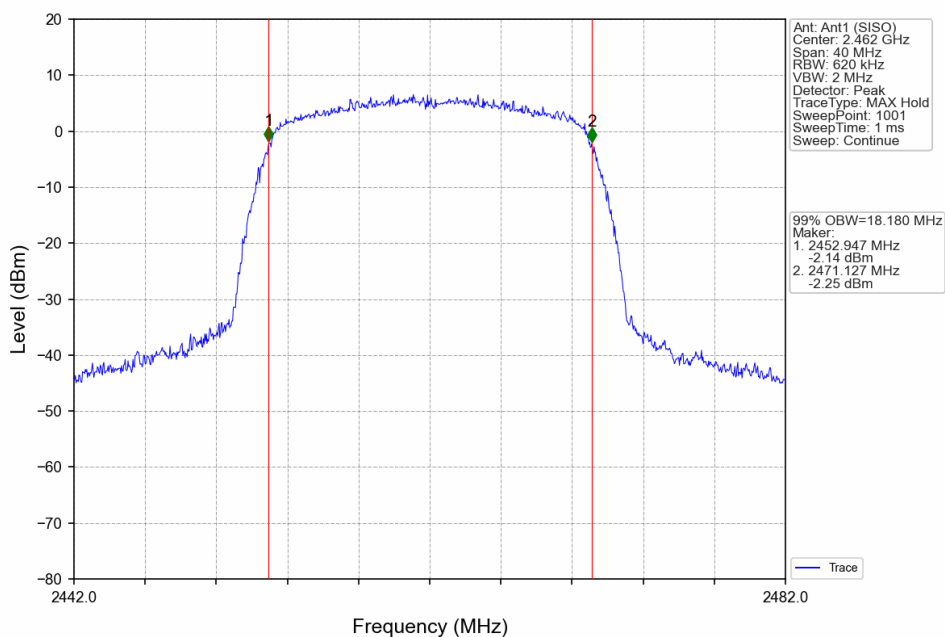
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



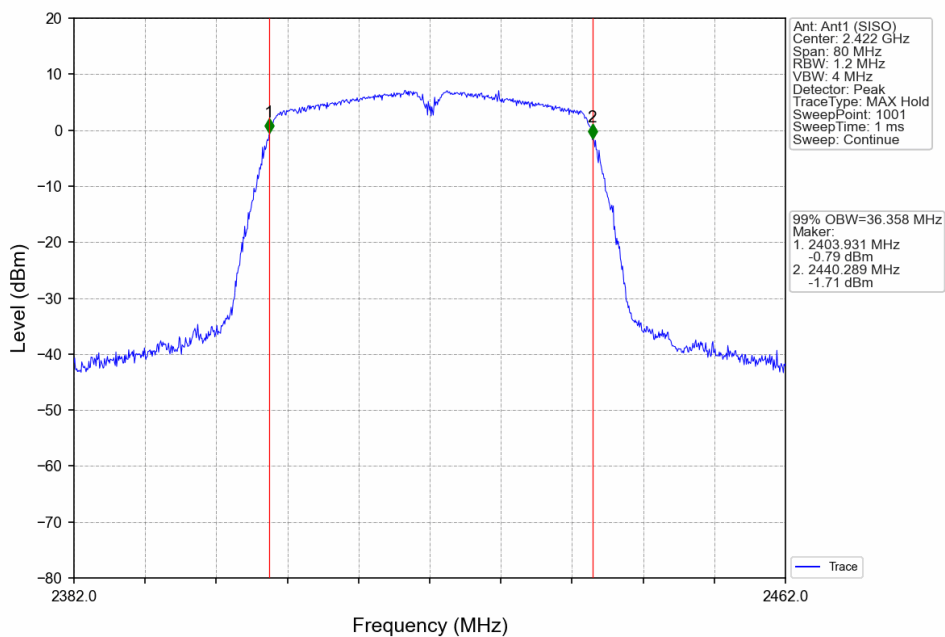
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



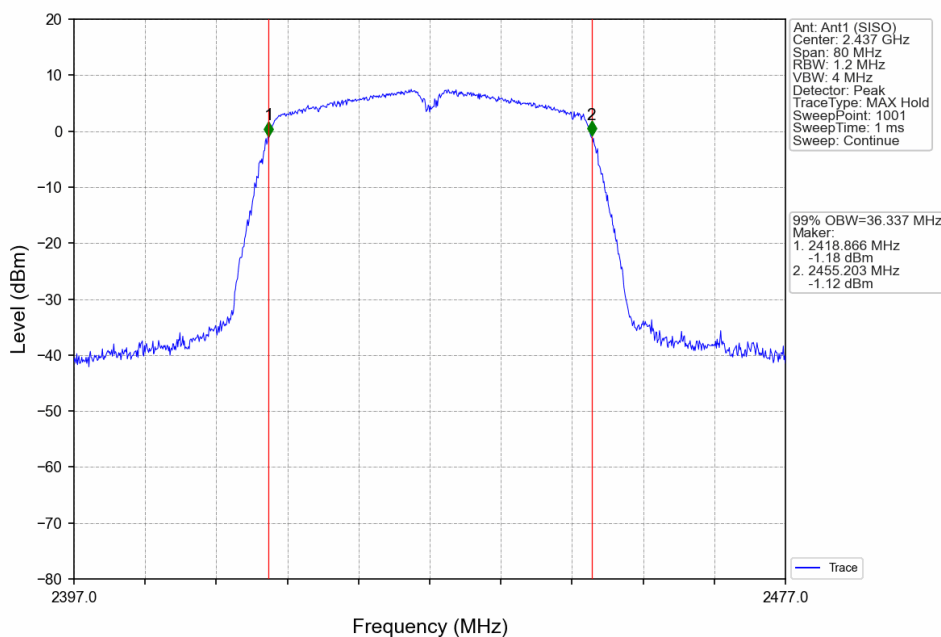
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



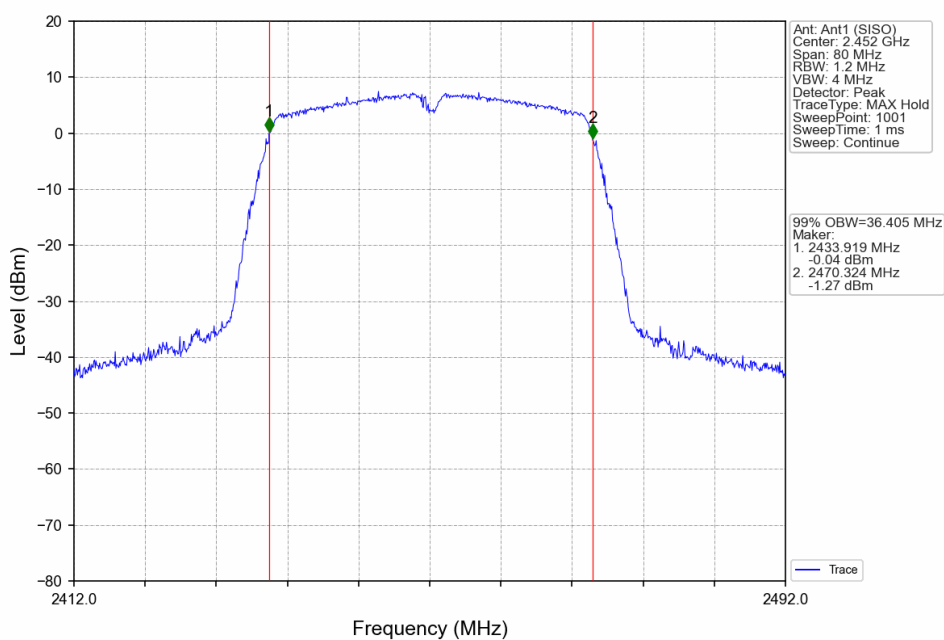
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



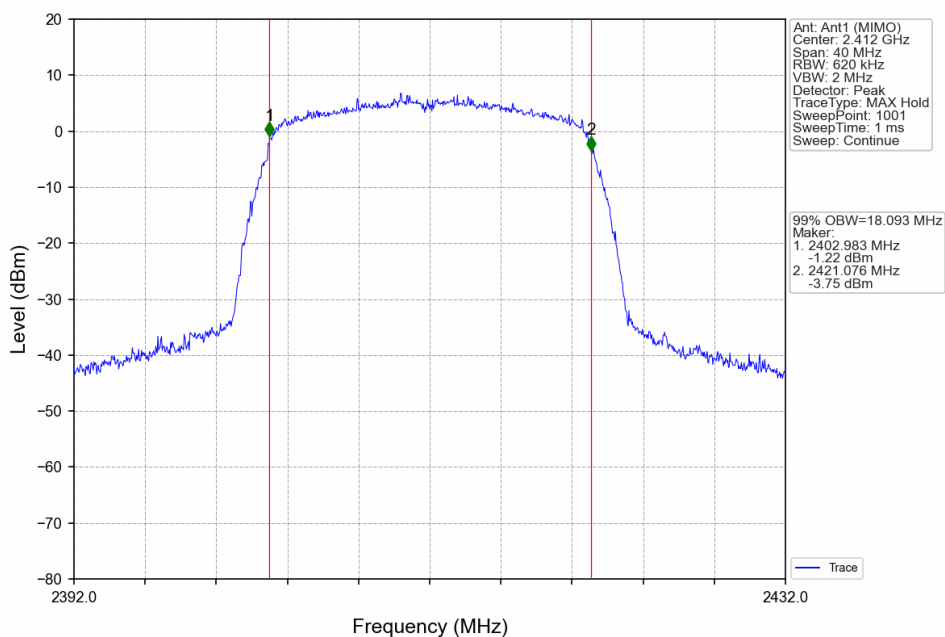
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



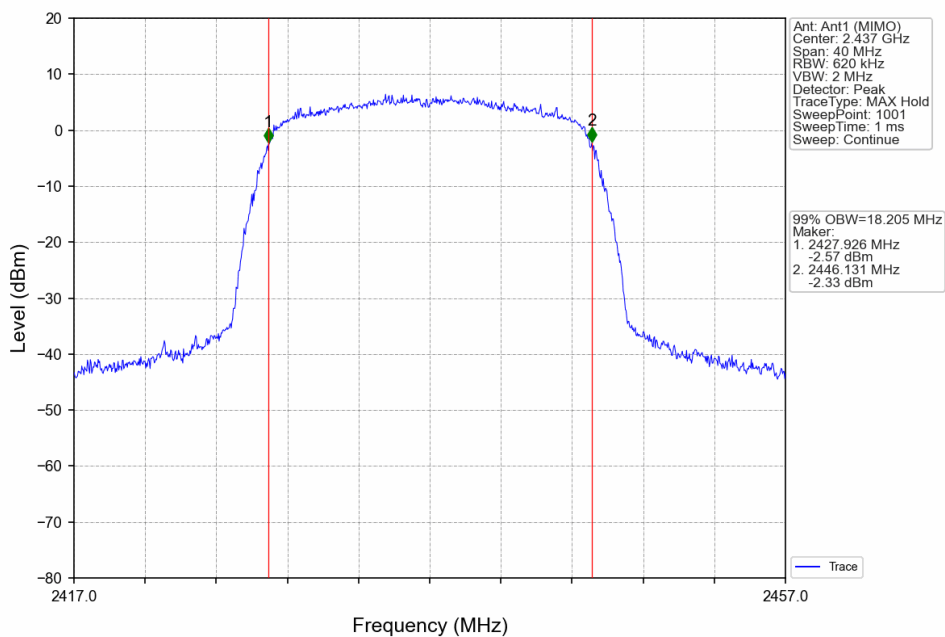
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



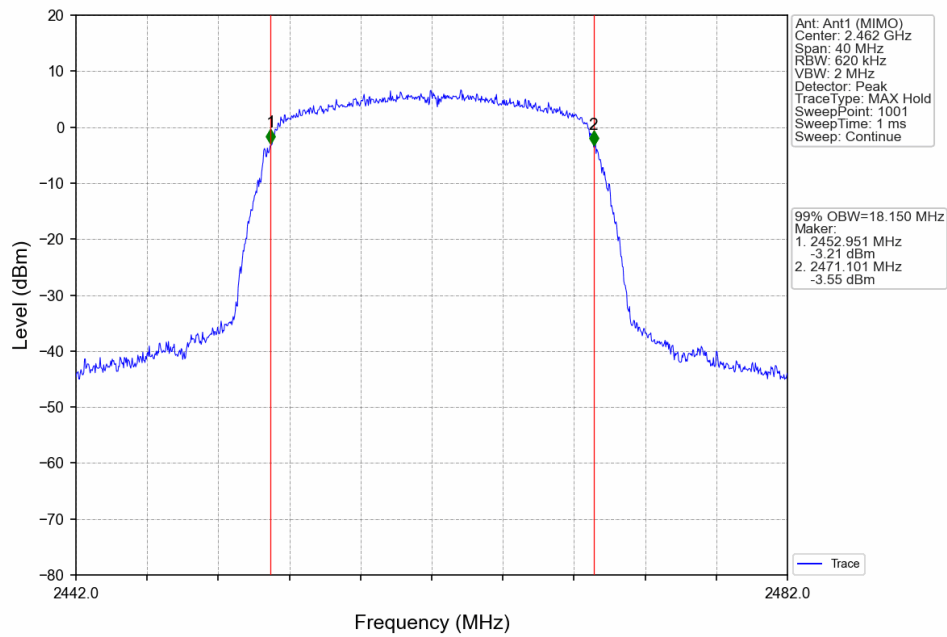
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



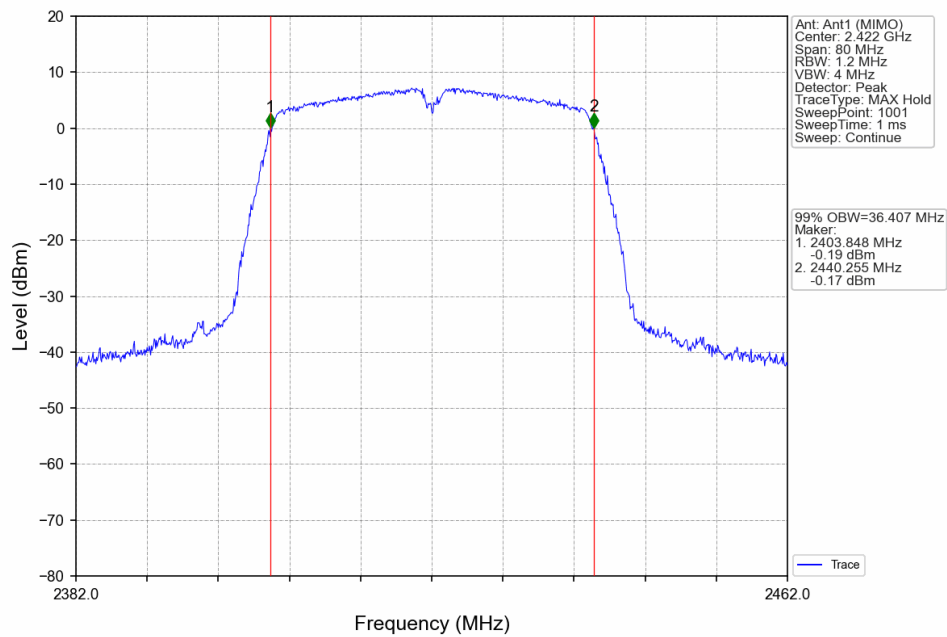
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



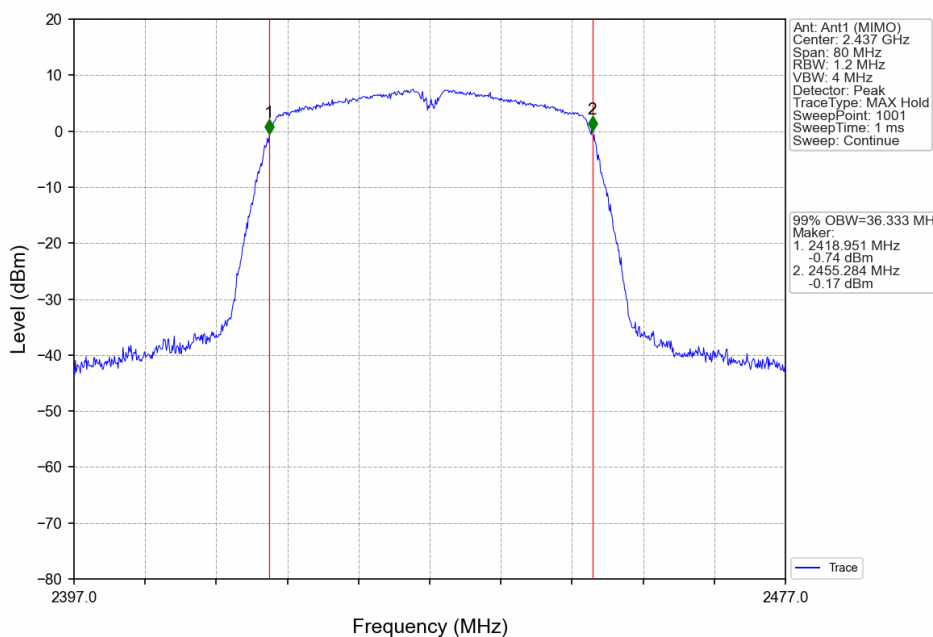
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



