

Appendix Test Data

Project No.:	18220WC10110602	Test Date:	2021.6.26
Test Engineer:	<i>Jonny He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.2 %
Pressure:	1012 hPa		

1. Duty Cycle

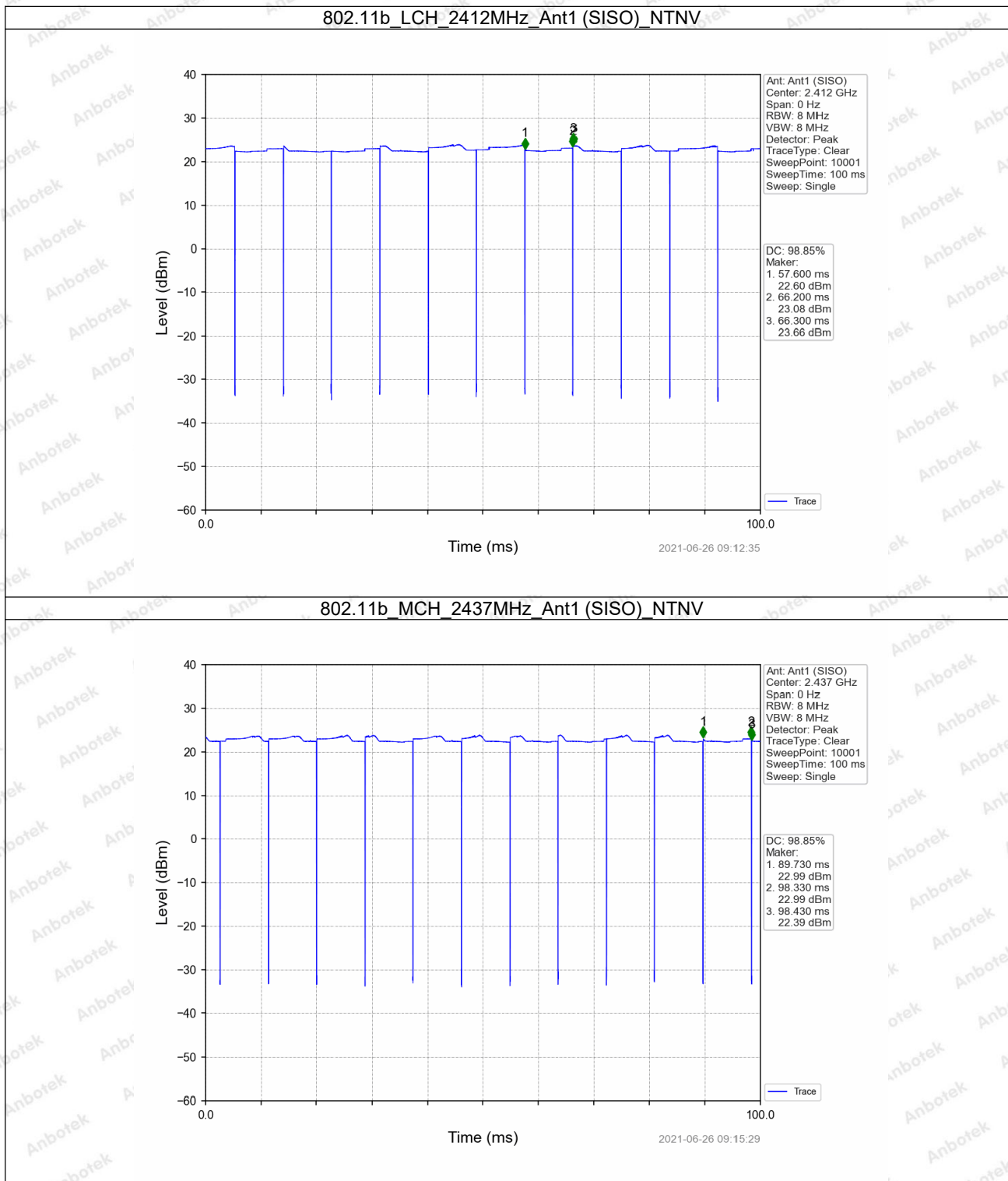
1.1 Ant1

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	/	/	8.60	8.70	98.85	0.05	0.11
		2437	/	/	8.60	8.70	98.85	0.05	0.11
		2462	/	/	8.60	8.70	98.85	0.05	0.11
802.11g	SISO	2412	/	/	1.43	1.53	93.45	0.29	0.00
		2437	/	/	1.43	1.53	93.39	0.30	0.10
		2462	/	/	1.43	1.53	93.45	0.29	0.00
802.11n (HT20)	SISO	2412	/	/	1.34	1.44	93.04	0.31	0.01
		2437	/	/	1.33	1.44	93.03	0.31	0.01
		2462	/	/	1.33	1.44	93.03	0.31	0.10

Note1: Only for Report Use

1.1.2 Test Graph



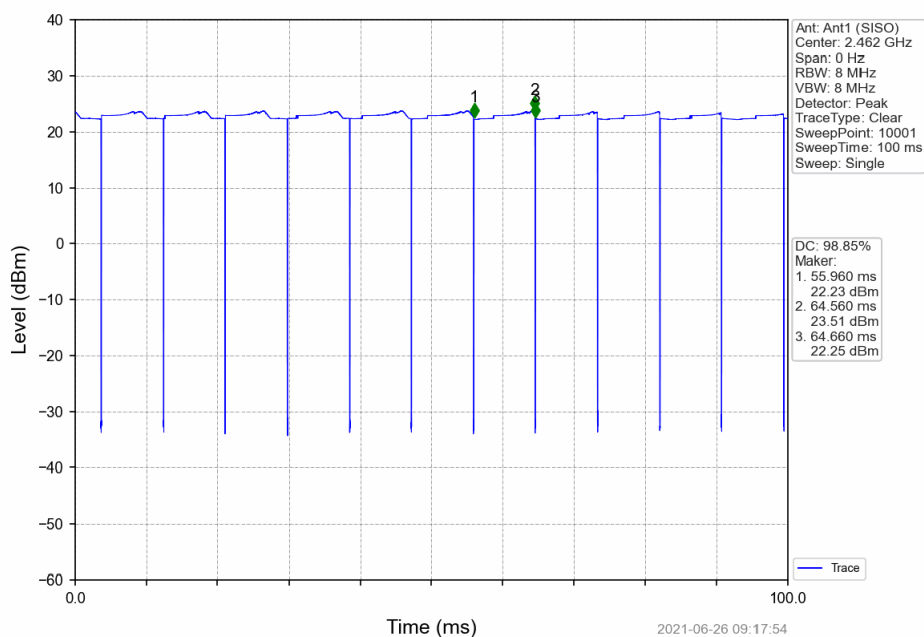
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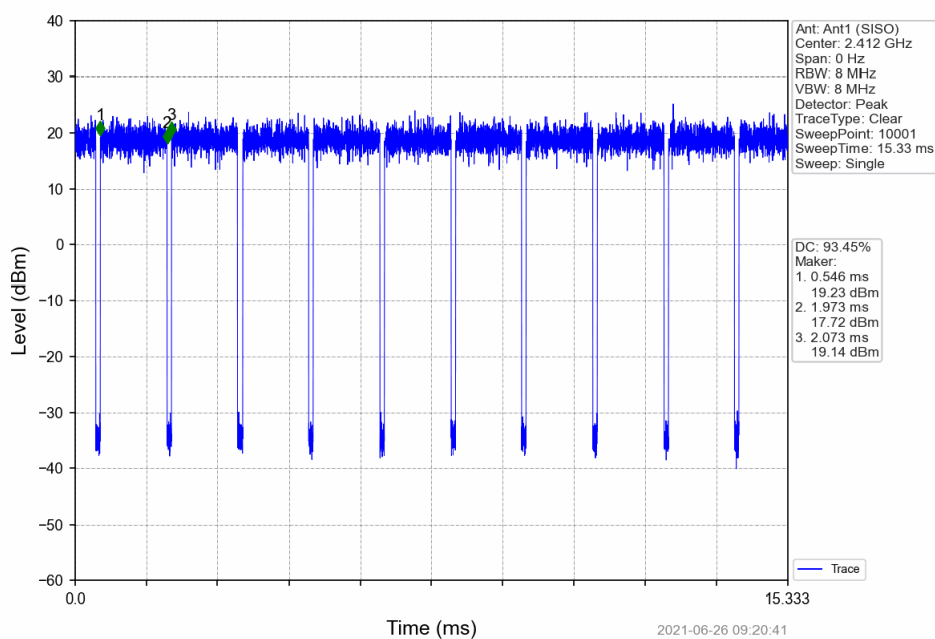
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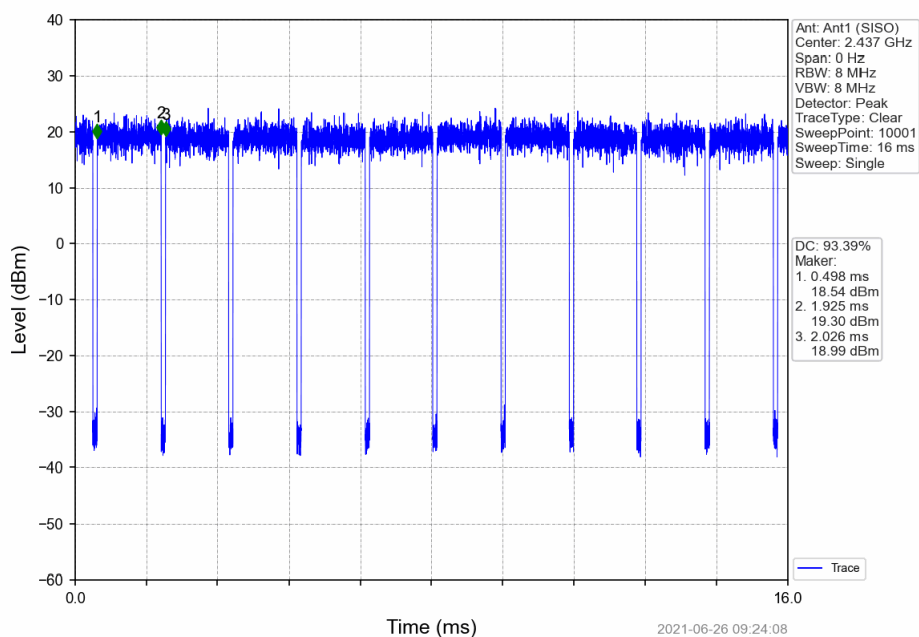
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



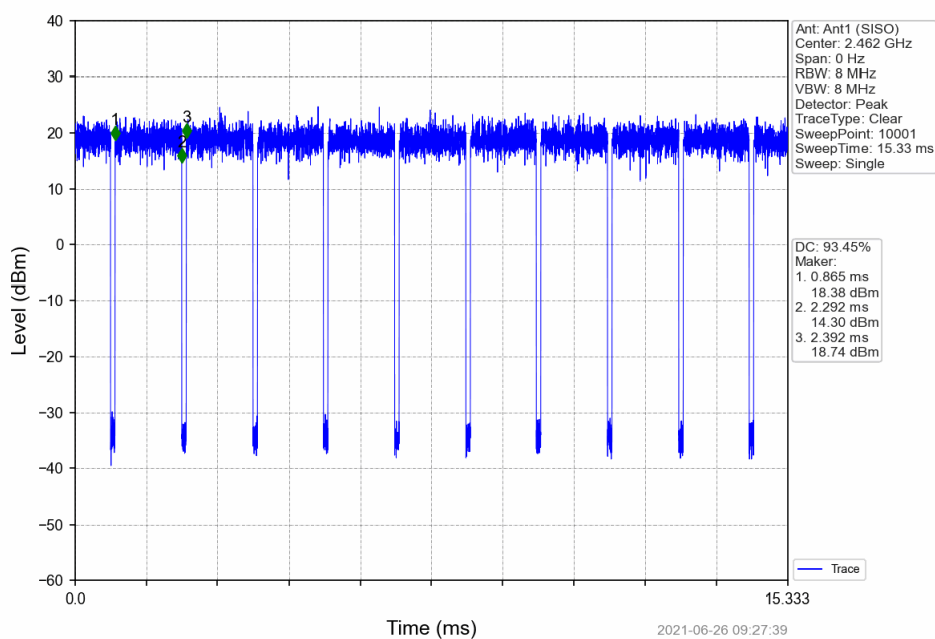
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



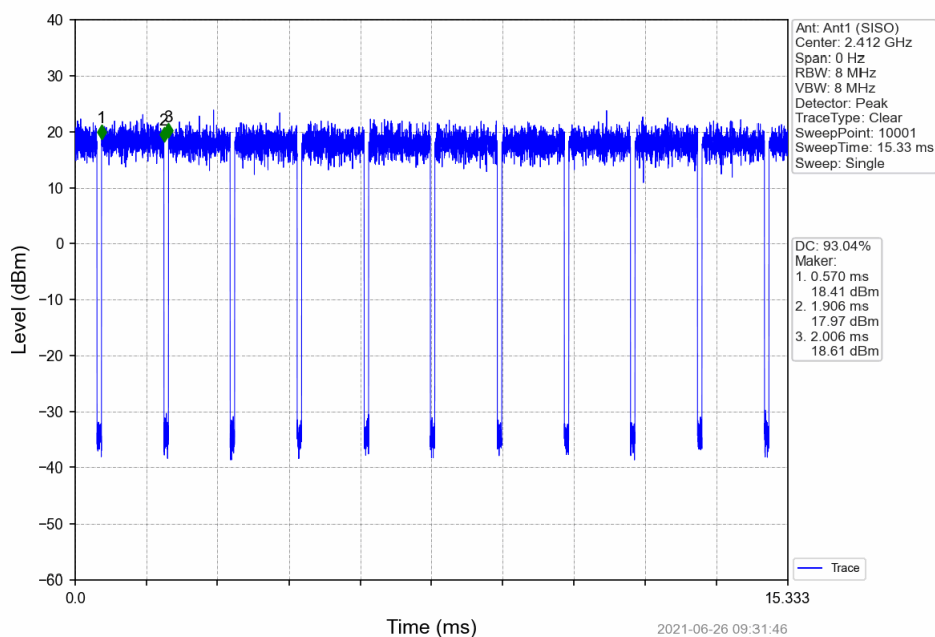
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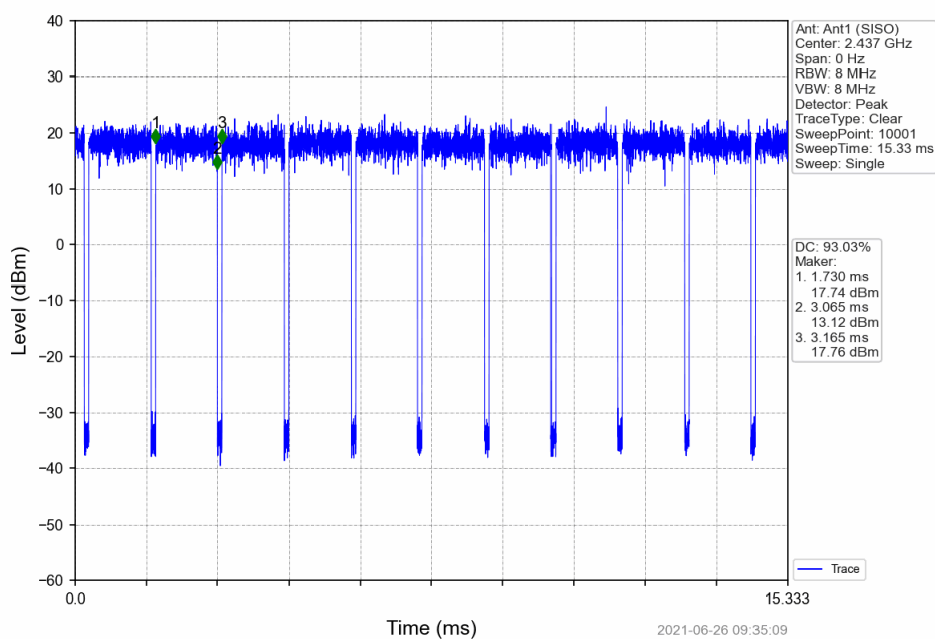
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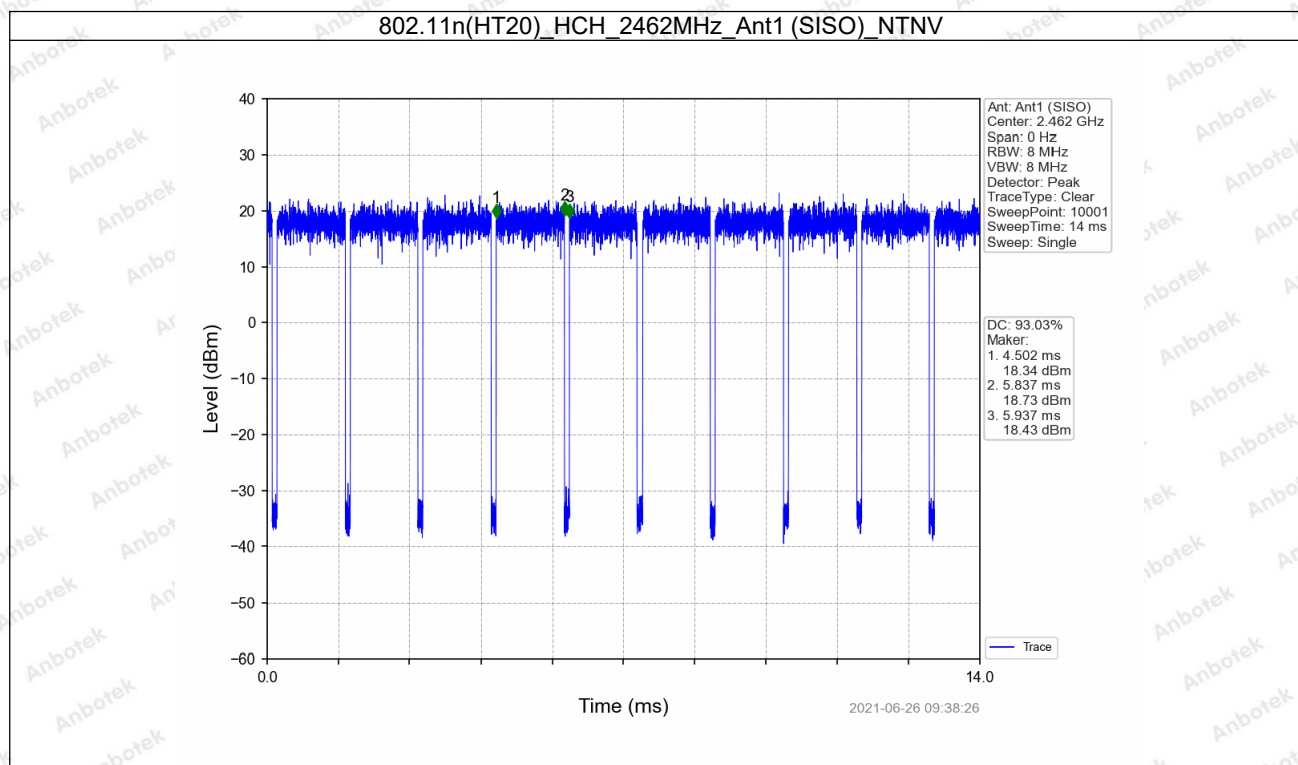
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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2. Bandwidth

