

Appendix Test Data

Project No.:	18220WC10142501	Test Date:	2021.6.30
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.6°C	Relative Humidity:	56.3%
Pressure:	1012 hPa		

1. Duty Cycle

1.1 Ant1

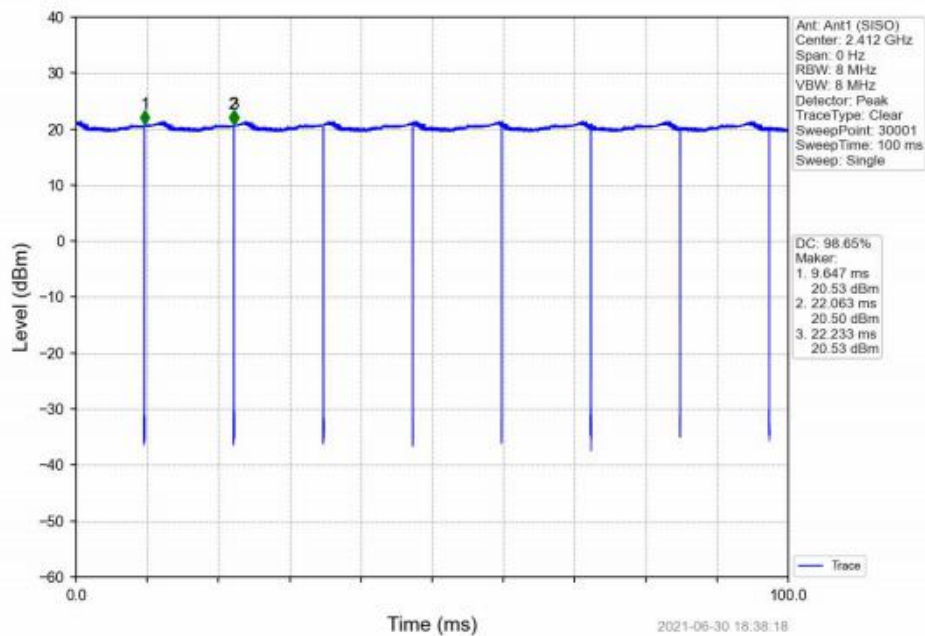
1.1.1 Test Result

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

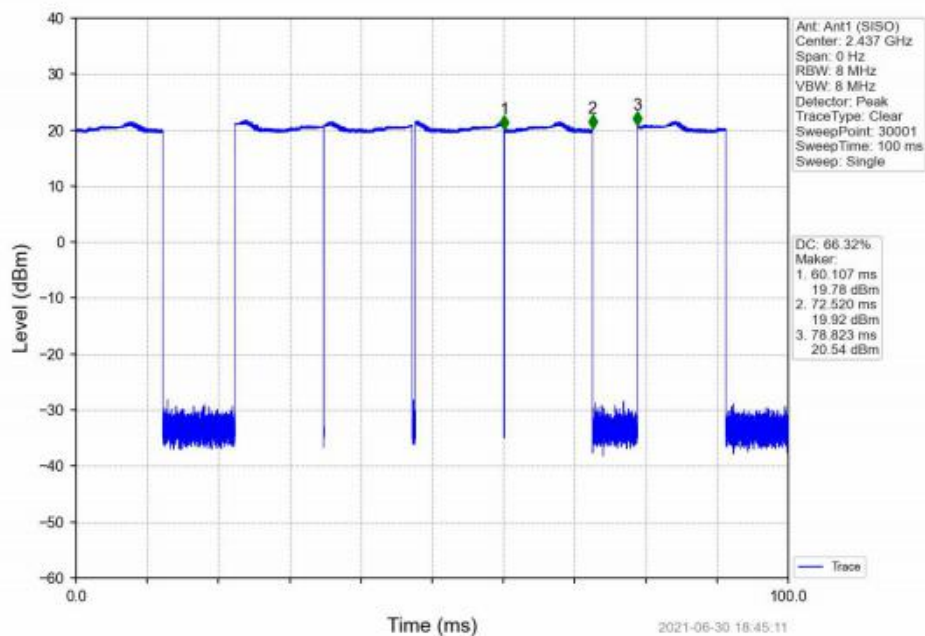
Note1: Only for Report Use

1.1.2 Test Graph

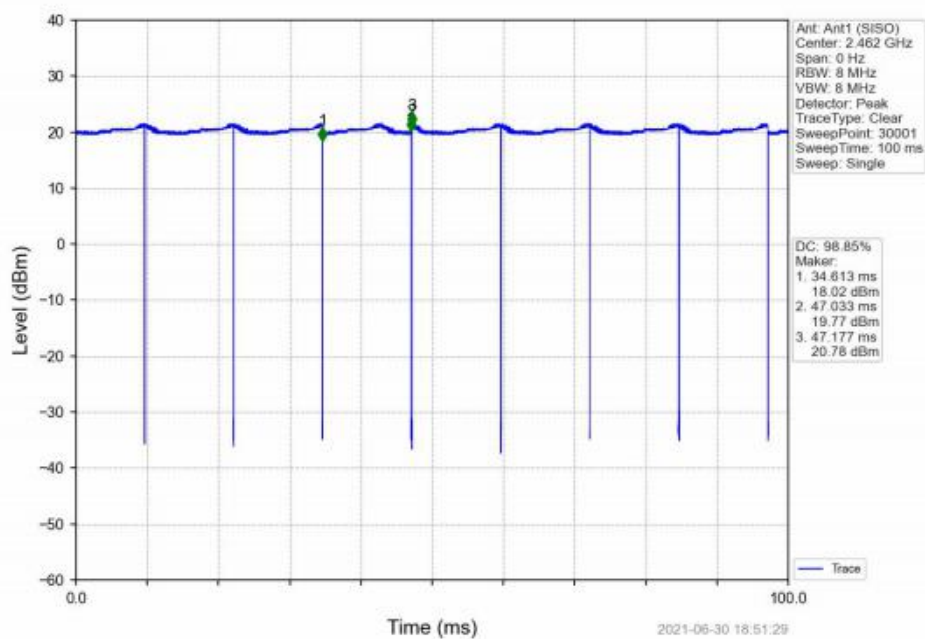
802.11b LCH 2412MHz_Ant1 (SISO)_NTNV



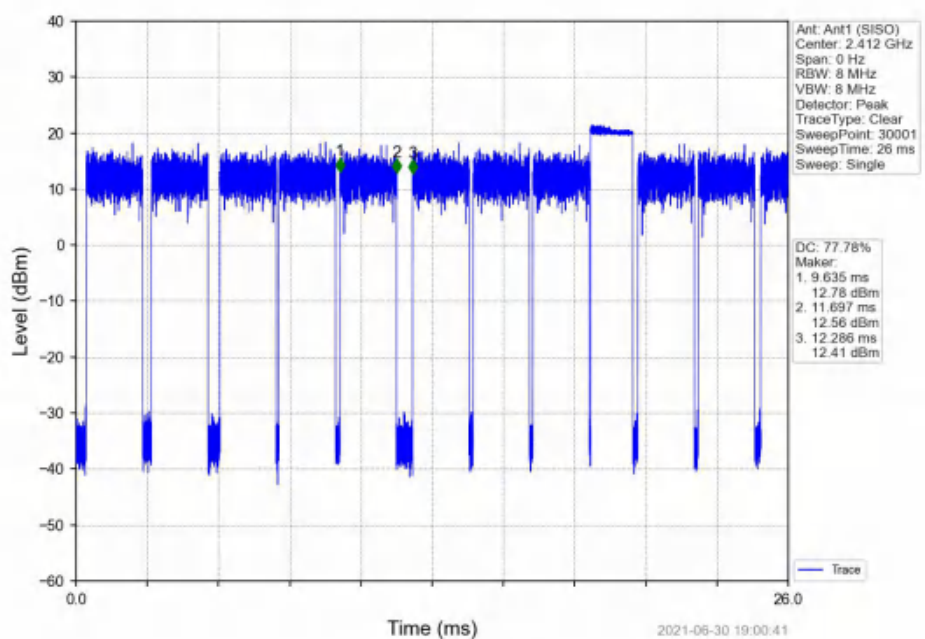
802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



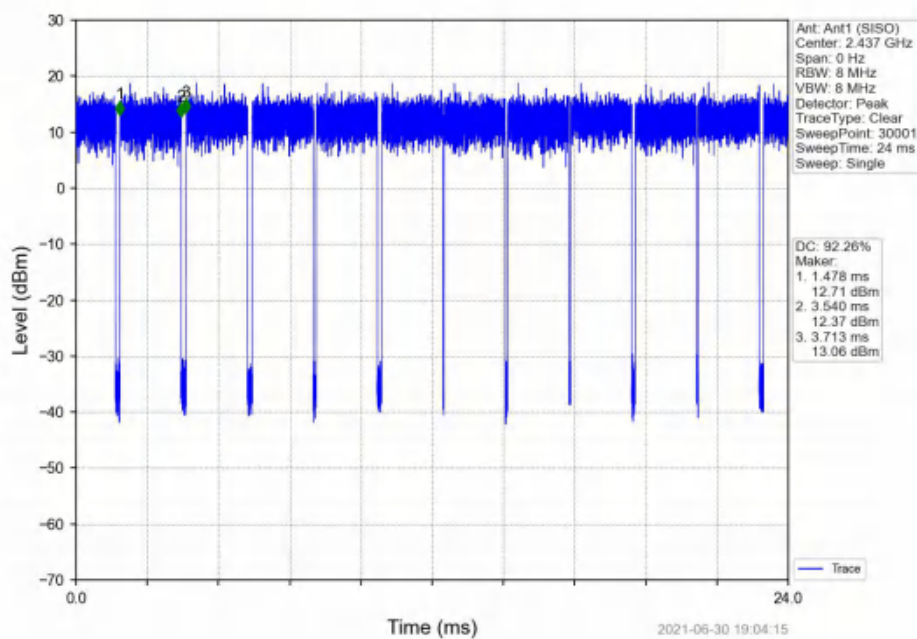
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



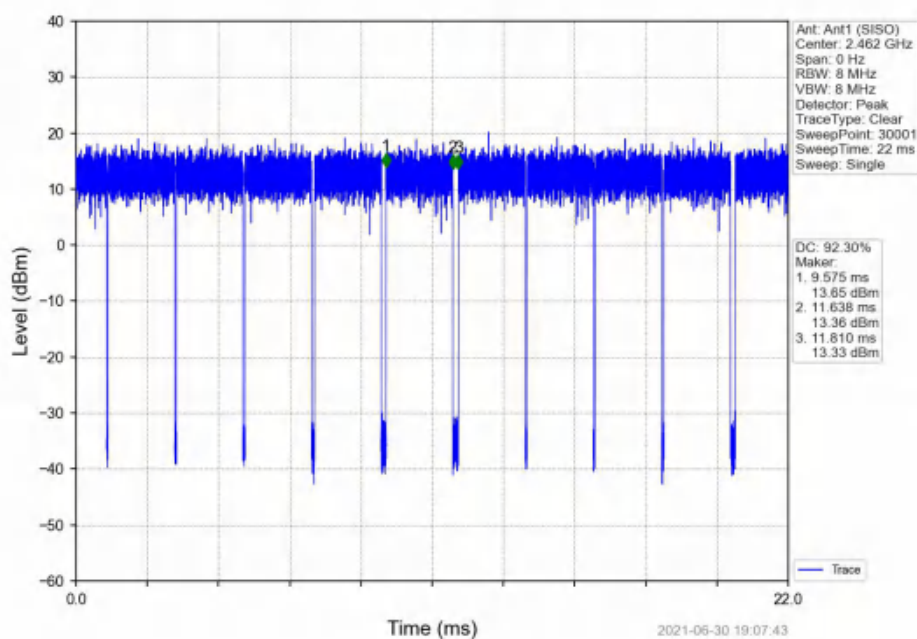
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



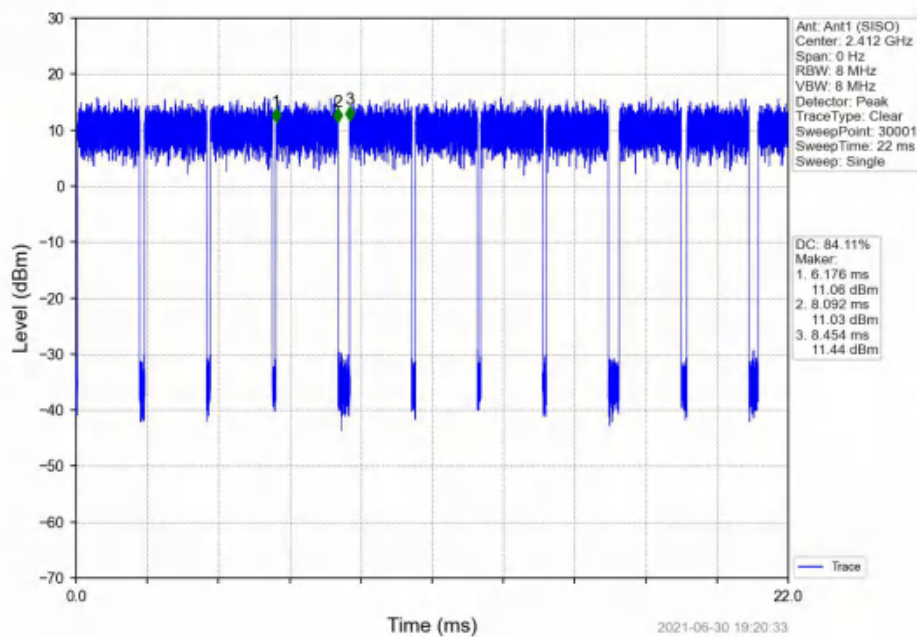
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



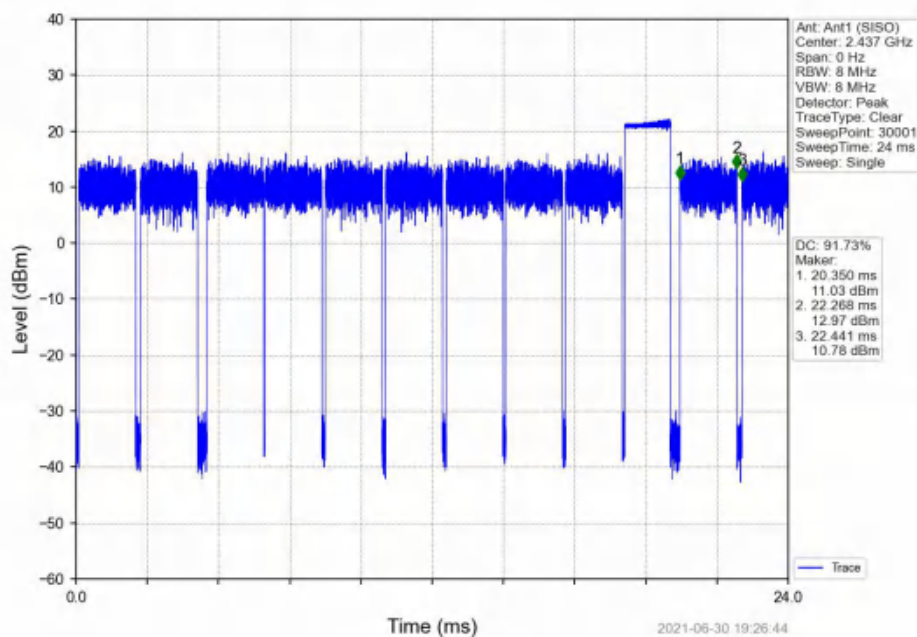
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



