

Appendix: 2.4G Wi-Fi

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6. Form731 49

 6.1 Test Result 49

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1. Duty Cycle

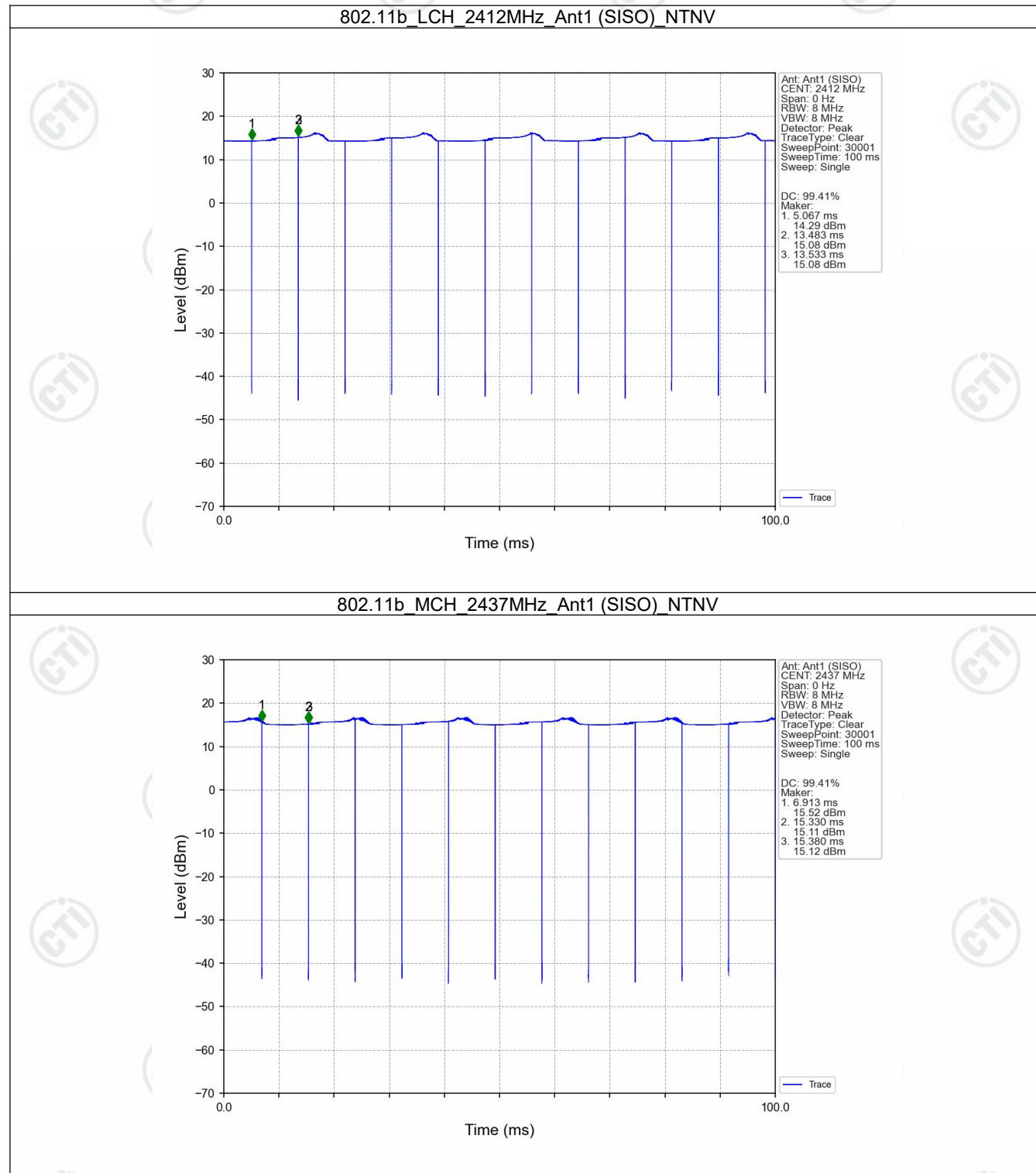
1.1 Test Result

1.1.1 Ant1

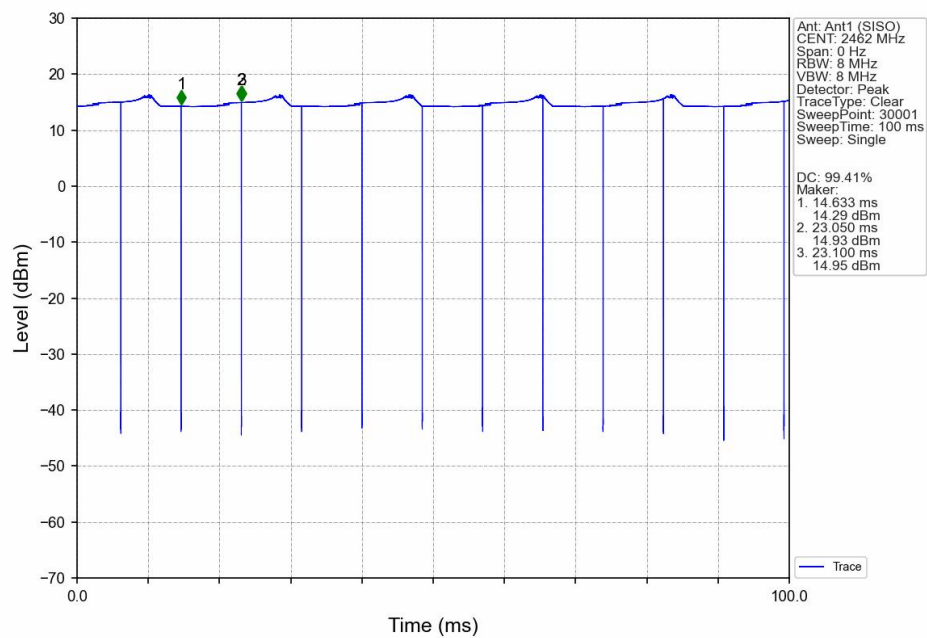
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.416	8.466	99.41	0.03	0.04
		2437	8.417	8.467	99.41	0.03	0.04
		2462	8.417	8.467	99.41	0.03	0.04
802.11g	SISO	2412	1.397	1.450	96.34	0.16	0.00
		2437	1.395	1.450	96.21	0.17	0.03
		2462	1.397	1.451	96.28	0.16	0.00
802.11n (HT20)	SISO	2412	1.181	1.235	95.63	0.19	0.04
		2437	1.182	1.236	95.63	0.19	0.03
		2462	1.181	1.235	95.63	0.19	0.04
802.11n (HT40)	SISO	2422	0.587	0.640	91.72	0.38	0.03
		2437	0.588	0.640	91.87	0.37	0.00
		2452	0.587	0.640	91.72	0.38	0.06