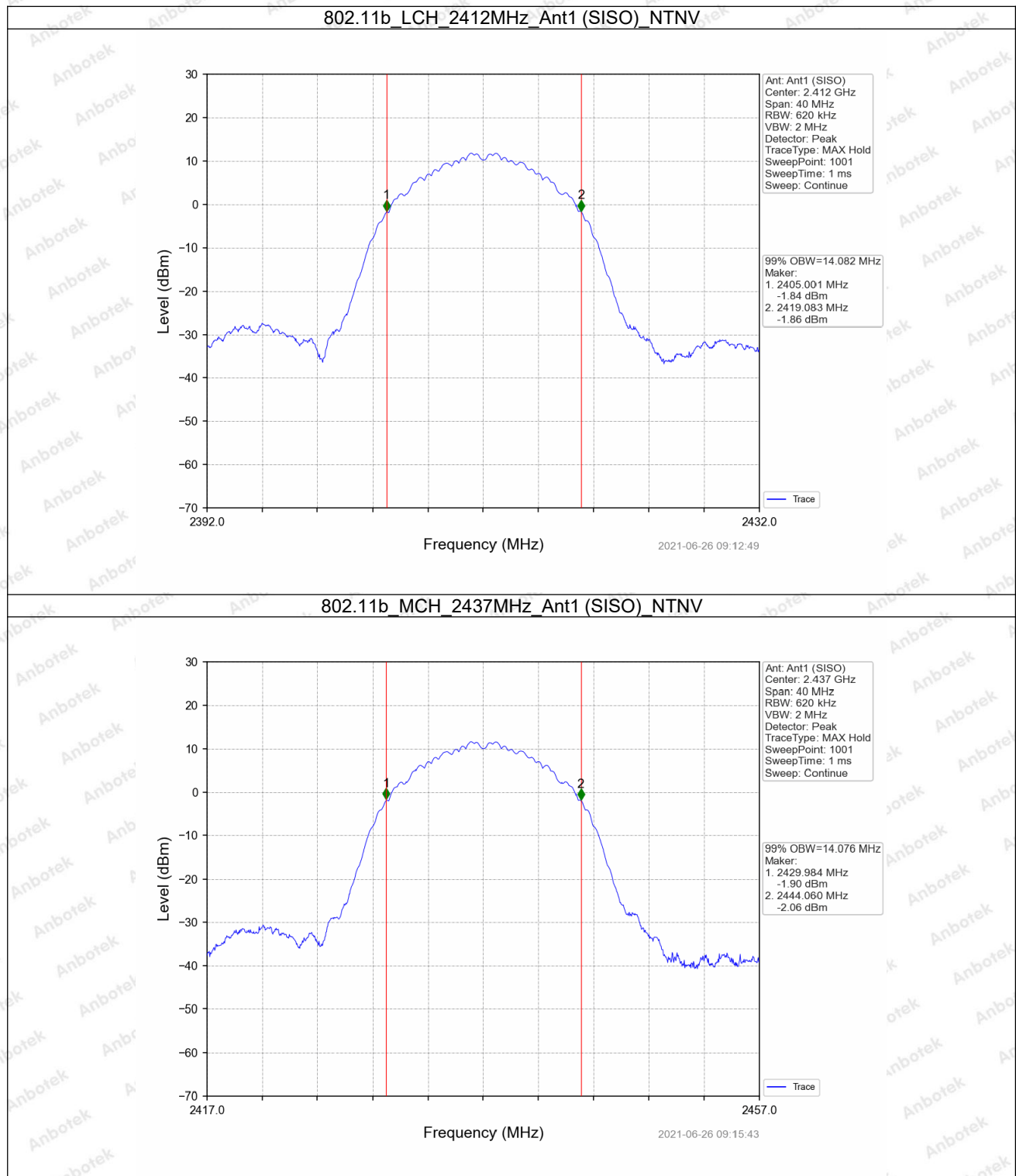
2.1 OBW

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	14.08	/	Note1
		2437	/	/	1	14.08	/	Note1
		2462	/	/	1	14.08	/	Note1
802.11g	SISO	2412	/	/	1	17.28	/	Note1
		2437	/	/	1	17.27	/	Note1
		2462	/	/	1	17.32	/	Note1
802.11n (HT20)	SISO	2412	/	/	1	18.29	/	Note1
		2437	/	/	1	18.29	/	Note1
		2462	/	/	1	18.30	/	Note1

Note1: Only for Report Use

2.1.2 Test Graph



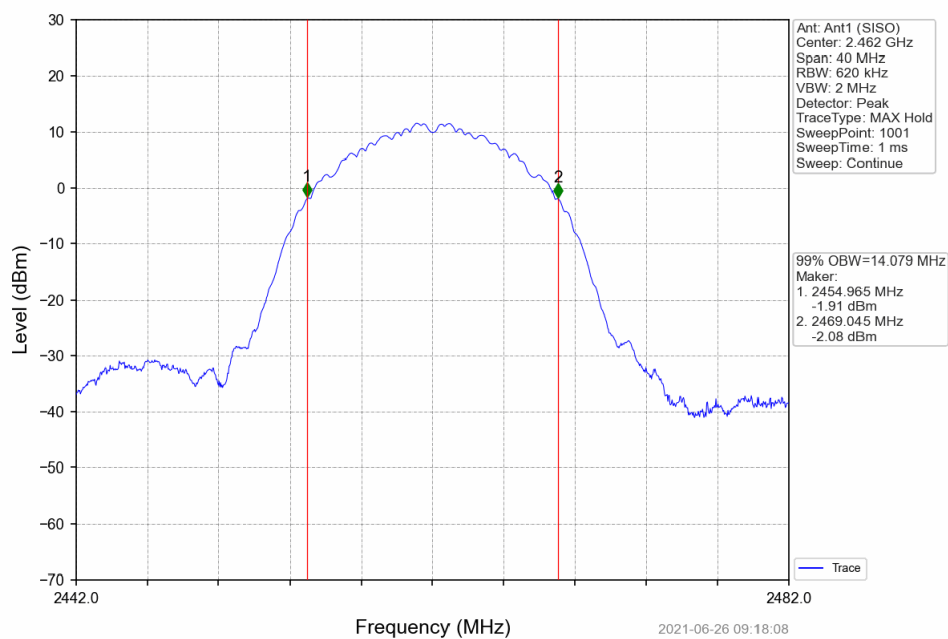
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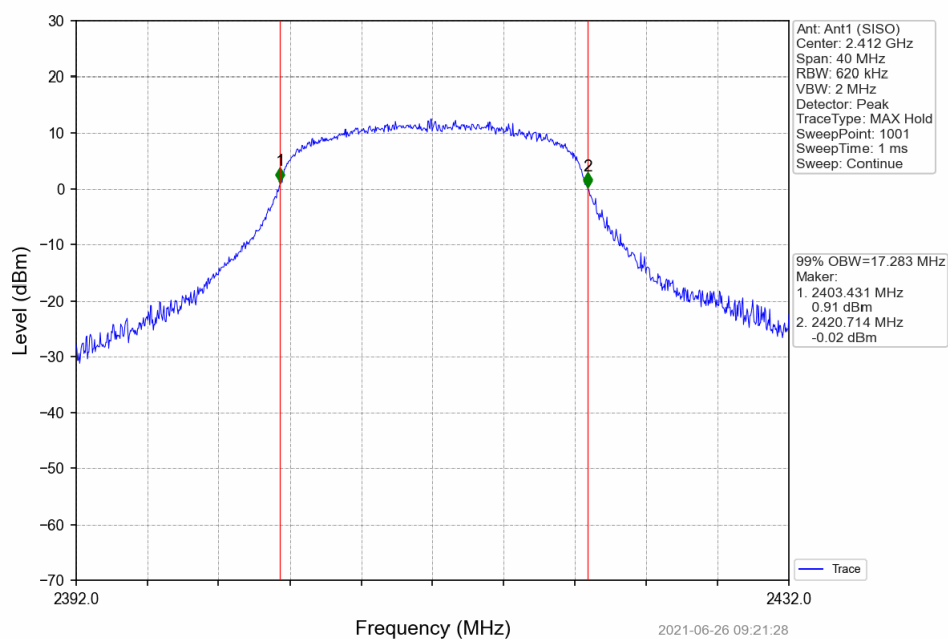
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

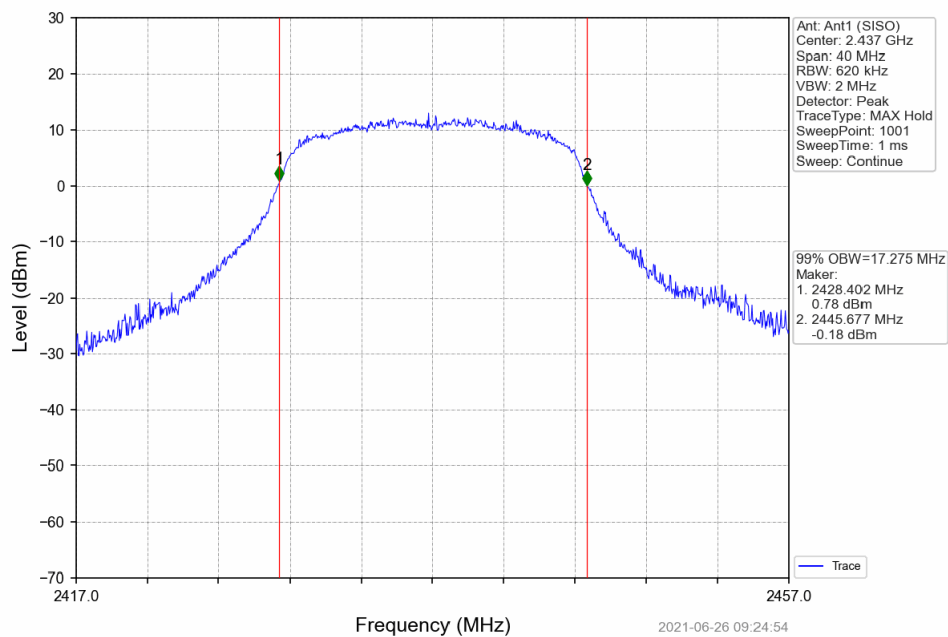


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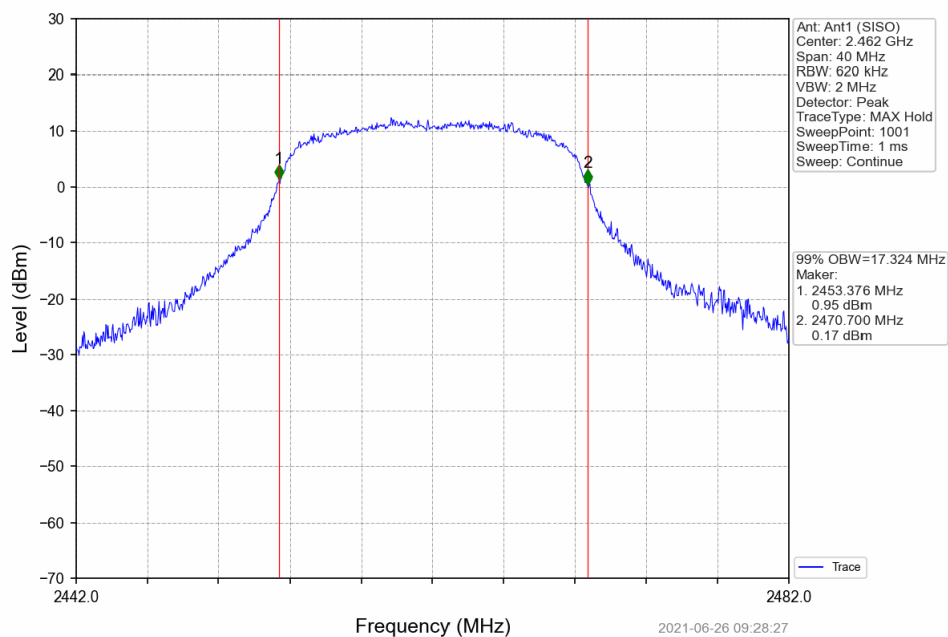
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



