

Appendix Test Data

Project No.:	18220WC10141101	Test Date:	2021.6.28
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3℃	Relative Humidity:	56.2%
Pressure:	1012 hPa		

1. Duty Cycle

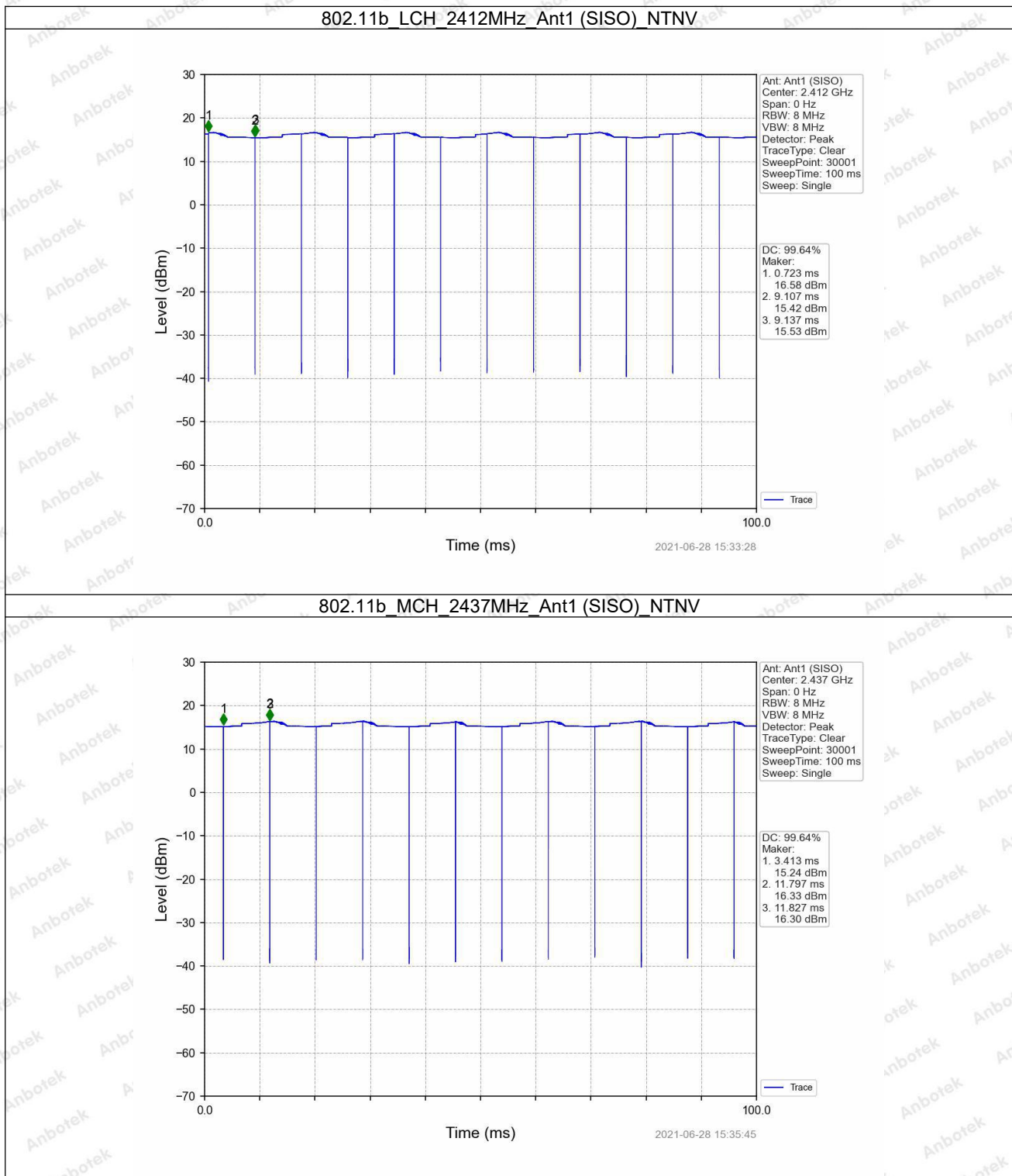
1.1 Ant1

1.1.1 Test Result

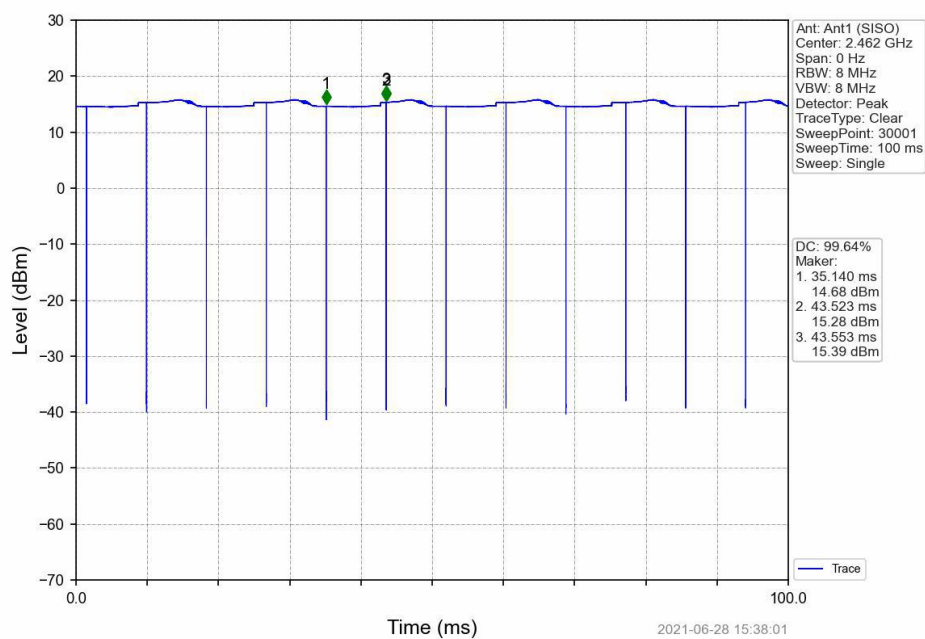
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.38	8.41	99.64	0.02	0.00
		2437	/	/	8.38	8.41	99.64	0.02	0.00
		2462	/	/	8.38	8.41	99.64	0.02	0.04
802.11g	SISO	2412	/	/	1.39	1.43	97.55	0.11	0.03
		2437	/	/	1.39	1.43	97.48	0.11	0.03
		2462	/	/	1.39	1.43	97.55	0.11	0.03
802.11n (HT20)	SISO	2412	/	/	1.30	1.34	97.31	0.12	0.03
		2437	/	/	1.30	1.33	97.30	0.12	0.03
		2462	/	/	1.30	1.33	97.30	0.12	0.03

Note1: Only for Report Use

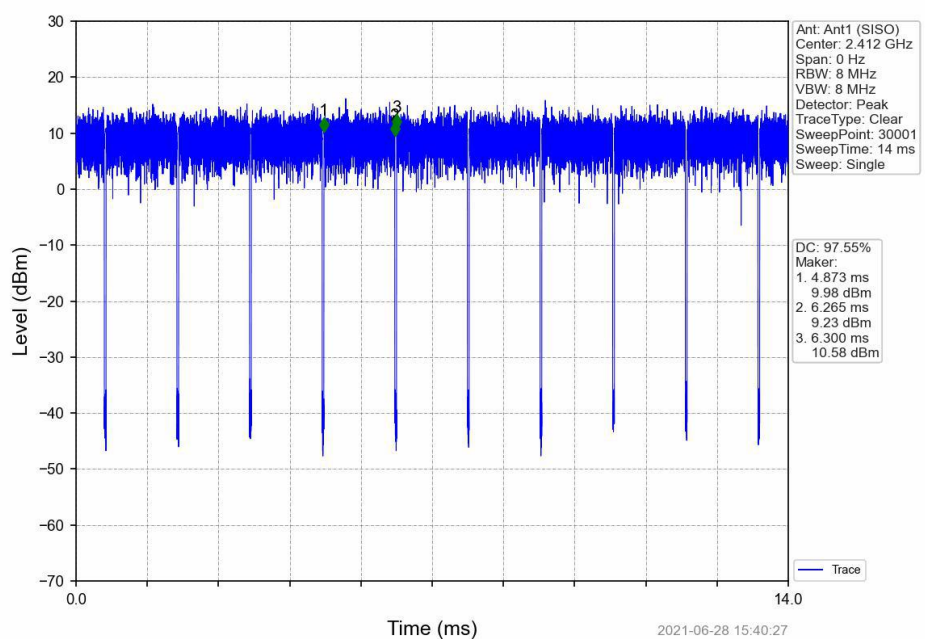
1.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



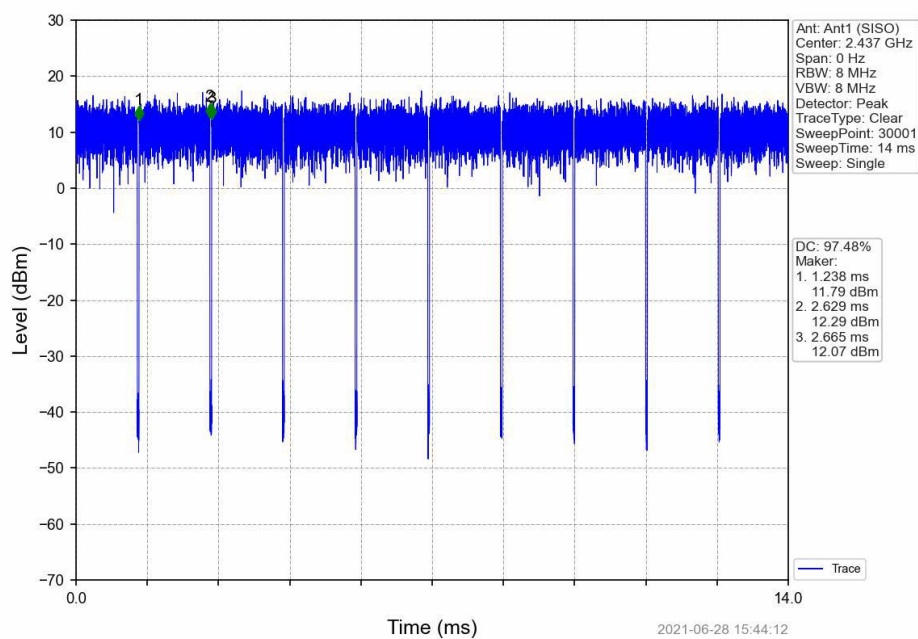
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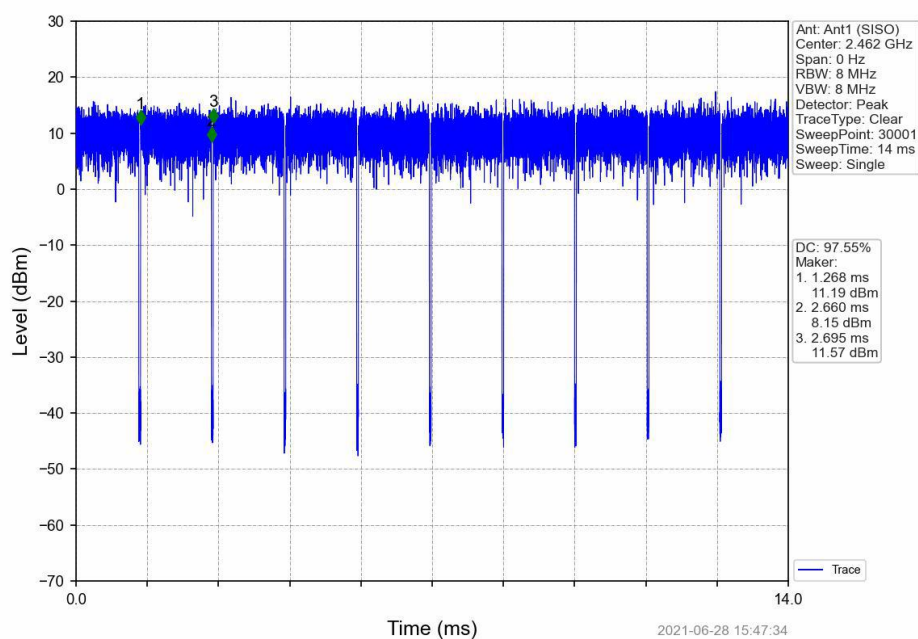
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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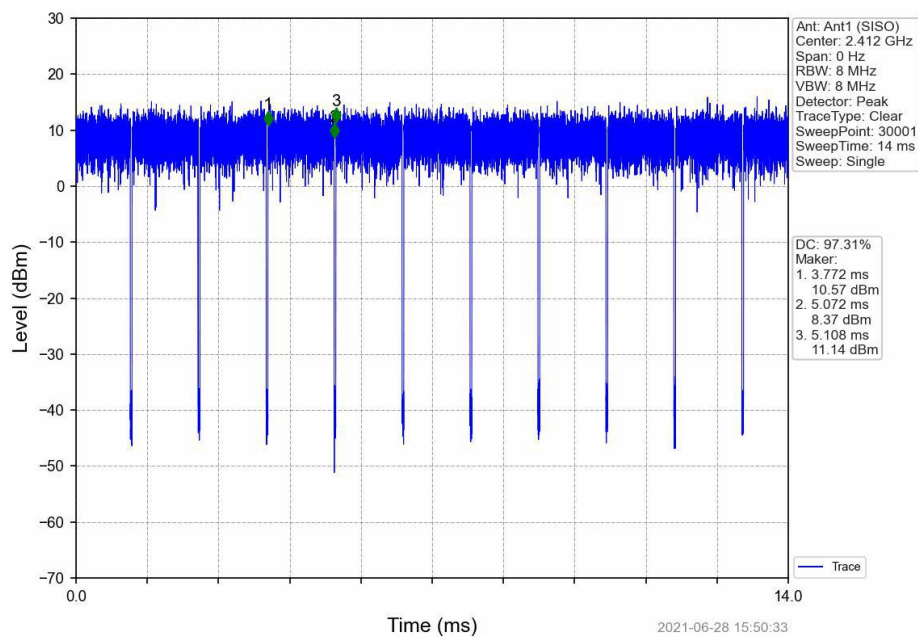