1.2 Test Graph

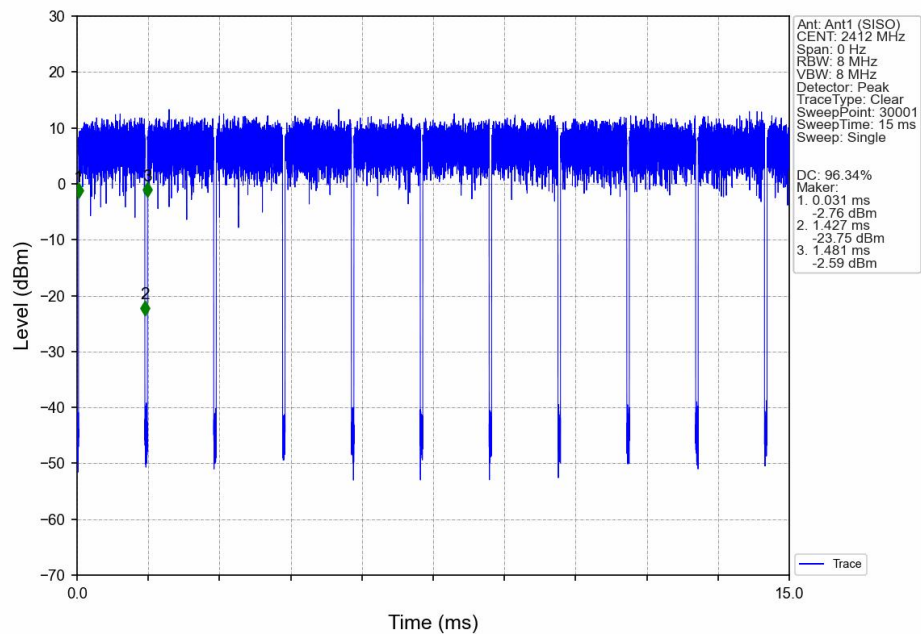
1.2.1 Ant1



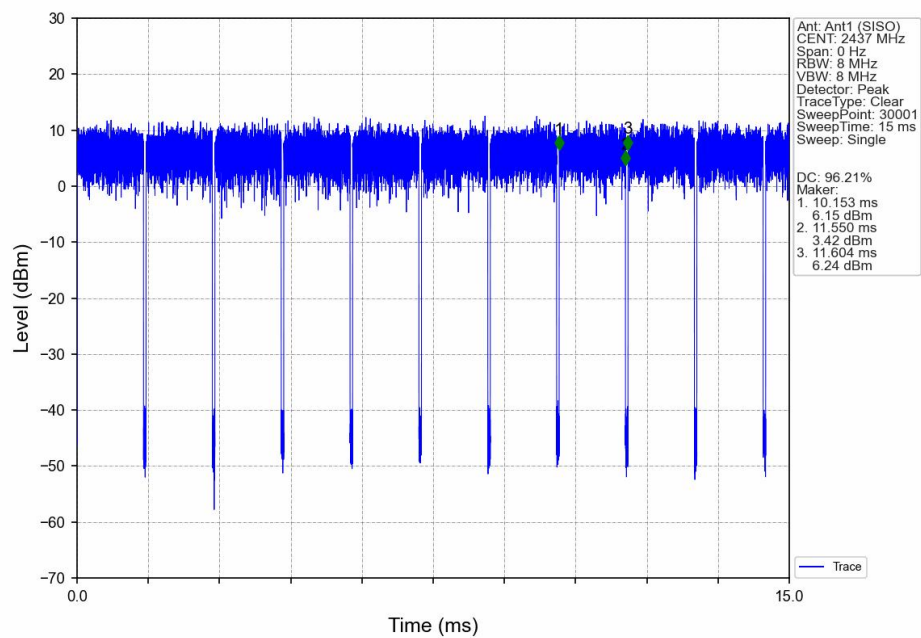
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



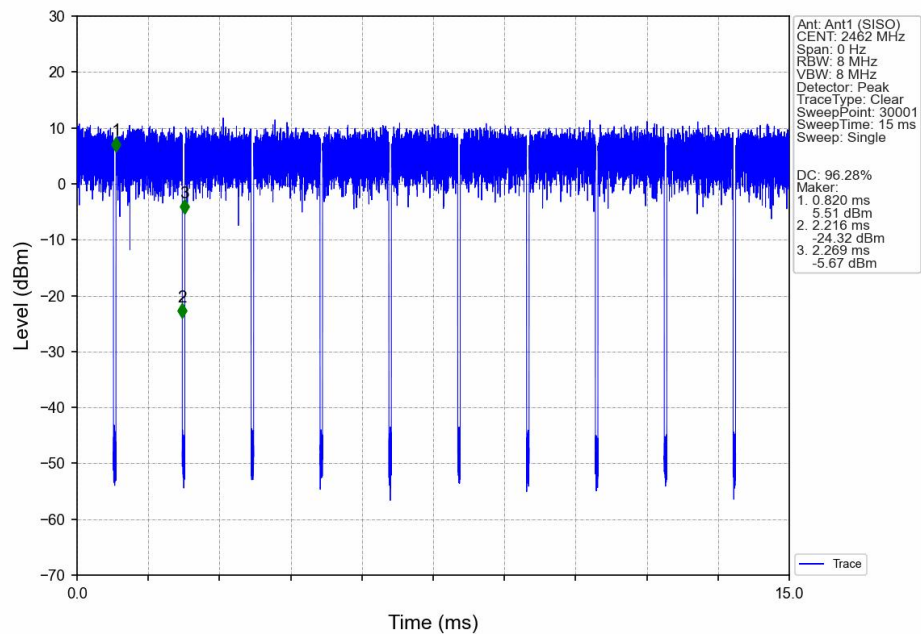
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



