

Appendix A for SHEM210500456901

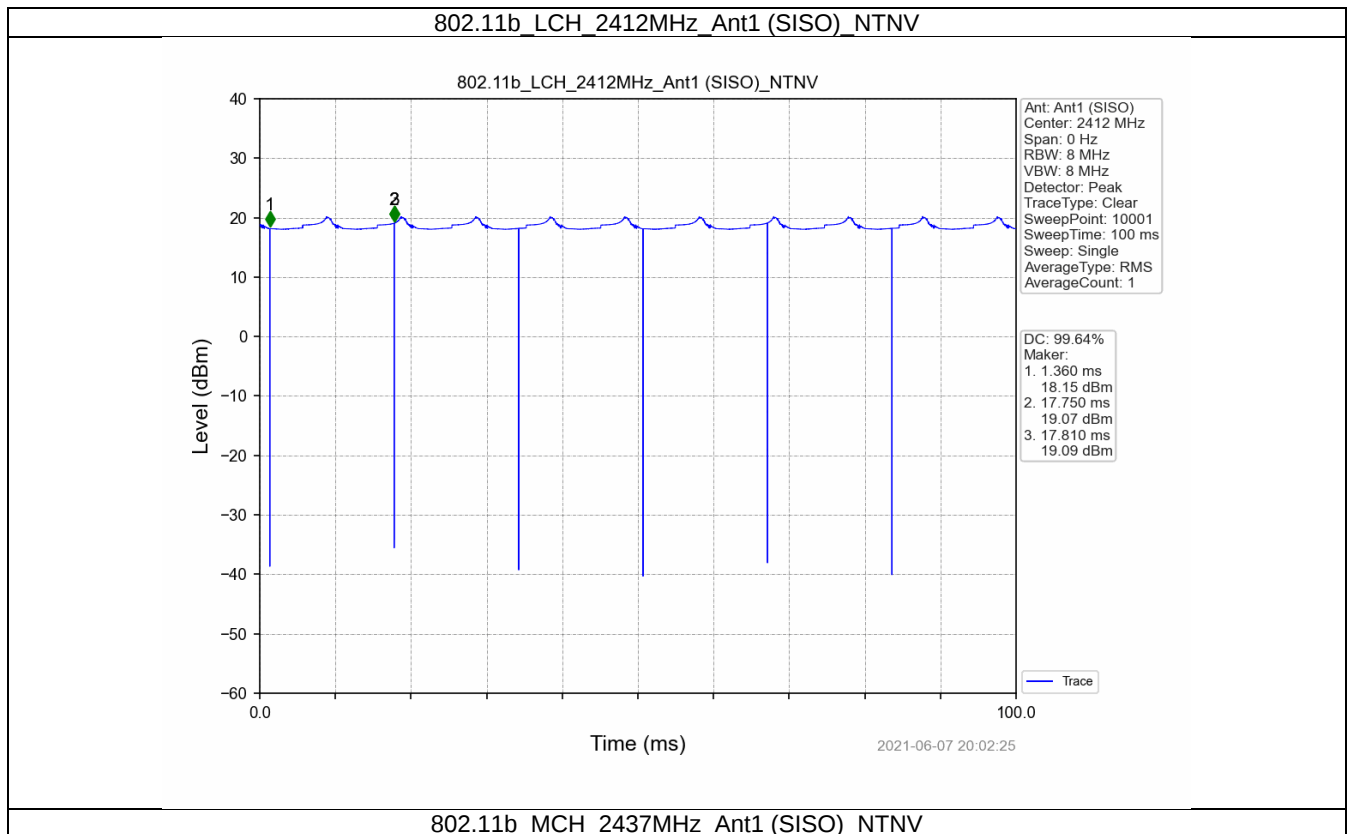
1. Duty Cycle

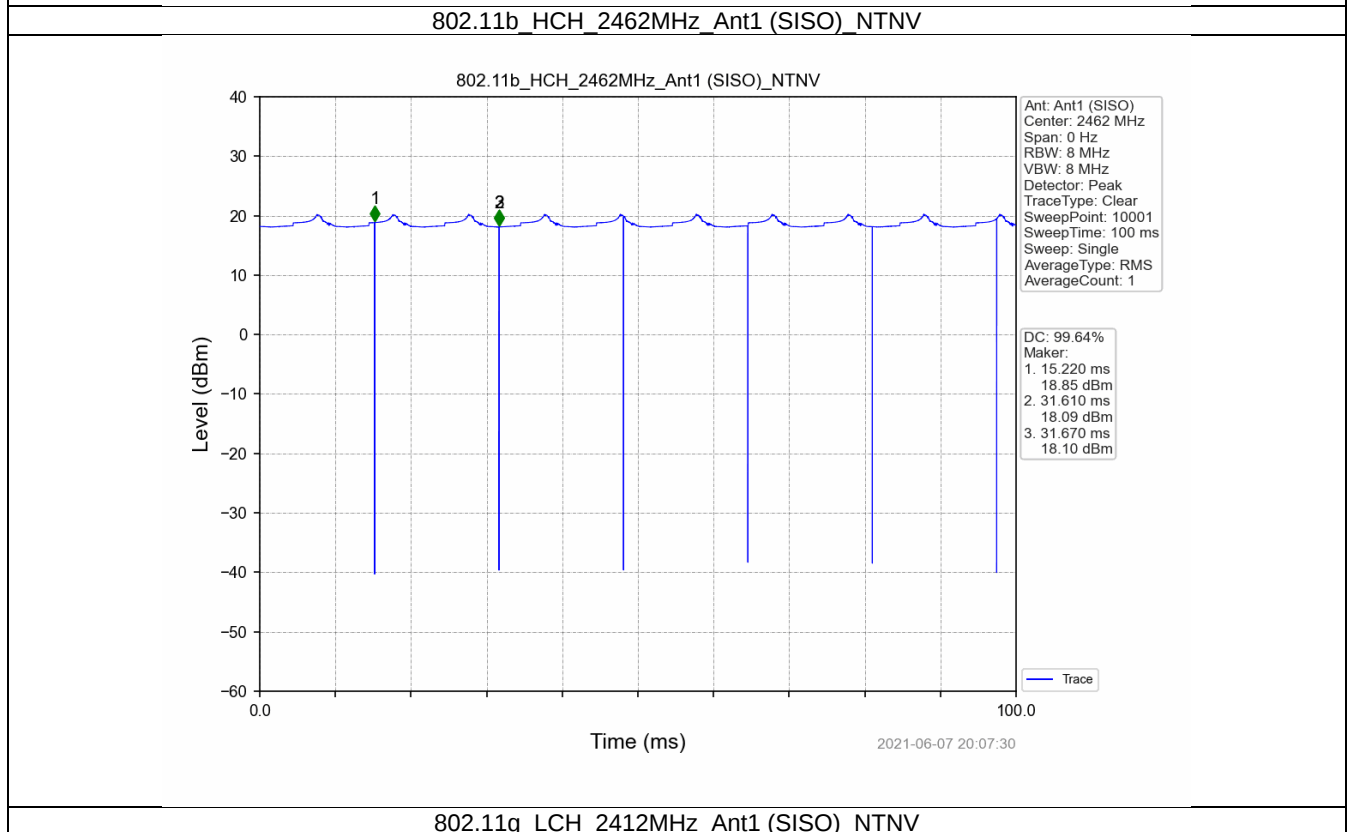
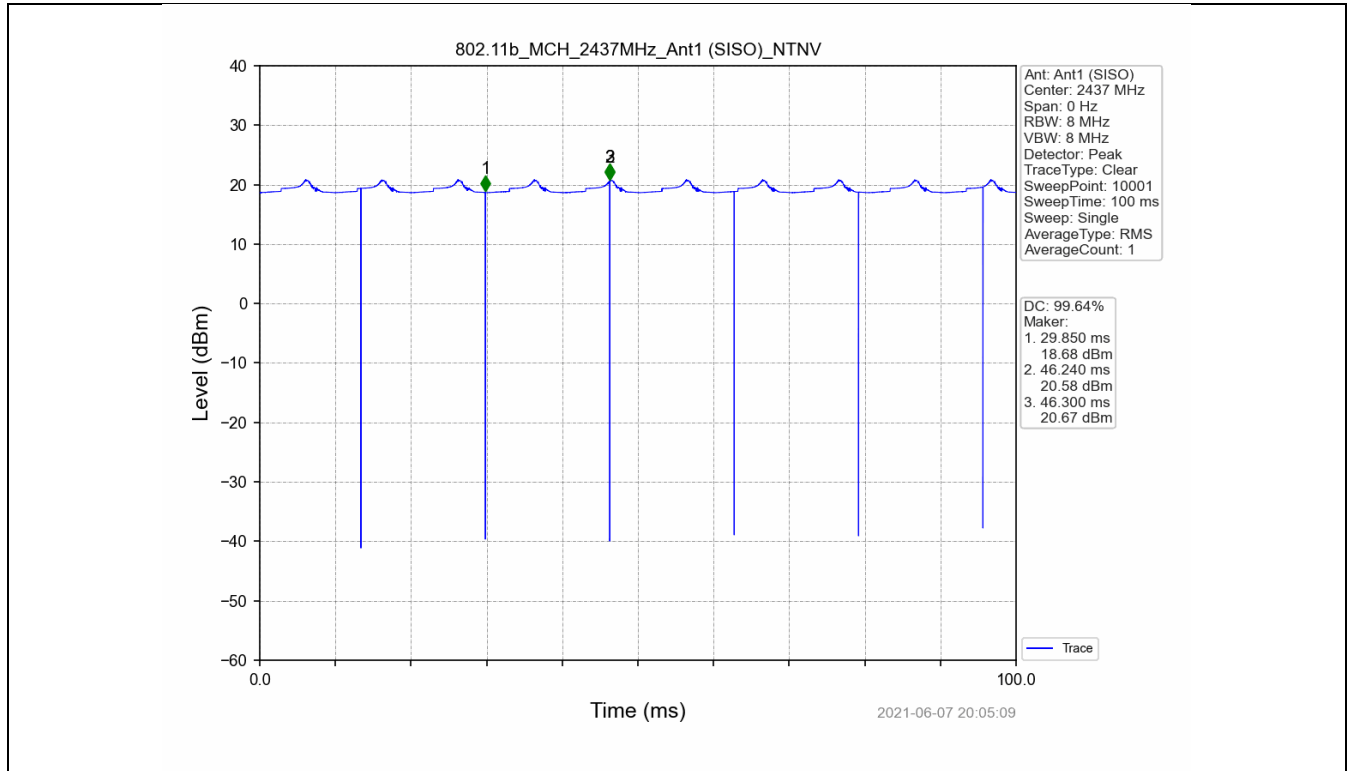
1.1 Ant1

1.1.1 Test Result

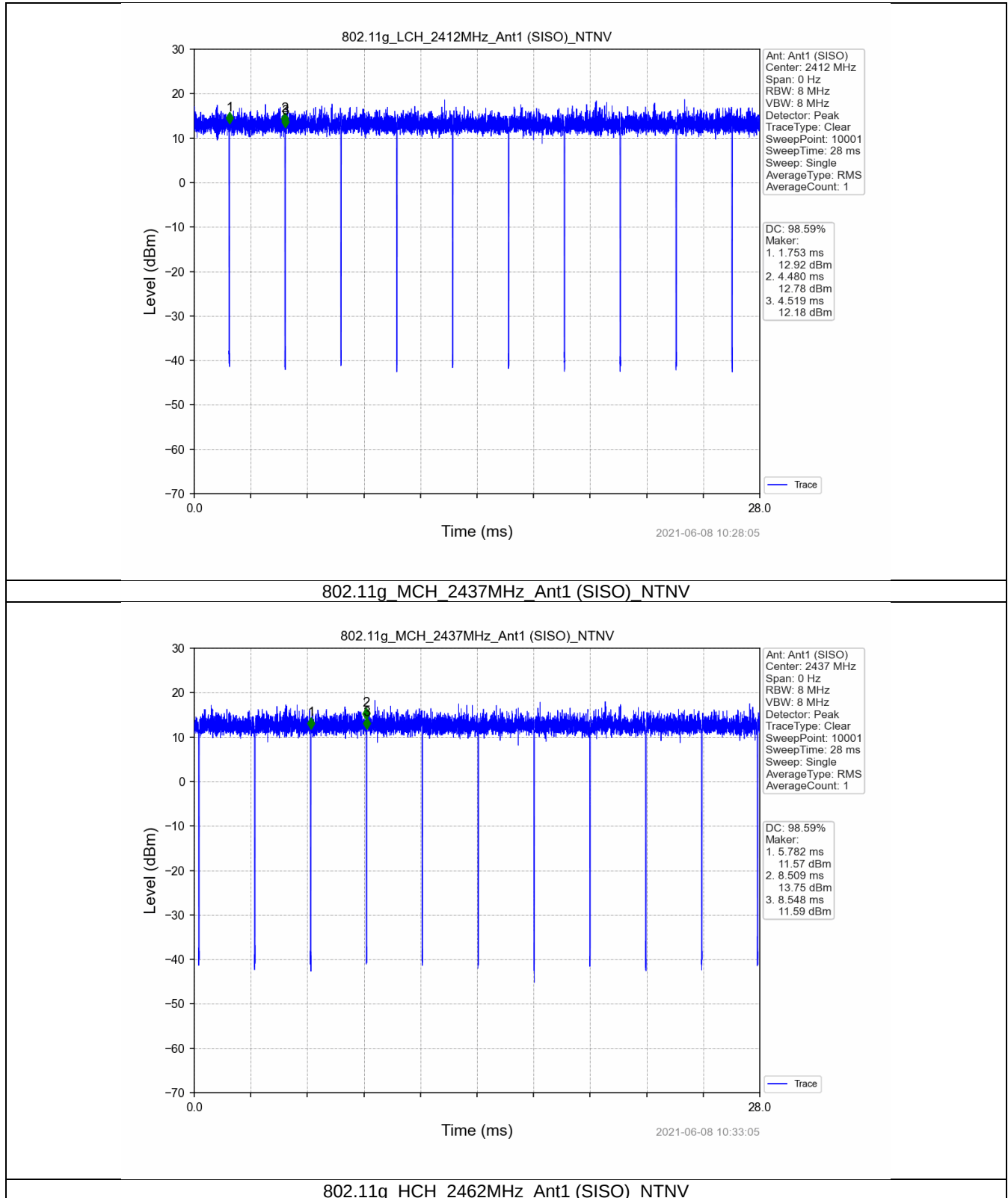
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	16.39	16.45	99.64	0.02	0.06
		2437	/	/	16.39	16.45	99.64	0.02	0.06
		2462	/	/	16.39	16.45	99.64	0.02	0.06
802.11g	SISO	2412	/	/	2.73	2.77	98.59	0.06	0.10
		2437	/	/	2.73	2.77	98.59	0.06	0.10
		2462	/	/	2.73	2.77	98.63	0.06	0.00
802.11n (HT20)	SISO	2412	/	/	2.54	2.57	98.48	0.07	0.10
		2437	/	/	2.53	2.57	98.29	0.07	0.00
		2462	/	/	2.53	2.57	98.48	0.07	0.00

