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Appendix A for SHEM210600591801

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 (%)
		2412	1	1	12.42	12.56	98.89	0.05	0.55
802.11b	SISO	2437	/	/	12.42	12.58	98.73	0.06	0.95
		2462	1	/	12.42	12.58	98.73	0.06	0.95
	SISO	2412	/	/	2.06	2.20	93.81	0.28	4.50
802.11g		2437	/	/	2.06	2.21	93.39	0.30	4.49
		2462	/	/	2.06	2.23	92.35	0.35	6.01
802.11n		2412	1	/	1.92	2.09	91.72	0.38	6.42
	SISO	2437	1	/	1.92	2.09	91.82	0.37	4.94
(HT20)		2462	1	/	1.92	2.08	92.22	0.35	5.95
000 115	SISO	2422	1	/	0.94	1.11	84.65	0.72	10.79
802.11n (HT40)		2437	1	1	0.94	1.09	86.76	0.62	9.65
		2452	/	/	0.94	1.12	84.68	0.72	11.66

1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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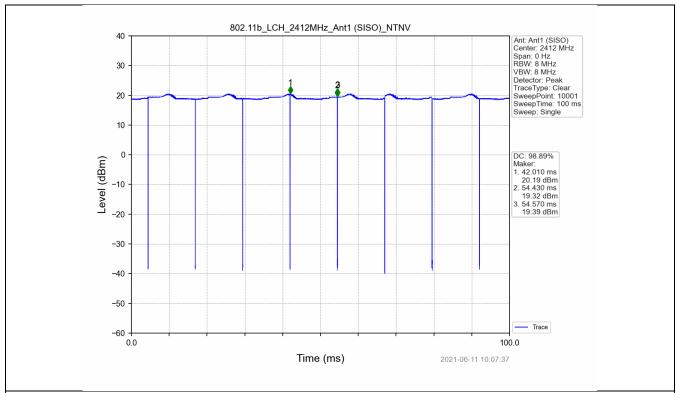
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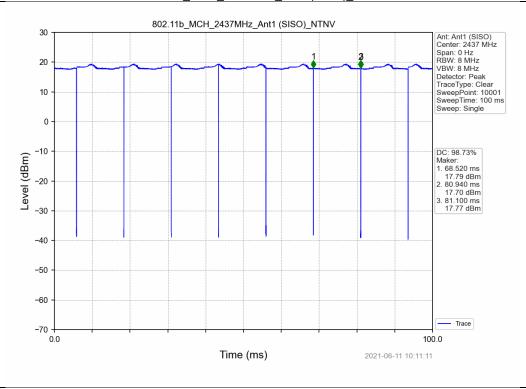


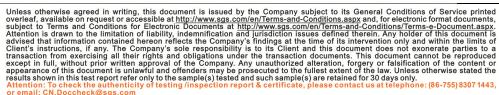


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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV