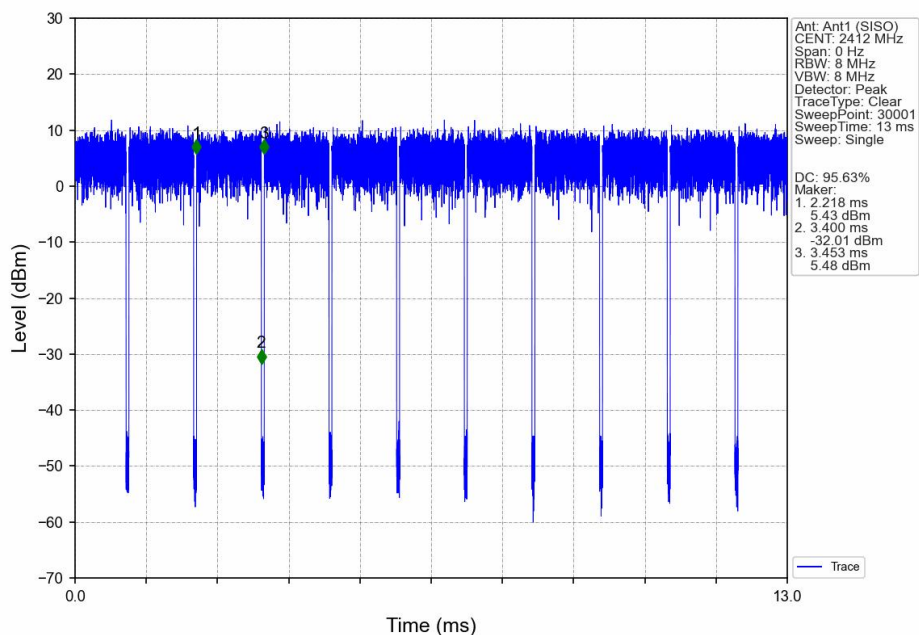
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



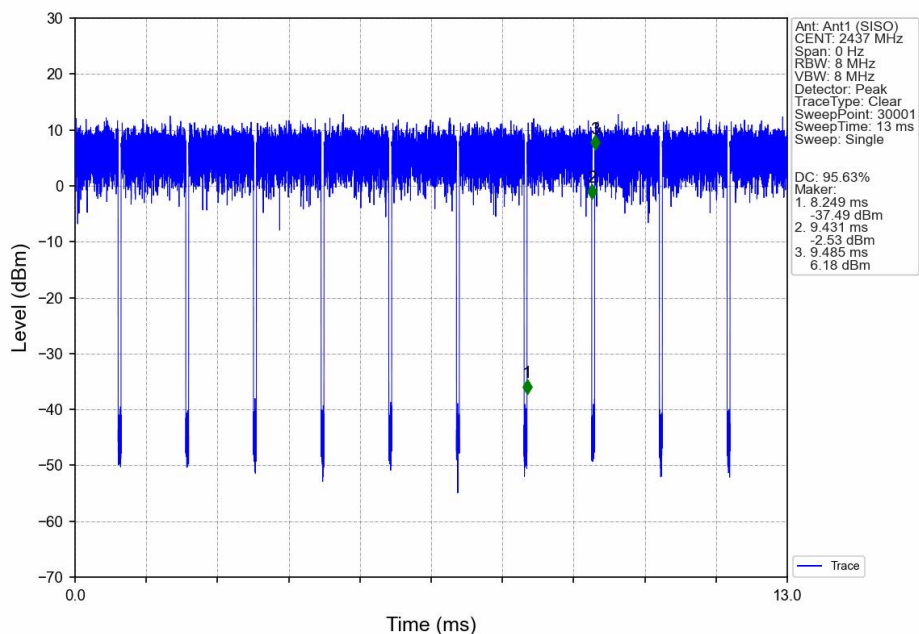
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



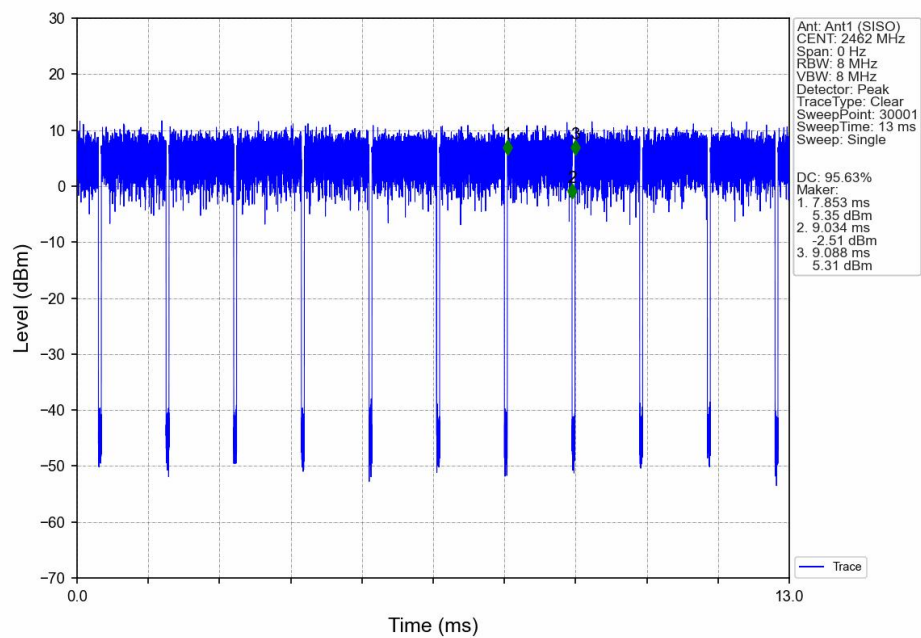
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