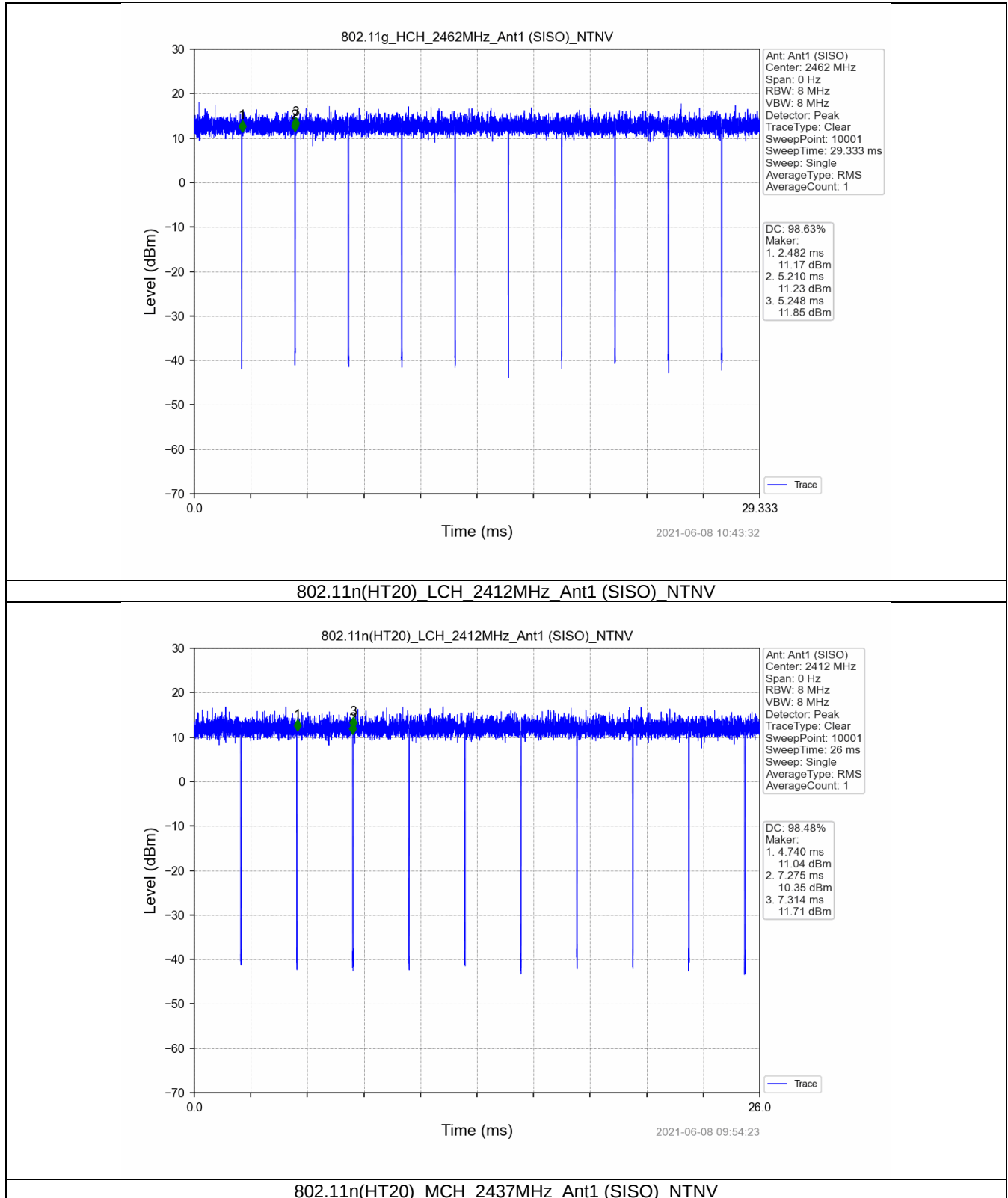
1.1.2 Test Graph

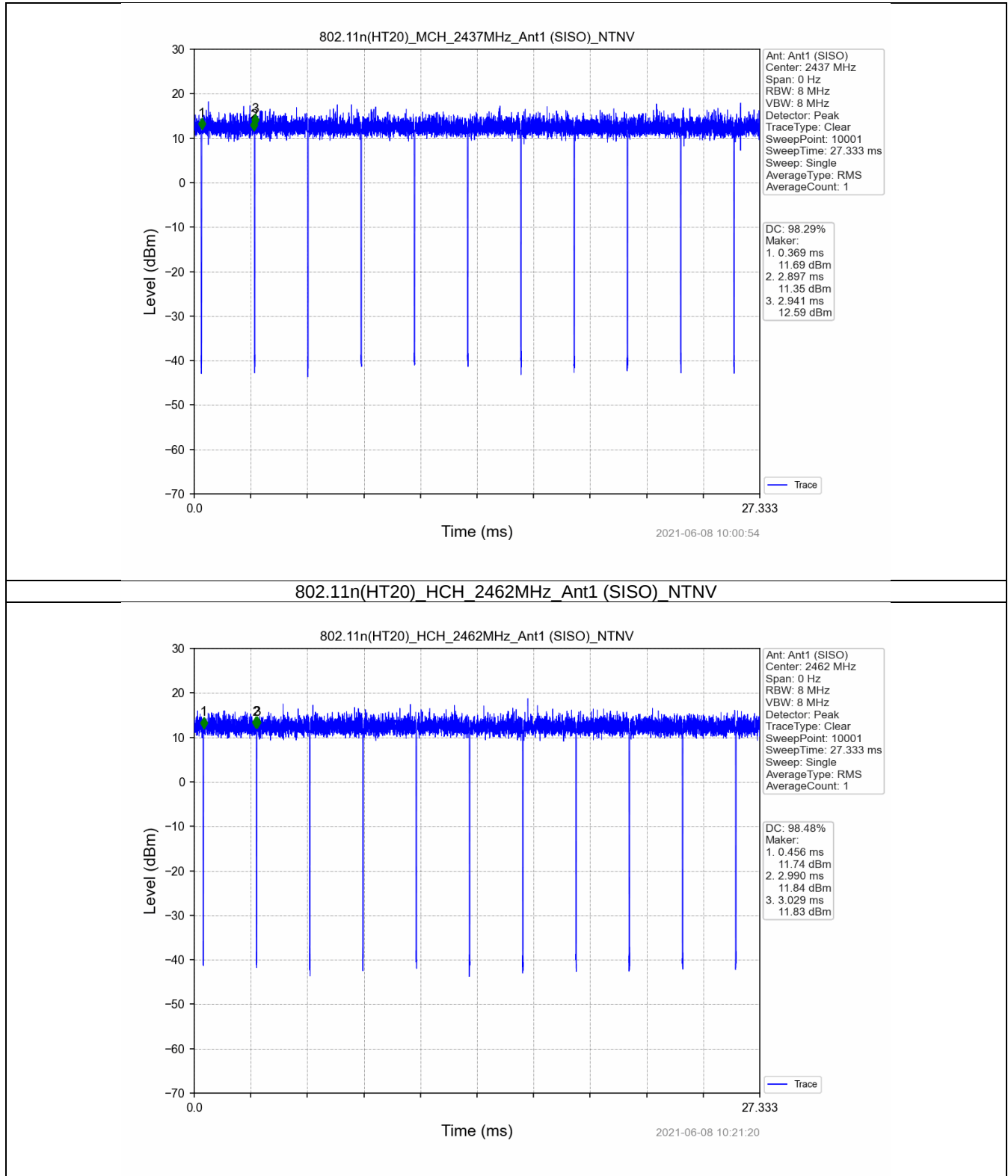




802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV







2. Bandwidth

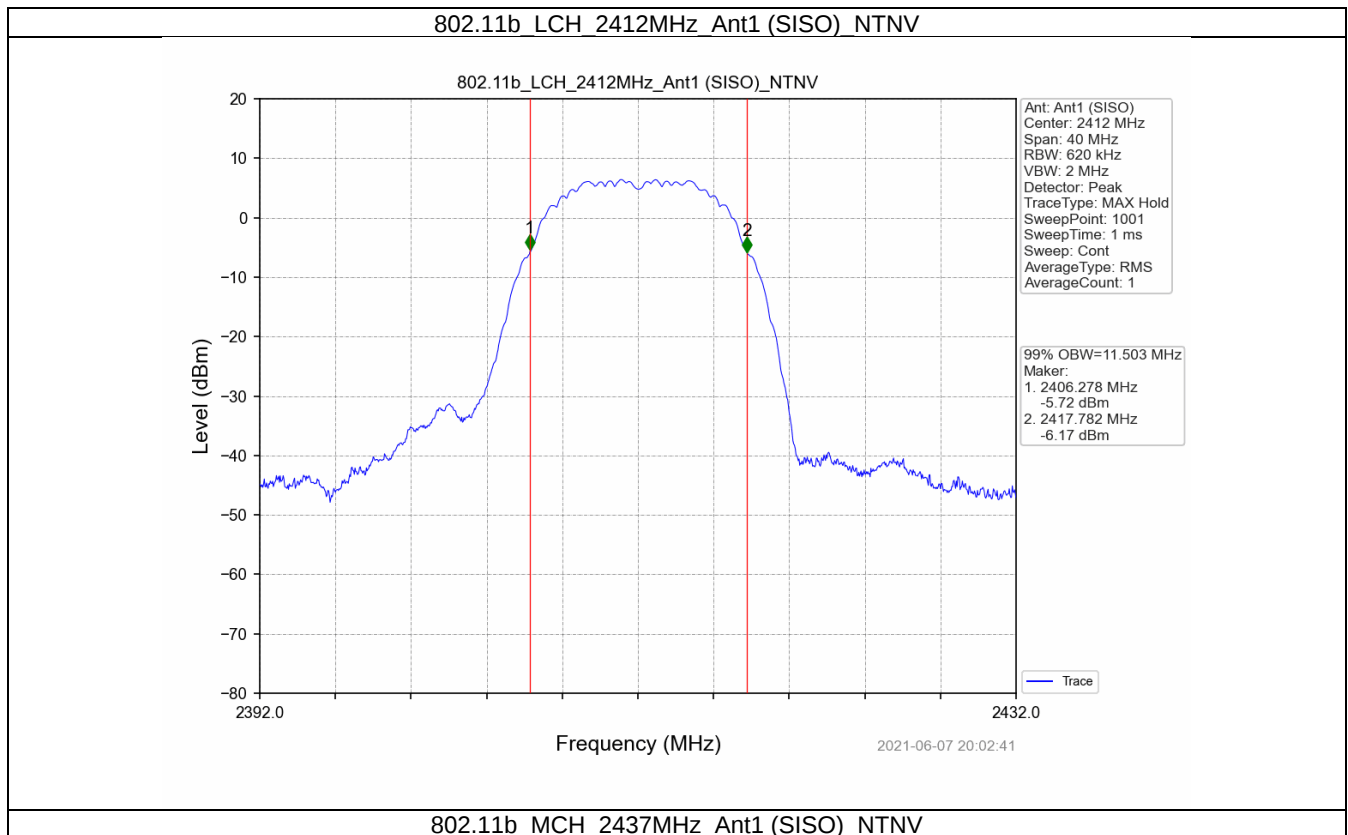
2.1 OBW

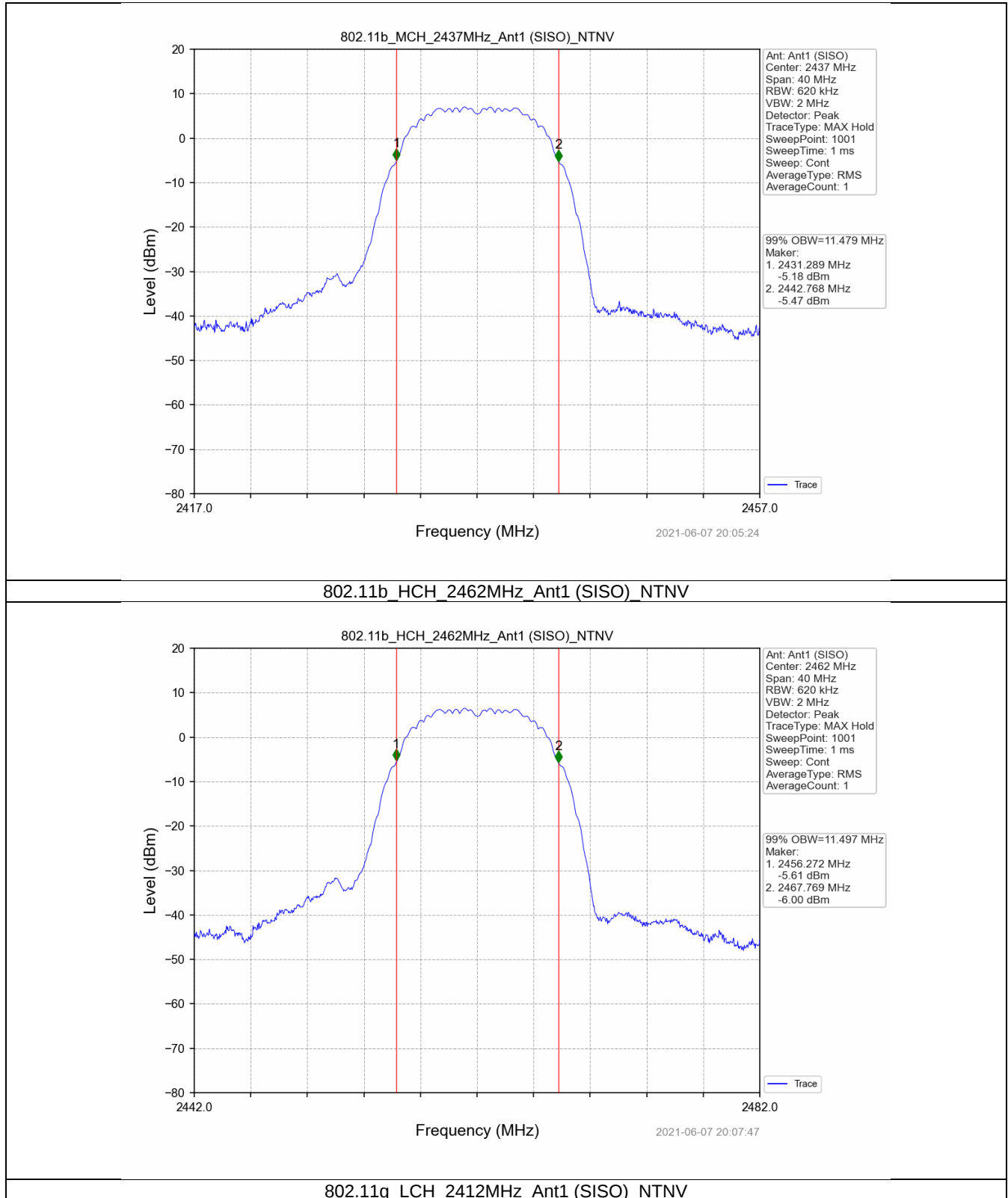
2.1.1 Test Result

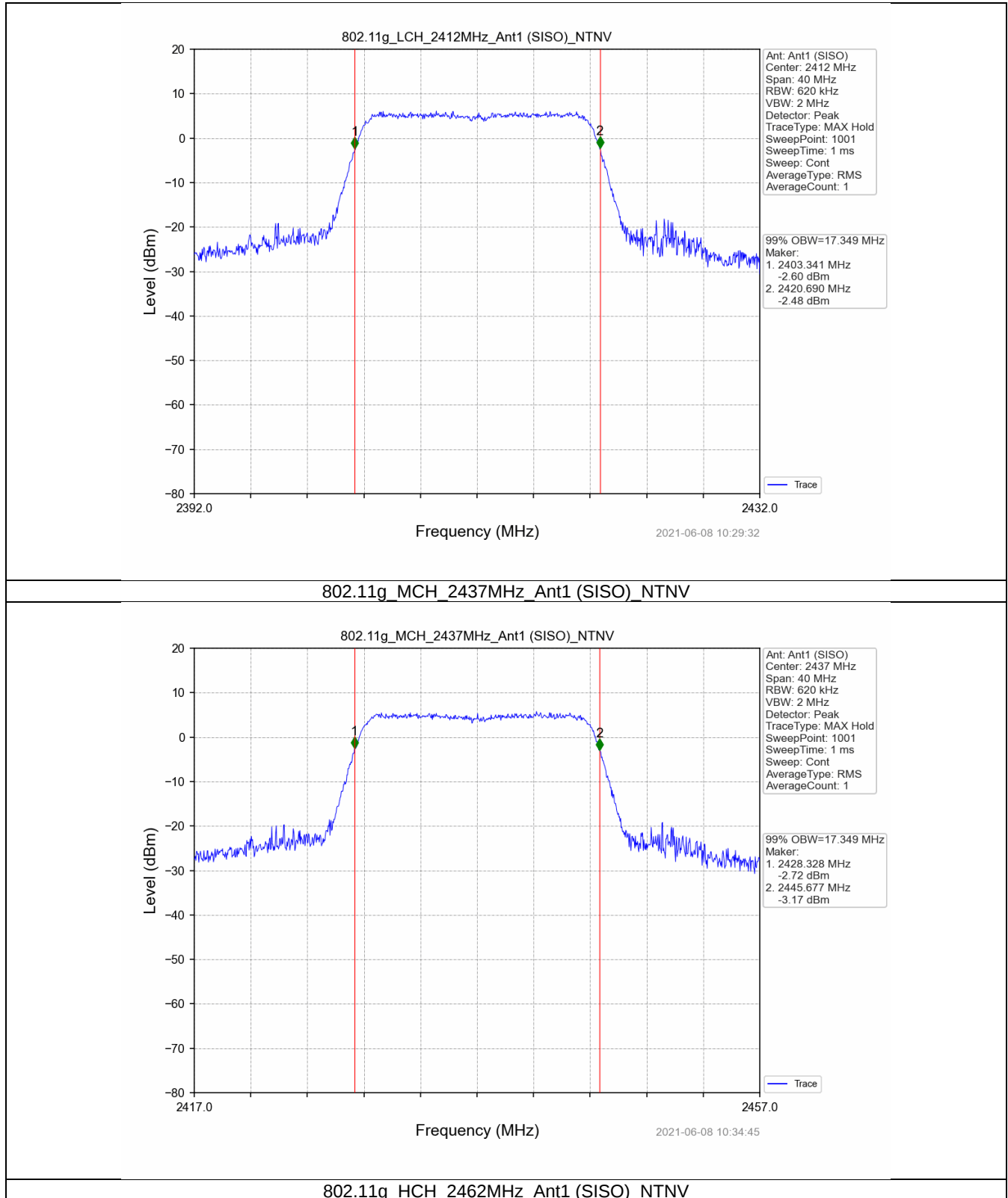
Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	11.503	/	Note1
		2437	/	/	11.479	/	Note1
		2462	/	/	11.497	/	Note1
802.11g	SISO	2412	/	/	17.349	/	Note1
		2437	/	/	17.349	/	Note1
		2462	/	/	17.317	/	Note1
802.11n (HT20)	SISO	2412	/	/	18.194	/	Note1
		2437	/	/	18.218	/	Note1
		2462	/	/	18.263	/	Note1