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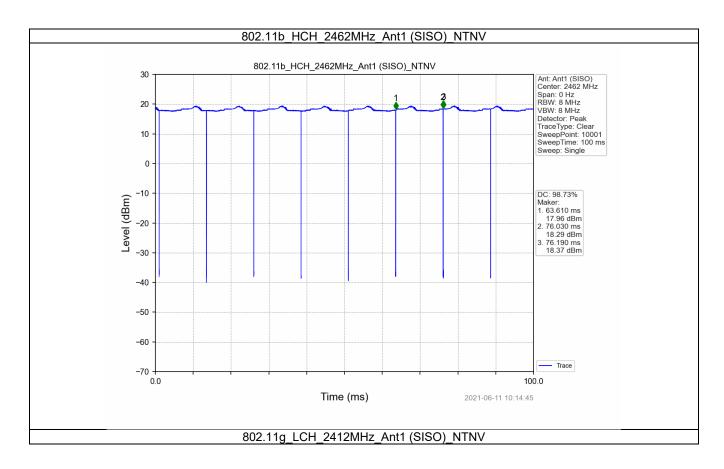
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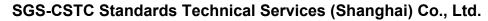
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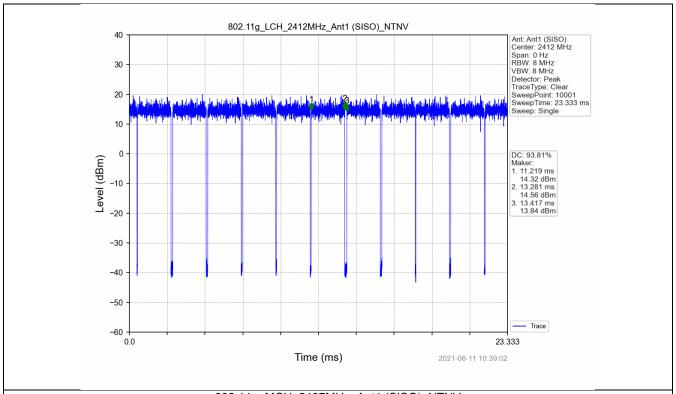
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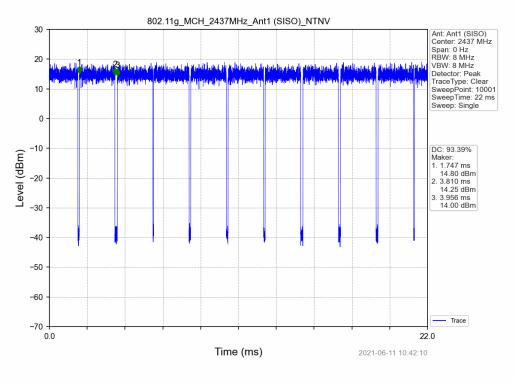


