

Appendix 2.4G Wi-Fi

Content

1. Duty Cycle	4
1.1 Test Result	4
1.1.1 Ant1	4
1.2 Test Graph	5
1.2.1 Ant1	5
2. Bandwidth	11
2.1 Test Result	11
2.1.1 OBW	11
2.1.2 6dB BW	11
2.2 Test Graph	12
2.2.1 OBW	12
2.2.2 6dB BW	18
3. Maximum Conducted Output Power	24
3.1 Test Result	24
3.1.1 Power	24
4. Maximum Power Spectral Density	25
4.1 Test Result	25
4.1.1 PSD	25
4.2 Test Graph	26
4.2.1 PSD	26
5. Unwanted Emissions In Non-restricted Frequency Bands	32
5.1 Test Result	32
5.1.1 Ref	32
5.1.2 CSE	32

5.2 Test Graph 33

5.2.1 Ref 33

5.2.2 CSE 39

1. Duty Cycle

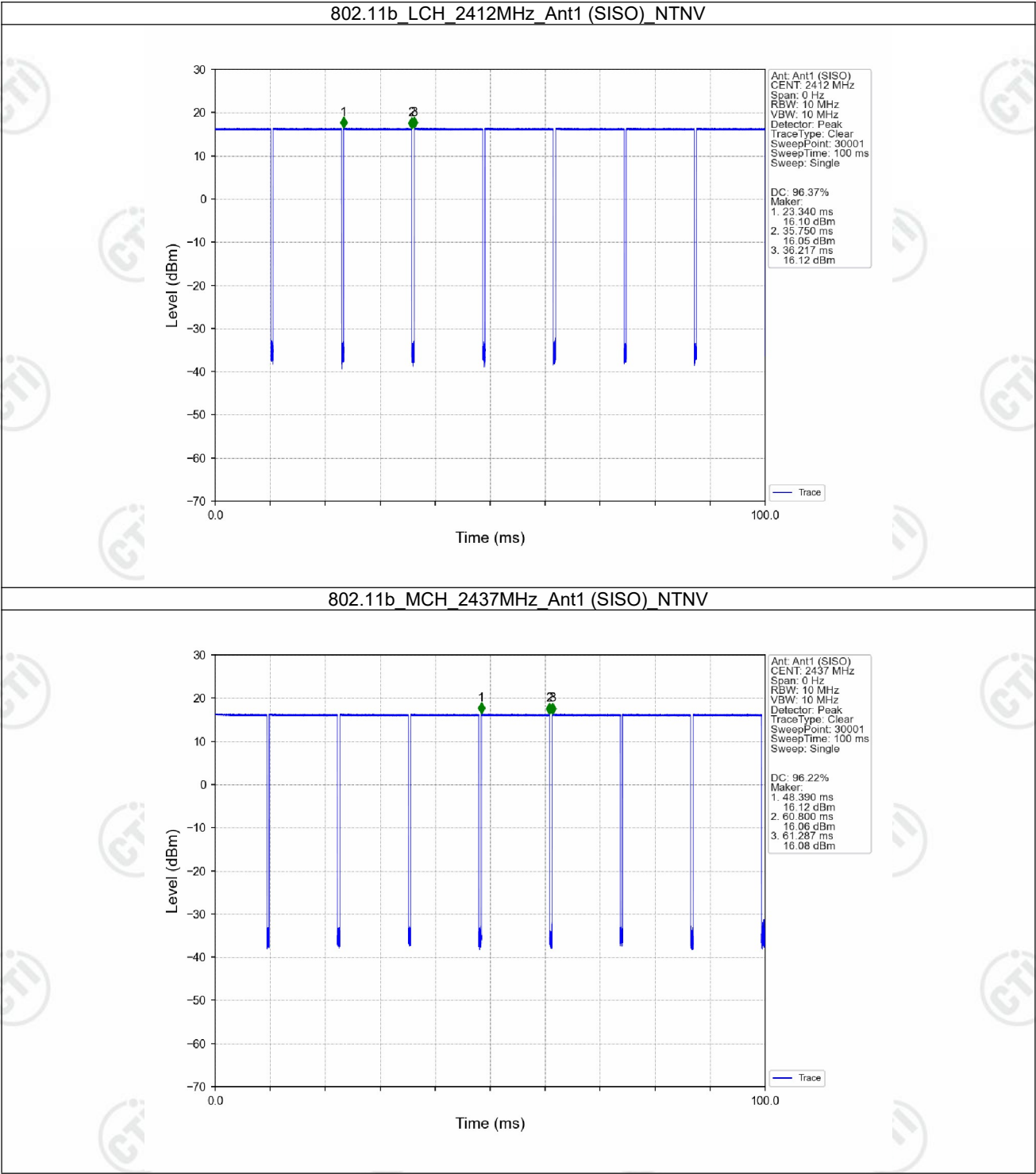
1.1 Test Result