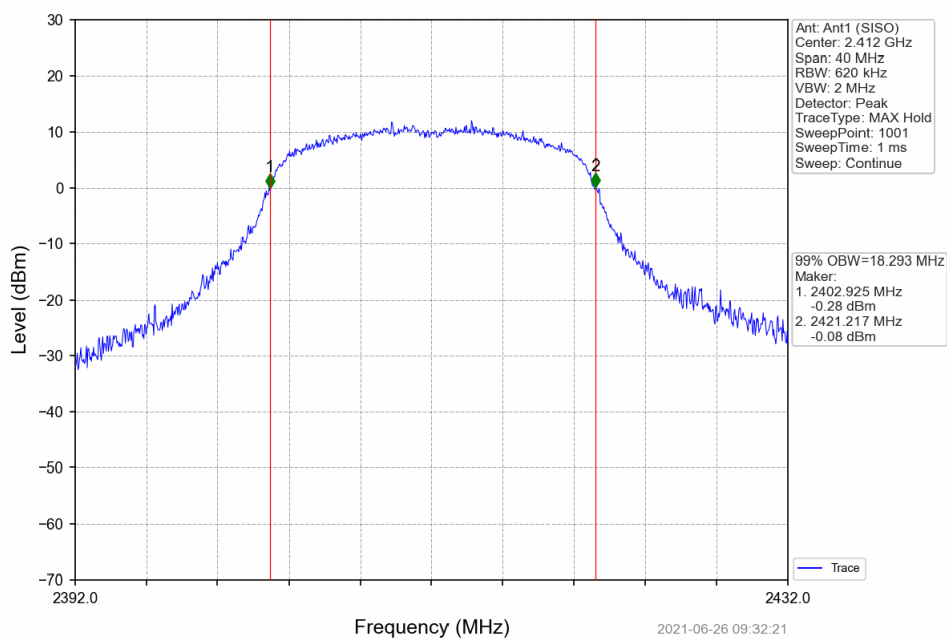
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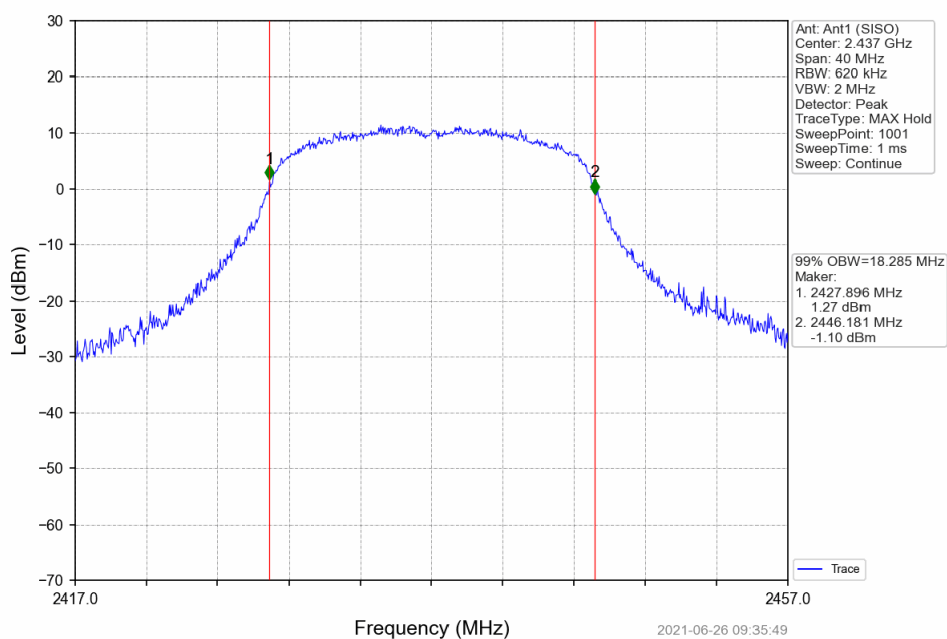
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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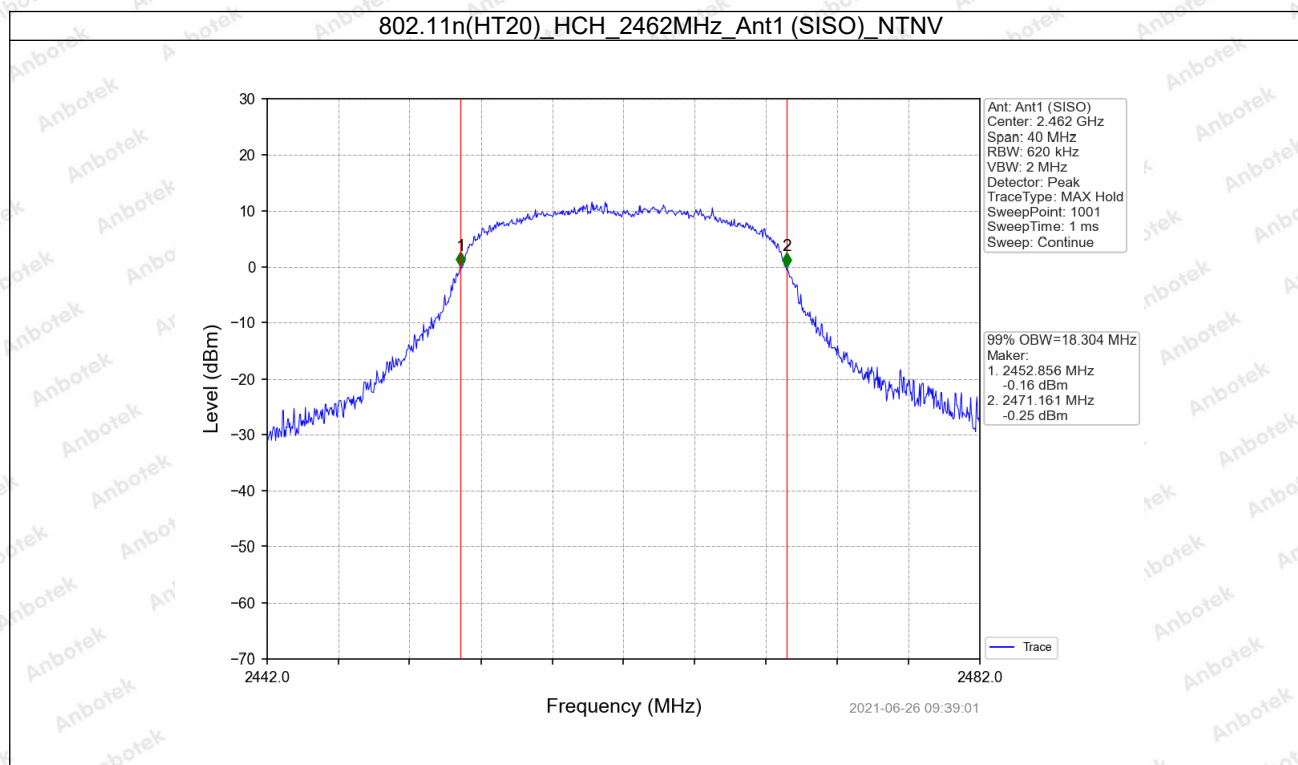
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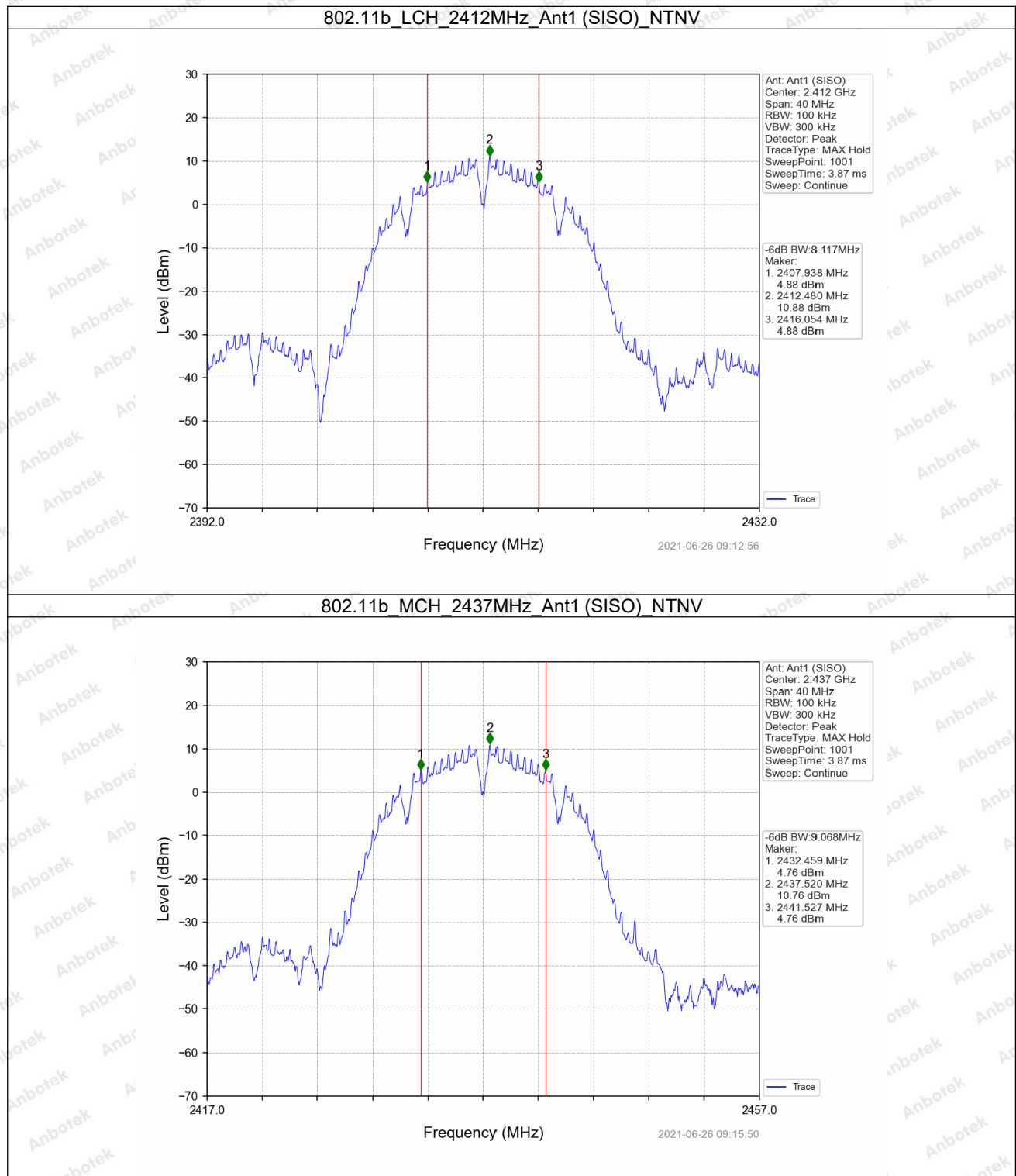
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	6dB Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	1	8.12	≥ 0.5	Pass
		2437	/	/	1	9.07	≥ 0.5	Pass
		2462	/	/	1	9.09	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	15.14	≥ 0.5	Pass
		2437	/	/	1	15.16	≥ 0.5	Pass
		2462	/	/	1	15.12	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	15.15	≥ 0.5	Pass
		2437	/	/	1	15.13	≥ 0.5	Pass
		2462	/	/	1	15.15	≥ 0.5	Pass

2.2.2 Test Graph



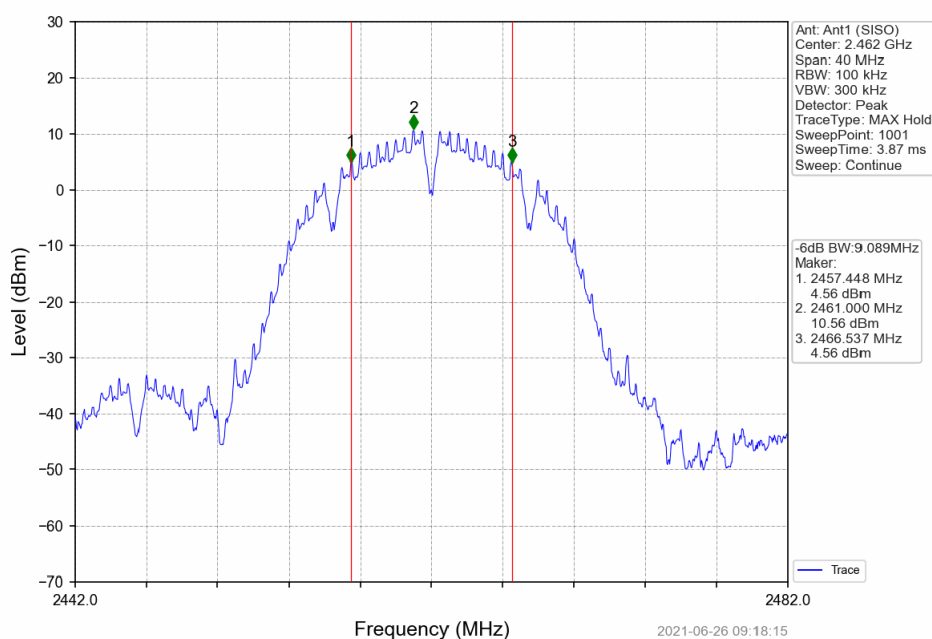
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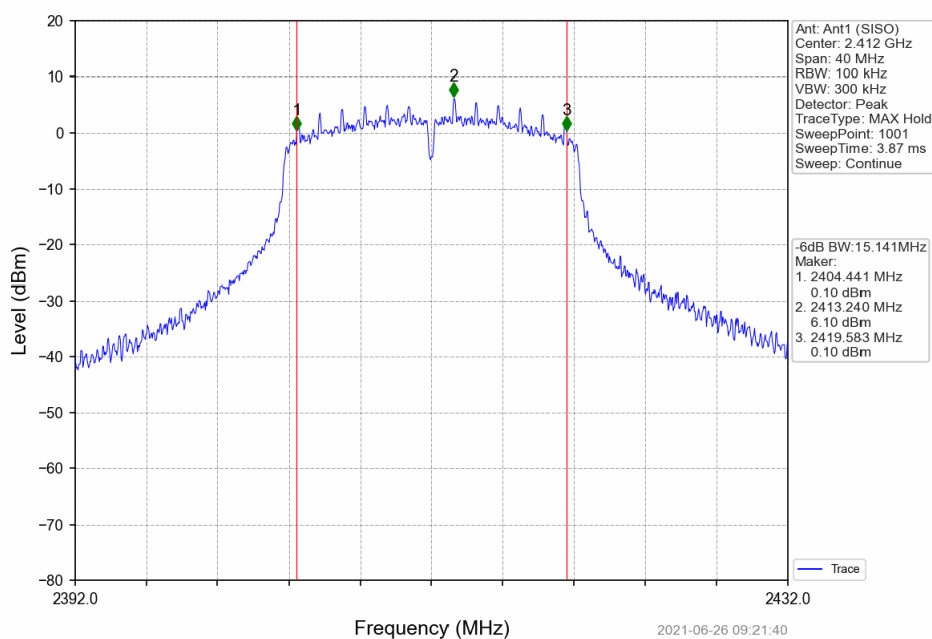
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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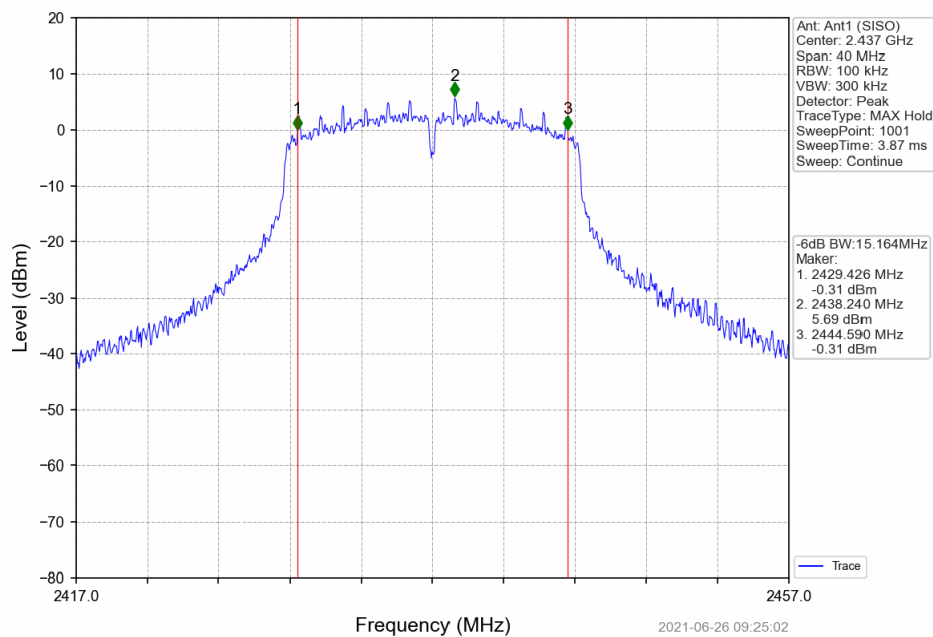