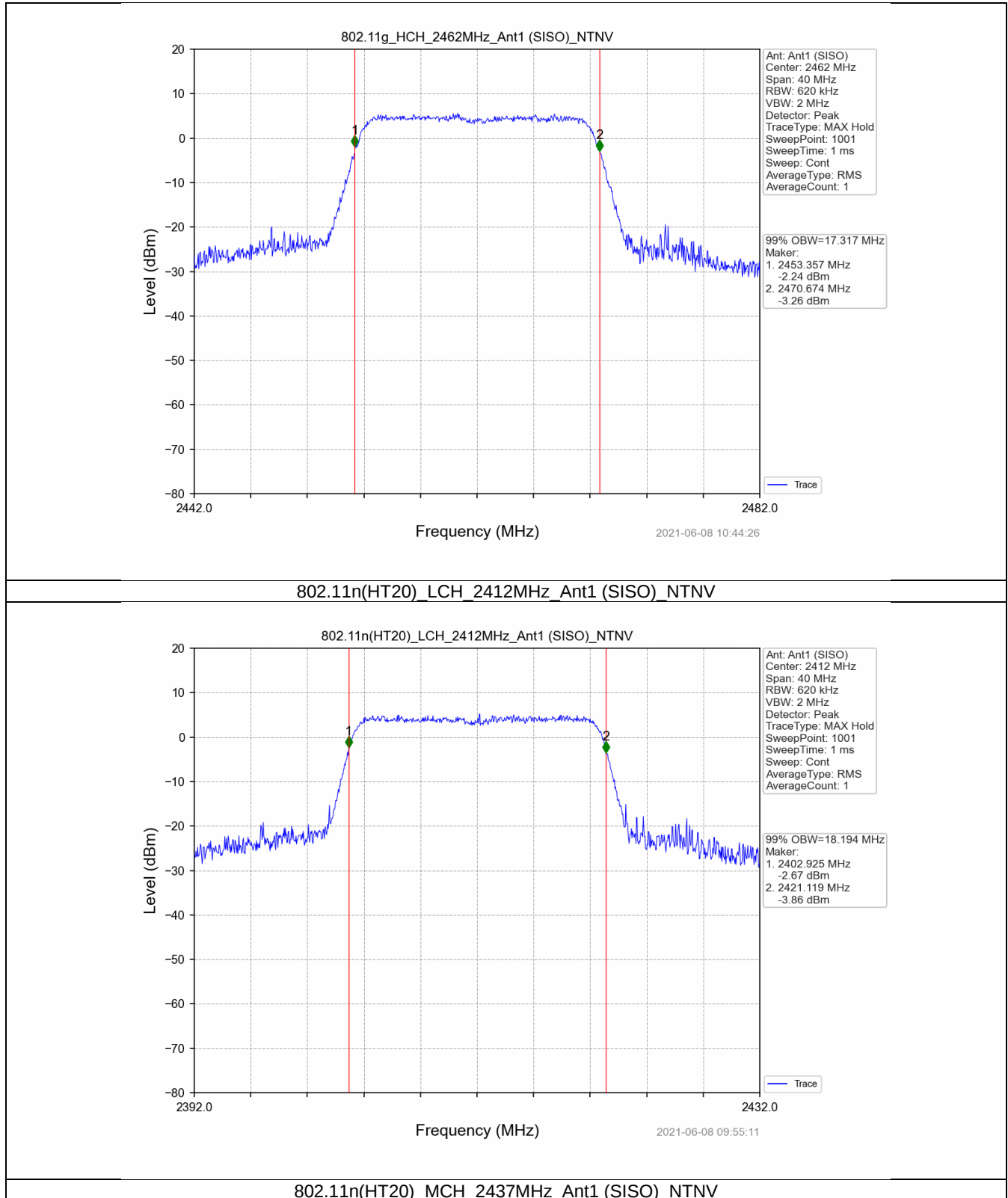
Note1: Only for Report Use

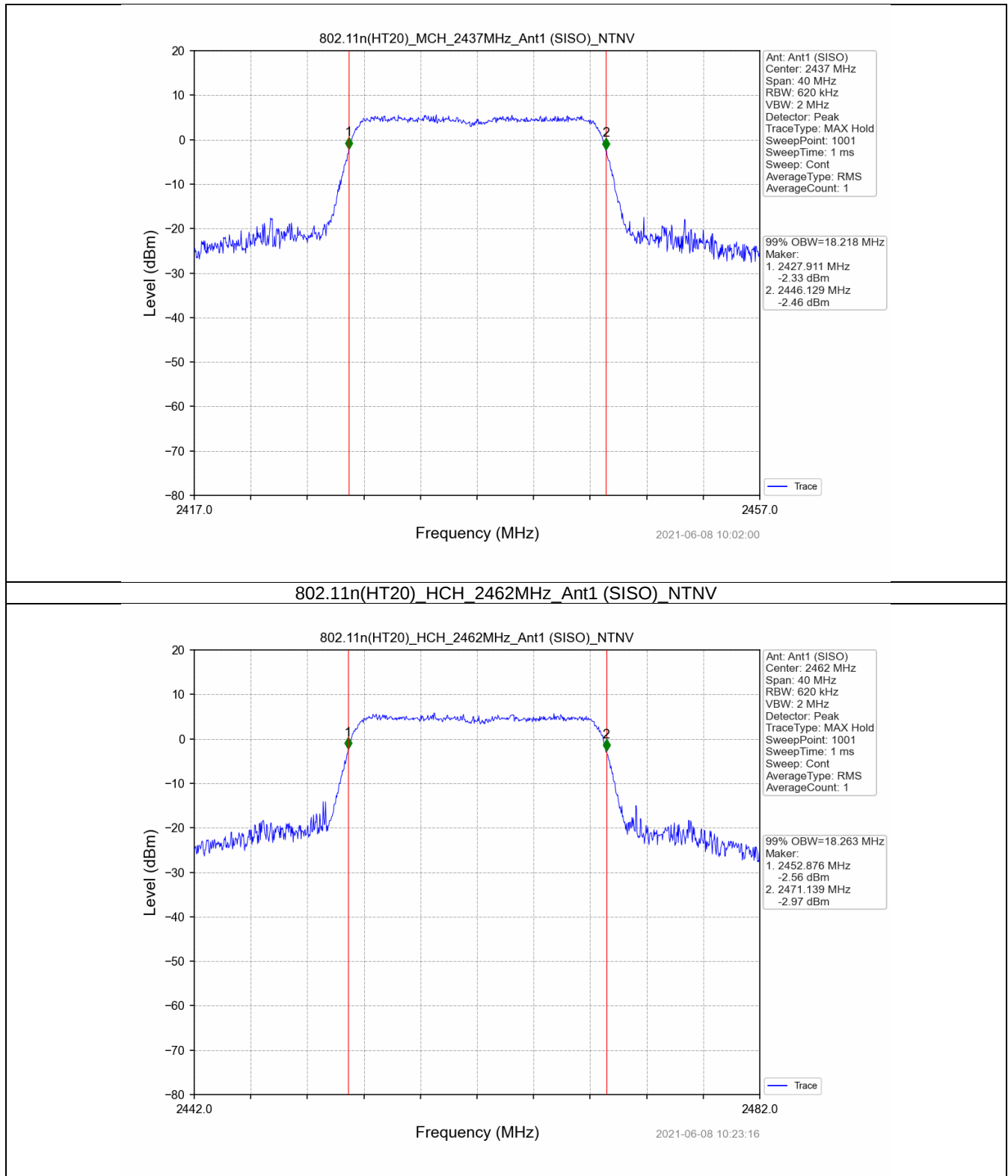
2.1.2 Test Graph









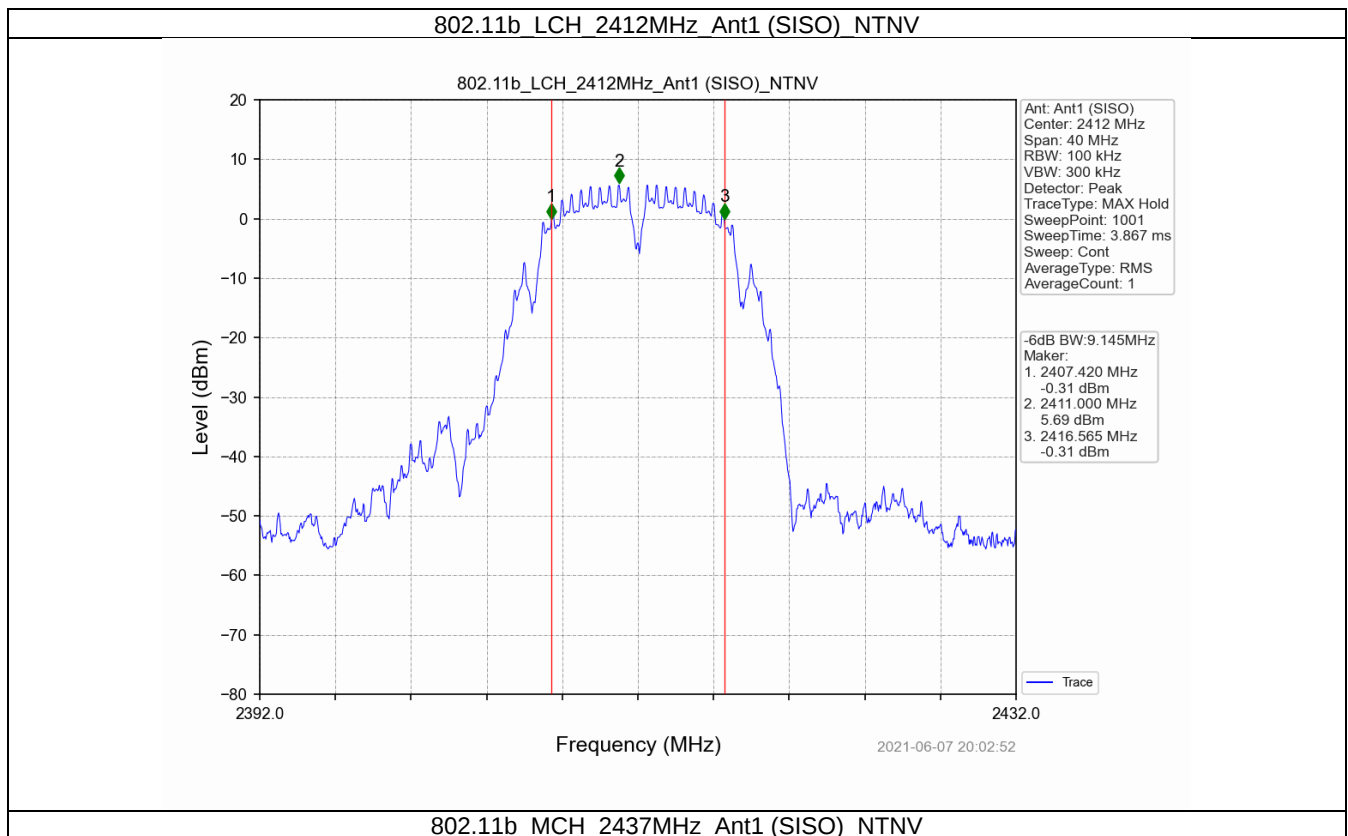


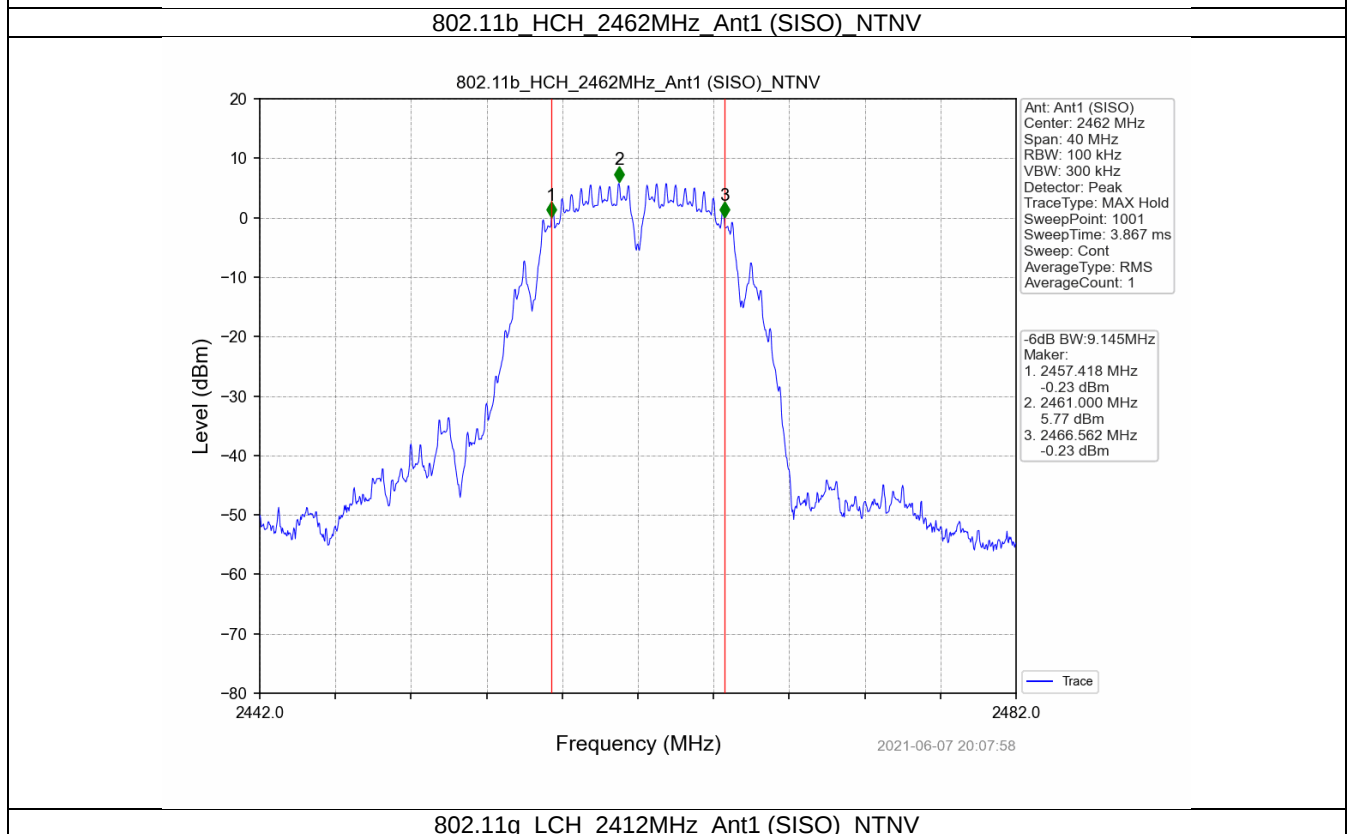
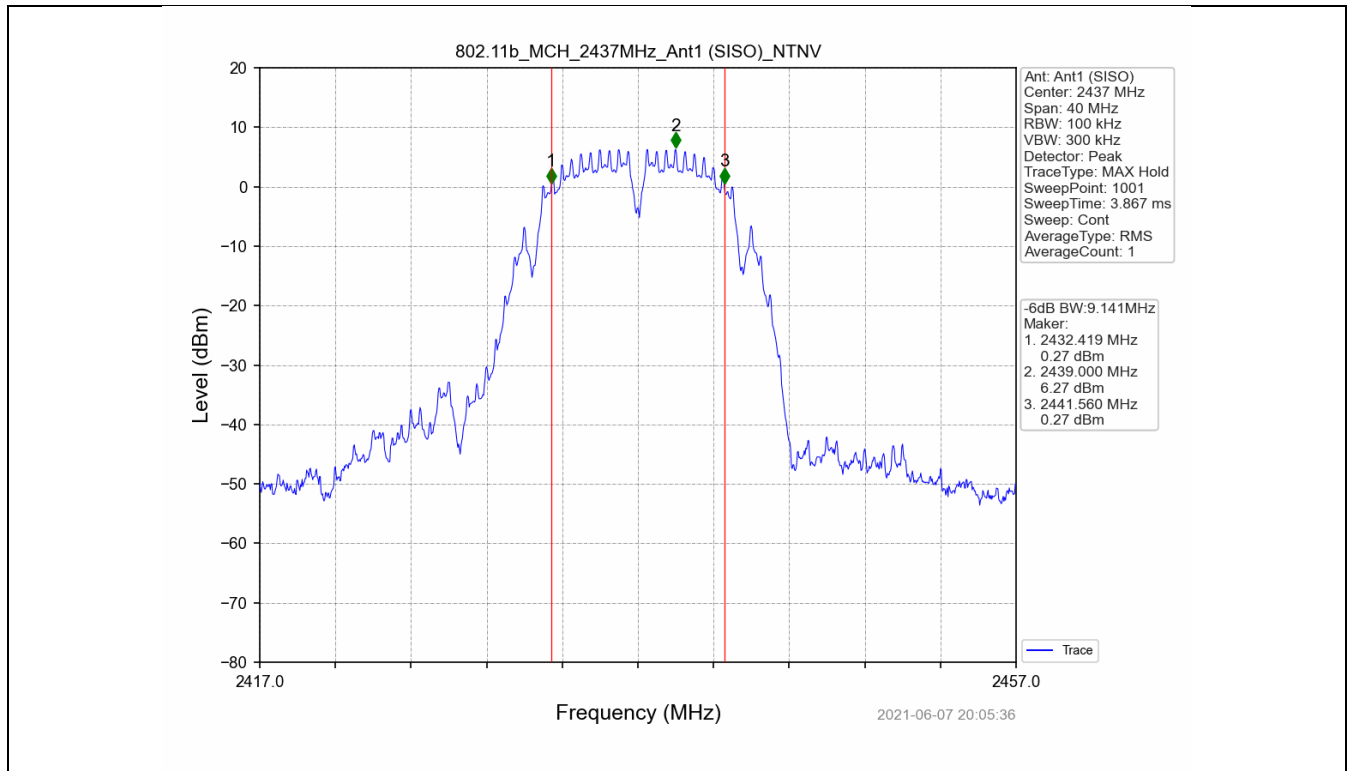
2.2 XDB

2.2.1 Test Result

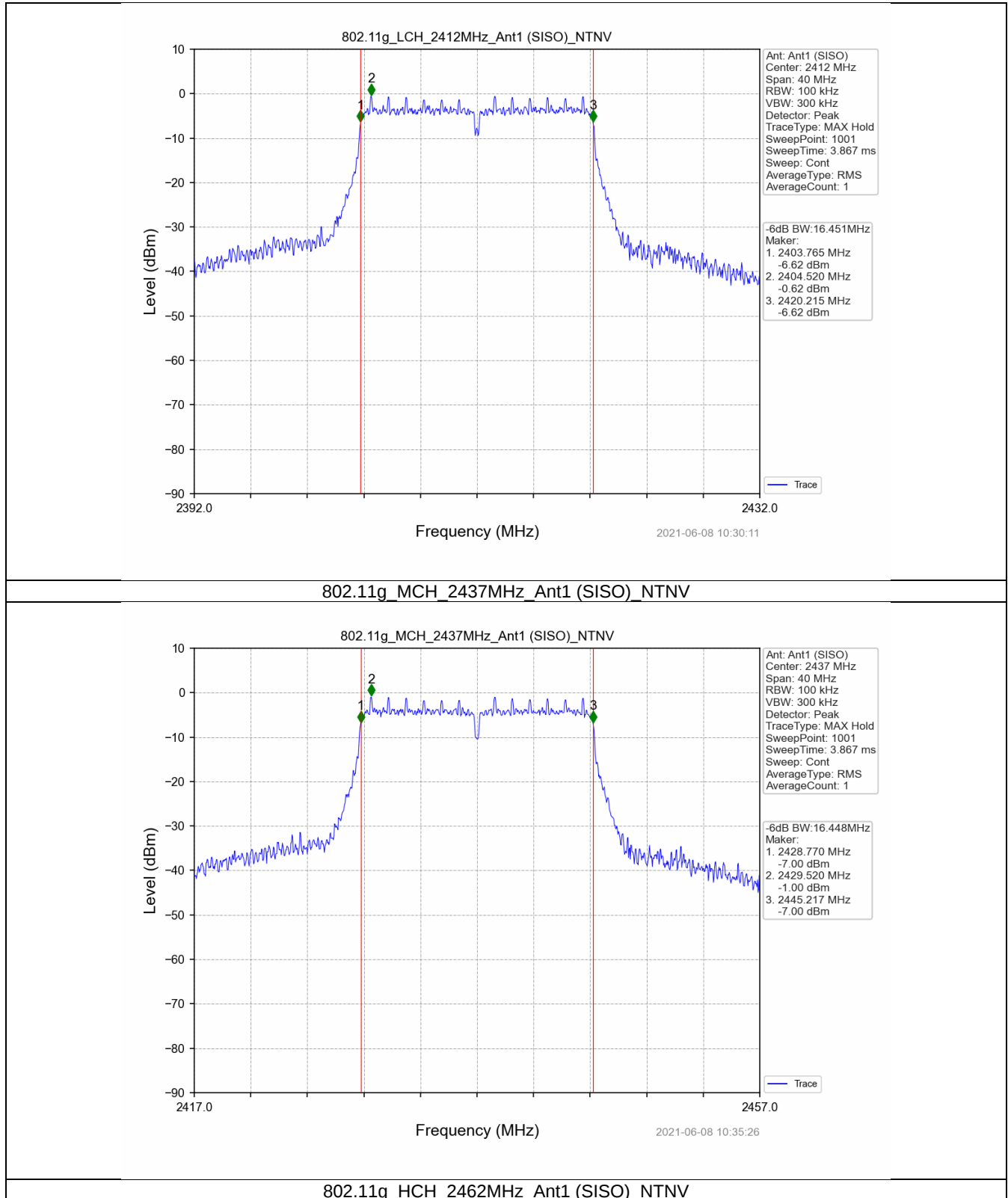
Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	9.145	≥ 0.5	Pass
		2437	/	/	9.141	≥ 0.5	Pass
		2462	/	/	9.145	≥ 0.5	Pass
802.11g	SISO	2412	/	/	16.451	≥ 0.5	Pass
		2437	/	/	16.448	≥ 0.5	Pass
		2462	/	/	16.451	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	17.652	≥ 0.5	Pass
		2437	/	/	17.652	≥ 0.5	Pass
		2462	/	/	17.649	≥ 0.5	Pass