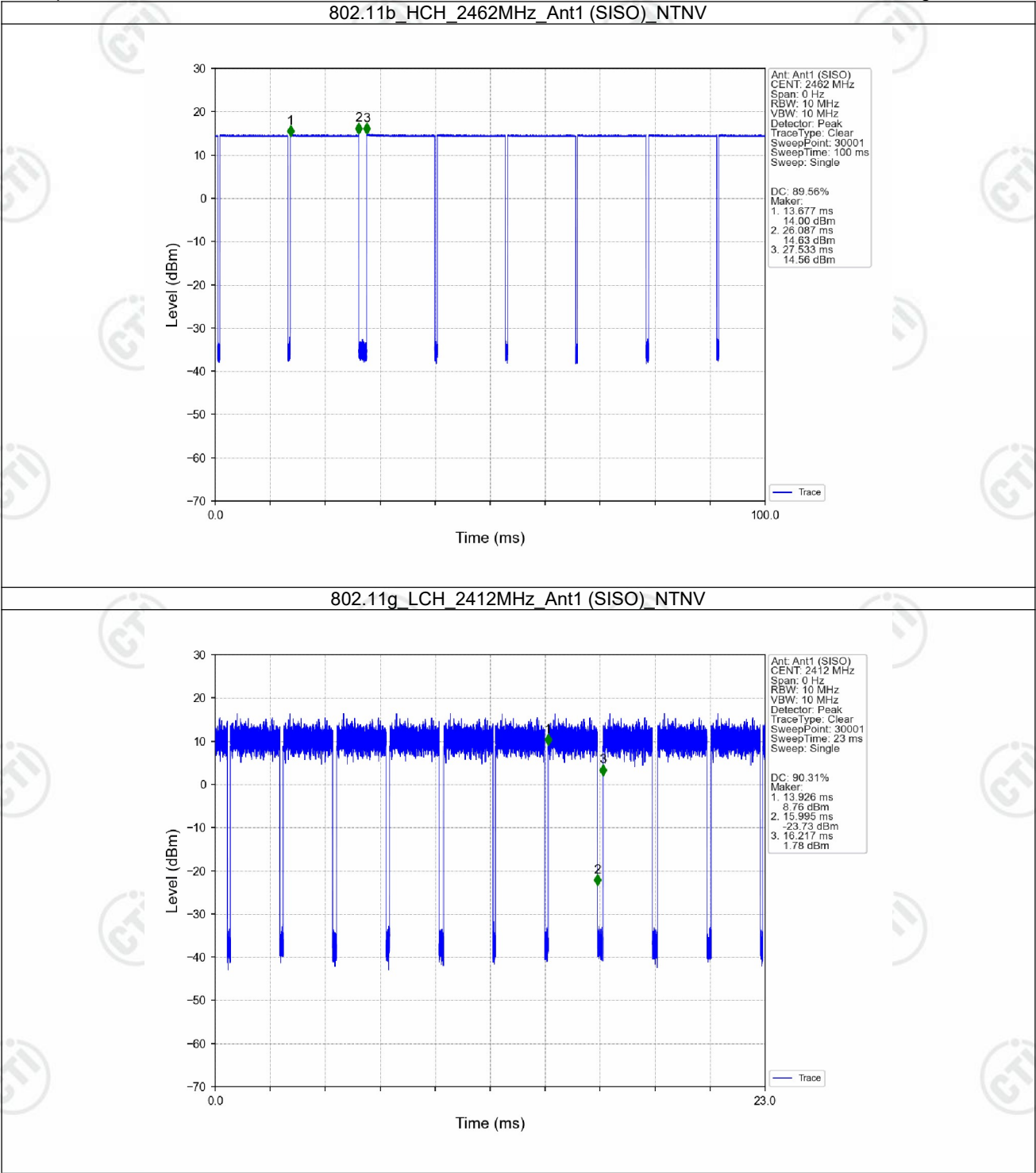
1.1.1 Ant1

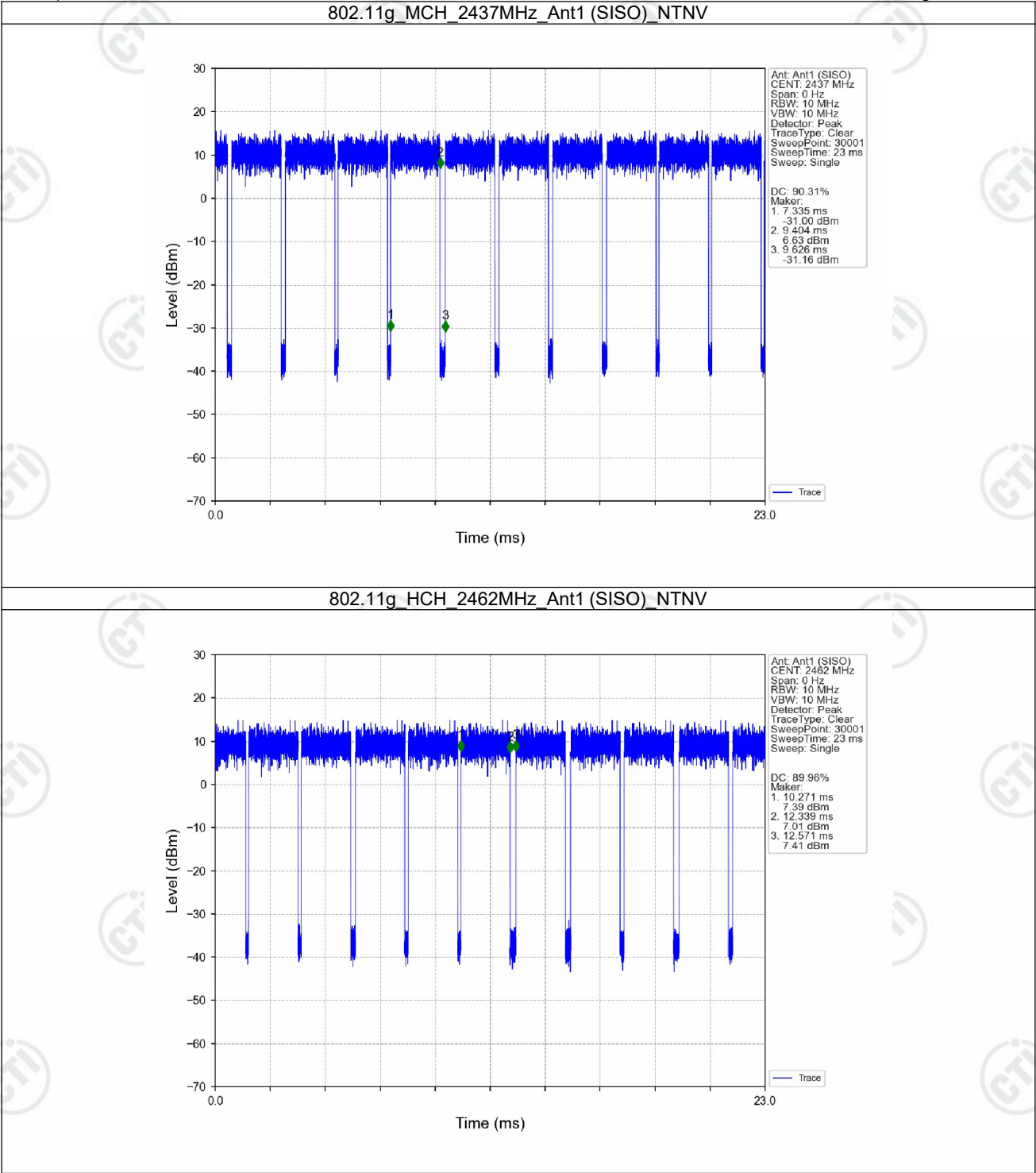
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.410	12.877	96.37	0.16	0.76
		2437	12.410	12.897	96.22	0.17	0.98
		2462	12.410	13.856	89.56	0.48	7.70
802.11g	SISO	2412	2.069	2.291	90.31	0.44	5.25
		2437	2.069	2.291	90.31	0.44	4.11
		2462	2.069	2.300	89.96	0.46	4.08
802.11n (HT20)	SISO	2412	1.916	2.147	89.24	0.49	5.95
		2437	1.917	2.128	90.08	0.45	3.55
		2462	1.917	2.111	90.81	0.42	4.06
802.11n (HT40)	SISO	2422	0.944	1.175	80.34	0.95	9.67
		2437	0.945	1.167	80.98	0.92	9.83
		2452	0.944	1.157	81.59	0.88	9.18