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

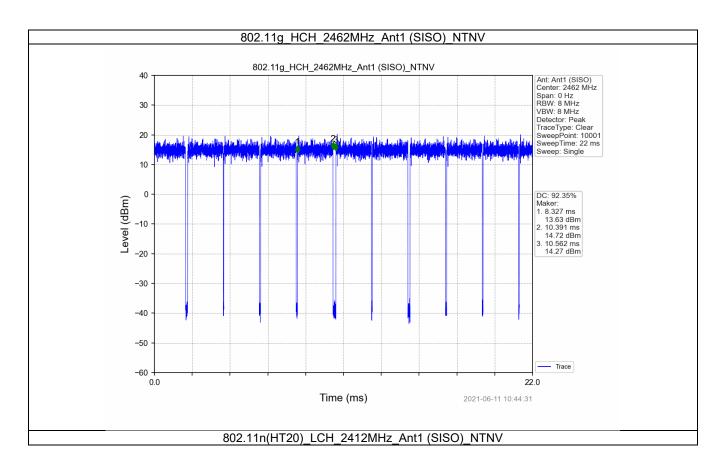




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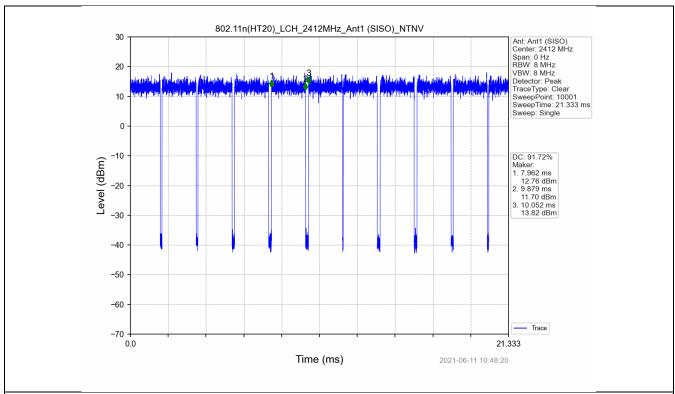
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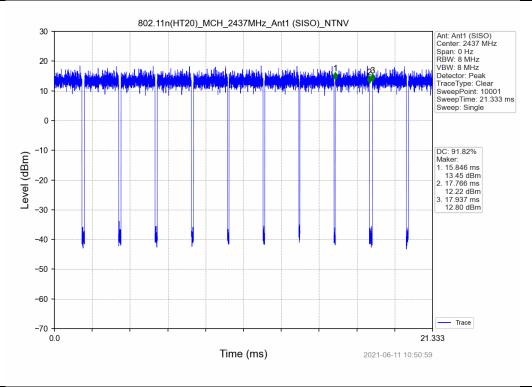
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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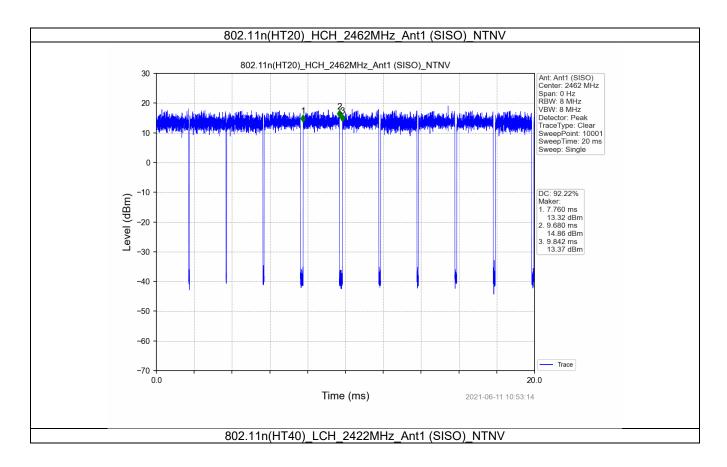
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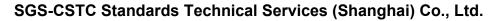
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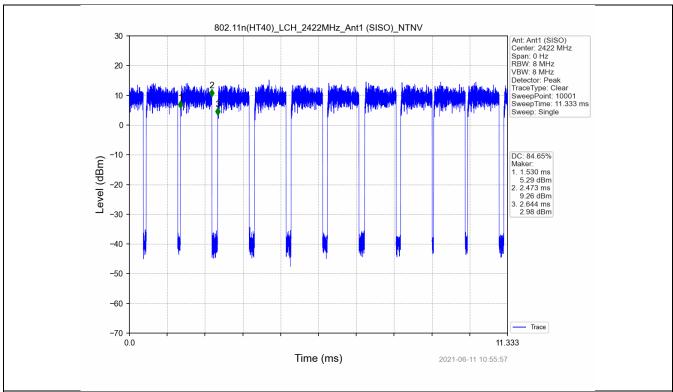
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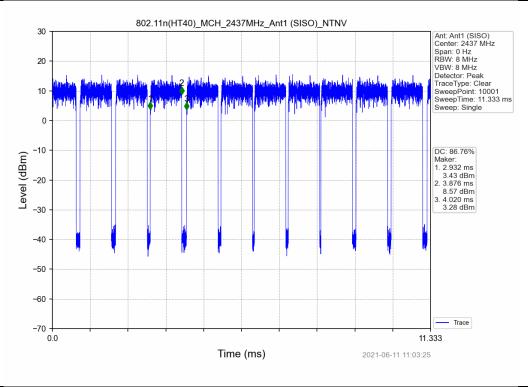