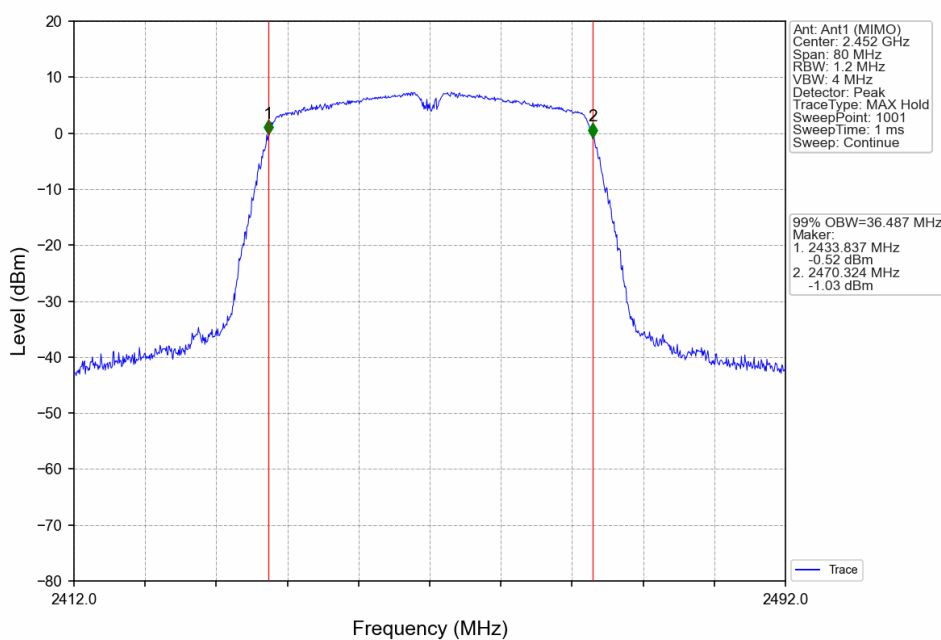
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV

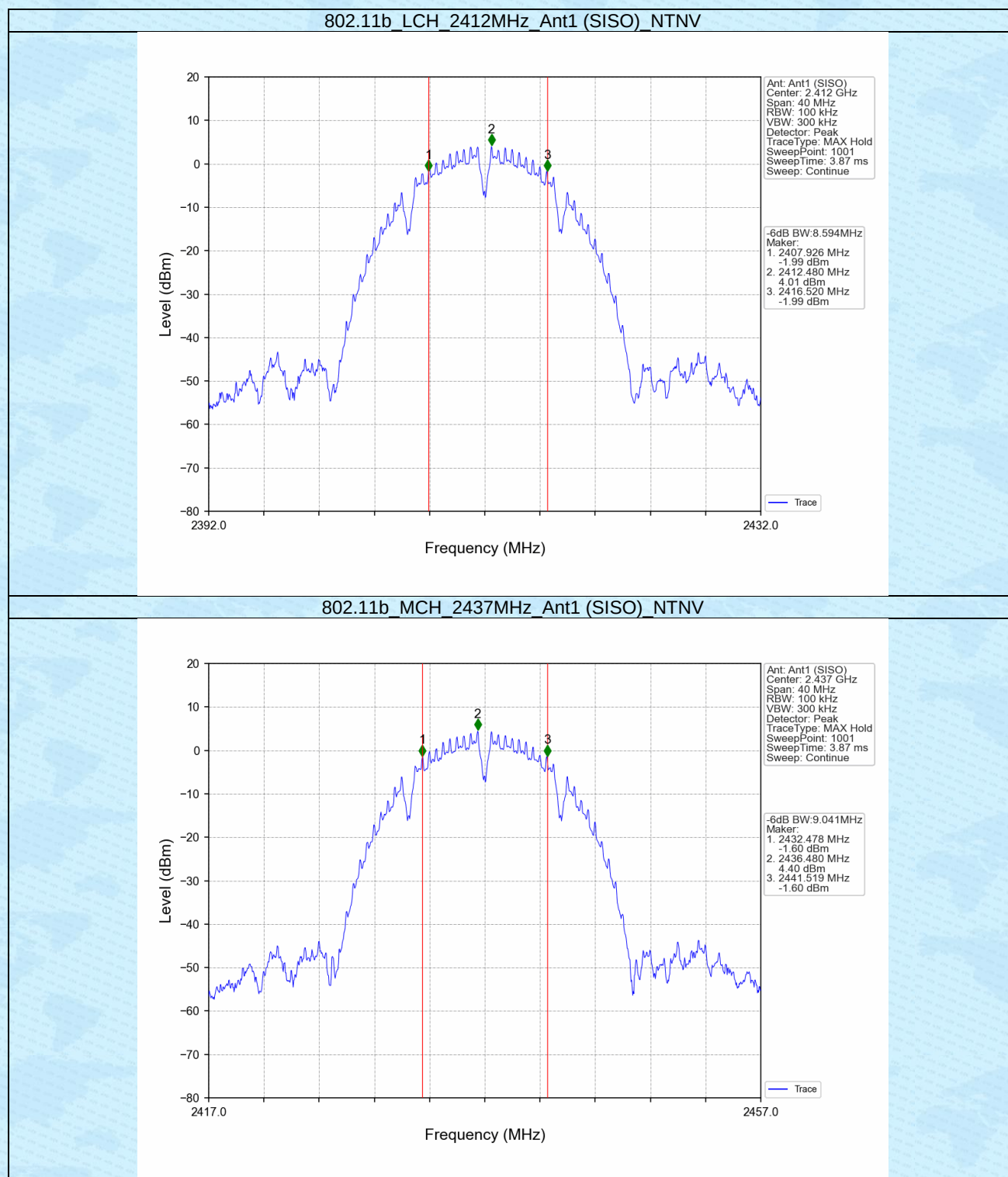


2.2 6dB BW

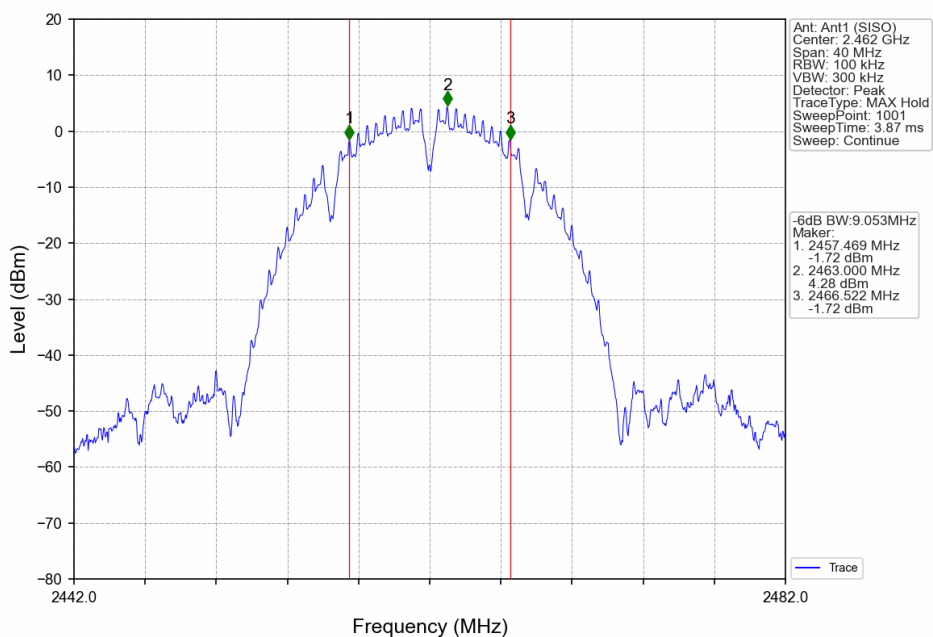
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.594	≥ 0.5	Pass
		2437	1	9.041	≥ 0.5	Pass
		2462	1	9.053	≥ 0.5	Pass
802.11g	SISO	2412	1	15.178	≥ 0.5	Pass
		2437	1	15.160	≥ 0.5	Pass
		2462	1	15.164	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.140	≥ 0.5	Pass
		2437	1	15.171	≥ 0.5	Pass
		2462	1	15.161	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.158	≥ 0.5	Pass
		2437	1	35.140	≥ 0.5	Pass
		2452	1	35.158	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.160	≥ 0.5	Pass
		2437	1	15.158	≥ 0.5	Pass
		2462	1	15.153	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.161	≥ 0.5	Pass
		2437	1	35.139	≥ 0.5	Pass
		2452	1	35.164	≥ 0.5	Pass

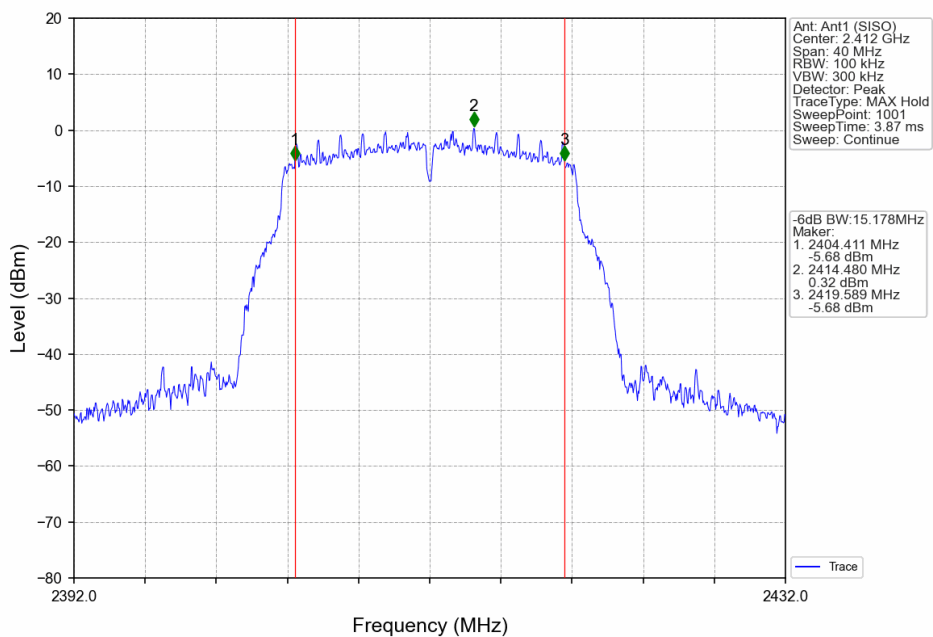
2.2.2 Test Graph



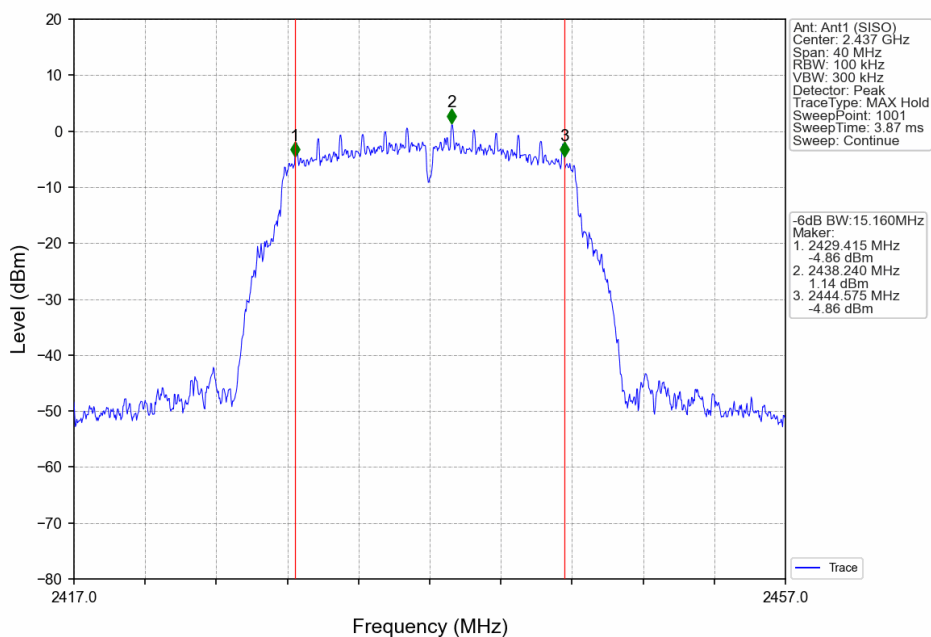
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



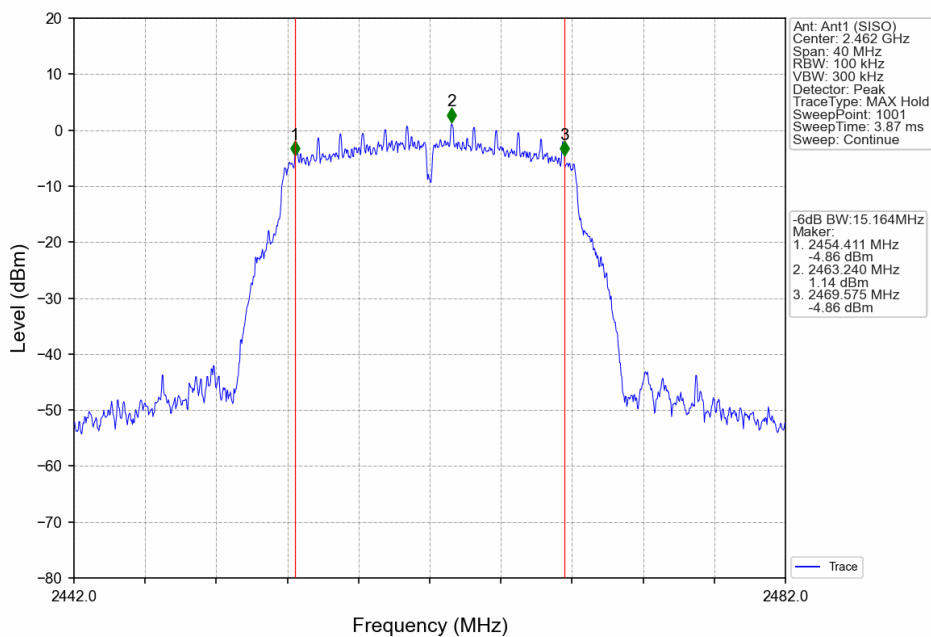
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



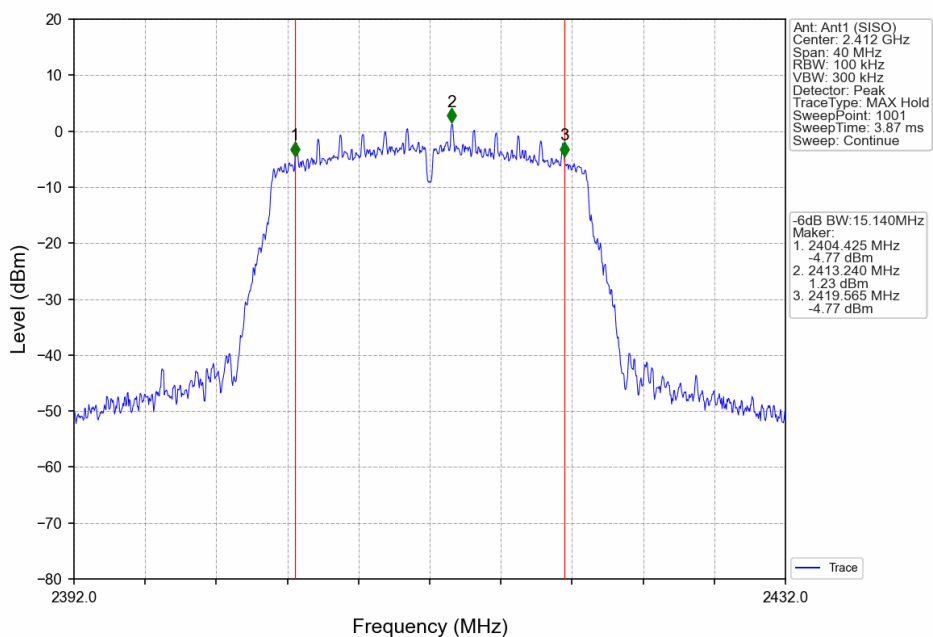
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