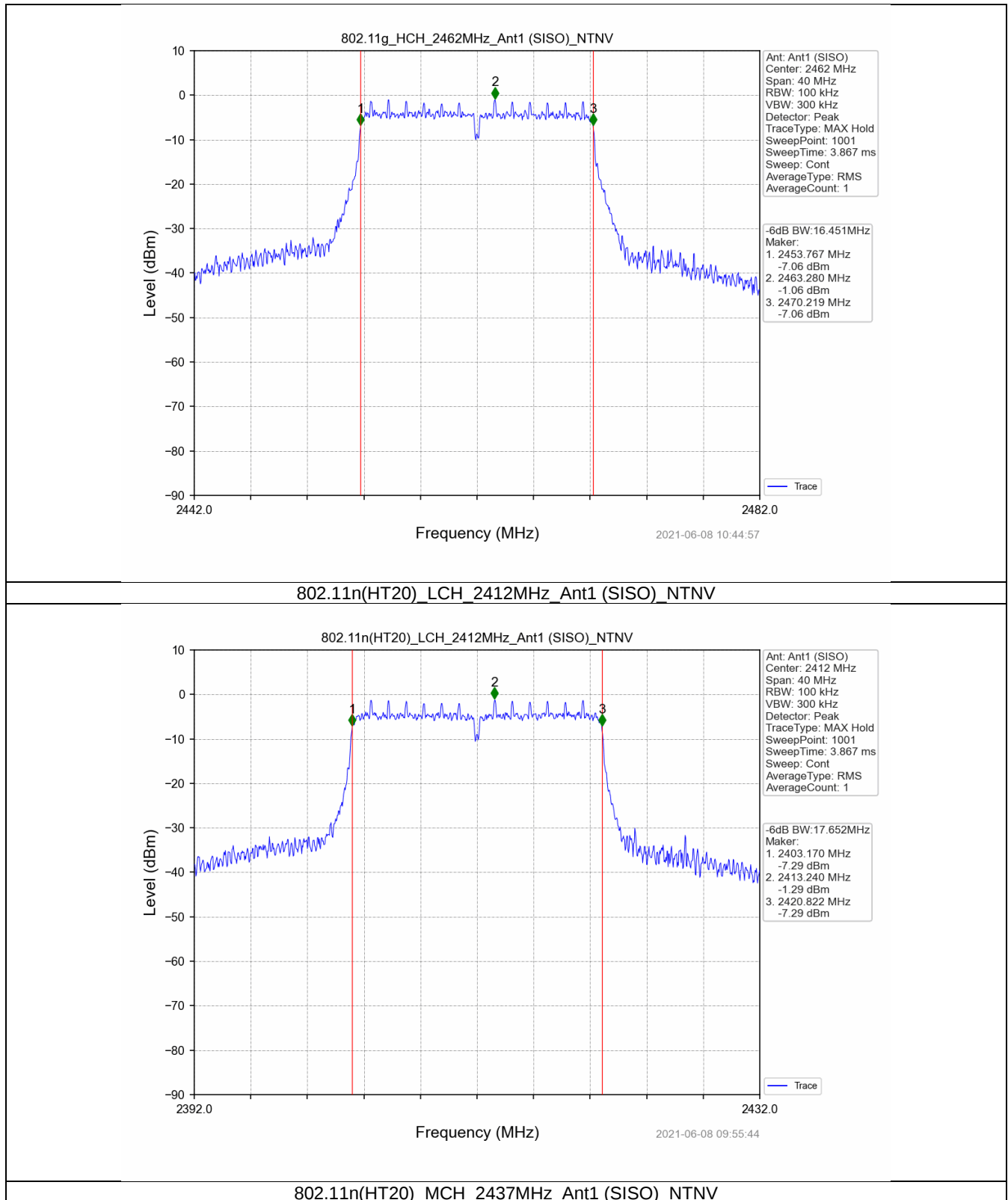
2.2.2 Test Graph

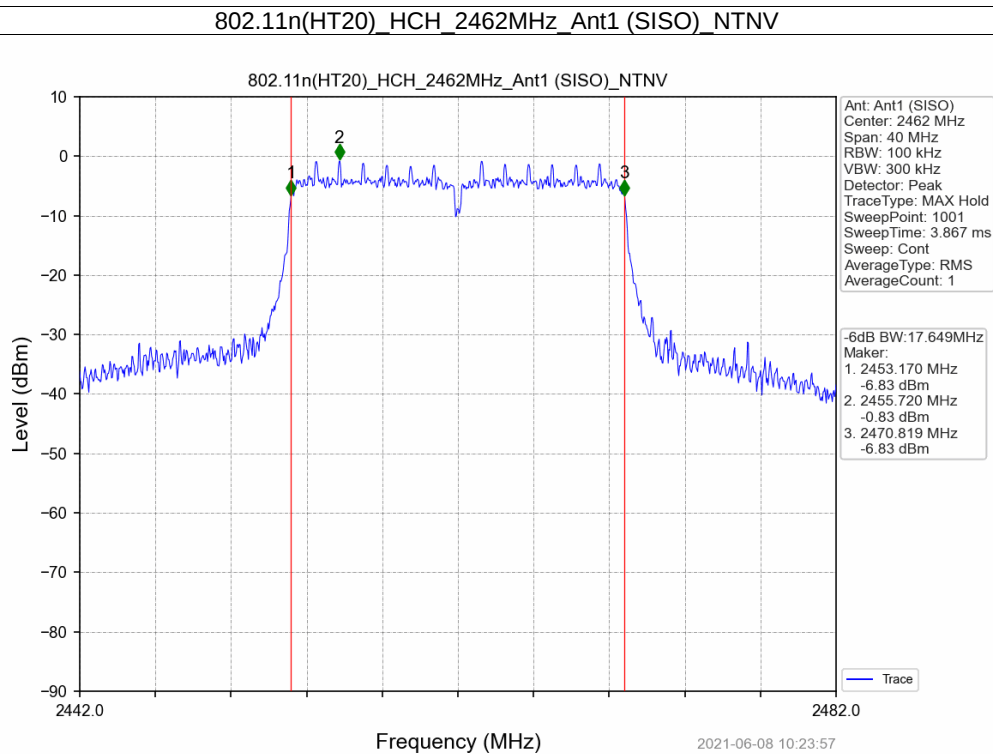
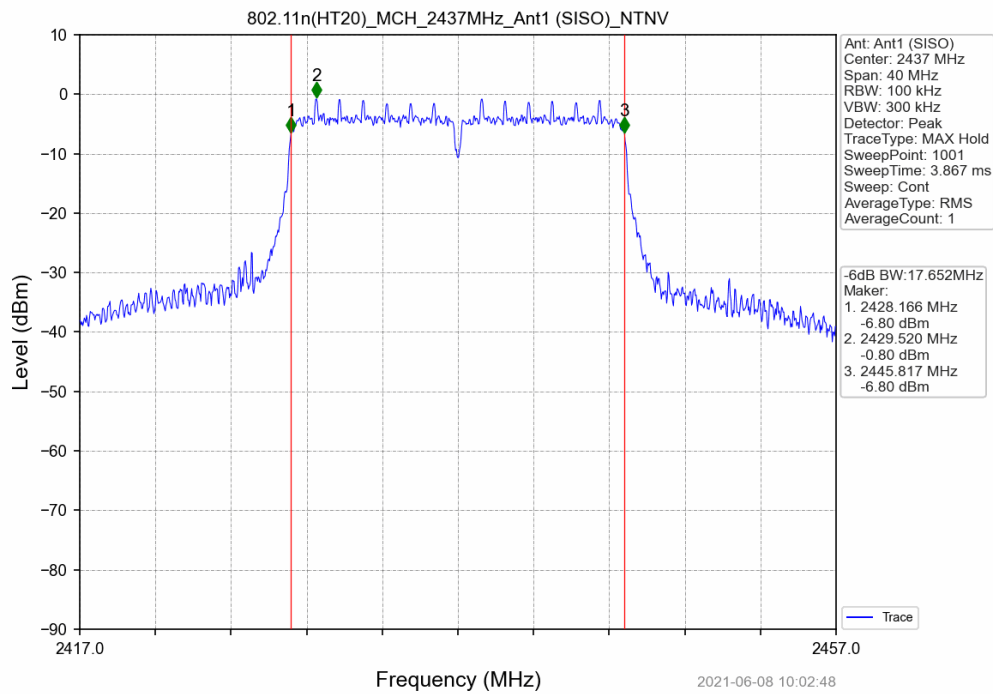




802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV







3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Measured Peak Output Power (dBm)	Limit (dBm)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	17.31	<=30	Pass
		2437	/	/	17.96	<=30	Pass
		2462	/	/	17.37	<=30	Pass
802.11g	SISO	2412	/	/	18.69	<=30	Pass
		2437	/	/	18.27	<=30	Pass
		2462	/	/	18.18	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	18.05	<=30	Pass
		2437	/	/	18.56	<=30	Pass
		2462	/	/	18.43	<=30	Pass

Note1: Antenna Gain: 1:2dBi;

4. Maximum Power Spectral Density

4.1 PSD

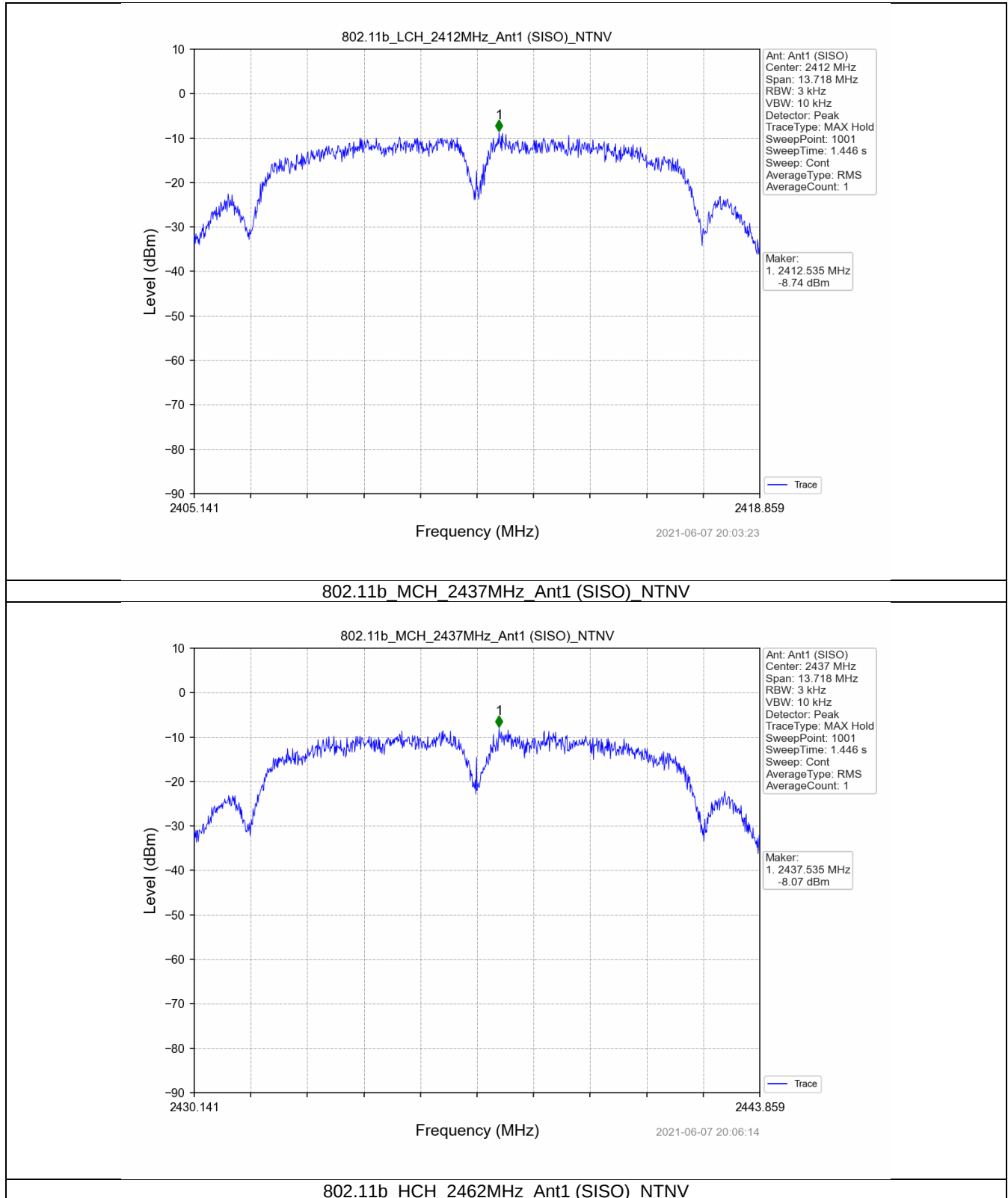
4.1.1 Test Result

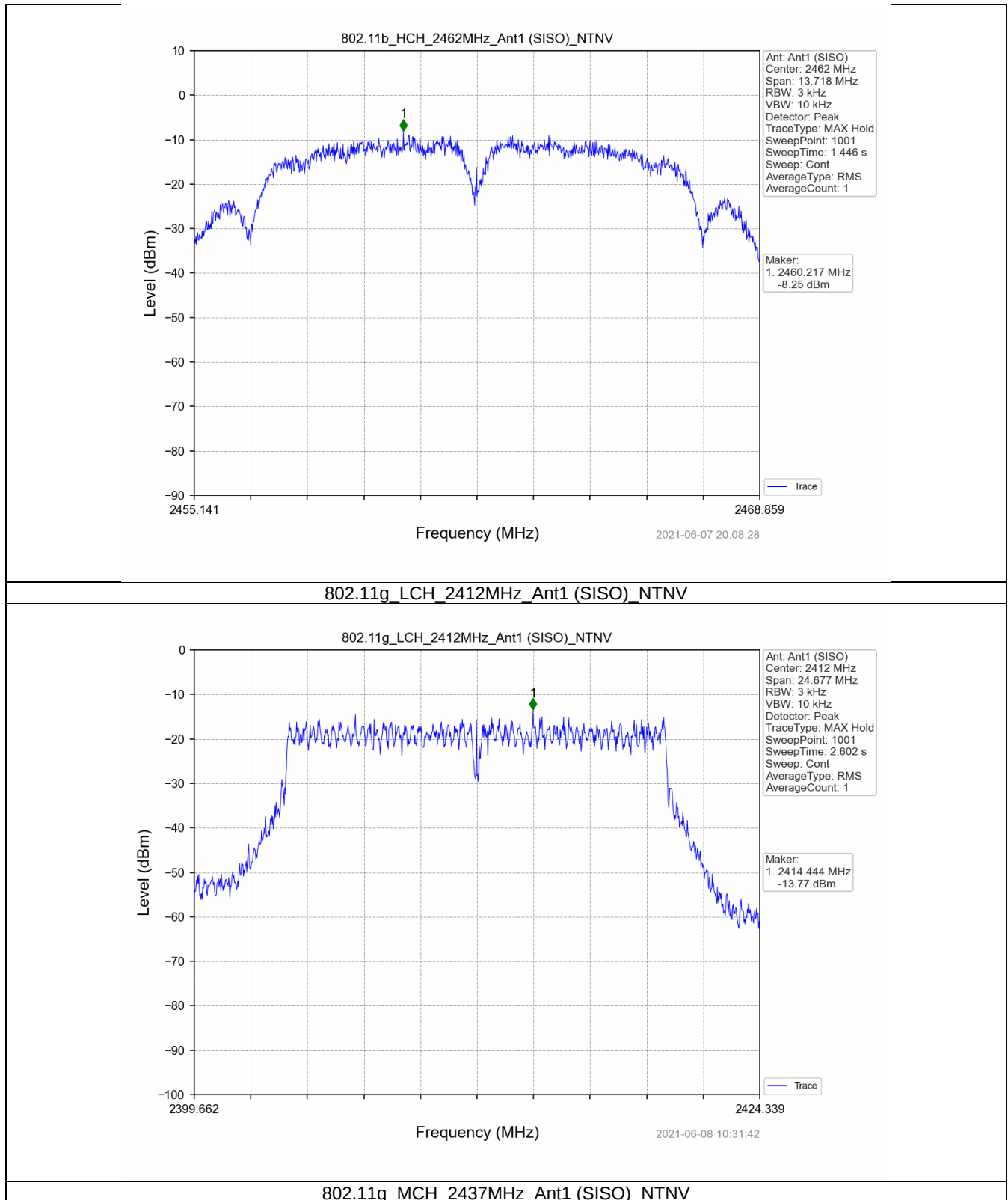
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	-8.74	<=8	Pass
		2437	/	/	-8.07	<=8	Pass
		2462	/	/	-8.25	<=8	Pass
802.11g	SISO	2412	/	/	-13.77	<=8	Pass
		2437	/	/	-15.25	<=8	Pass
		2462	/	/	-15.72	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-14.76	<=8	Pass
		2437	/	/	-14.57	<=8	Pass
		2462	/	/	-13.29	<=8	Pass