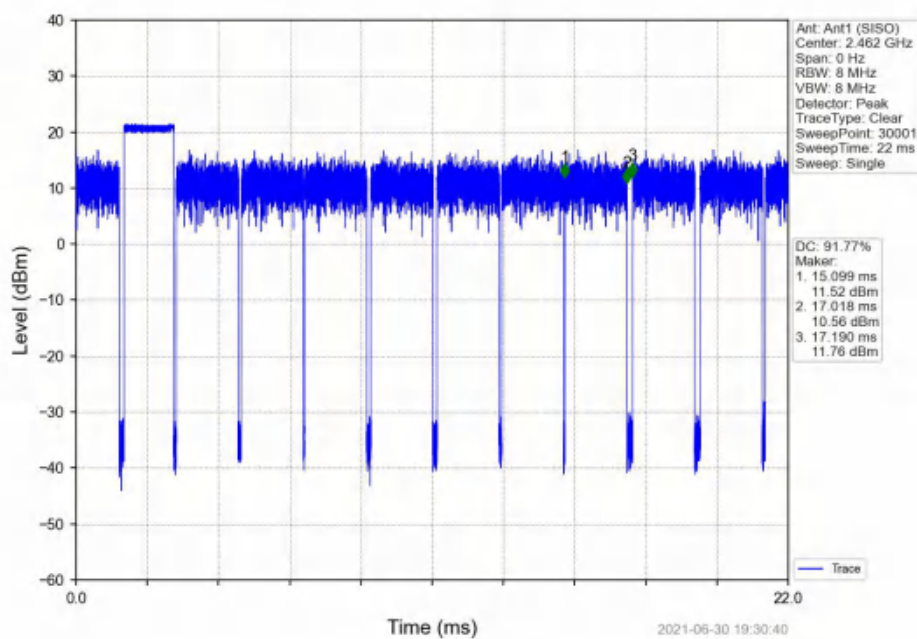
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

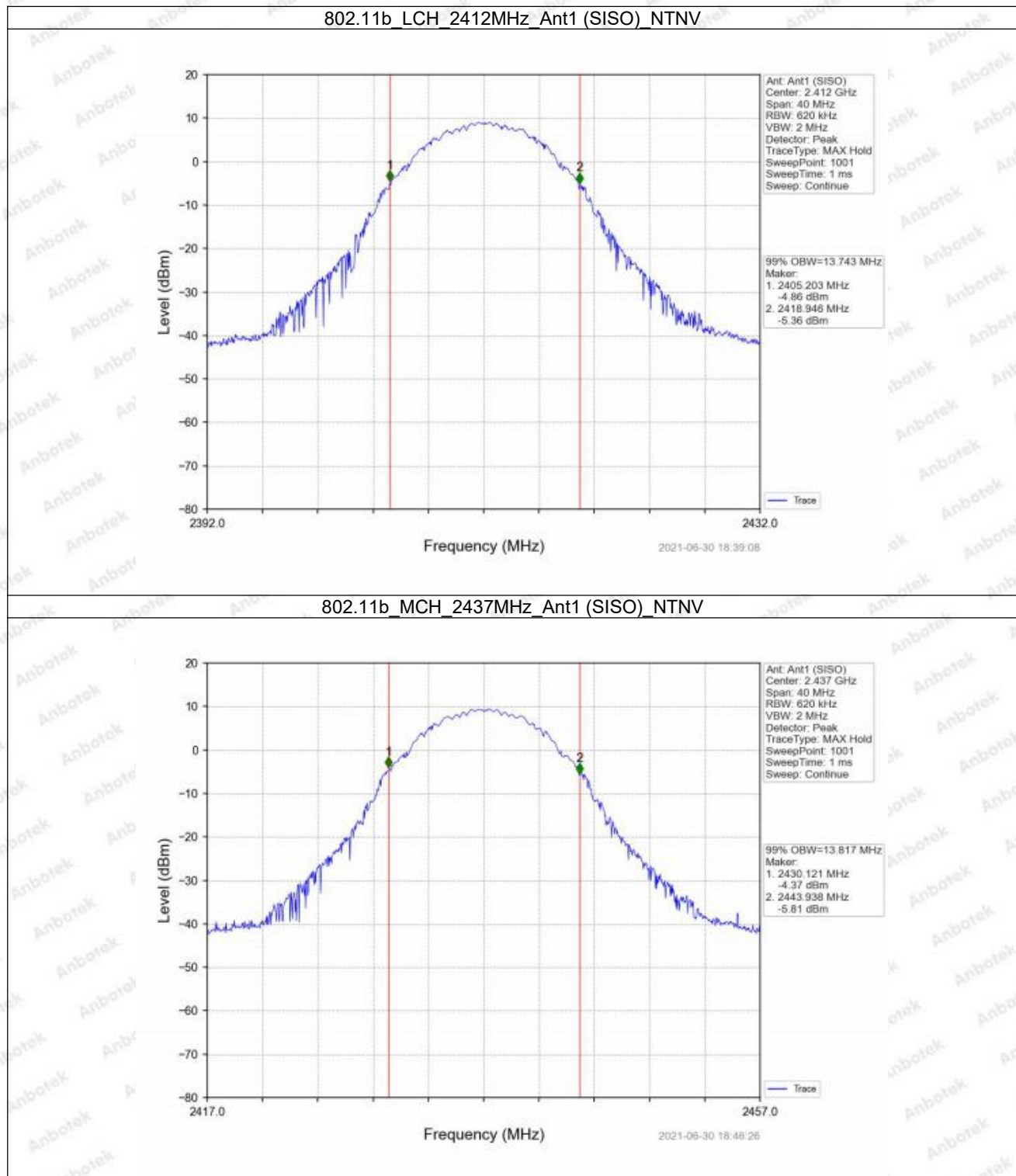
2.1 OBW

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



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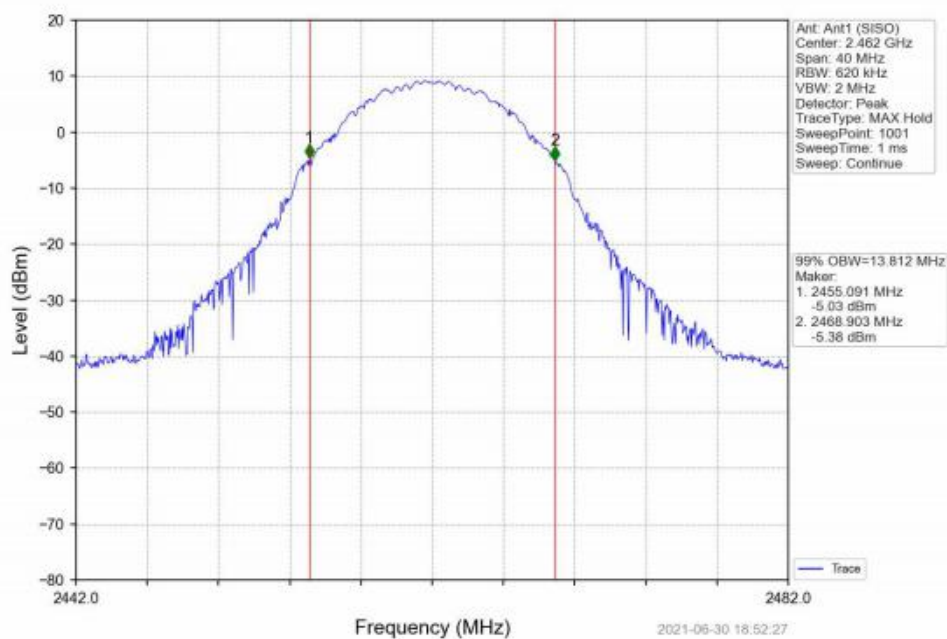


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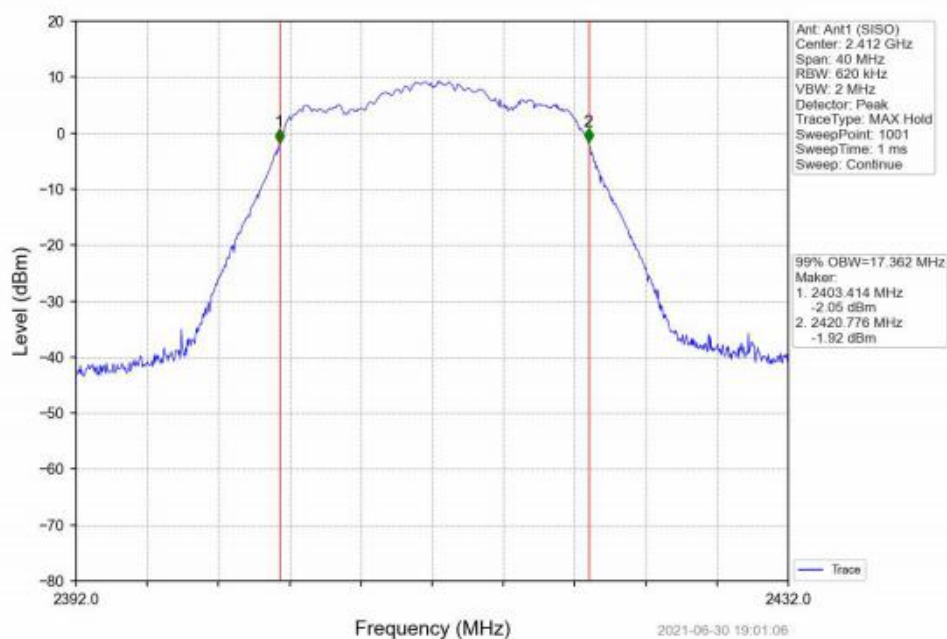
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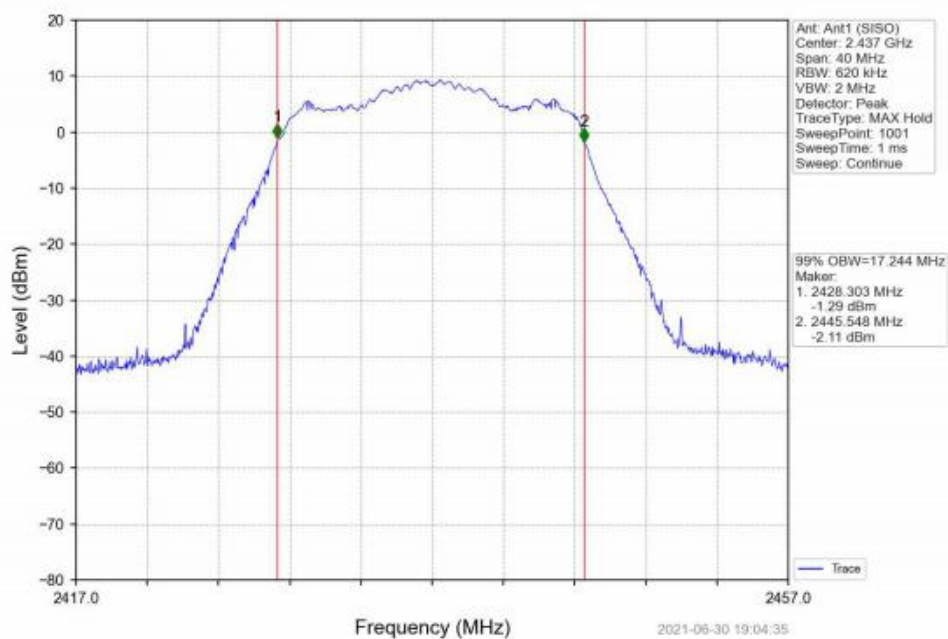
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



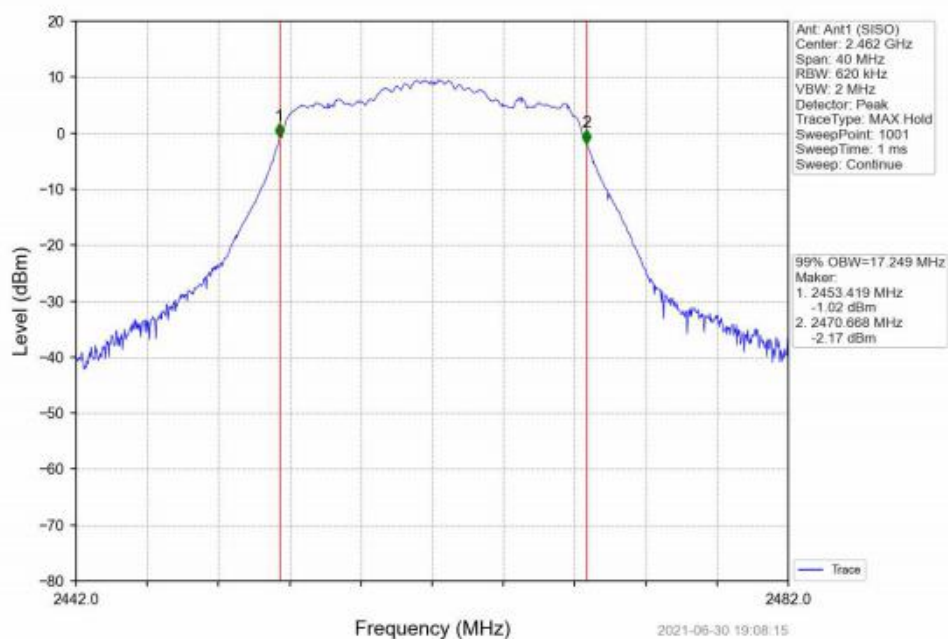
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



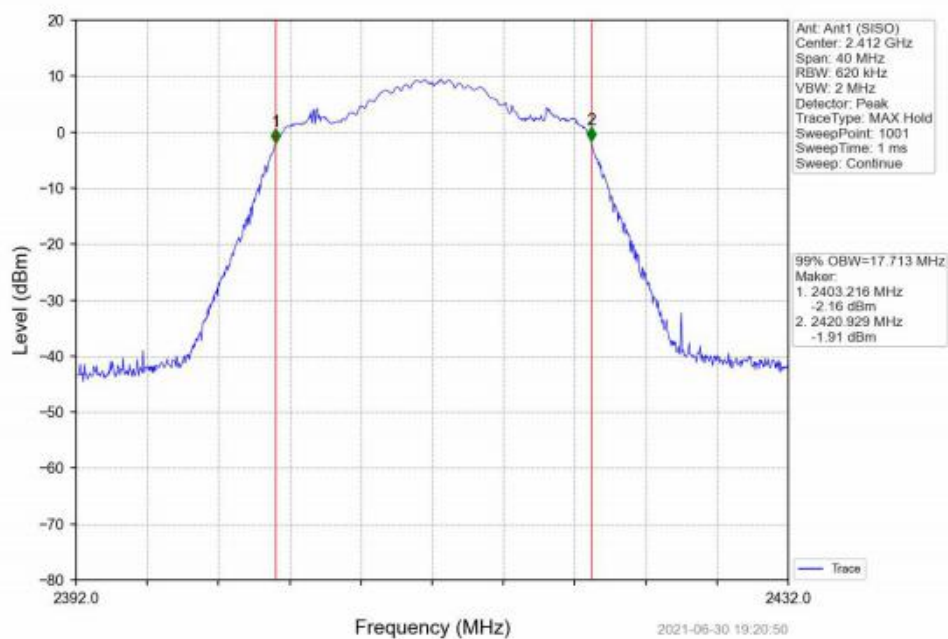
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