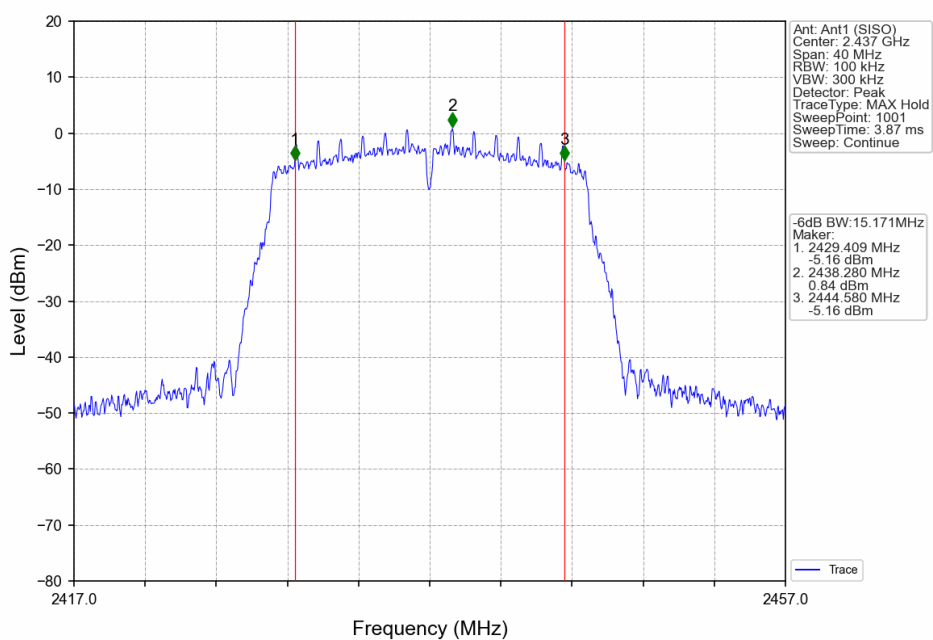
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



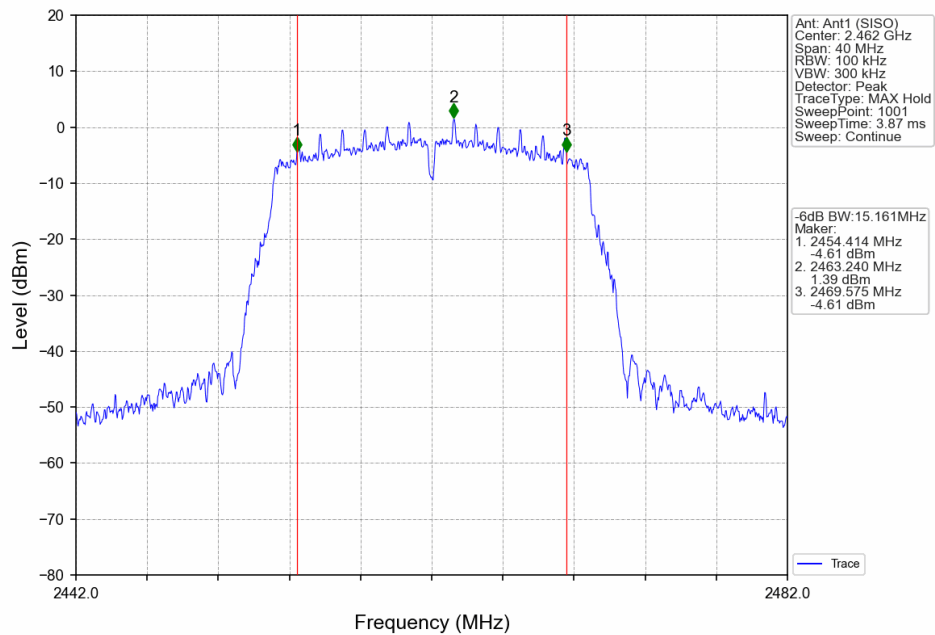
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



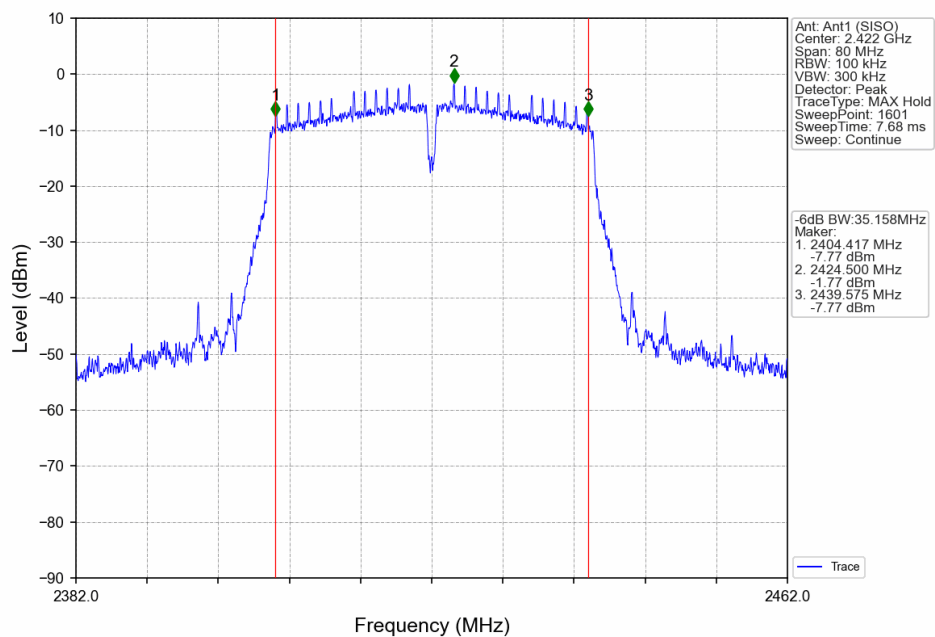
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



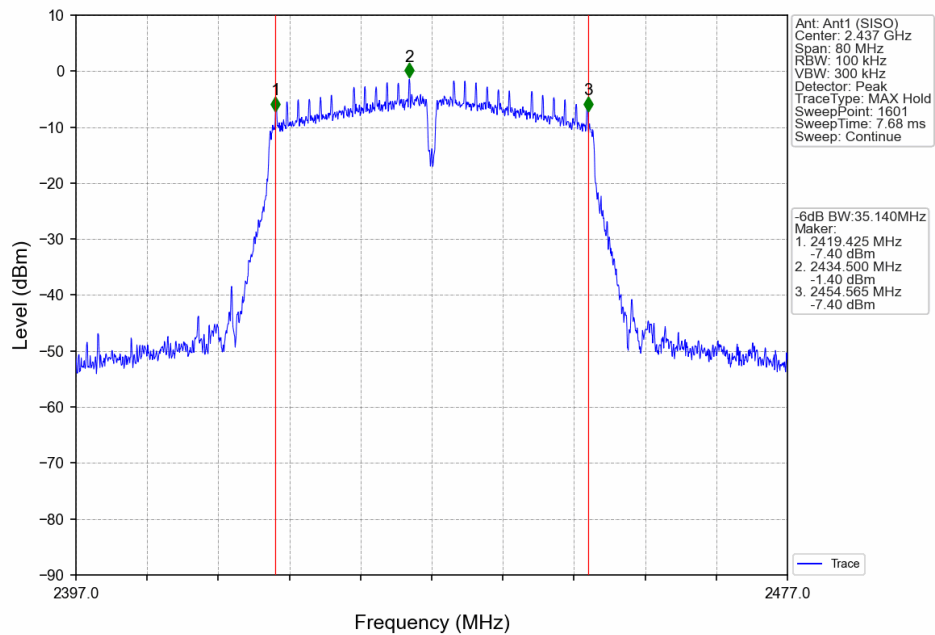
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



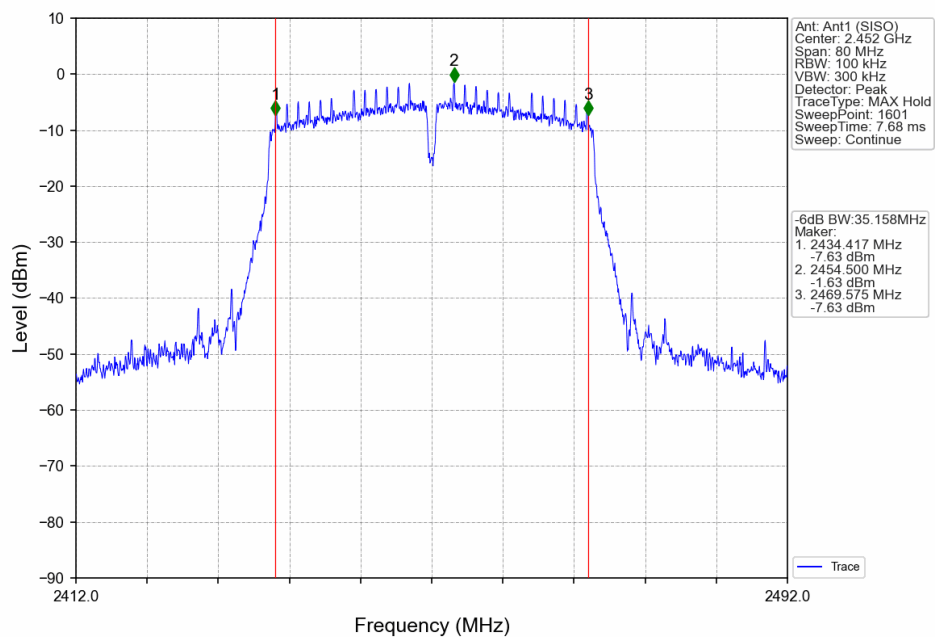
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



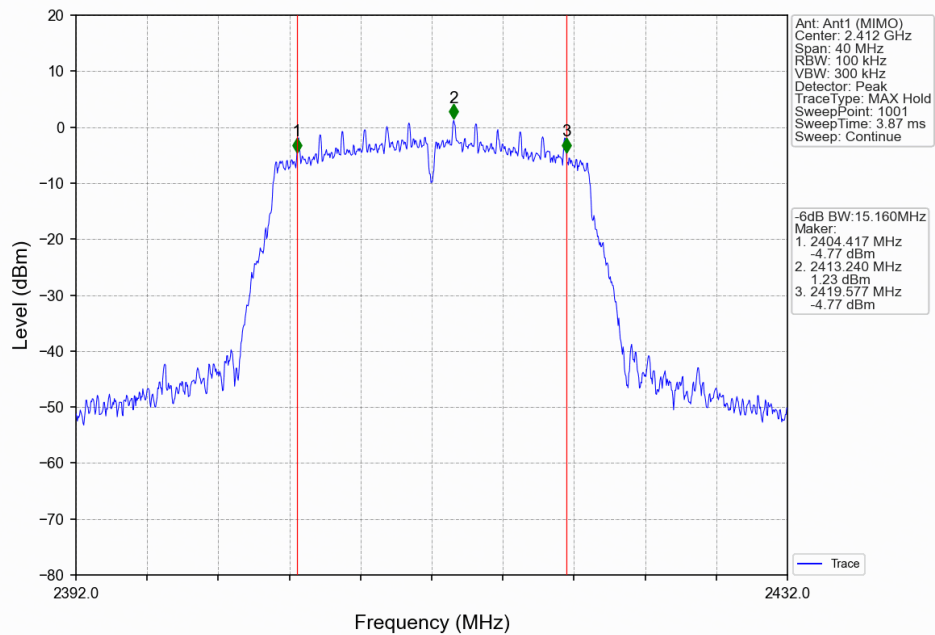
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



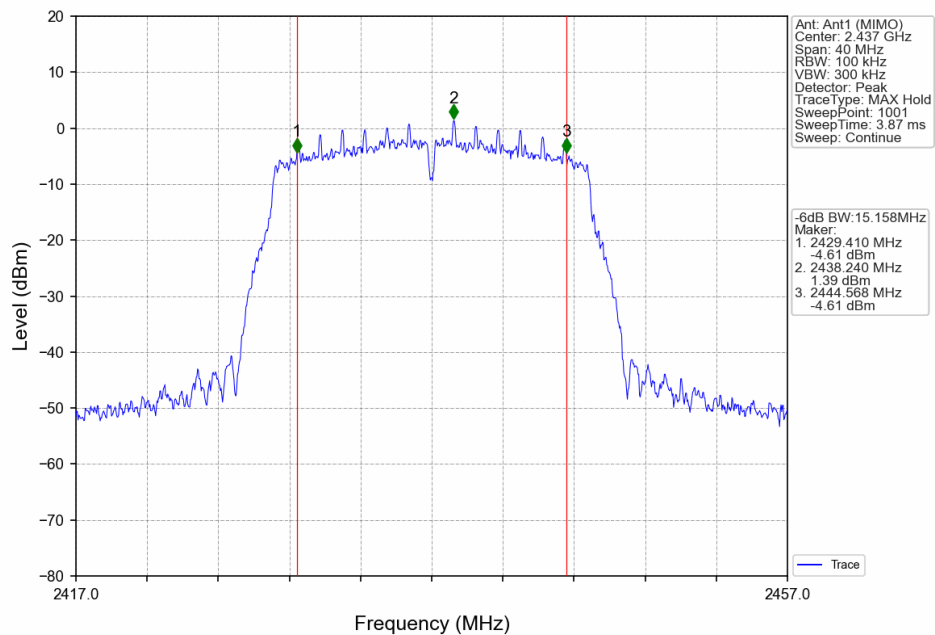
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



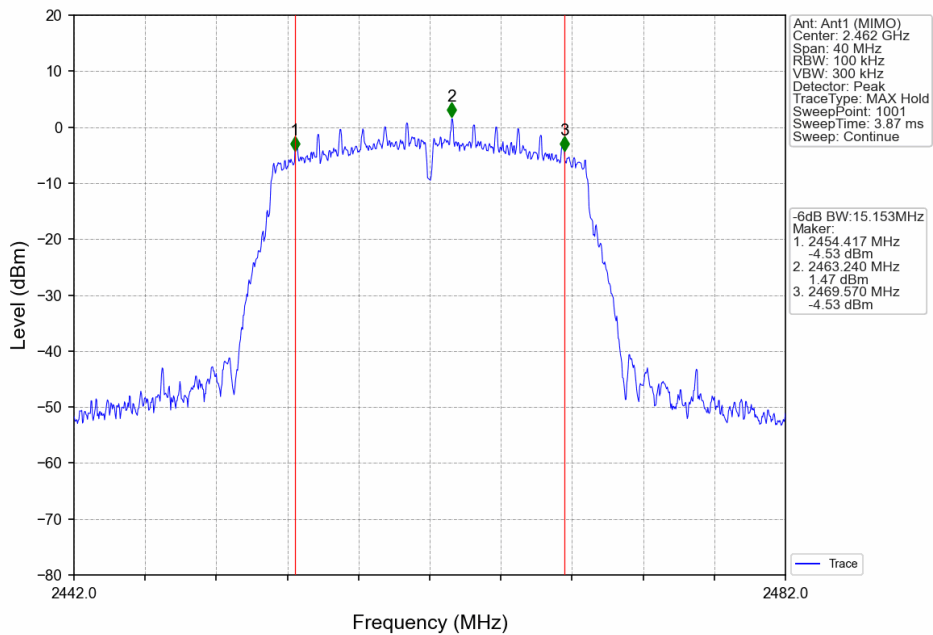
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