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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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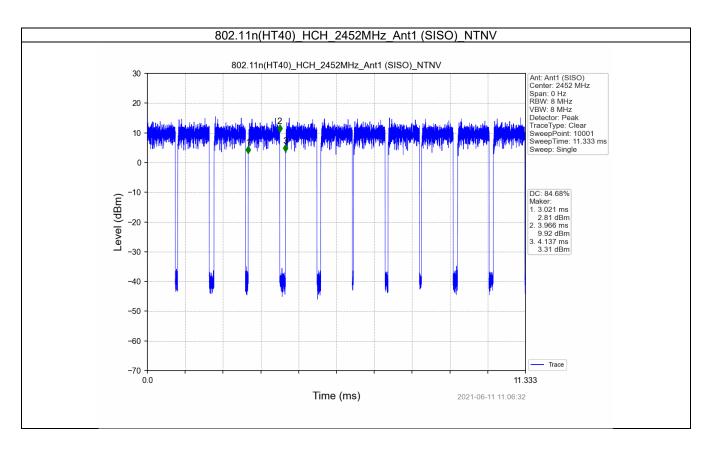
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency	RU	RU	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict			
	Type	(MHz)		Pos	Ant1	` '				
		2412	/	/	15.081	1	Note1			
802.11b	SISO	2437	/	/	15.067	1	Note1			
		2462	/	/	15.112	1	Note1			
	SISO	2412	/	/	17.988	1	Note1			
802.11g		2437	/	/	17.827	1	Note1			
		2462	/	/	18.056	1	Note1			
902.115	SISO	2412	/	/	18.558	1	Note1			
802.11n (HT20)		2437	/	/	18.384	1	Note1			
(П120)		2462	/	/	18.395	1	Note1			
000 445	SISO	2422	/	/	36.085	1	Note1			
802.11n		2437	/	/	36.360	1	Note1			
(HT40)		2452	/	/	36.100	1	Note1			
Note1: Only	Note1: Only for Report Use									

2.1.2 Test Graph



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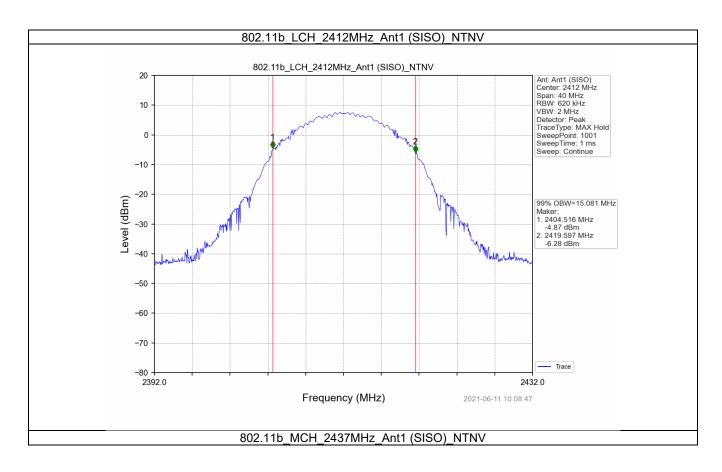
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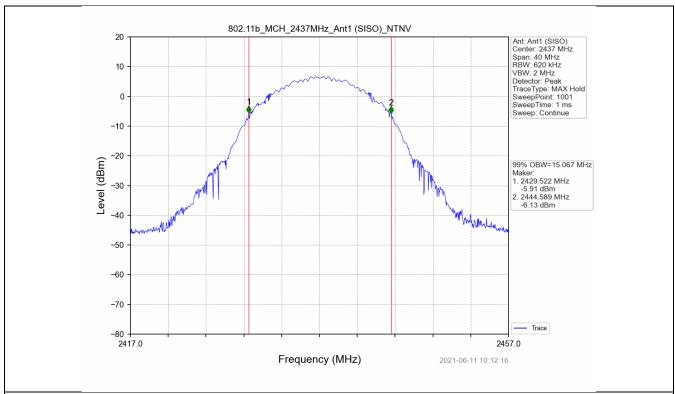
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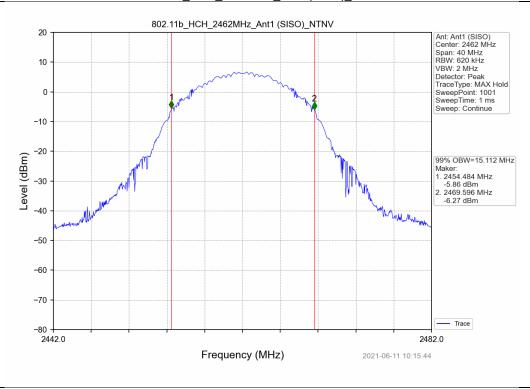