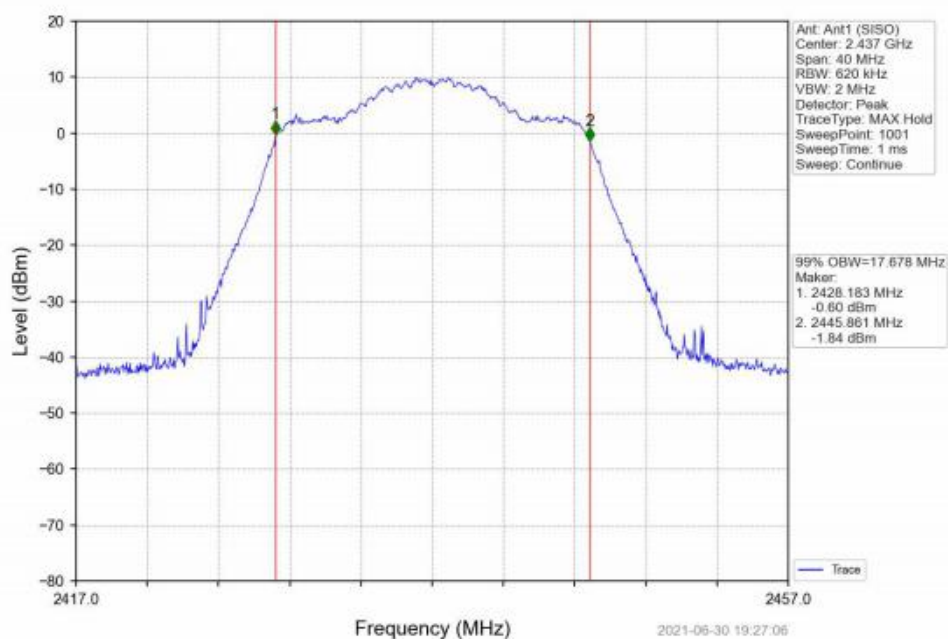
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

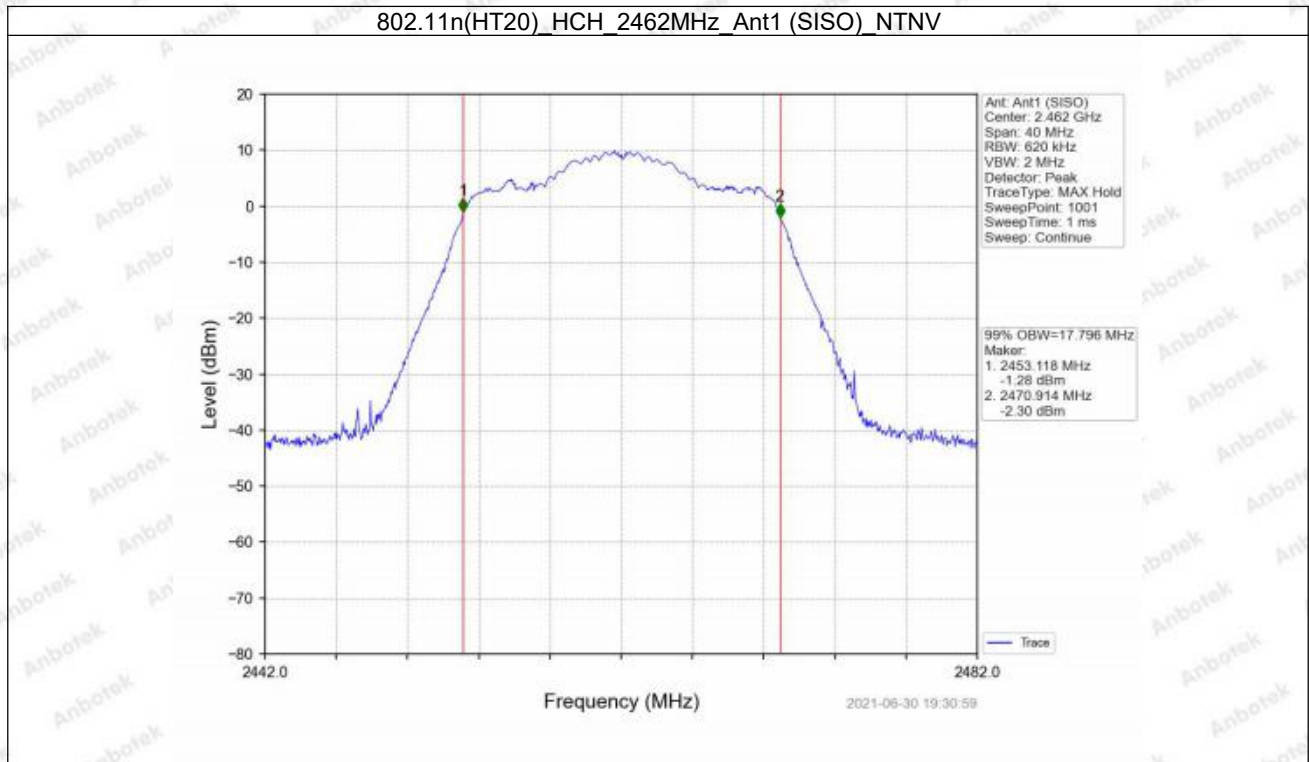


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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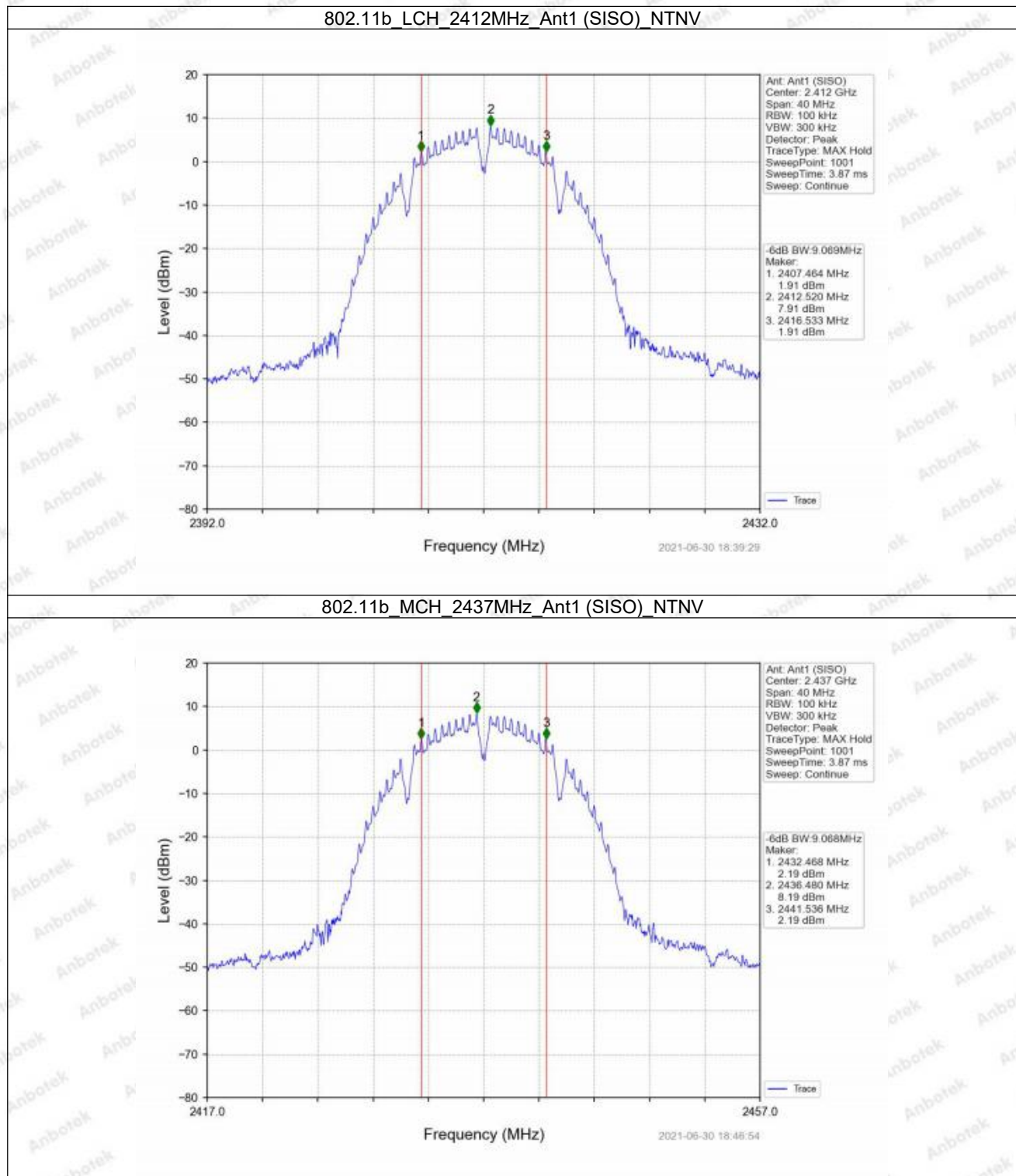
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2.2 6dB BW

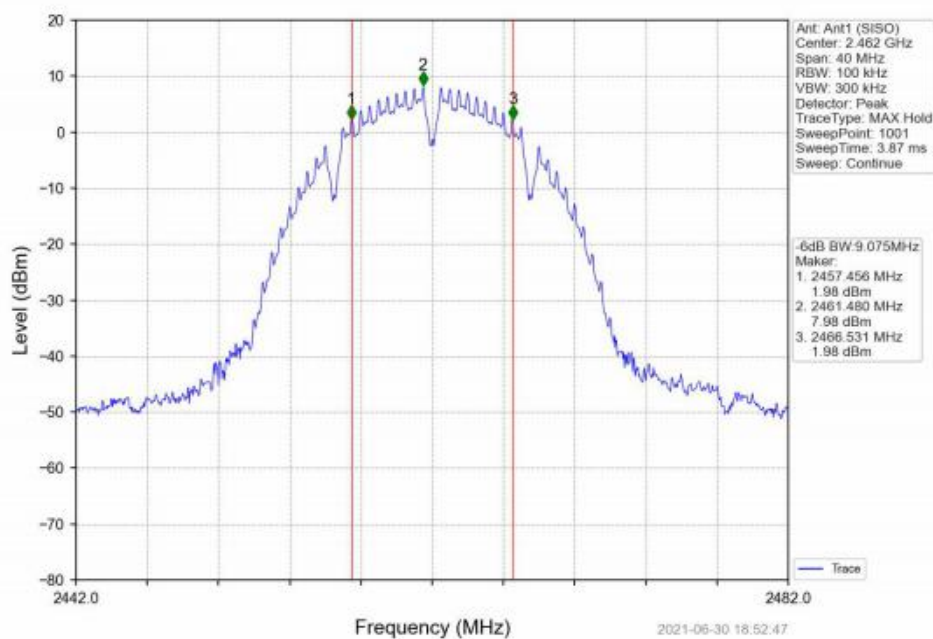
2.2.1 Test Result

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

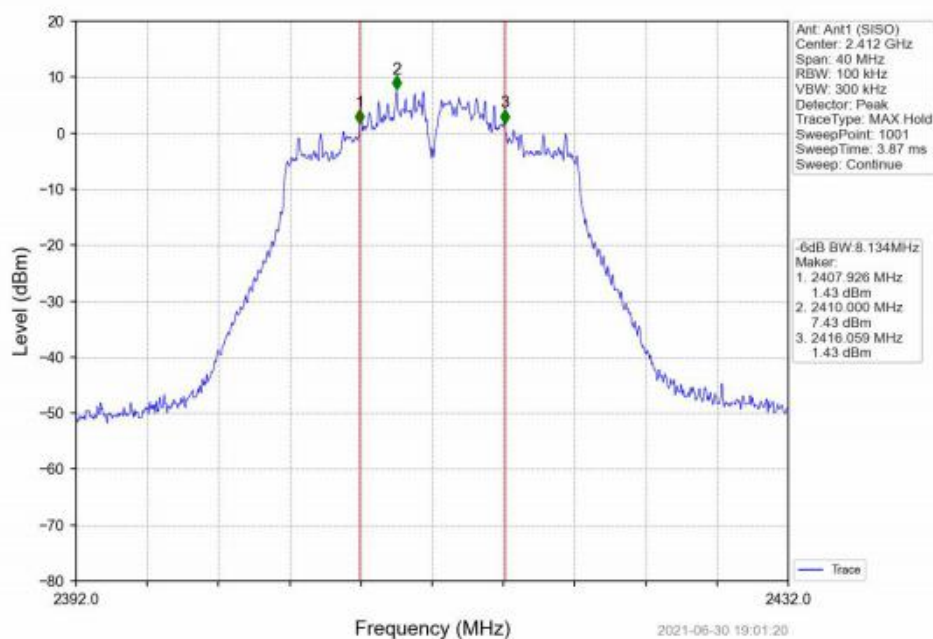
2.2.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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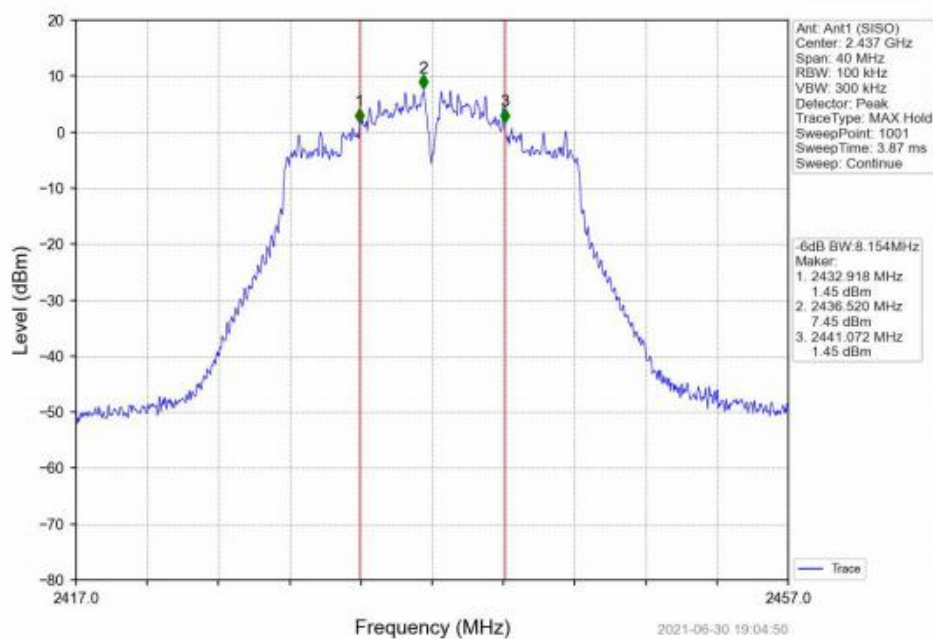