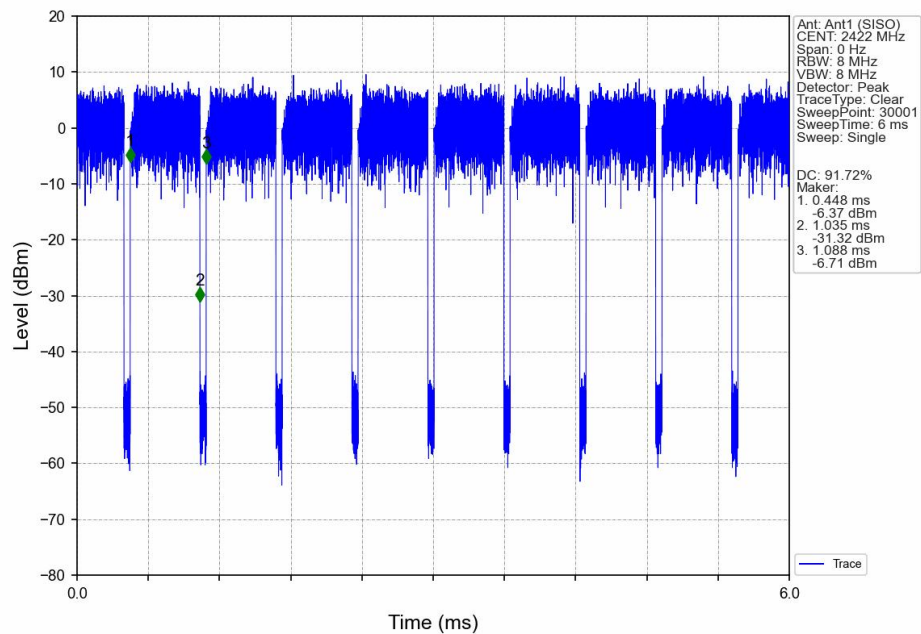
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



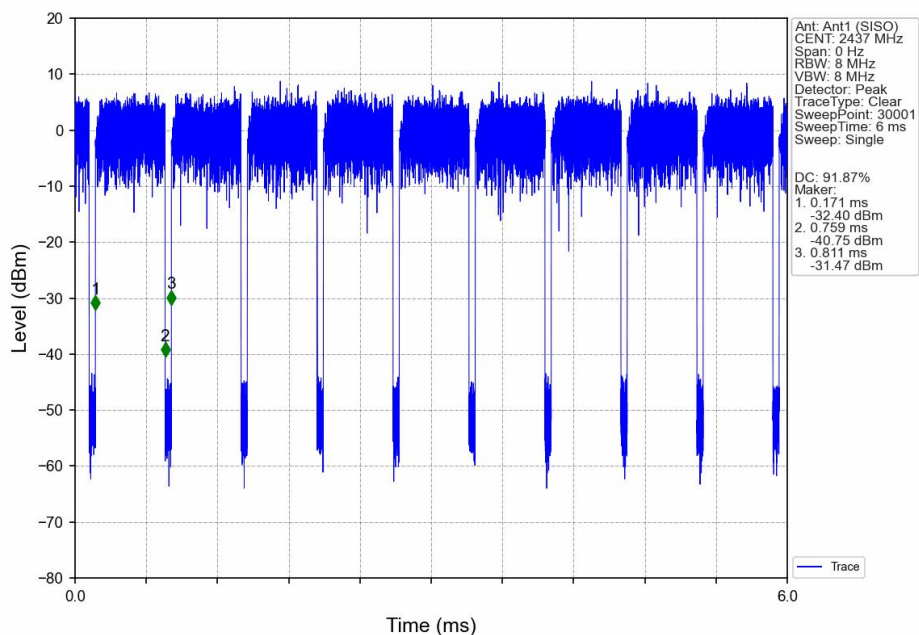
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



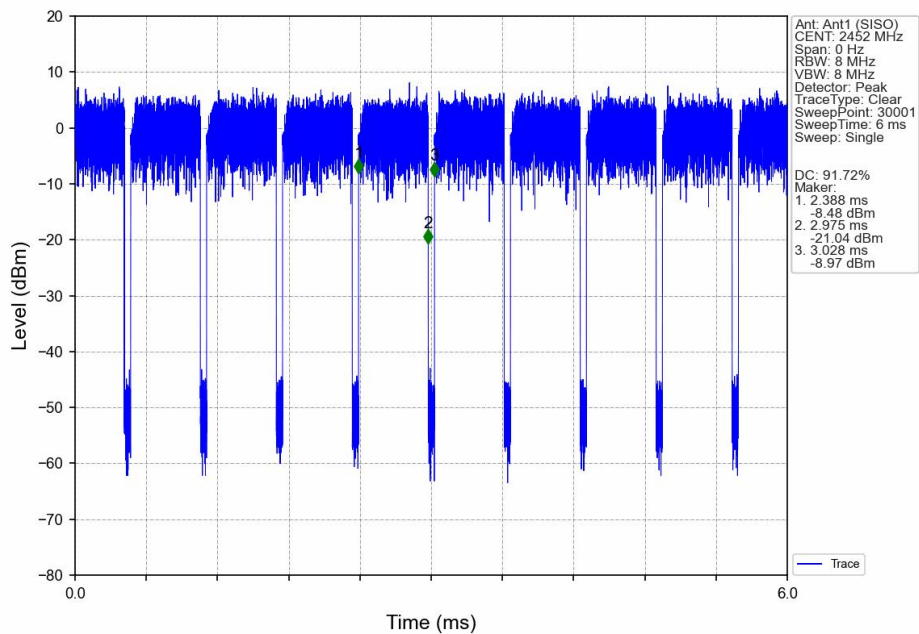
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