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802.11b HCH 2462MHz Ant1 (SISO) NTNV





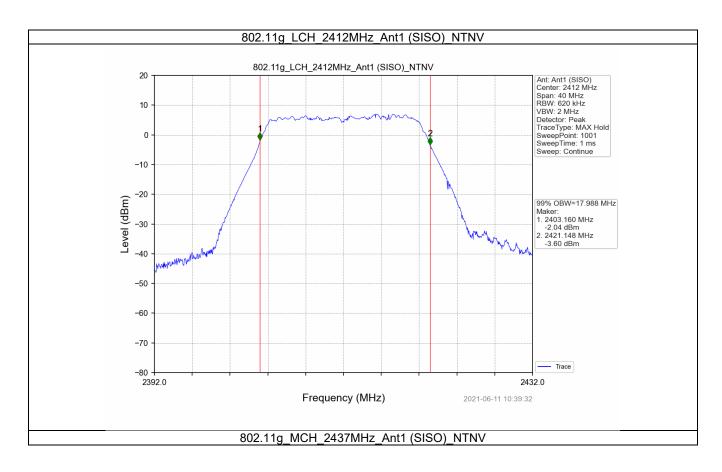
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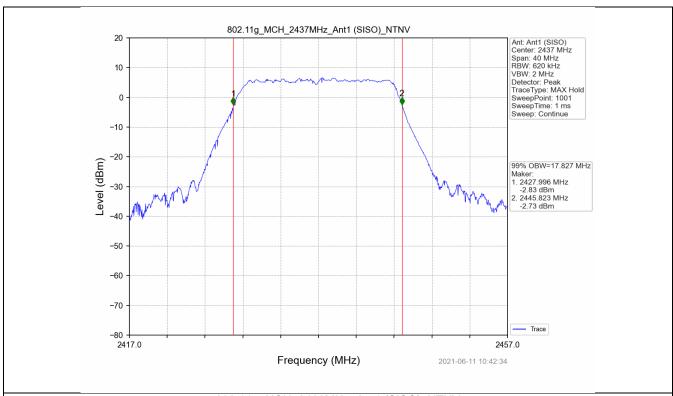
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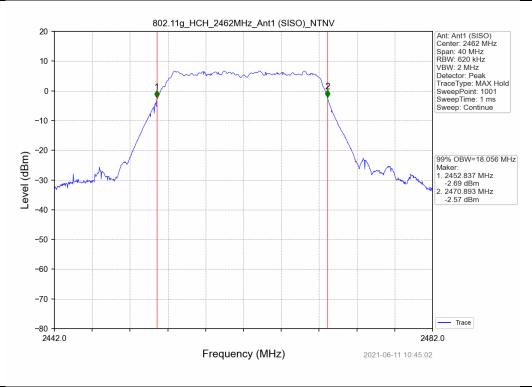


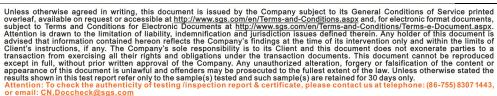


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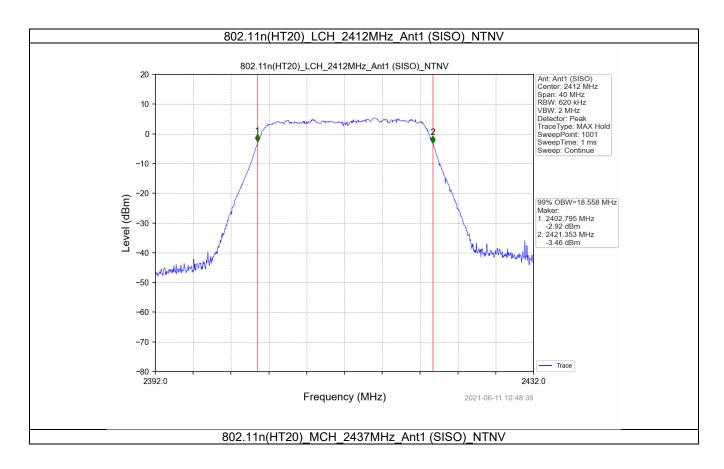