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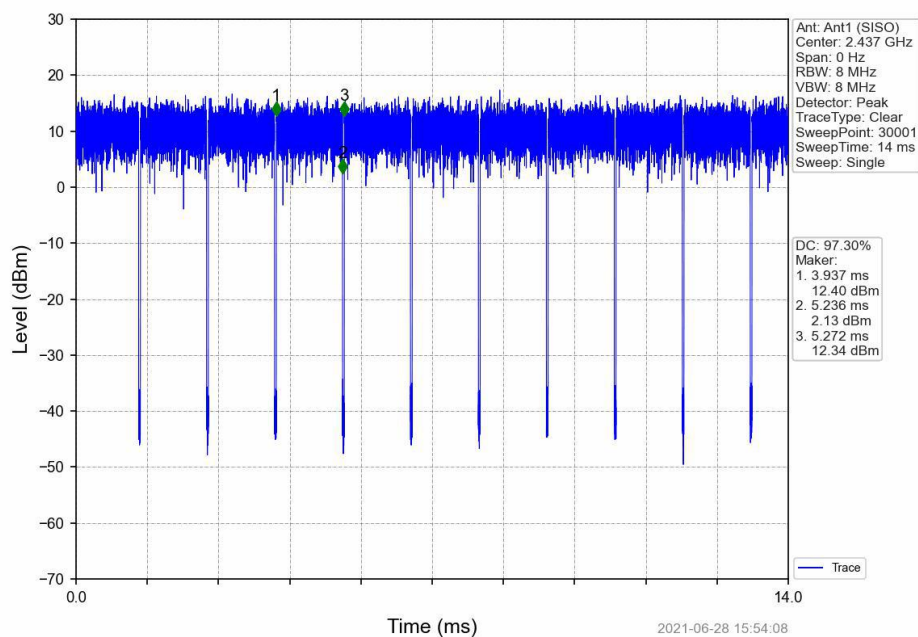
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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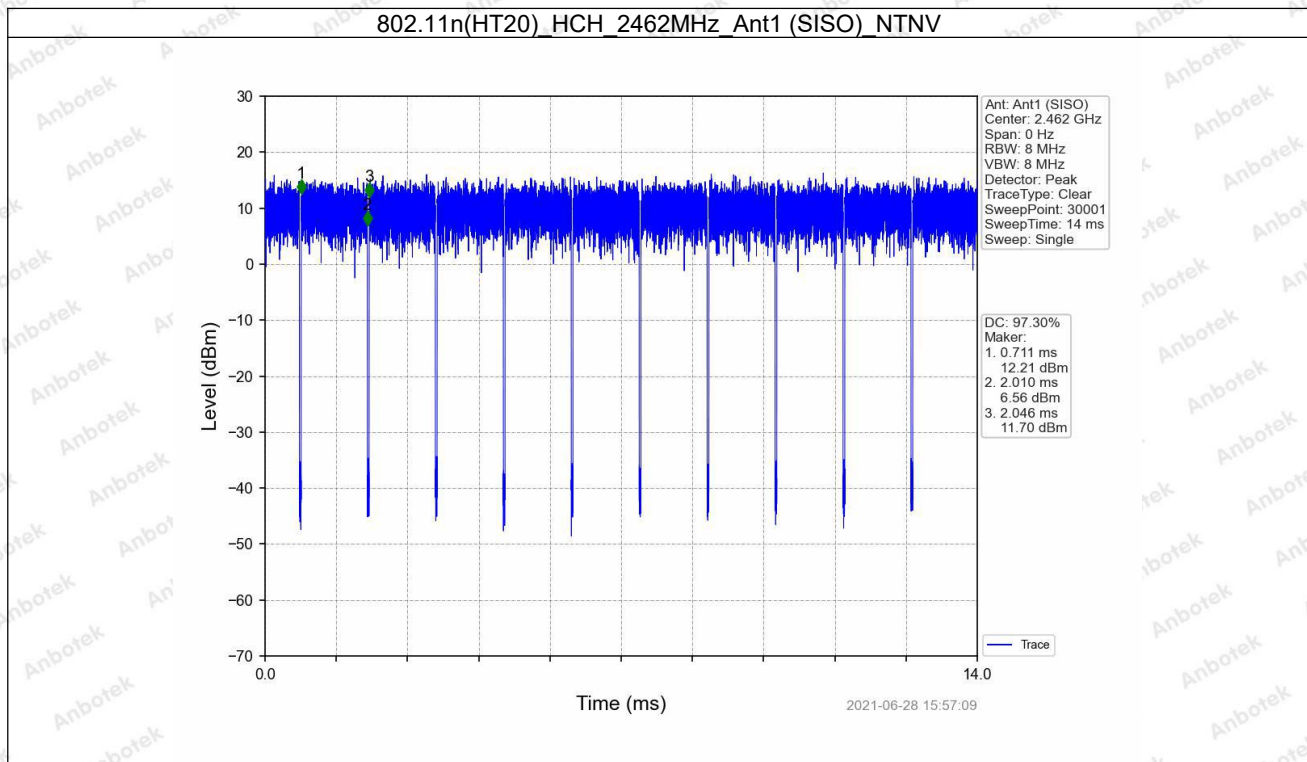
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2. Bandwidth

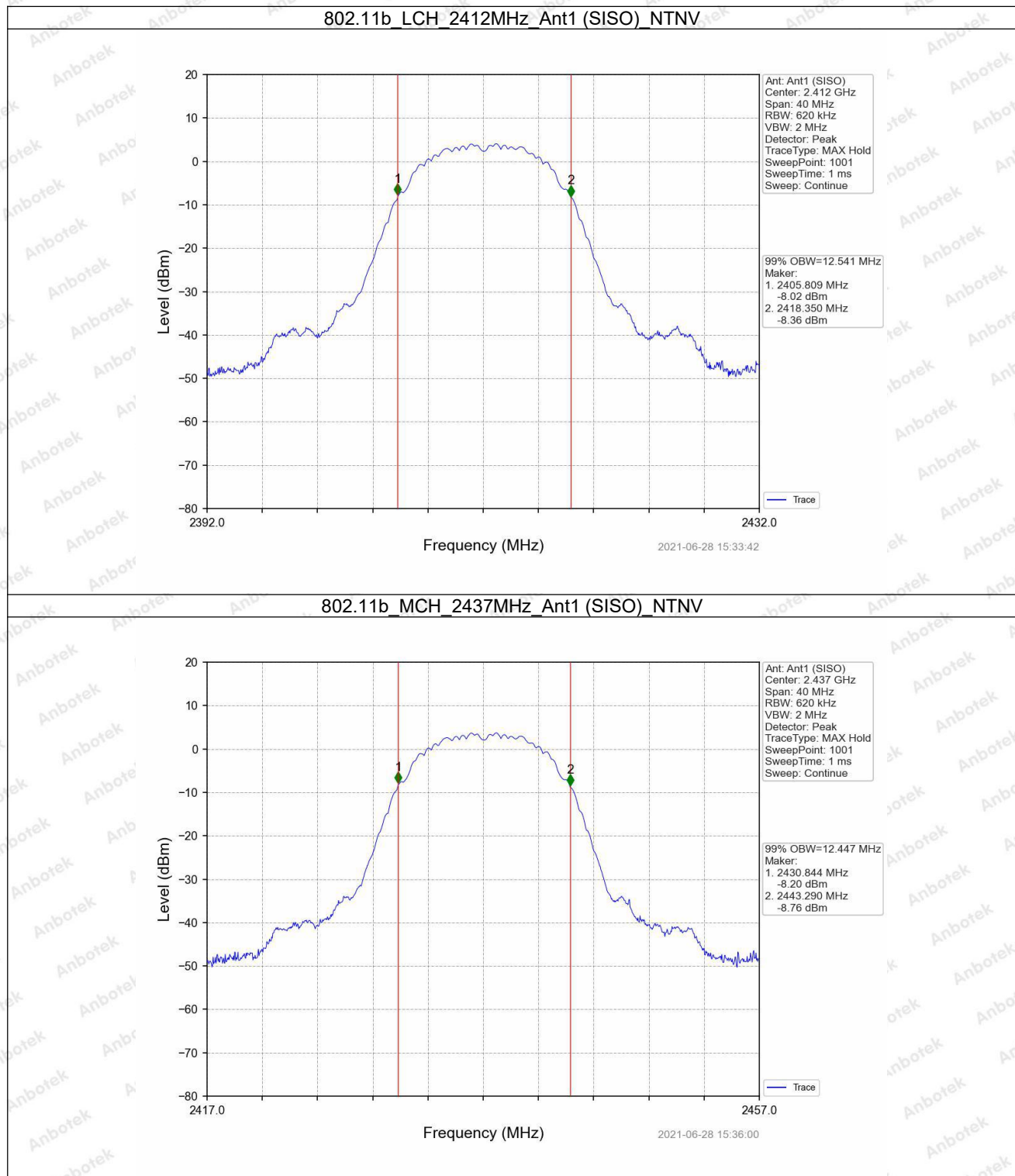
2.1 OBW

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	12.54	/	Note1
		2437	/	/	1	12.45	/	Note1
		2462	/	/	1	12.45	/	Note1
802.11g	SISO	2412	/	/	1	17.45	/	Note1
		2437	/	/	1	17.75	/	Note1
		2462	/	/	1	18.18	/	Note1
802.11n (HT20)	SISO	2412	/	/	1	18.18	/	Note1
		2437	/	/	1	18.38	/	Note1
		2462	/	/	1	18.71	/	Note1

Note1: Only for Report Use

2.1.2 Test Graph



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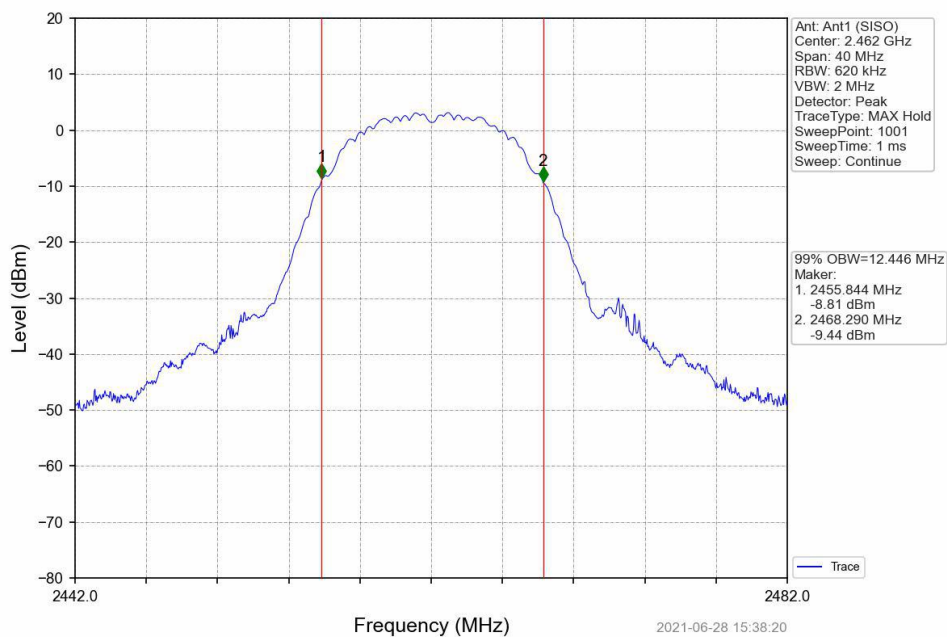


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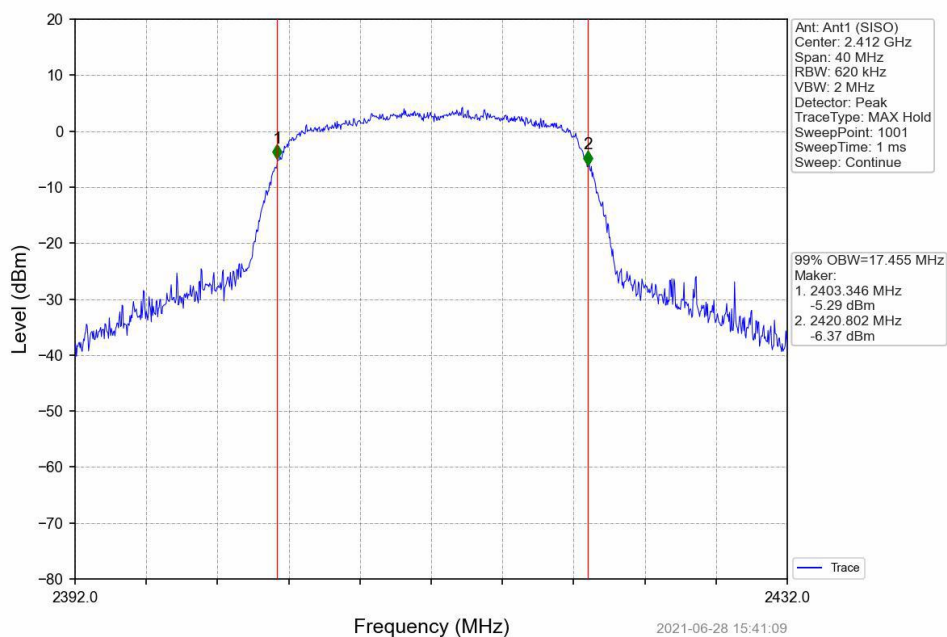
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

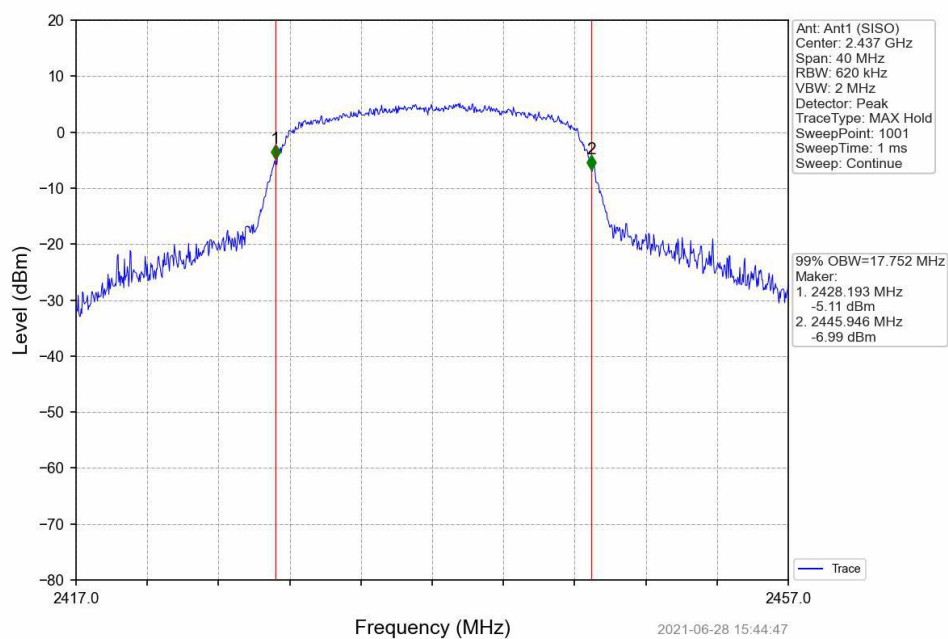


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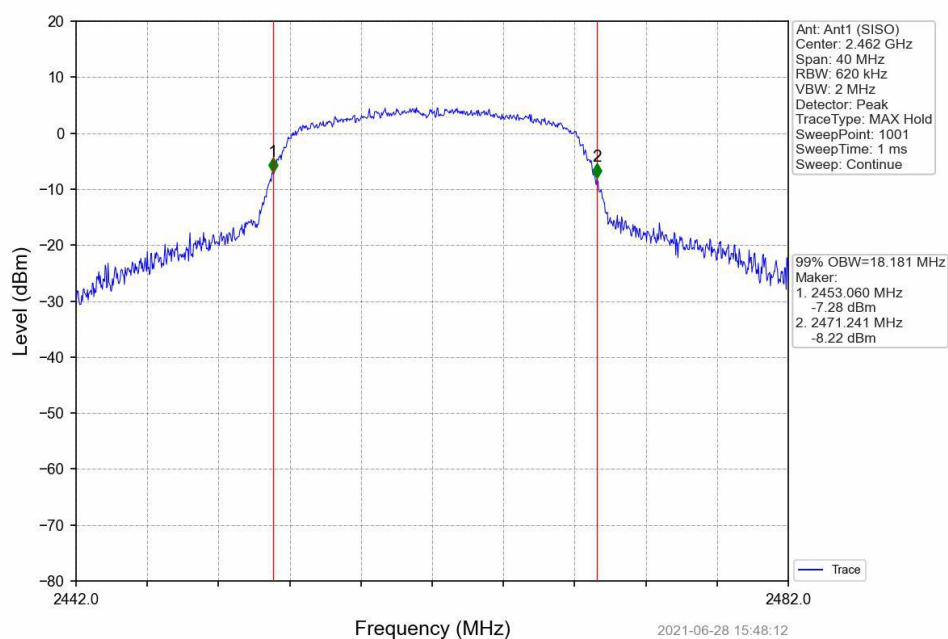
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

