Appendix Test Data

Project No.:	18220WC10142501	Test Date:	2021.6.30
Test Engineer:	Tony.He	Auditor:	Edward.Pan
Temperature:	24.6℃	Relative Humidity:	56.3%
Pressure:	1012 hPa		

1. Duty Cycle

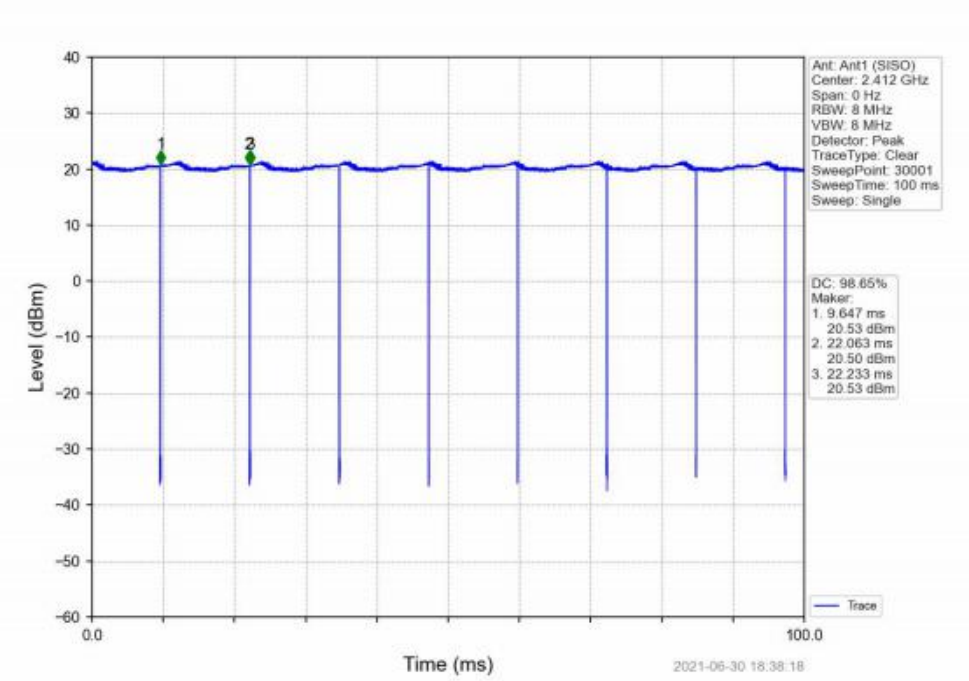
1.1 Ant1

1.1.1 Test Result

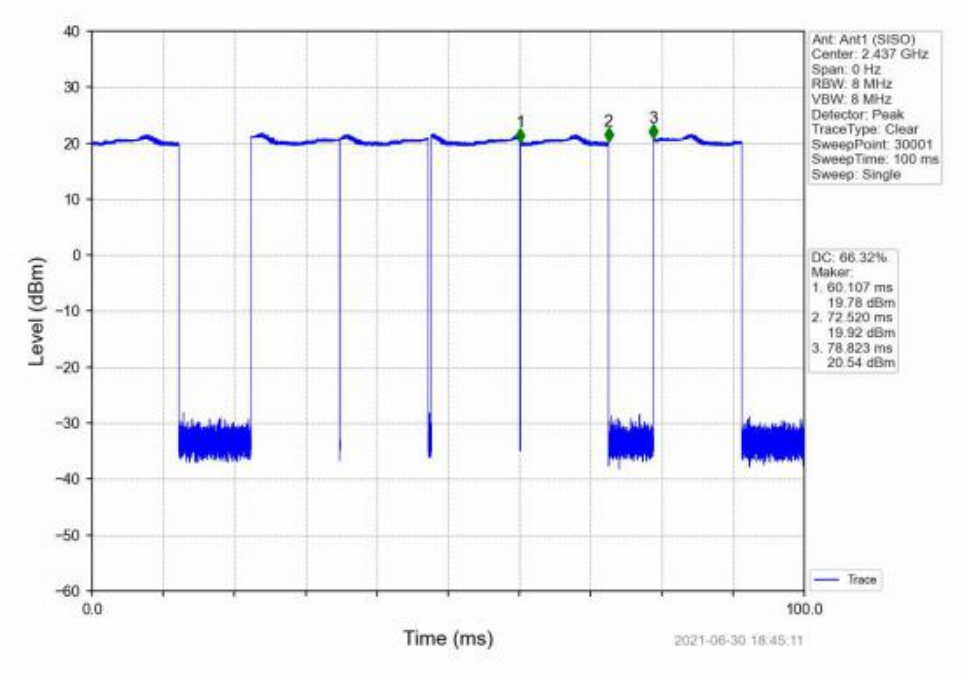
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	12.42	12.59	98.65	0.06	0.84
		2437	/	/	12.41	18.72	66.32	1.78	33.37
		2462	/	/	12.42	12.56	98.85	0.05	0.87
802.11g	SISO	2412	/	/	2.06	2.65	77.78	1.09	20.27
		2437	/	/	2.06	2.23	92.26	0.35	5.13
		2462	/	/	2.06	2.23	92.30	0.35	5.93
802.11n (HT20)	SISO	2412	/	/	1.92	2.28	84.11	0.75	10.75
		2437	/	/	1.92	2.09	91.73	0.38	6.38
		2462	/	/	1.92	2.09	91.77	0.37	6.33
Note1: Only for Report Use									

1.1.2 Test Graph

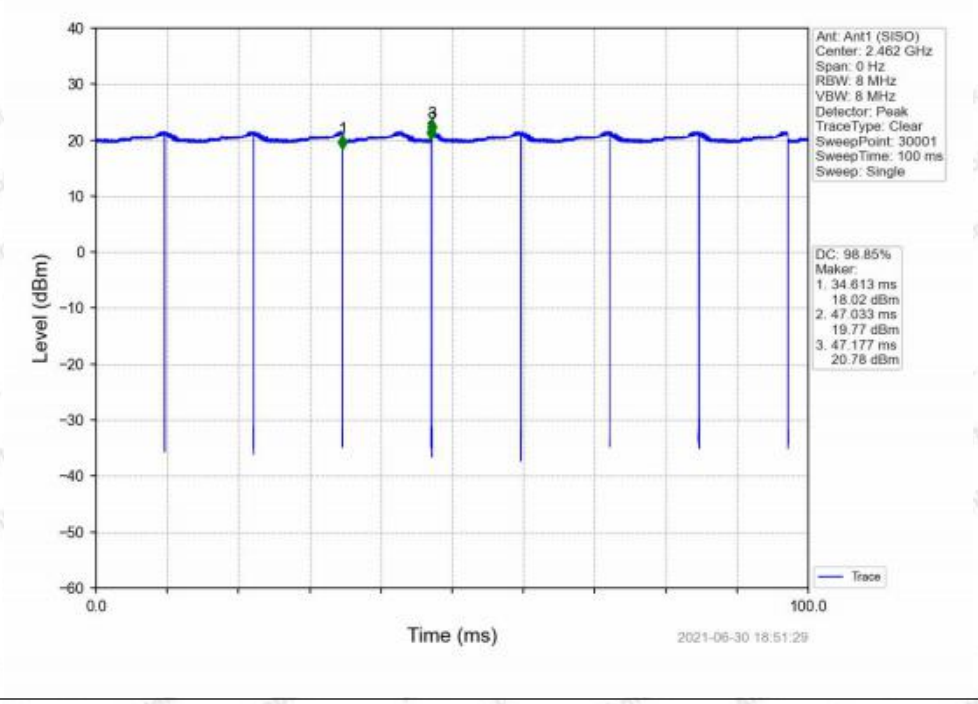
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



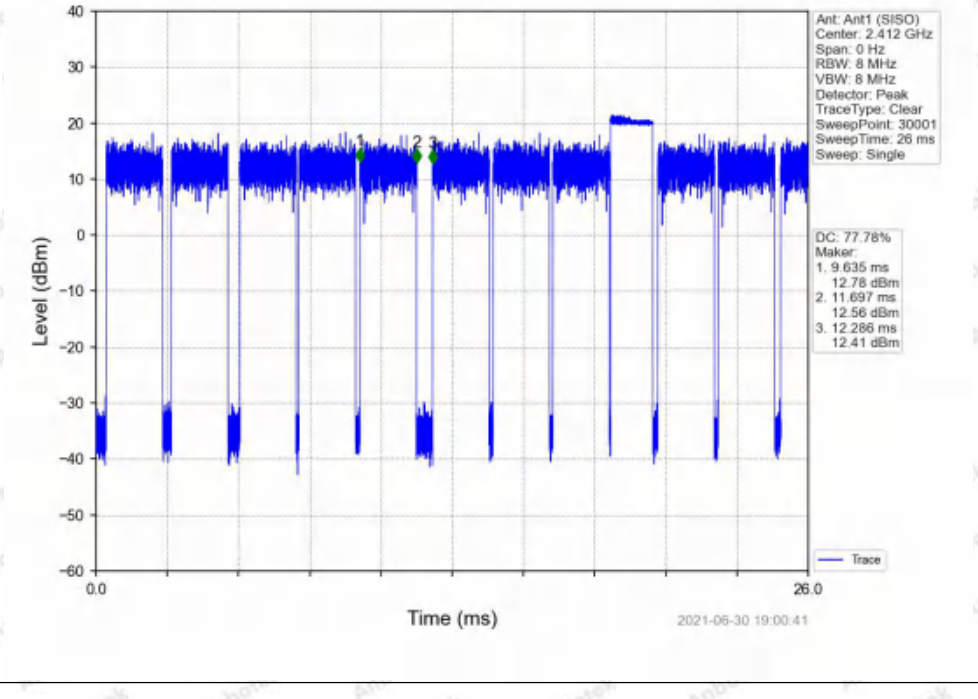
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



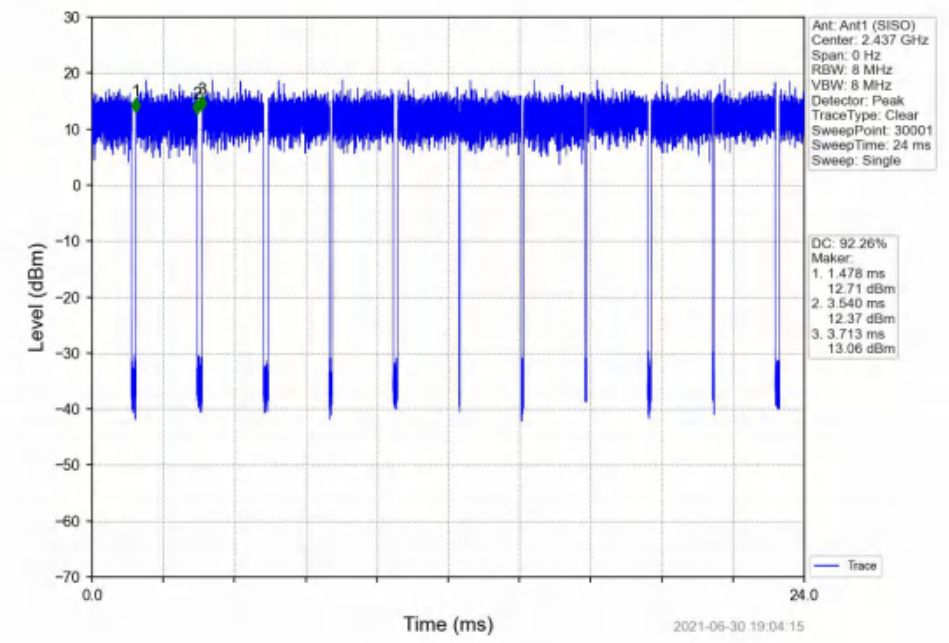
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



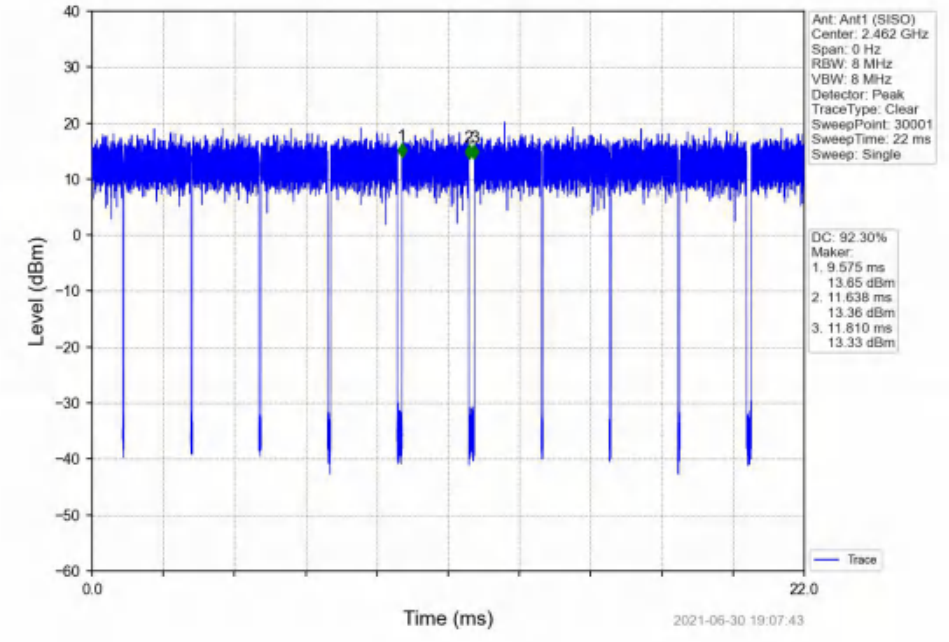
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



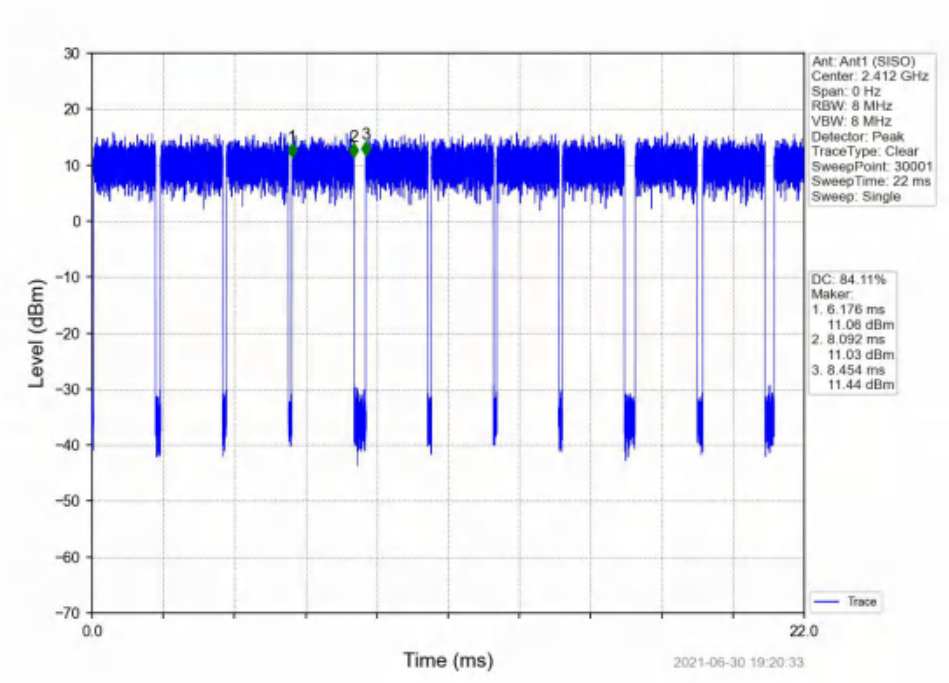
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