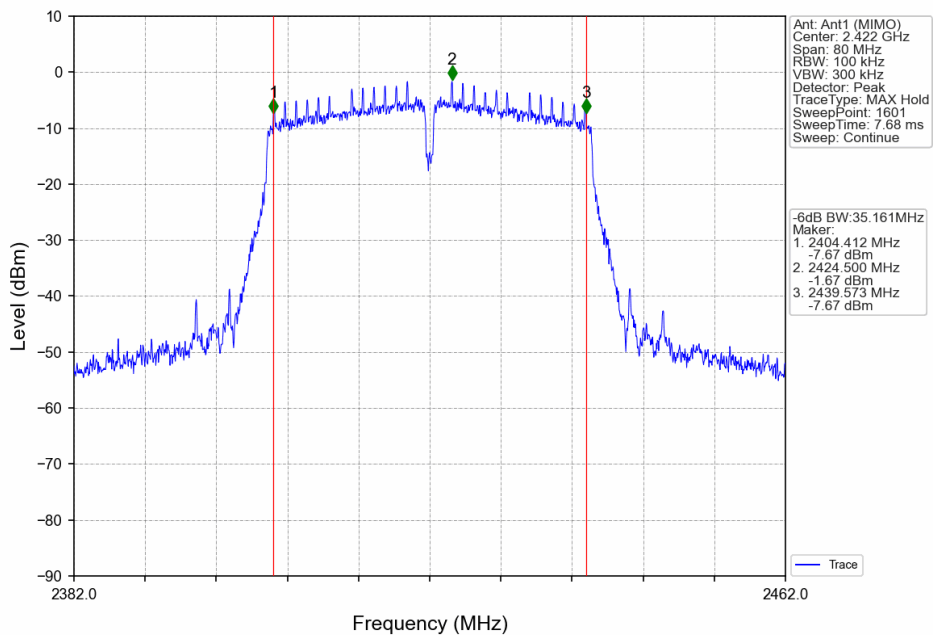
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



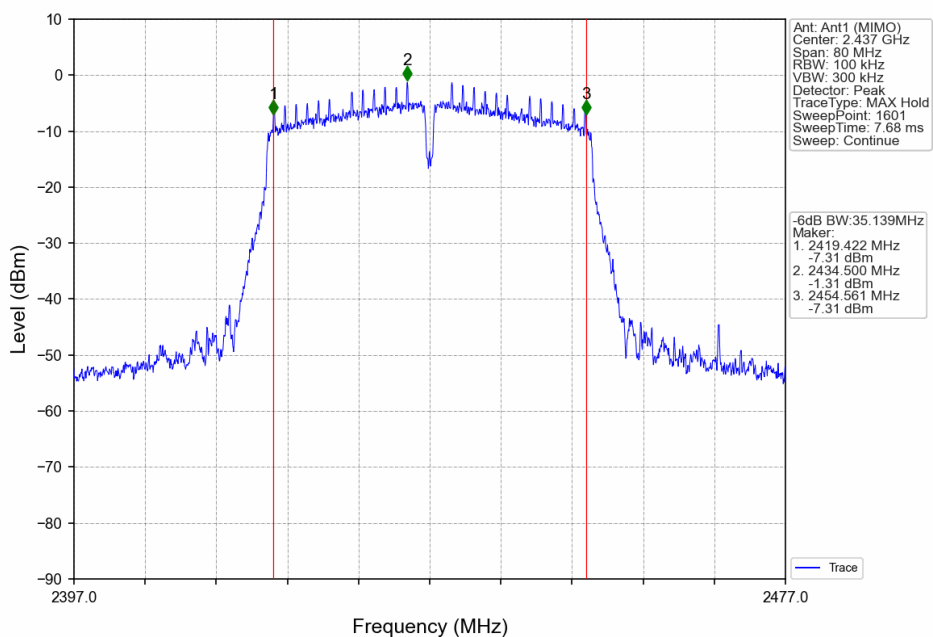
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



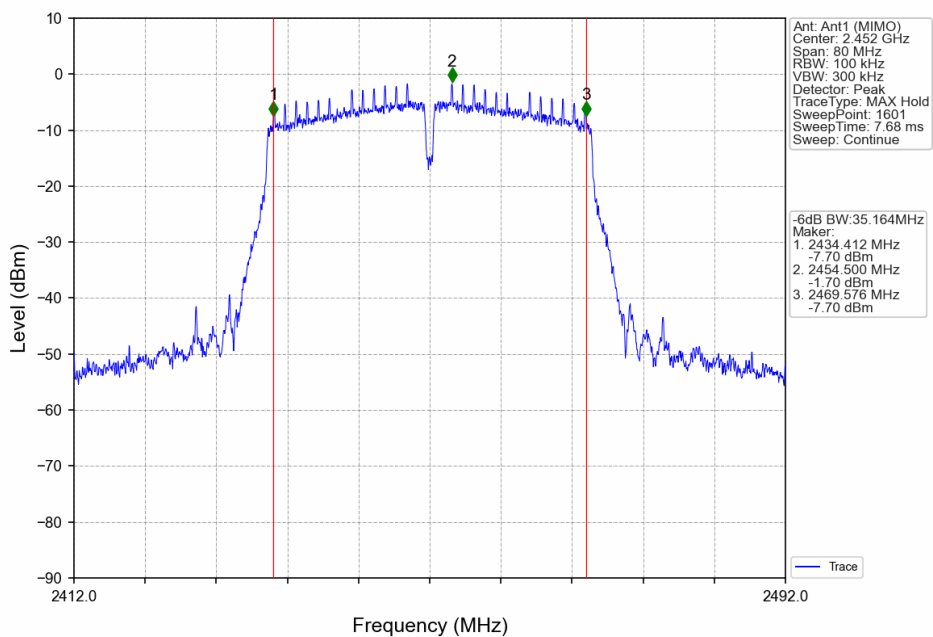
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_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	ANT2	MIMO	Limit	
802.11b	SISO	2412	14.68	12.28	/	<=30	Pass
		2437	15.01	12.62	/	<=30	Pass
		2462	15.01	17.50	/	<=30	Pass
802.11g	SISO	2412	18.73	16.63	/	<=30	Pass
		2437	18.70	16.85	/	<=30	Pass
		2462	18.93	16.91	/	<=30	Pass
802.11n (HT20)	SISO	2412	18.57	16.40	/	<=30	Pass
		2437	18.51	16.54	/	<=30	Pass
		2462	18.70	16.63	/	<=30	Pass
802.11n (HT40)	SISO	2422	18.99	17.04	/	<=30	Pass
		2437	19.10	17.03	/	<=30	Pass
		2452	19.18	17.10	/	<=30	Pass
802.11n (HT20)	MIMO	2412	18.64	17.02	20.92	<=28.98	Pass
		2437	18.62	17.15	20.96	<=28.98	Pass
		2462	18.73	17.18	21.03	<=28.98	Pass
802.11n (HT40)	MIMO	2422	19.01	17.65	21.39	<=28.98	Pass
		2437	19.10	17.83	21.52	<=28.98	Pass
		2452	19.22	17.78	21.57	<=28.98	Pass
Note1: Antenna Gain: Ant1: 3.12dBi; Ant2: 4.82dBi; Note2: Directional Gain: correlated(Directional Gain = 7.02dBi)							

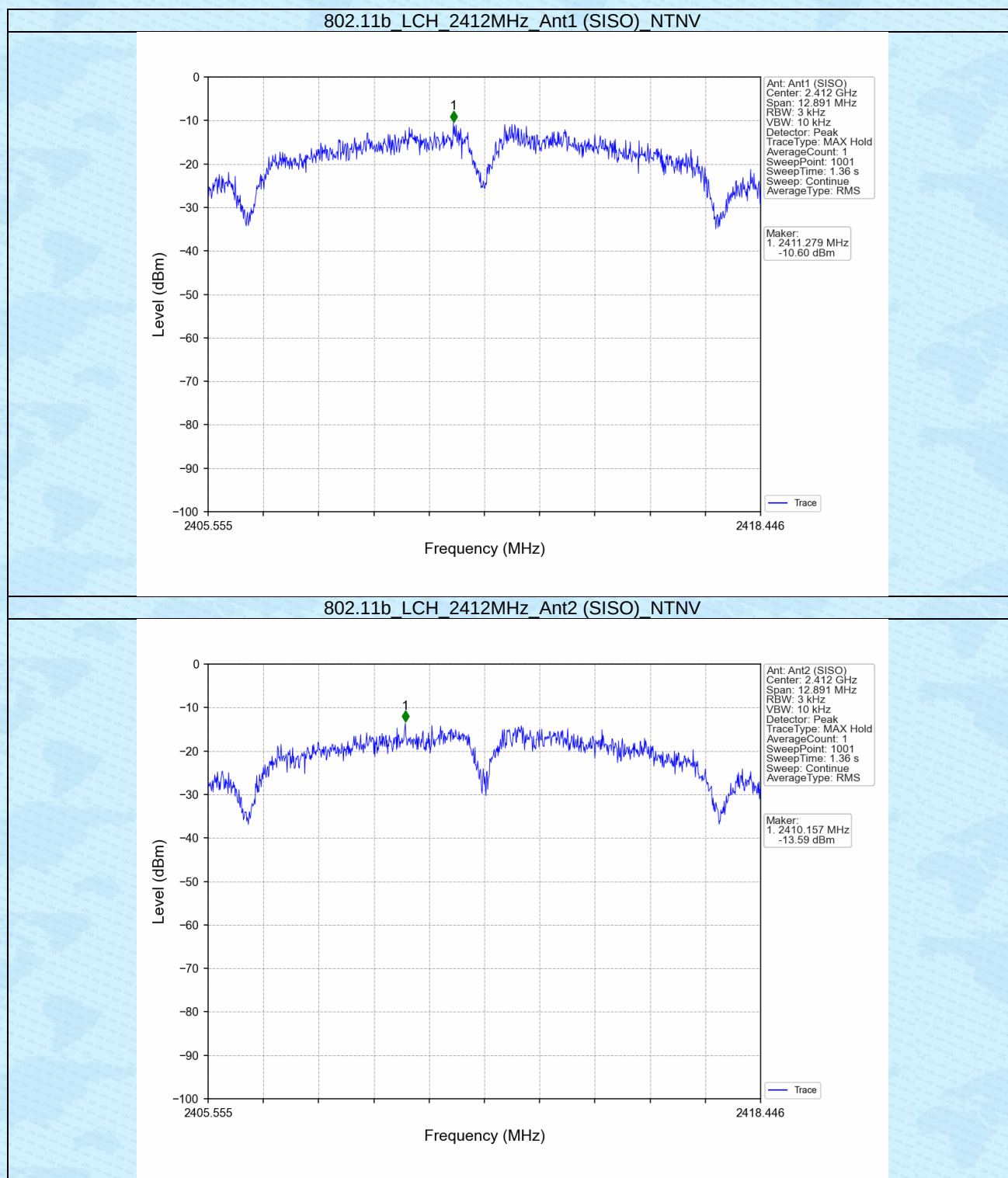
4. Maximum Power Spectral Density

4.1 PSD

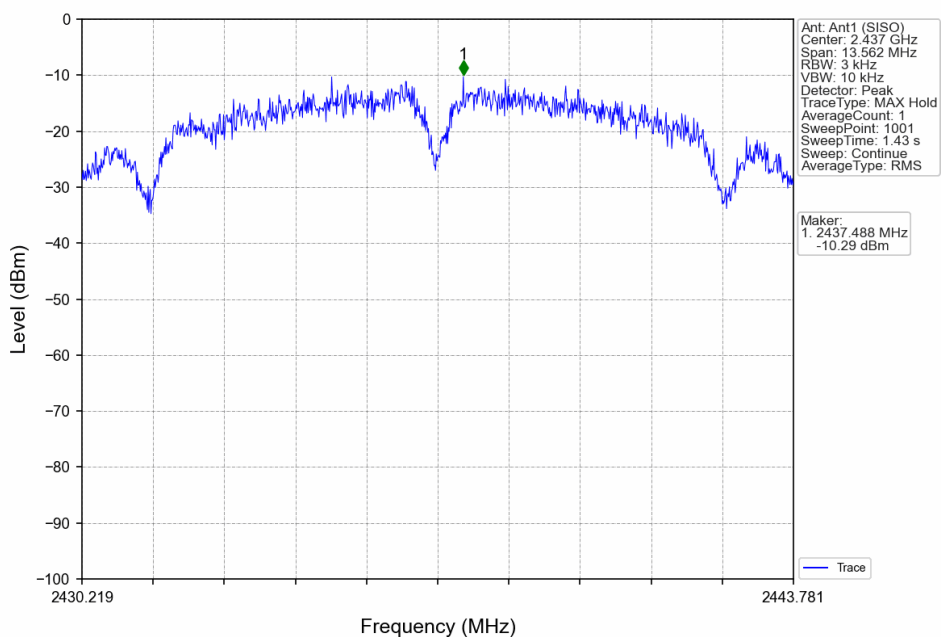
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-10.60	-13.59	/	<=8	Pass
		2437	-10.29	-11.23	/	<=8	Pass
		2462	-10.46	-8.18	/	<=8	Pass
802.11g	SISO	2412	-14.31	-15.48	/	<=8	Pass
		2437	-13.70	-15.30	/	<=8	Pass
		2462	-13.30	-14.37	/	<=8	Pass
802.11n (HT20)	SISO	2412	-13.09	-15.69	/	<=8	Pass
		2437	-14.50	-15.44	/	<=8	Pass
		2462	-13.98	-14.38	/	<=8	Pass
802.11n (HT40)	SISO	2422	-17.13	-19.13	/	<=8	Pass
		2437	-16.05	-17.41	/	<=8	Pass
		2452	-16.33	-18.99	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-13.68	-15.26	-12.51	<=6.98	Pass
		2437	-13.39	-15.98	-12.11	<=6.98	Pass
		2462	-12.96	-16.13	-12.08	<=6.98	Pass
802.11n (HT40)	MIMO	2422	-16.65	-18.50	-15.60	<=6.98	Pass
		2437	-16.39	-17.82	-14.77	<=6.98	Pass
		2452	-16.16	-17.84	-14.74	<=6.98	Pass
Note1: Antenna Gain: Ant1: 3.12dBi; Ant2: 4.82dBi; Note2: Directional Gain: correlated(Directional Gain = 7.02dBi)							

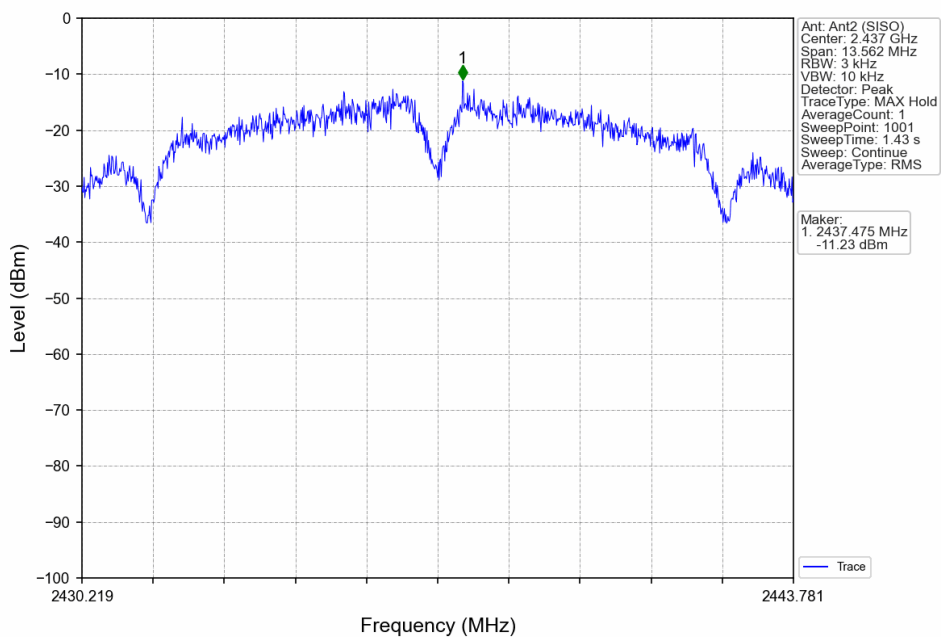
4.1.2 Test Graph



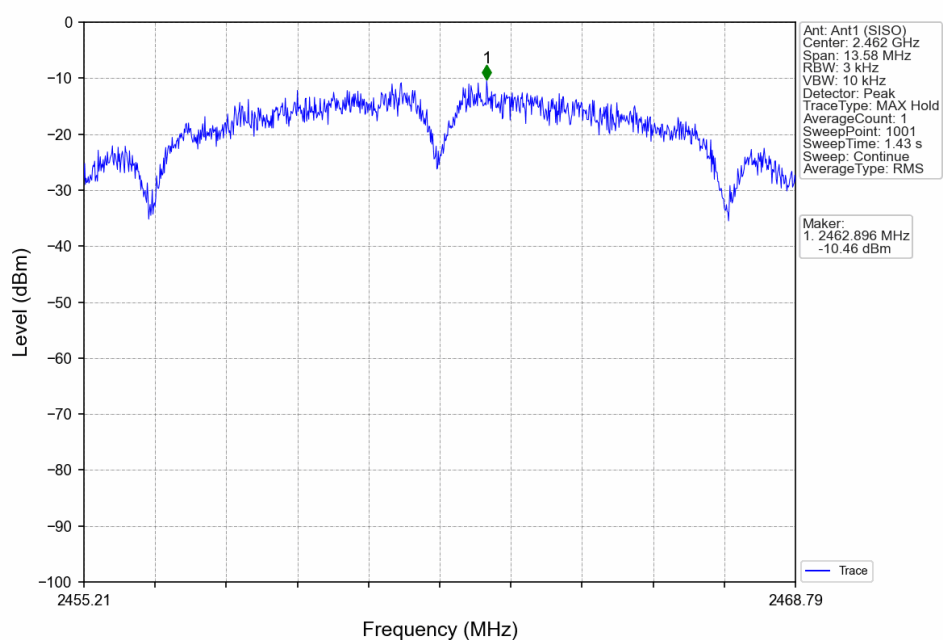
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