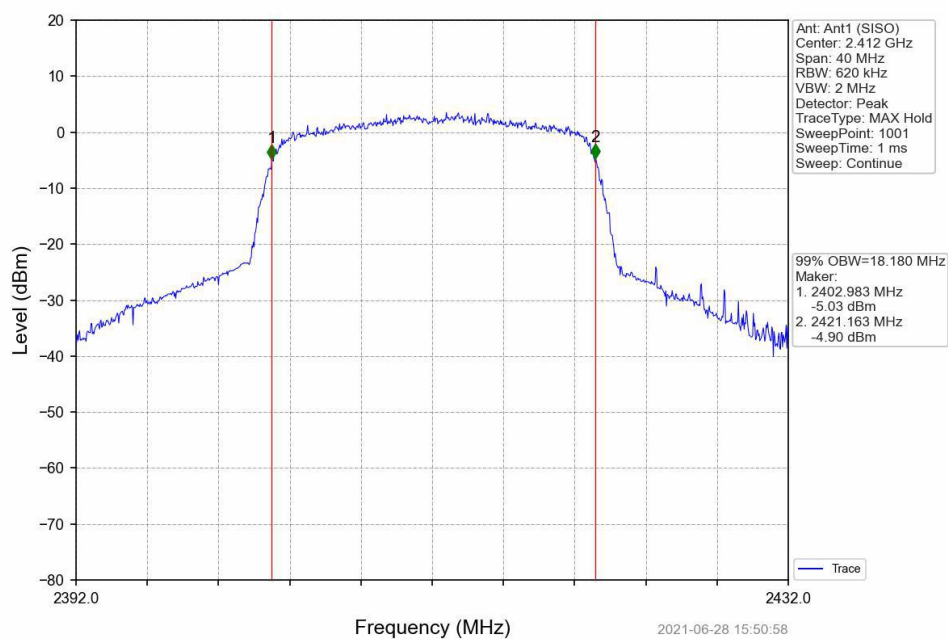


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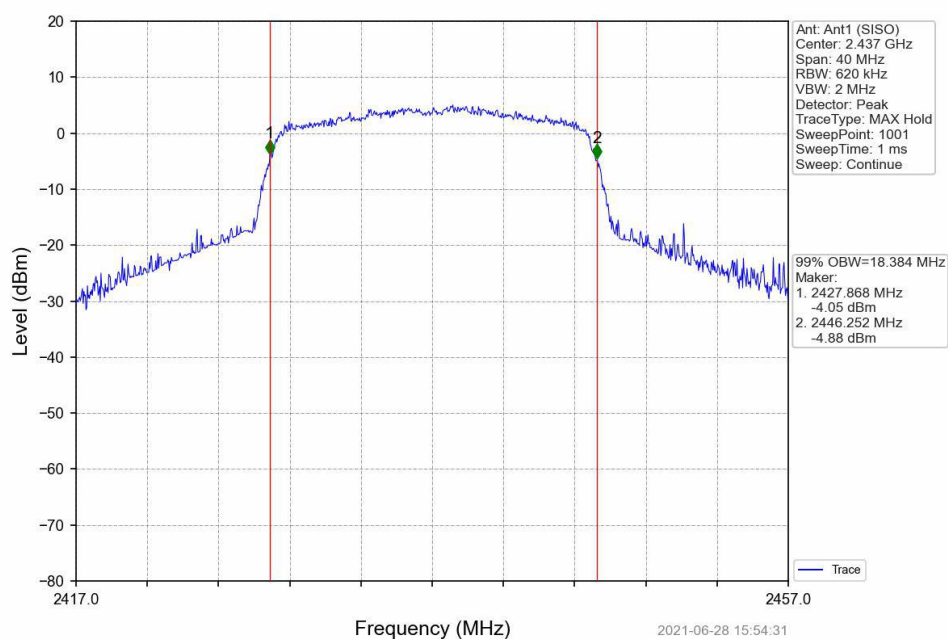
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

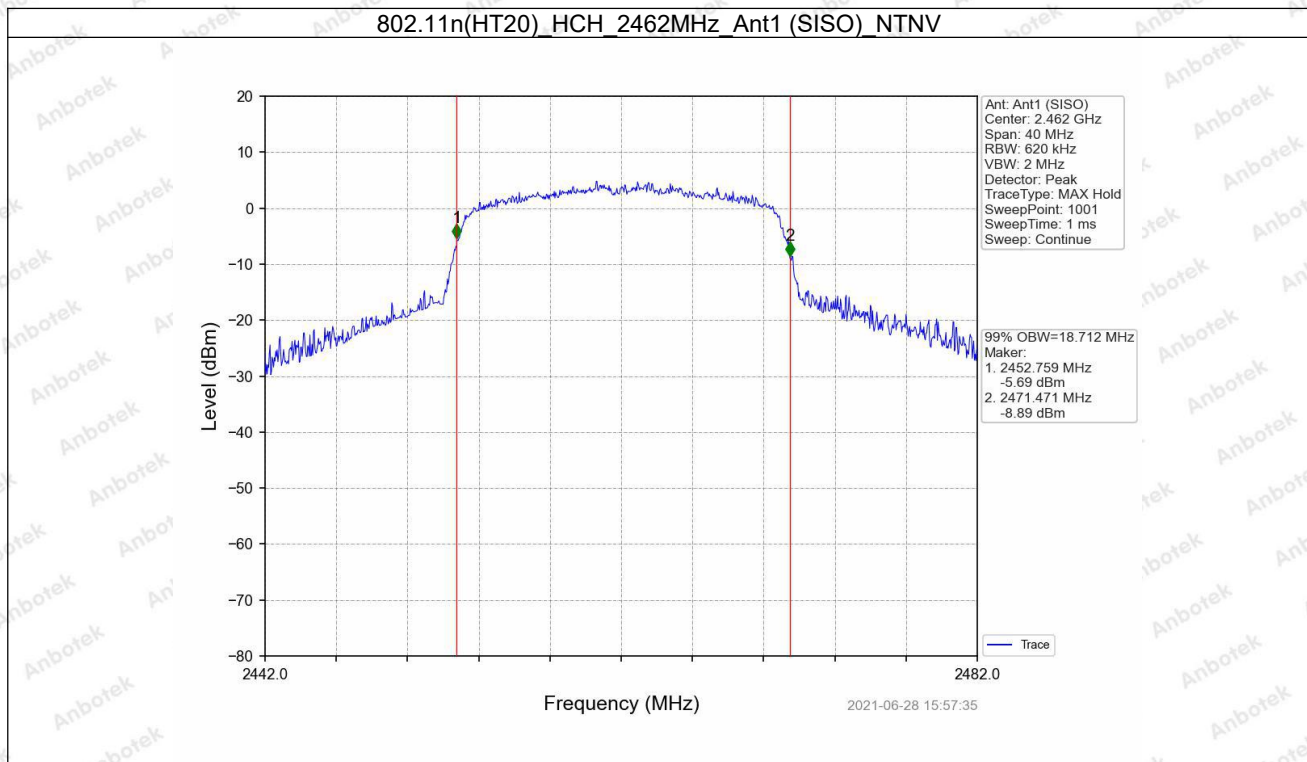


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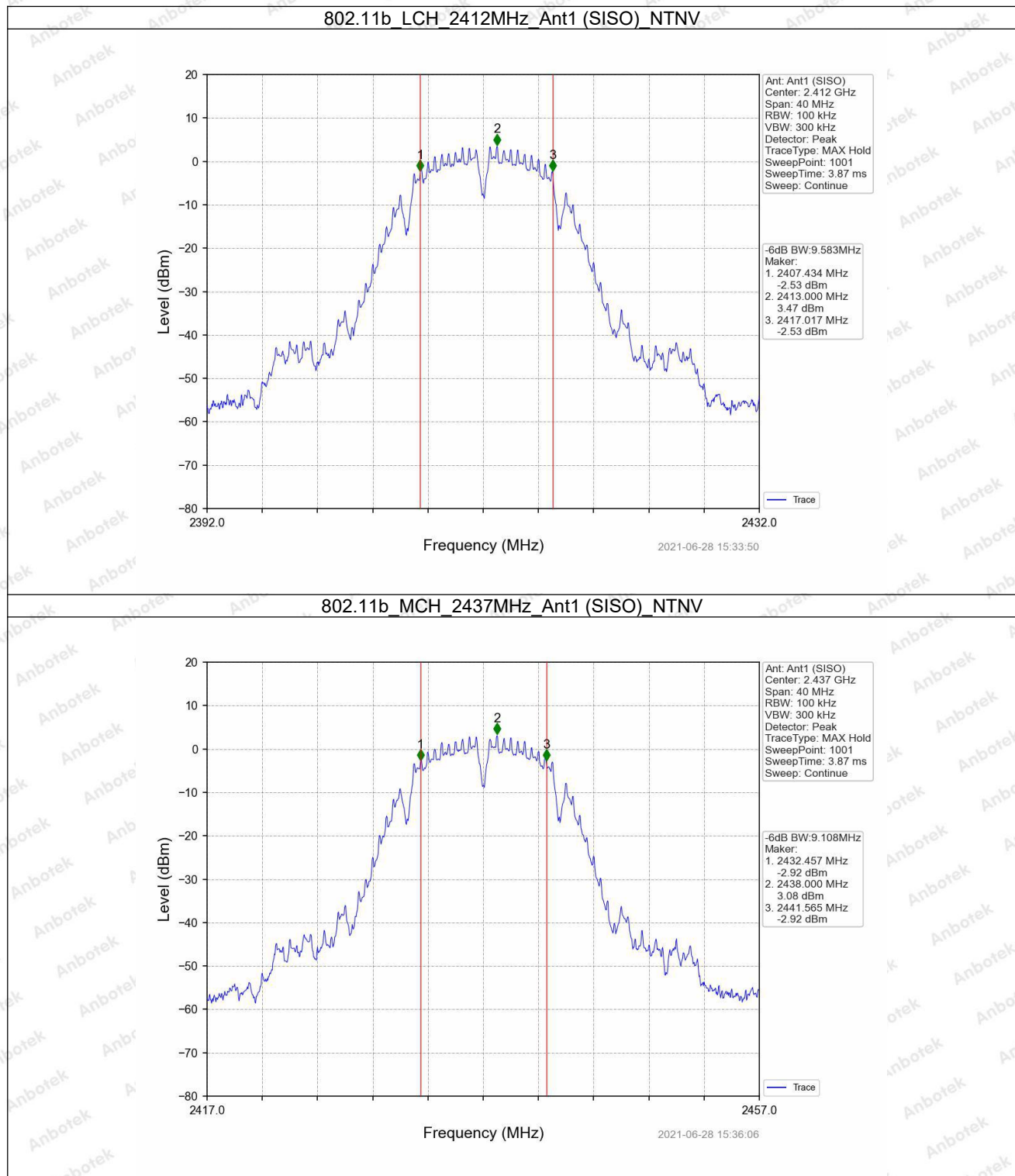
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	6dB Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	1	9.58	≥ 0.5	Pass
		2437	/	/	1	9.11	≥ 0.5	Pass
		2462	/	/	1	9.14	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	15.46	≥ 0.5	Pass
		2437	/	/	1	15.35	≥ 0.5	Pass
		2462	/	/	1	15.17	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	15.17	≥ 0.5	Pass
		2437	/	/	1	15.17	≥ 0.5	Pass
		2462	/	/	1	15.17	≥ 0.5	Pass

2.2.2 Test Graph



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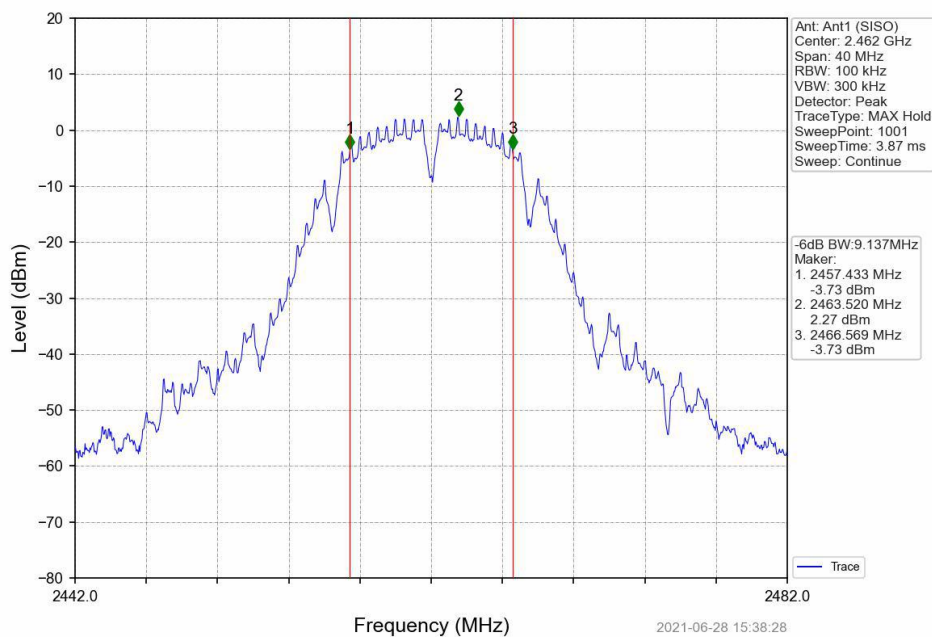


Hotline

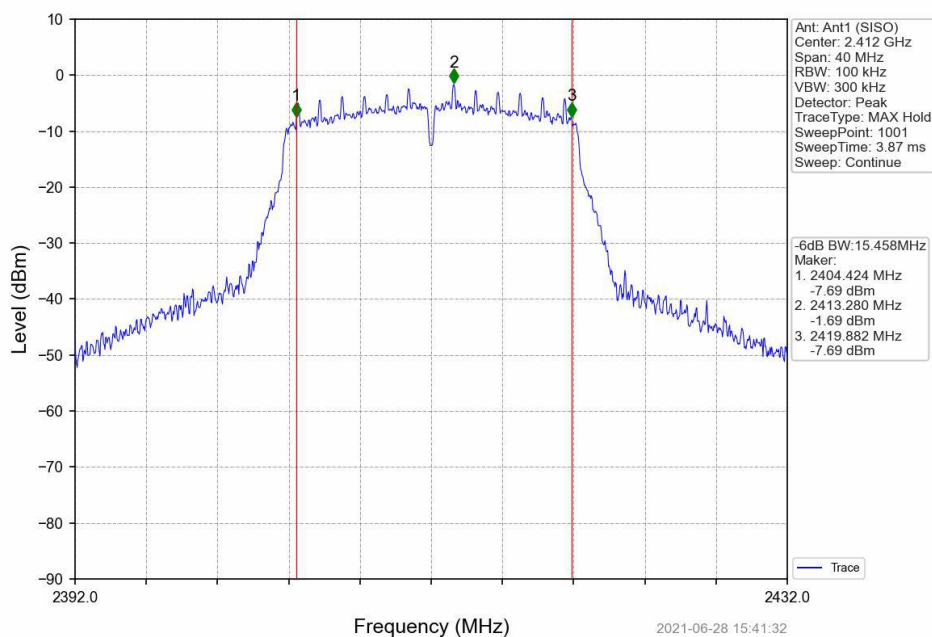
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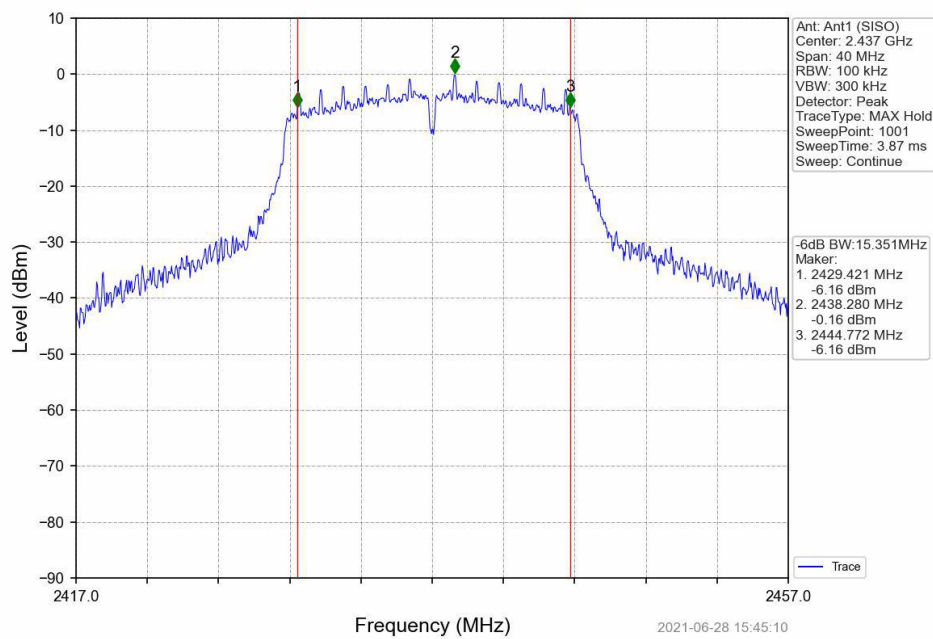
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