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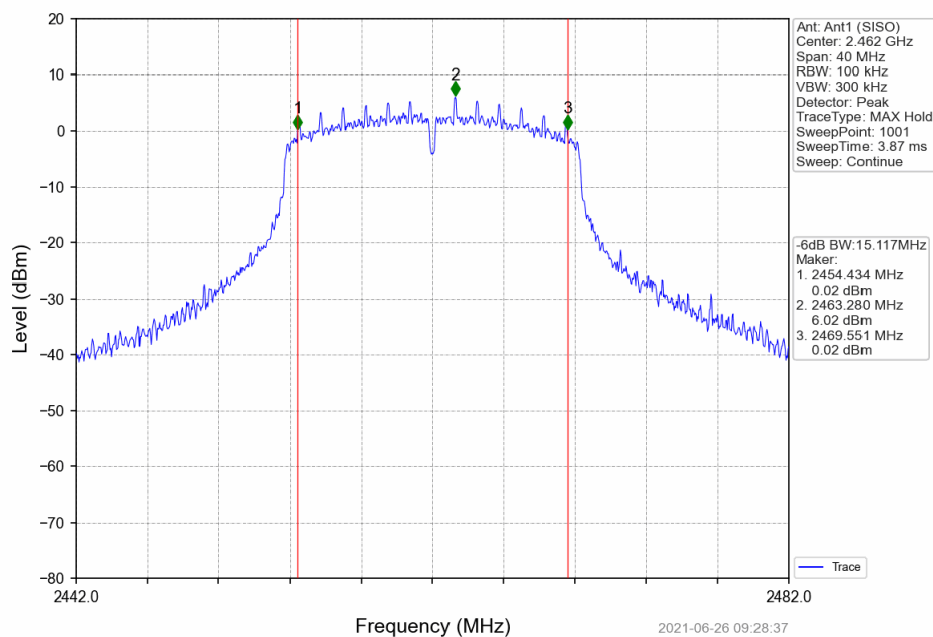
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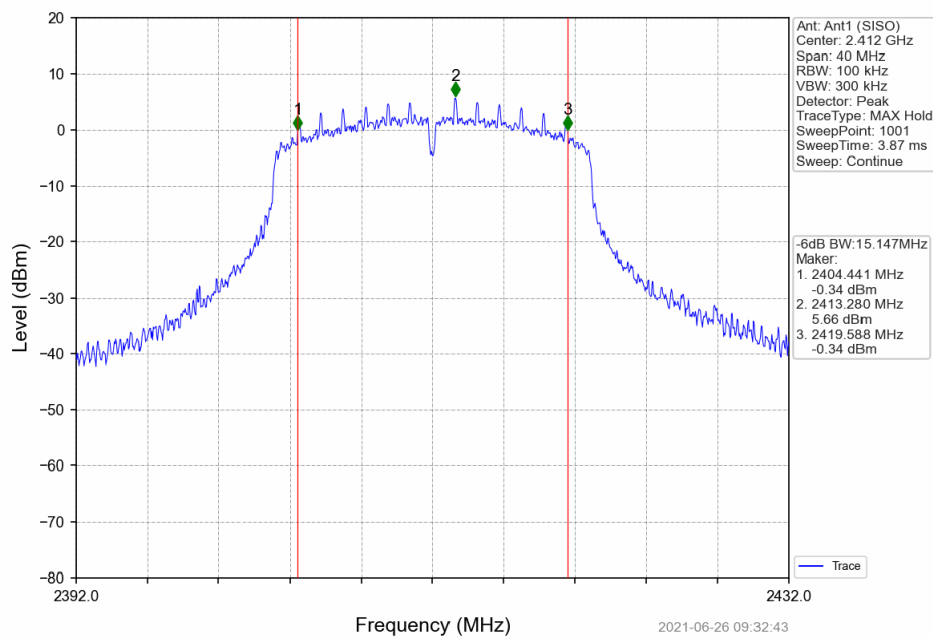
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



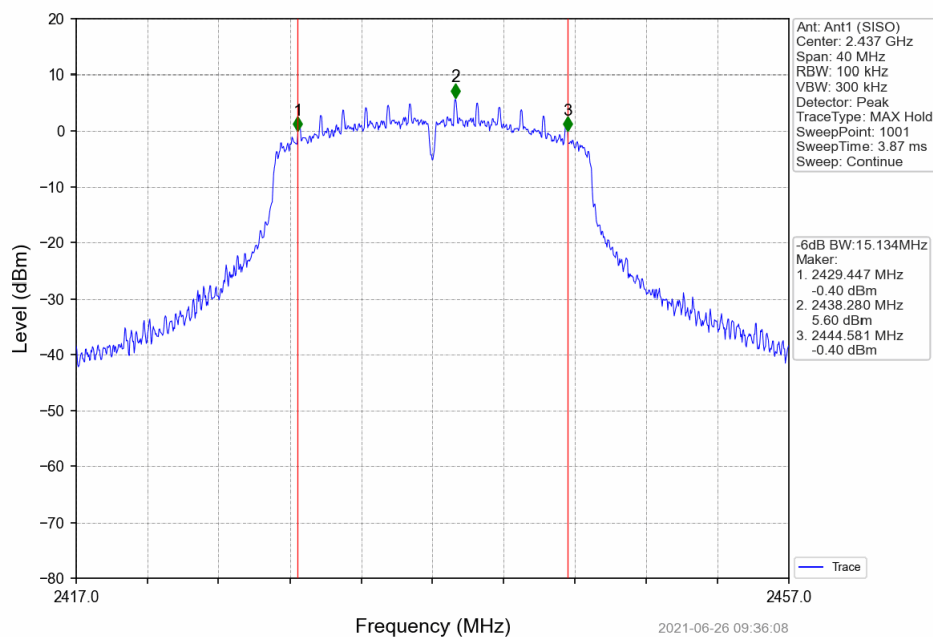
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

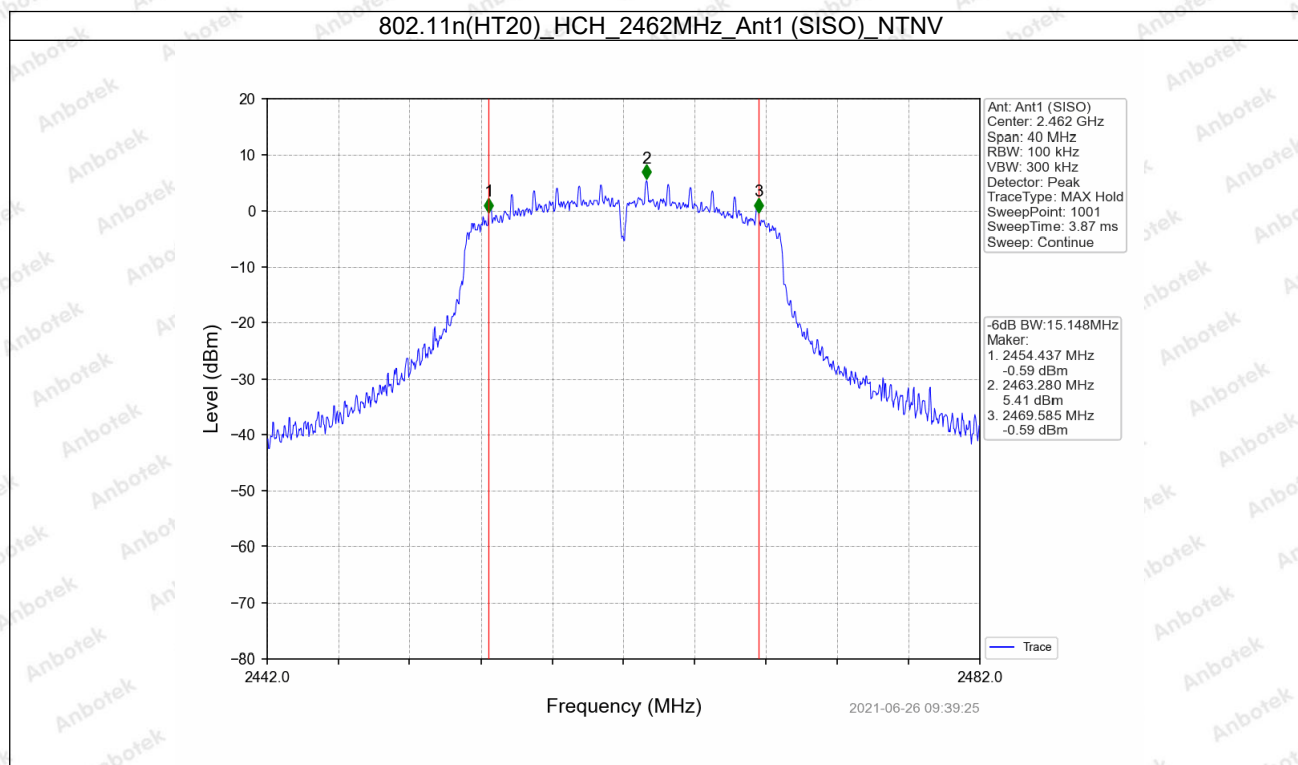


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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	/	/	21.39	<=30	Pass
		2437	/	/	21.48	<=30	Pass
		2462	/	/	21.43	<=30	Pass
802.11g	SISO	2412	/	/	23.77	<=30	Pass
		2437	/	/	23.90	<=30	Pass
		2462	/	/	23.80	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	23.06	<=30	Pass
		2437	/	/	23.13	<=30	Pass
		2462	/	/	22.94	<=30	Pass

Note1: Antenna Gain: 0.00dBi;

4. Maximum Power Spectral Density

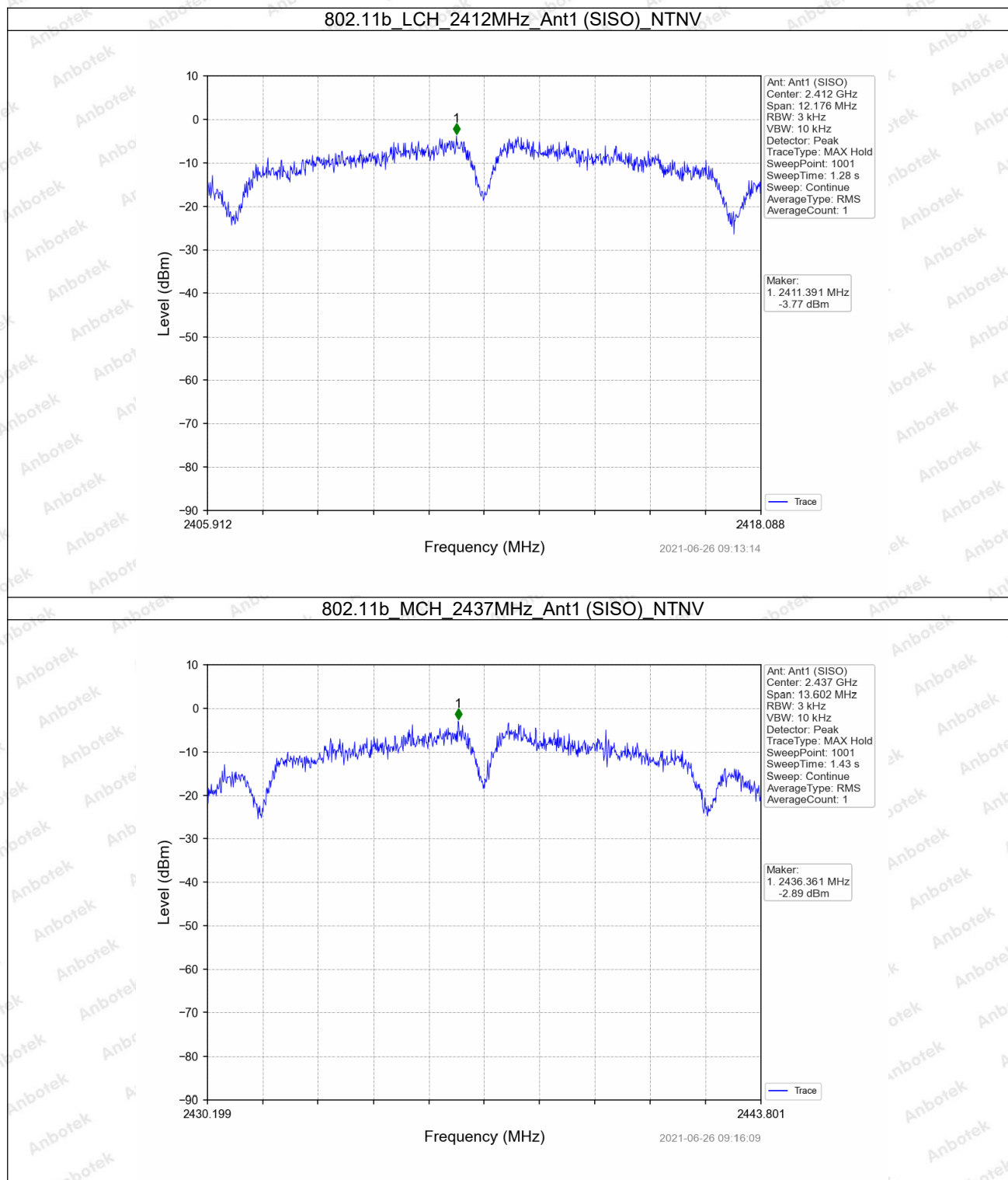
4.1 PSD

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	/	/	-3.77	<=8	Pass
		2437	/	/	-2.89	<=8	Pass
		2462	/	/	-3.01	<=8	Pass
802.11g	SISO	2412	/	/	-8.43	<=8	Pass
		2437	/	/	-8.82	<=8	Pass
		2462	/	/	-8.43	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-9.85	<=8	Pass
		2437	/	/	-9.28	<=8	Pass
		2462	/	/	-9.09	<=8	Pass

Note1: Antenna Gain: 0.00dBi;