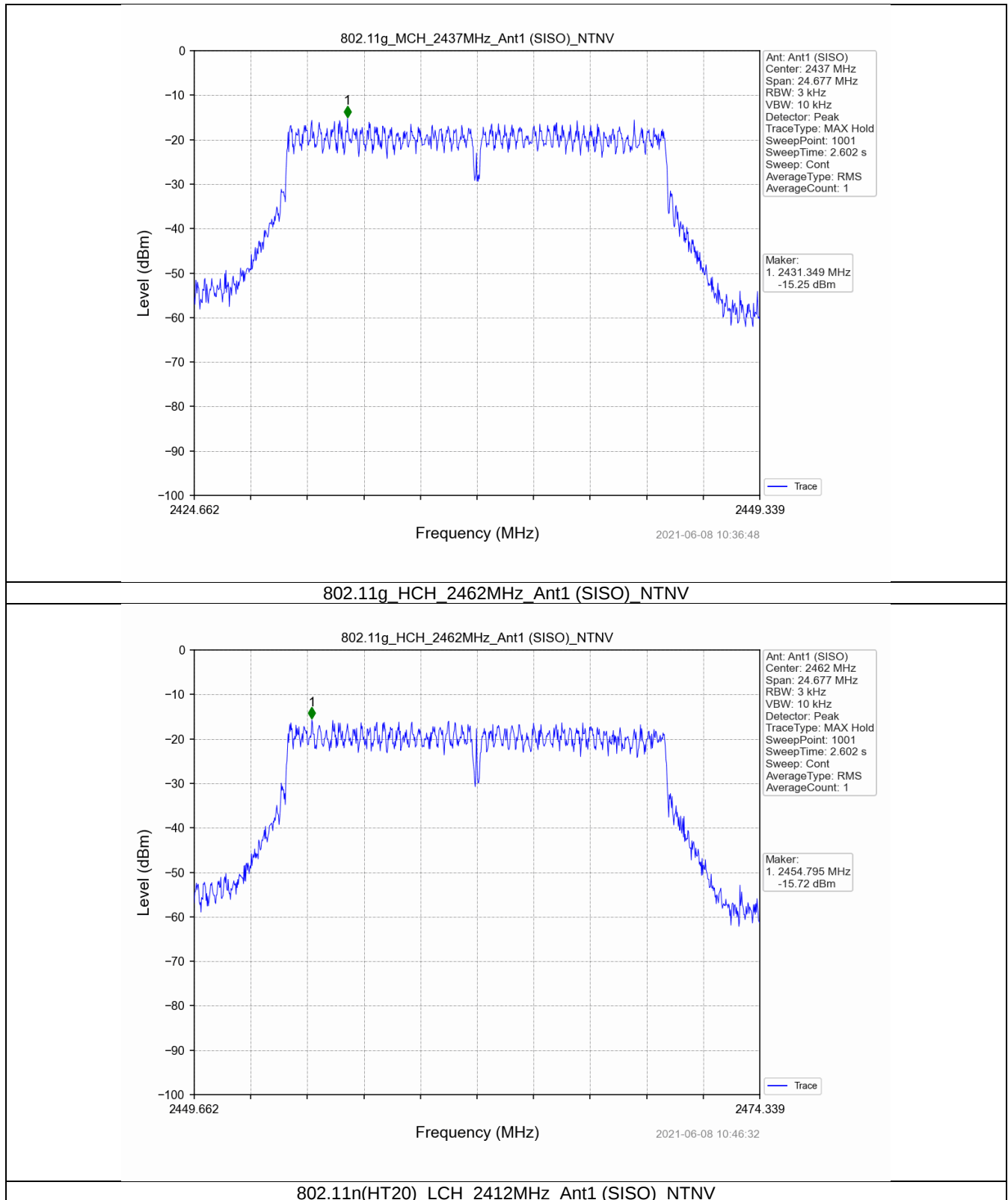
Note1: Antenna Gain: 1:2dBi;

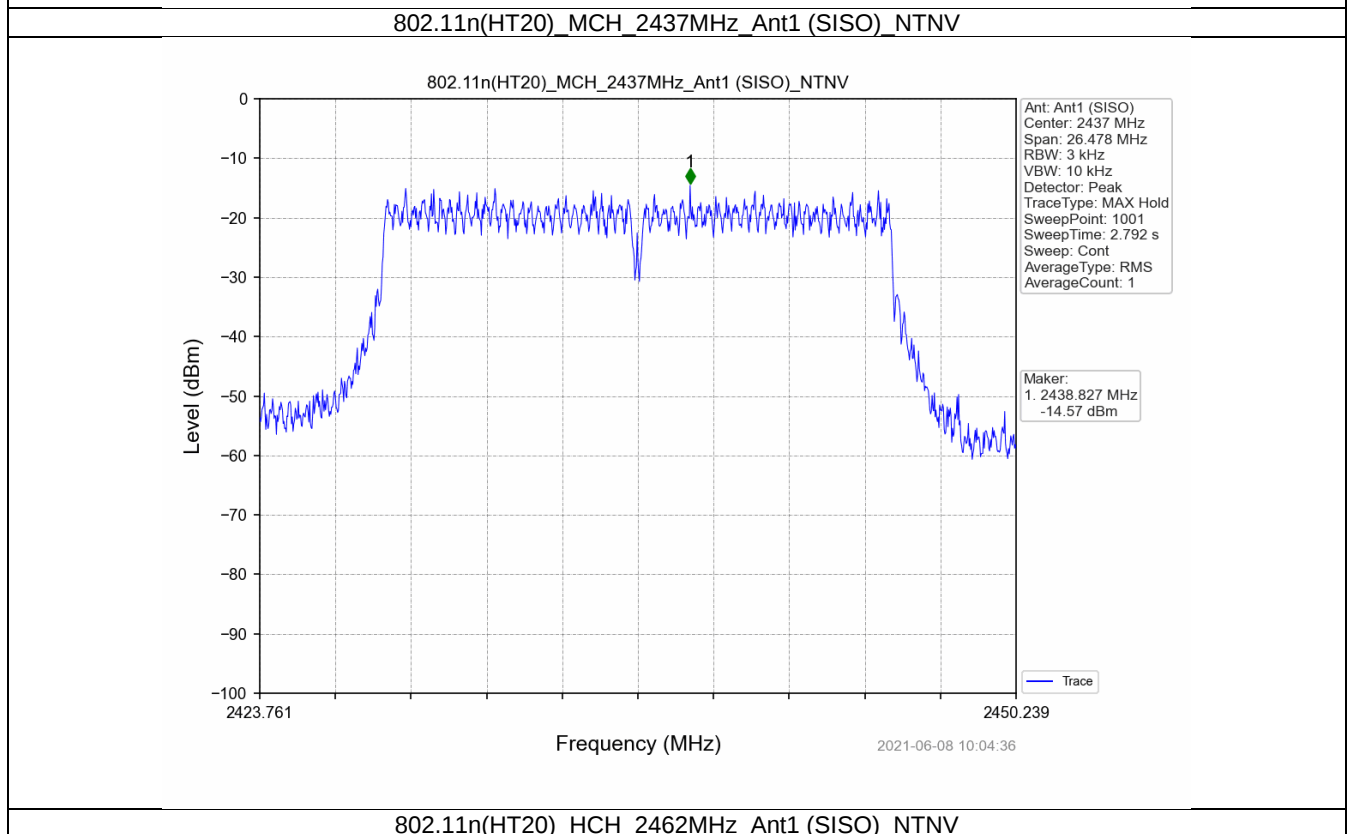
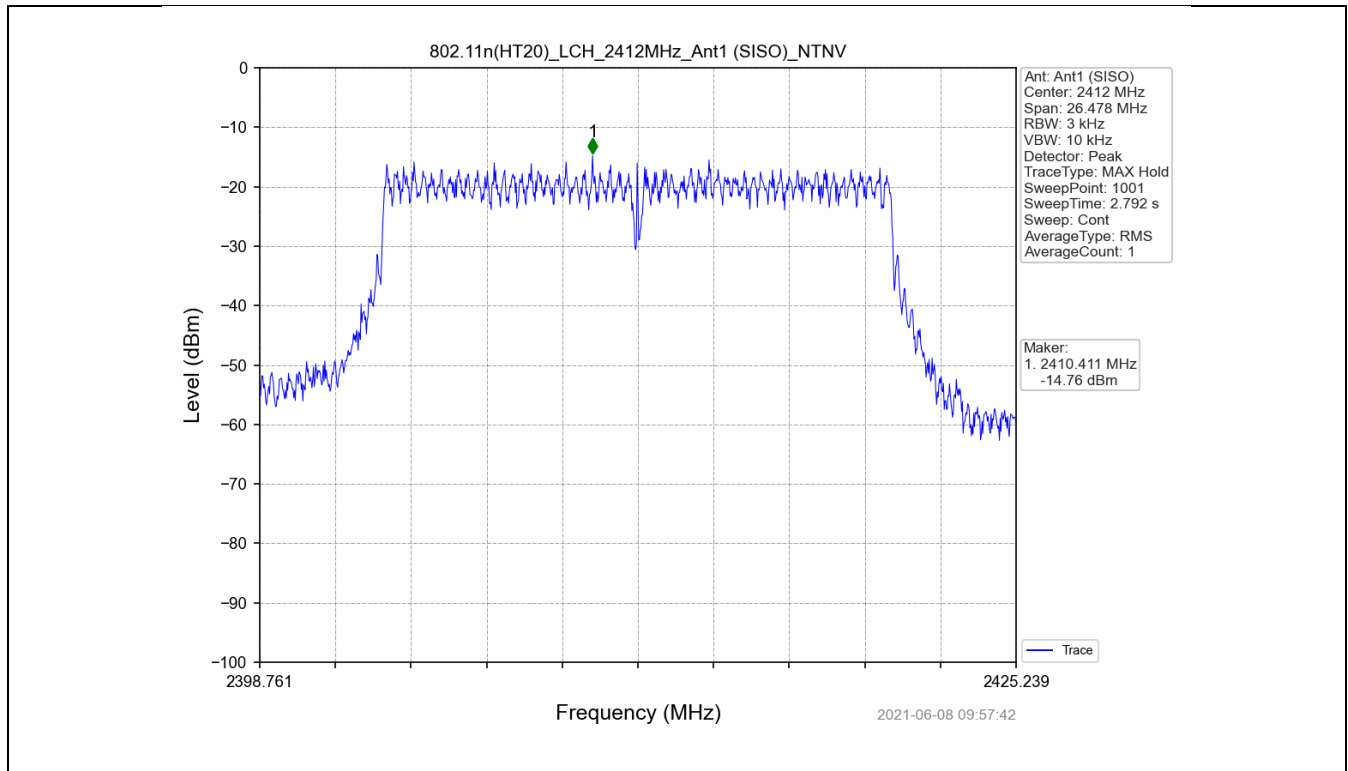
4.1.2 Test Graph