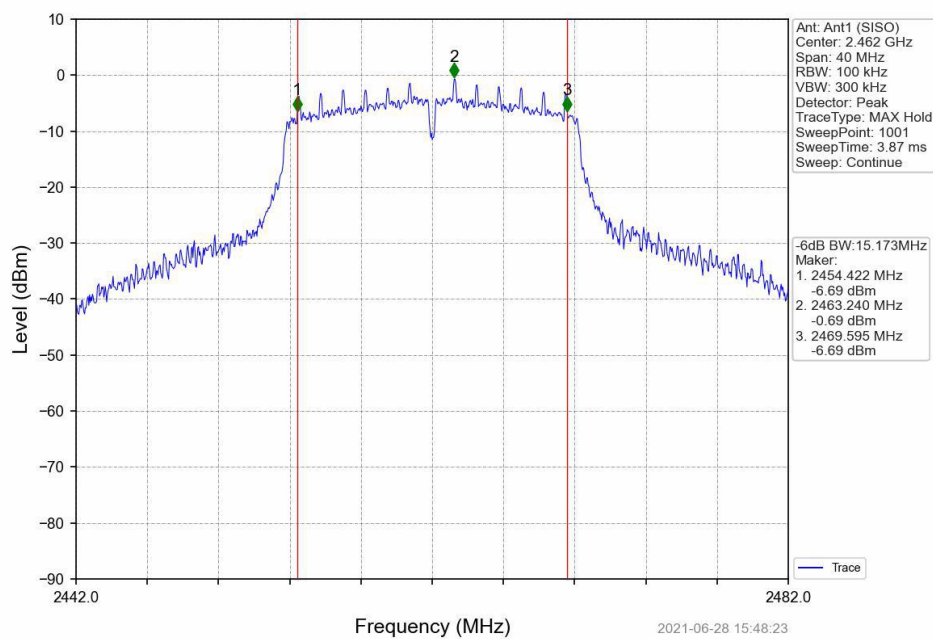
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



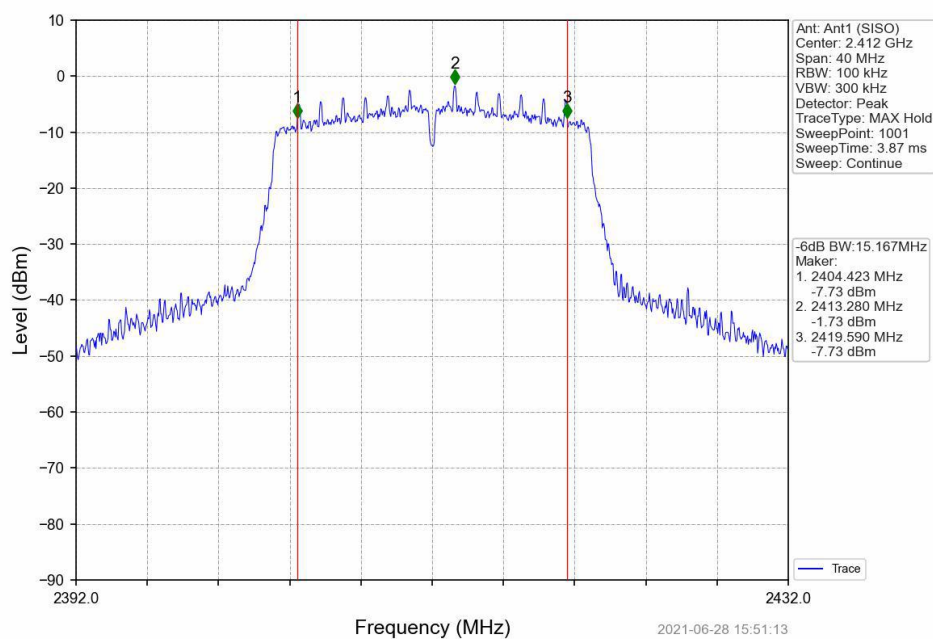
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



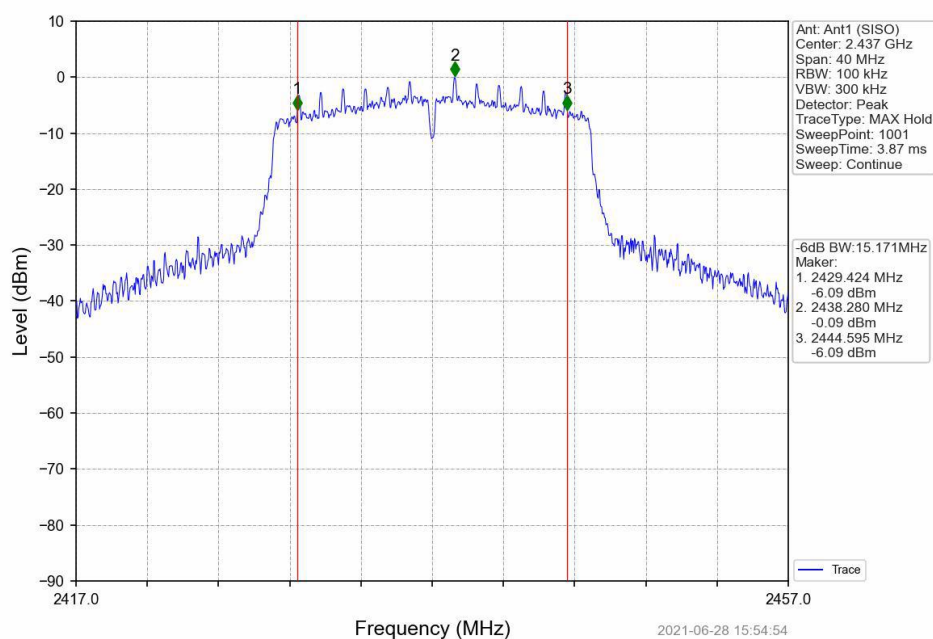
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

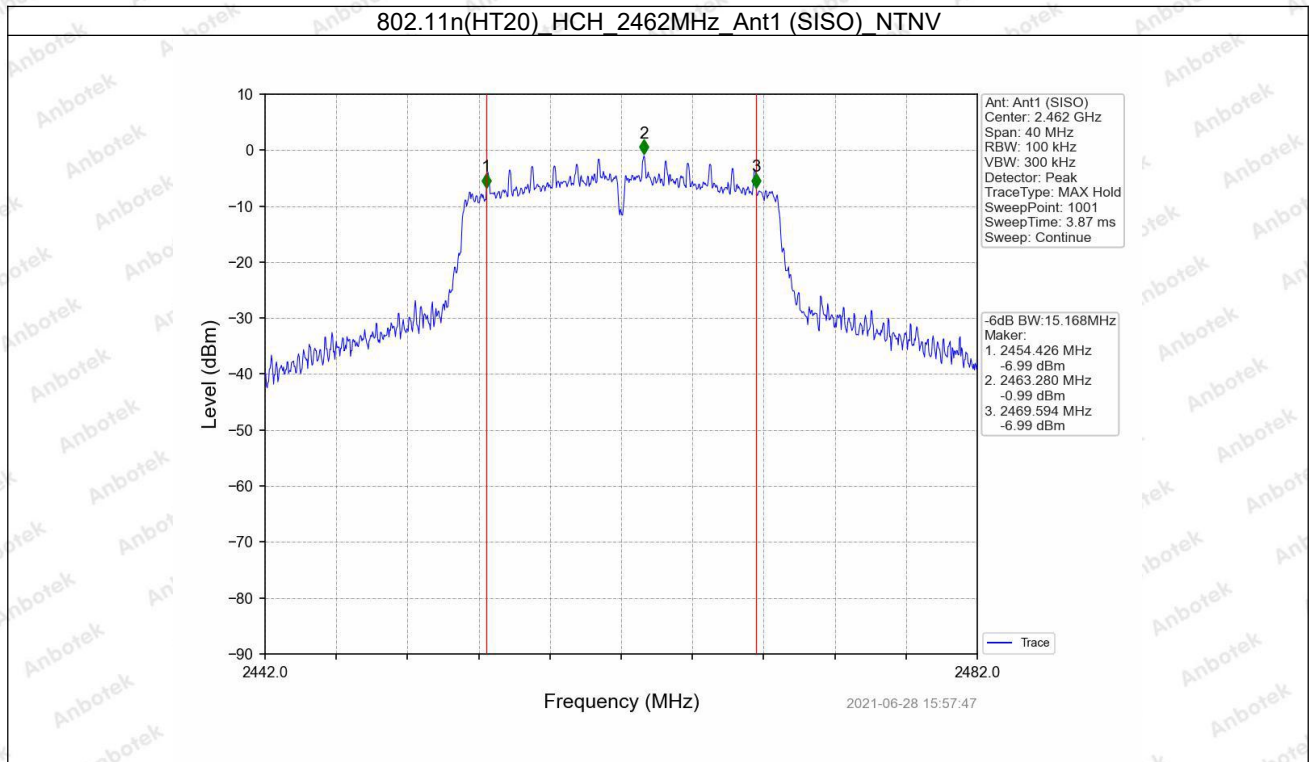


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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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	/	/	14.75	<=30	Pass
		2437	/	/	14.28	<=30	Pass
		2462	/	/	13.66	<=30	Pass
802.11g	SISO	2412	/	/	15.79	<=30	Pass
		2437	/	/	17.35	<=30	Pass
		2462	/	/	16.92	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	15.70	<=30	Pass
		2437	/	/	17.30	<=30	Pass
		2462	/	/	16.58	<=30	Pass

Note1: Antenna Gain: Ant1: 1.50dBi;

4. Maximum Power Spectral Density

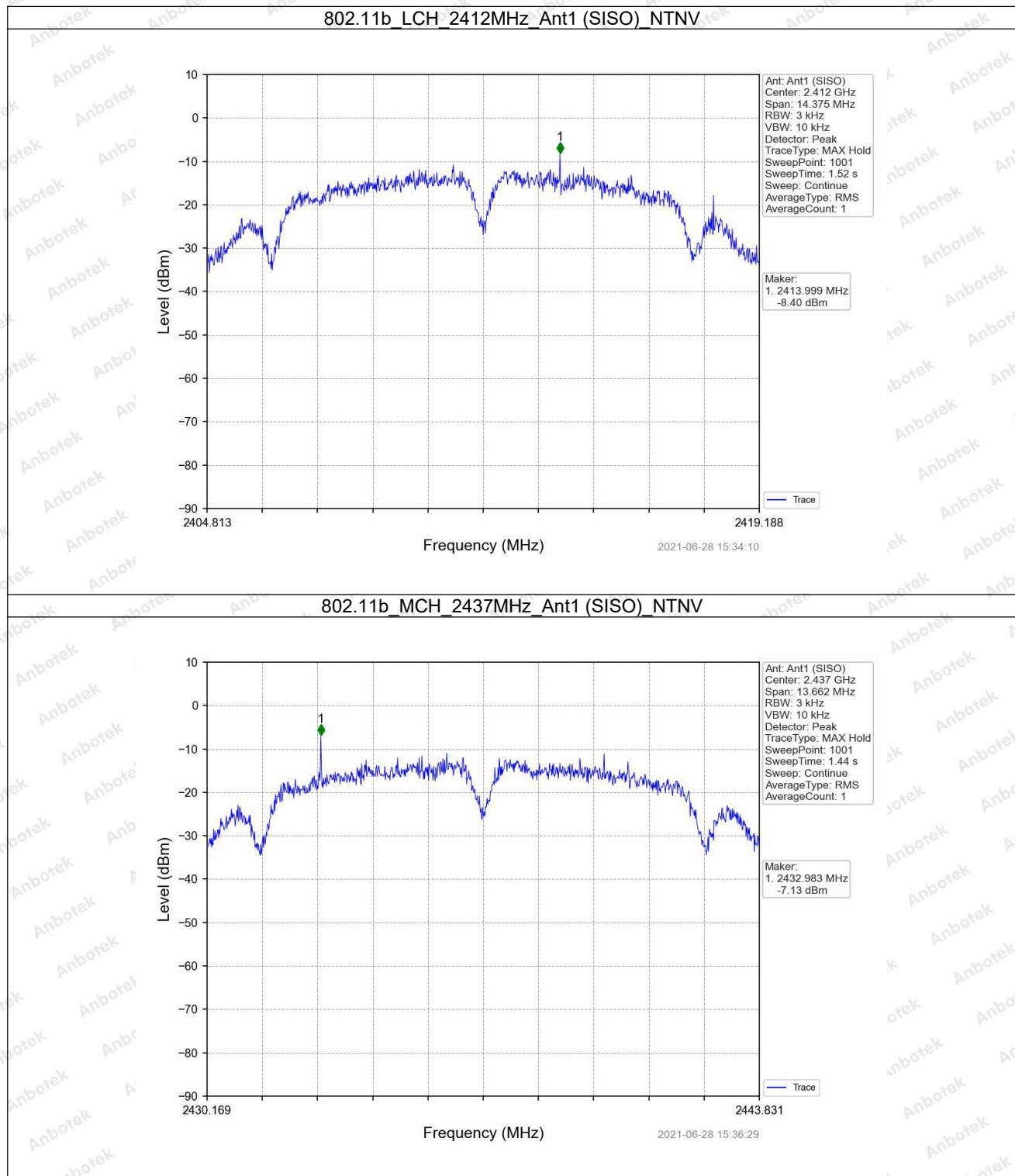
4.1 PSD

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	/	/	-8.40	<=8	Pass
		2437	/	/	-7.13	<=8	Pass
		2462	/	/	-10.49	<=8	Pass
802.11g	SISO	2412	/	/	-15.84	<=8	Pass
		2437	/	/	-15.08	<=8	Pass
		2462	/	/	-15.39	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-15.95	<=8	Pass
		2437	/	/	-15.19	<=8	Pass
		2462	/	/	-15.14	<=8	Pass

Note1: Antenna Gain: Ant1: 1.50dBi;