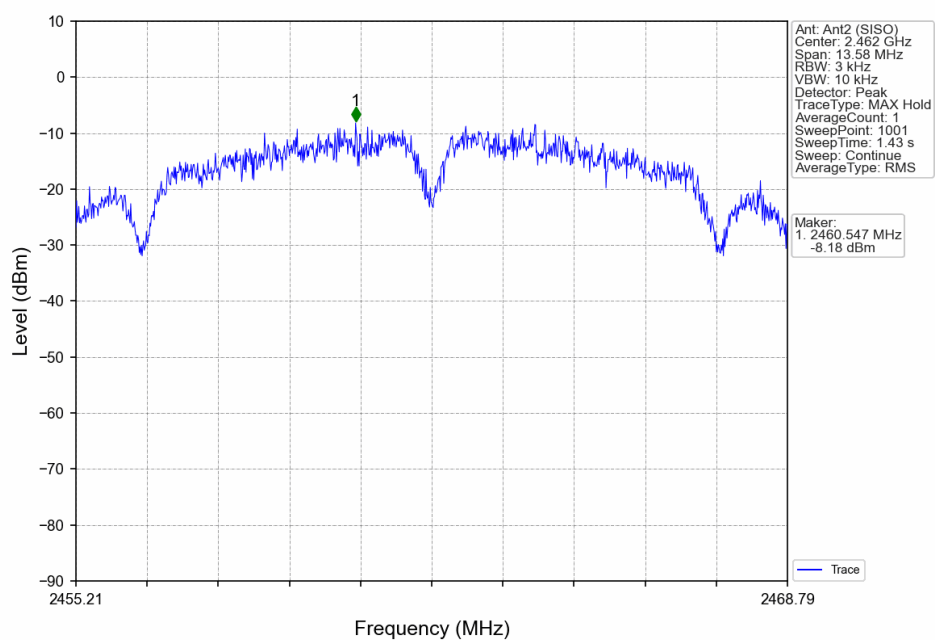
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



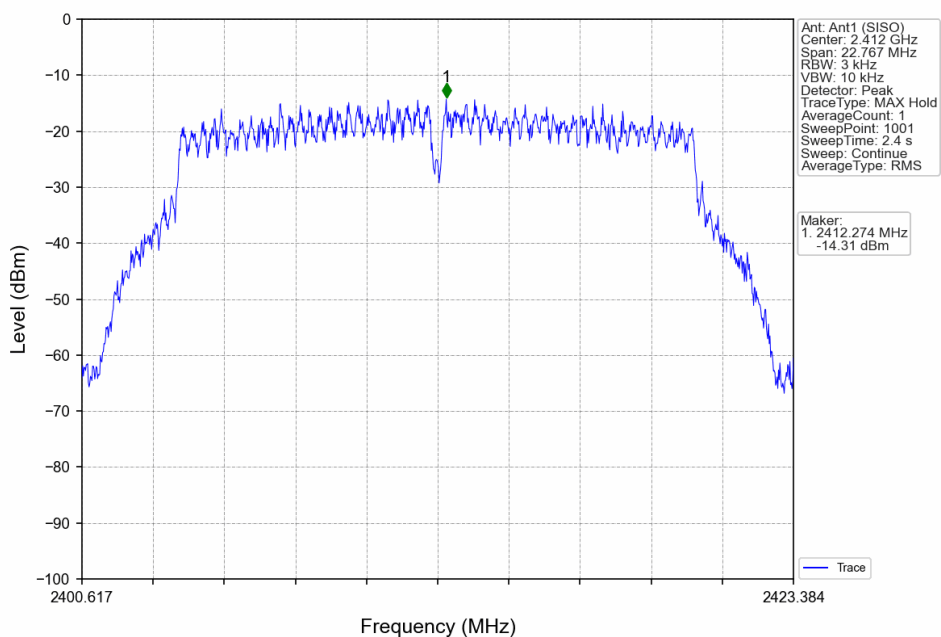
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



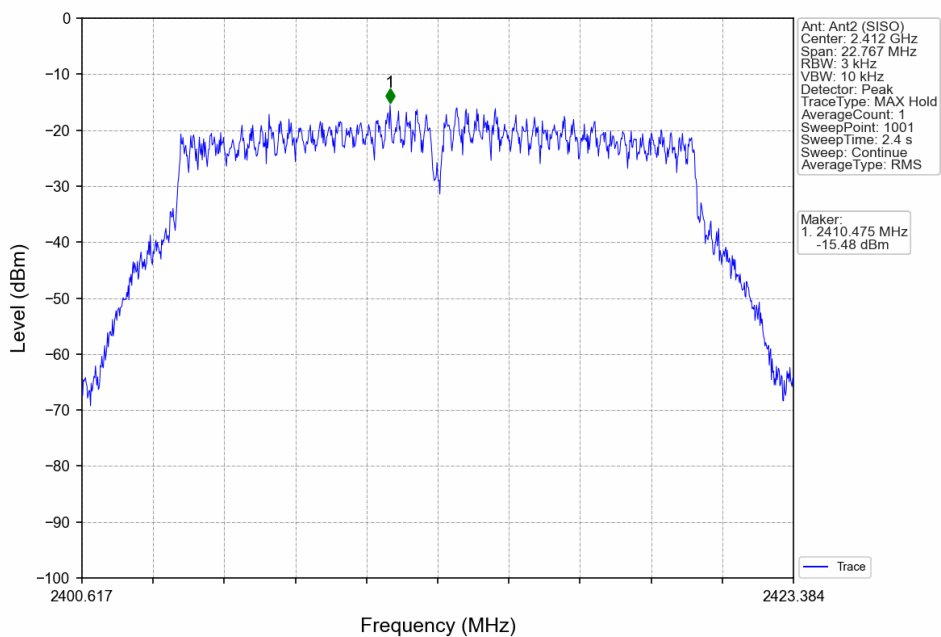
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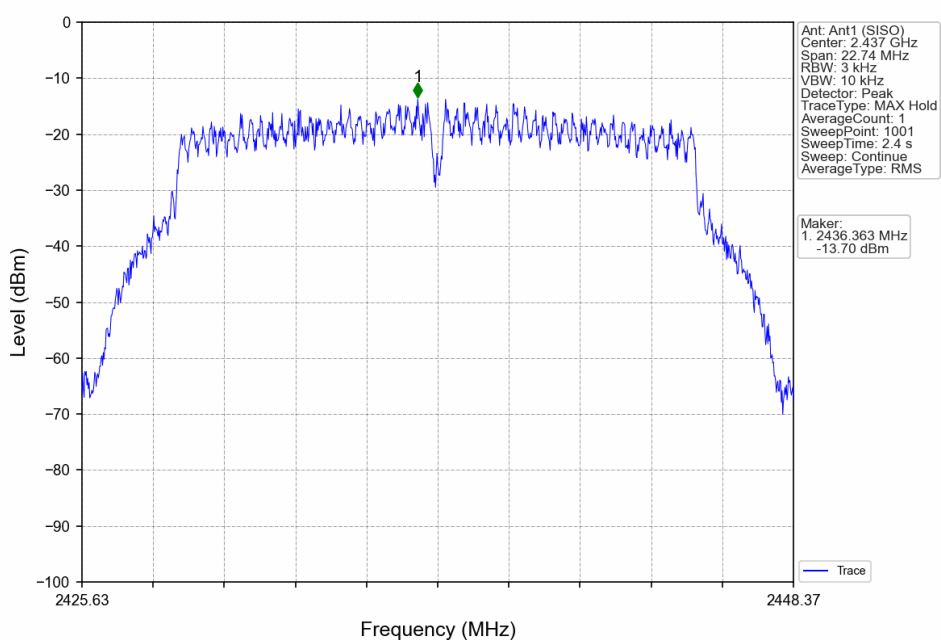
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



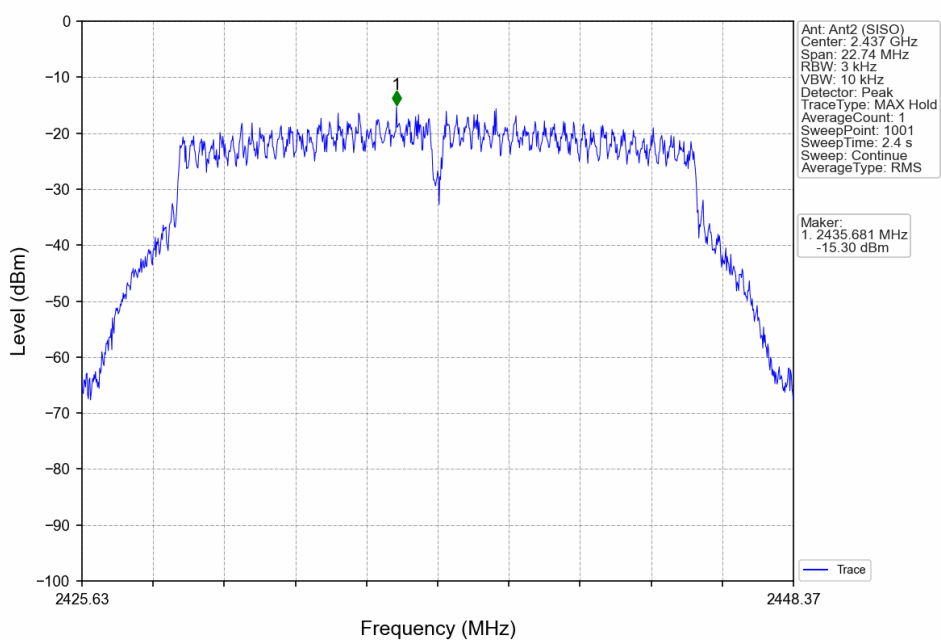
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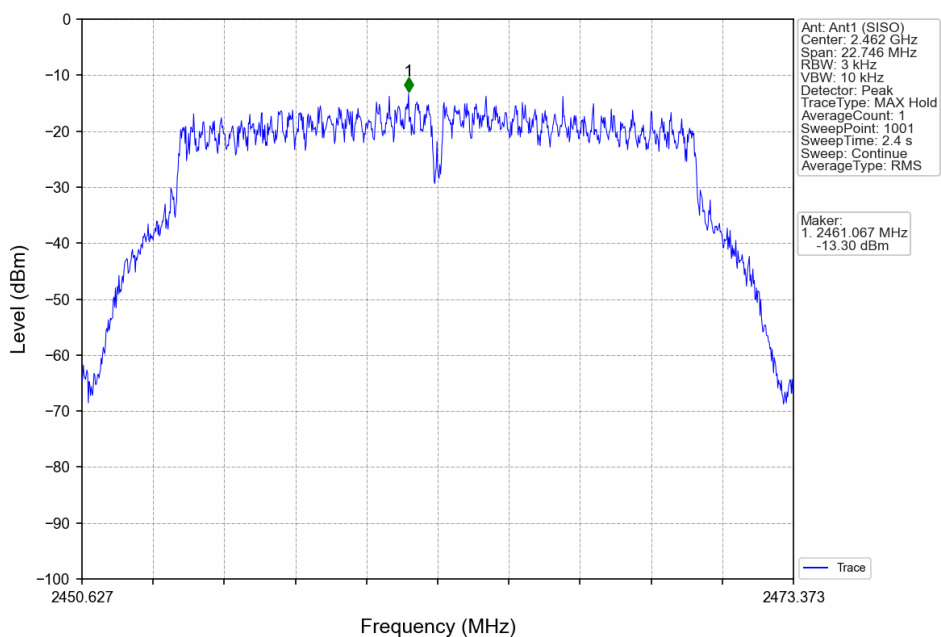
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



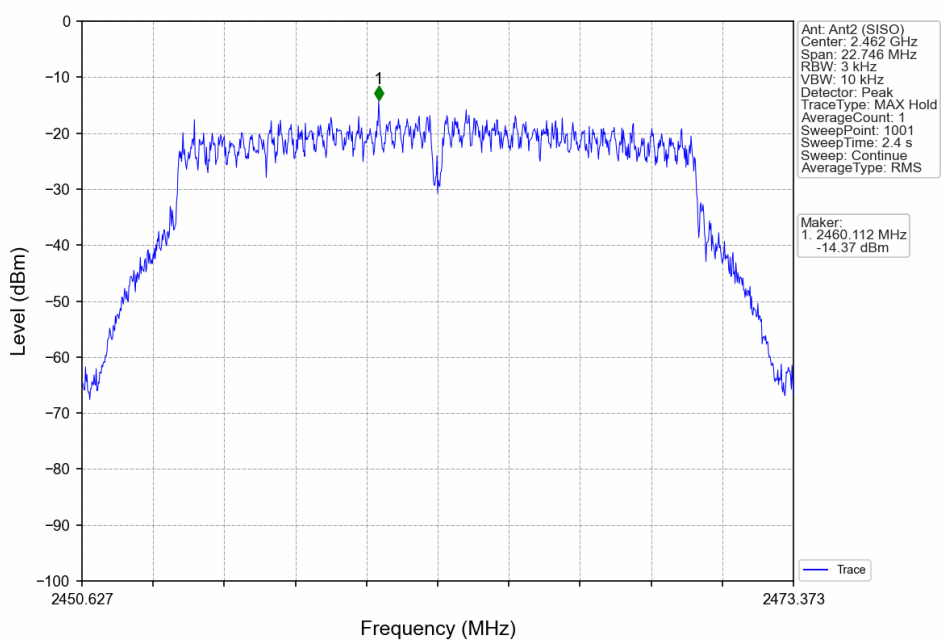
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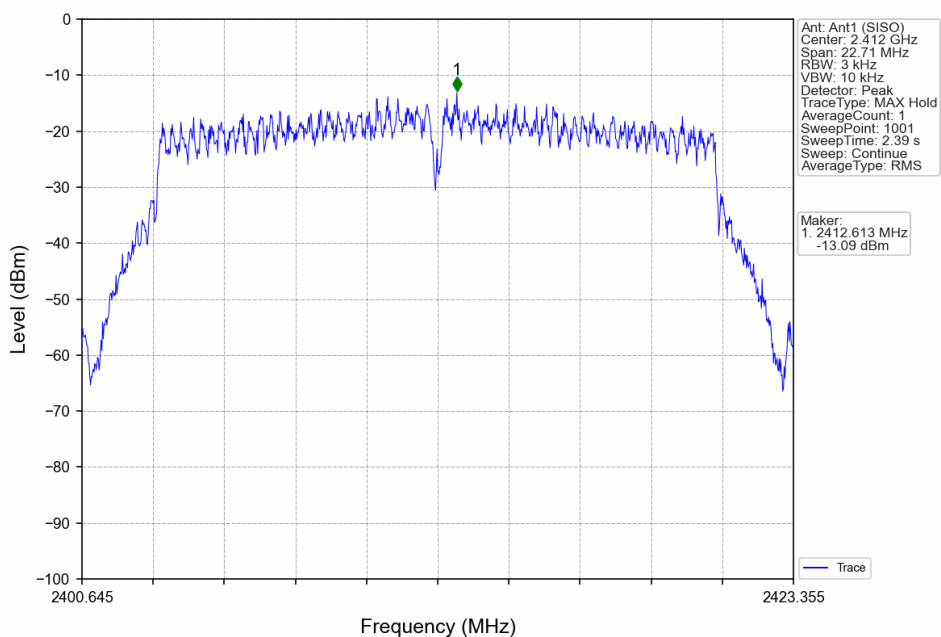
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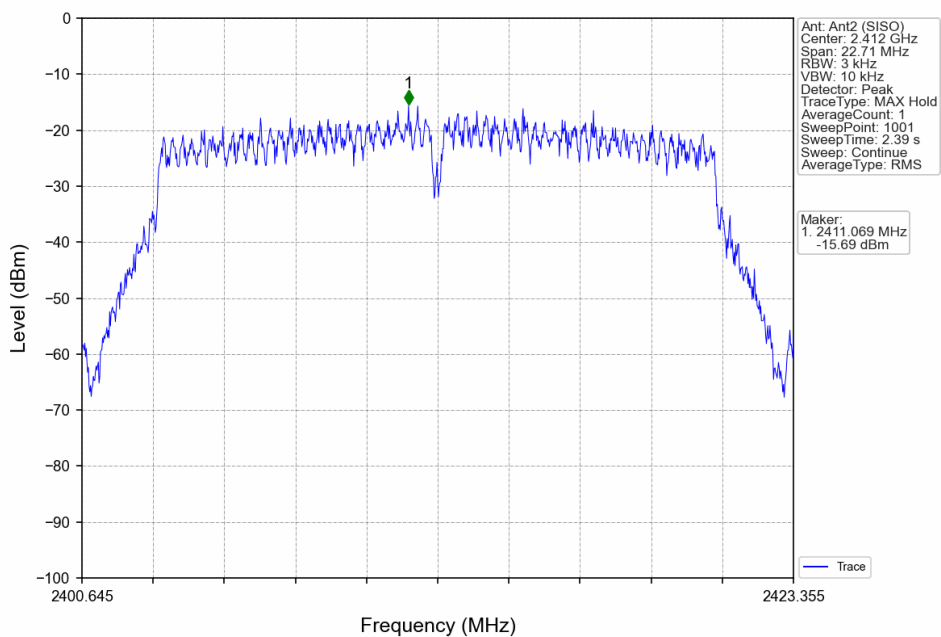
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