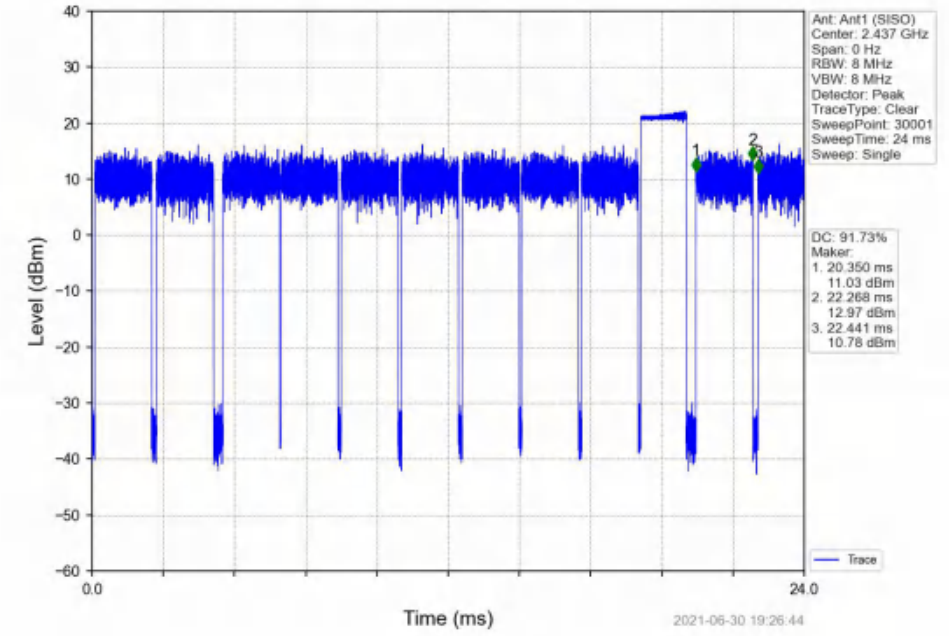
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



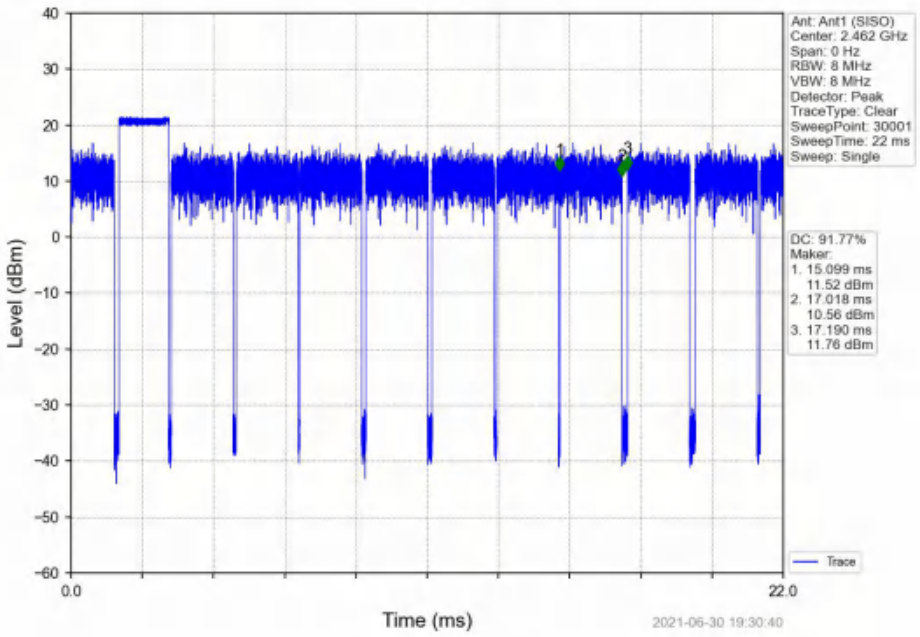
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



2. Bandwidth

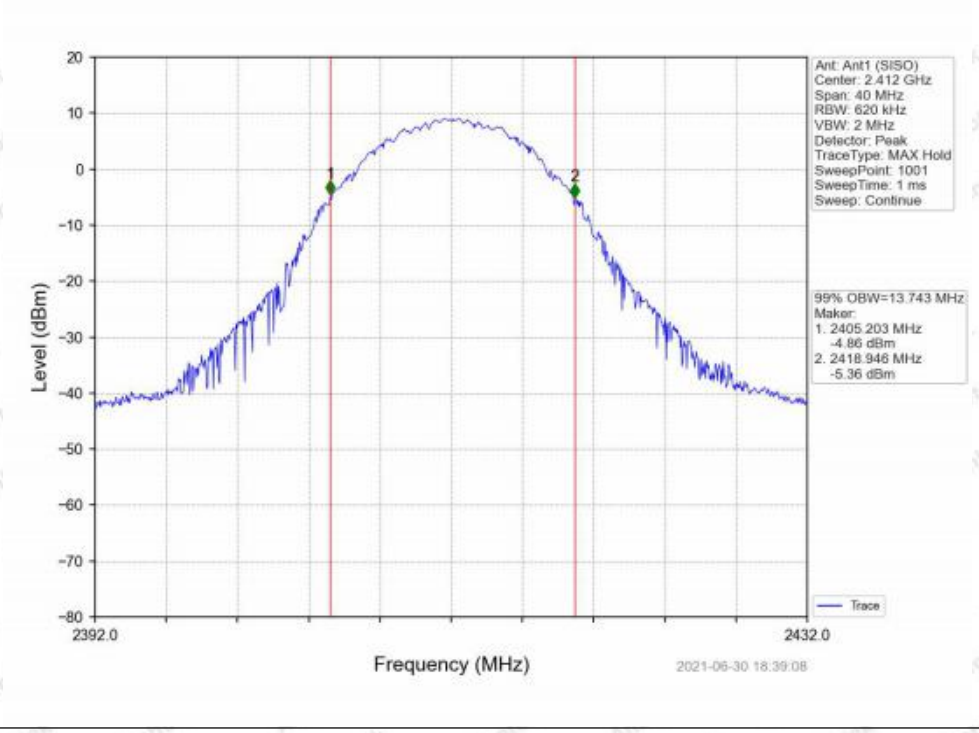
2.1 OBW

2.1.1 Test Result

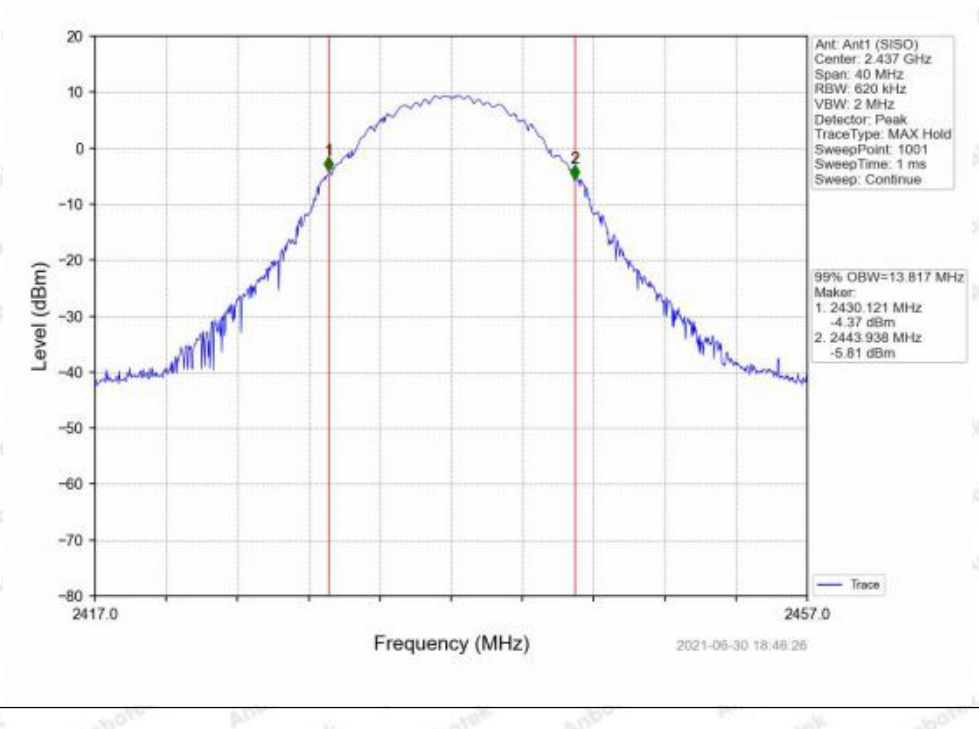
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	99% Occupied Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	1	13.74	/	Note1
		2437	/	/	1	13.82	/	Note1
		2462	/	/	1	13.81	/	Note1
802.11g	SISO	2412	/	/	1	17.36	/	Note1
		2437	/	/	1	17.24	/	Note1
		2462	/	/	1	17.25	/	Note1
802.11n (HT20)	SISO	2412	/	/	1	17.71	/	Note1
		2437	/	/	1	17.68	/	Note1
		2462	/	/	1	17.80	/	Note1
Note1: Only for Report Use								

2.1.2 Test Graph

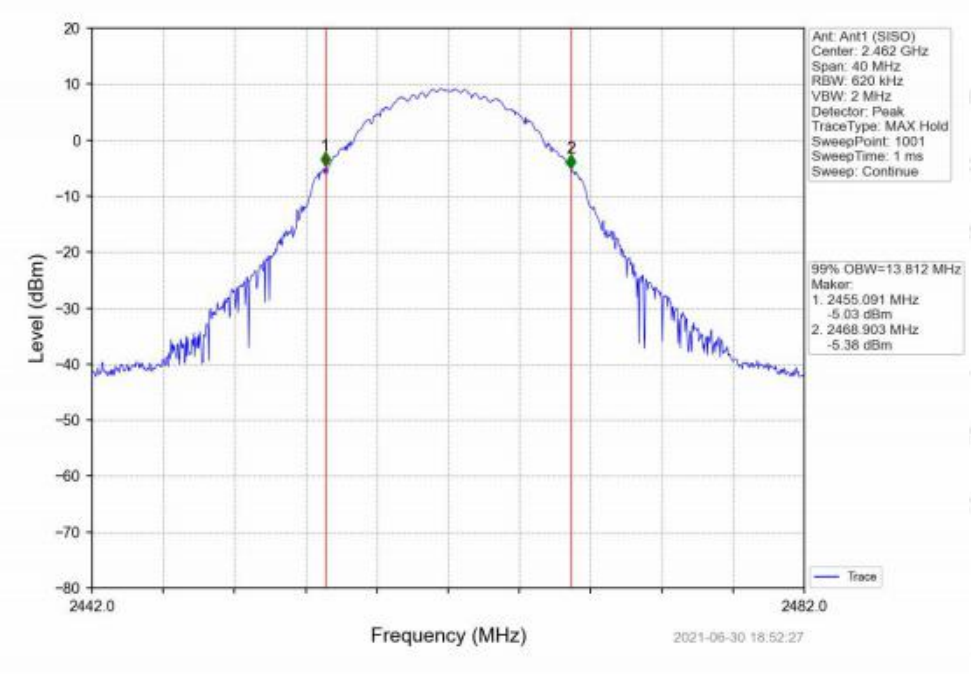
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



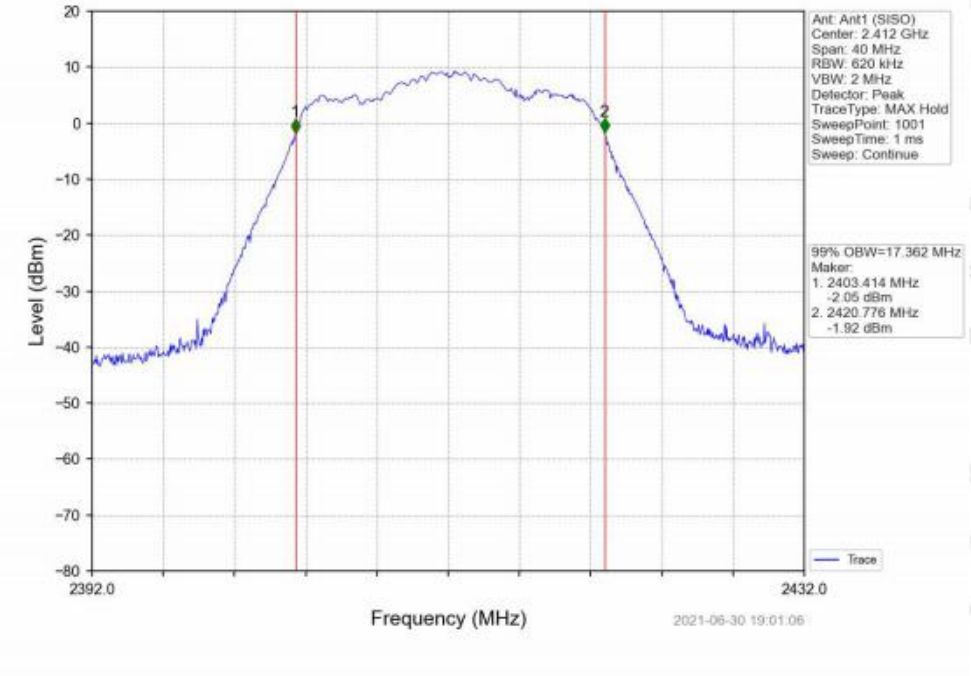
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



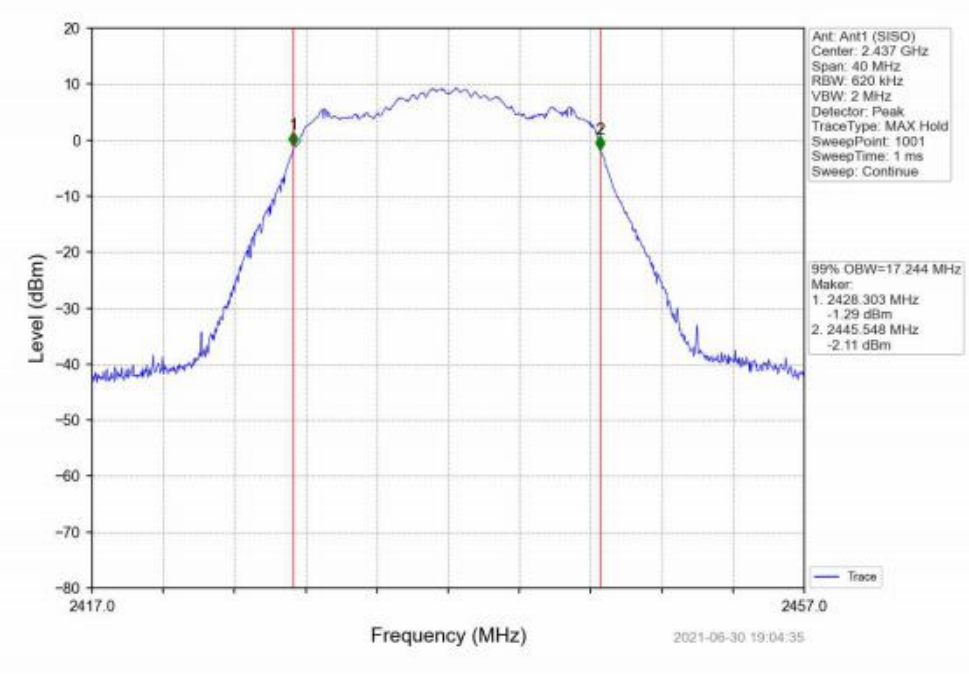
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



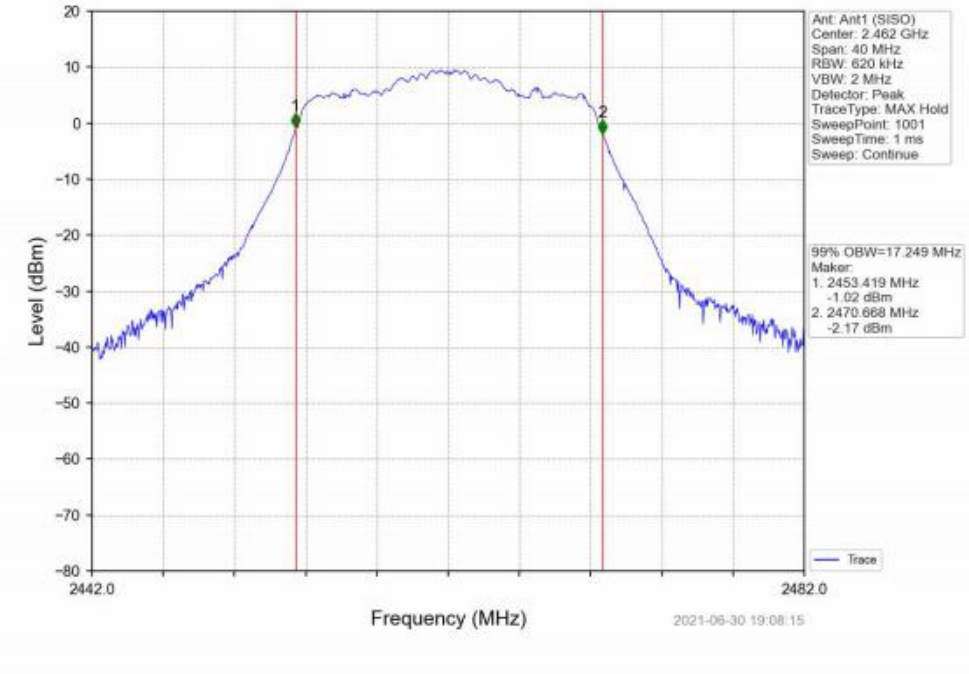
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