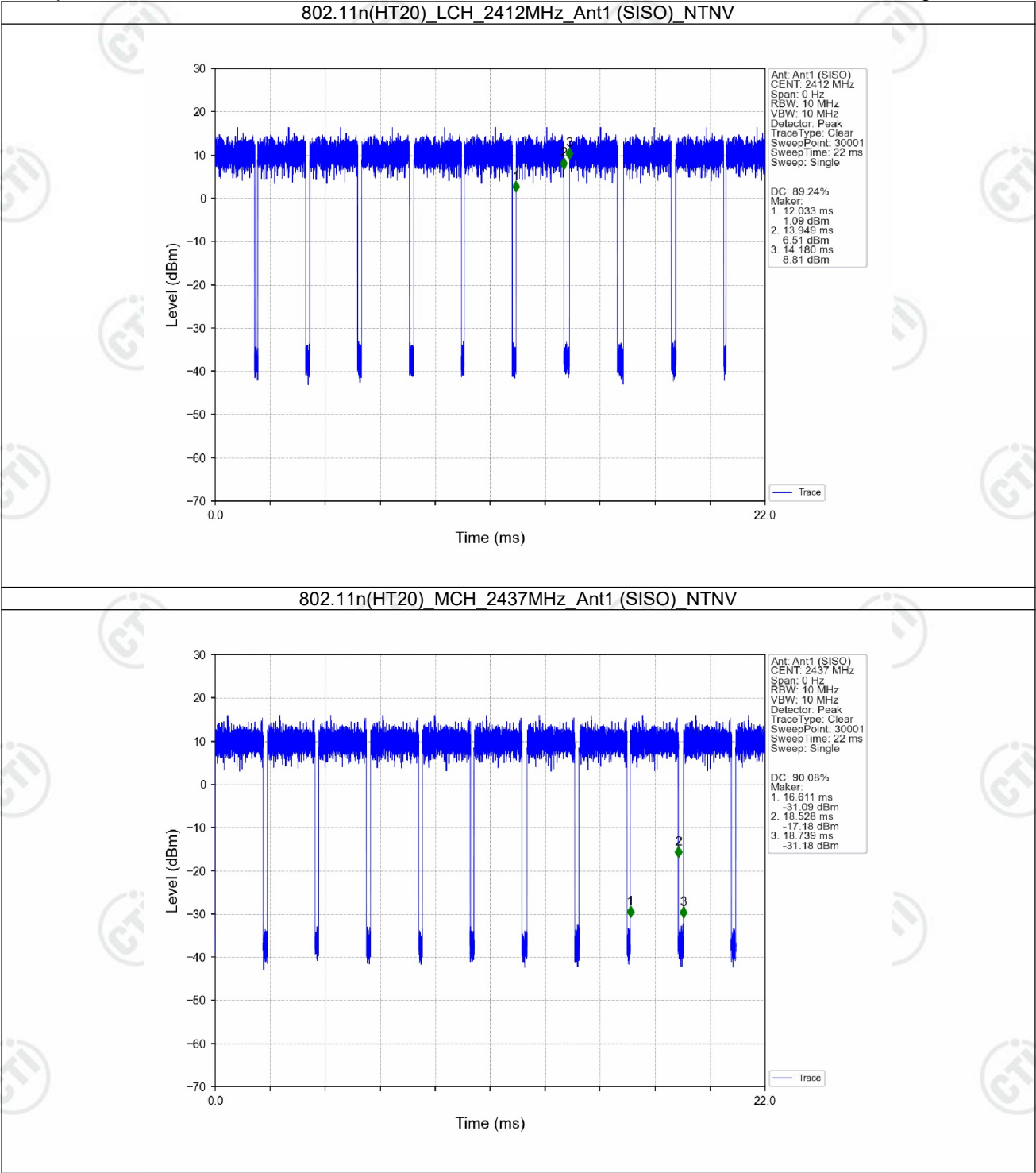
1.2 Test Graph

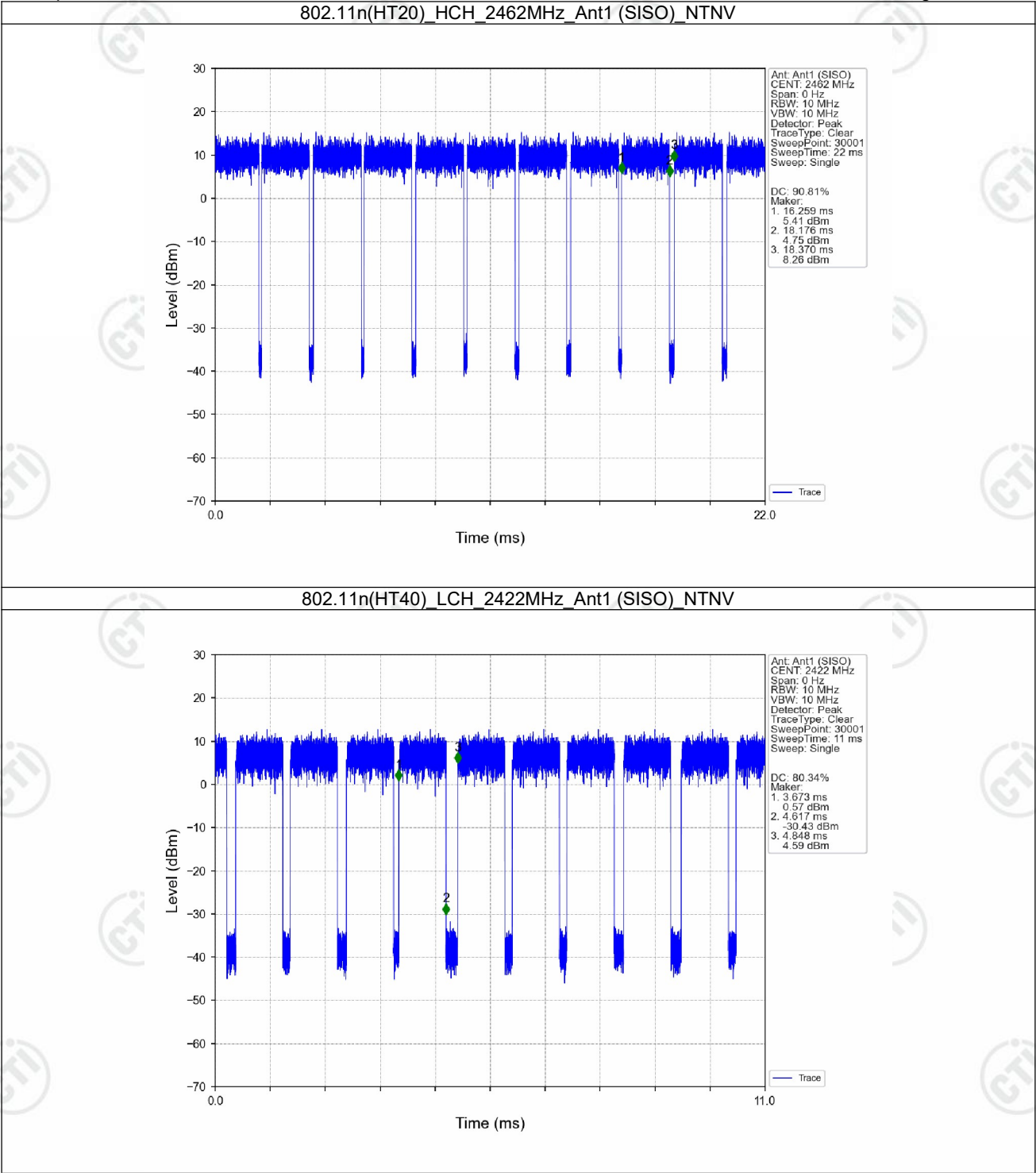
1.2.1 Ant1



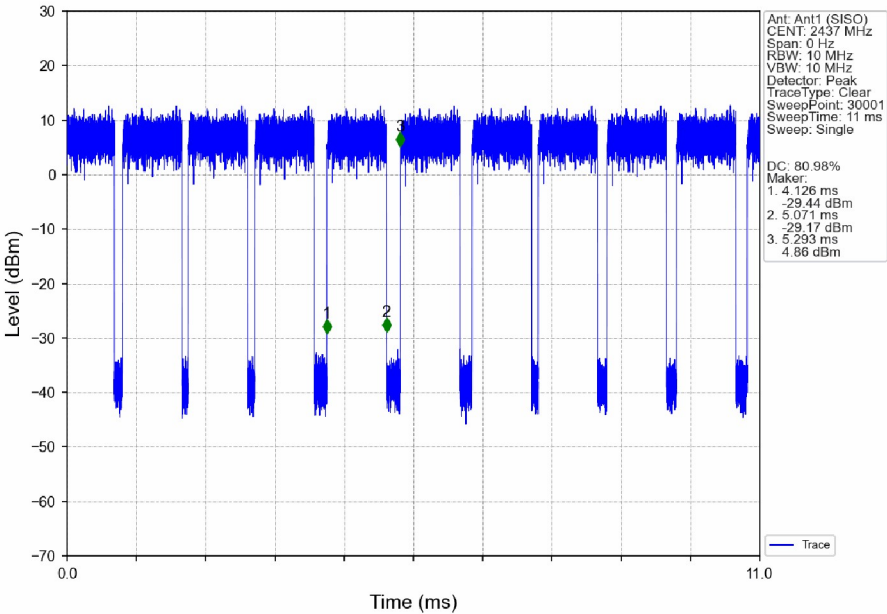




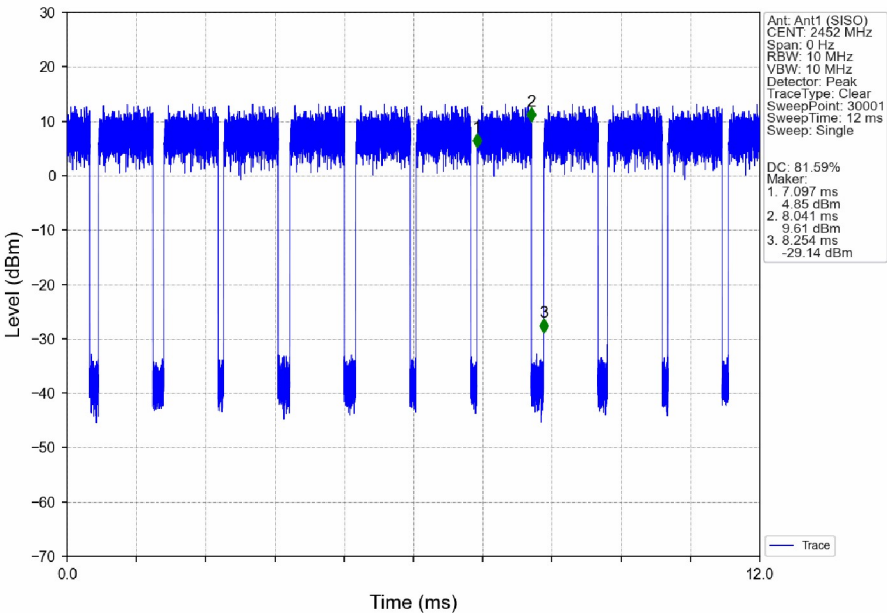