4.1.2 Test Graph



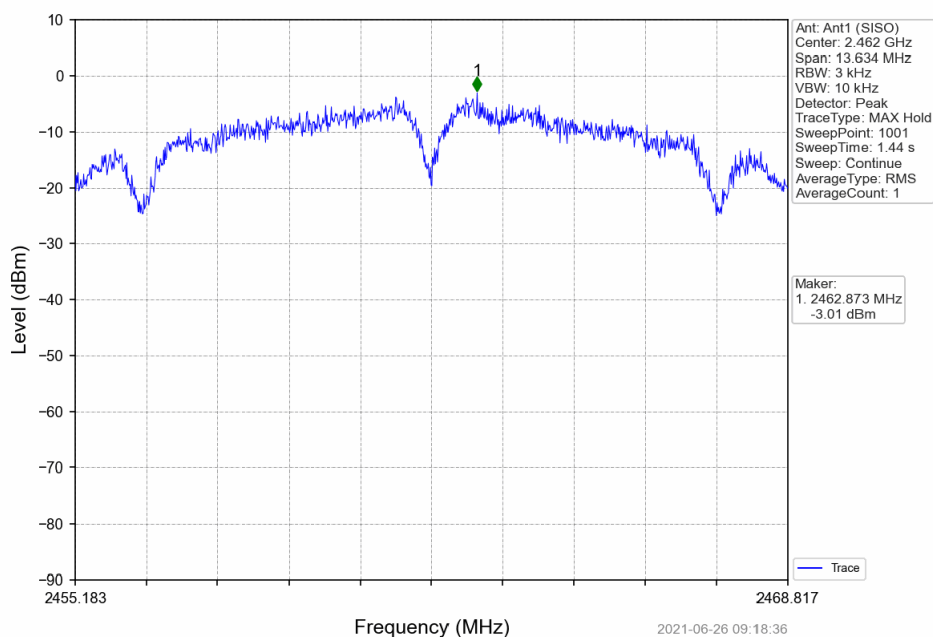
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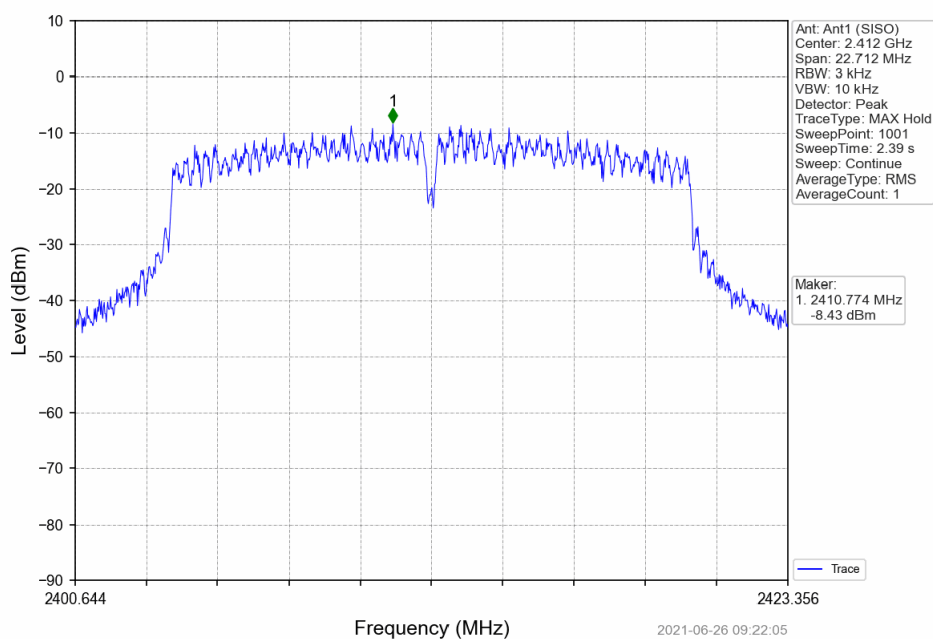
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



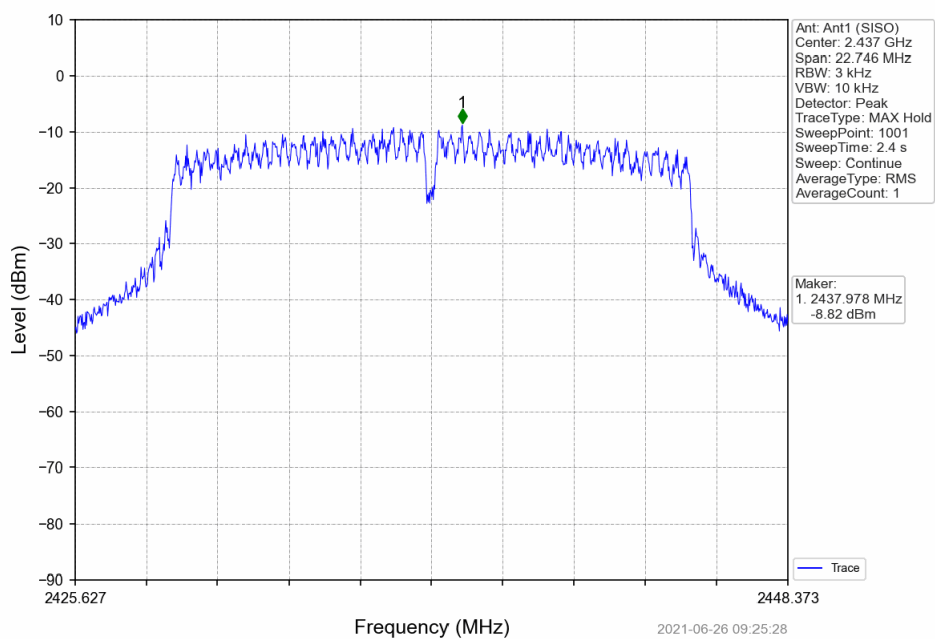
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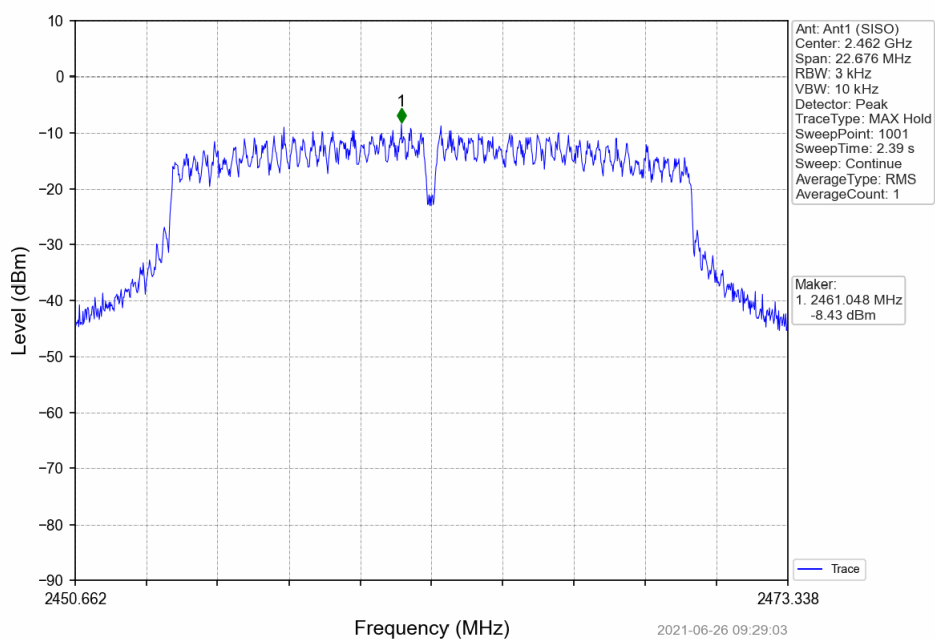
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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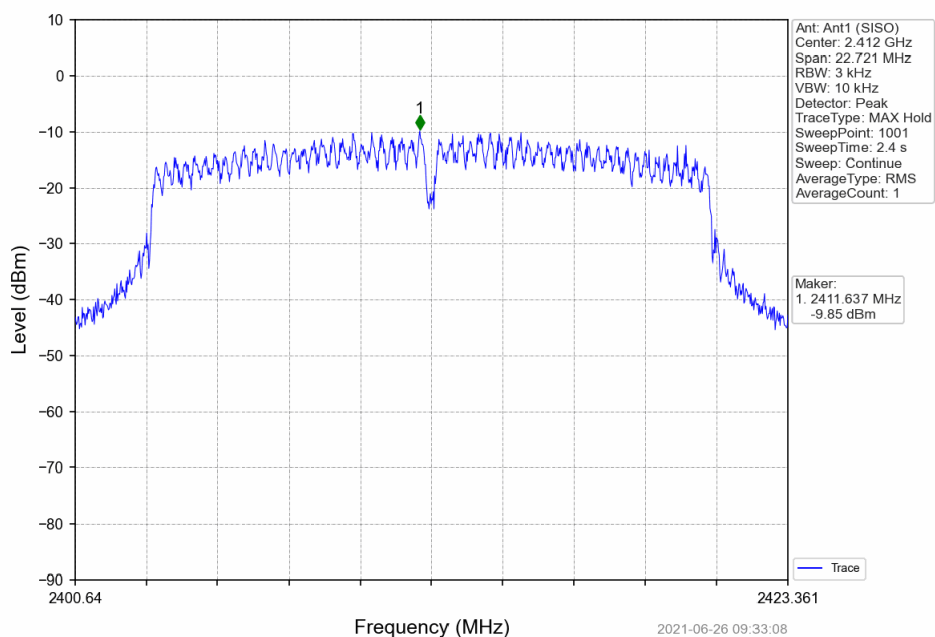


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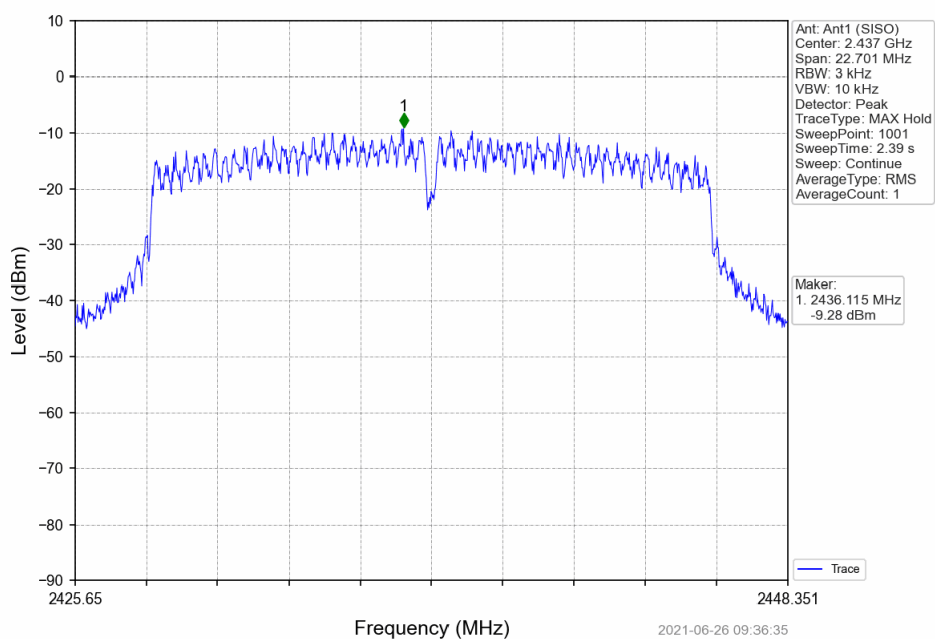
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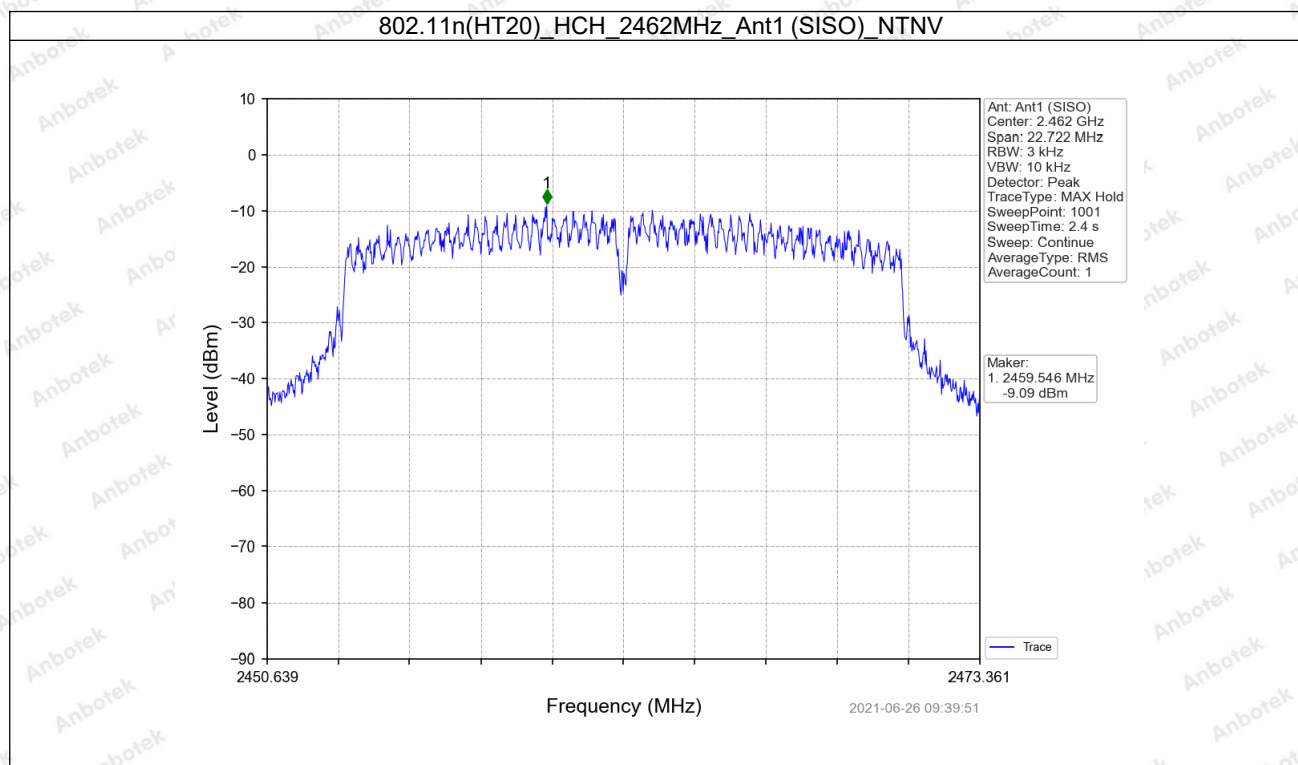
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

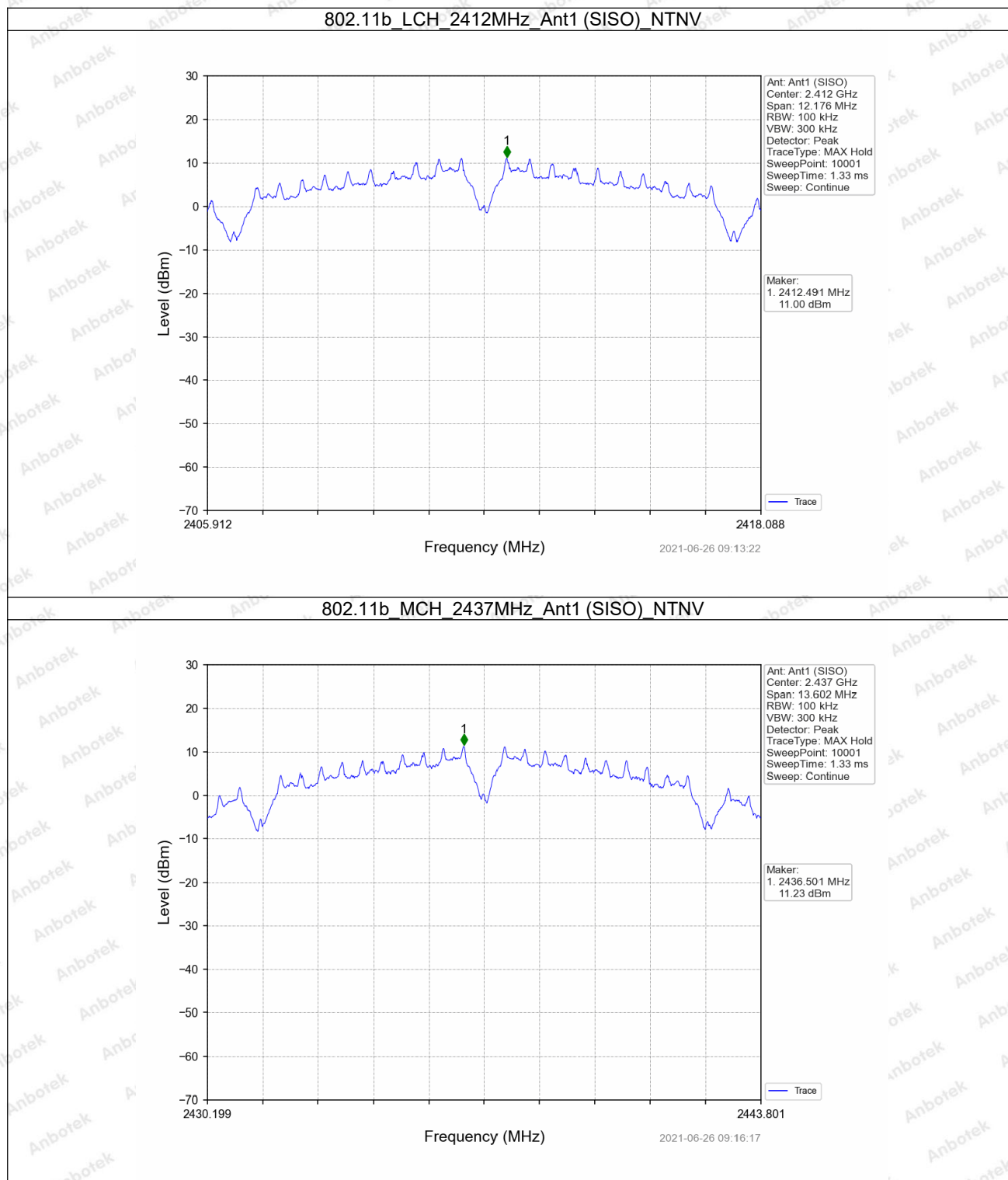
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	11.00	/	/
		2437	/	/	1	11.23	/	/
		2462	/	/	1	11.00	/	/
802.11g	SISO	2412	/	/	1	5.65	/	/
		2437	/	/	1	5.93	/	/
		2462	/	/	1	5.83	/	/
802.11n (HT20)	SISO	2412	/	/	1	5.52	/	/
		2437	/	/	1	5.39	/	/
		2462	/	/	1	5.29	/	/