4.1.2 Test Graph



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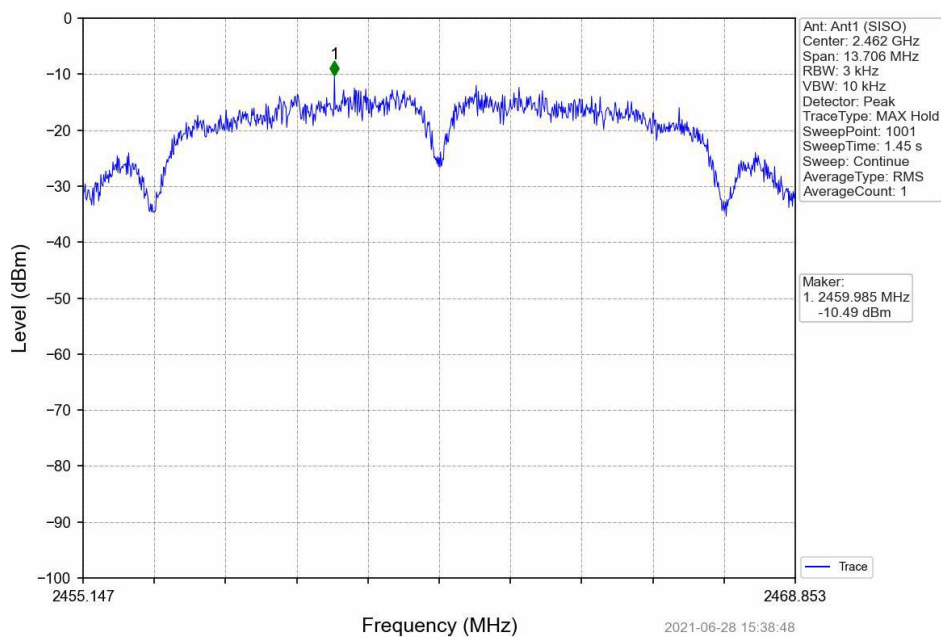


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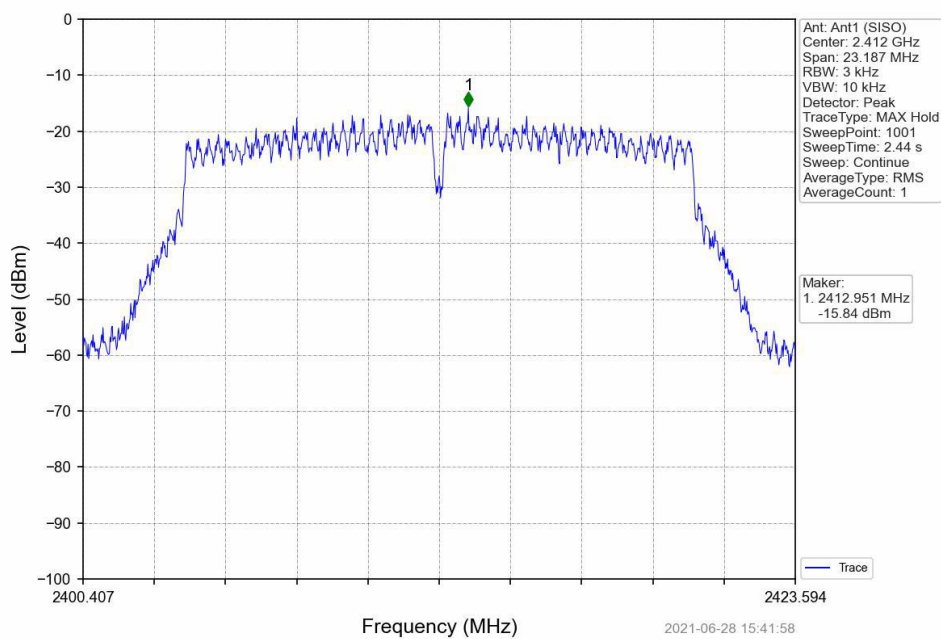
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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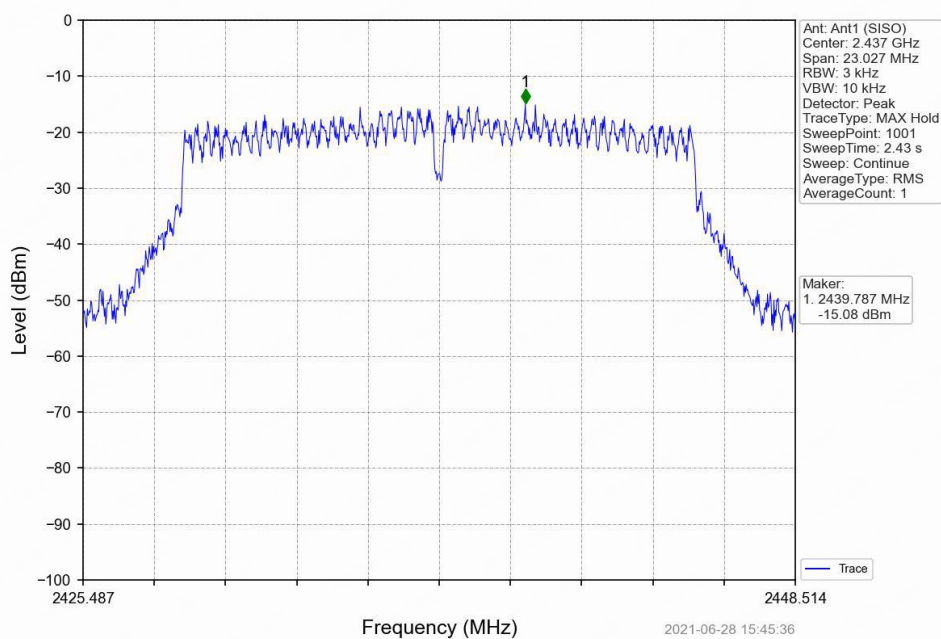


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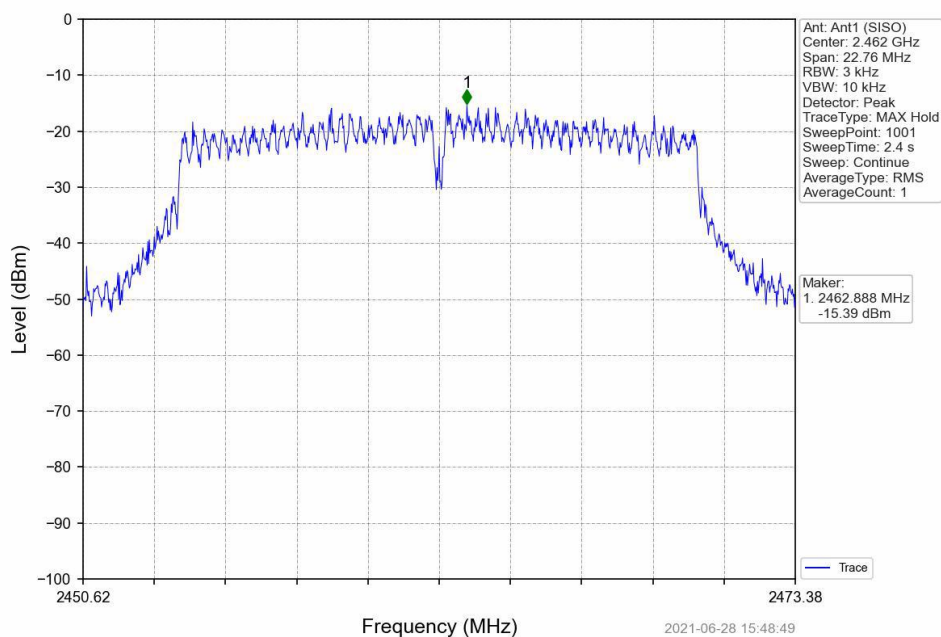
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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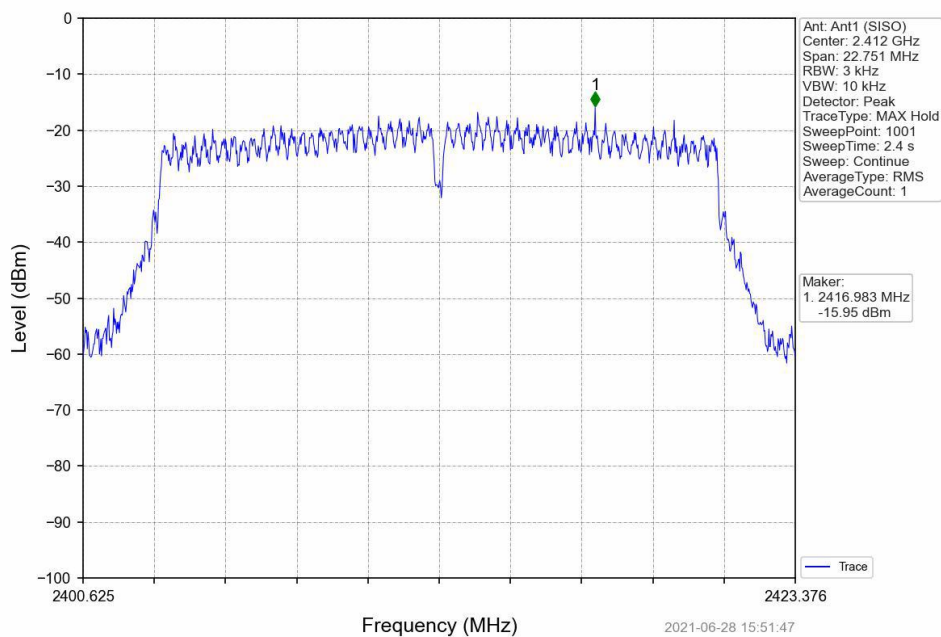


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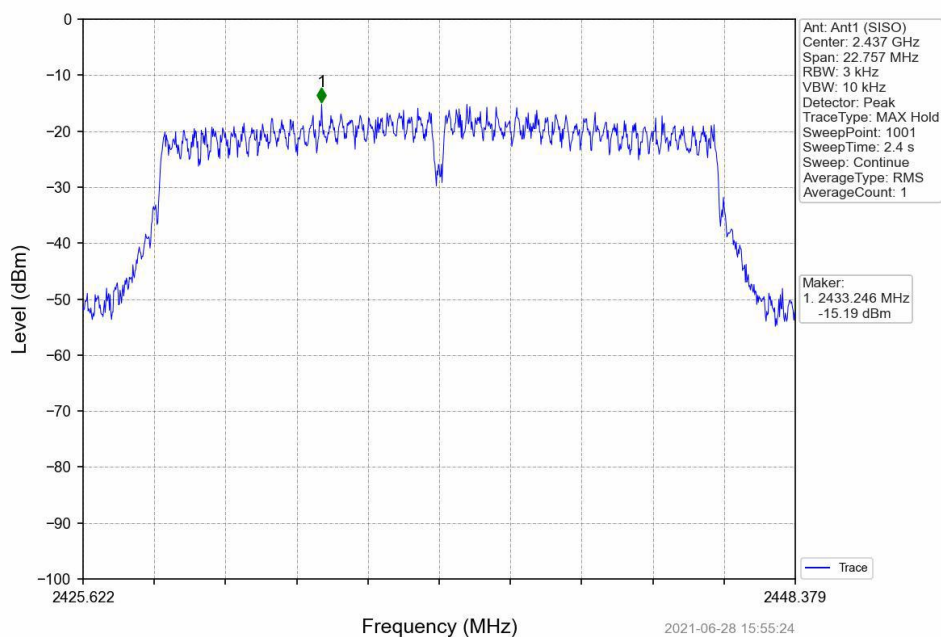
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

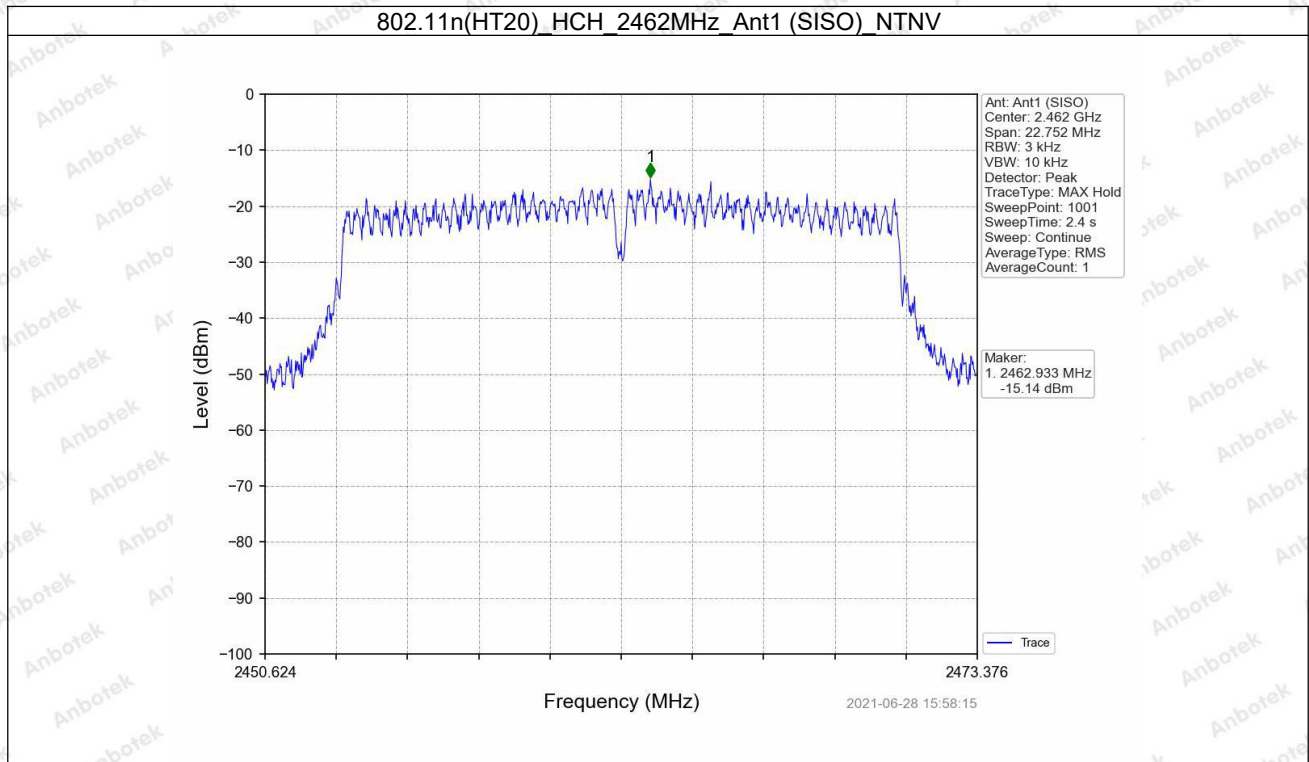
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5. Unwanted Emissions In Non-restricted Frequency Bands