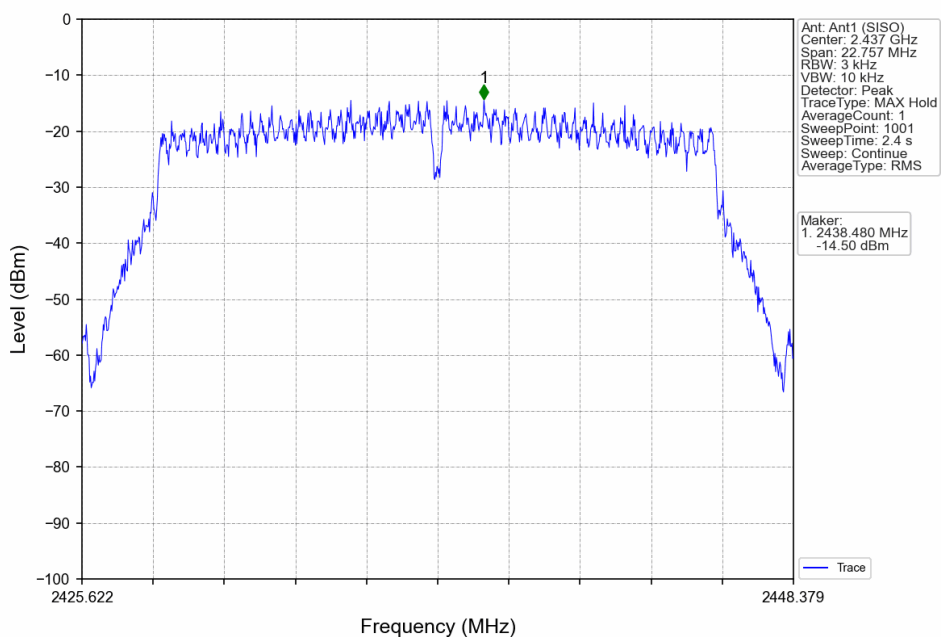
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



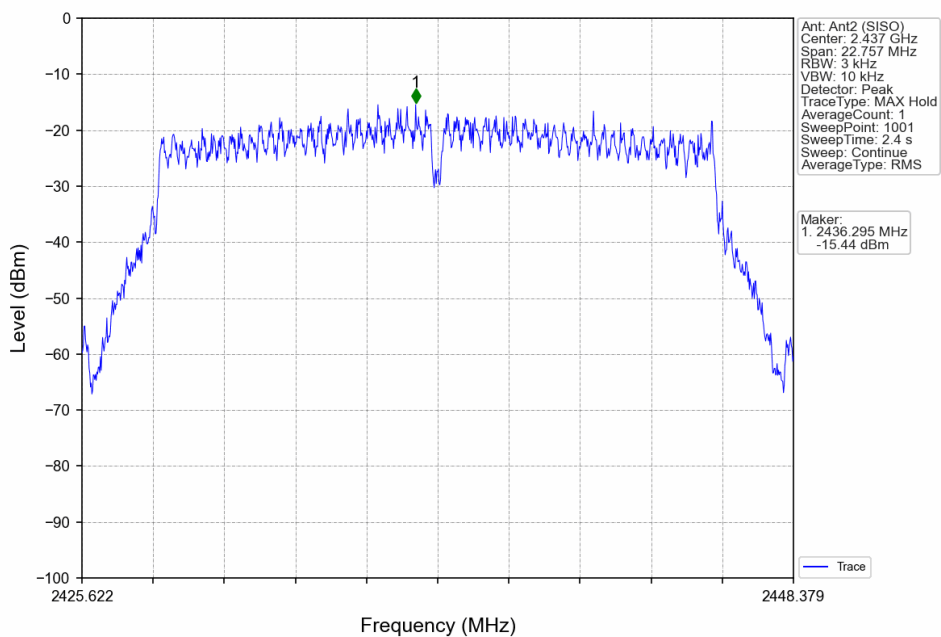
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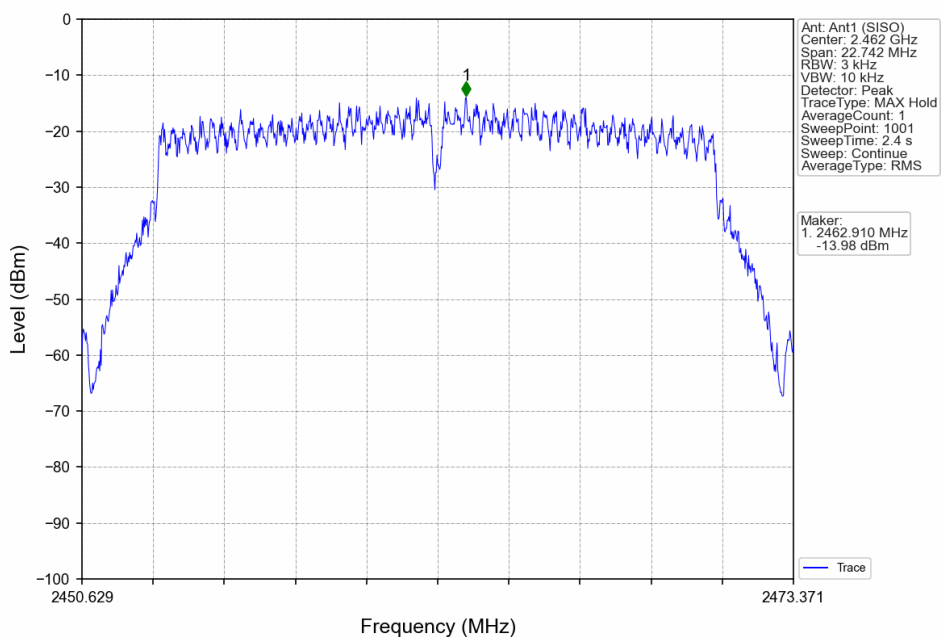
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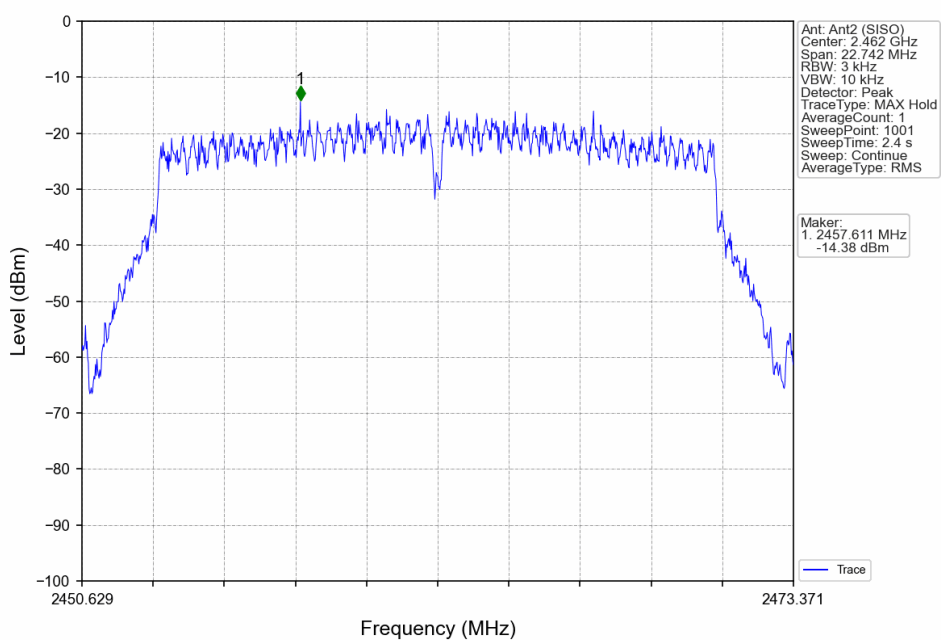
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



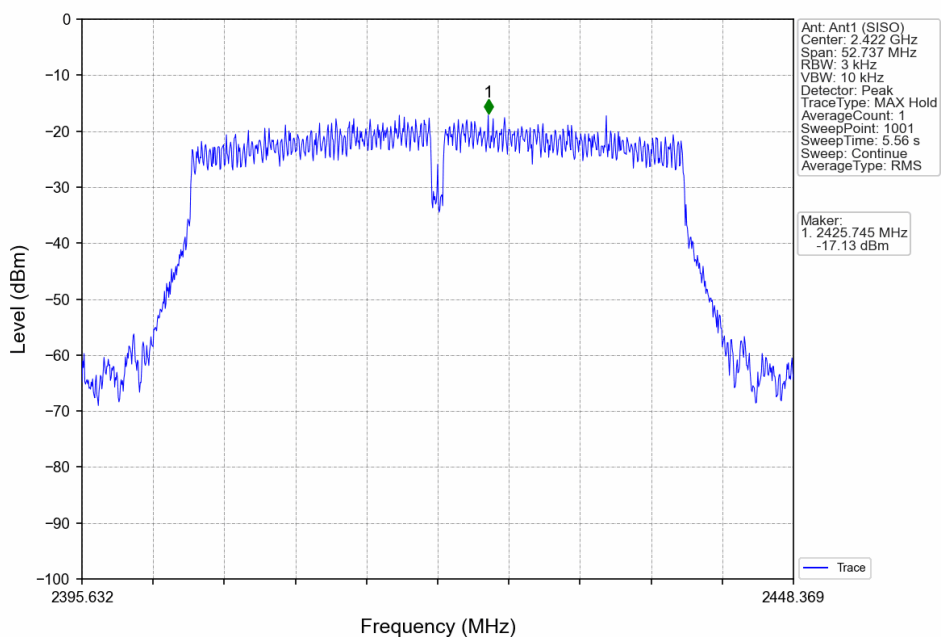
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



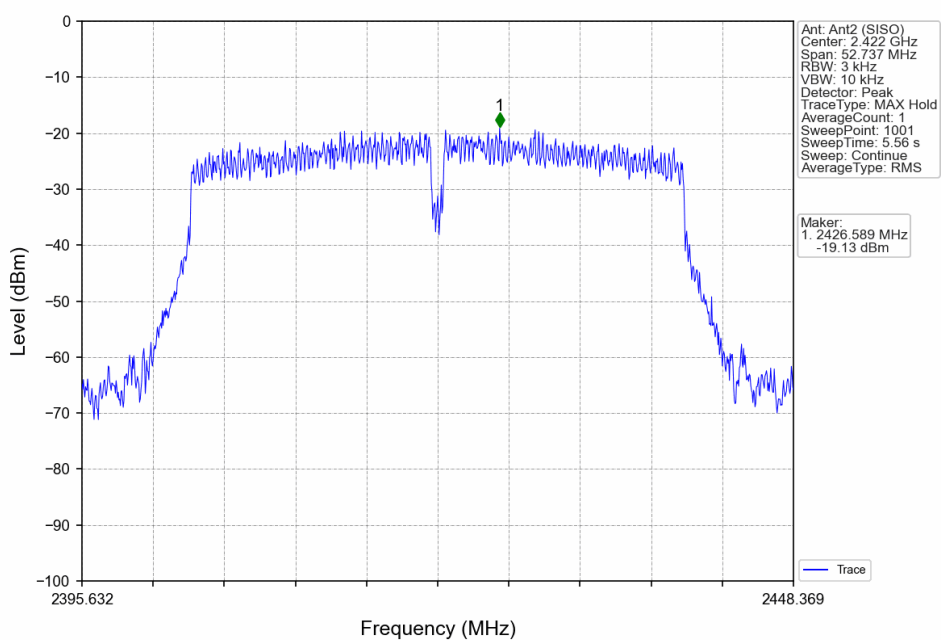
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



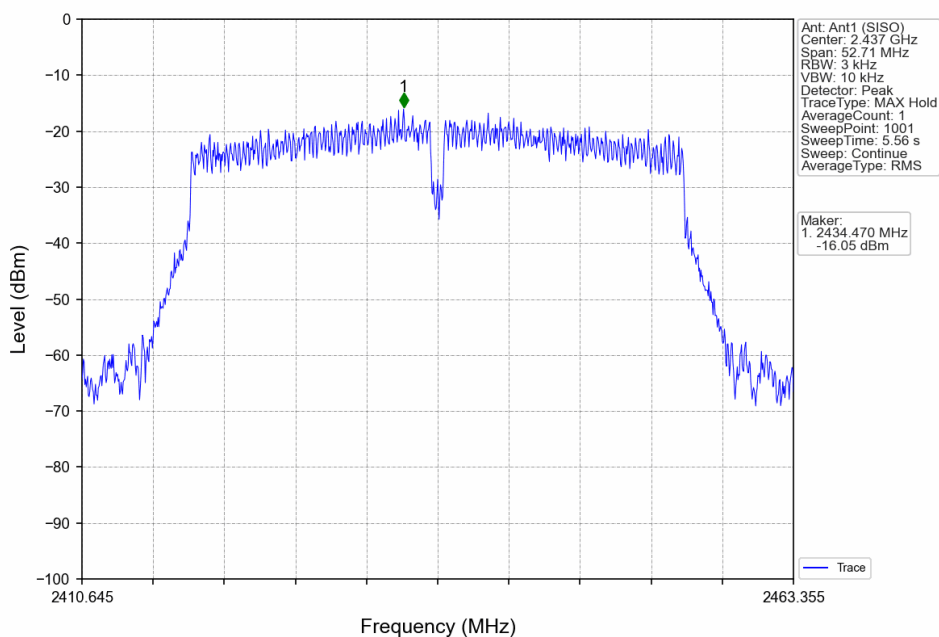
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