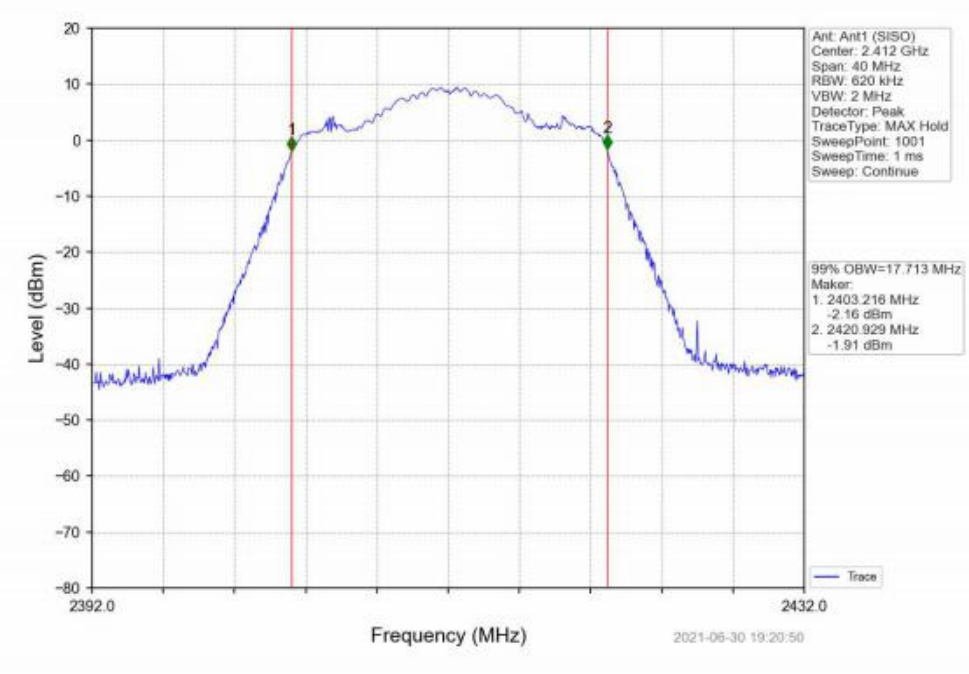
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



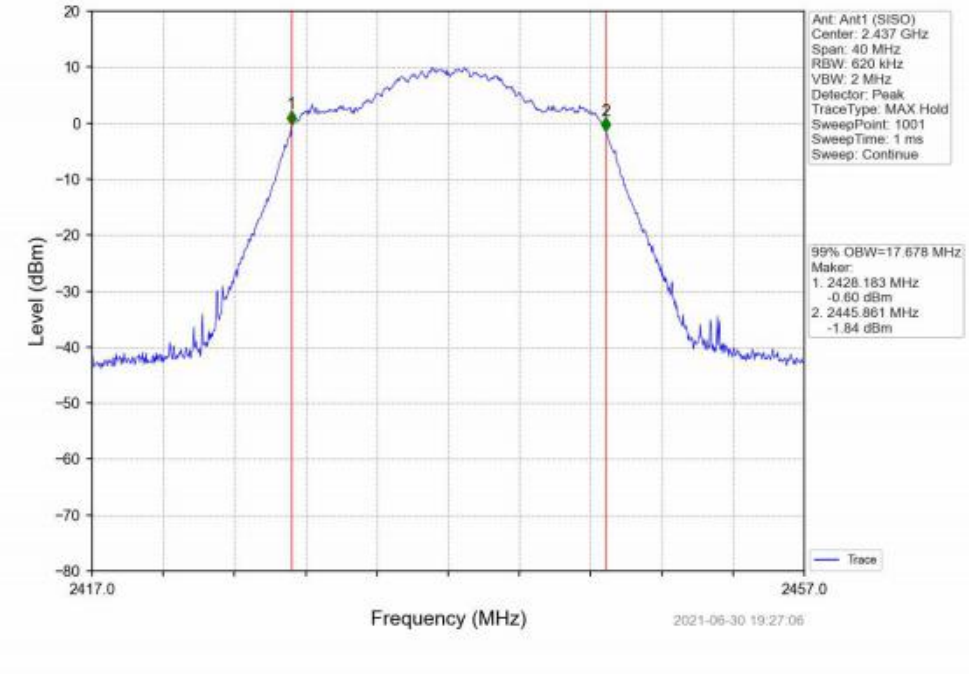
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



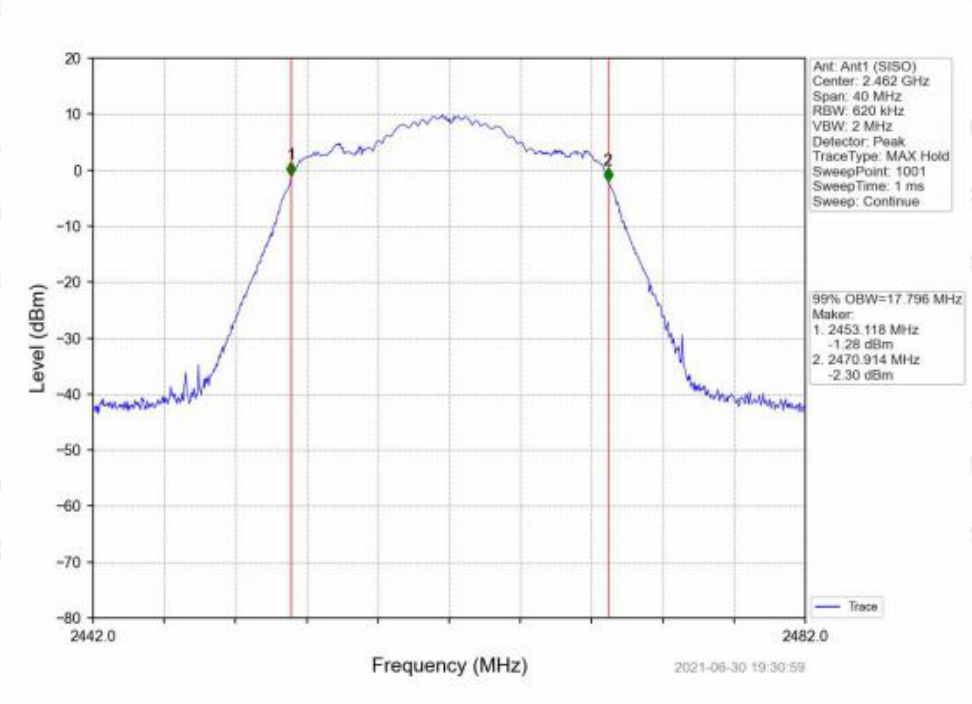
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



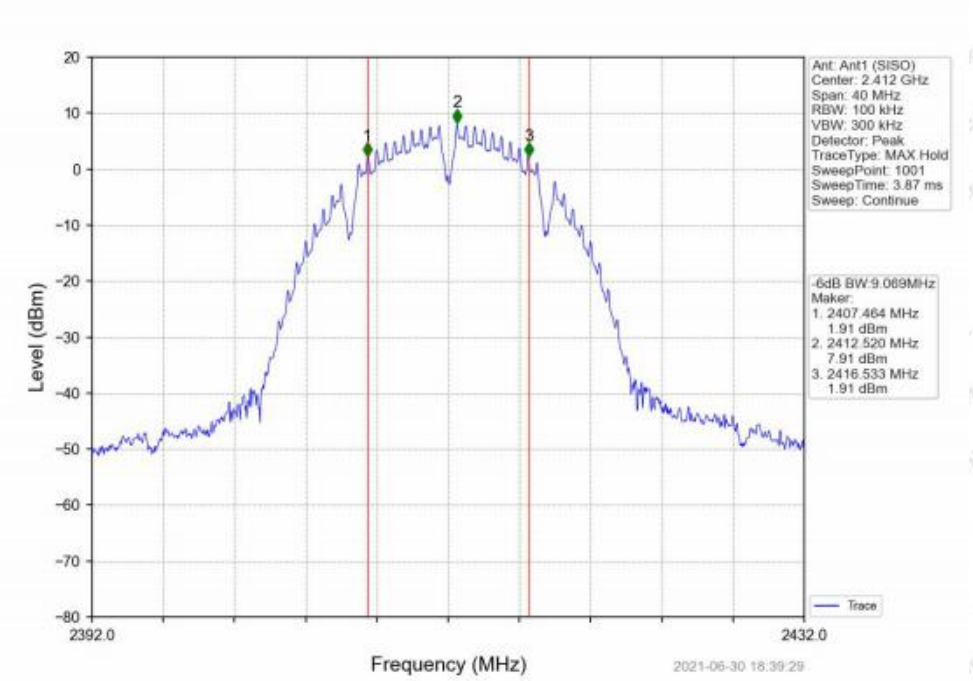
2.2 6dB BW

2.2.1 Test Result

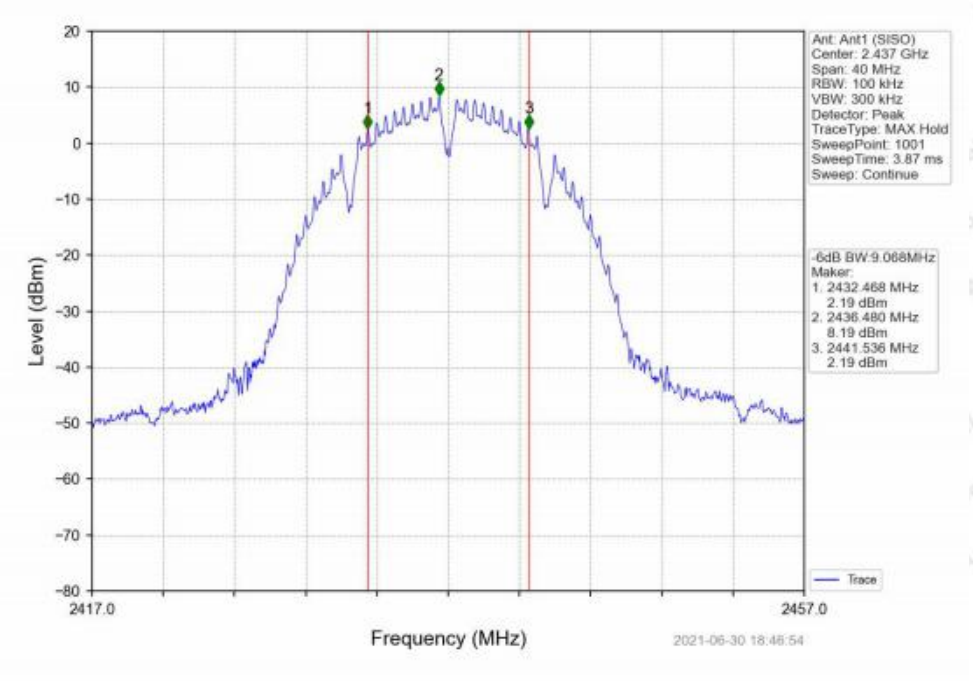
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	6dB Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	1	9.07	>=0.5	Pass
		2437	/	/	1	9.07	>=0.5	Pass
		2462	/	/	1	9.07	>=0.5	Pass
802.11g	SISO	2412	/	/	1	8.13	>=0.5	Pass
		2437	/	/	1	8.15	>=0.5	Pass
		2462	/	/	1	7.58	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	8.15	>=0.5	Pass
		2437	/	/	1	9.97	>=0.5	Pass
		2462	/	/	1	7.63	>=0.5	Pass

2.2.2 Test Graph

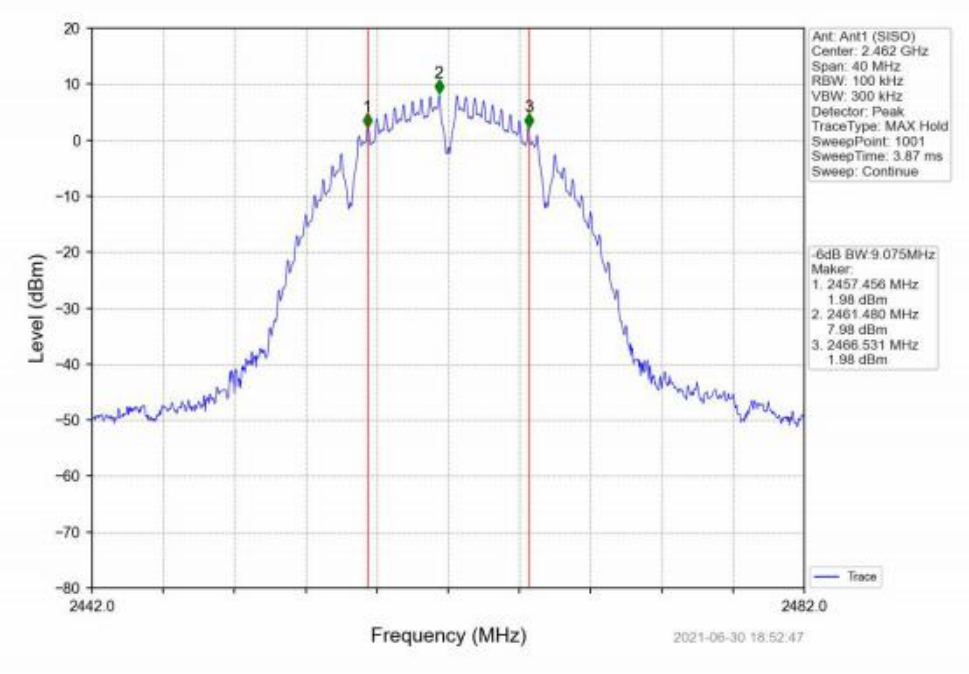
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



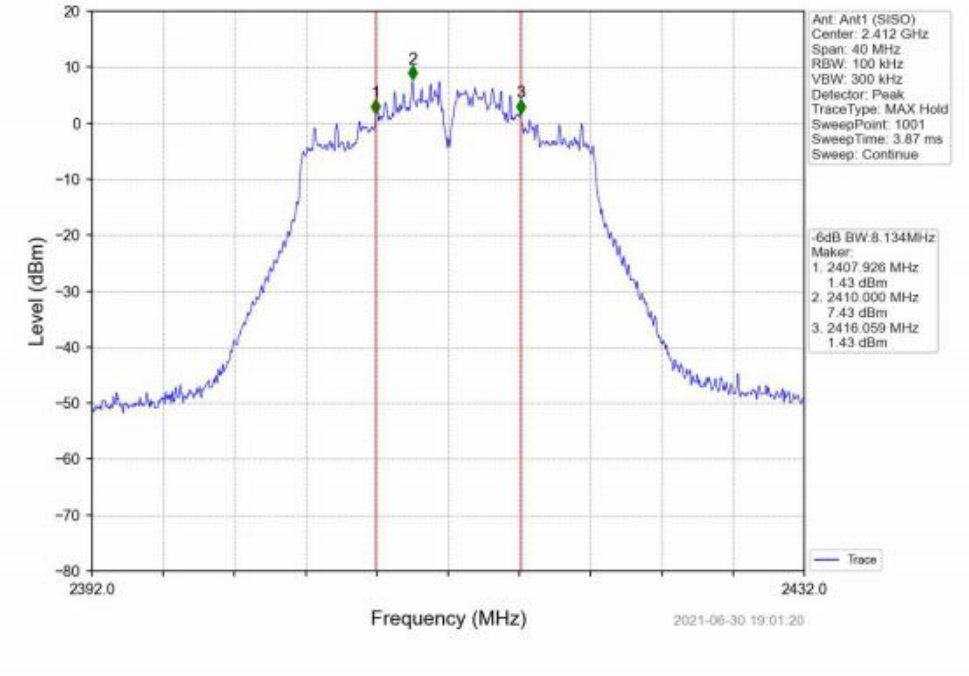
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