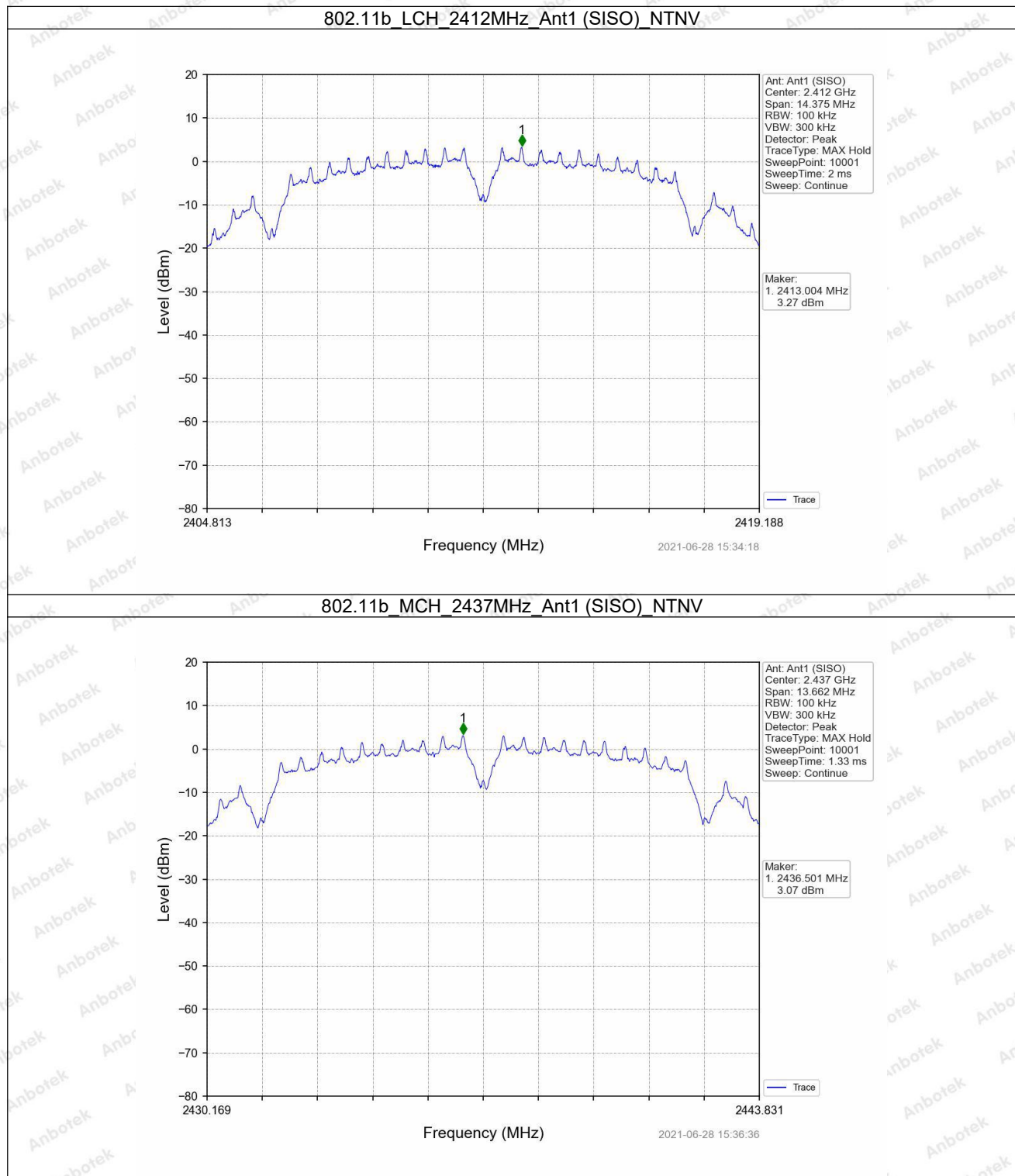
5.1 Ref

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	3.27	/	/
		2437	/	/	1	3.07	/	/
		2462	/	/	1	2.33	/	/
802.11g	SISO	2412	/	/	1	-2.21	/	/
		2437	/	/	1	-0.38	/	/
		2462	/	/	1	-0.77	/	/
802.11n (HT20)	SISO	2412	/	/	1	-1.93	/	/
		2437	/	/	1	-0.21	/	/
		2462	/	/	1	-1.00	/	/

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



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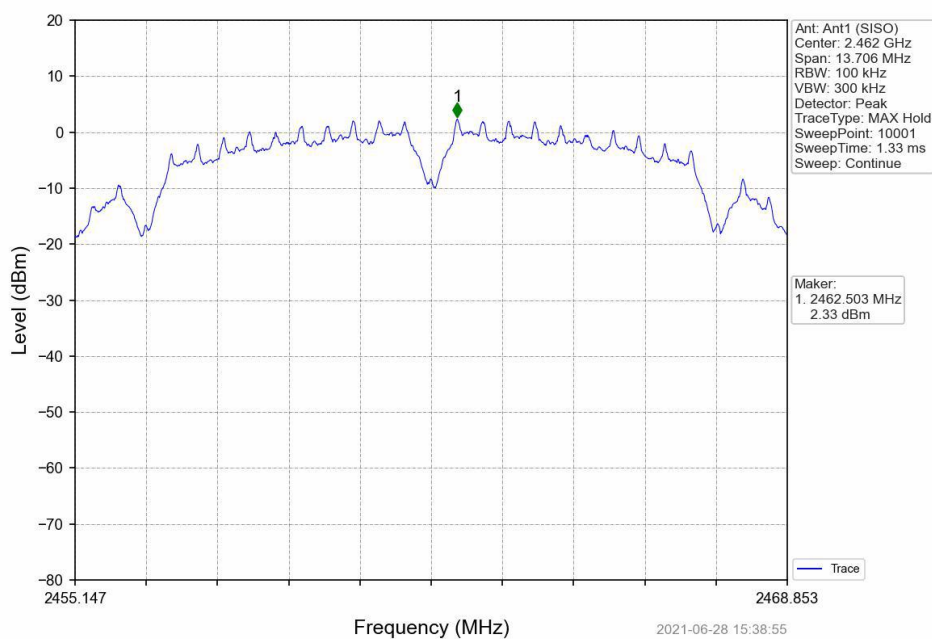


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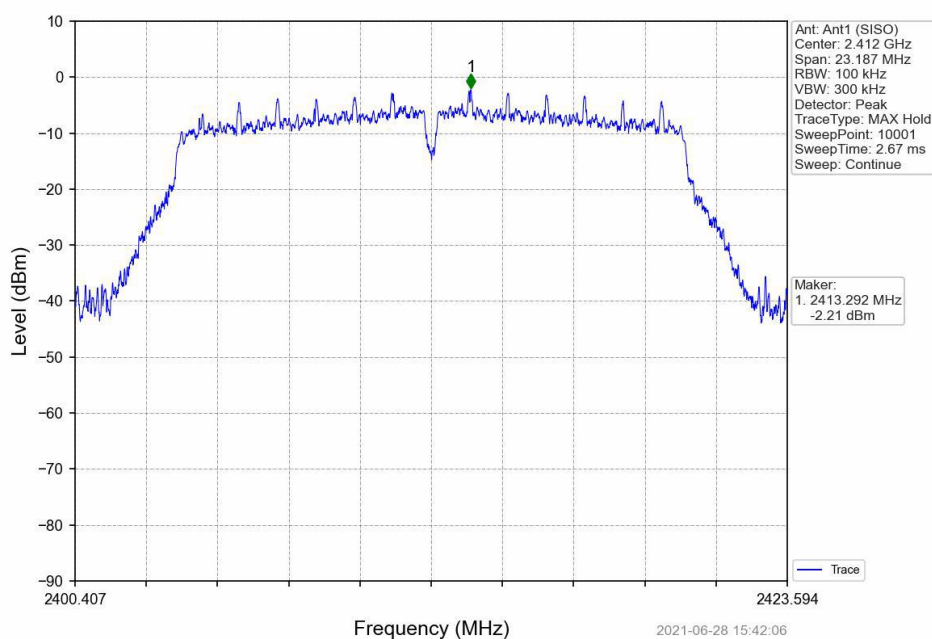
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



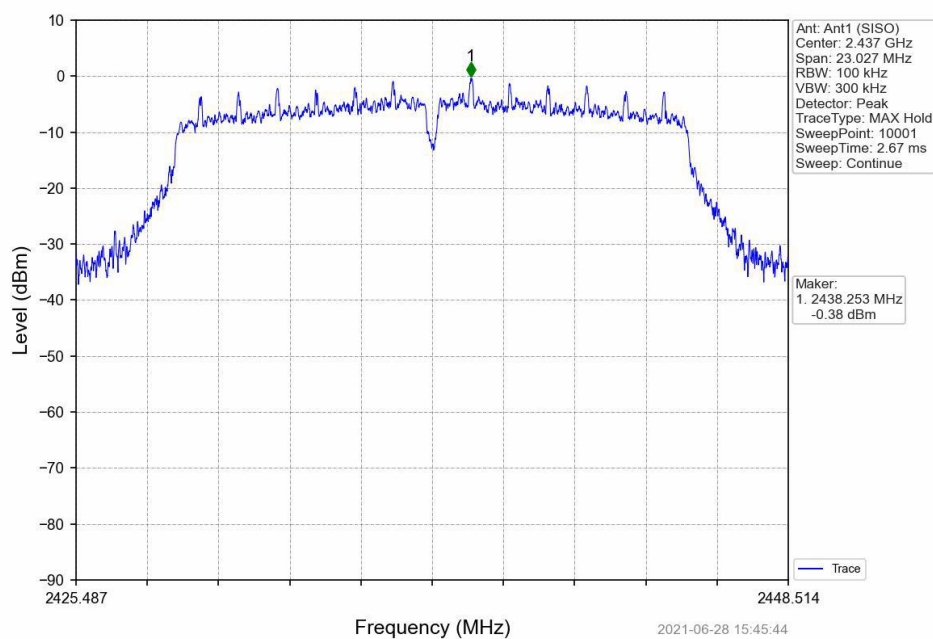
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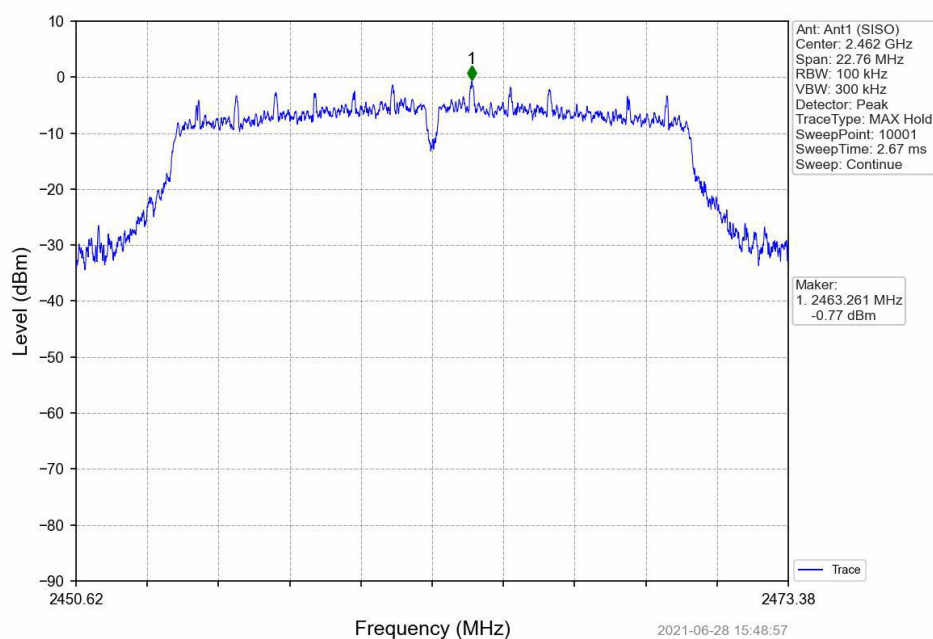
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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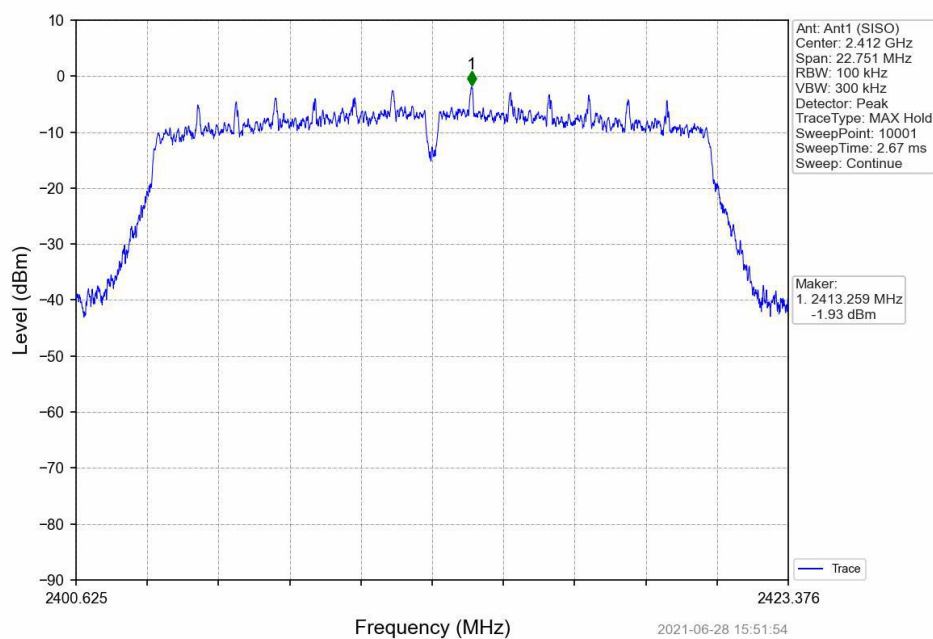


Hotline

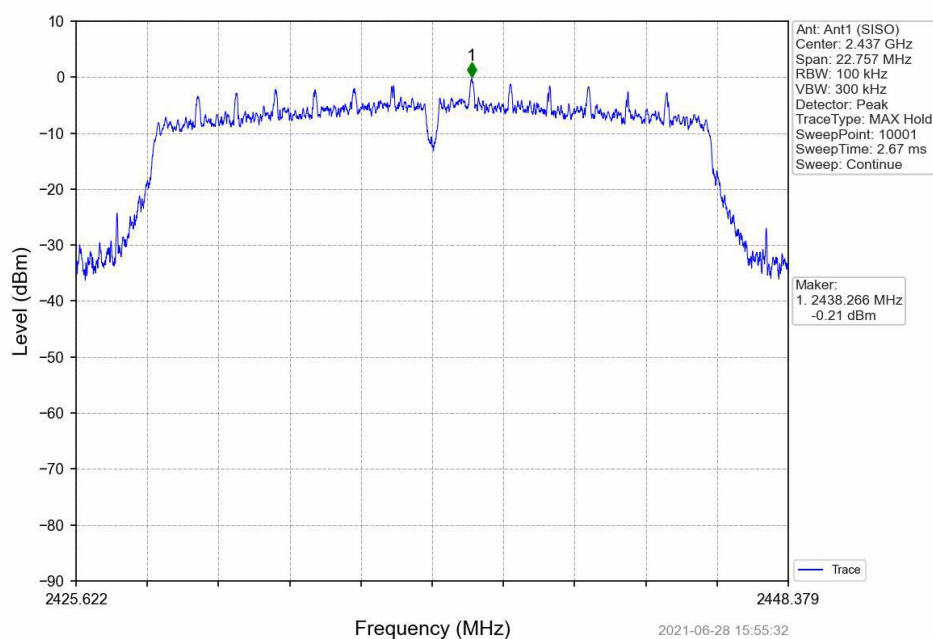
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