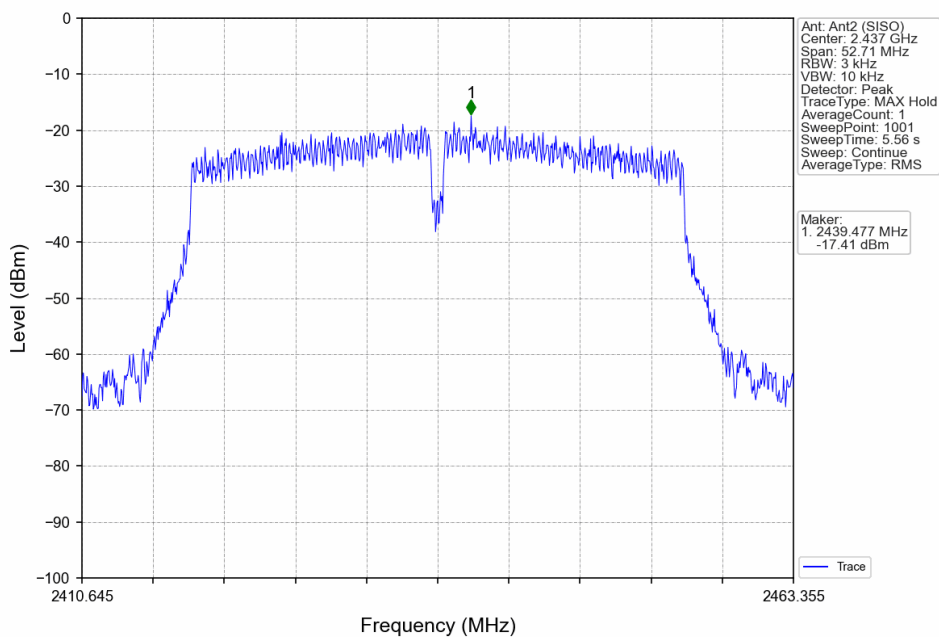
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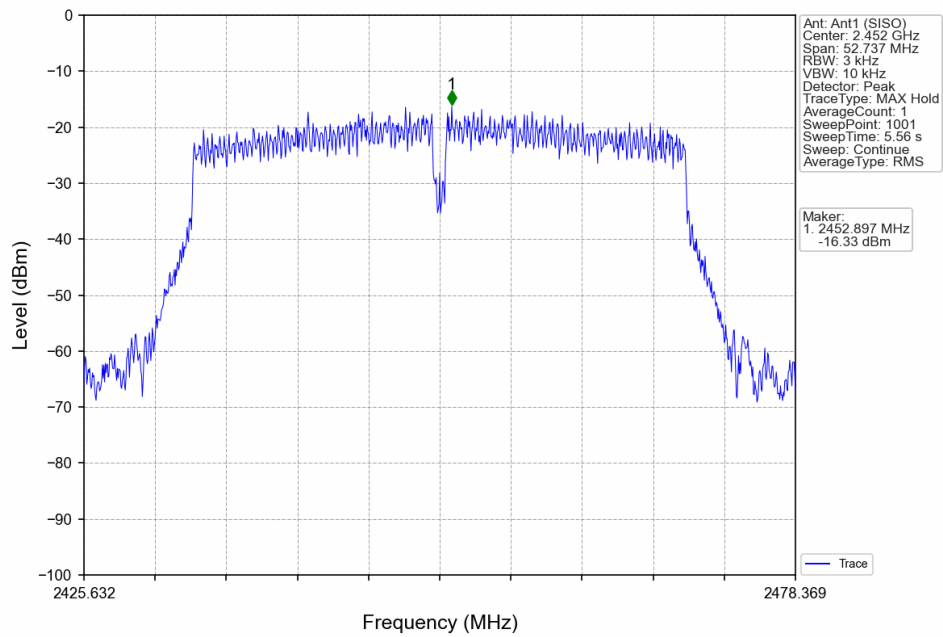
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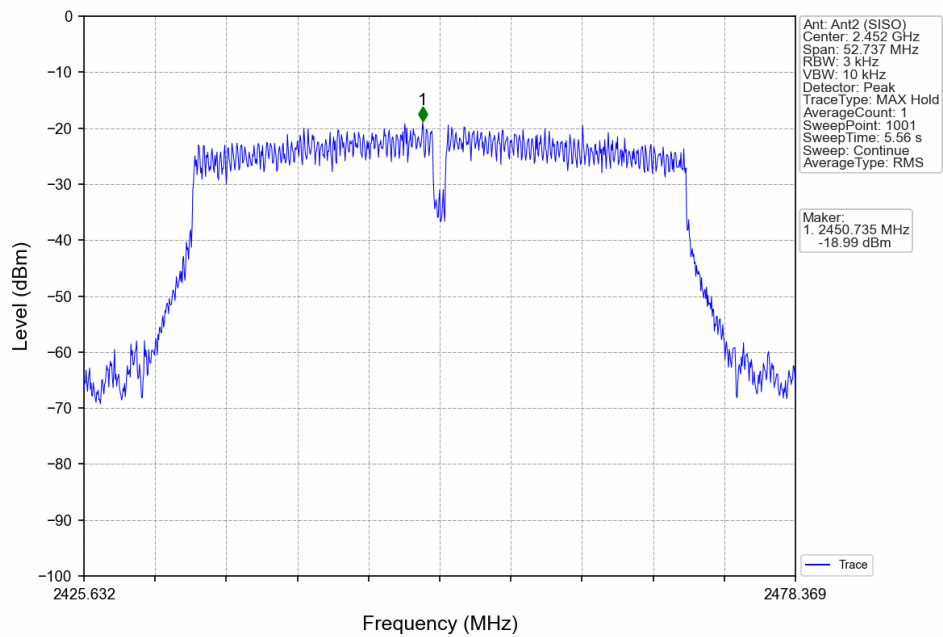
802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



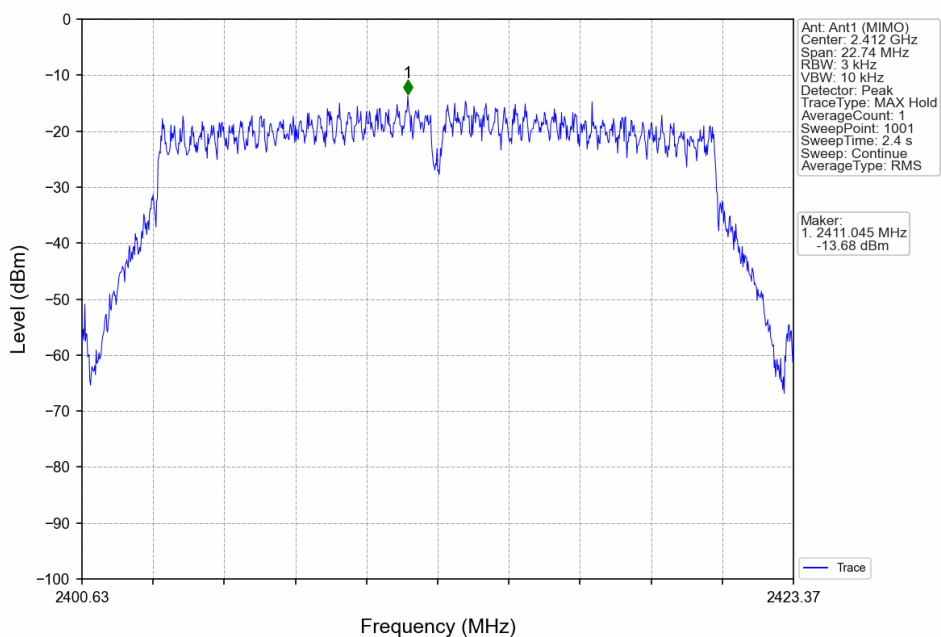
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



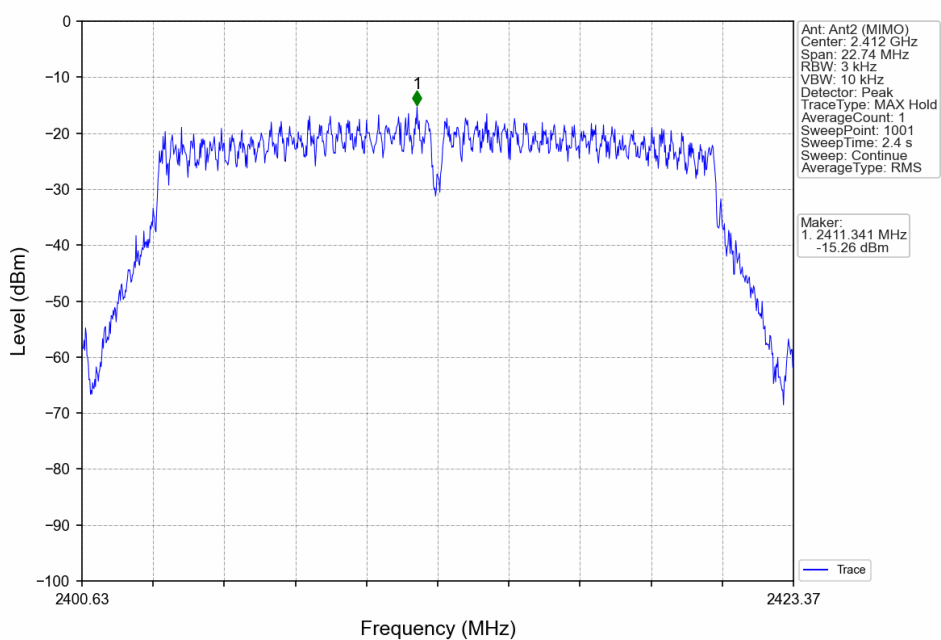
802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



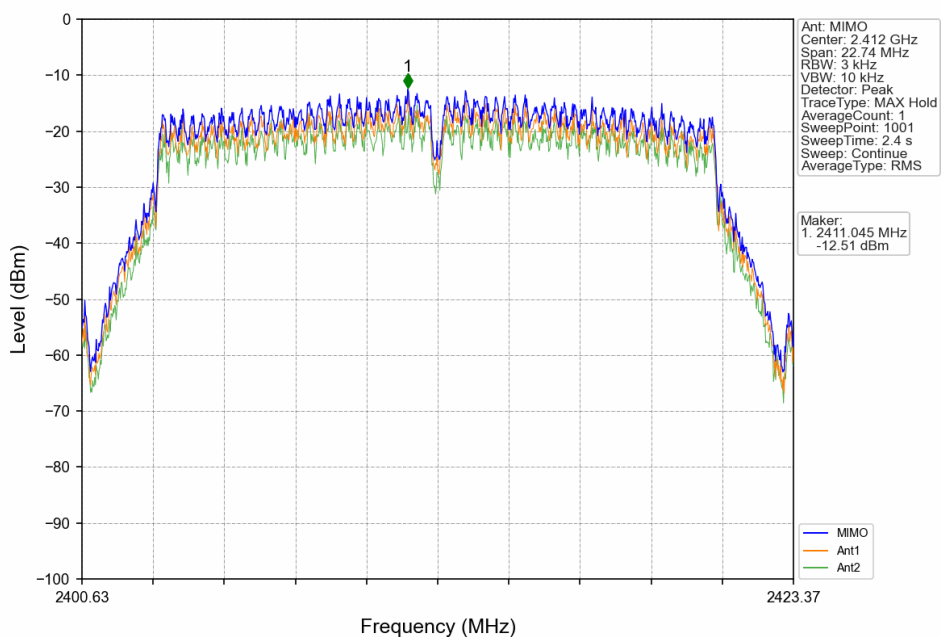
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



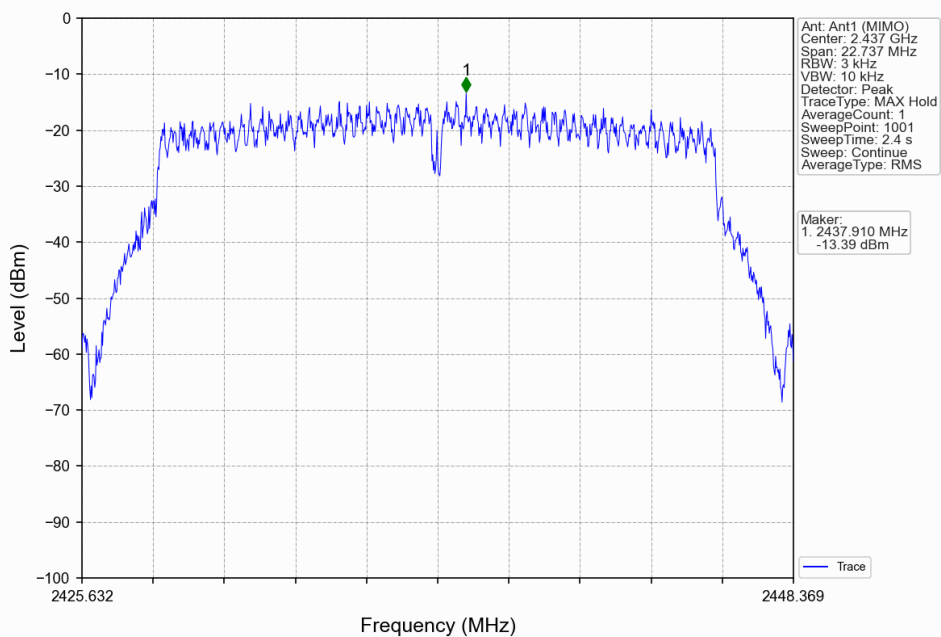
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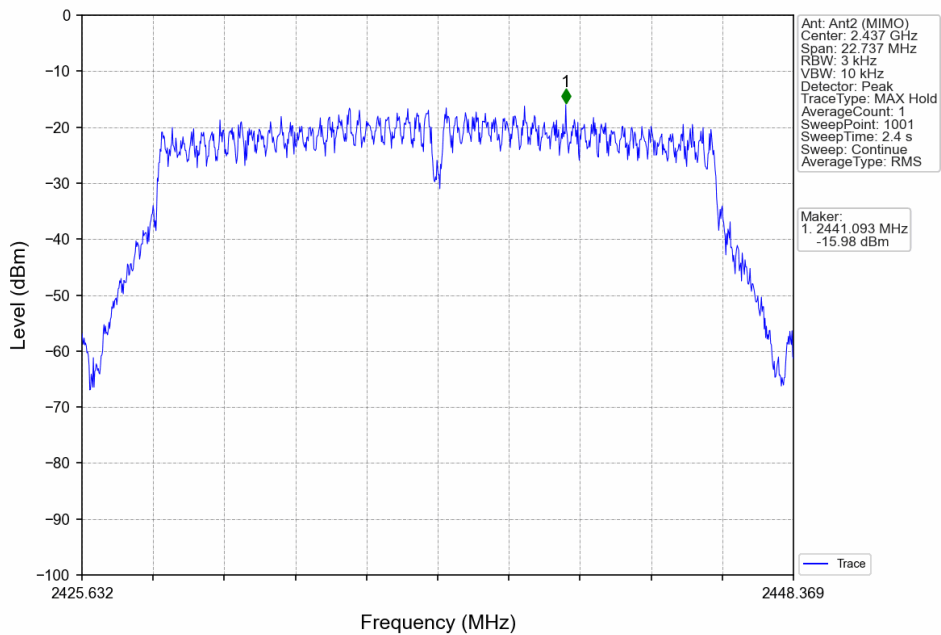
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