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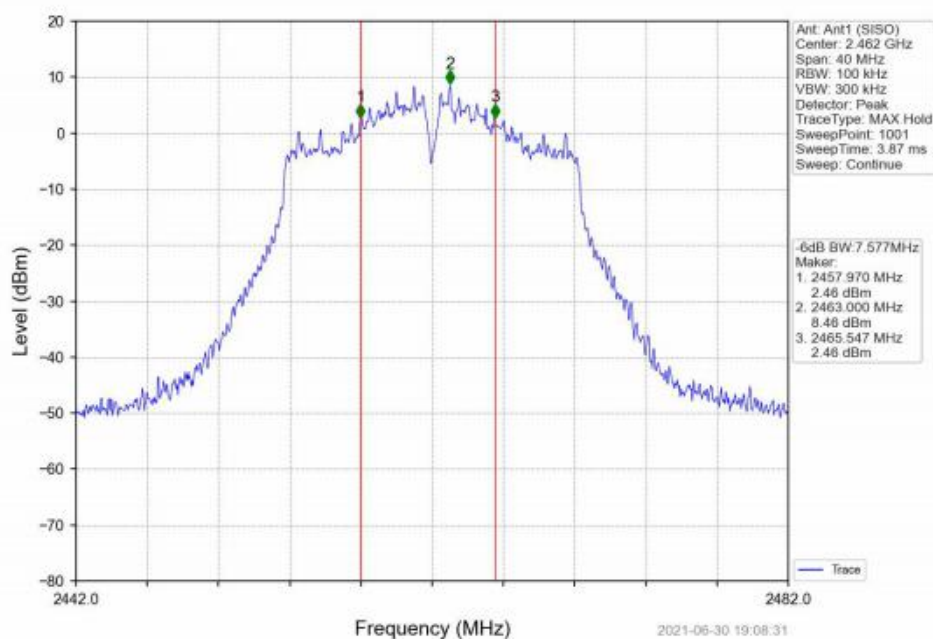
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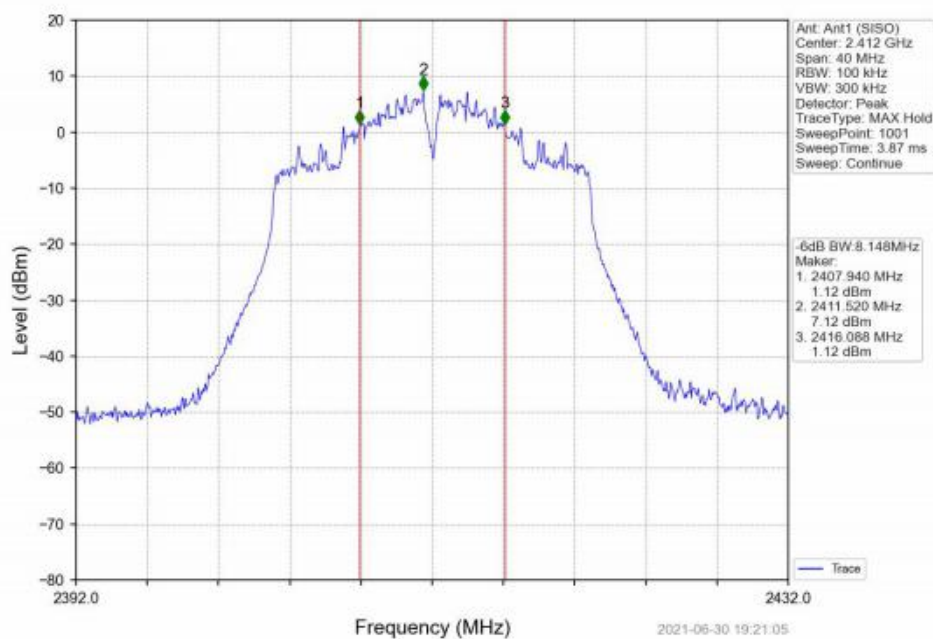
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



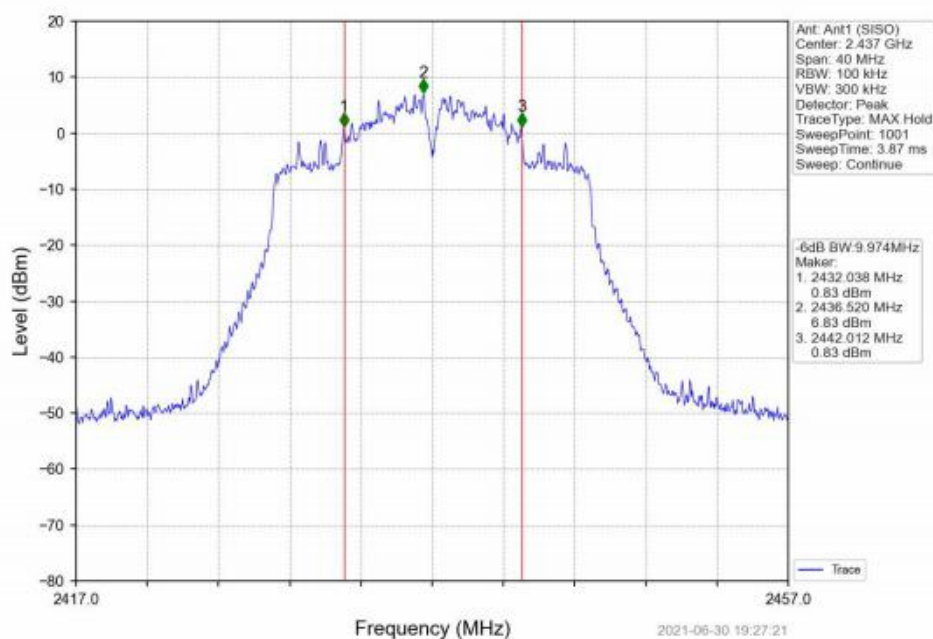
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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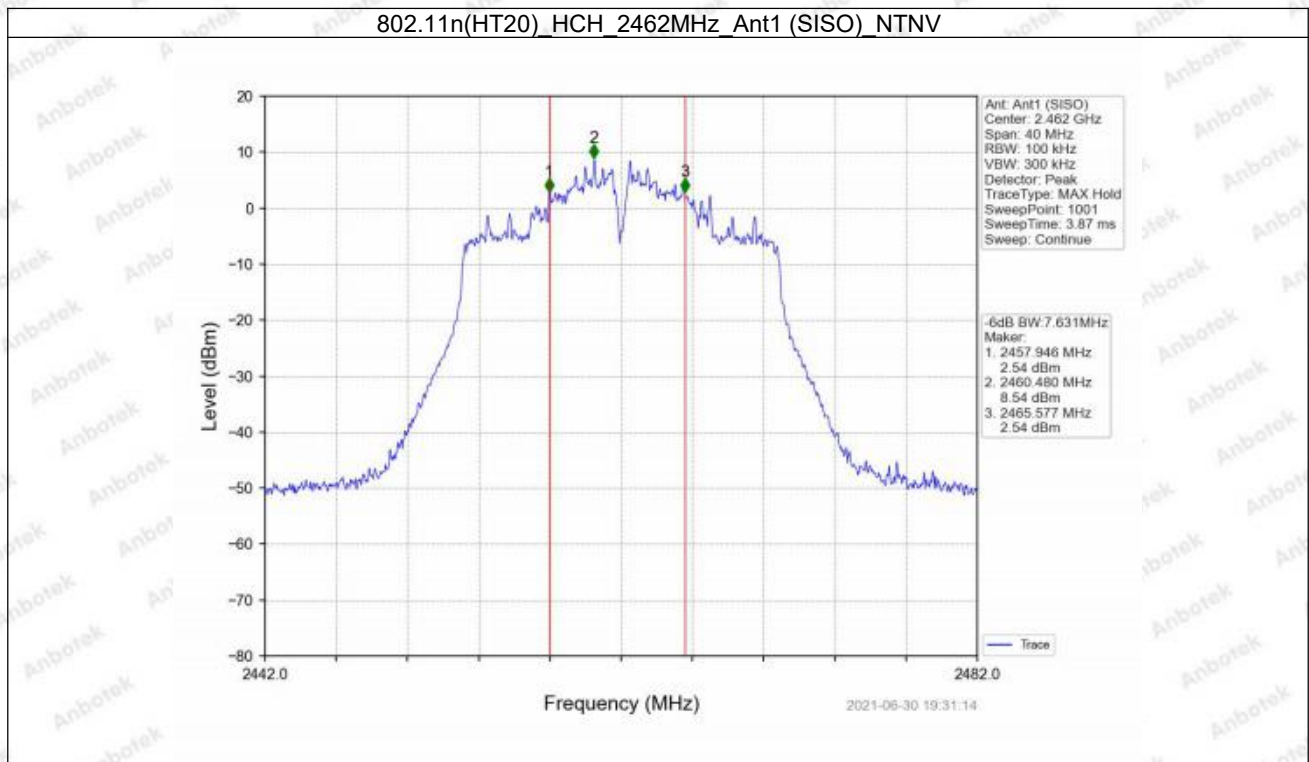
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3. Maximum Conducted Output Power

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	/	/	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

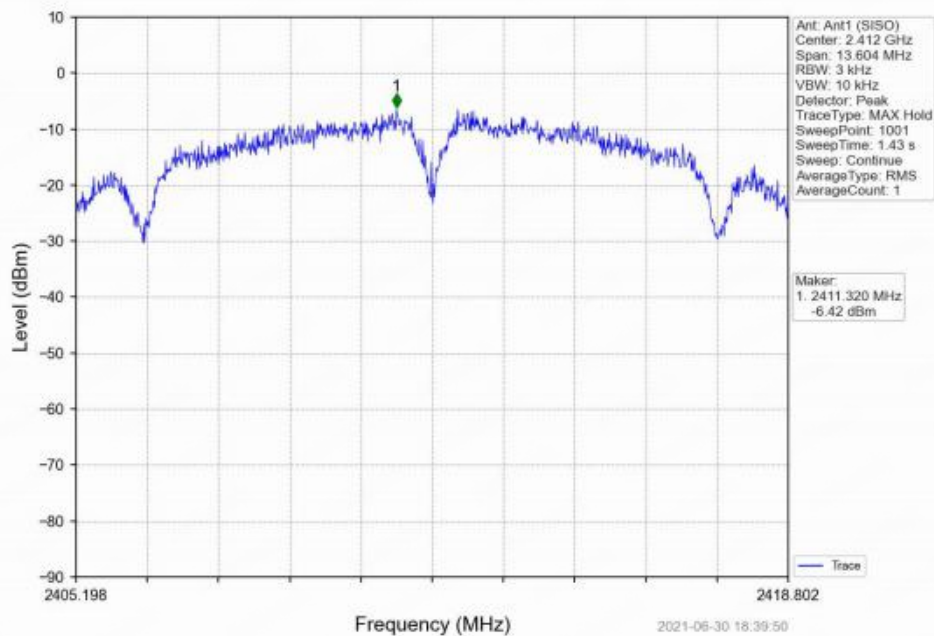
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					Ant1		
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

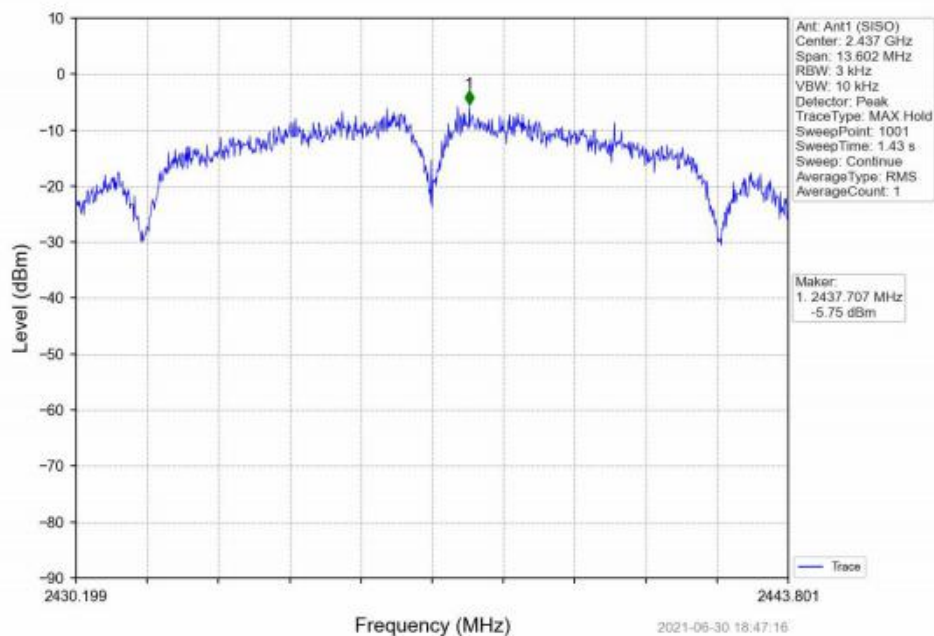
Note1: Antenna Gain: 1dBi;