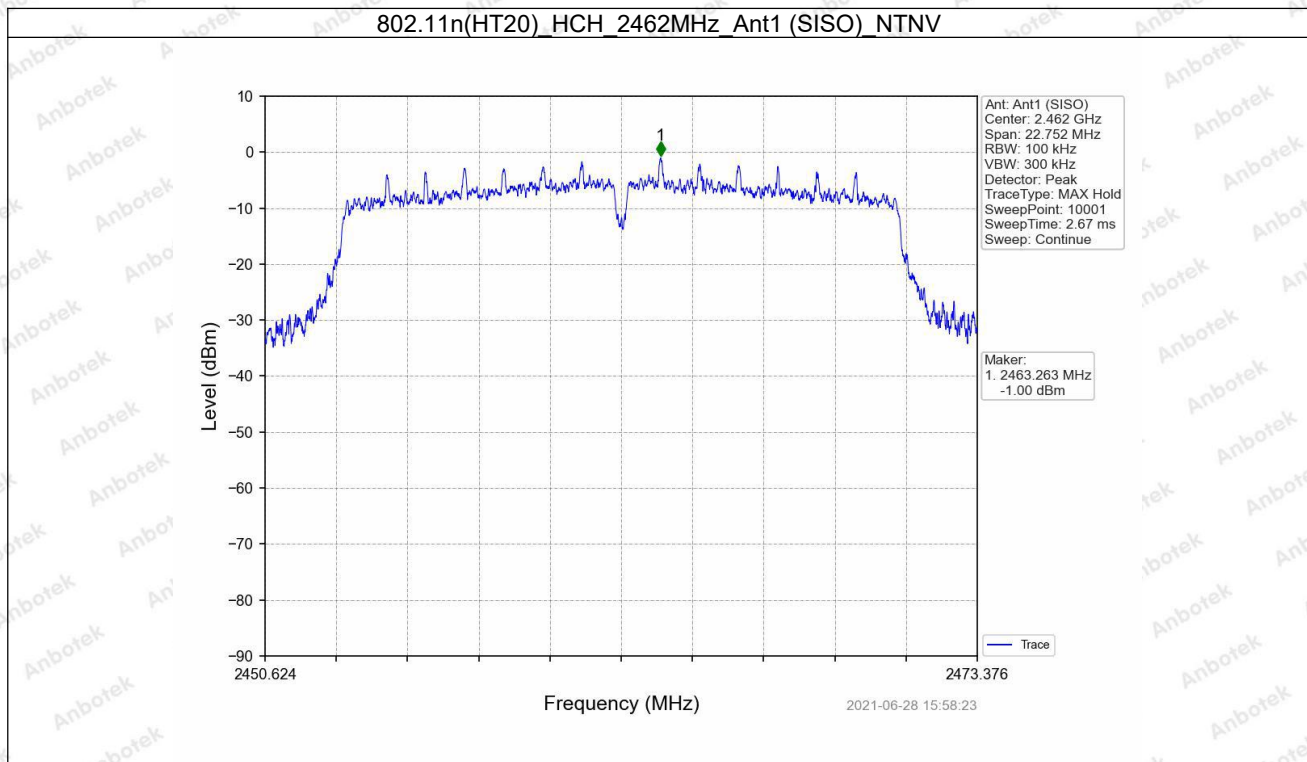


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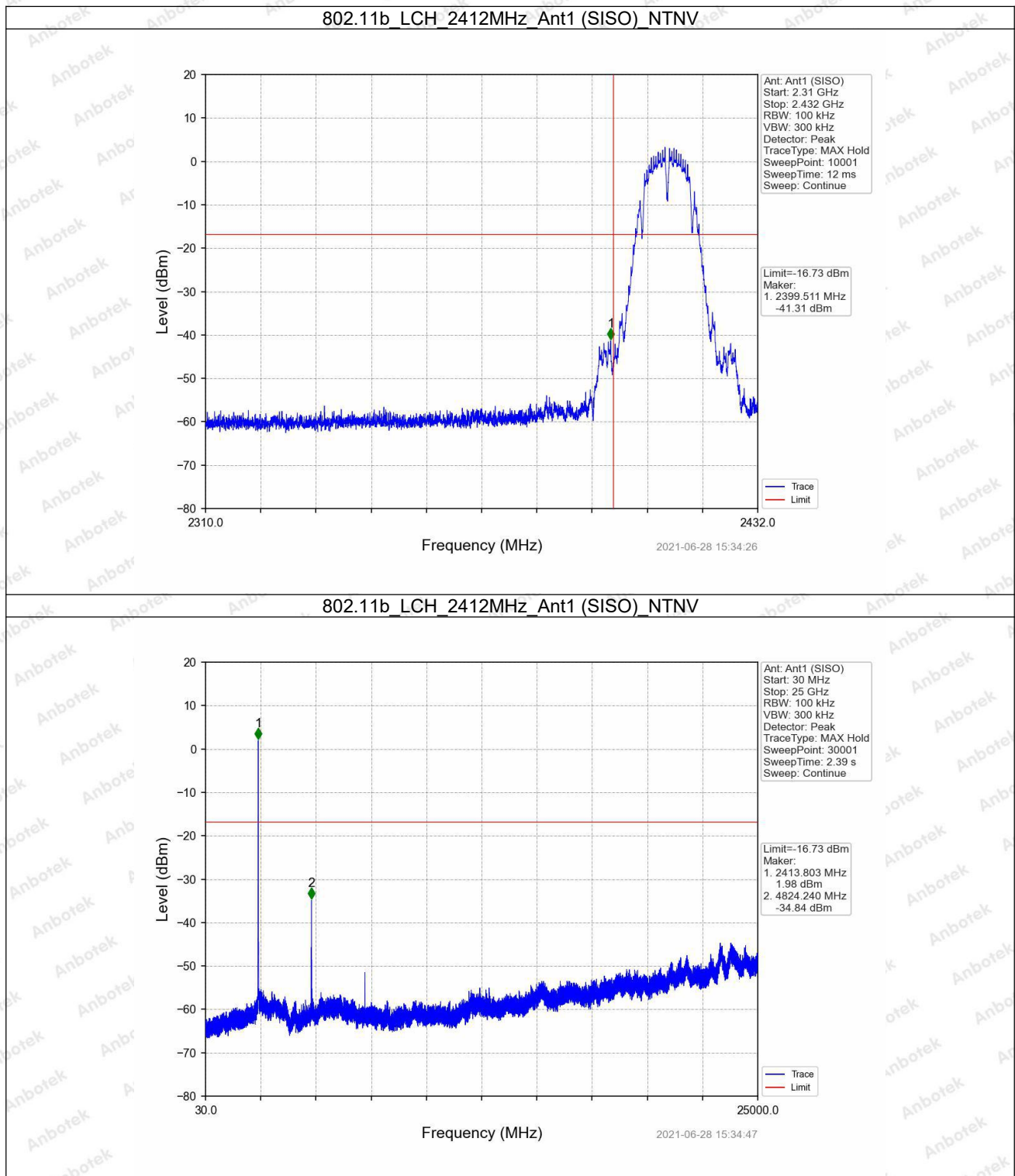
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5.2 CSE

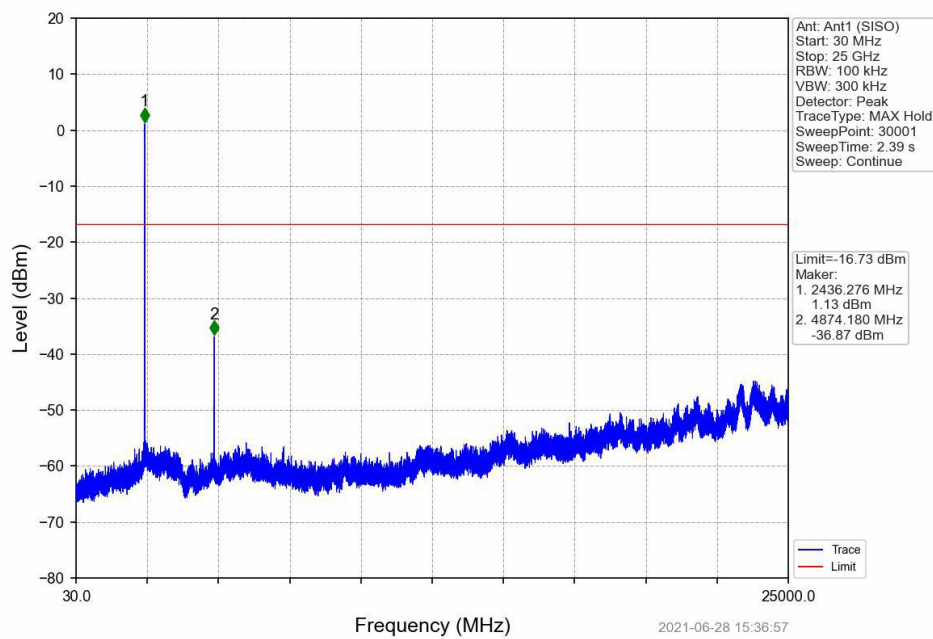
5.2.1 Test Result

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 C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.								

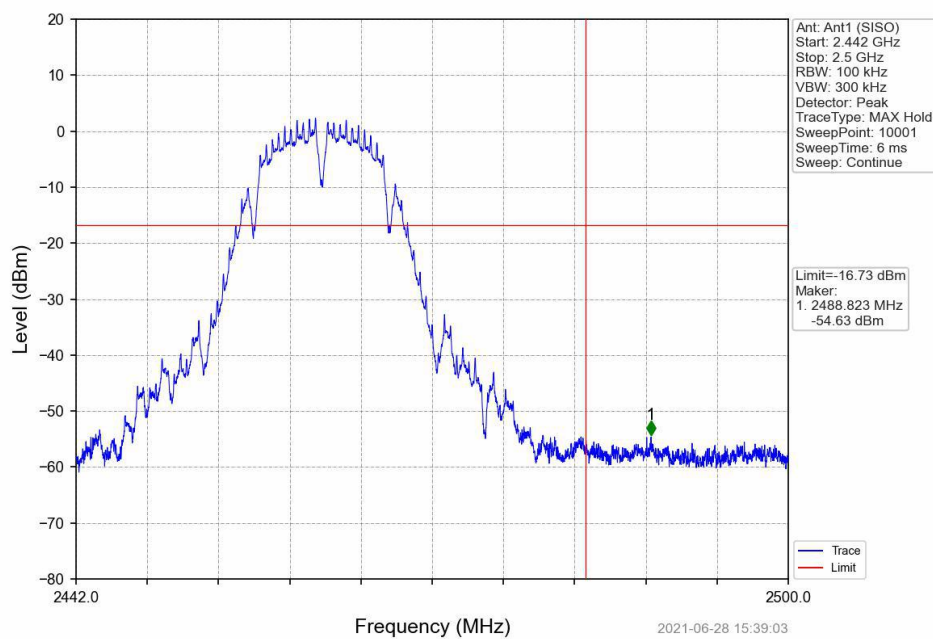
5.2.2 Test Graph



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

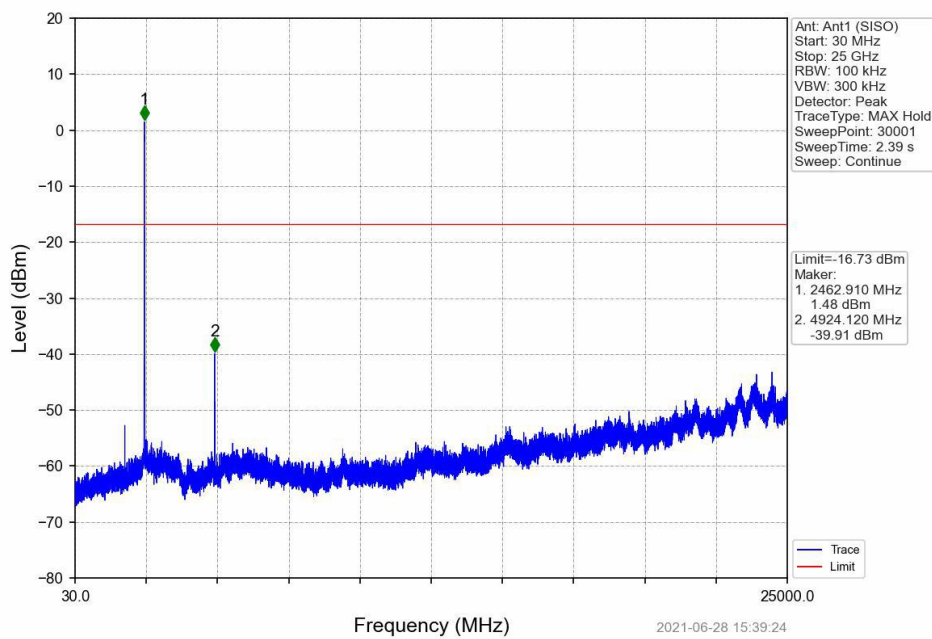


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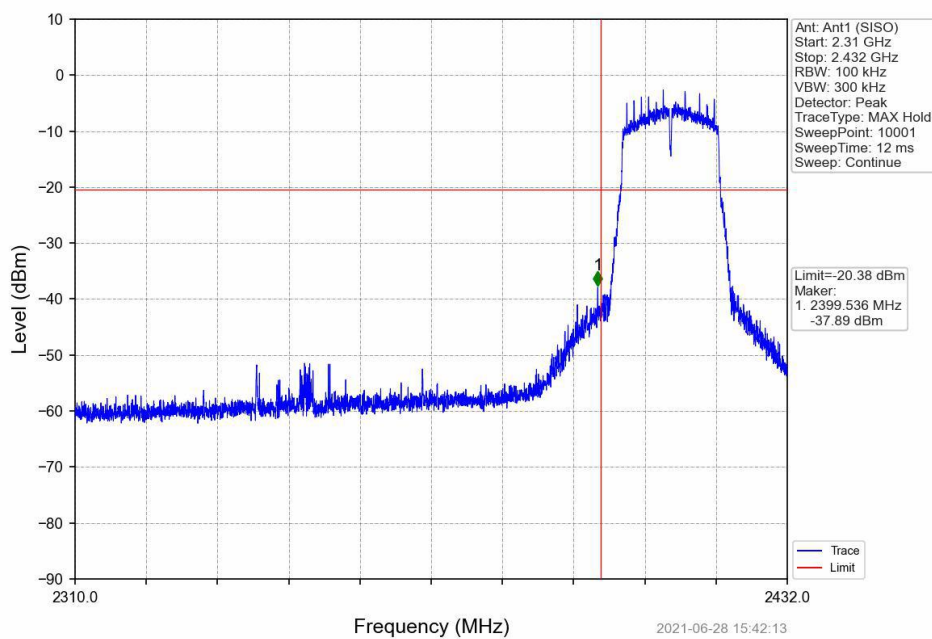
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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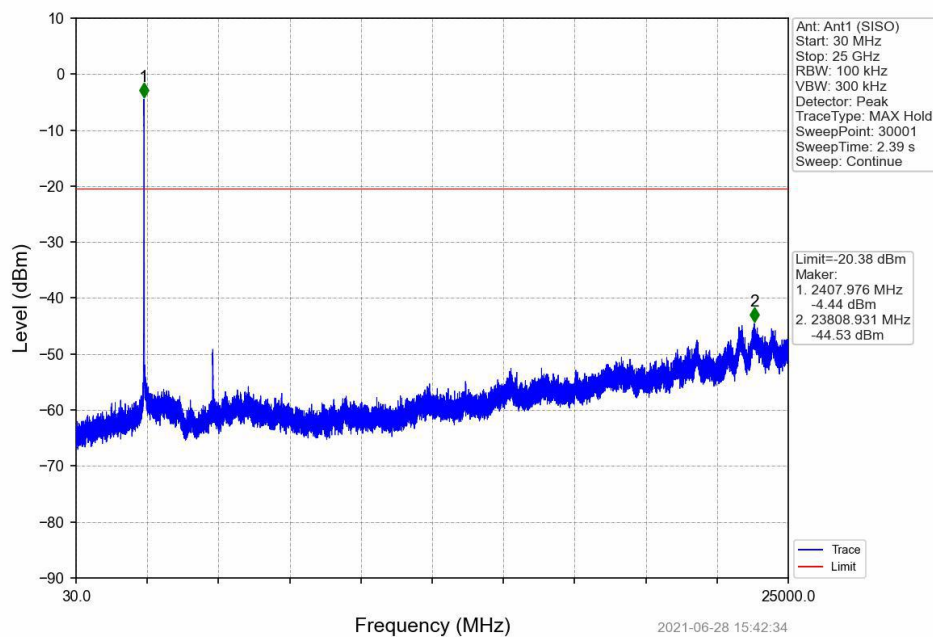