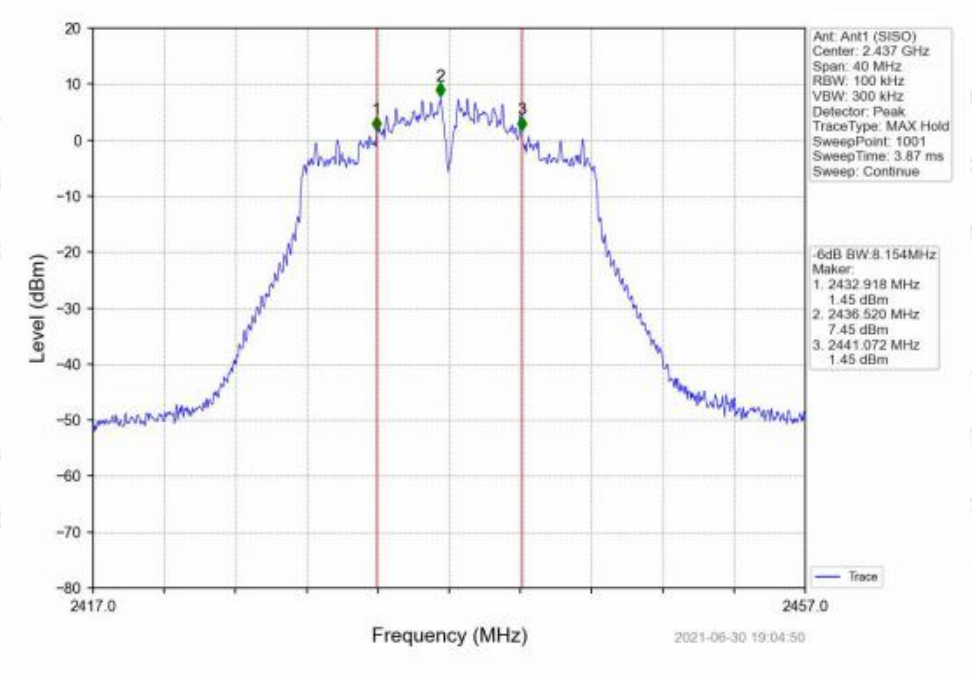
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



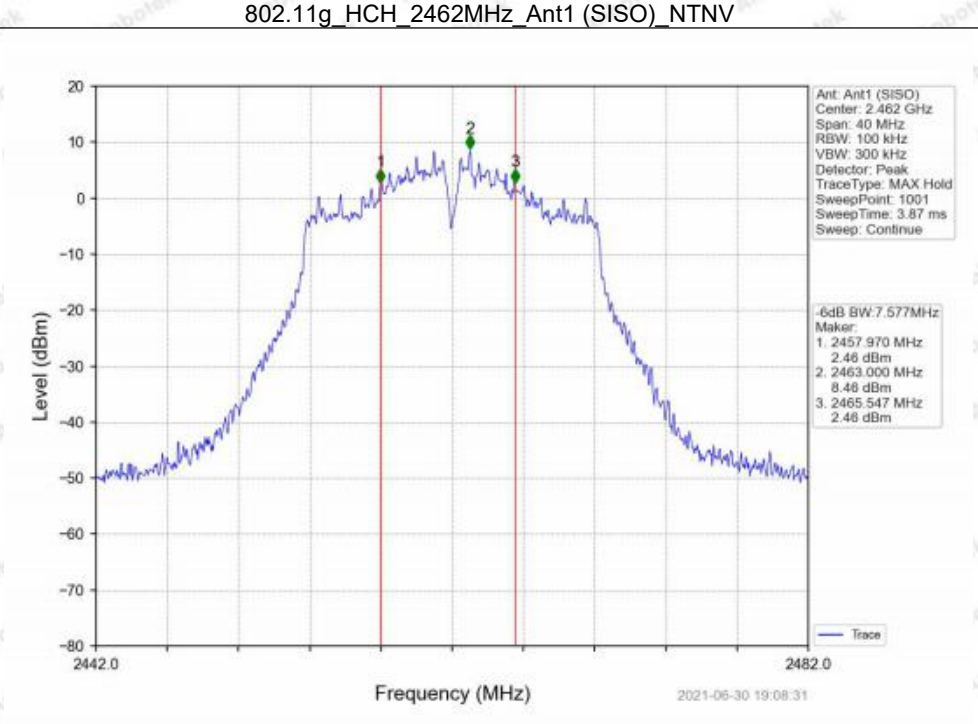
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



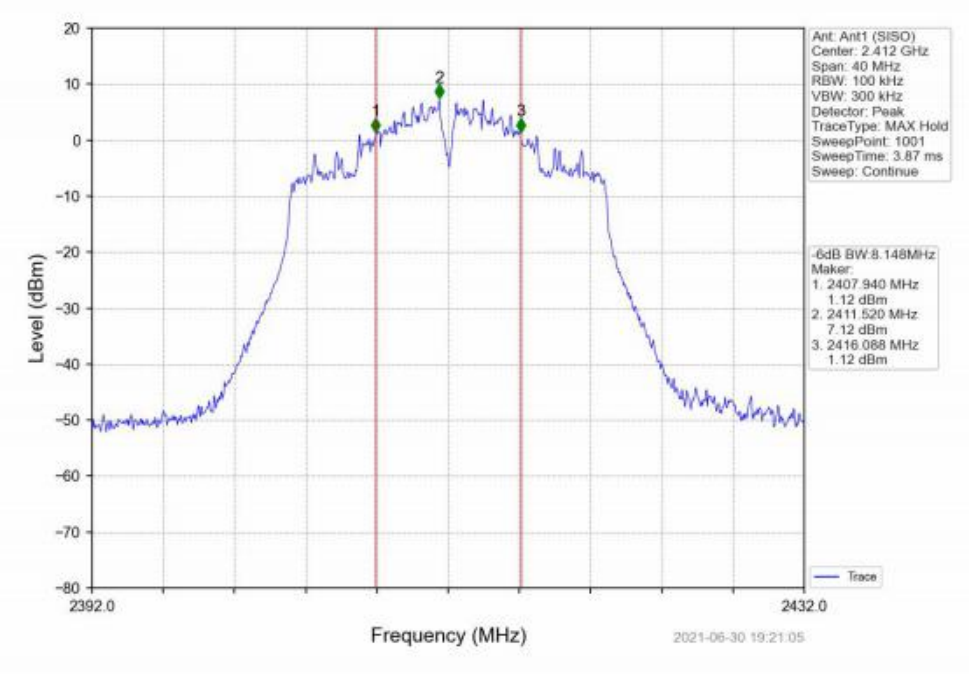
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



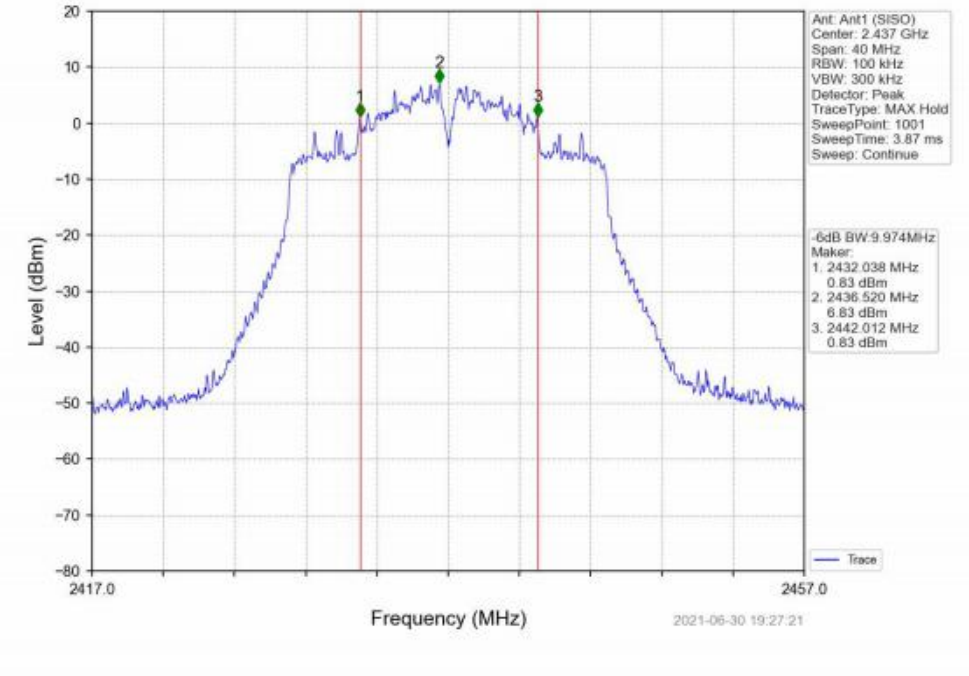
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



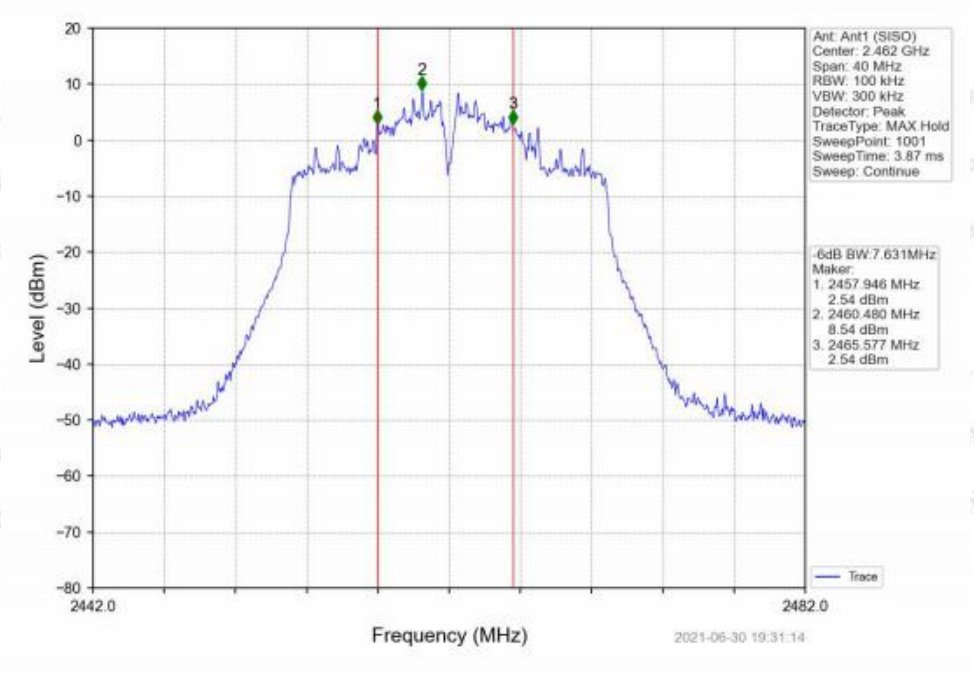
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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) Ant1	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	19.03	<=30	Pass
		2437	/	/	19.11	<=30	Pass
		2462	/	/	19.33	<=30	Pass
802.11g	SISO	2412	/	/	19.20	<=30	Pass
		2437	/	/	19.27	<=30	Pass
		2462	/	/	21.64	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	19.31	<=30	Pass
		2437	/	/	20.13	<=30	Pass
		2462	/	/	22.46	<=30	Pass
Note1: Antenna Gain: 1dBi;							

4. Maximum Power Spectral Density

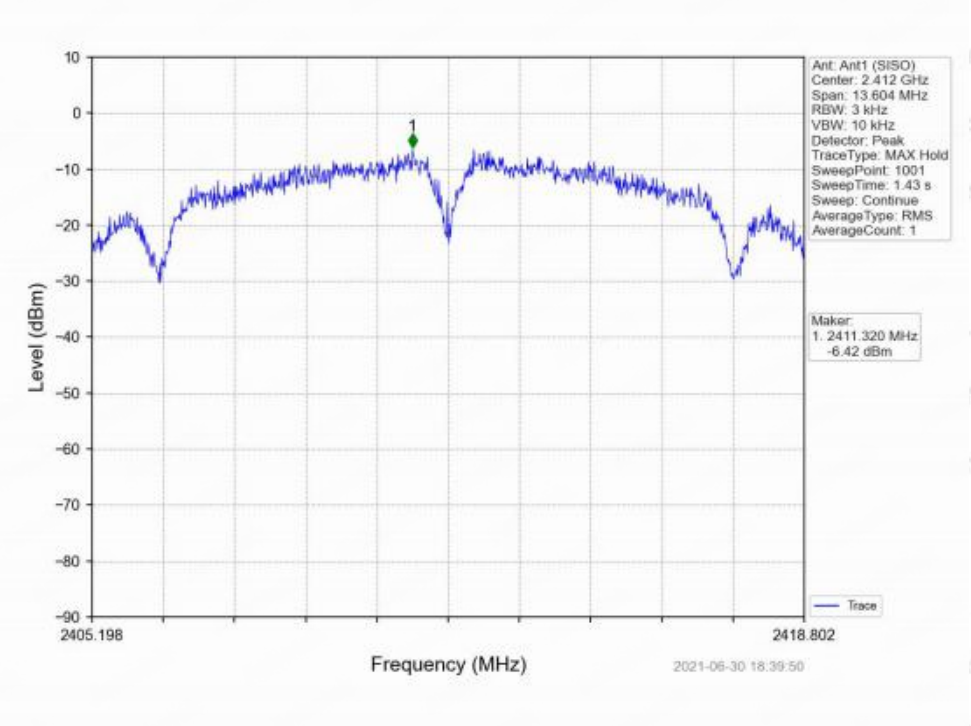
4.1 PSD

4.1.1 Test Result

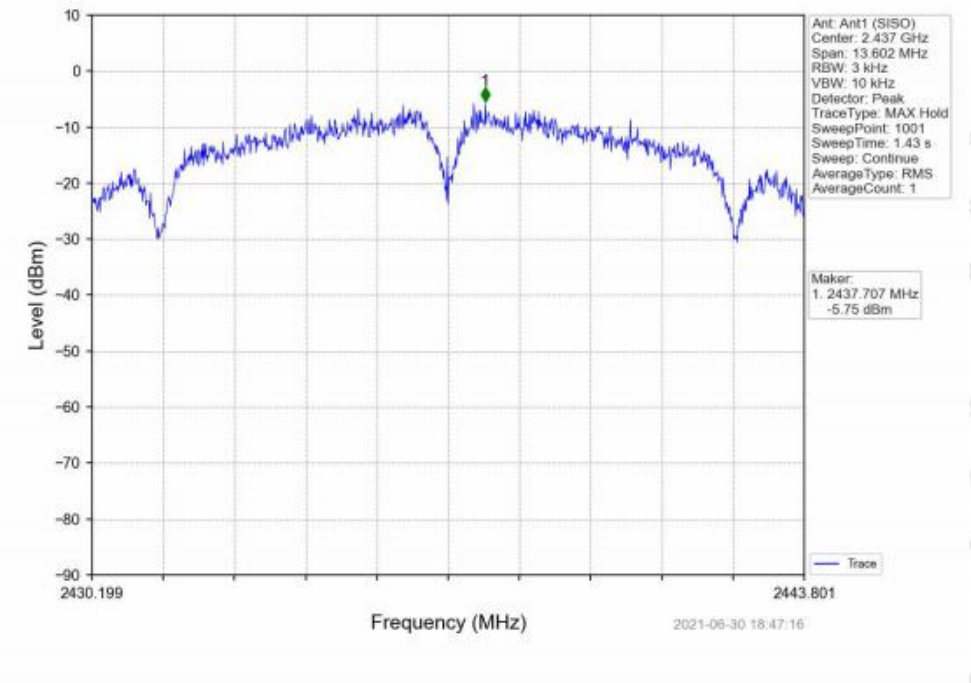
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz) Ant1	Limit (dBm/3kHz)	Verdict
802.11b	SISO	2412	/	/	-6.42	<=8	Pass
		2437	/	/	-5.75	<=8	Pass
		2462	/	/	-5.67	<=8	Pass
802.11g	SISO	2412	/	/	-6.89	<=8	Pass
		2437	/	/	-7.12	<=8	Pass
		2462	/	/	-8.66	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-7.23	<=8	Pass
		2437	/	/	-6.85	<=8	Pass
		2462	/	/	-6.17	<=8	Pass
Note1: Antenna Gain: 1dBi;							