802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

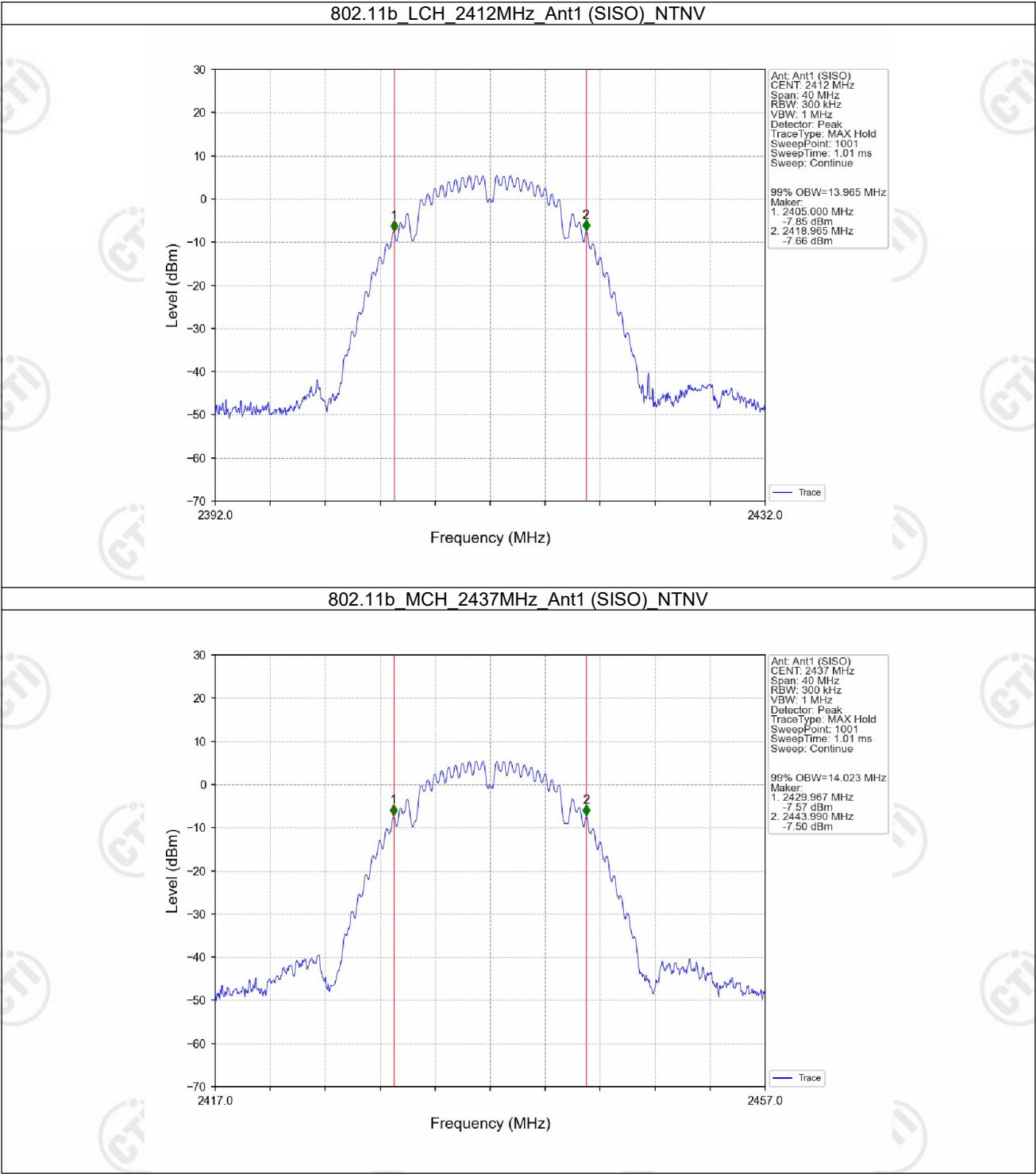
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.965	/	Pass
		2437	1	14.023	/	Pass
		2462	1	14.004	/	Pass
802.11g	SISO	2412	1	16.734	/	Pass
		2437	1	16.584	/	Pass
		2462	1	16.673	/	Pass
802.11n (HT20)	SISO	2412	1	17.716	/	Pass
		2437	1	17.777	/	Pass
		2462	1	17.756	/	Pass
802.11n (HT40)	SISO	2422	1	35.836	/	Pass
		2437	1	35.789	/	Pass
		2452	1	35.797	/	Pass