4.1.2 Test Graph

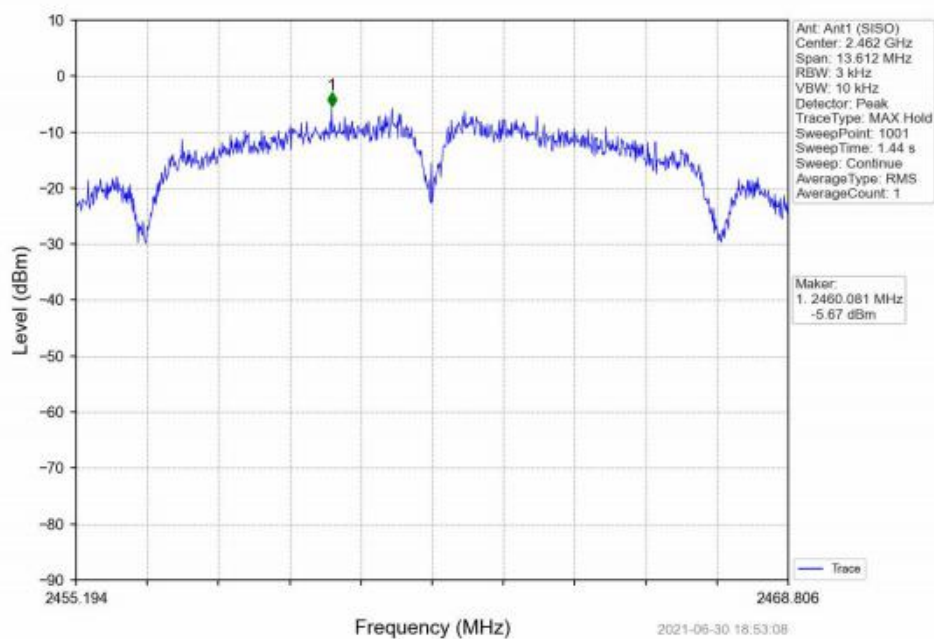
802.11b LCH 2412MHz_Ant1 (SISO) NTN



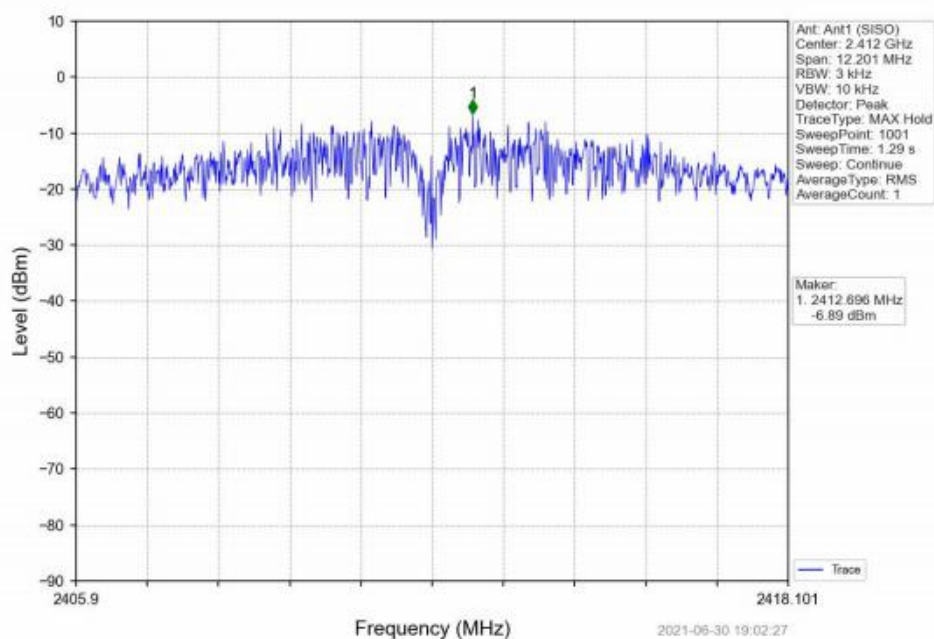
802.11b MCH 2437MHz_Ant1 (SISO) NTN



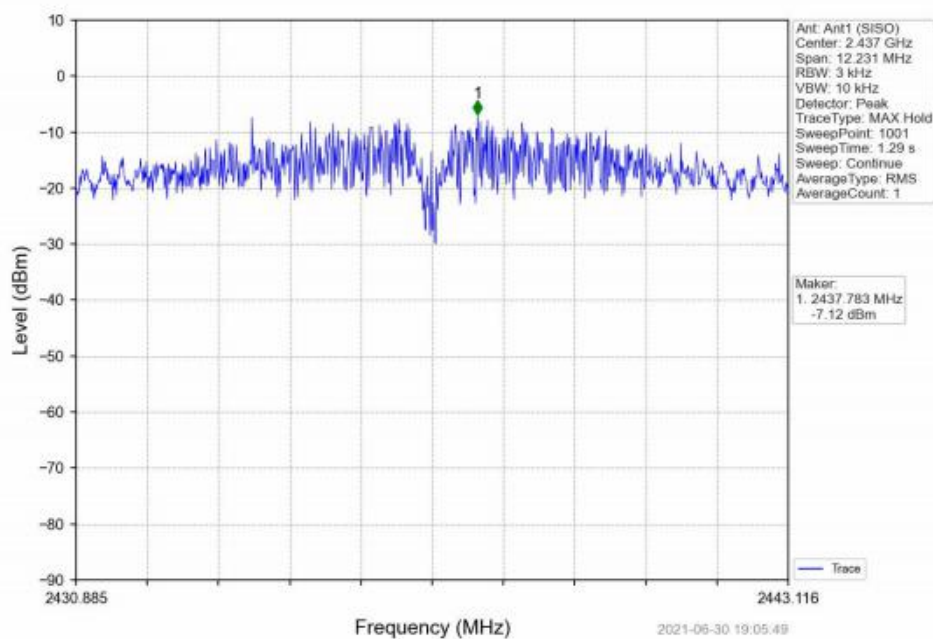
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



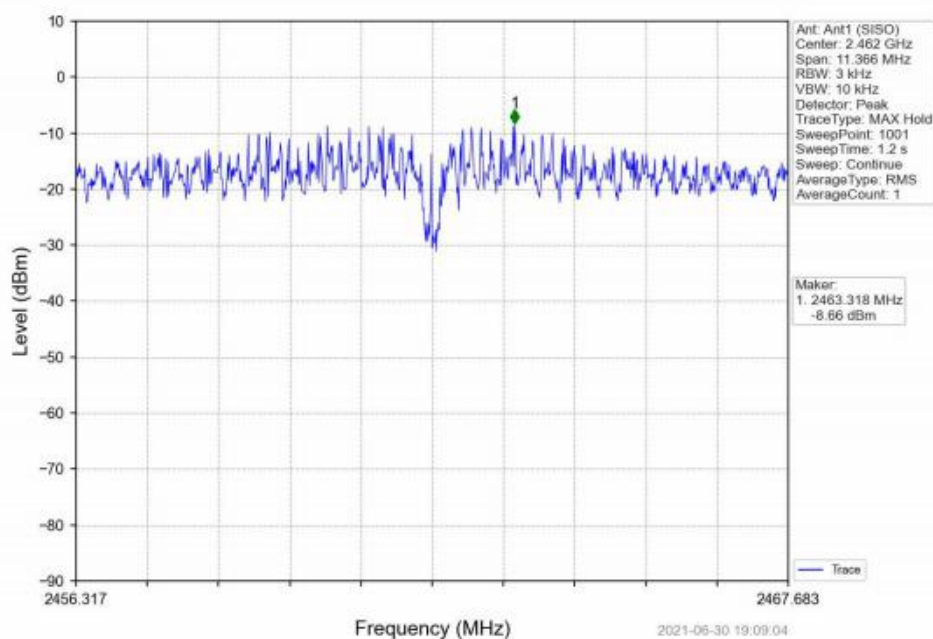
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



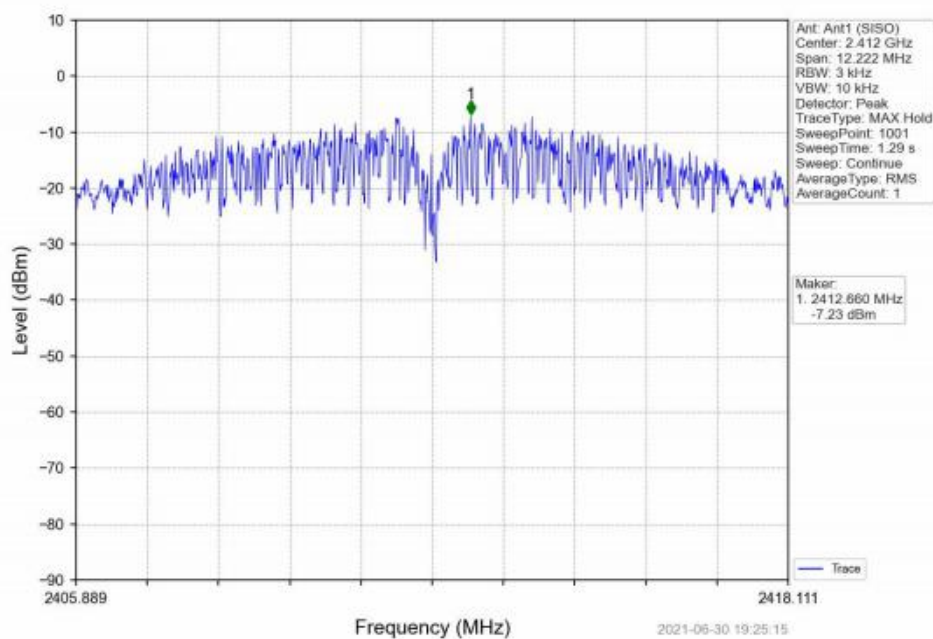
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



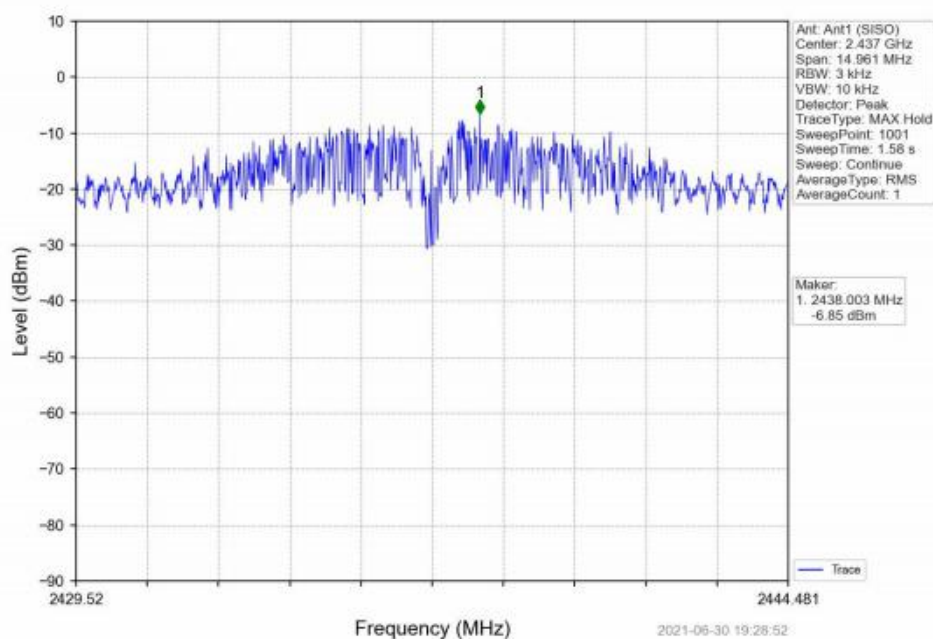
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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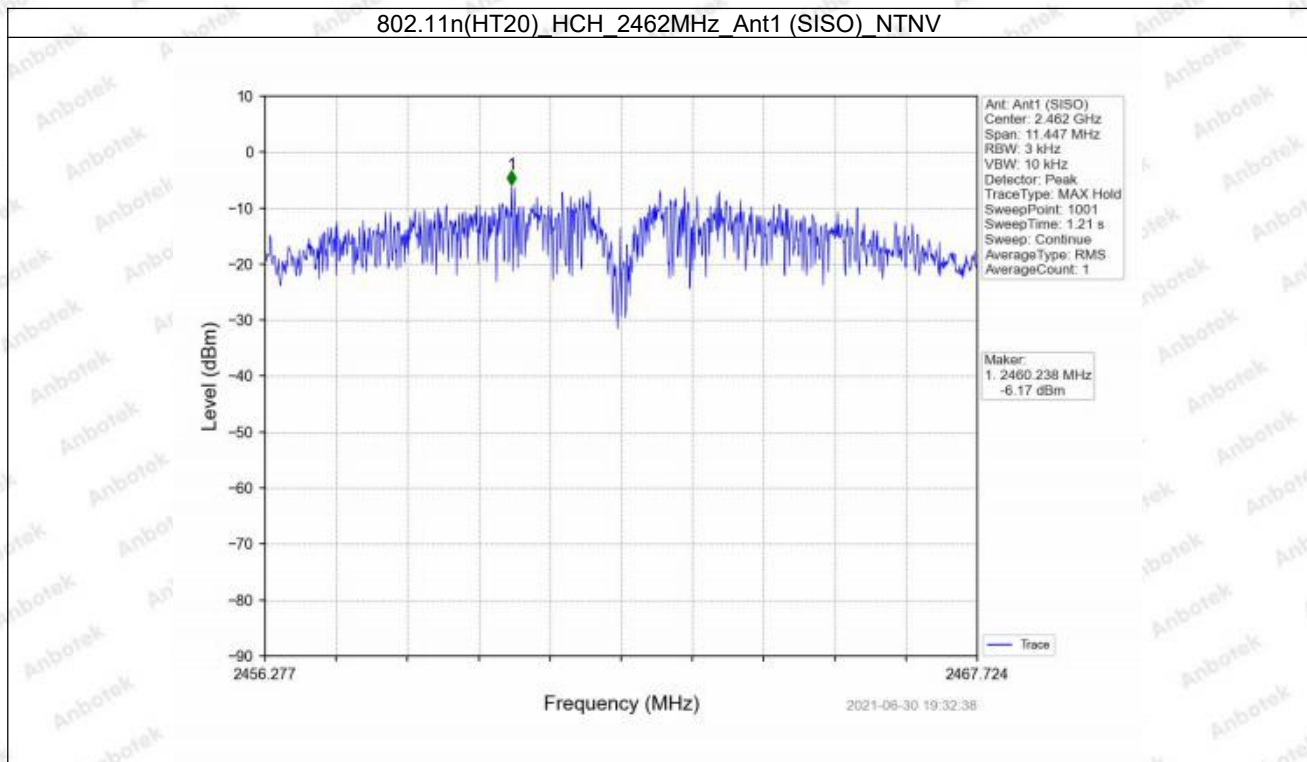
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

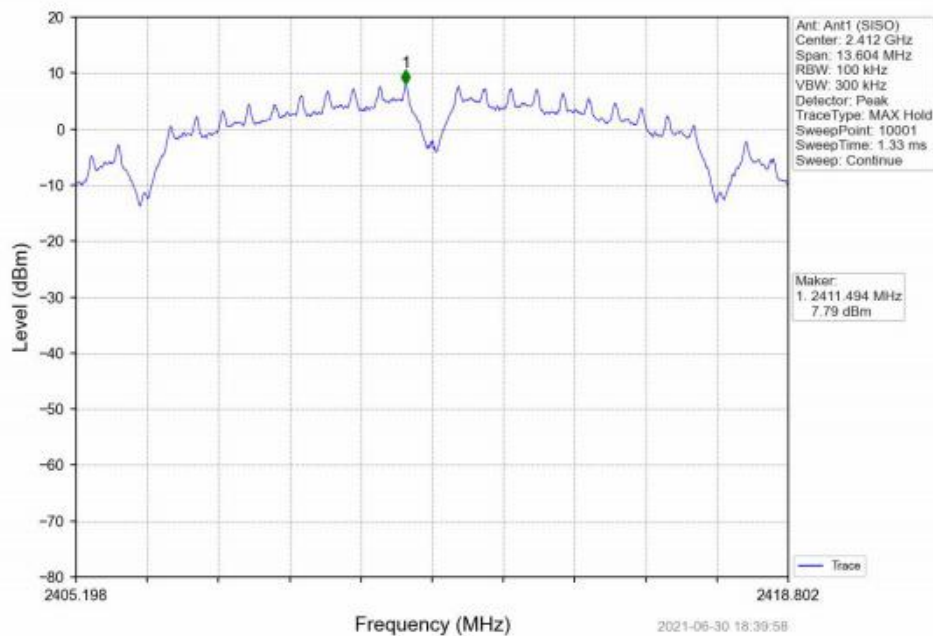
5.1.1 Test Result

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	/	/

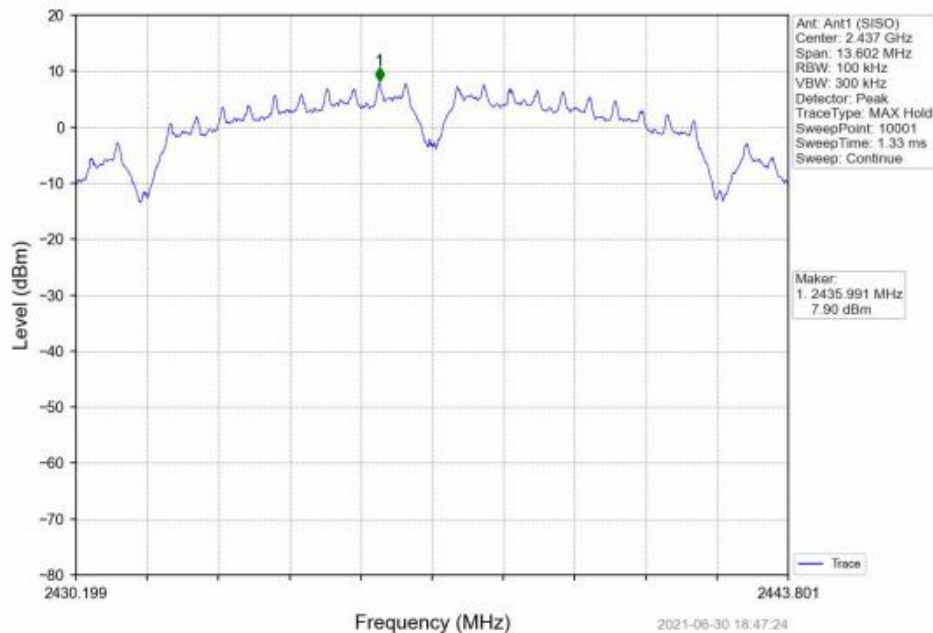
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph