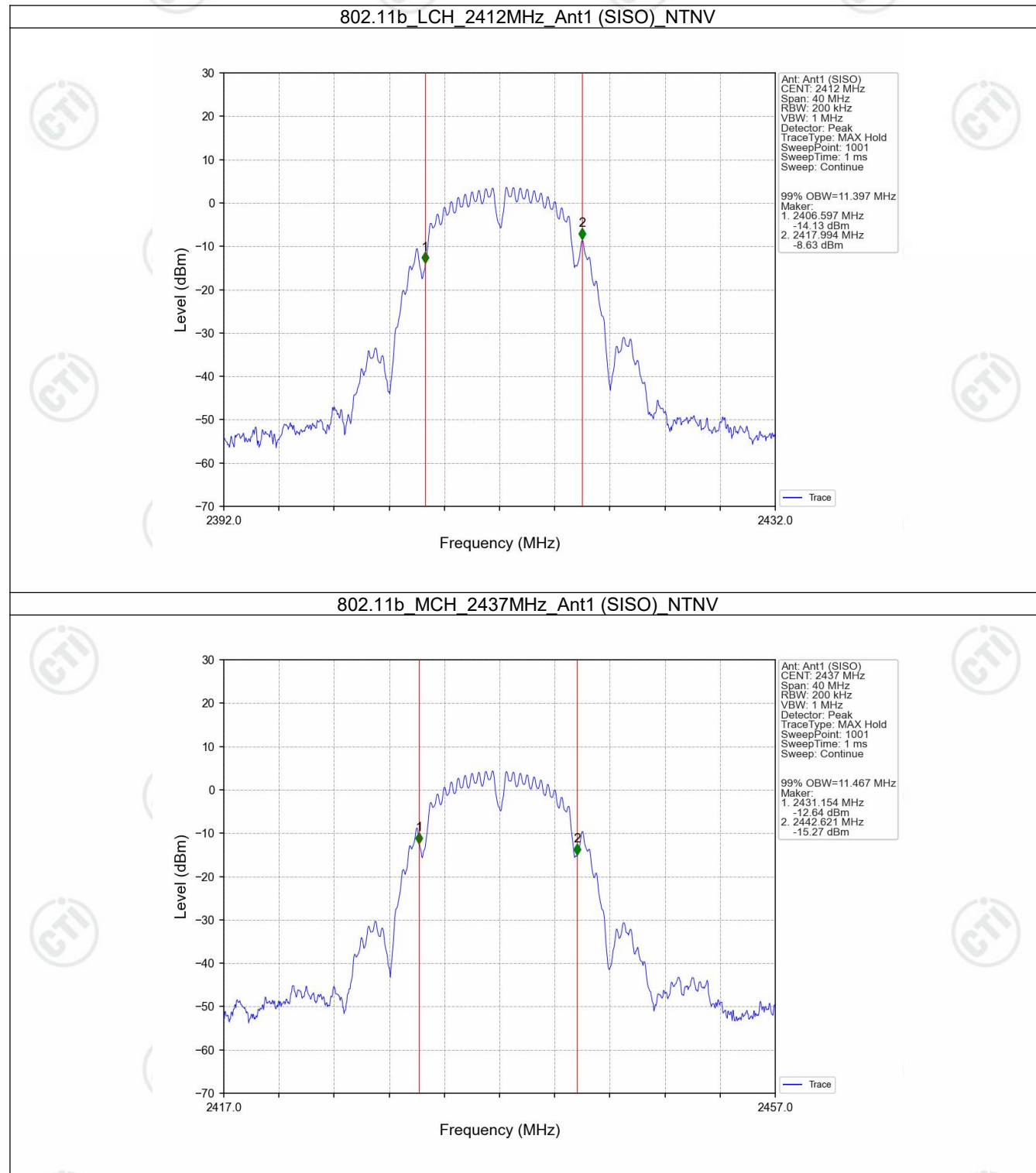
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	11.397	/	Pass
		2437	1	11.467	/	Pass
		2462	1	11.783	/	Pass
802.11g	SISO	2412	1	16.483	/	Pass
		2437	1	16.418	/	Pass
		2462	1	16.536	/	Pass
802.11n (HT20)	SISO	2412	1	17.527	/	Pass
		2437	1	17.495	/	Pass
		2462	1	17.543	/	Pass
802.11n (HT40)	SISO	2422	1	36.227	/	Pass
		2437	1	36.149	/	Pass
		2452	1	36.437	/	Pass

2.1.2 6dB BW

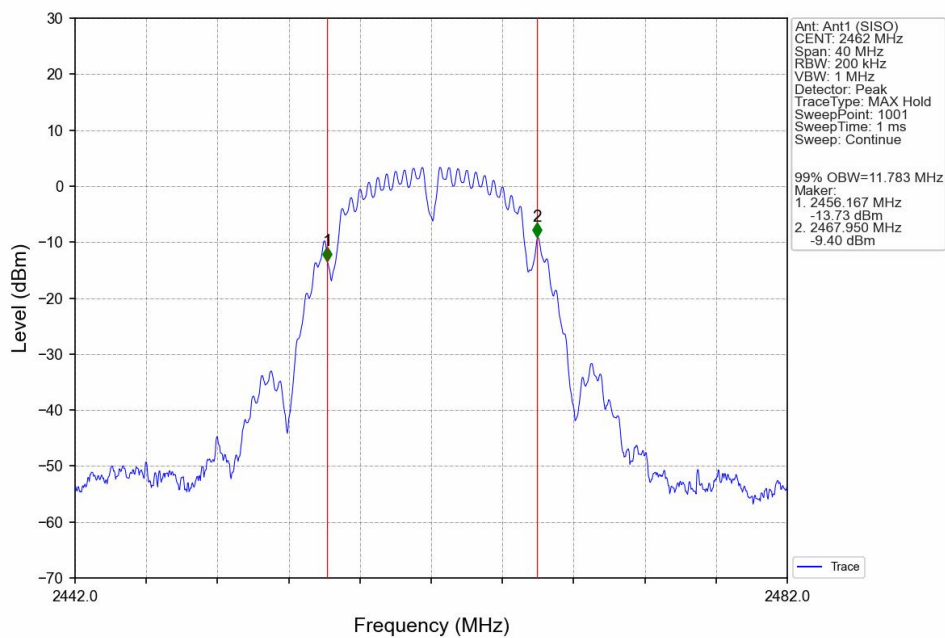
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.705	≥ 0.5	Pass
		2437	1	8.698	≥ 0.5	Pass
		2462	1	9.169	≥ 0.5	Pass
802.11g	SISO	2412	1	16.389	≥ 0.5	Pass
		2437	1	16.346	≥ 0.5	Pass
		2462	1	16.417	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.464	≥ 0.5	Pass
		2437	1	17.210	≥ 0.5	Pass
		2462	1	17.474	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.992	≥ 0.5	Pass
		2437	1	35.849	≥ 0.5	Pass
		2452	1	36.103	≥ 0.5	Pass