2.1.2 6dB BW

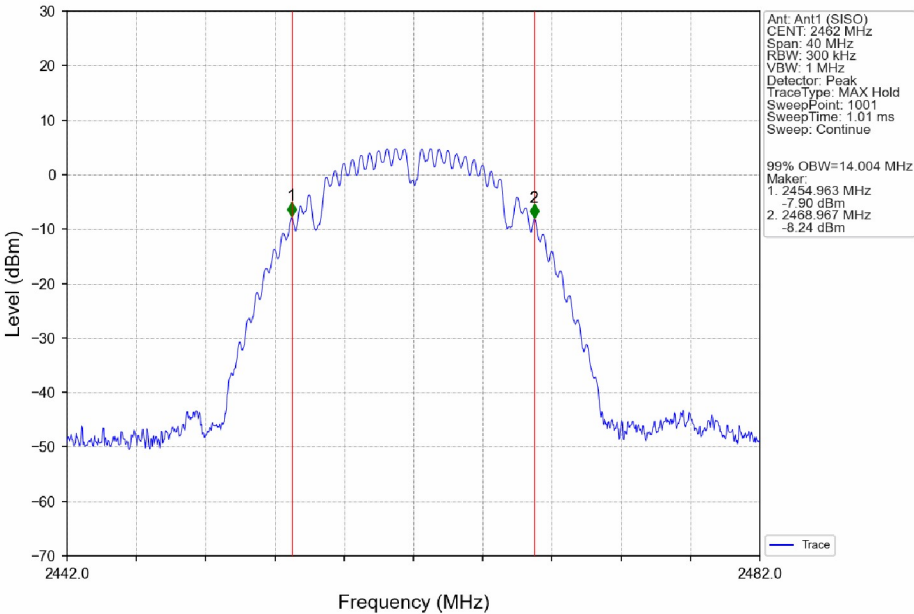
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.151	≥ 0.5	Pass
		2437	1	10.148	≥ 0.5	Pass
		2462	1	10.124	≥ 0.5	Pass
802.11g	SISO	2412	1	16.384	≥ 0.5	Pass
		2437	1	16.348	≥ 0.5	Pass
		2462	1	16.383	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.584	≥ 0.5	Pass
		2437	1	17.603	≥ 0.5	Pass
		2462	1	17.628	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.662	≥ 0.5	Pass
		2437	1	35.840	≥ 0.5	Pass
		2452	1	35.891	≥ 0.5	Pass

2.2 Test Graph

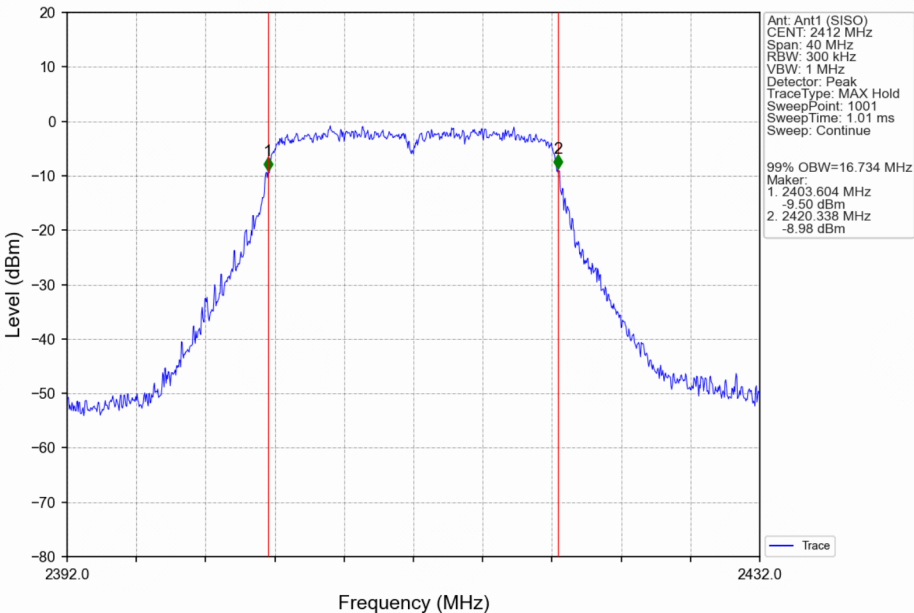
2.2.1 OBW



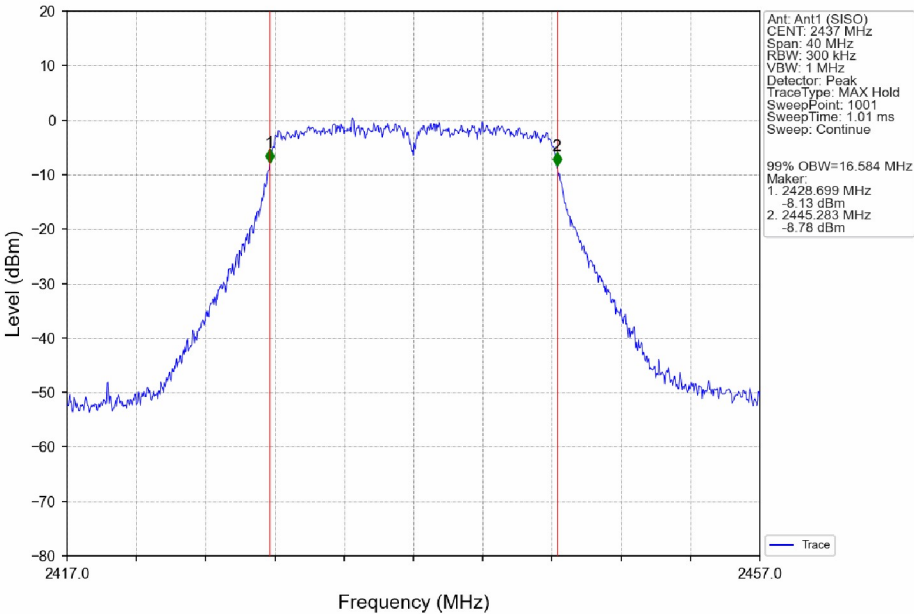
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