4.1.2 Test Graph

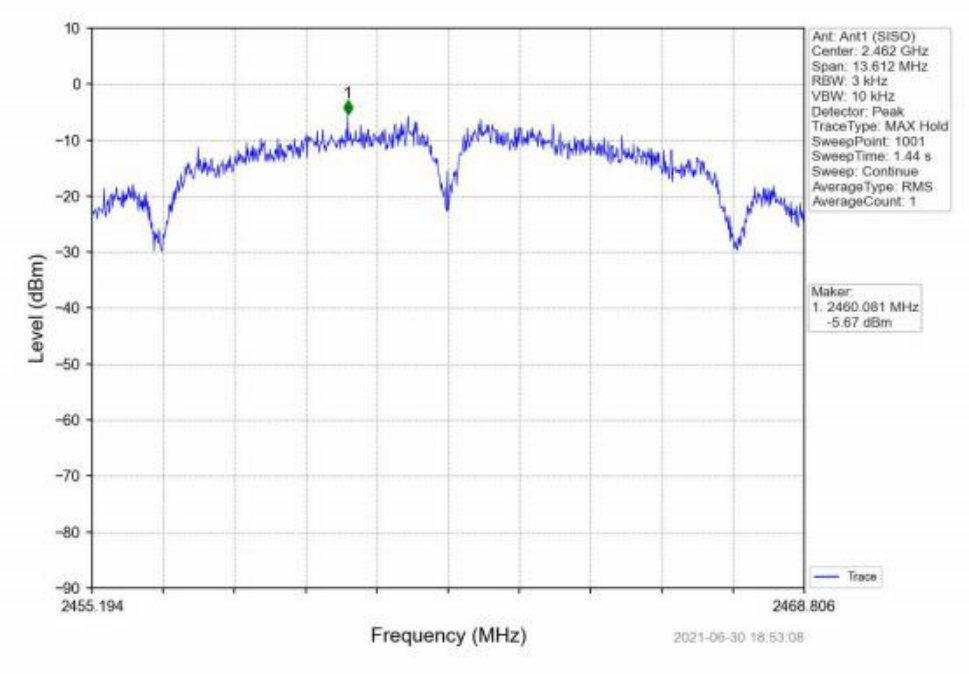
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



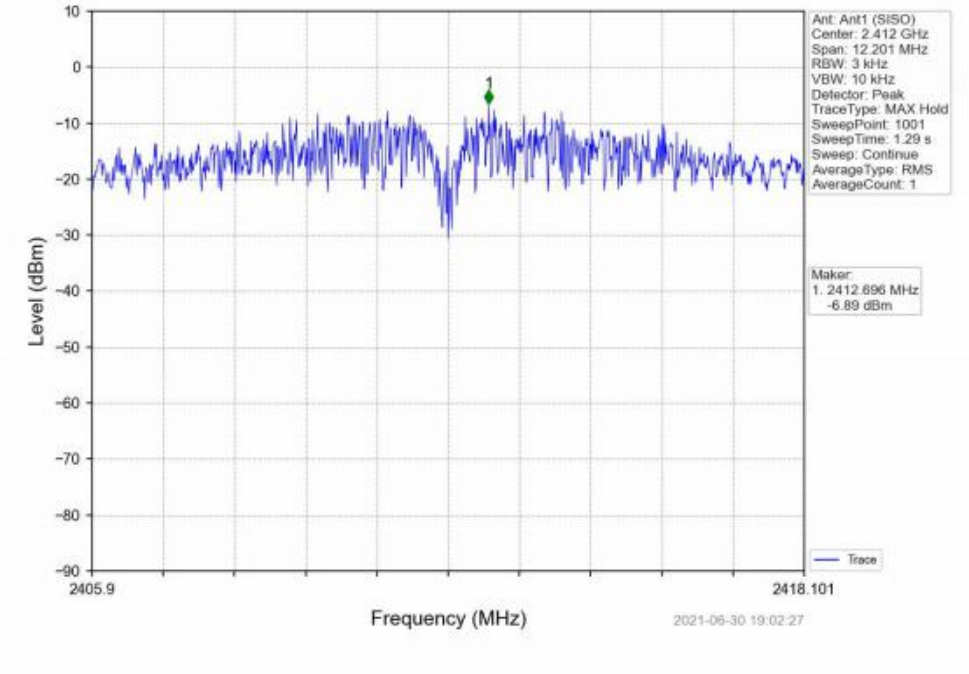
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



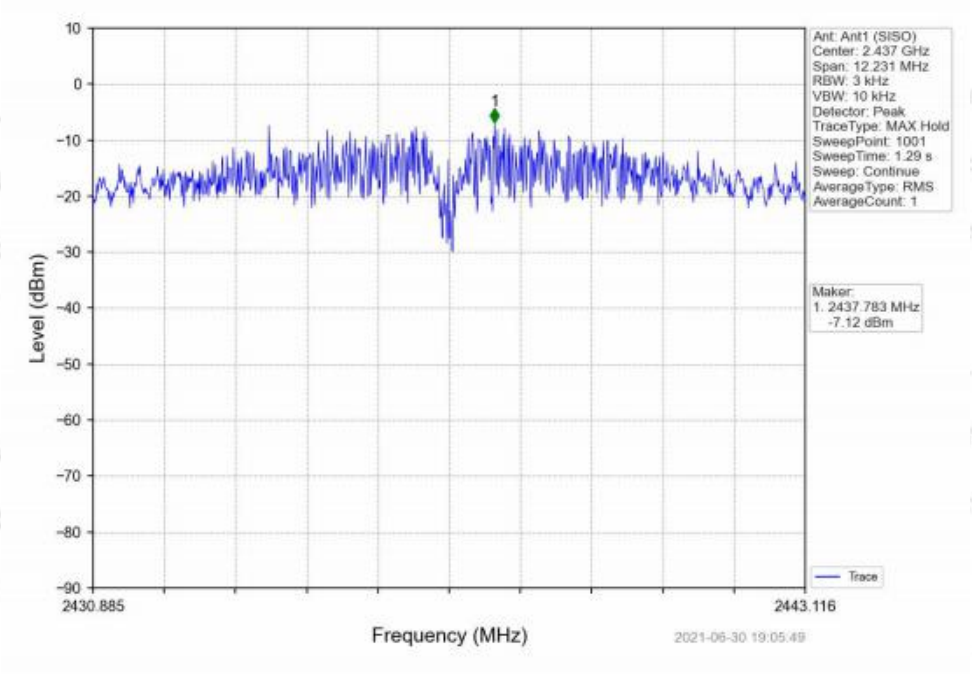
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



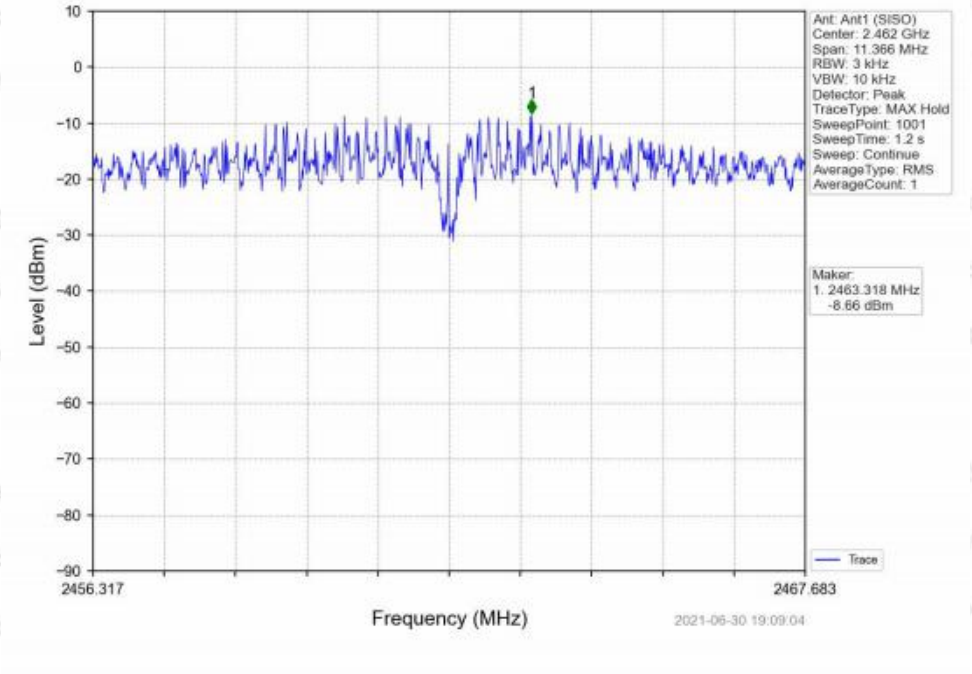
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



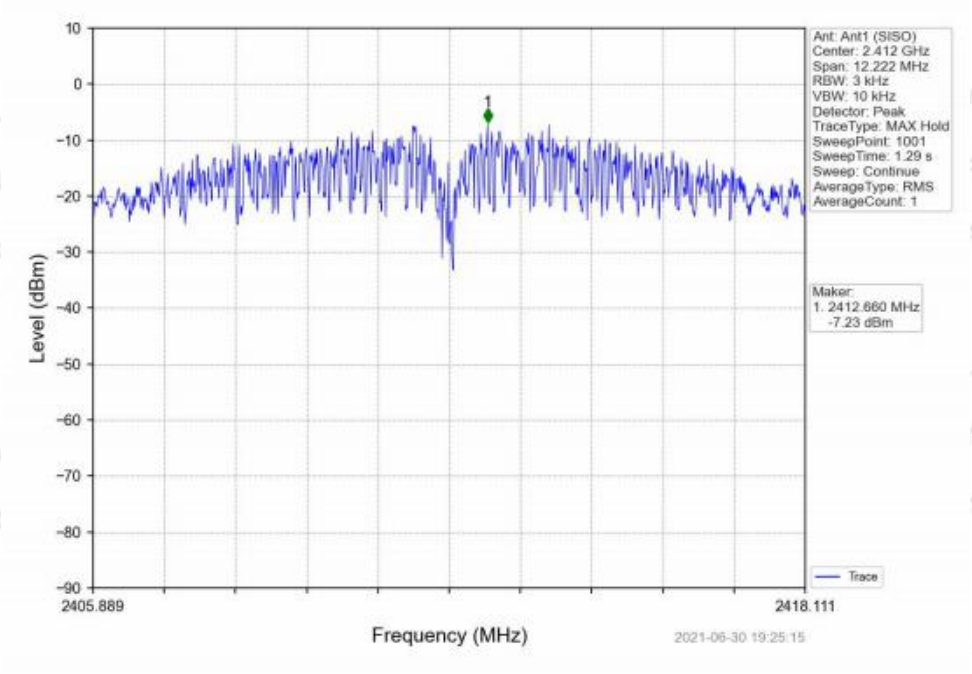
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



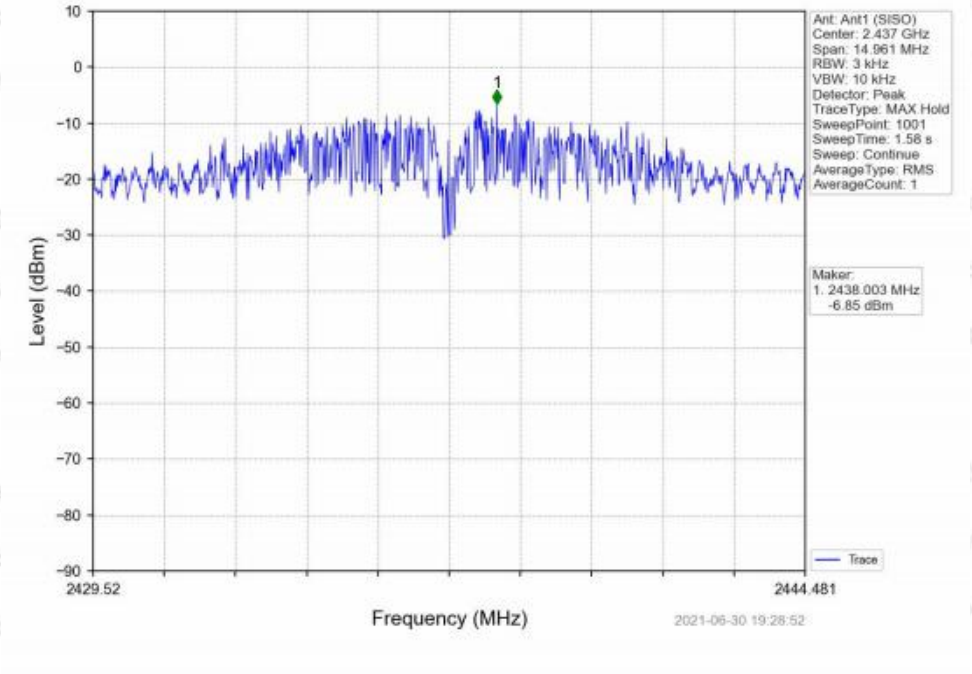
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



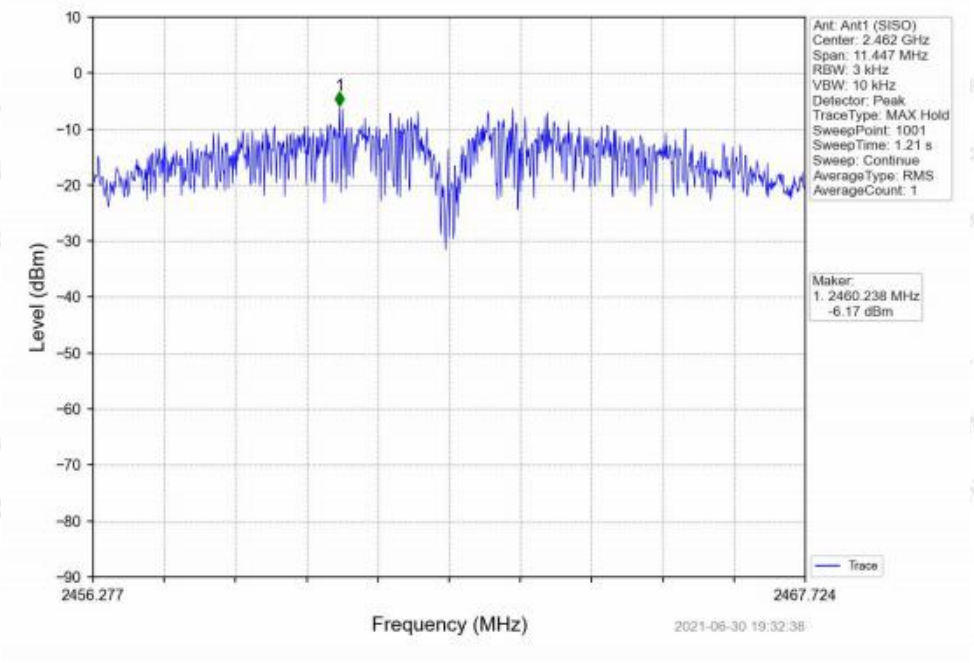
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