2.2 Test Graph

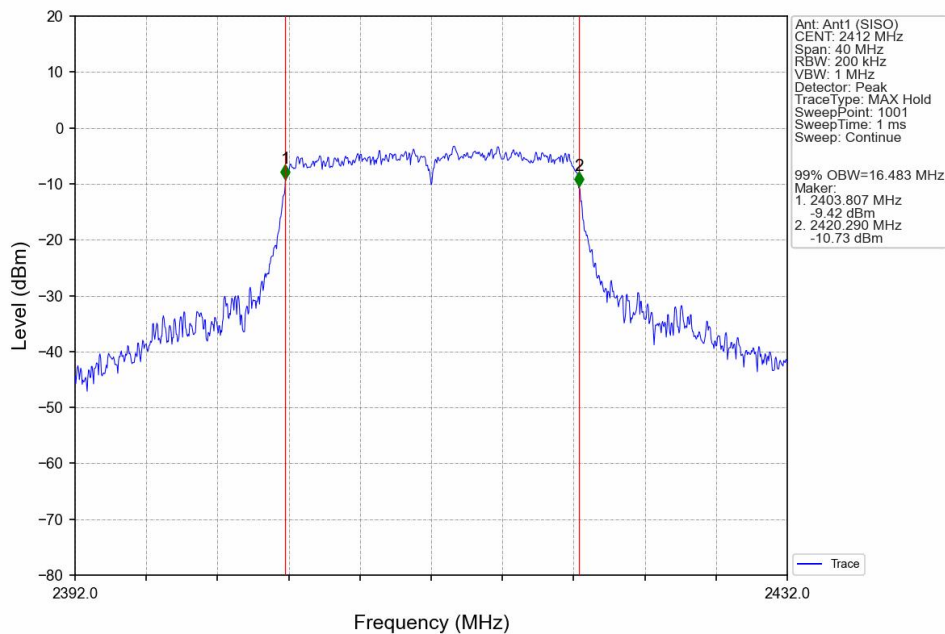
2.2.1 OBW



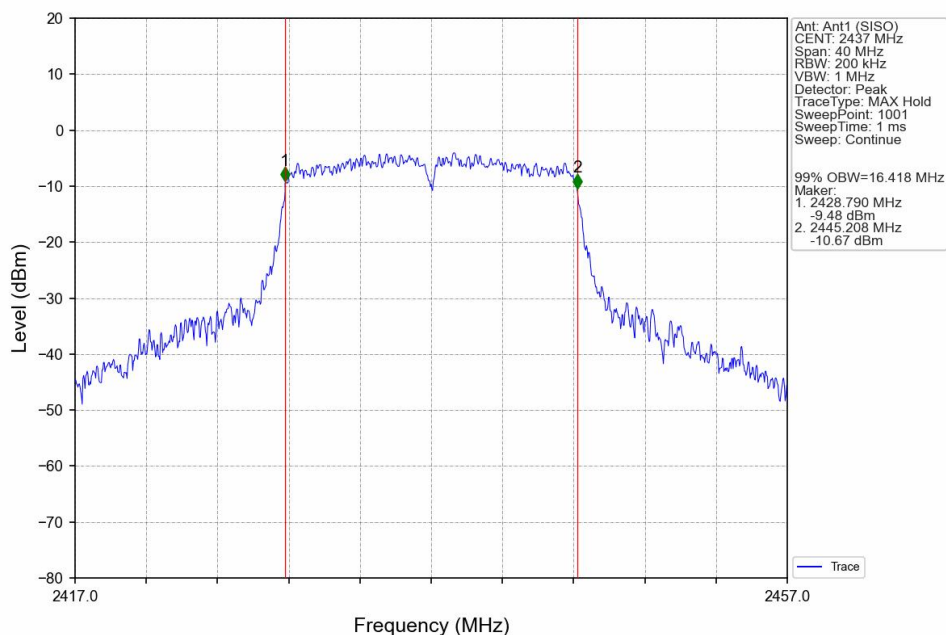
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



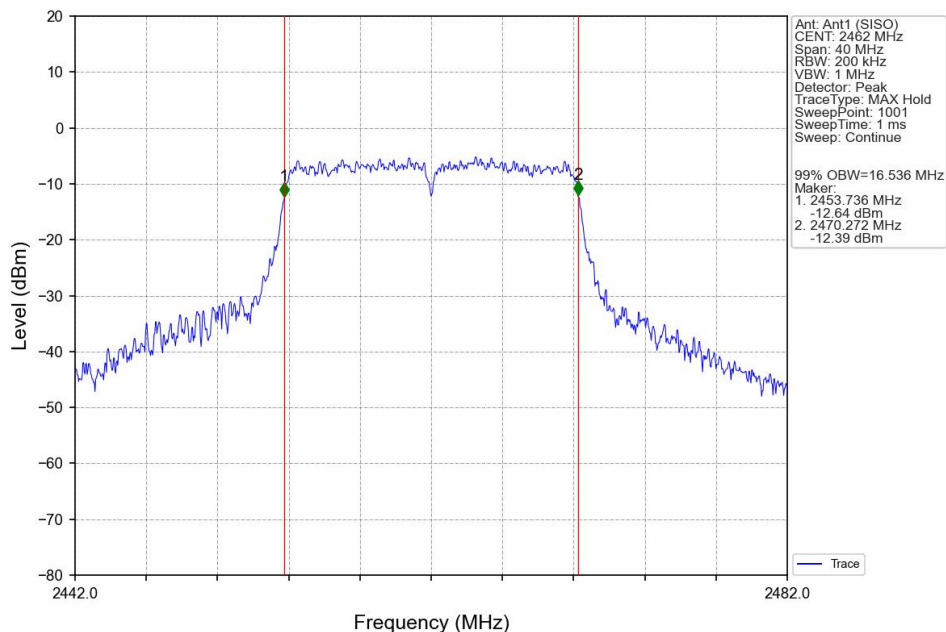
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