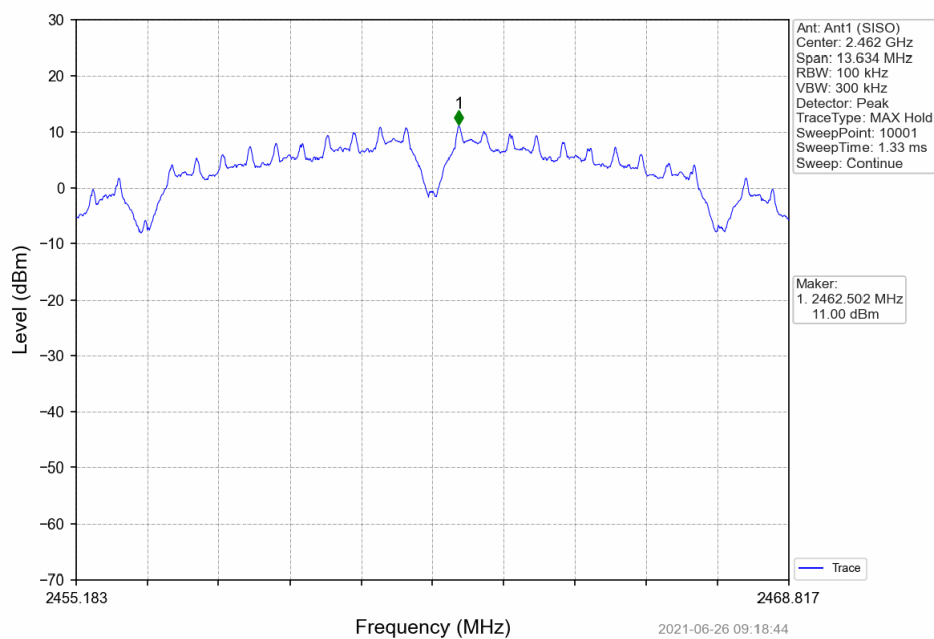
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: Only for Report Use

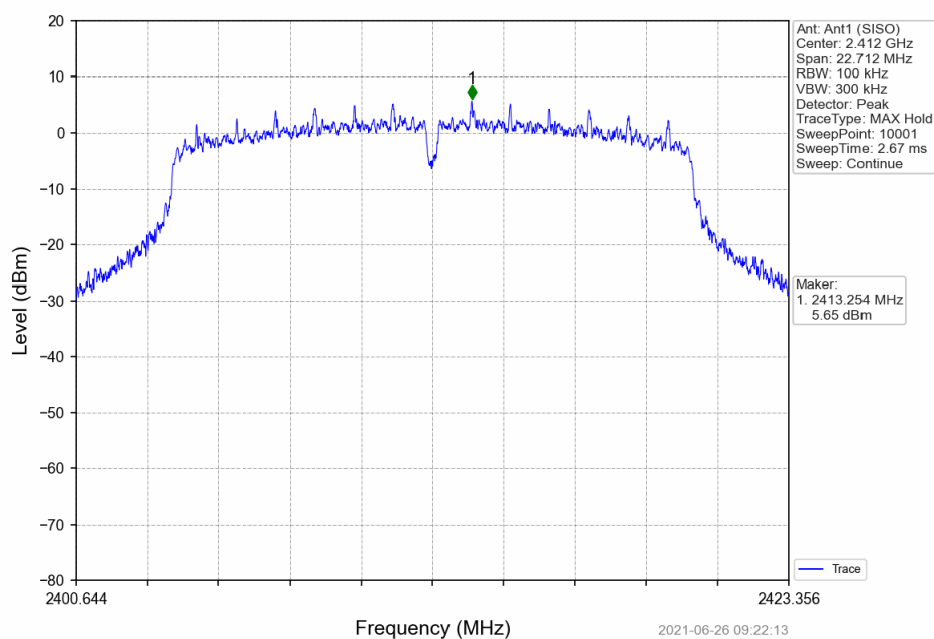
5.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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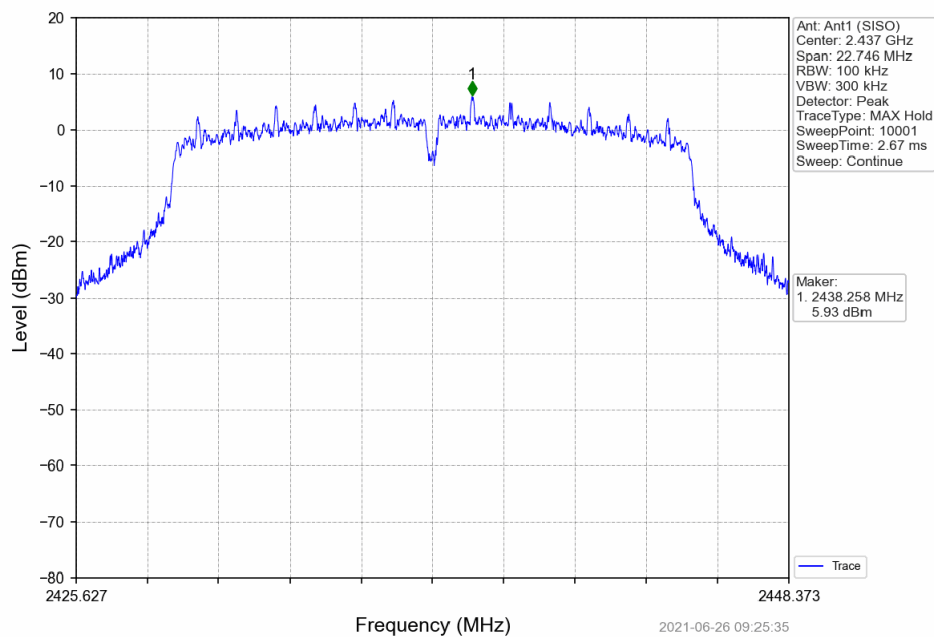


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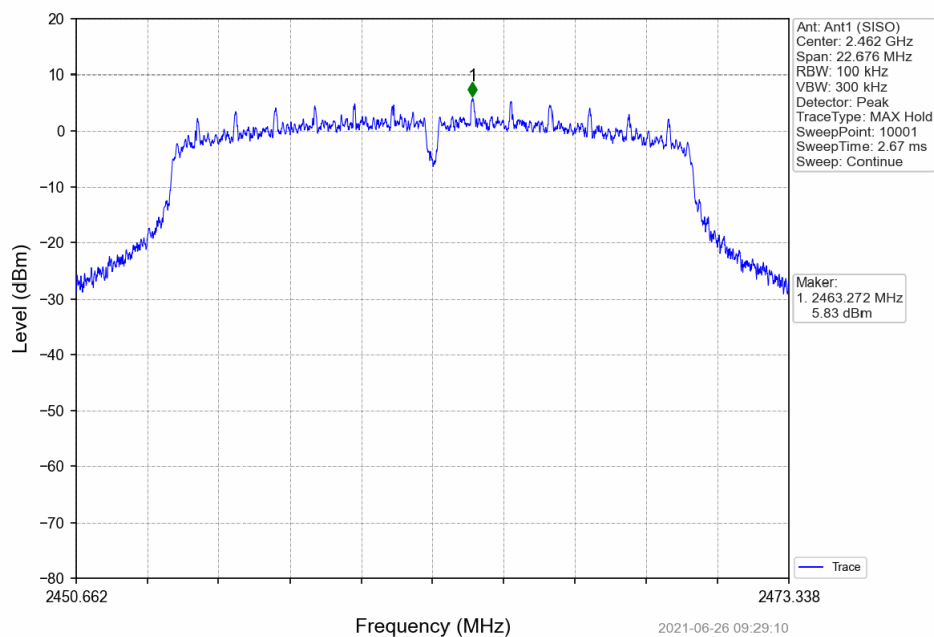
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

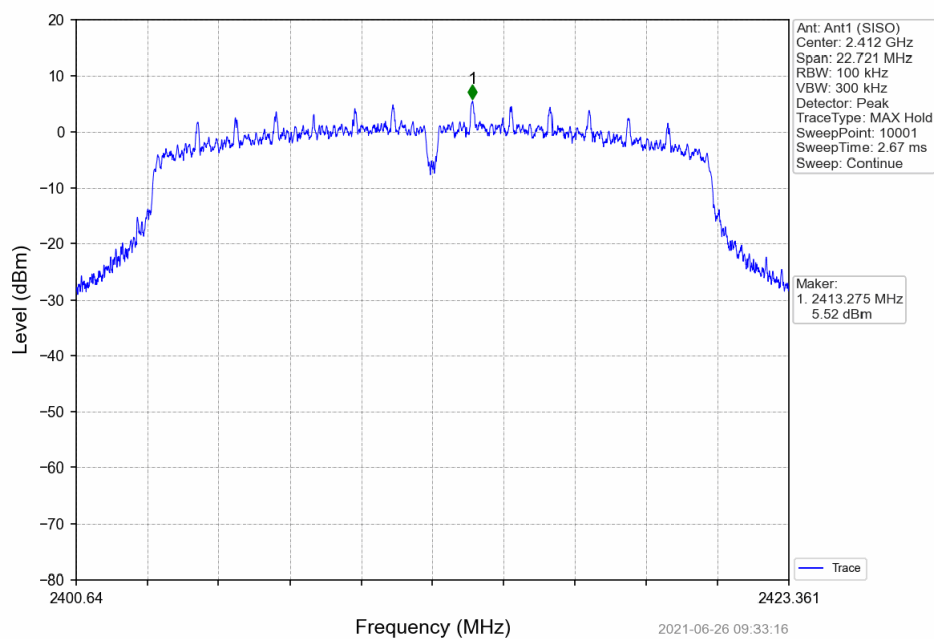


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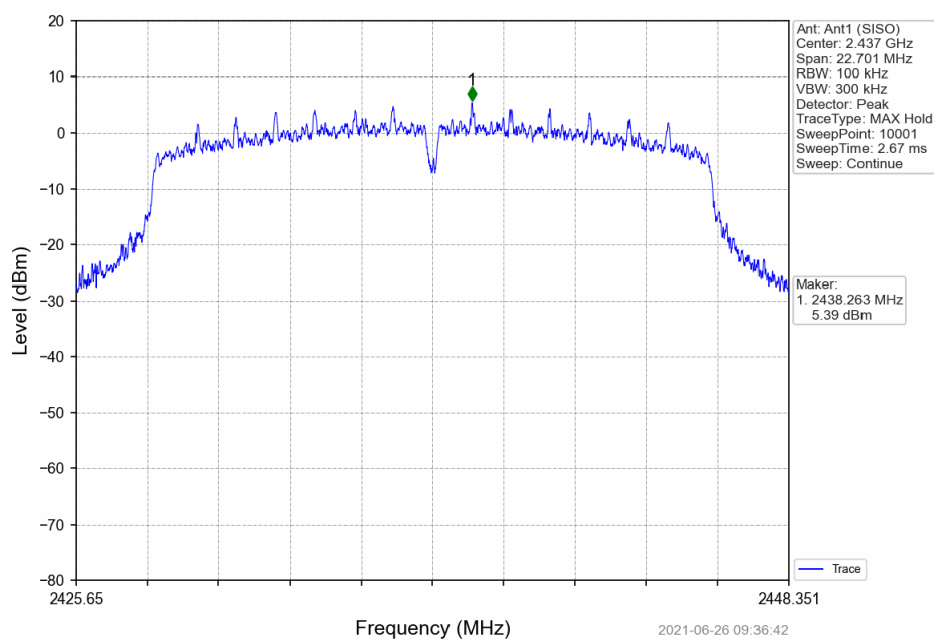
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