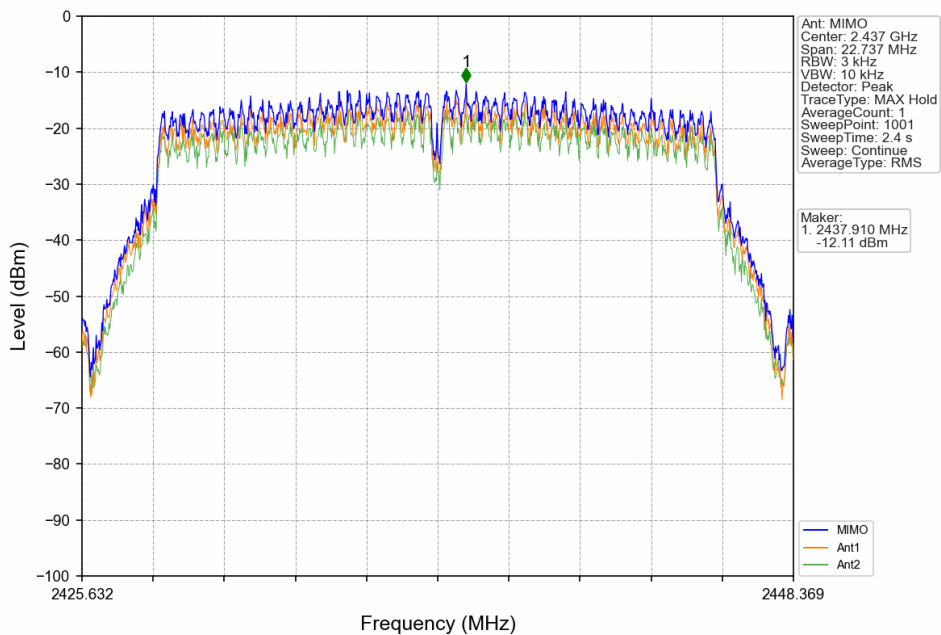
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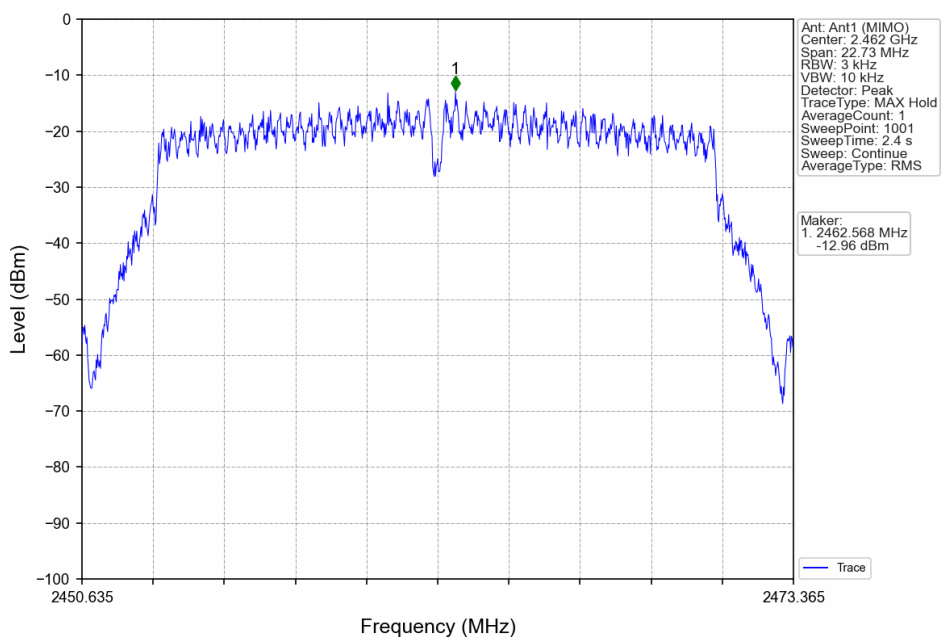
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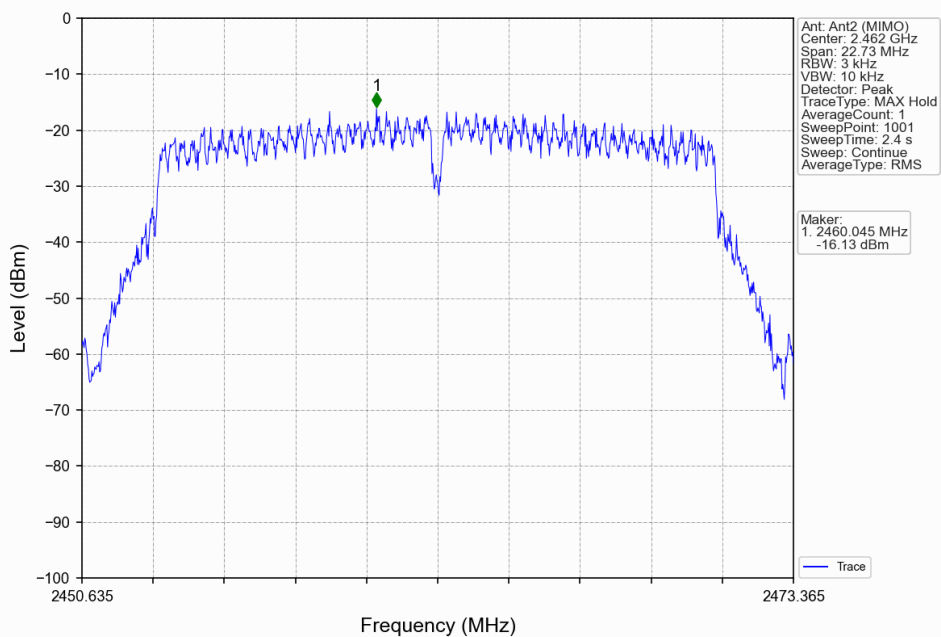
802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



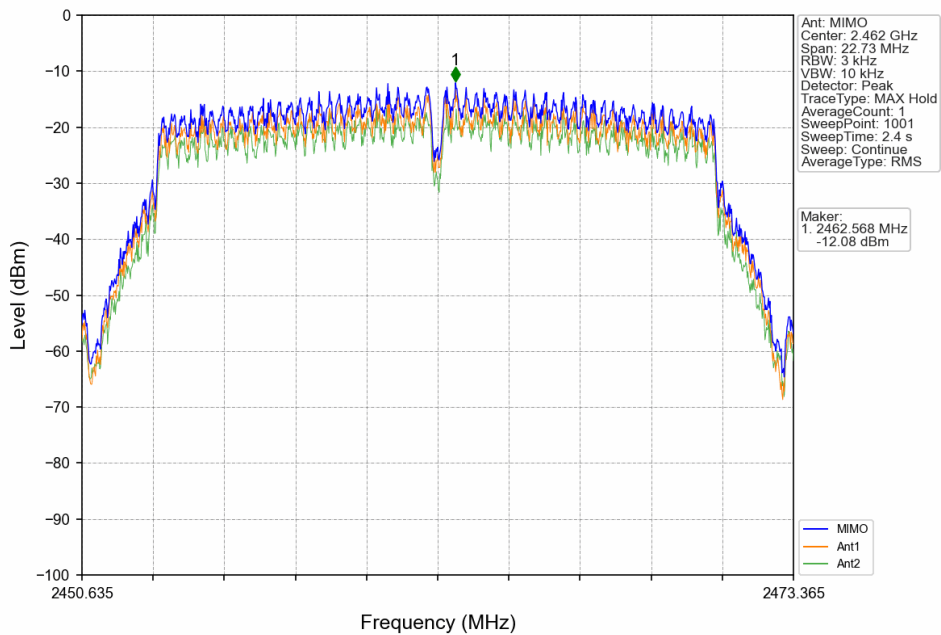
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



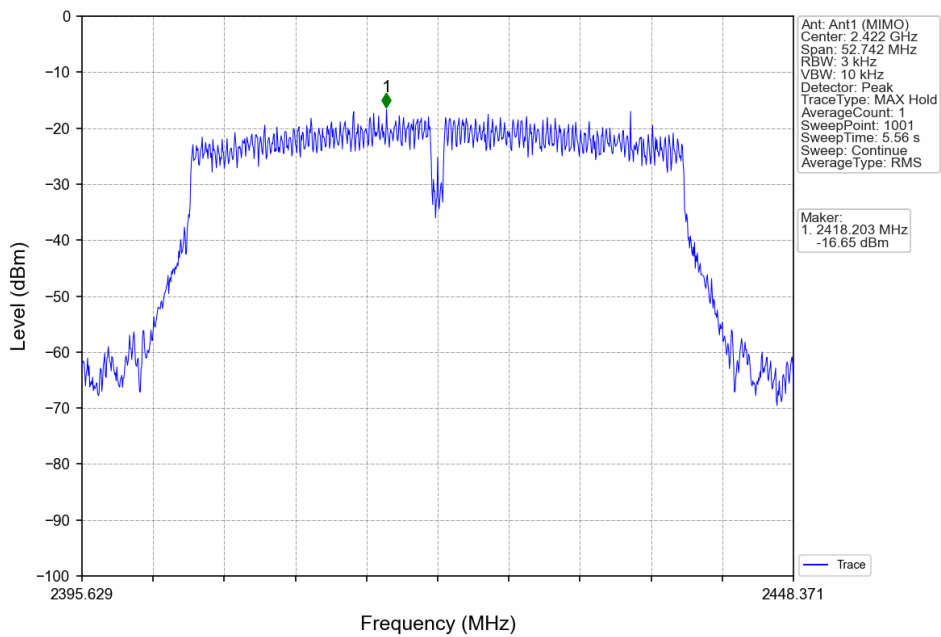
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



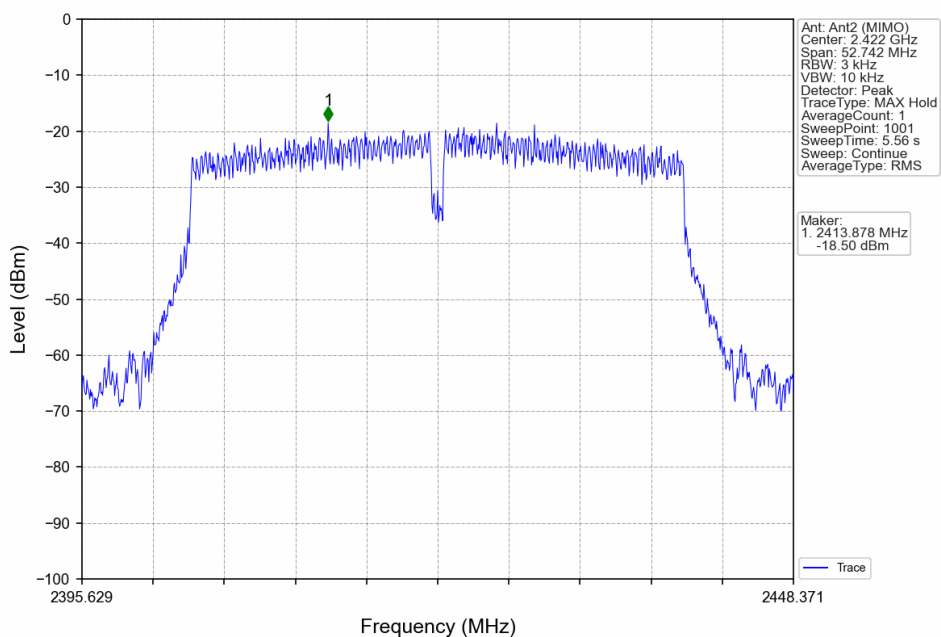
802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



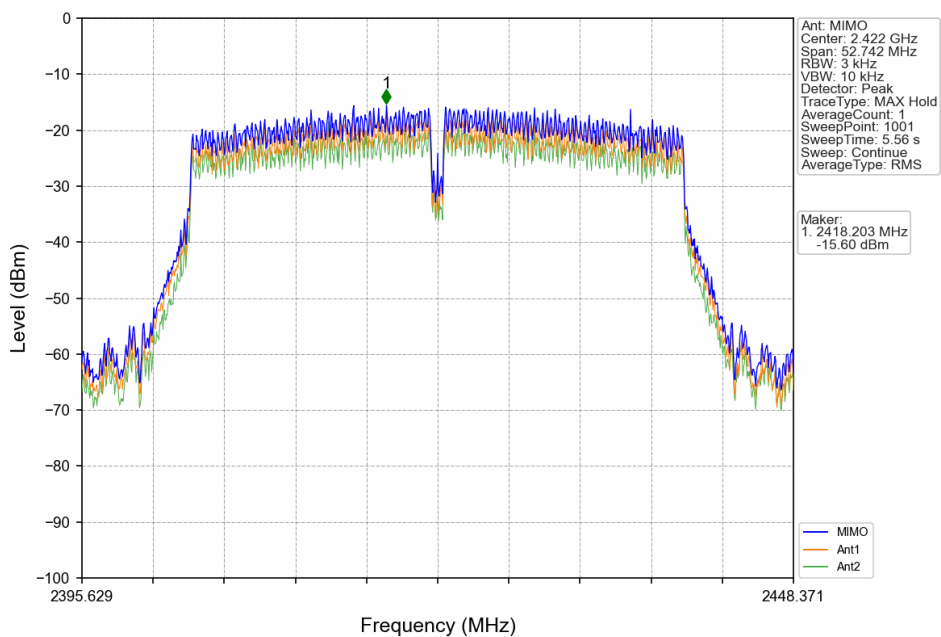
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



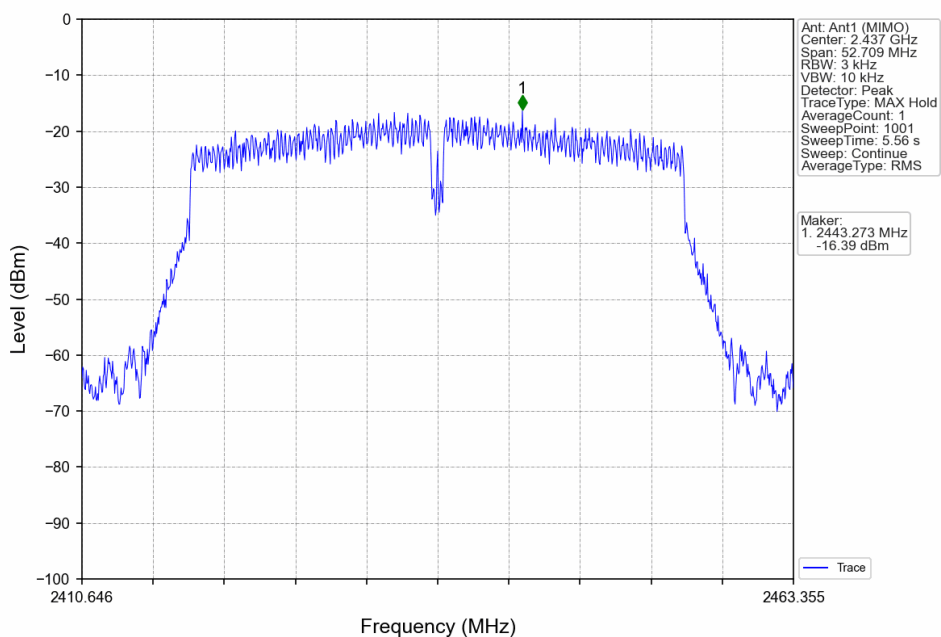
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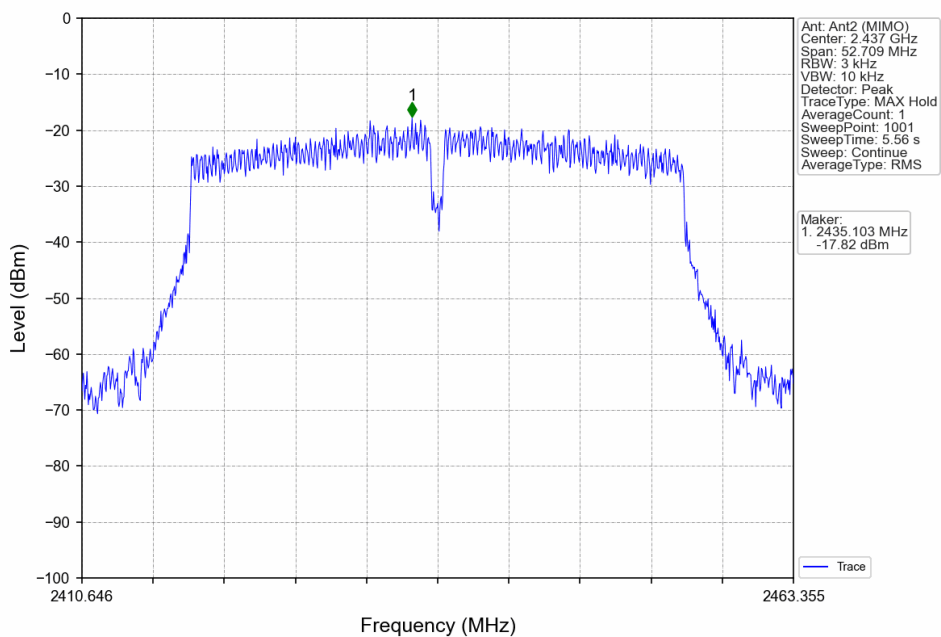
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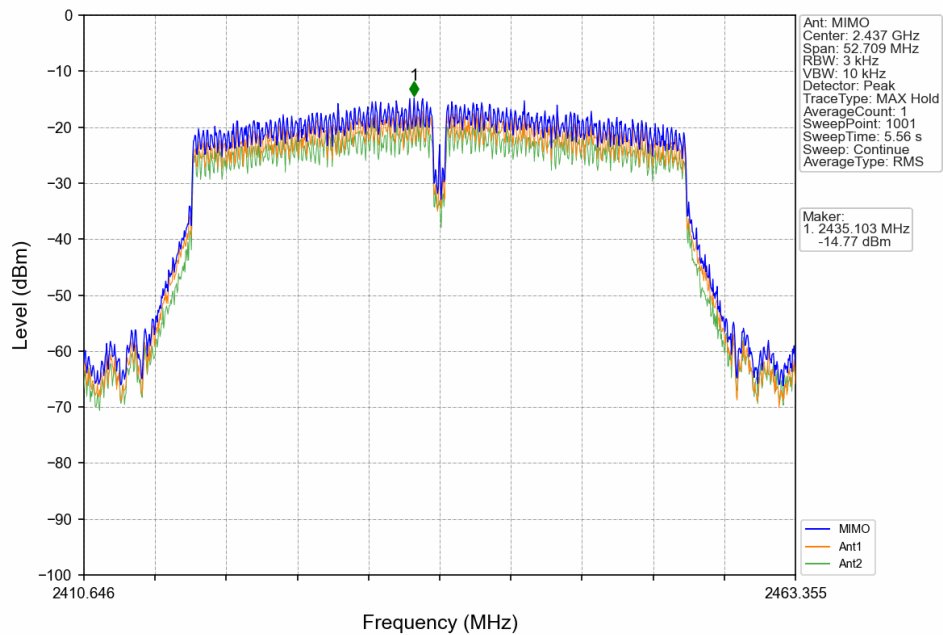
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_MIMO_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV