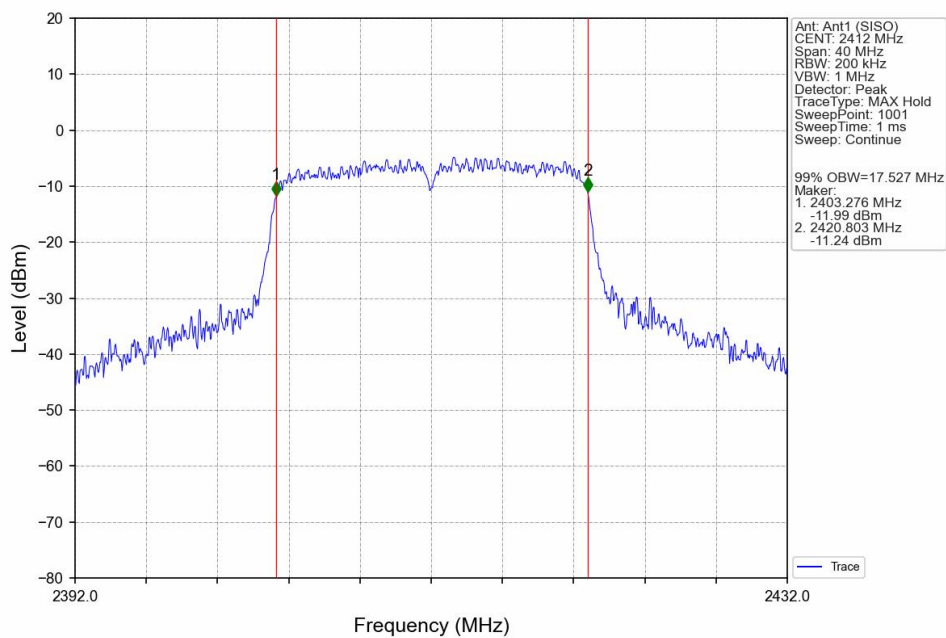
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



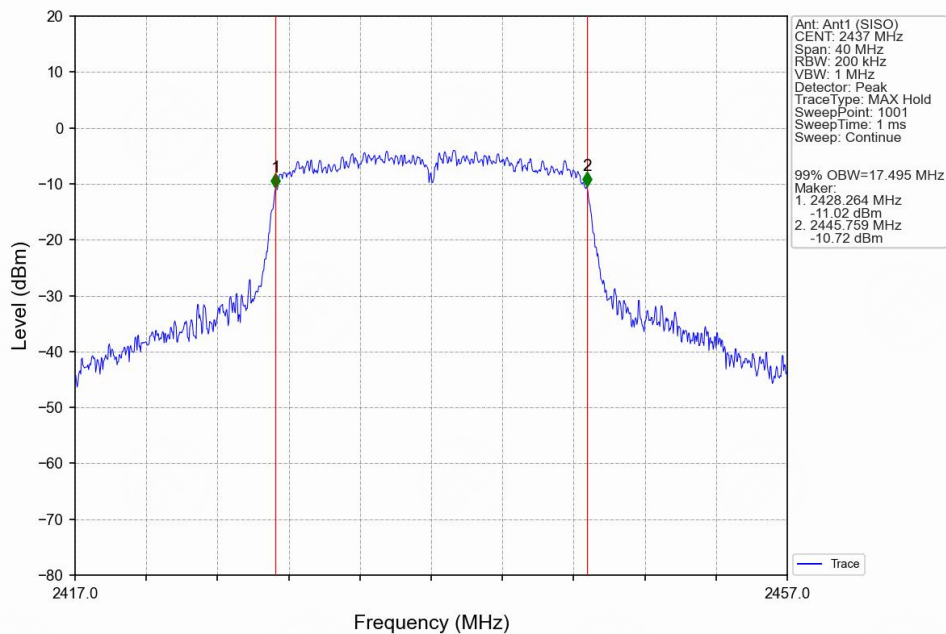
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



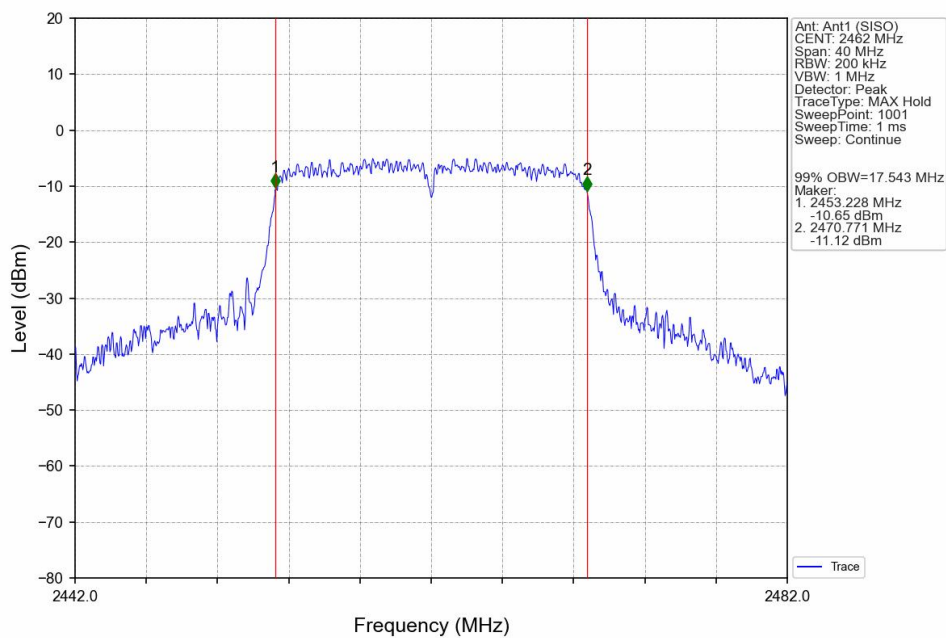
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