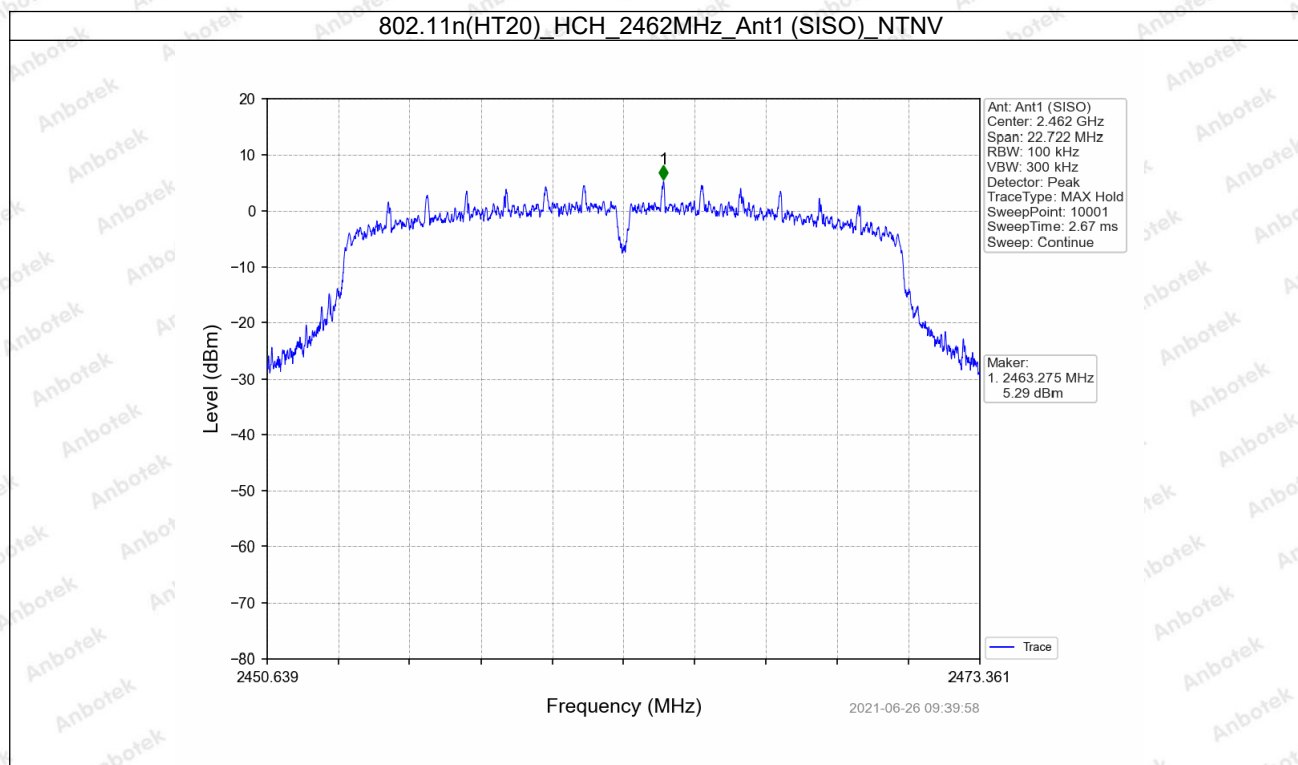


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5.2 CSE

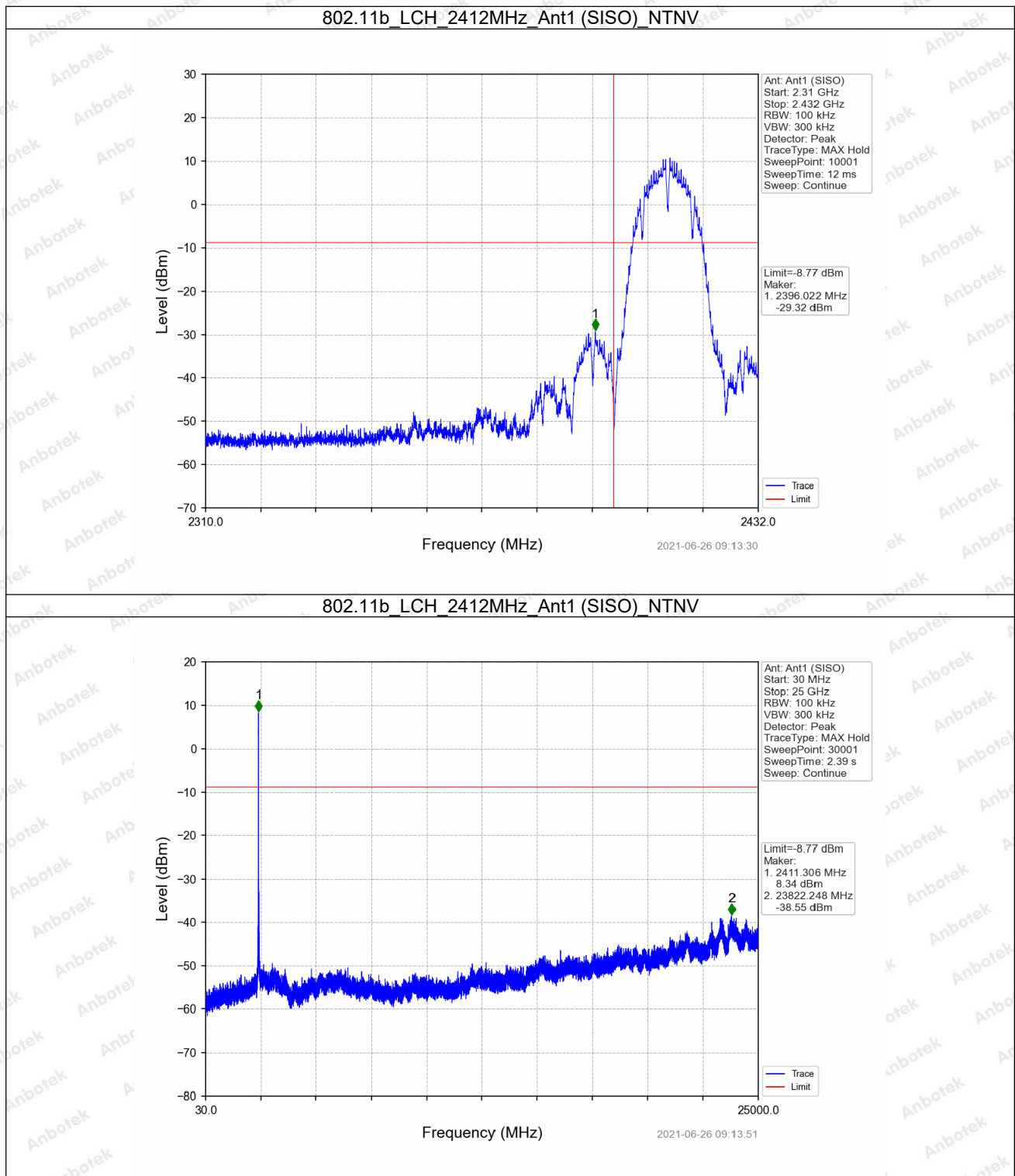
5.2.1 Test Result

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	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
802.11g	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2

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.

Note2: Only for Report Use

5.2.2 Test Graph



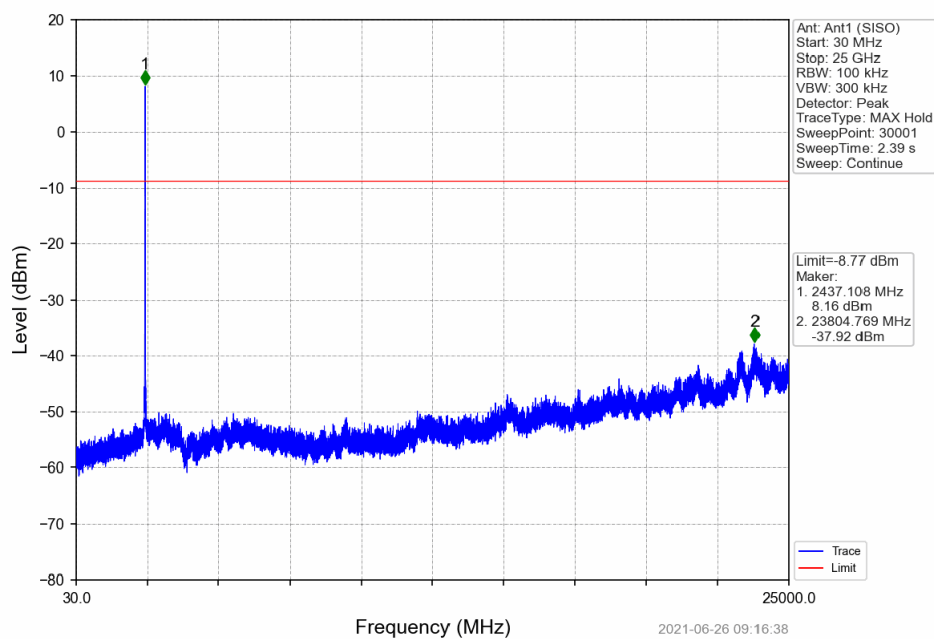
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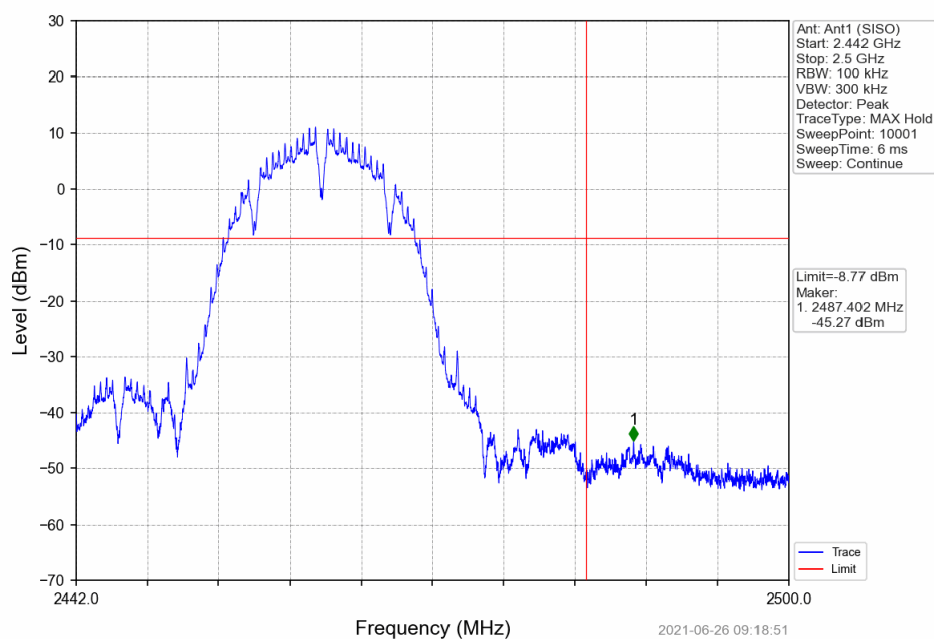
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

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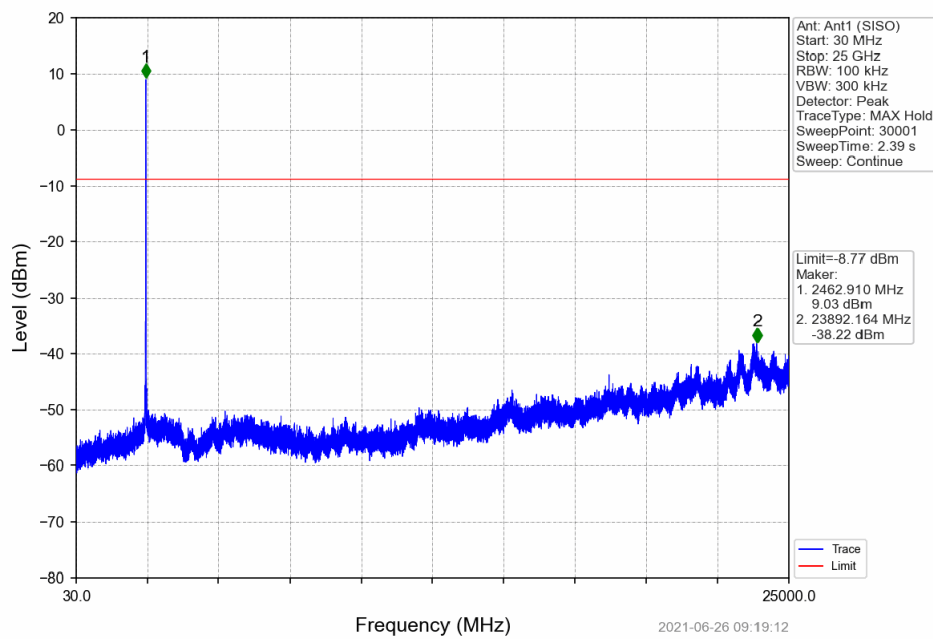


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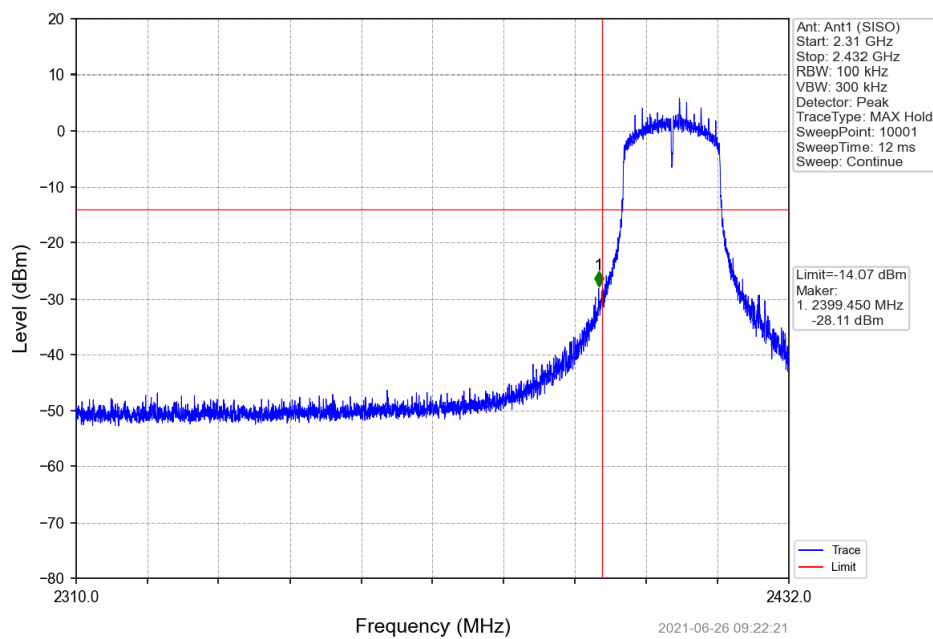
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



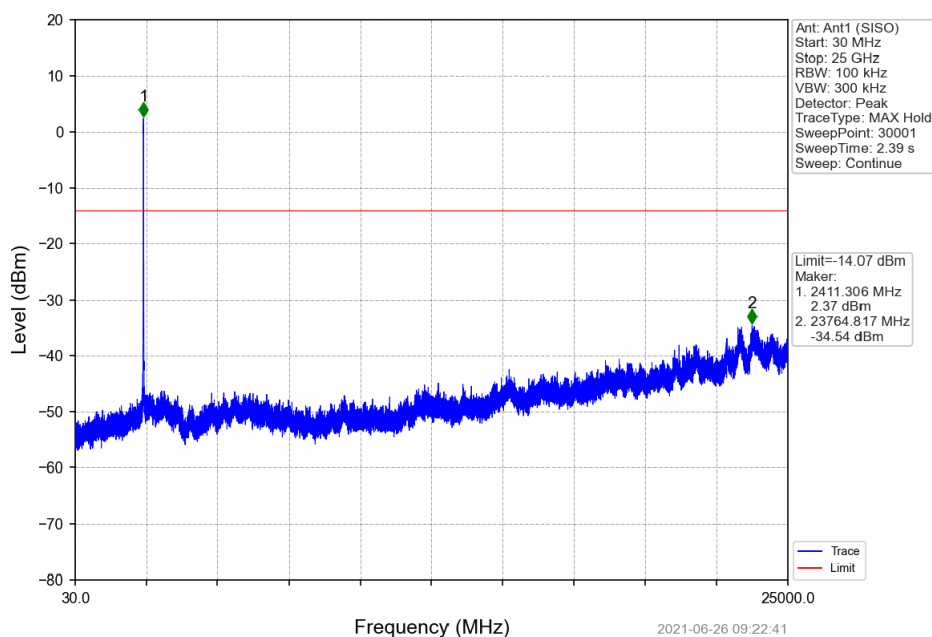
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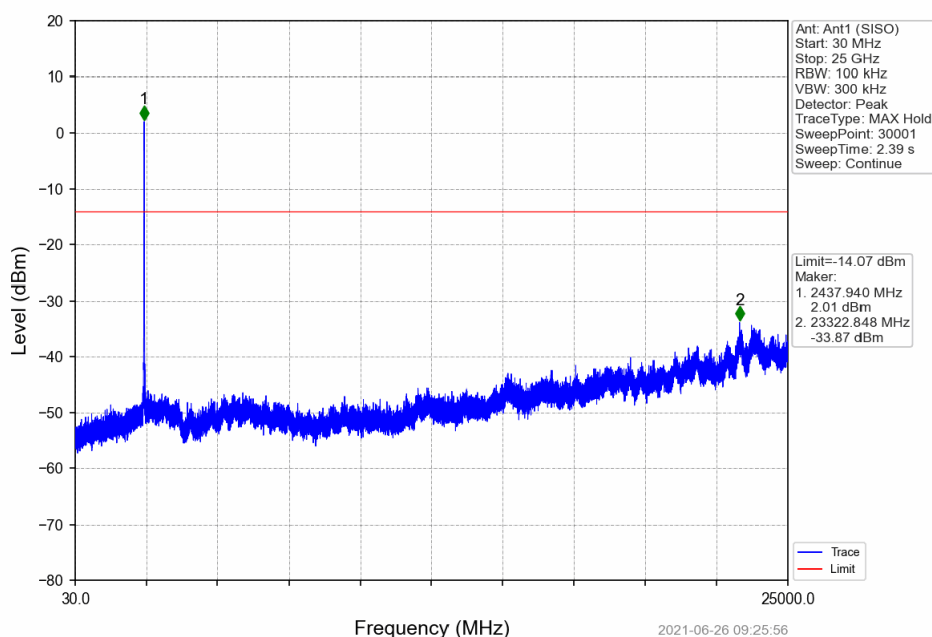
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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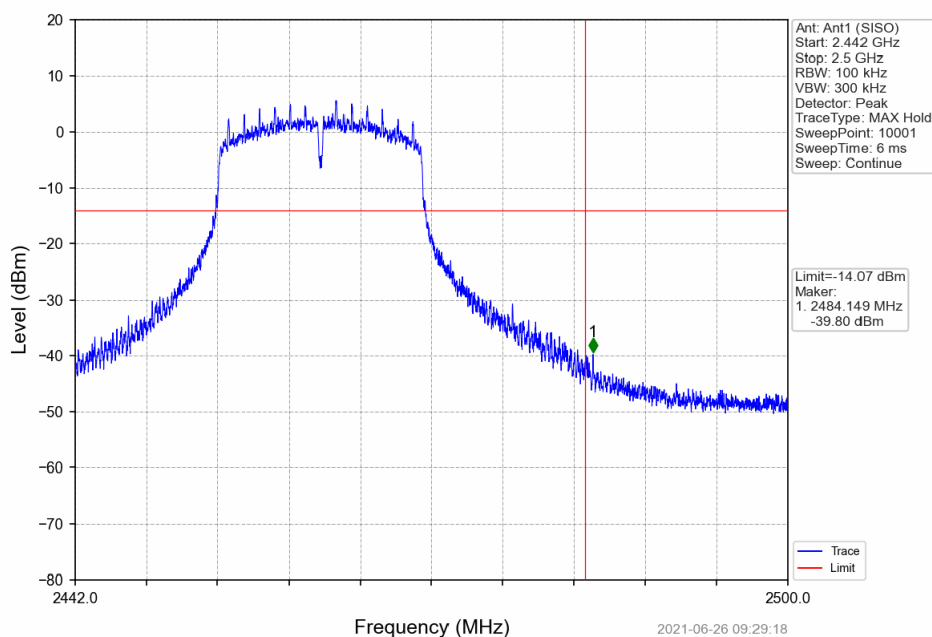