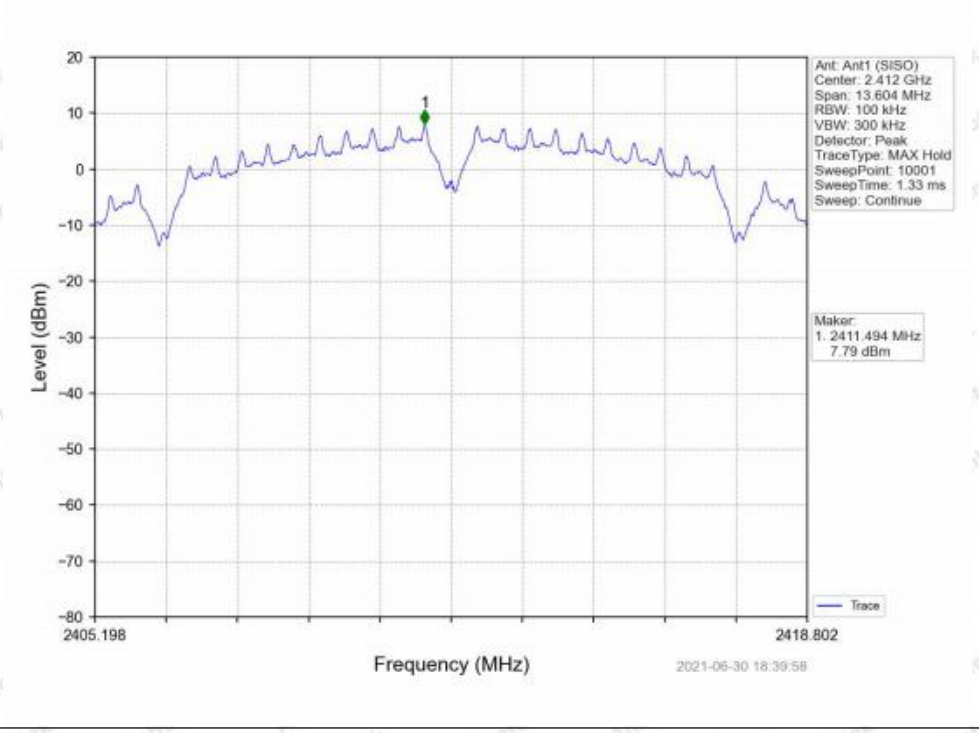
5.1 Ref

5.1.1 Test Result

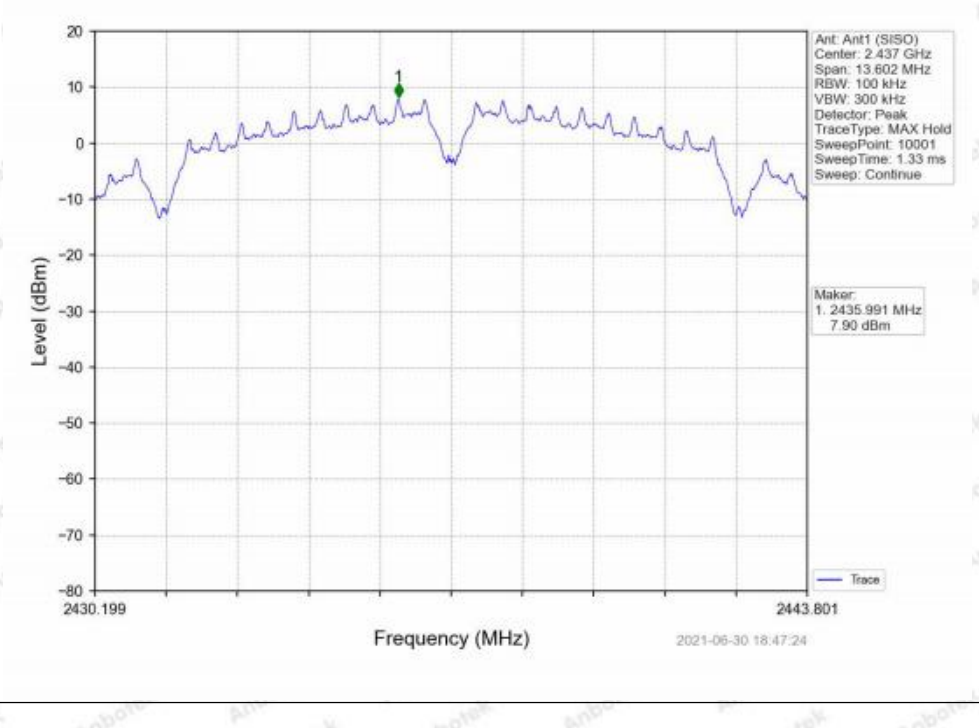
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	7.79	/	/
		2437	/	/	1	7.90	/	/
		2462	/	/	1	8.07	/	/
802.11g	SISO	2412	/	/	1	8.23	/	/
		2437	/	/	1	7.05	/	/
		2462	/	/	1	8.14	/	/
802.11n (HT20)	SISO	2412	/	/	1	5.69	/	/
		2437	/	/	1	9.02	/	/
		2462	/	/	1	6.88	/	/
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.								

5.1.2 Test Graph

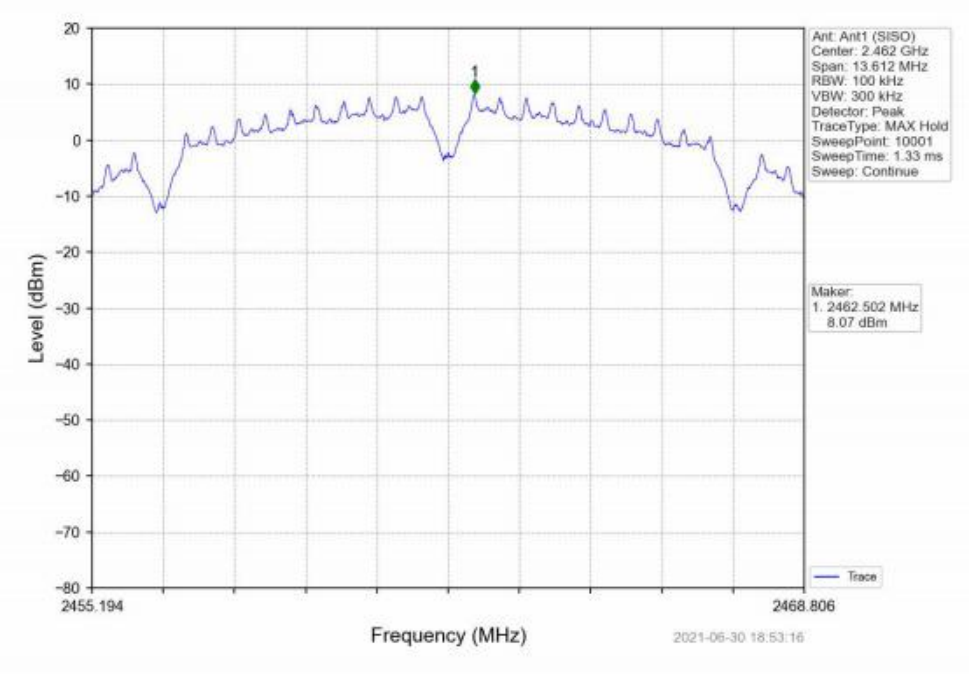
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



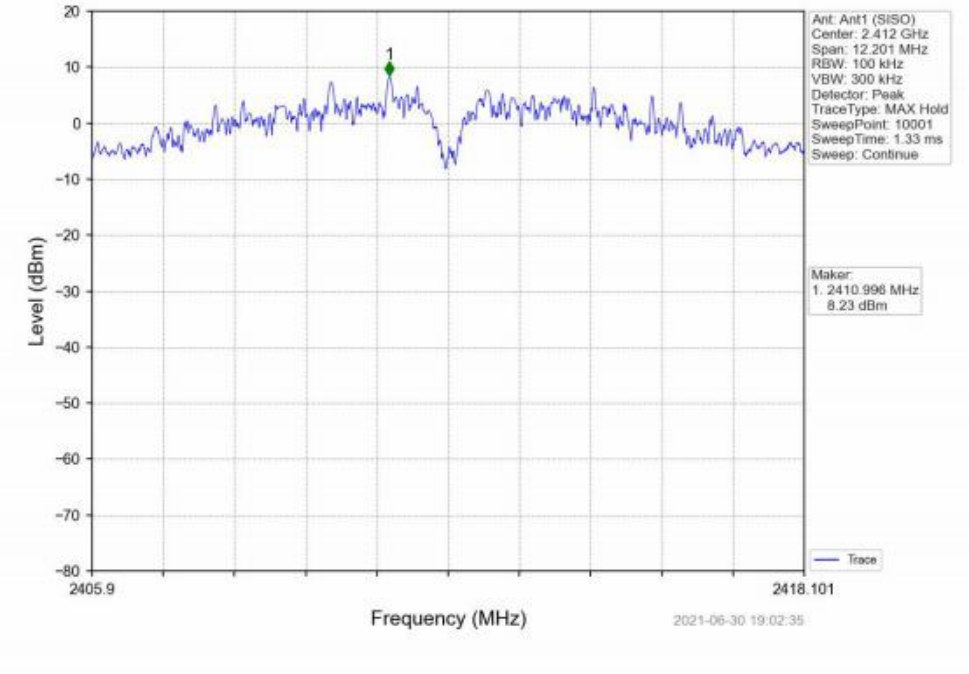
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



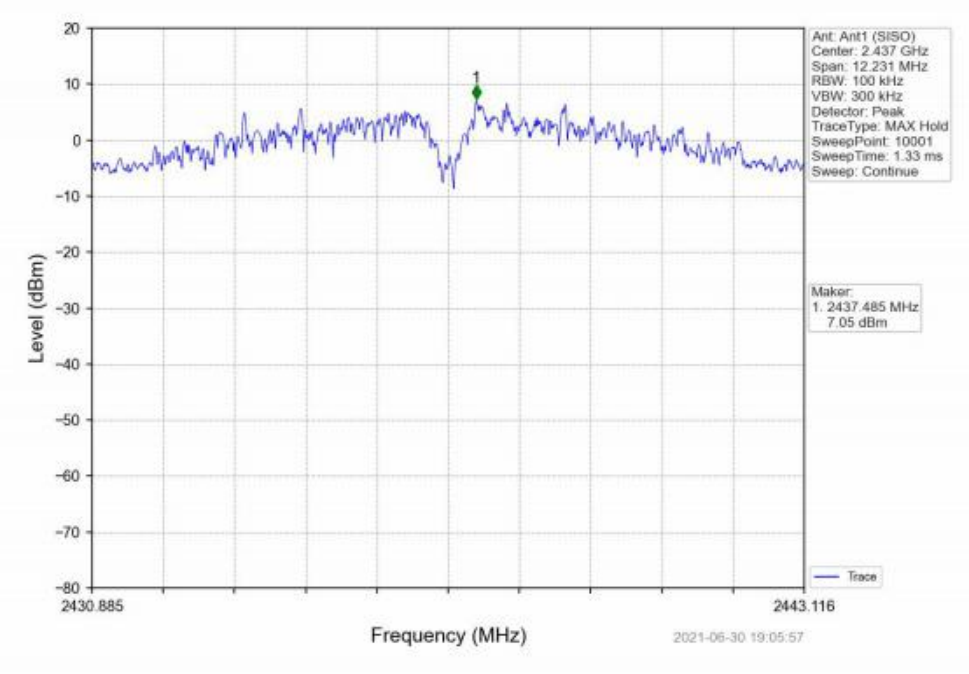
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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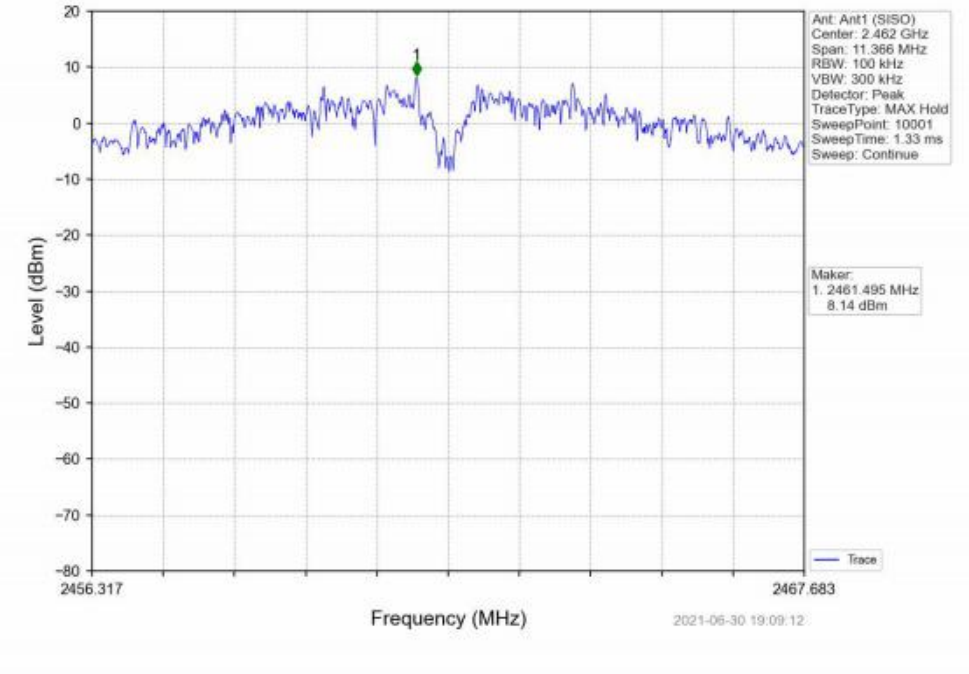
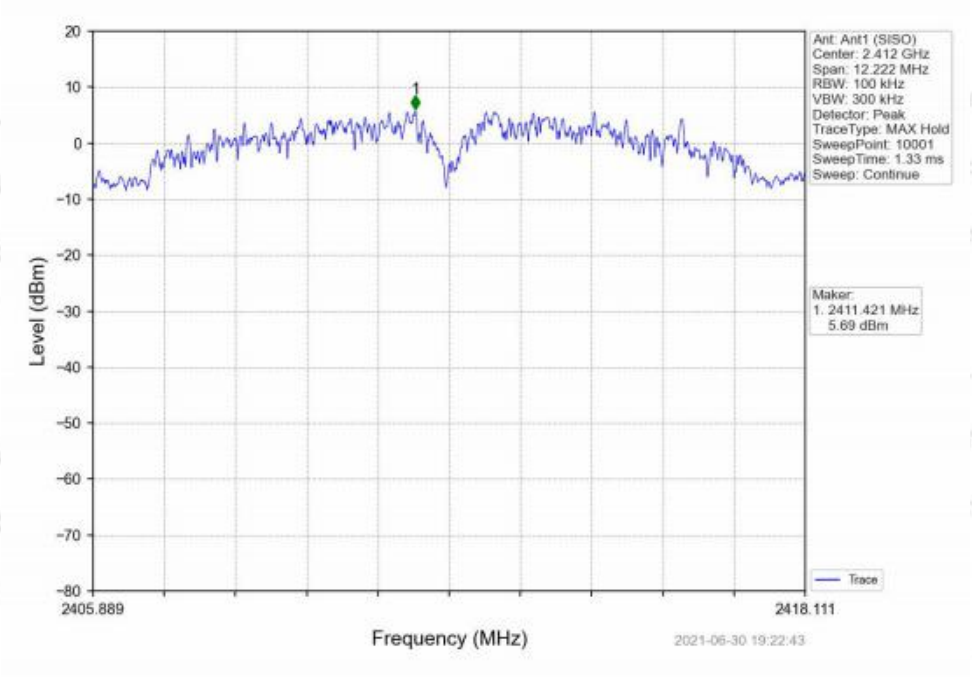
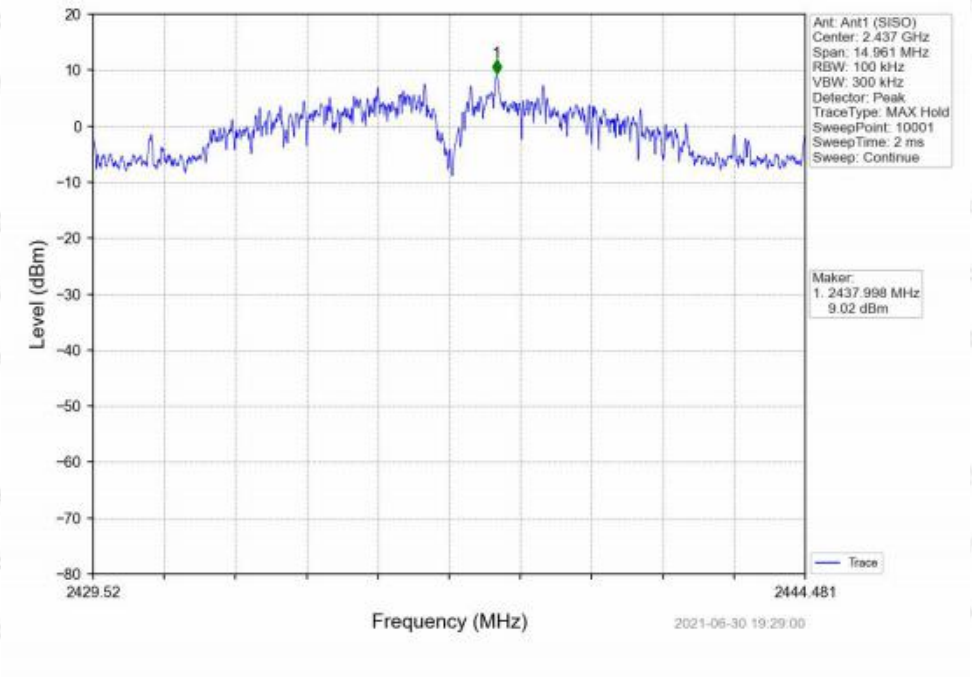


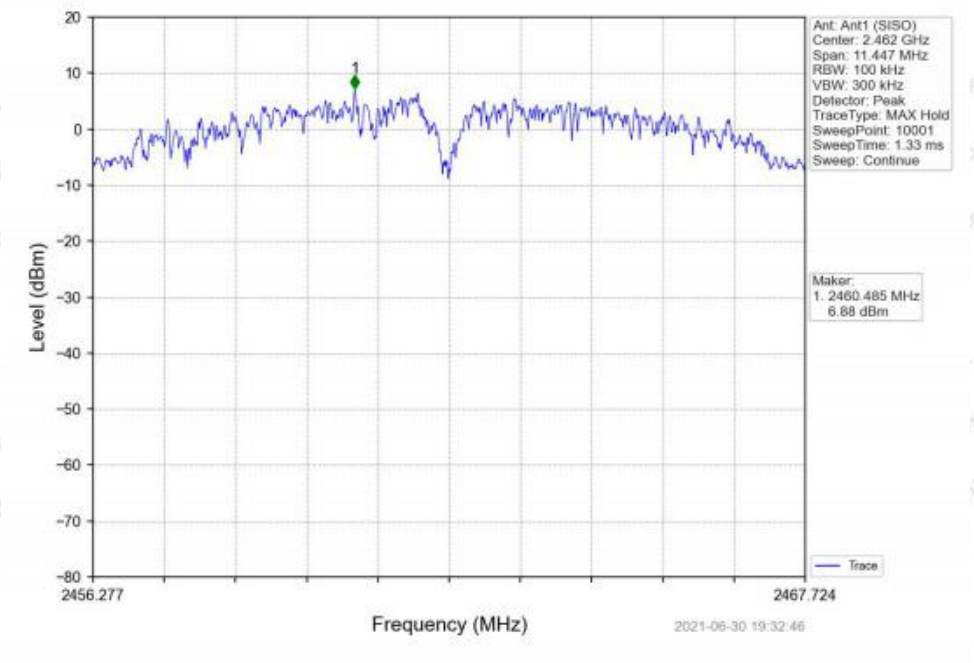
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