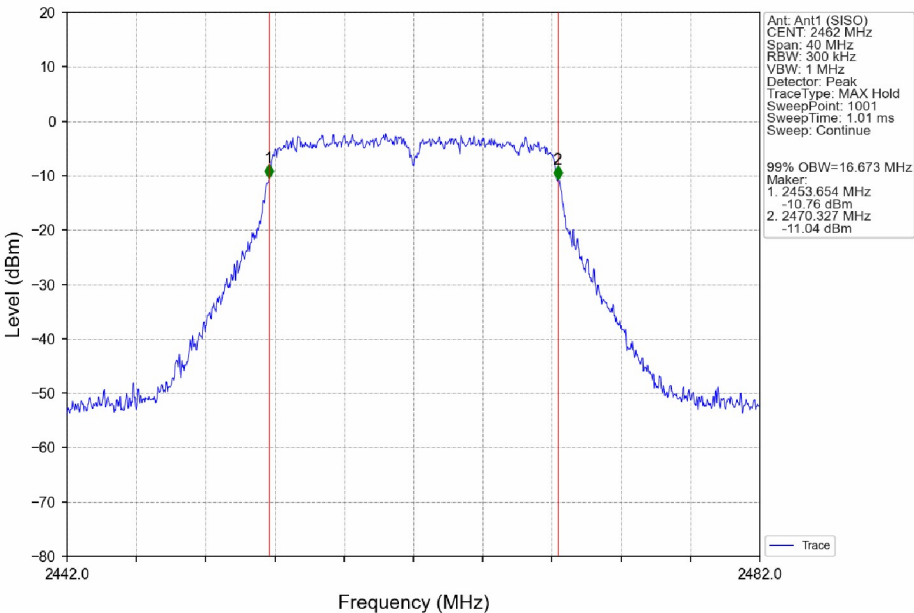
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



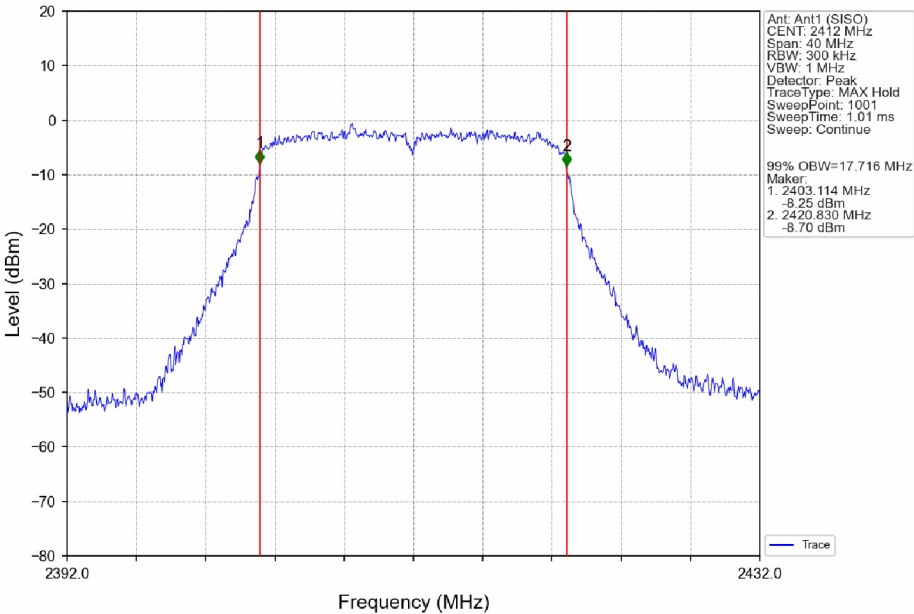
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



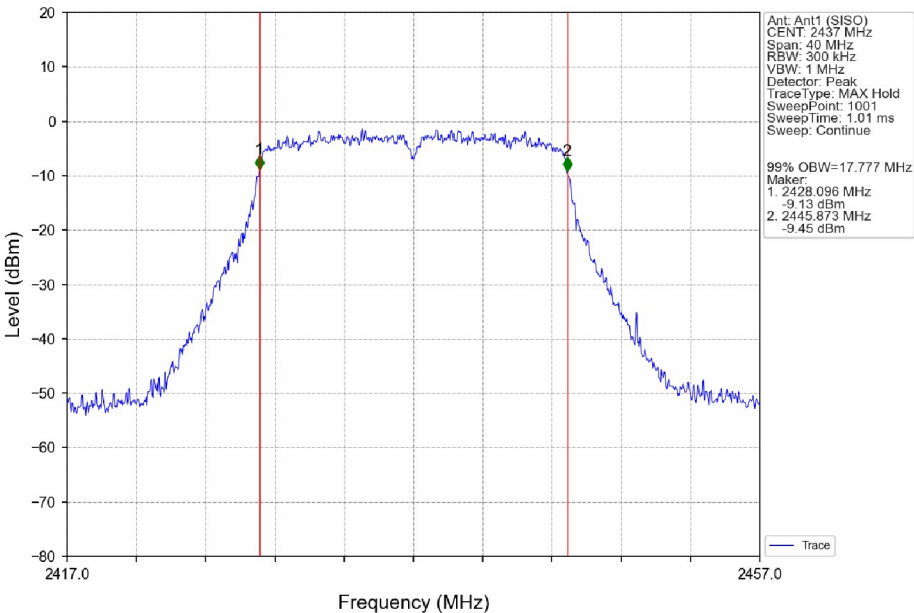
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



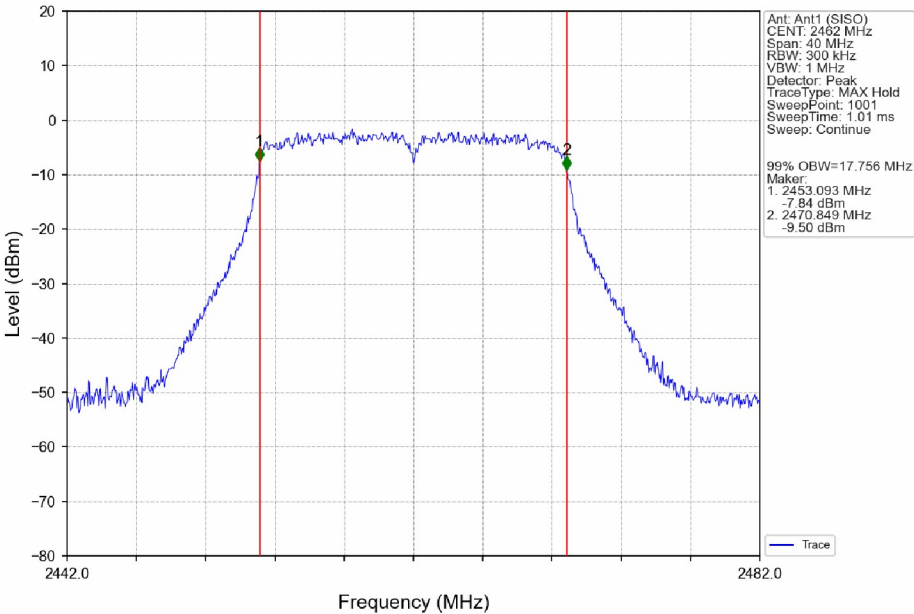
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