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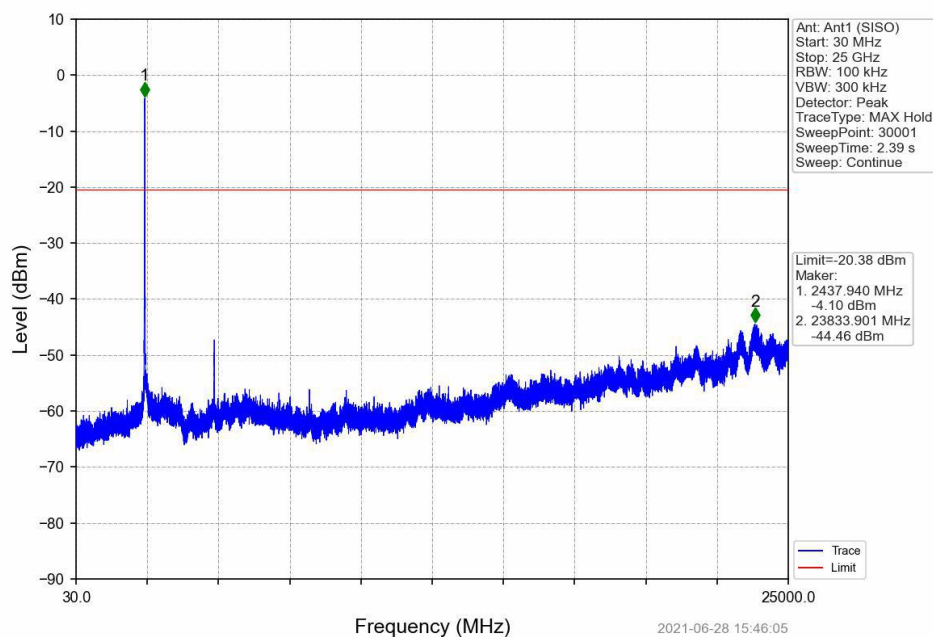
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

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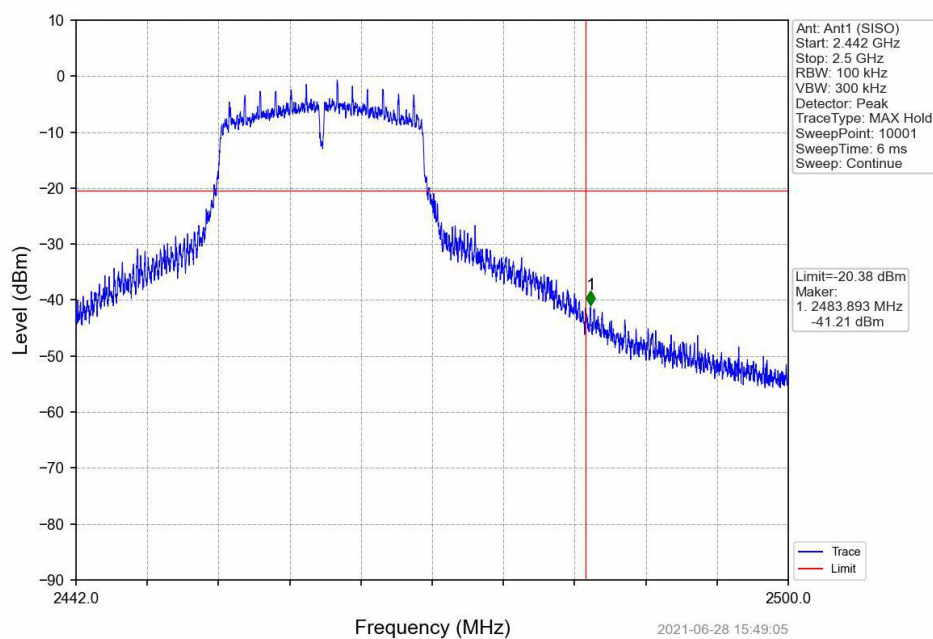


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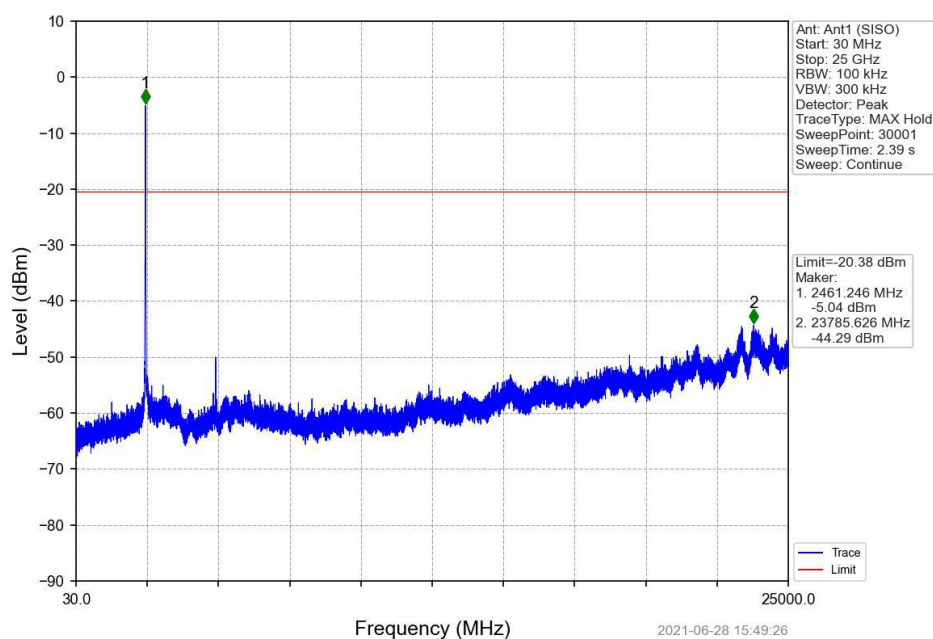
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



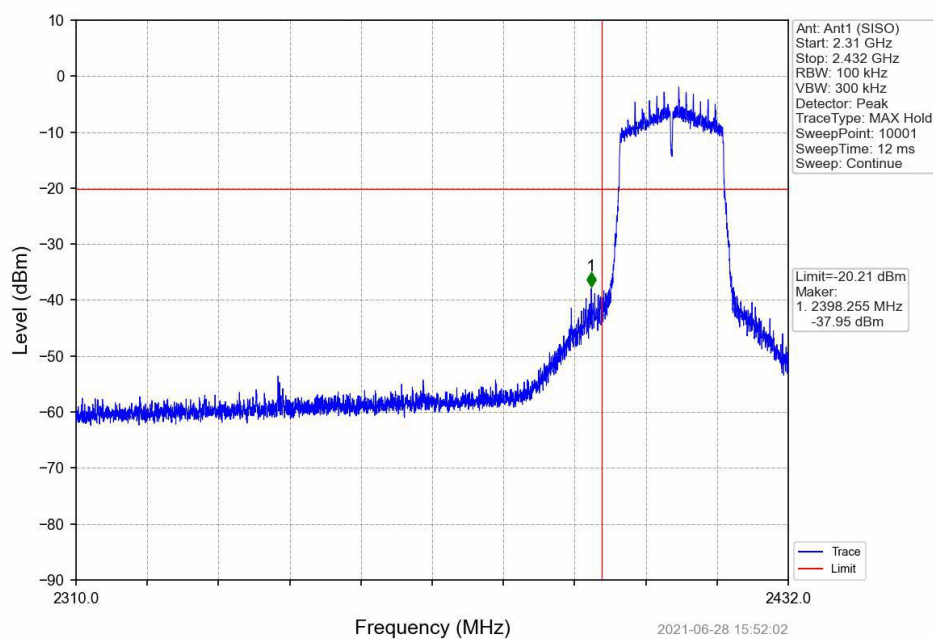
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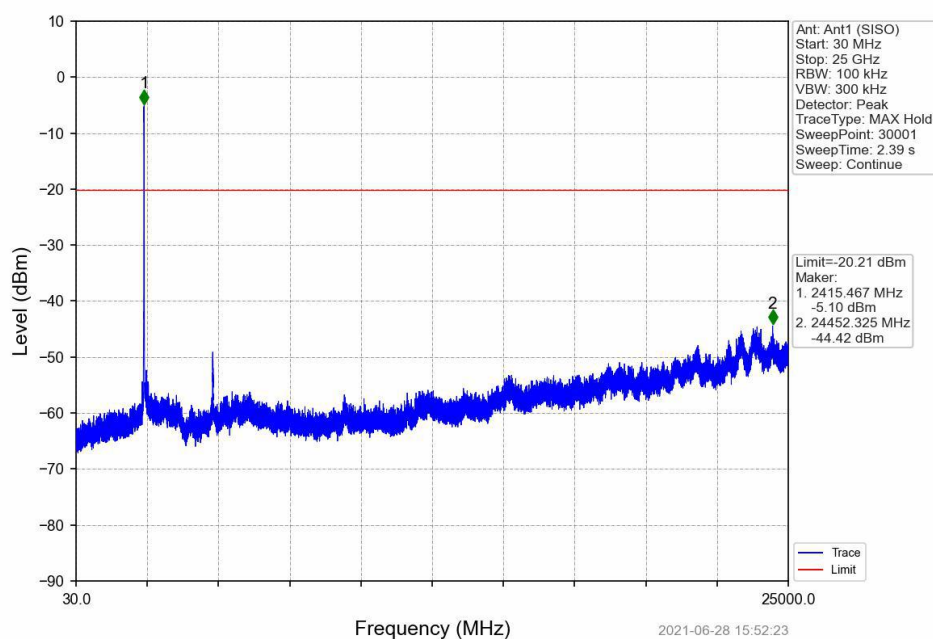
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



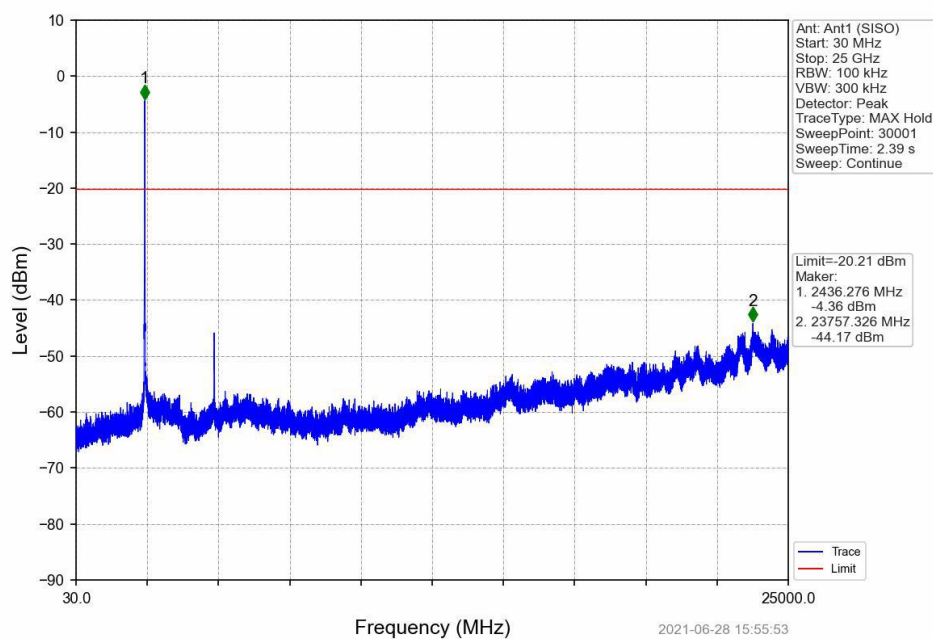
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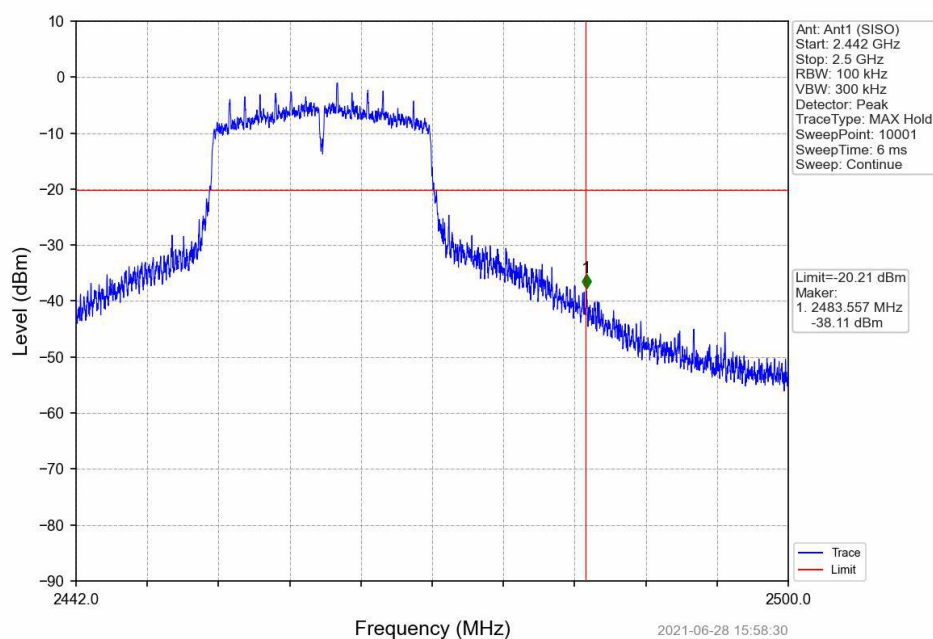
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

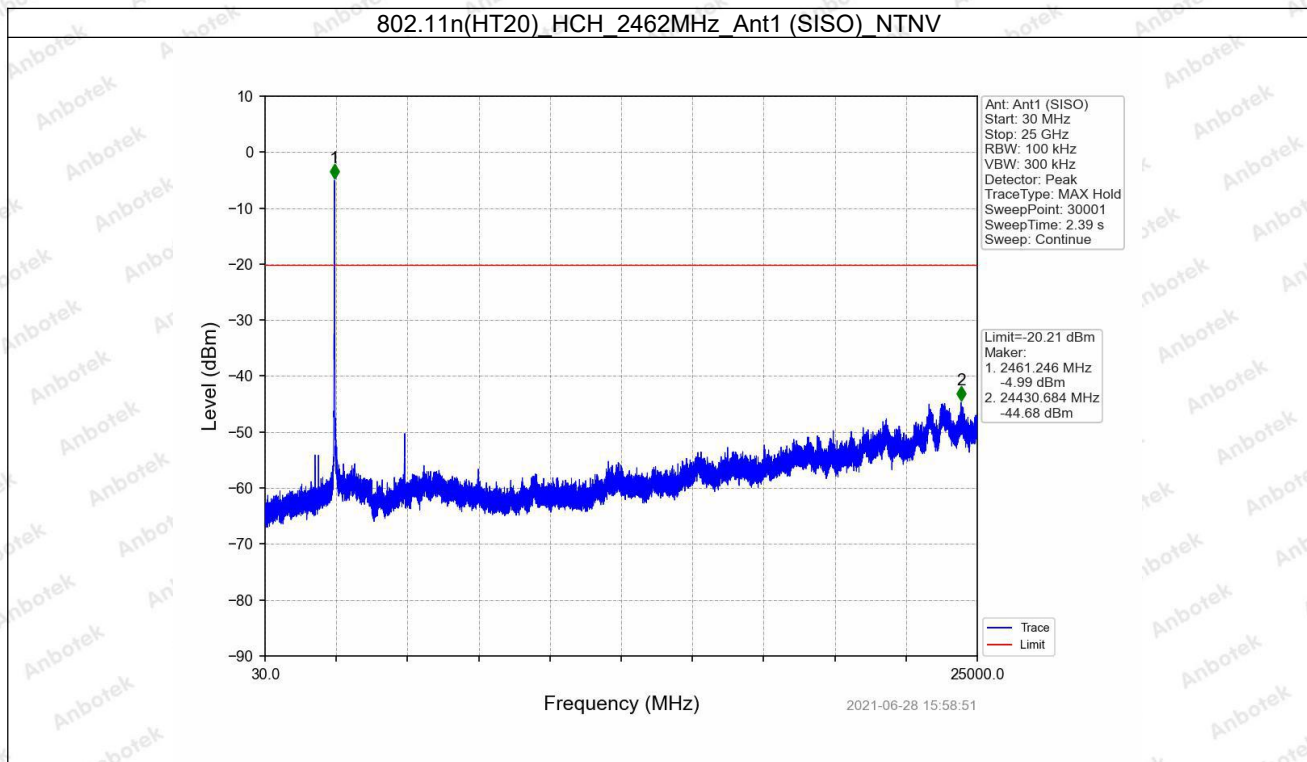


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