802.11b LCH 2412MHz Ant1 (SISO) NTNv

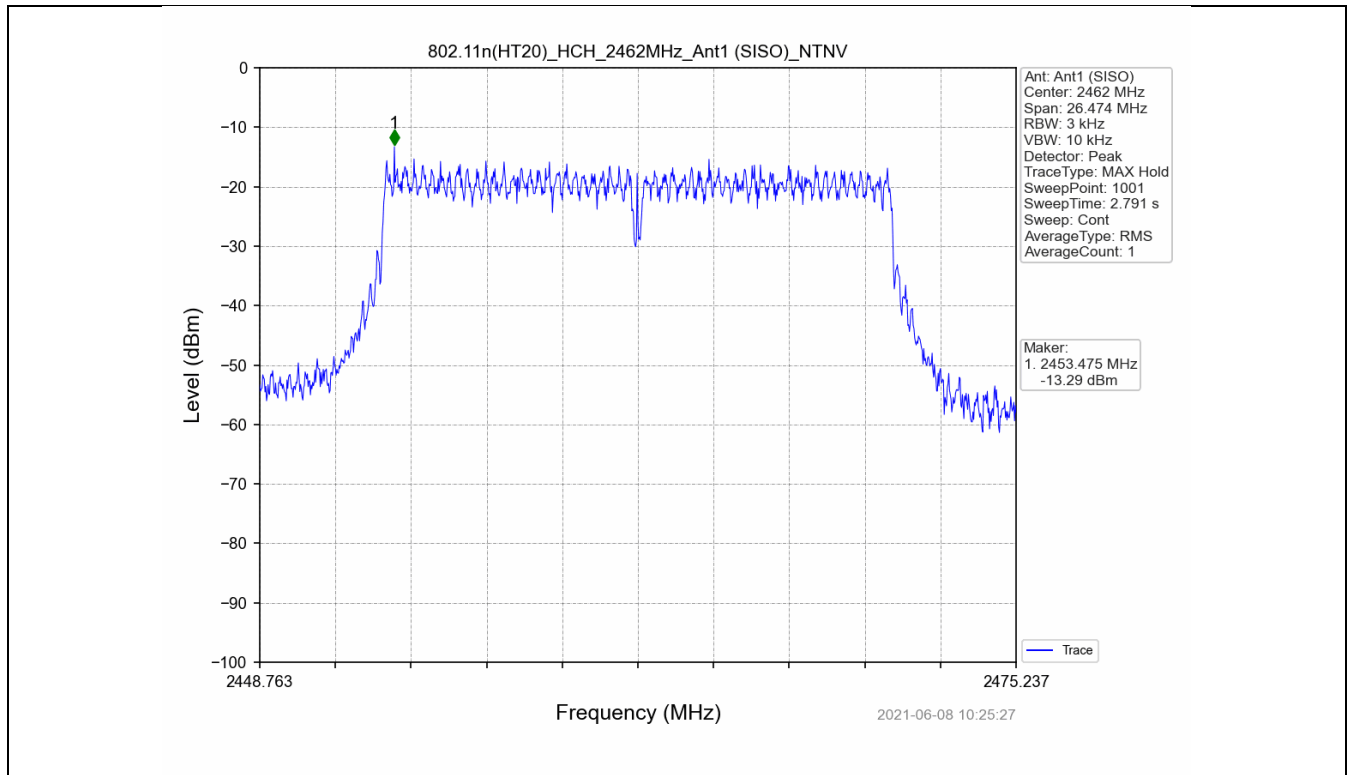








802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

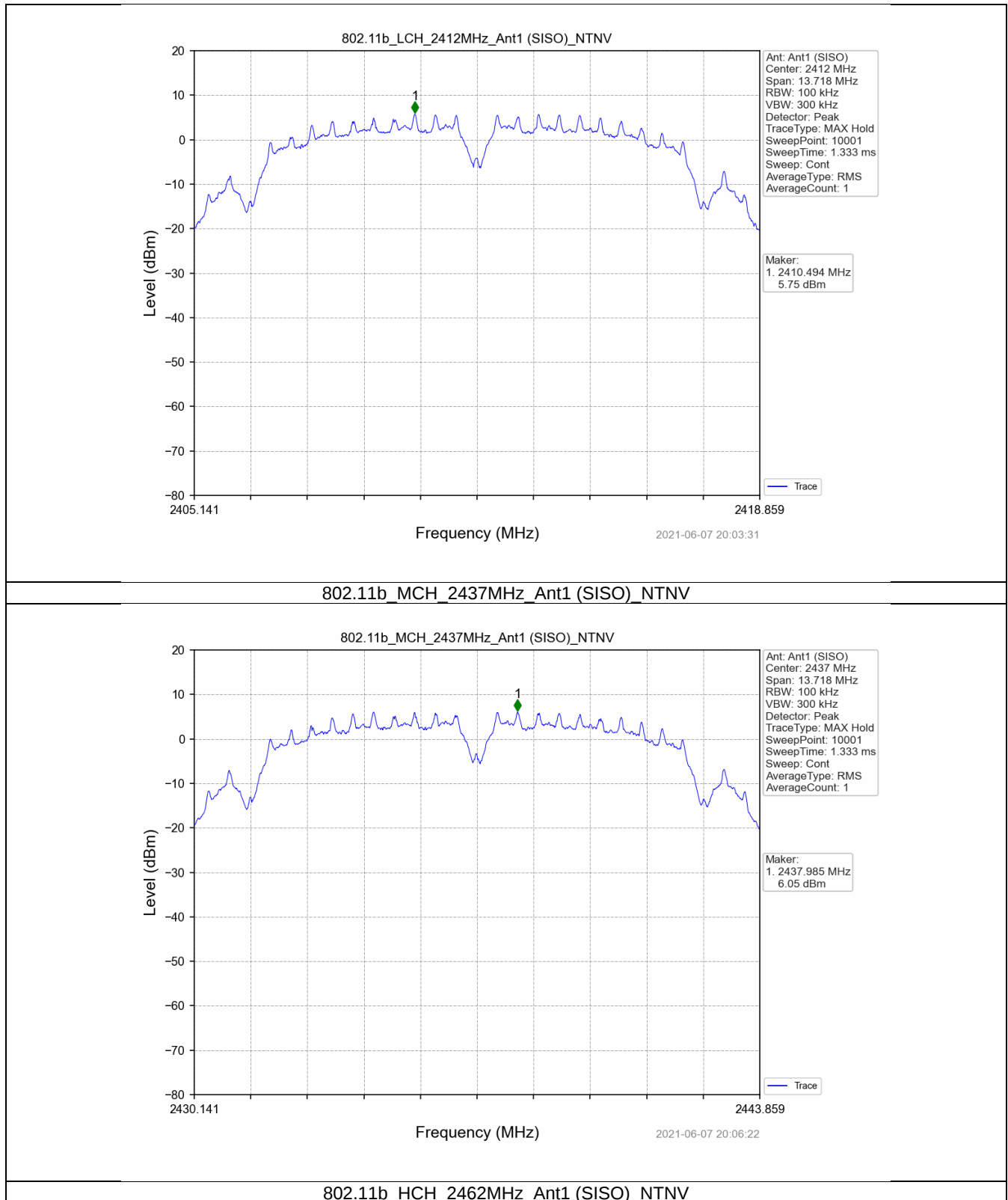
5.1.1 Test Result

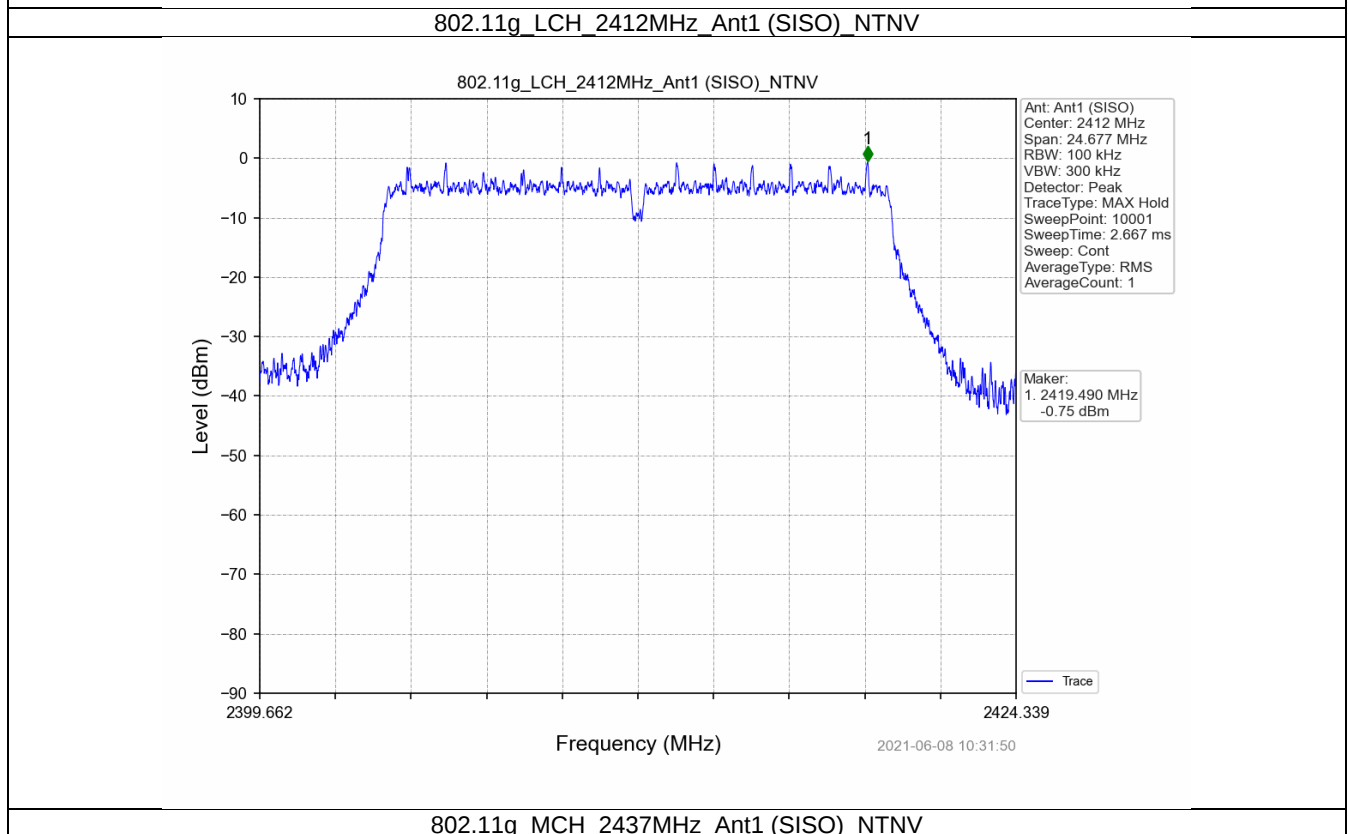
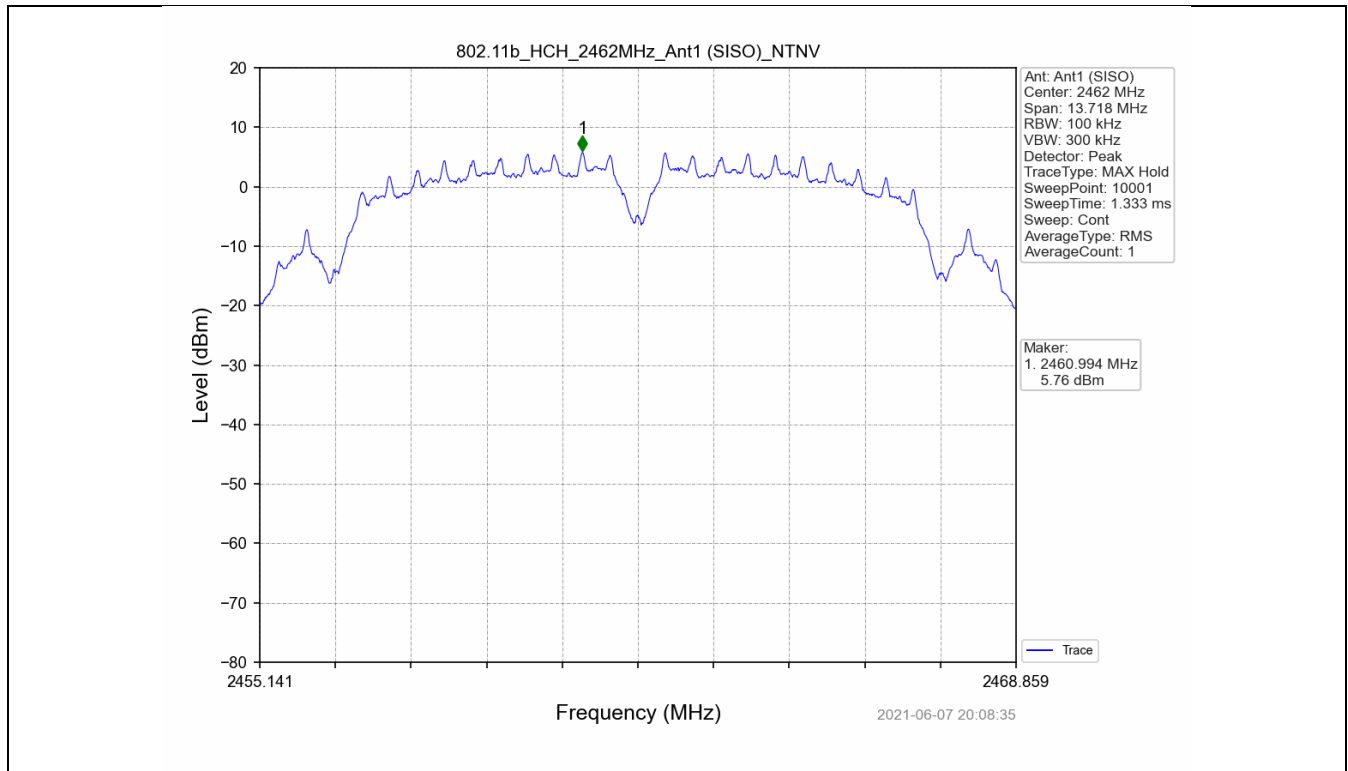
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	5.75	/	/
		2437	/	/	1	6.05	/	/
		2462	/	/	1	5.76	/	/
802.11g	SISO	2412	/	/	1	-0.75	/	/
		2437	/	/	1	-1.14	/	/
		2462	/	/	1	-1.16	/	/
802.11n (HT20)	SISO	2412	/	/	1	-1.38	/	/
		2437	/	/	1	-0.84	/	/
		2462	/	/	1	-0.96	/	/

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.