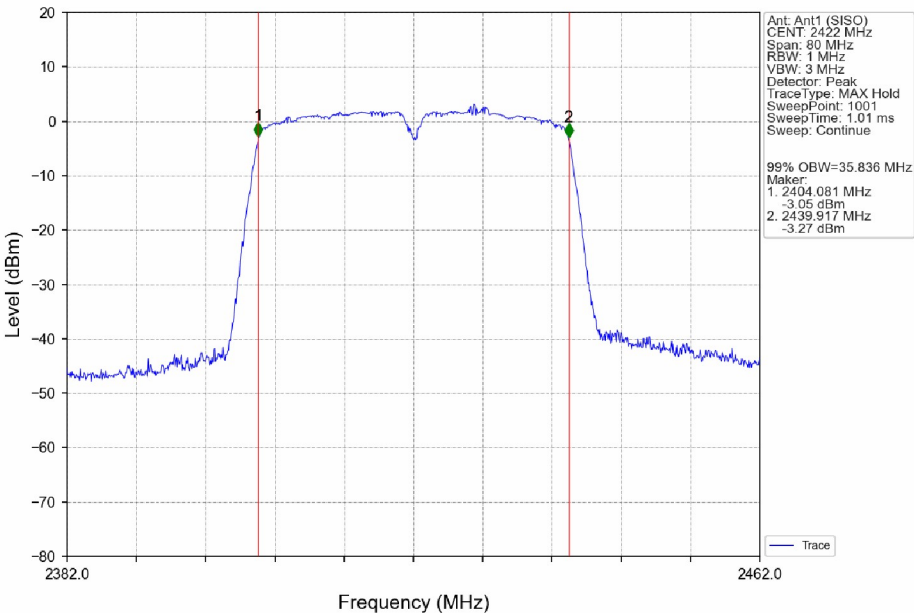
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



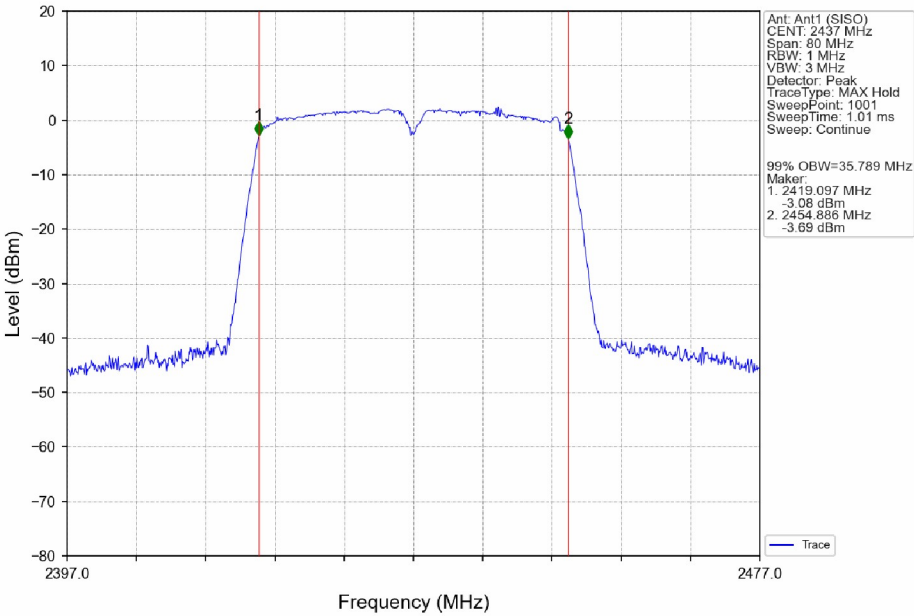
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



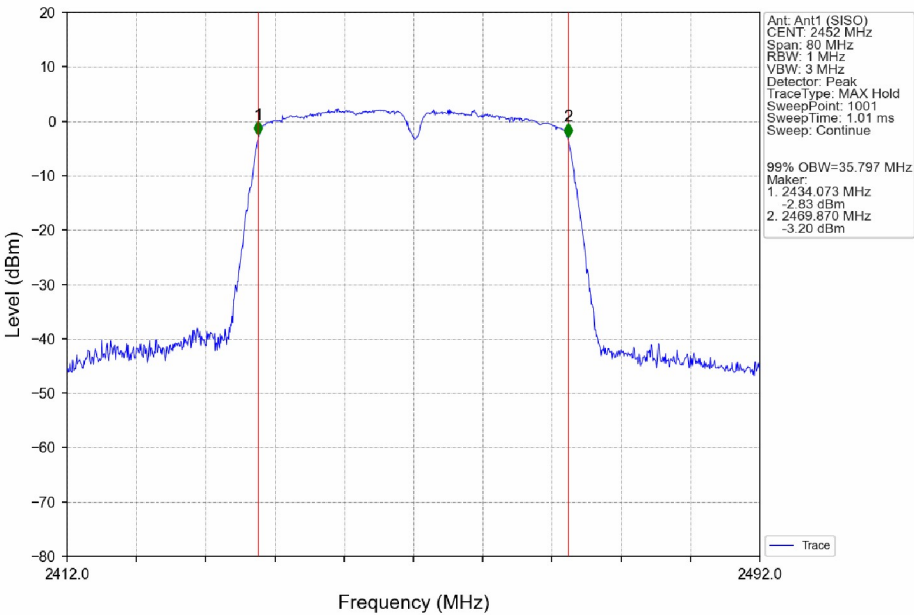
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2.2.2 6dB BW