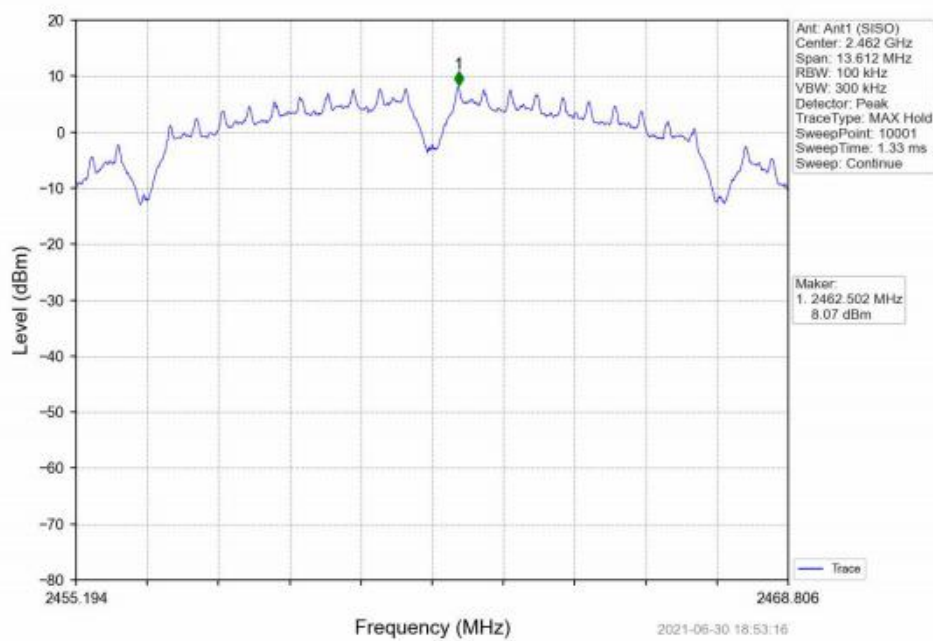
802.11b LCH 2412MHz_Ant1 (SISO) NTN



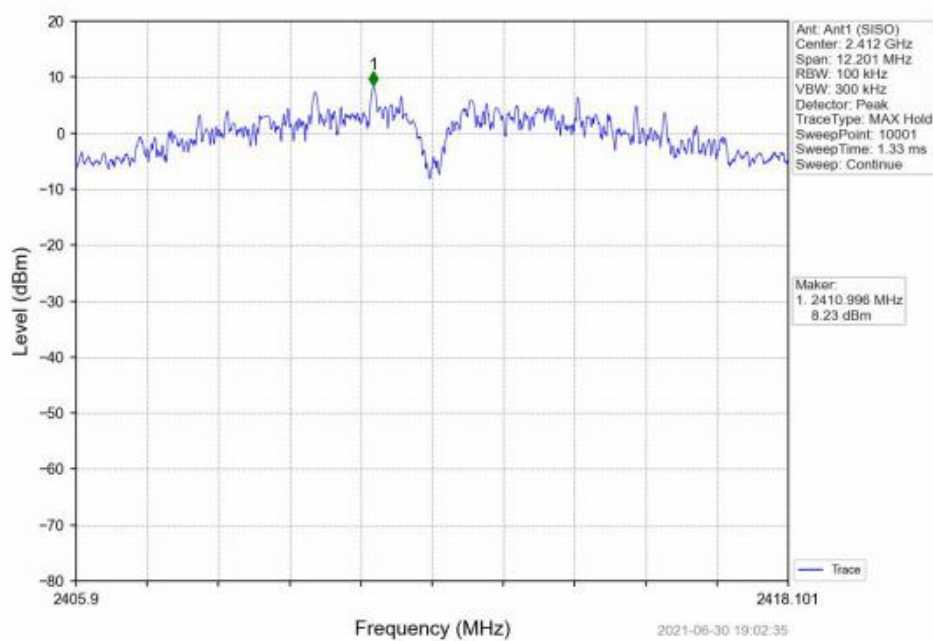
802.11b MCH 2437MHz_Ant1 (SISO) NTN



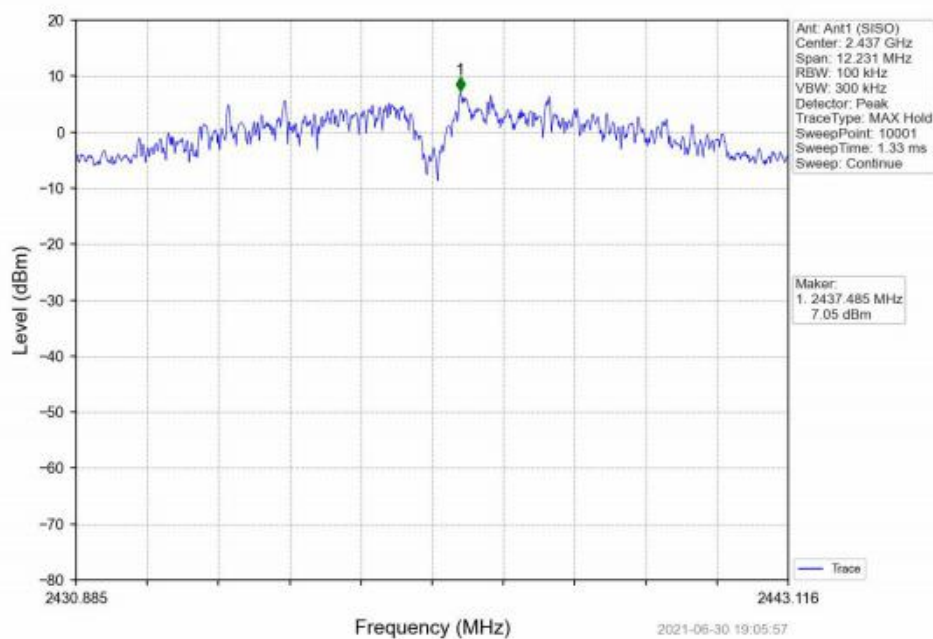
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



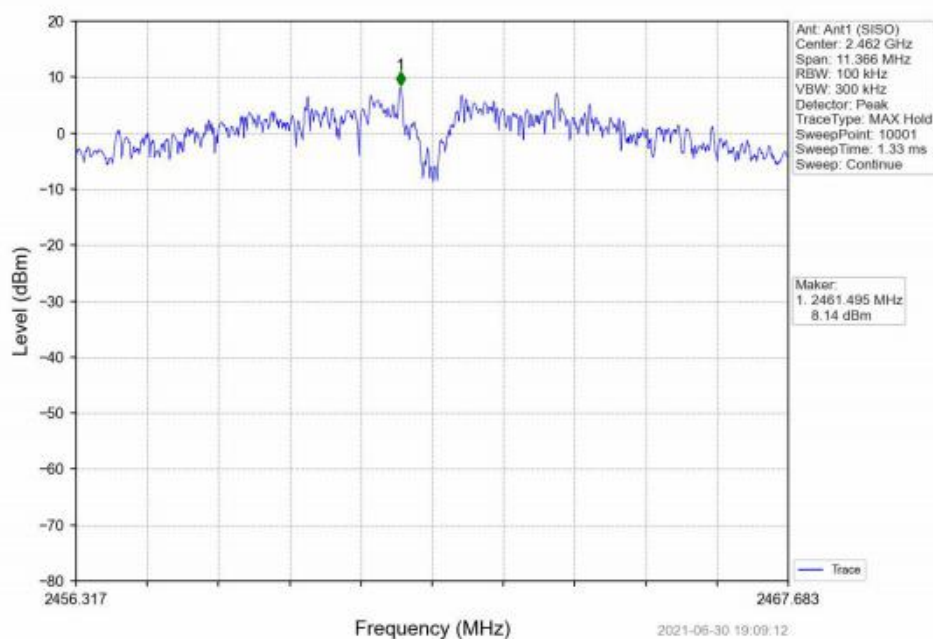
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



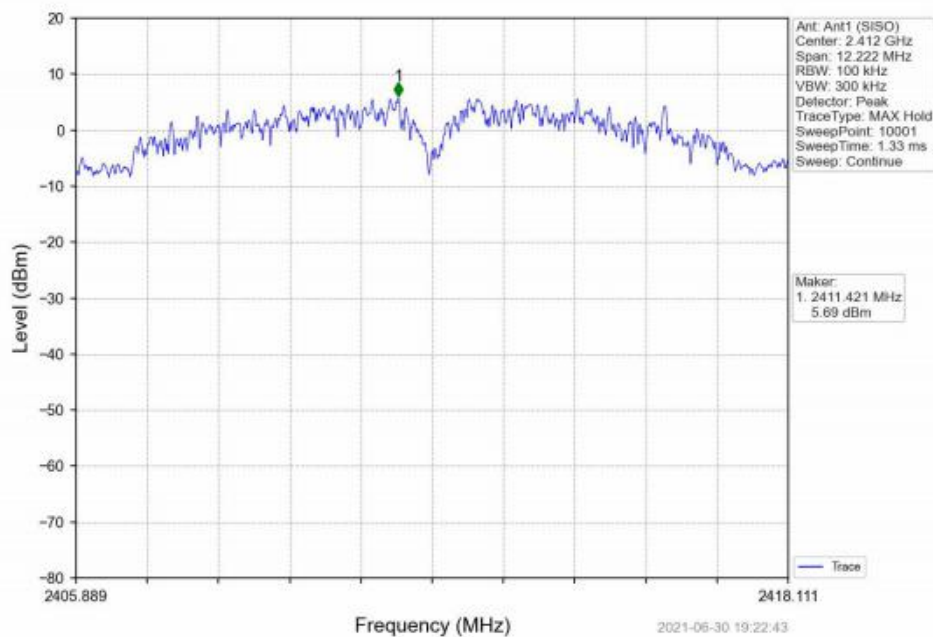
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



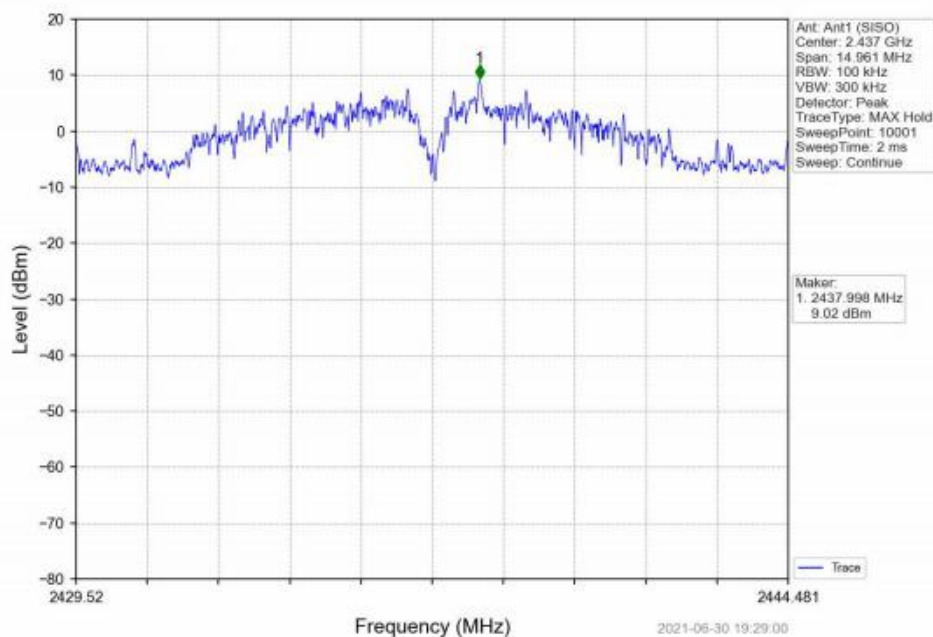
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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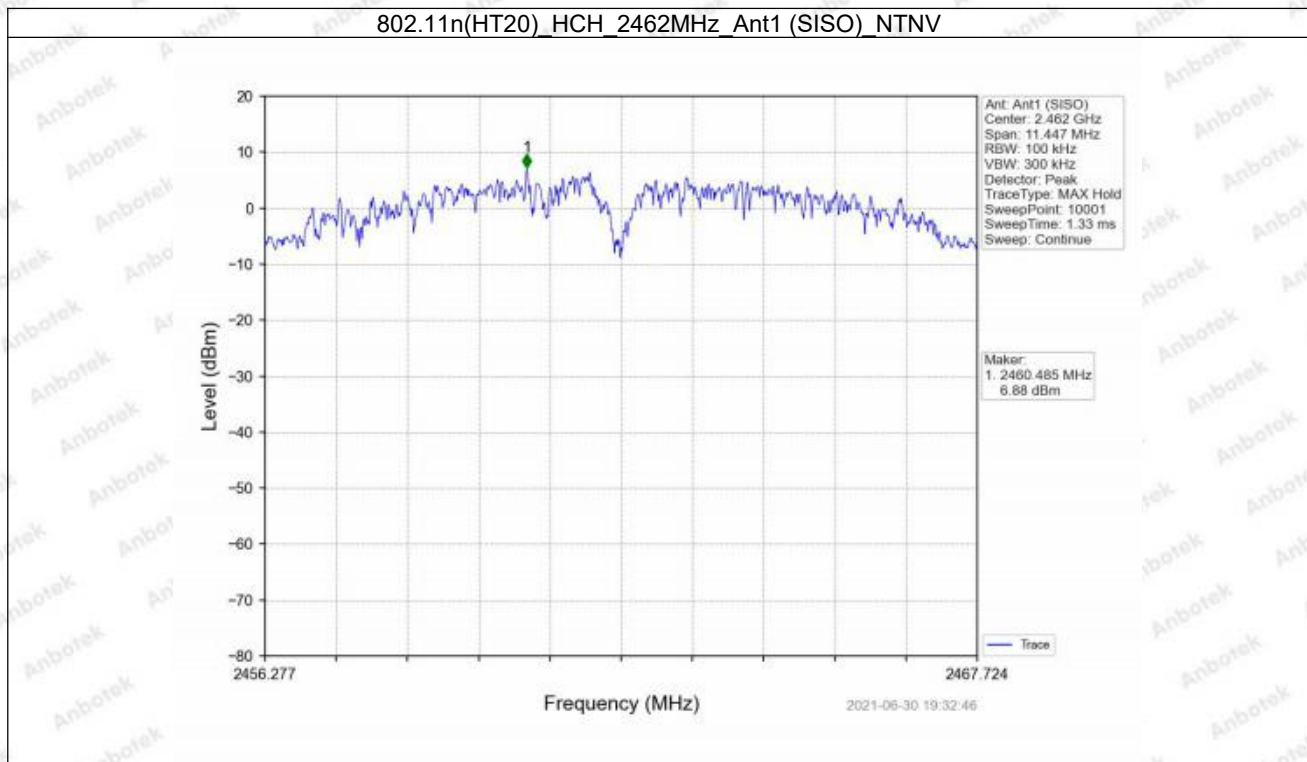
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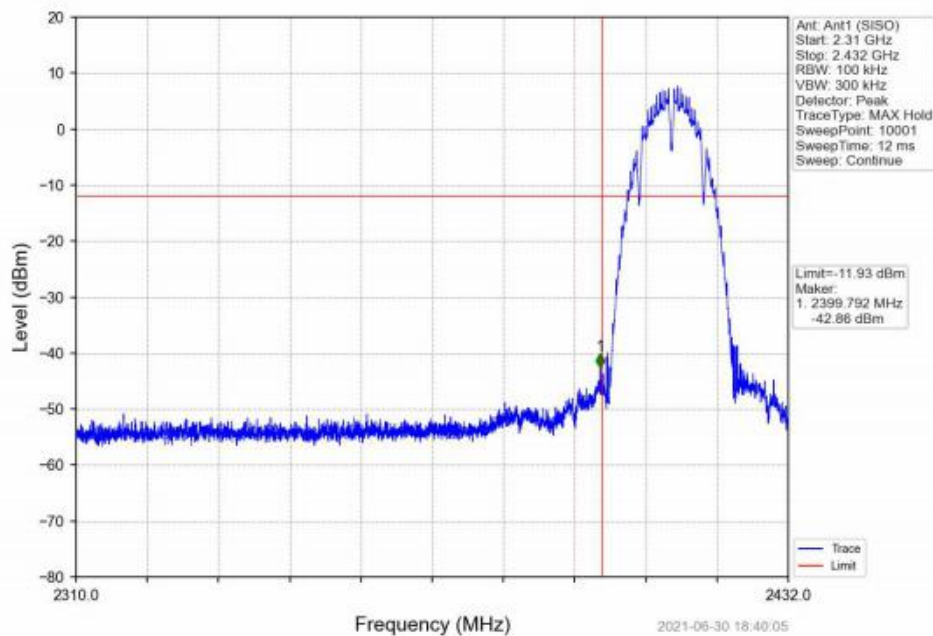
5.2 CSE