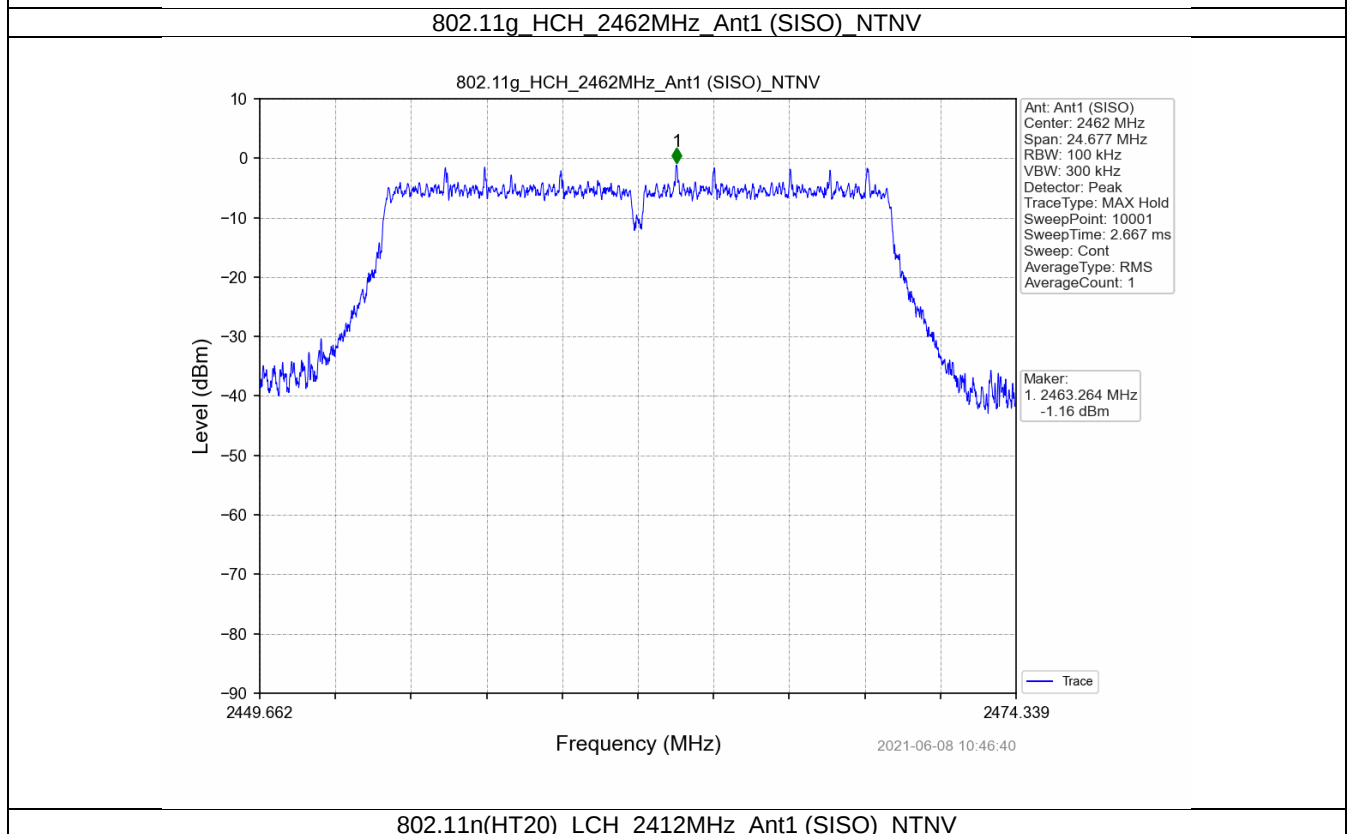
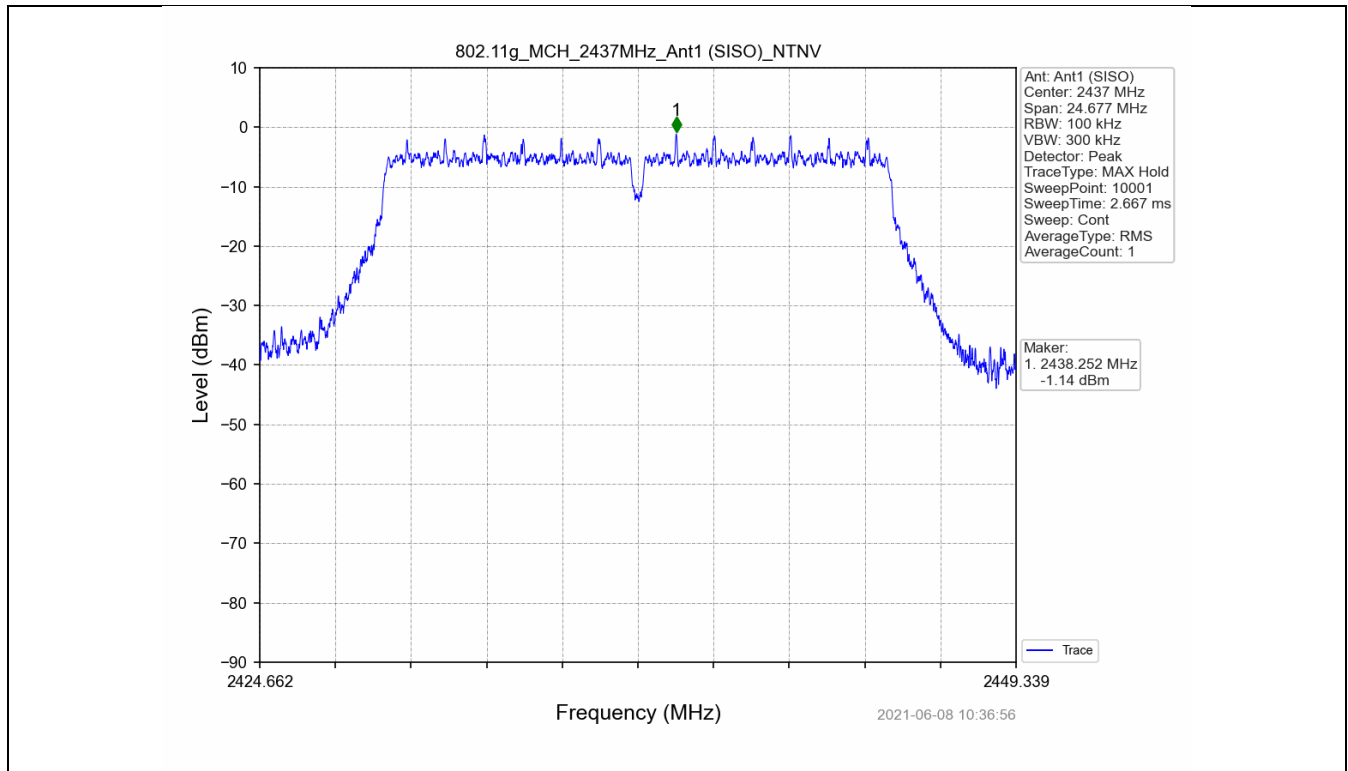
5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

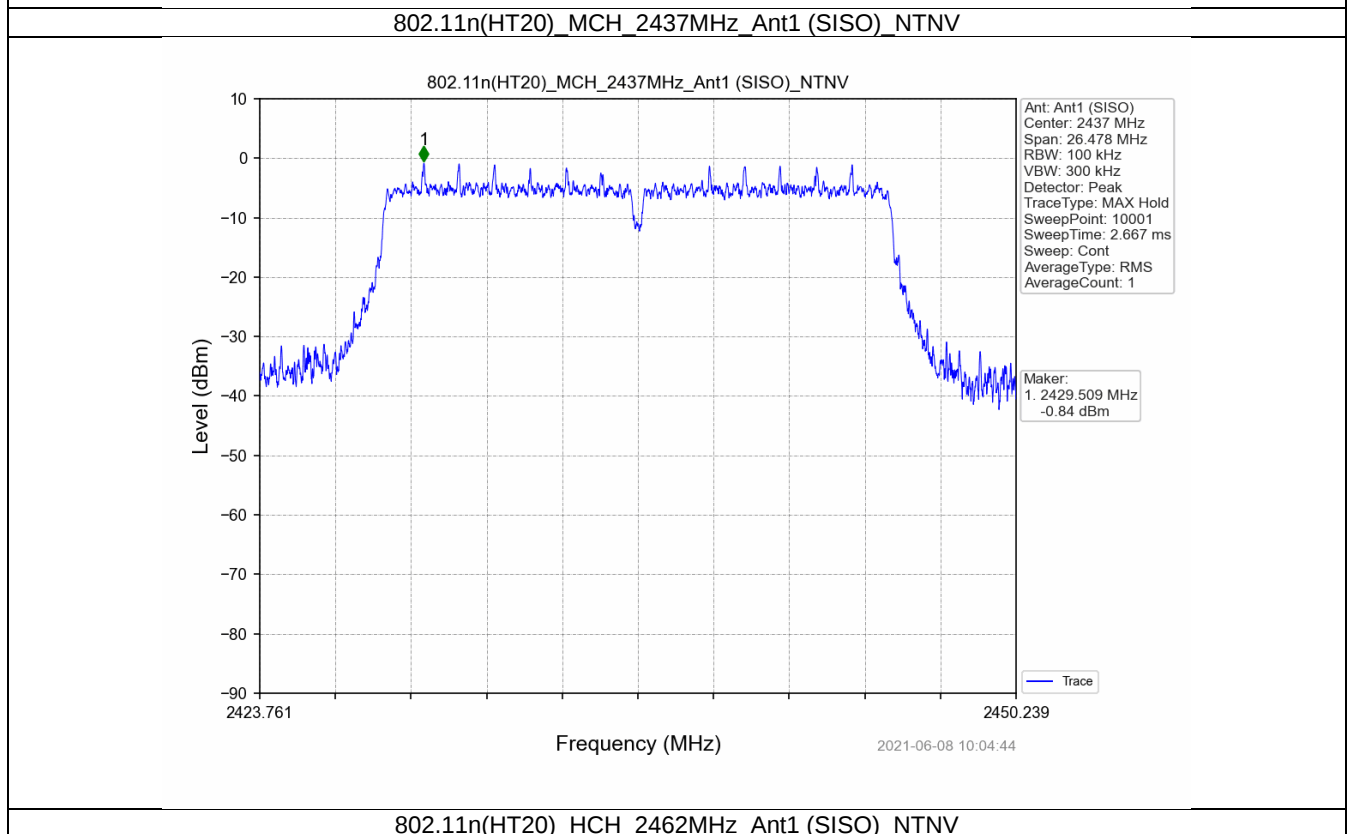
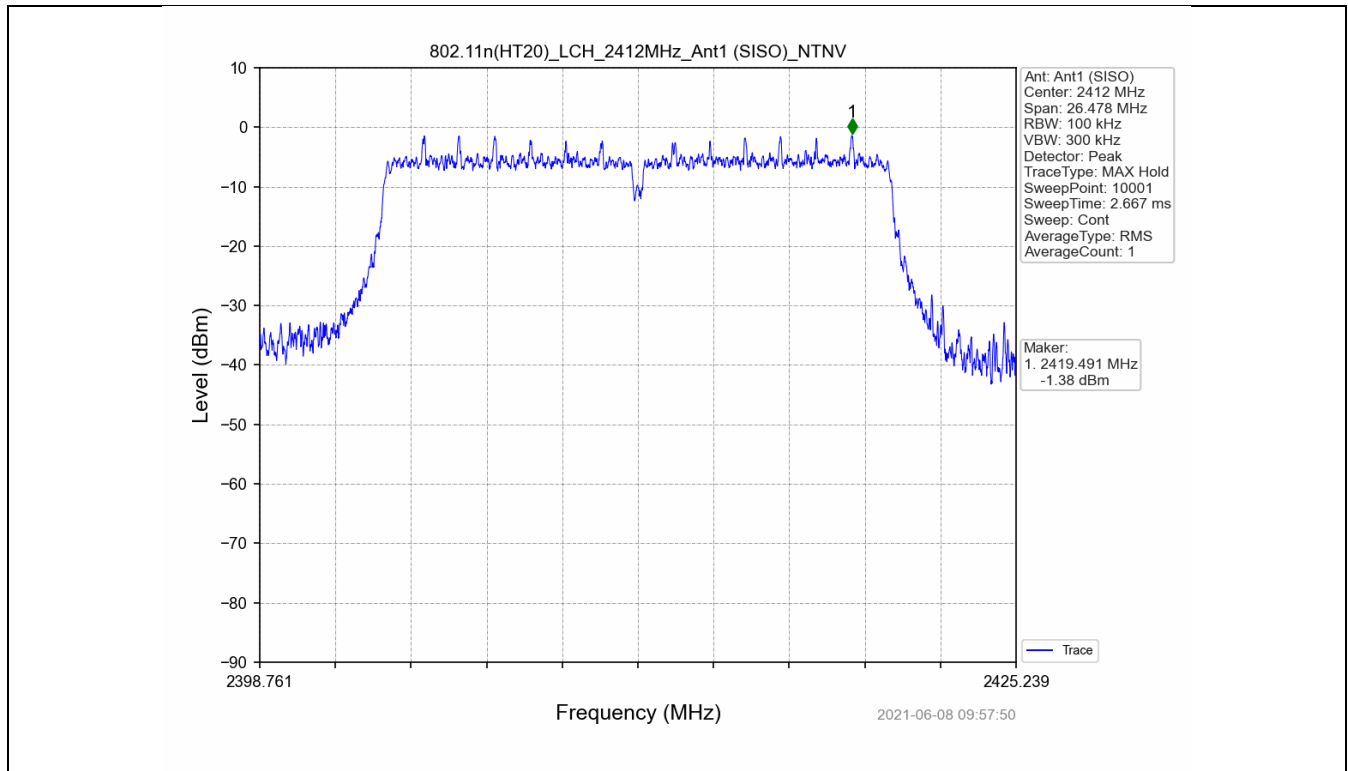




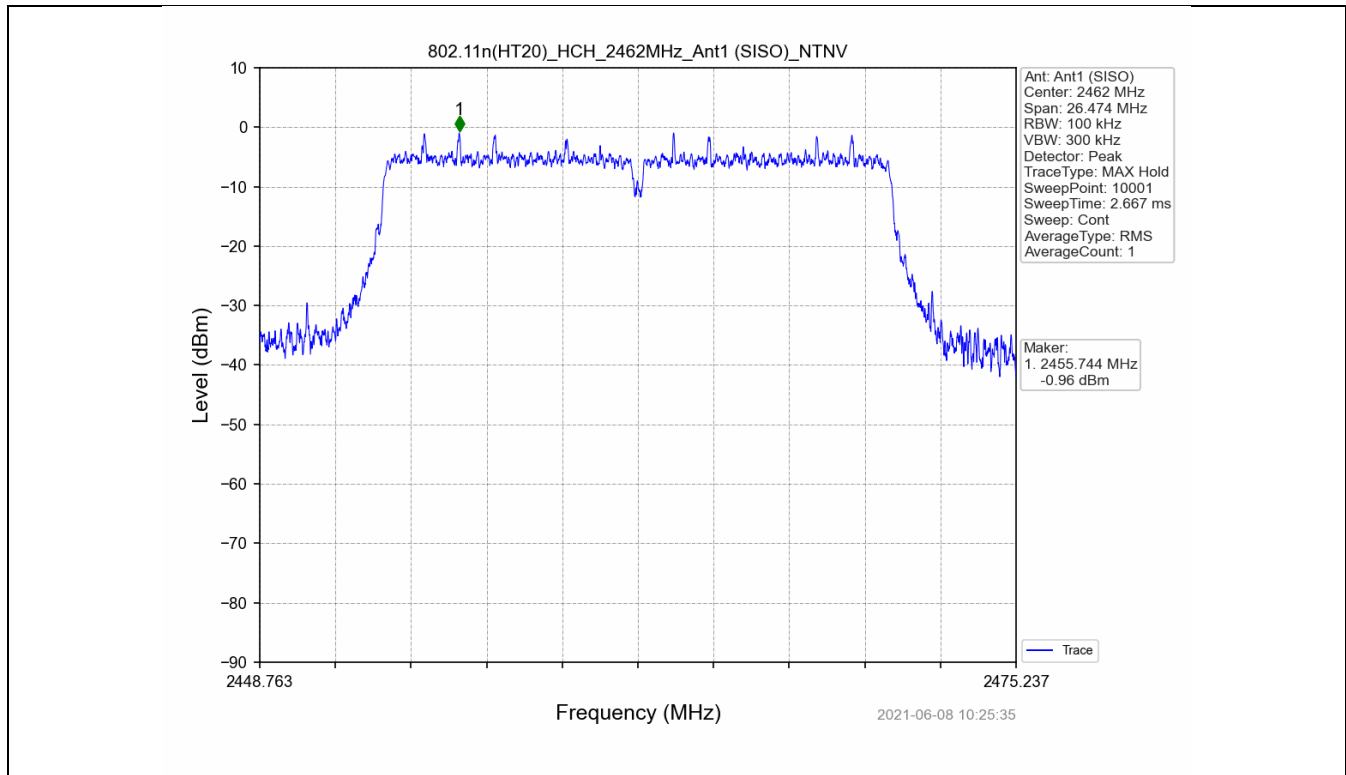
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	<=-13.95	Pass
		2437	/	/	1	Refer To Test Graph	<=-13.95	Pass
		2462	/	/	1	Refer To Test Graph	<=-13.95	Pass
802.11g	SISO	2412	/	/	1	Refer To Test Graph	<=-20.75	Pass
		2437	/	/	1	Refer To Test Graph	<=-20.75	Pass
		2462	/	/	1	Refer To Test Graph	<=-20.75	Pass
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	<=-20.84	Pass
		2437	/	/	1	Refer To Test Graph	<=-20.84	Pass
		2462	/	/	1	Refer To Test Graph	<=-20.84	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.

5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