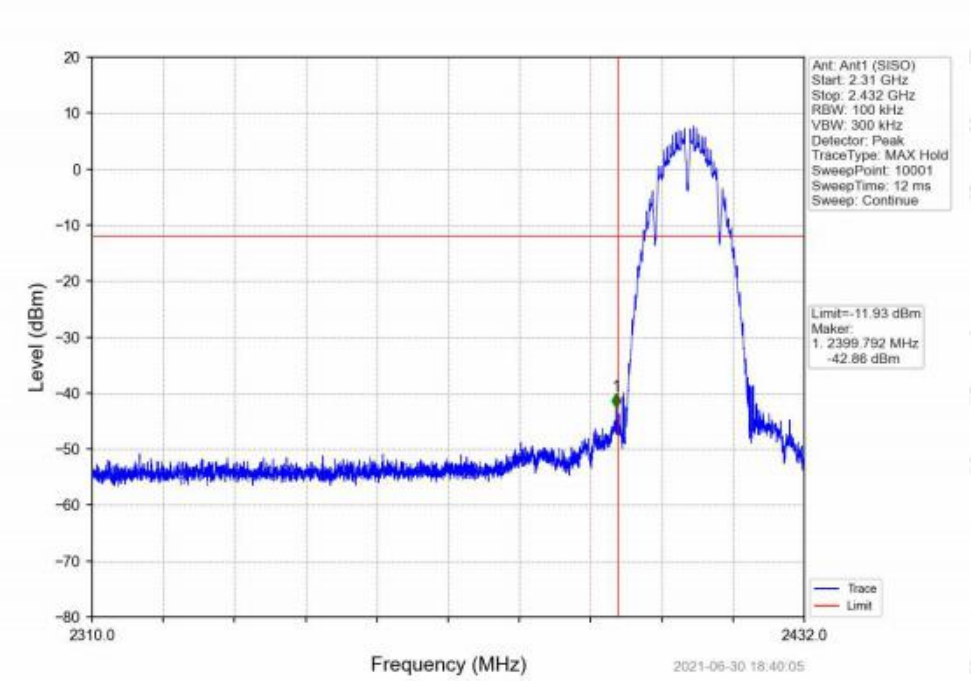
5.2 CSE

5.2.1 Test Result

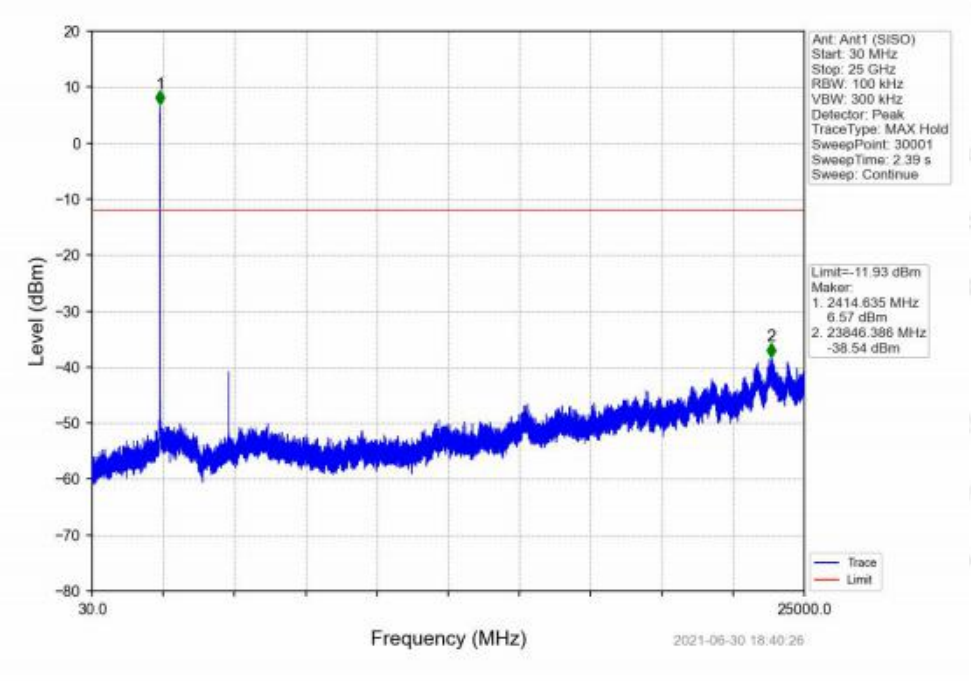
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
802.11g	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.								

5.2.2 Test Graph

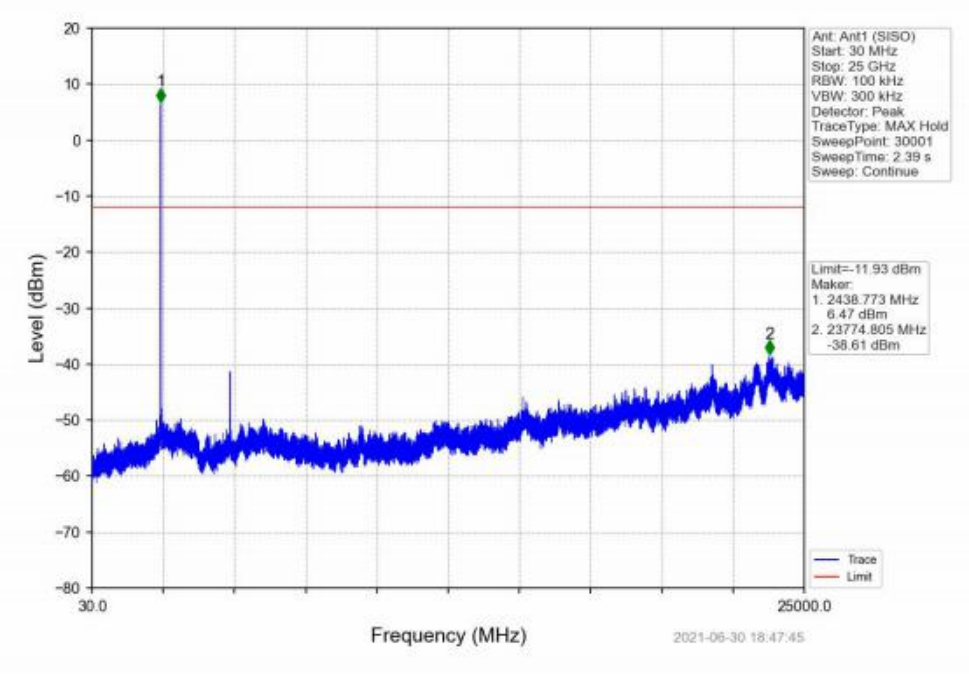
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



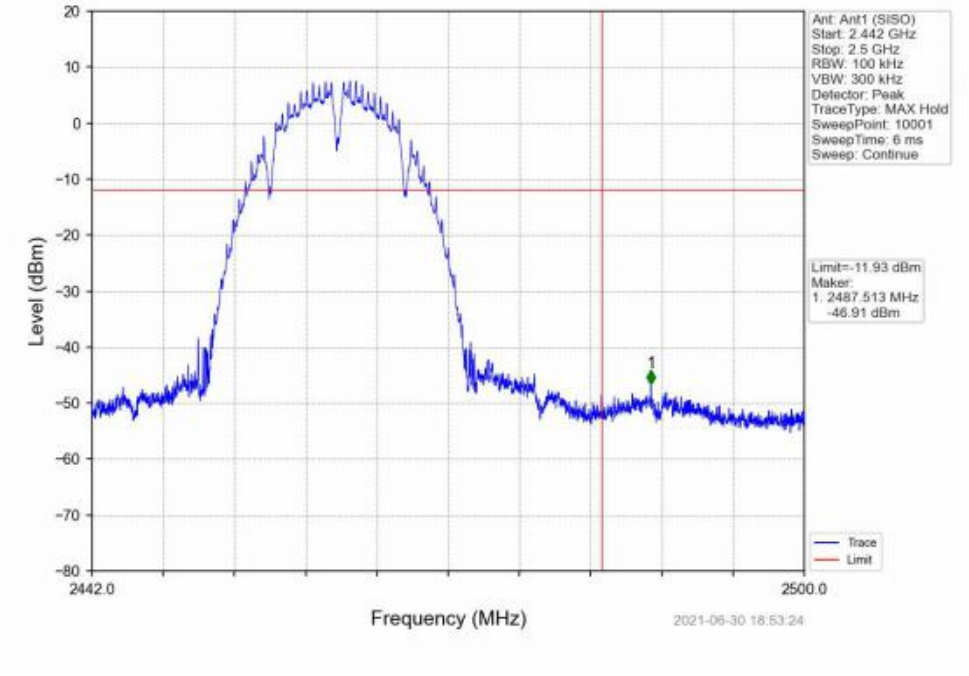
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



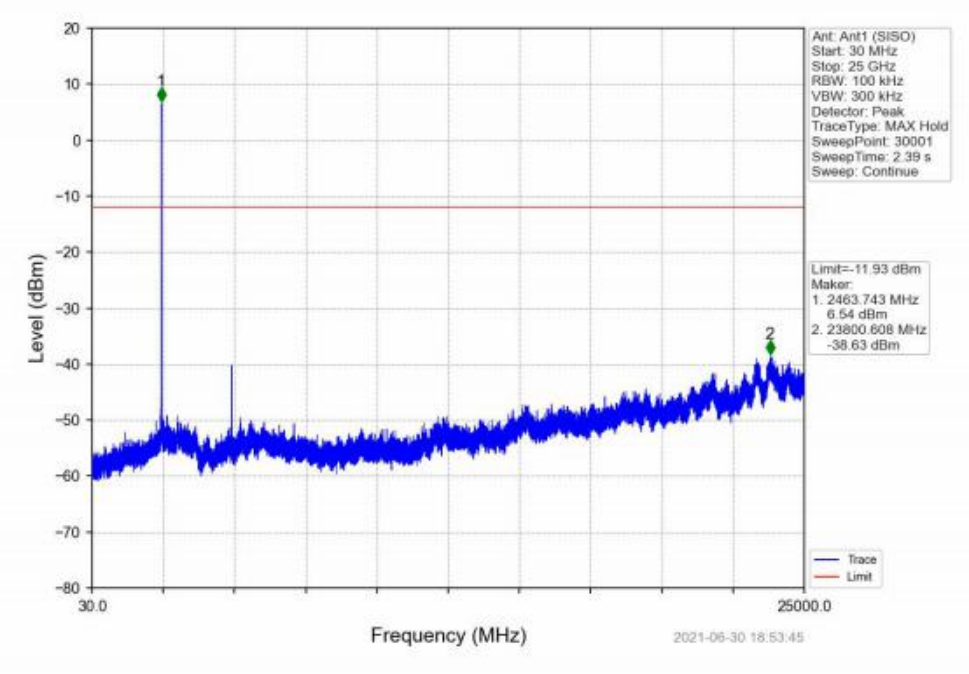
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



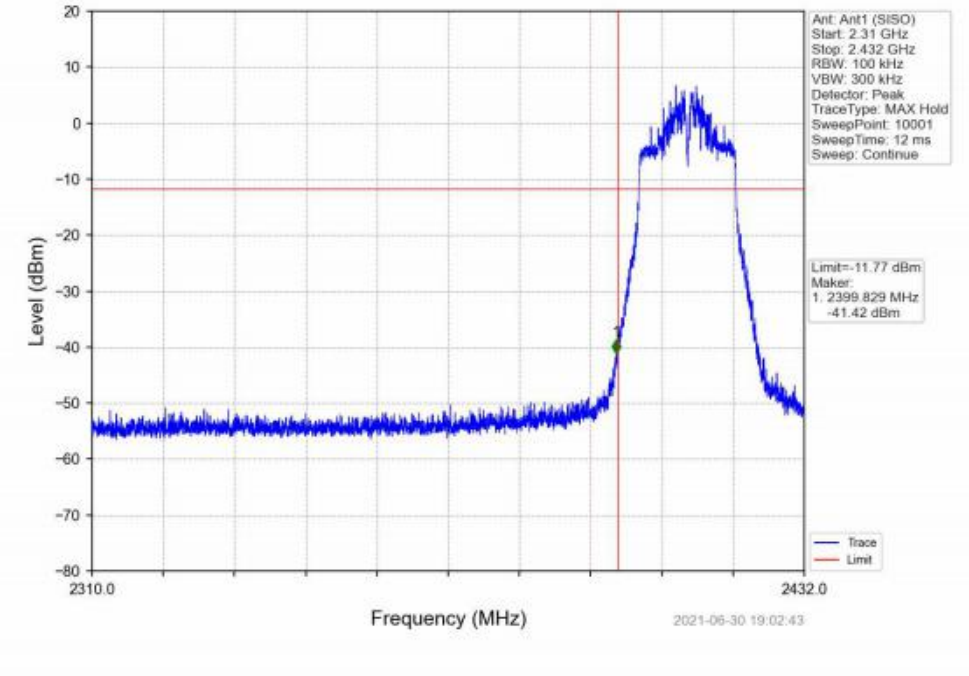
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



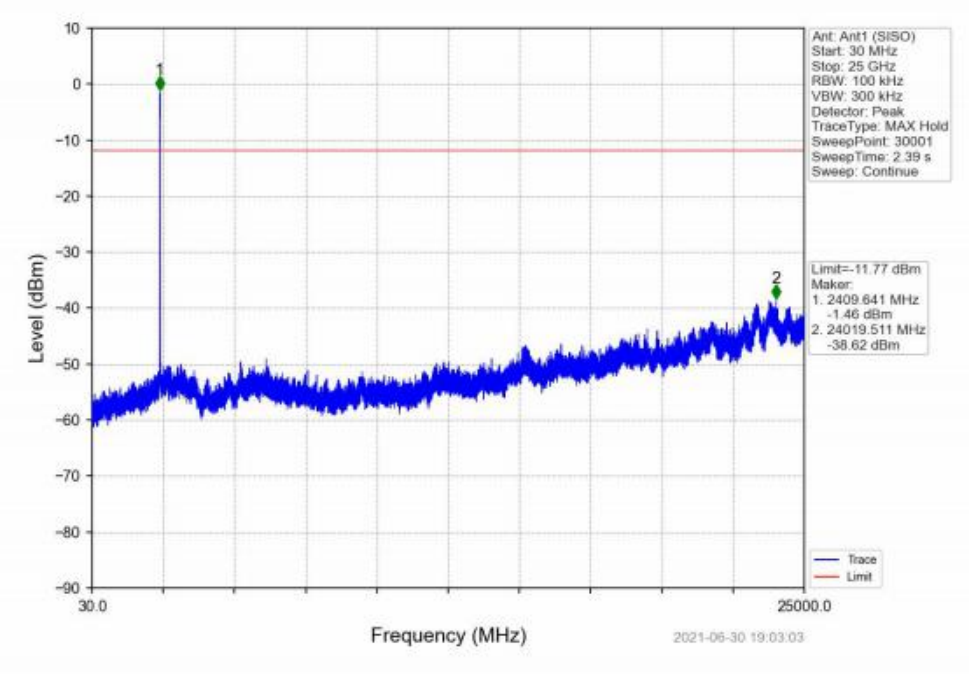
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