5.2.1 Test Result

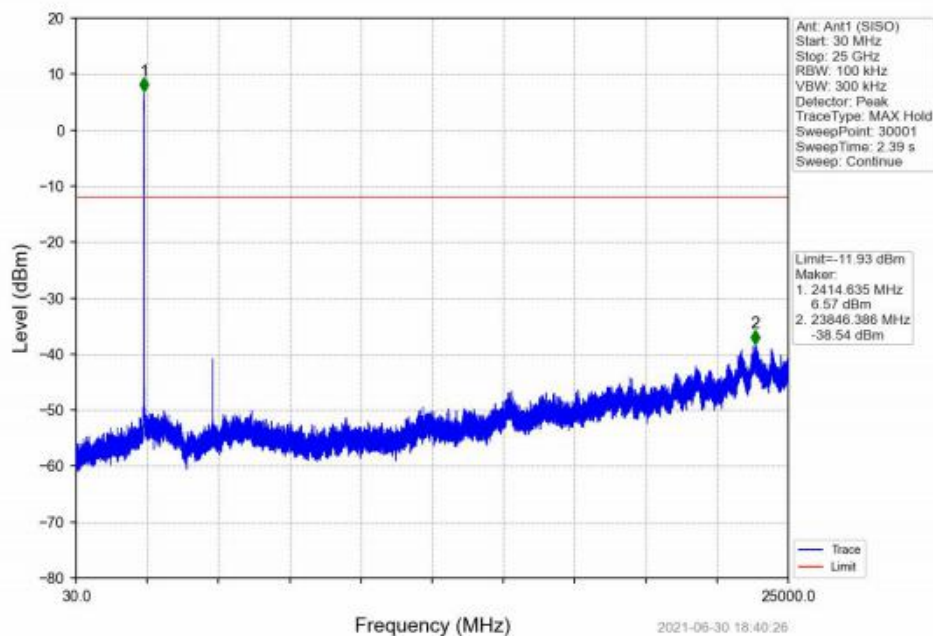
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
802.11g	SISO	2412	/	/	1	Refer 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

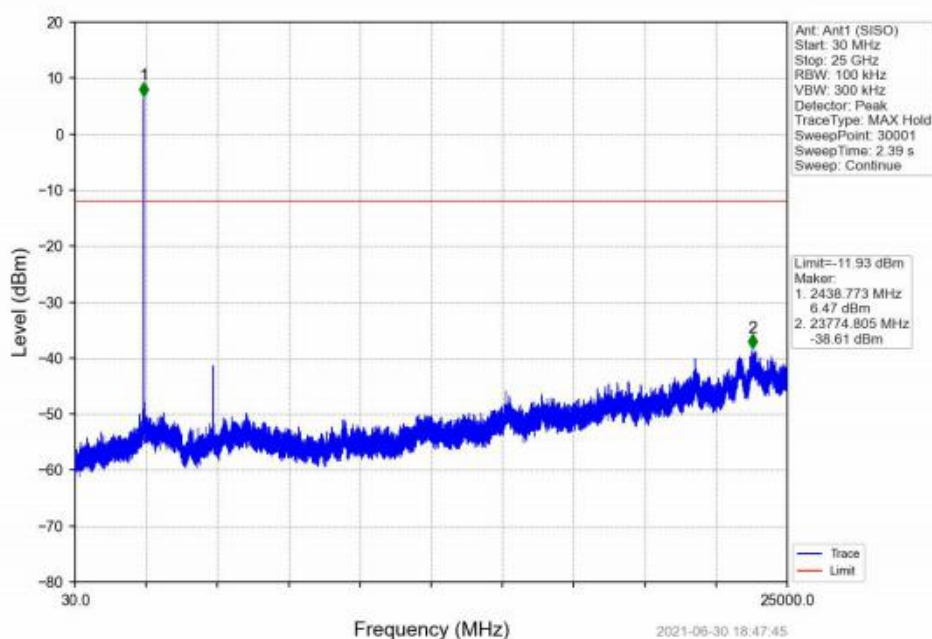
802.11b LCH 2412MHz_Ant1 (SISO) NTN



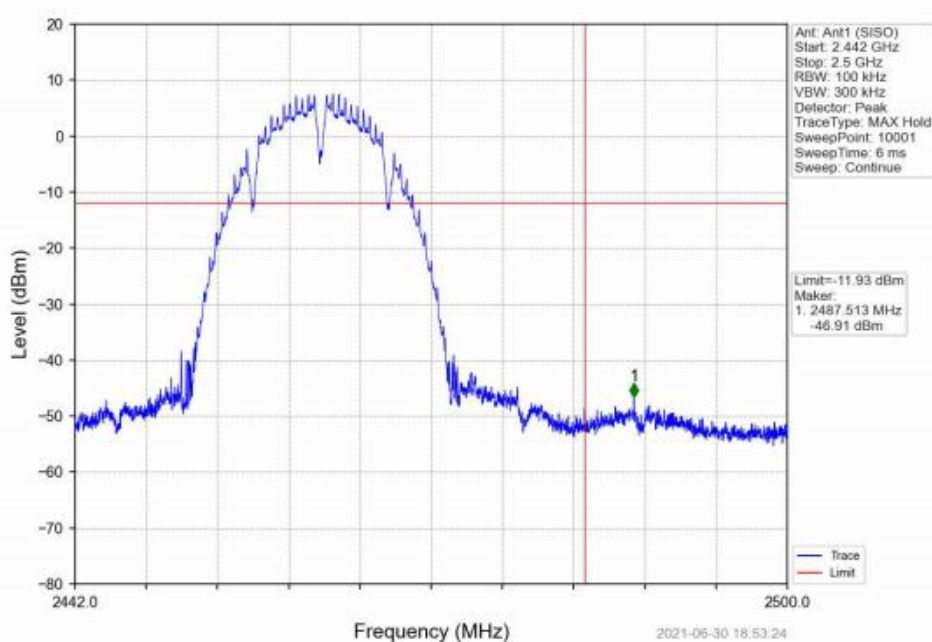
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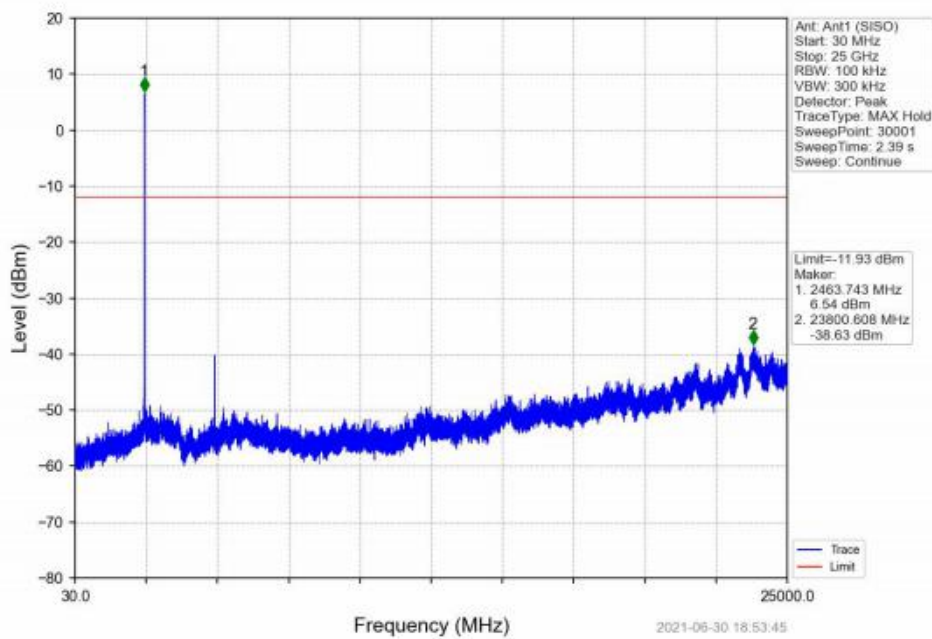
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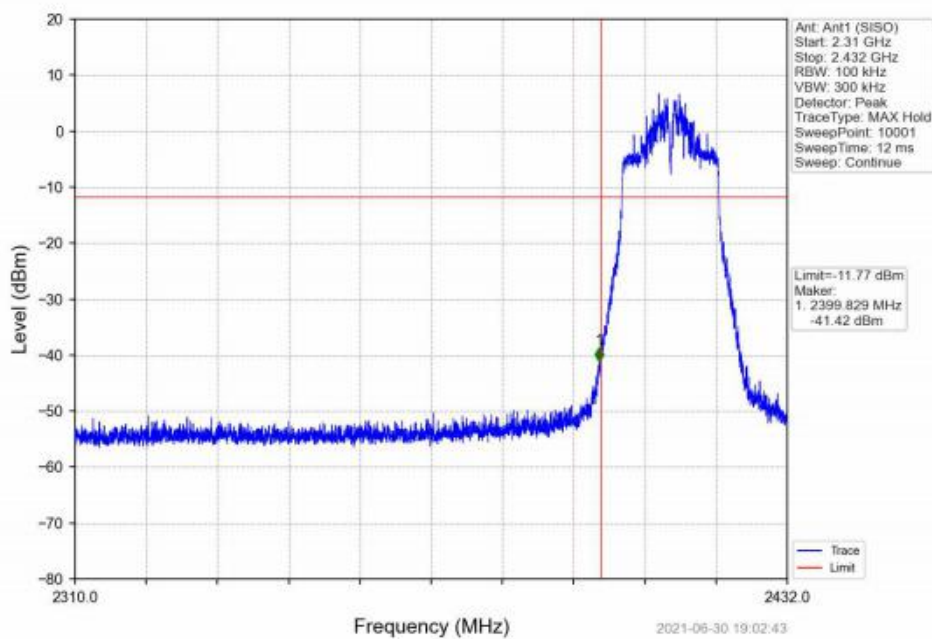
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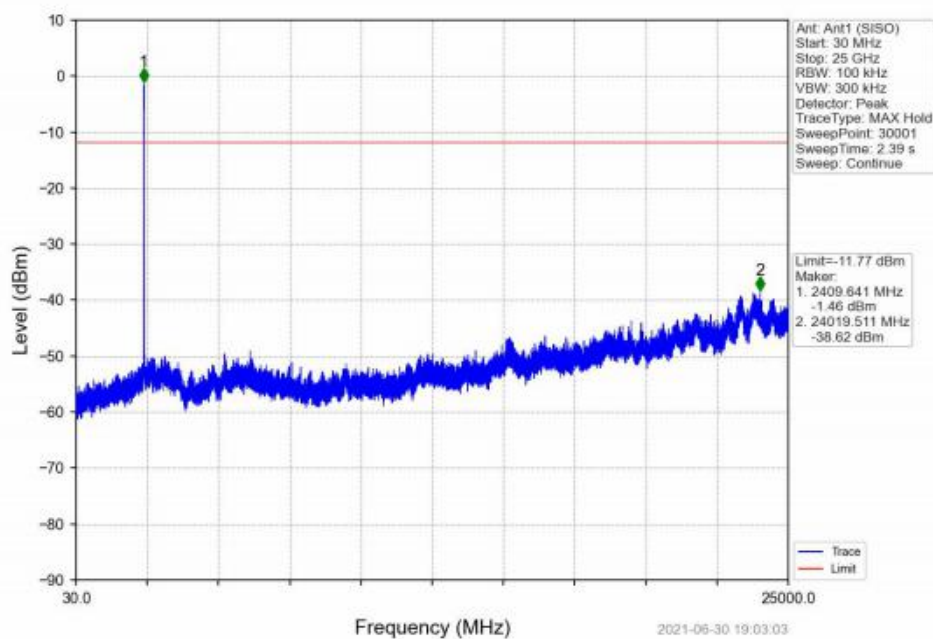
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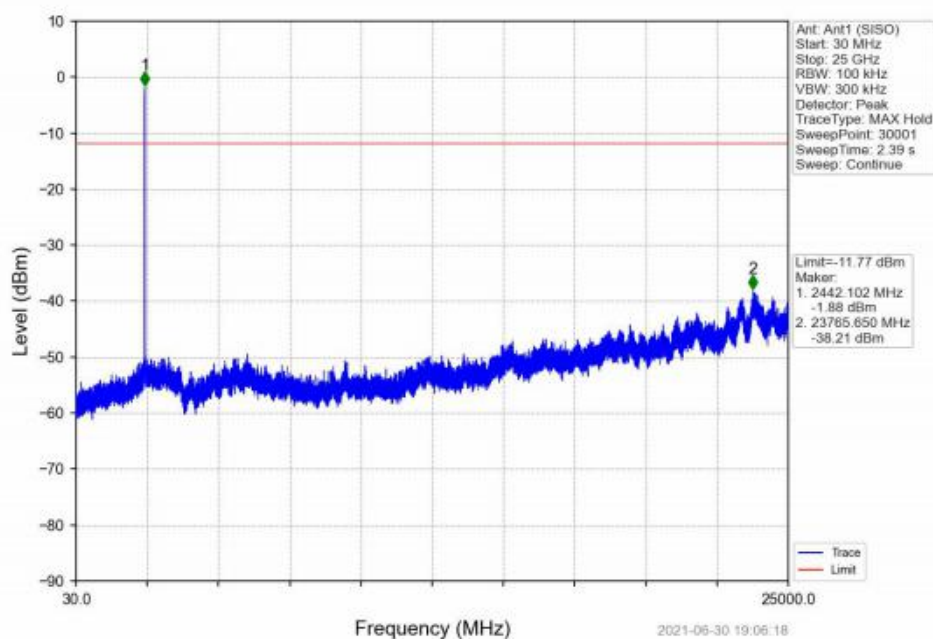
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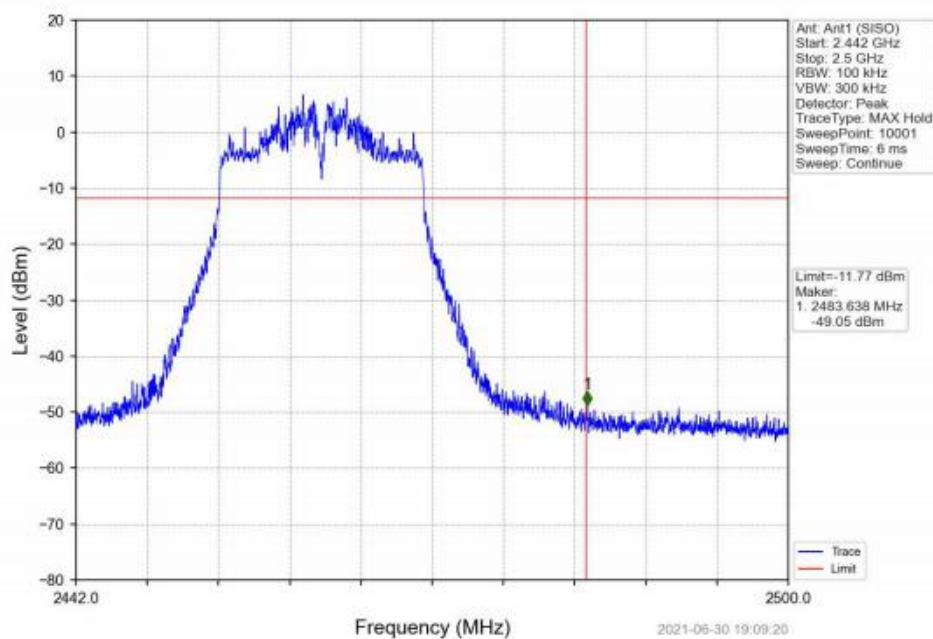
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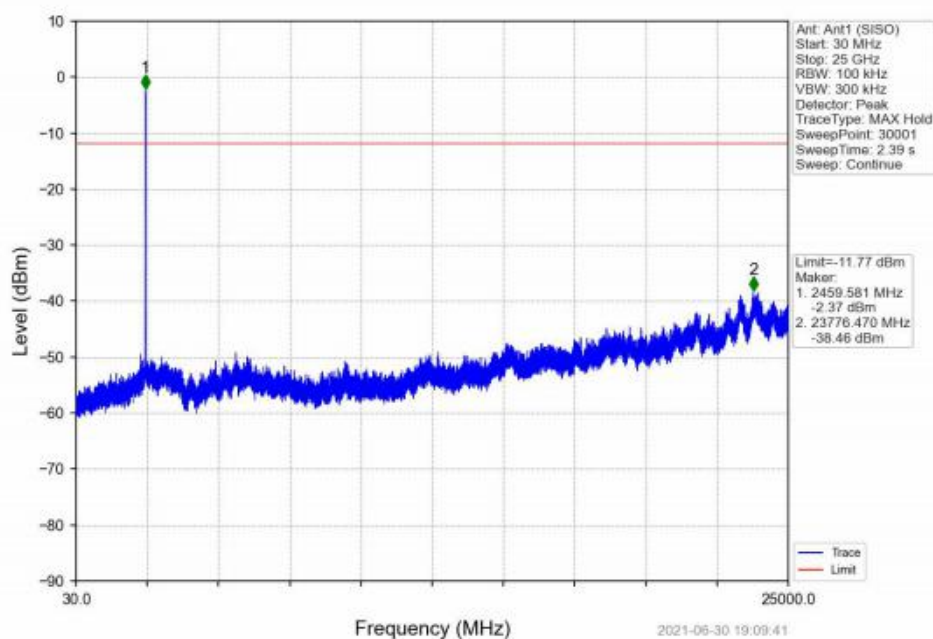
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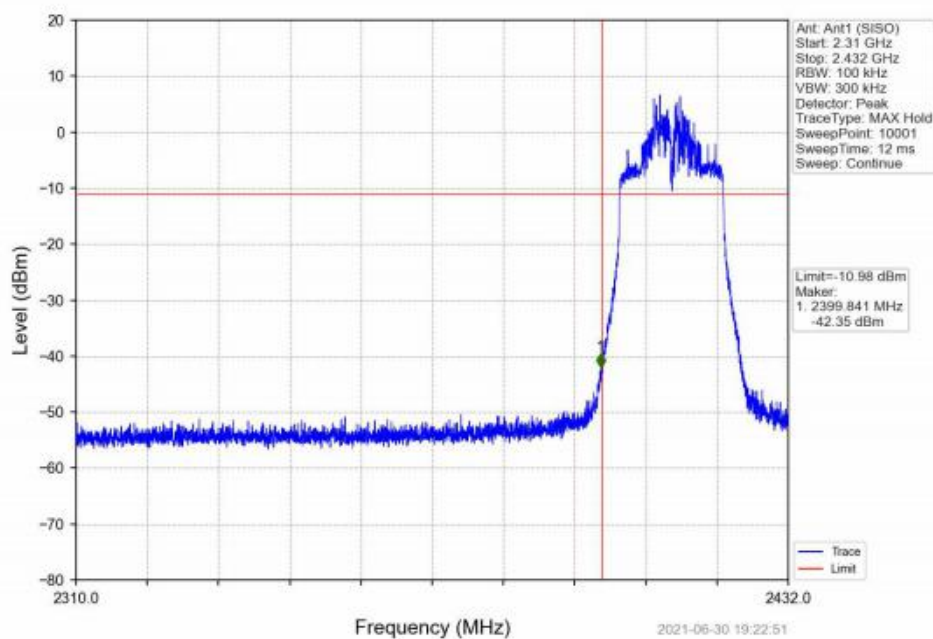
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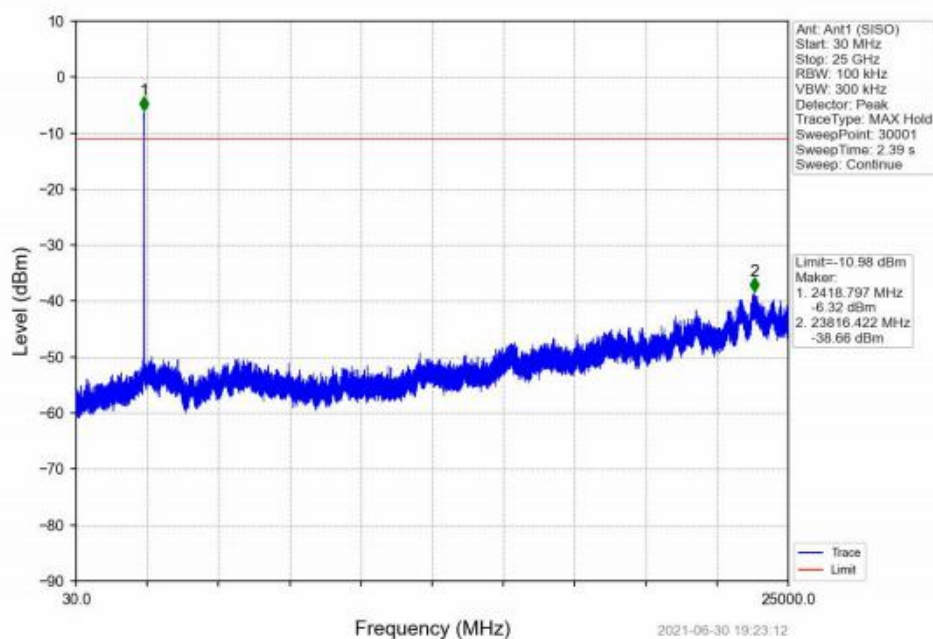
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