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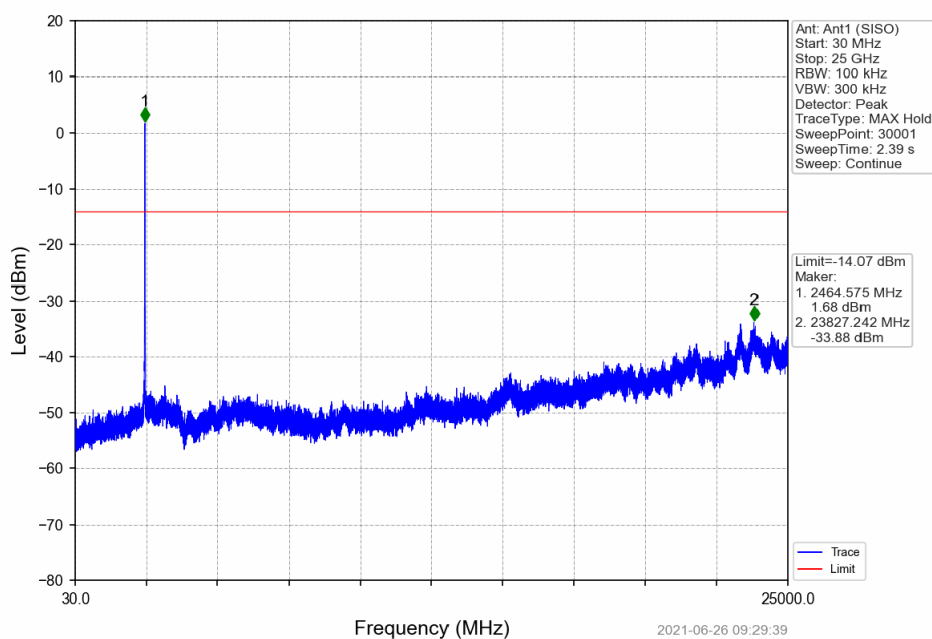
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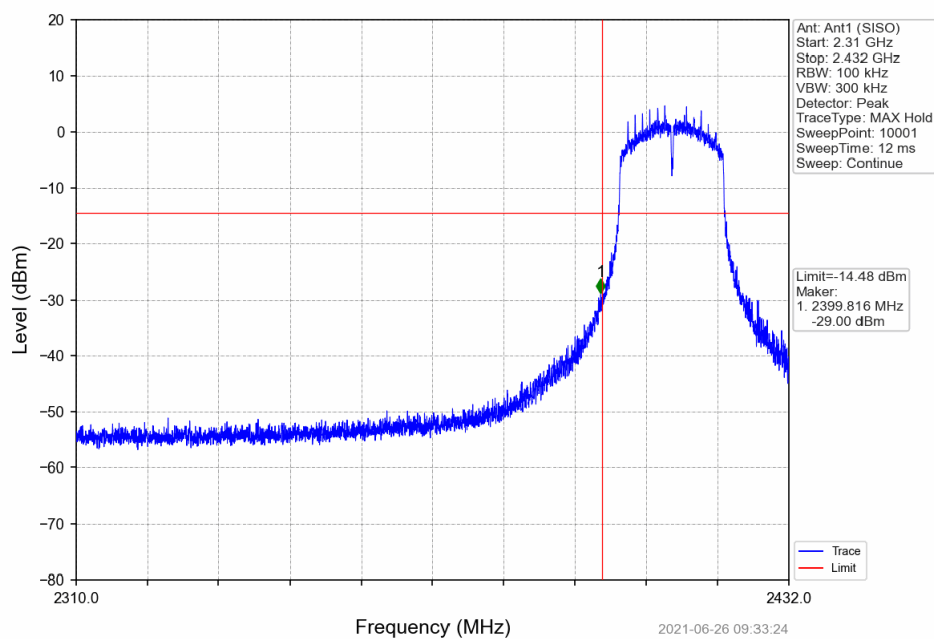
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



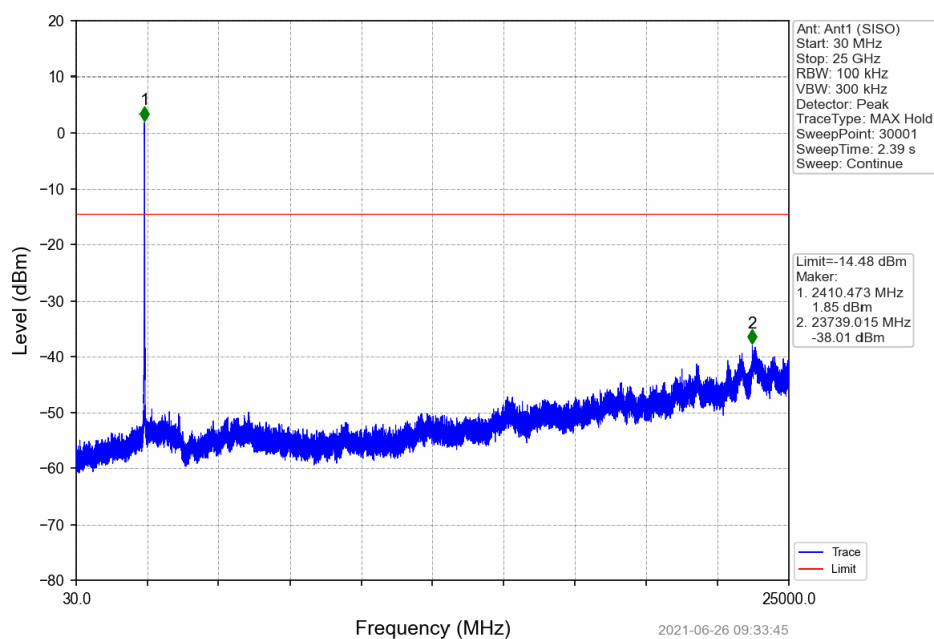
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



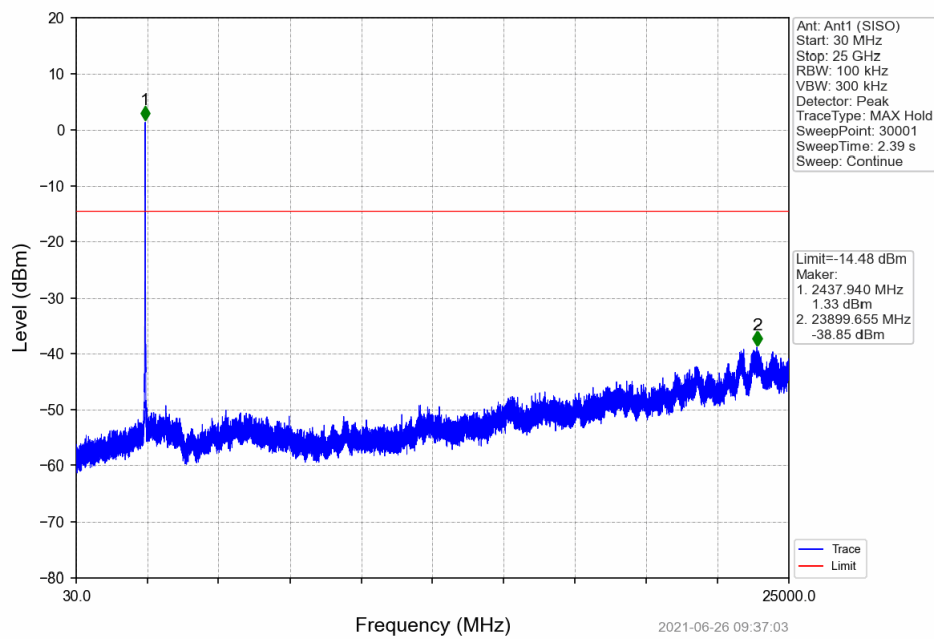
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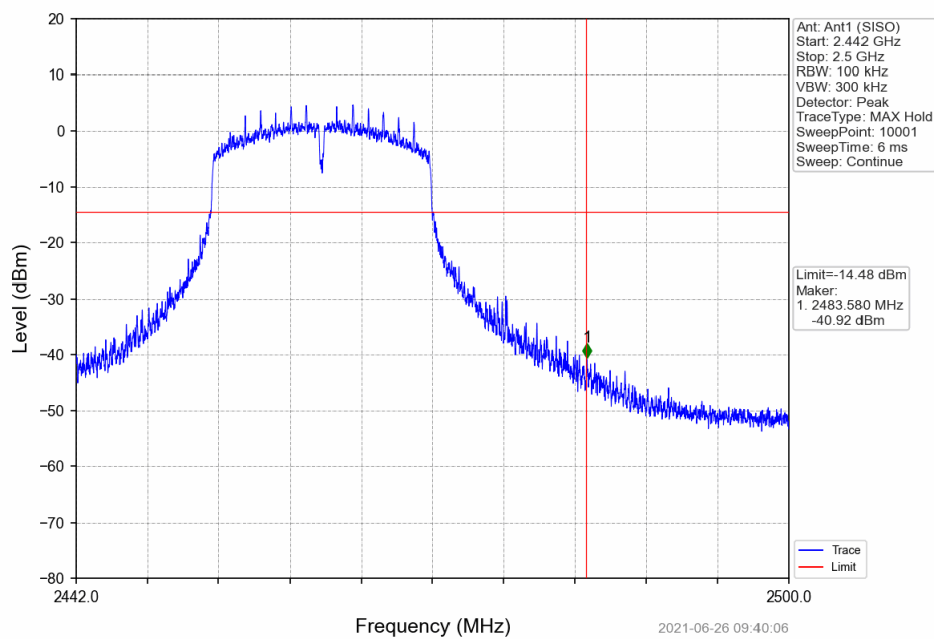
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

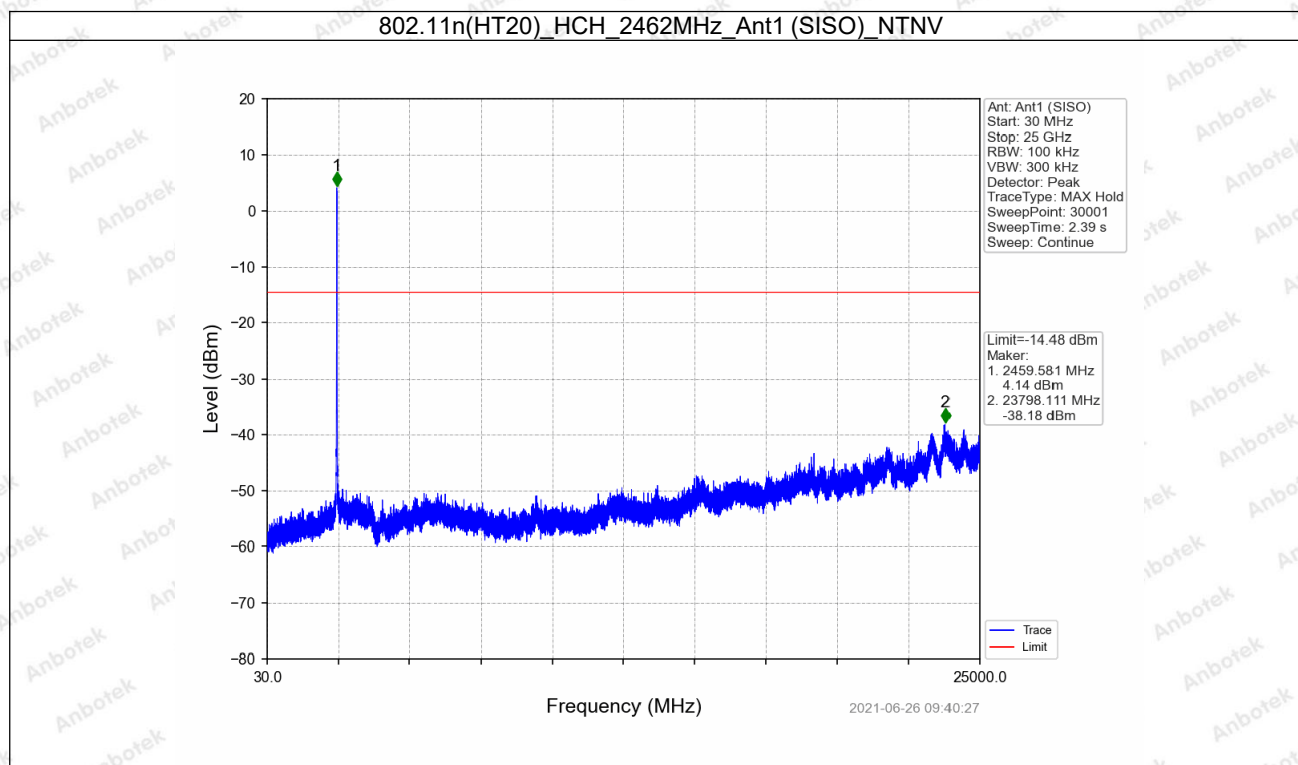


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6. Frequency Error

6.1 Ant1

6.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	20	102	2412.040	/	Note1
						120	2412.040	/	Note1
						138	2412.040	/	Note1
					-20	120	2412.040	/	Note1
		2437	/	/	20	102	2412.040	/	Note1
						120	2412.040	/	Note1
						138	2412.040	/	Note1
					-20	120	2412.040	/	Note1
		2462	/	/	20	102	2437.040	/	Note1
						120	2437.040	/	Note1
						138	2437.040	/	Note1
					-20	120	2437.040	/	Note1
802.11g	SISO	2412	/	/	20	102	2437.040	/	Note1
						120	2437.040	/	Note1
						138	2437.040	/	Note1
					-20	120	2437.040	/	Note1
		2437	/	/	20	102	2462.020	/	Note1
						120	2462.020	/	Note1
						138	2462.020	/	Note1
					-20	120	2462.020	/	Note1
		2462	/	/	20	102	2462.020	/	Note1
						120	2462.020	/	Note1
						138	2462.020	/	Note1
					-20	120	2462.020	/	Note1
802.11n (HT20)	SISO	2412	/	/	20	102	2412.040	/	Note1
						120	2412.020	/	Note1
						138	2412.040	/	Note1
					-20	120	2412.020	/	Note1
		2437	/	/	20	102	2412.040	/	Note1
						120	2412.020	/	Note1
						138	2412.020	/	Note1
					-20	120	2412.020	/	Note1
		2462	/	/	20	102	2437.020	/	Note1
						120	2437.020	/	Note1
						138	2437.020	/	Note1
					-20	120	2437.020	/	Note1
802.11n (HT20)	SISO	2412	/	/	20	102	2437.040	/	Note1
						120	2437.040	/	Note1
						138	2437.040	/	Note1
					-20	120	2437.040	/	Note1
		2437	/	/	20	102	2462.040	/	Note1
						120	2462.040	/	Note1
						138	2462.040	/	Note1
					-20	120	2462.040	/	Note1
		2462	/	/	20	102	2462.020	/	Note1
						120	2462.020	/	Note1
						138	2462.020	/	Note1
					-20	120	2462.020	/	Note1

Note1: Only for Report Use

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