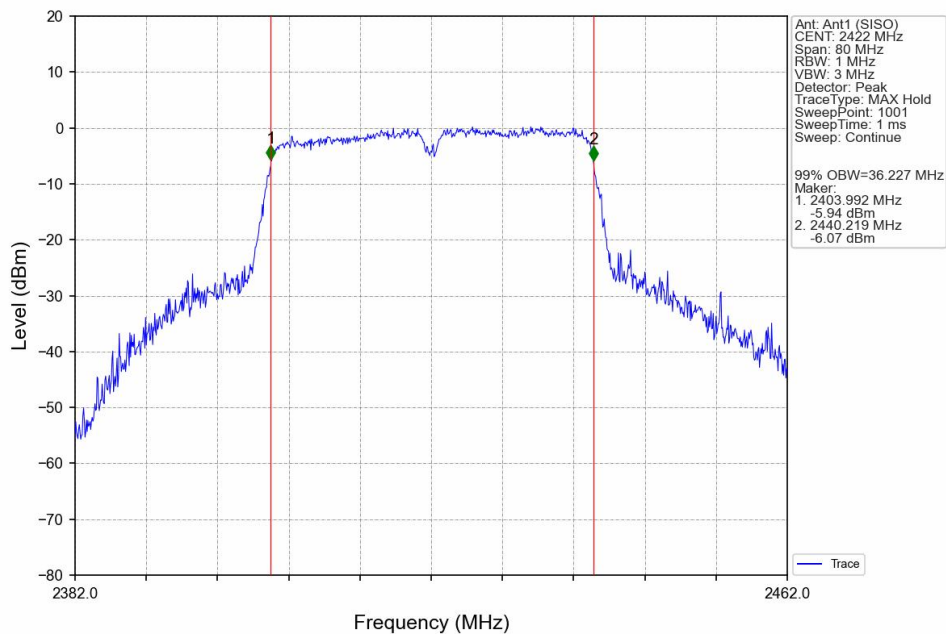
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



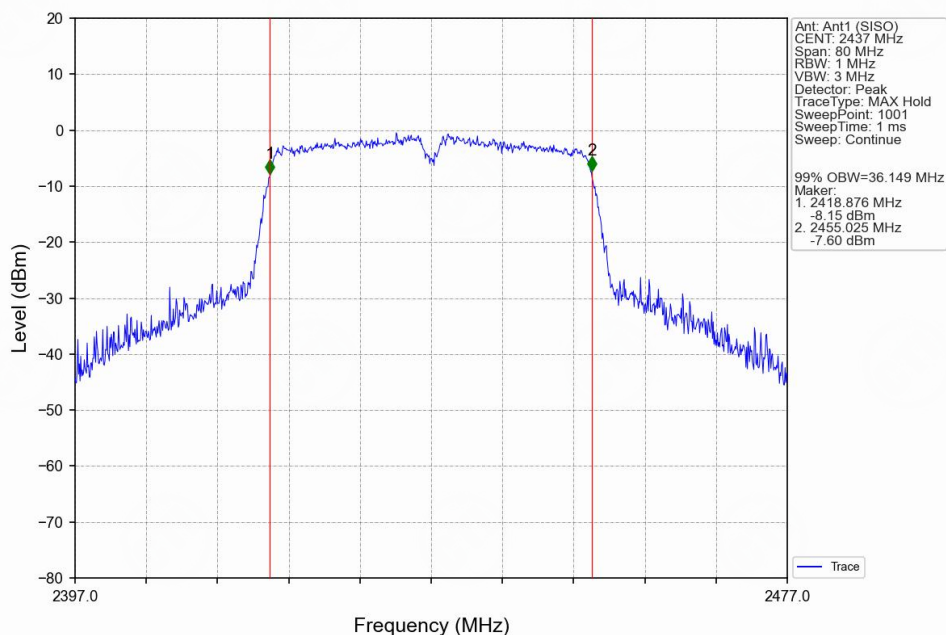
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



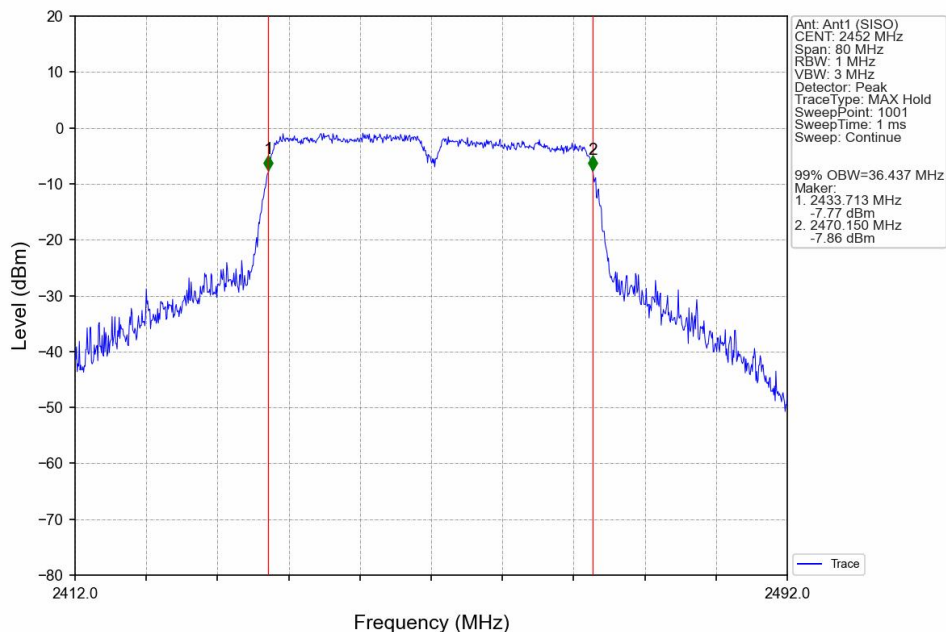
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2.2.2 6dB BW