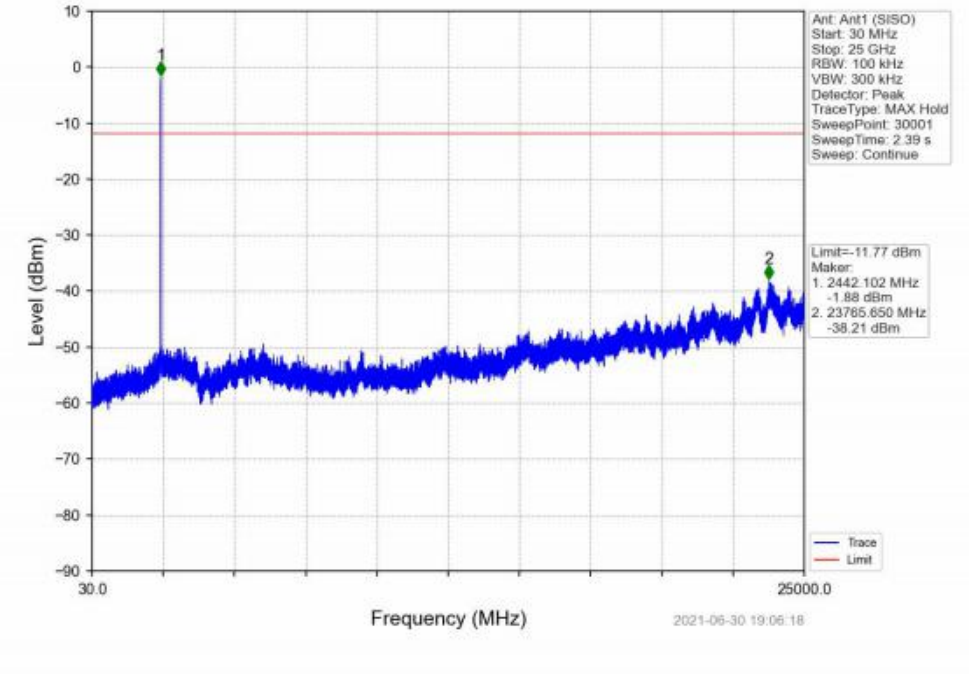
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



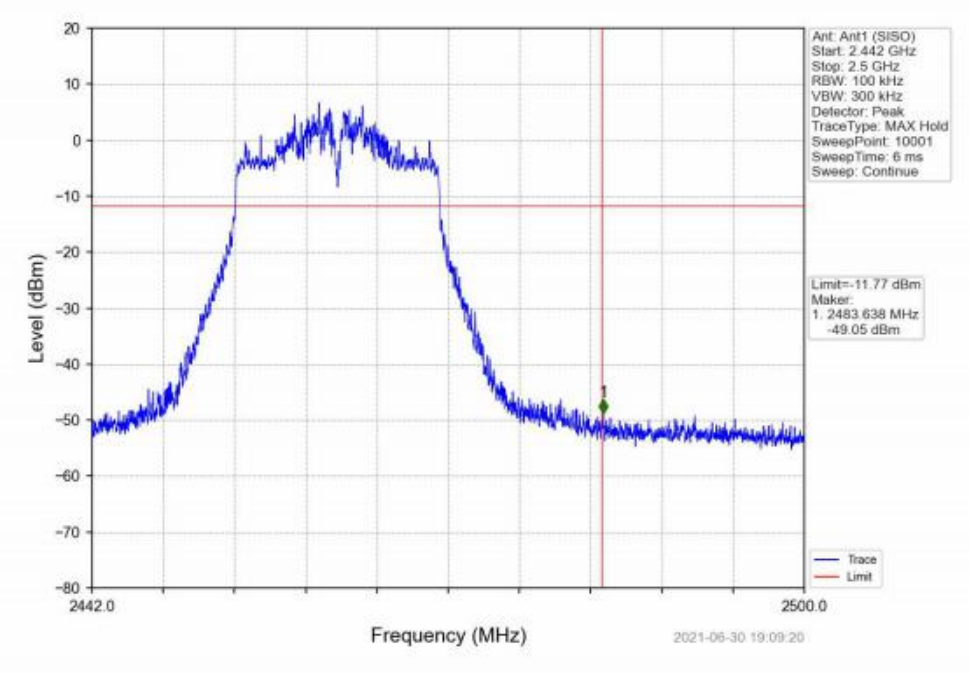
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



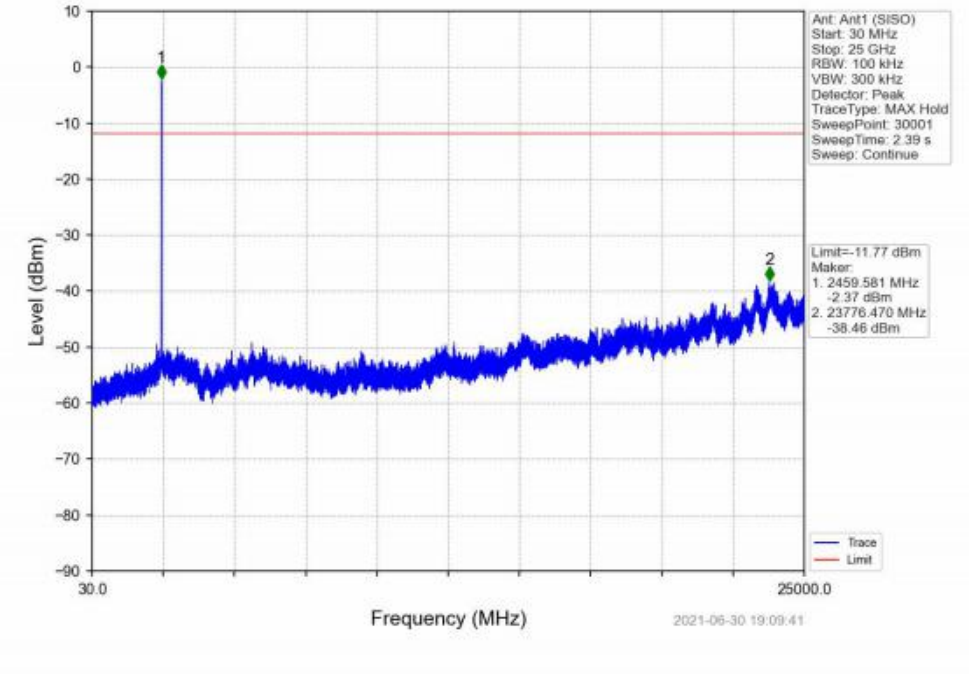
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



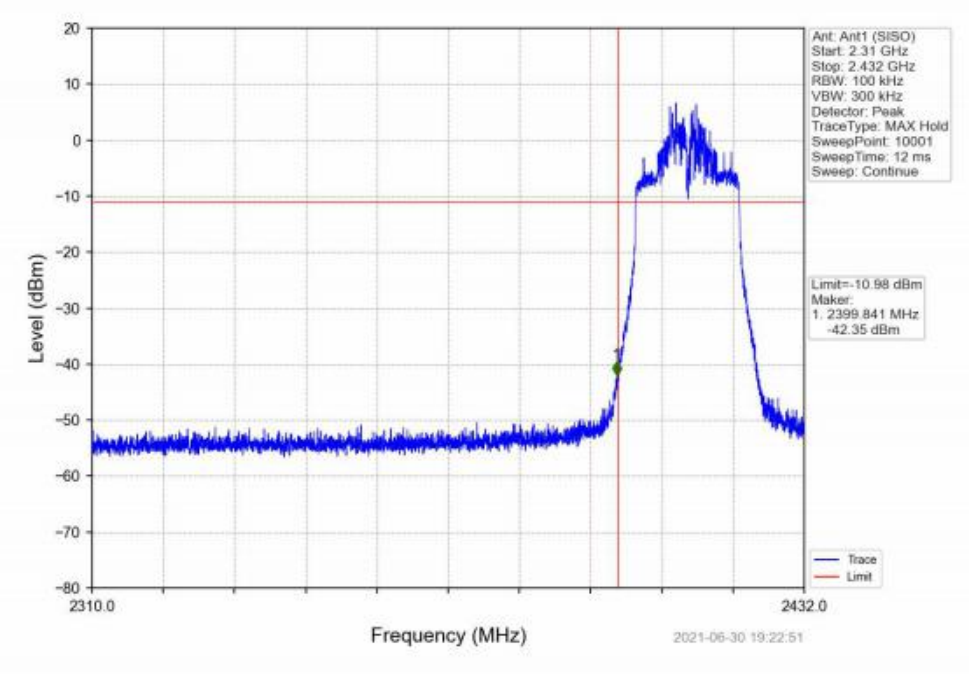
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



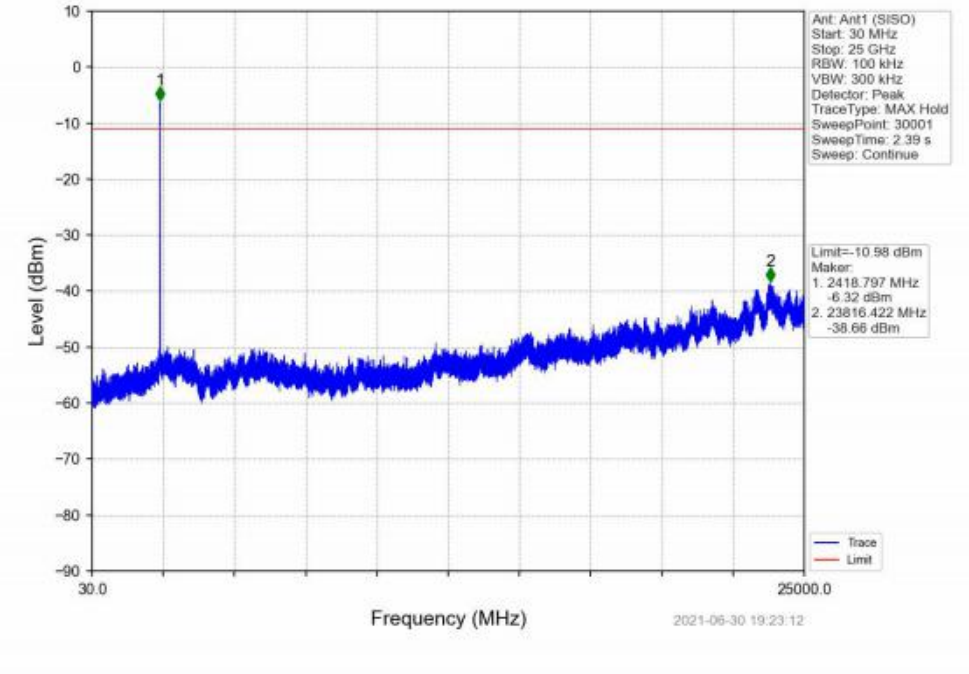
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



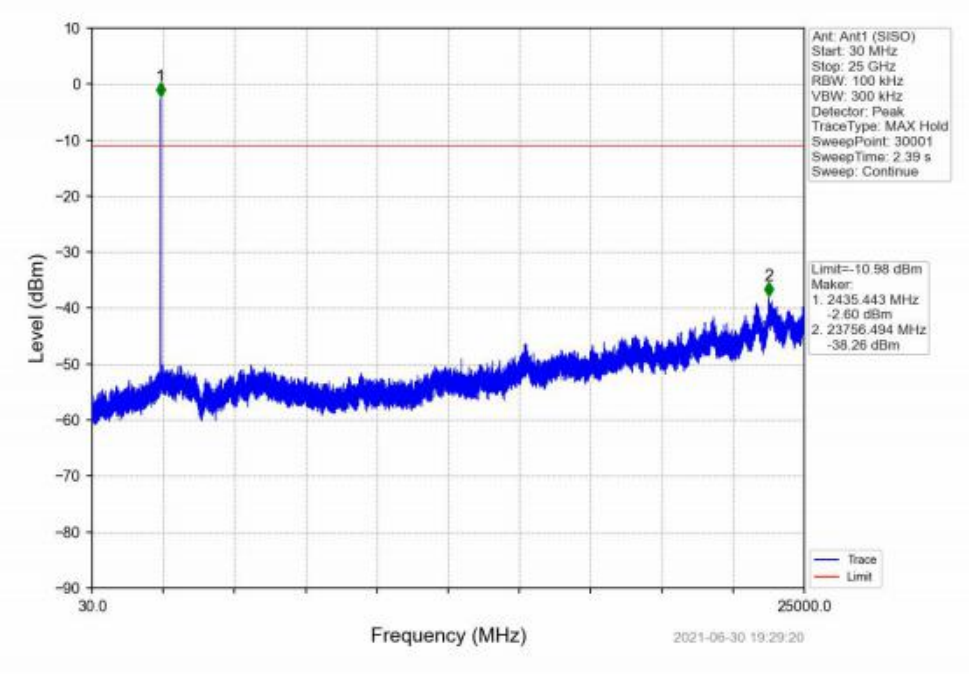
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



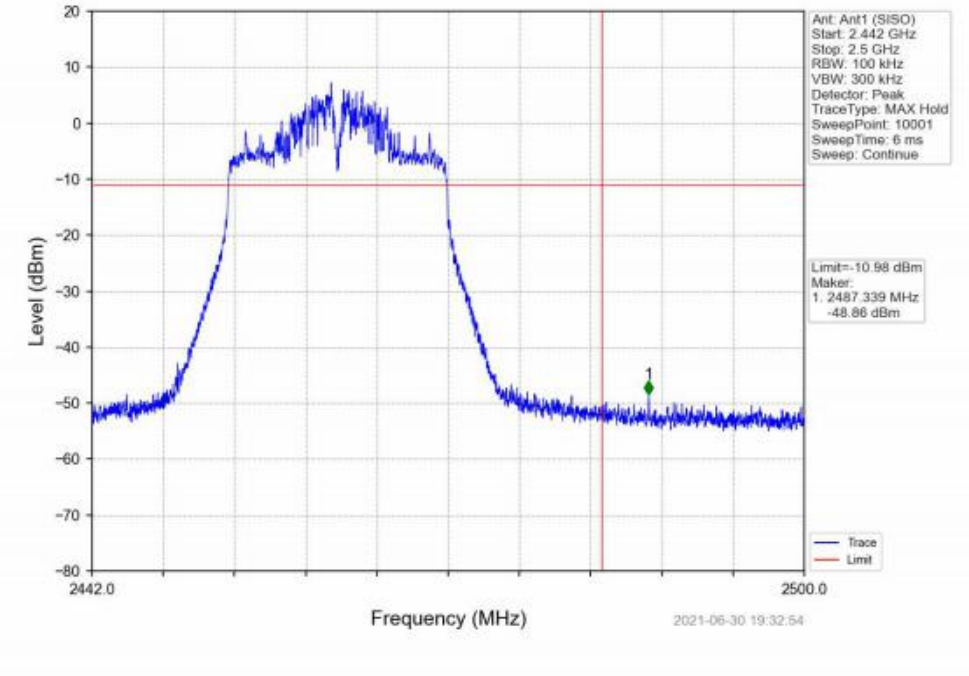
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



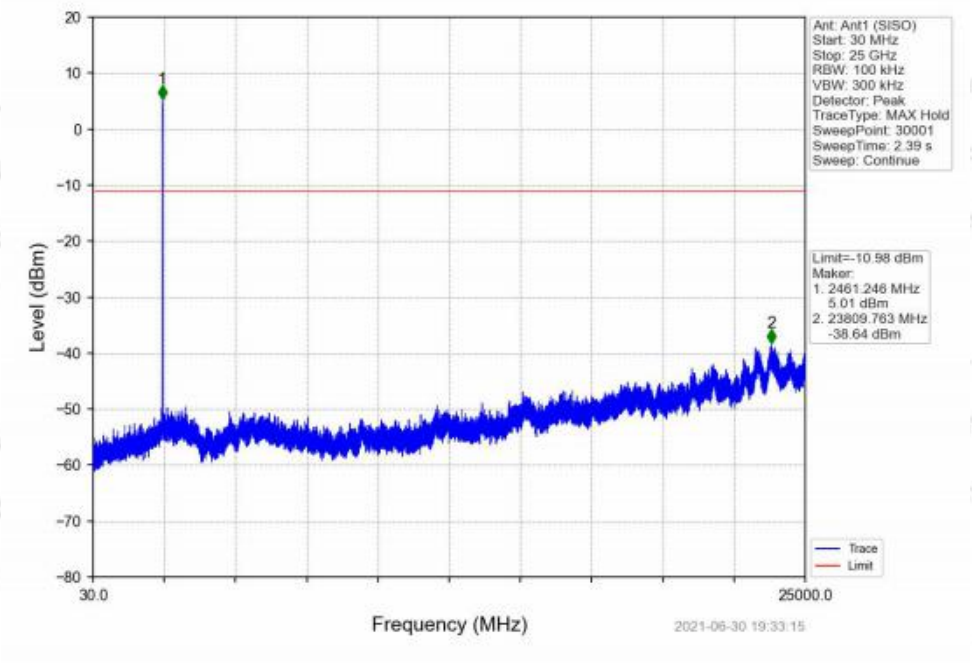
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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