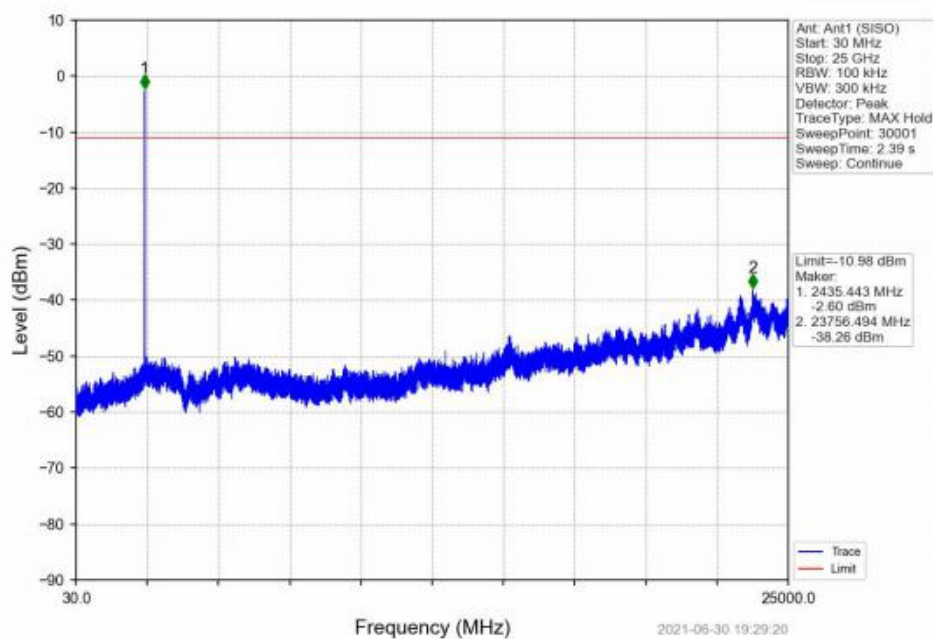
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



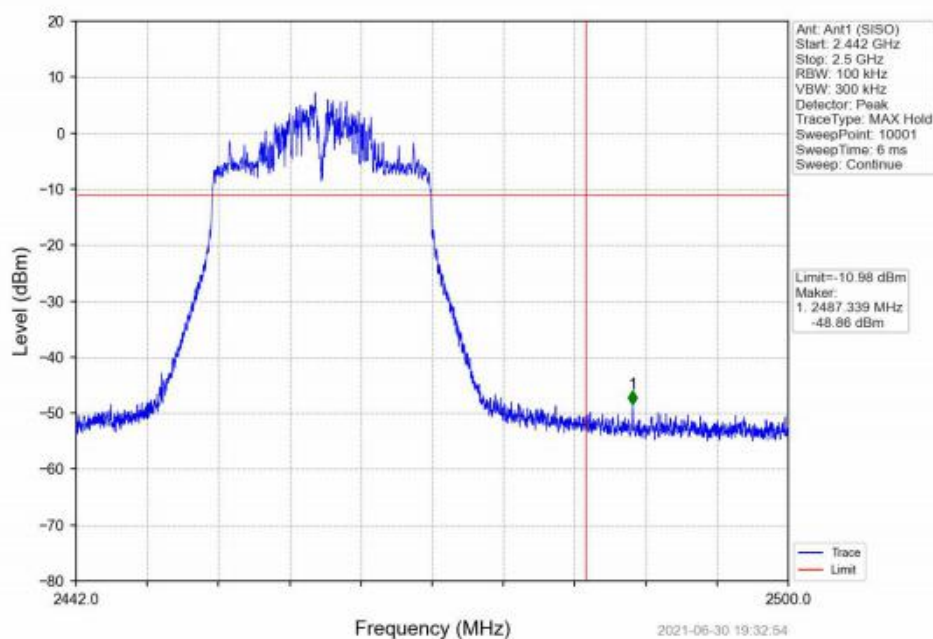
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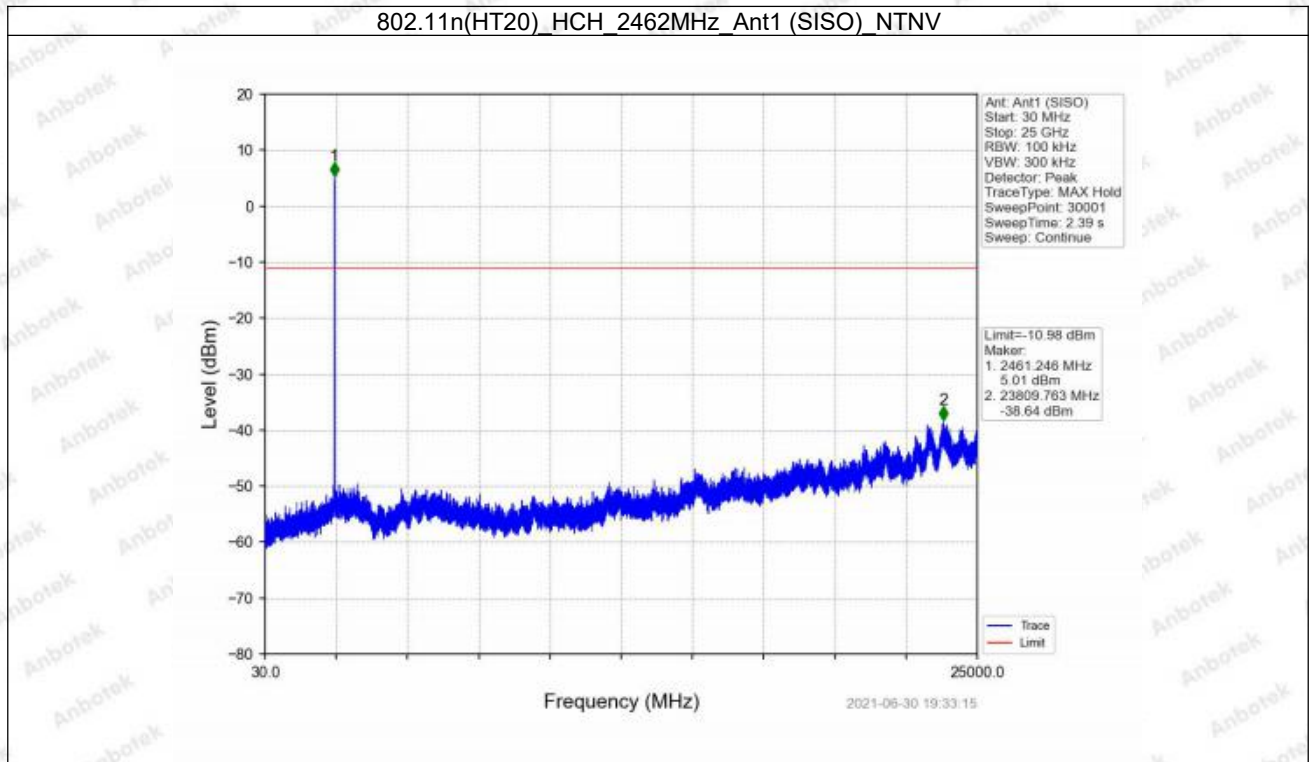


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





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