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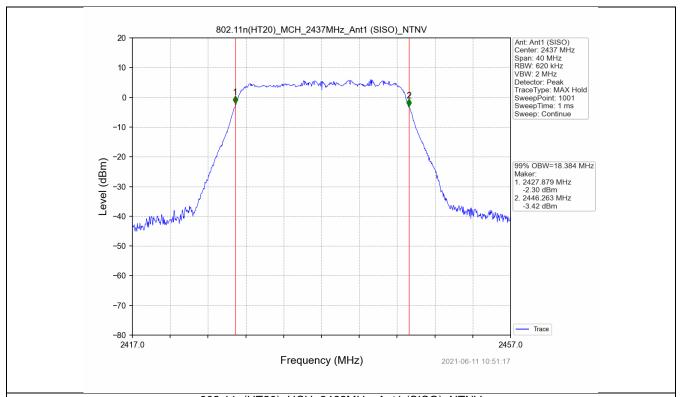
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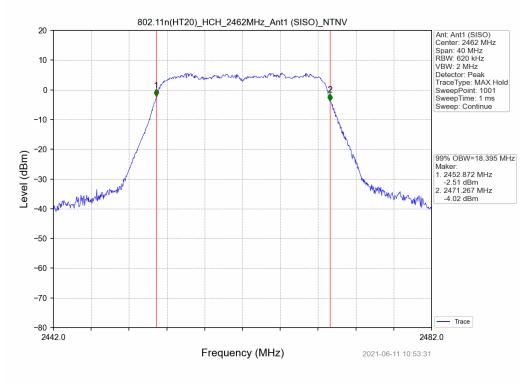
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





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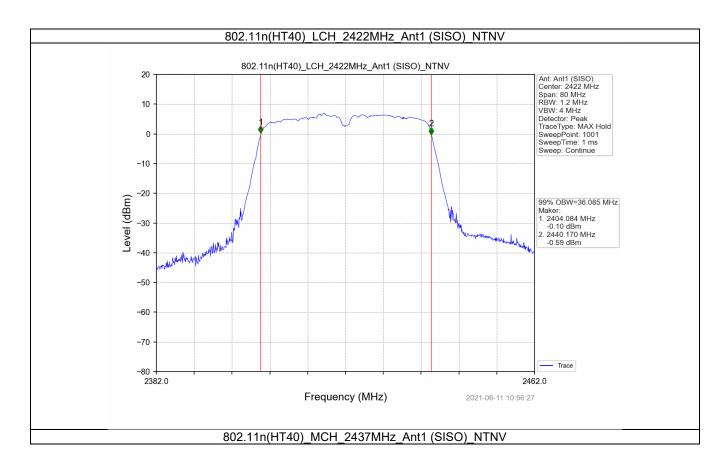
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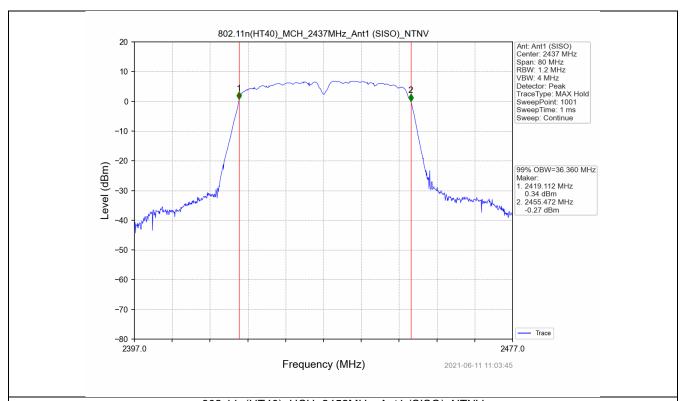
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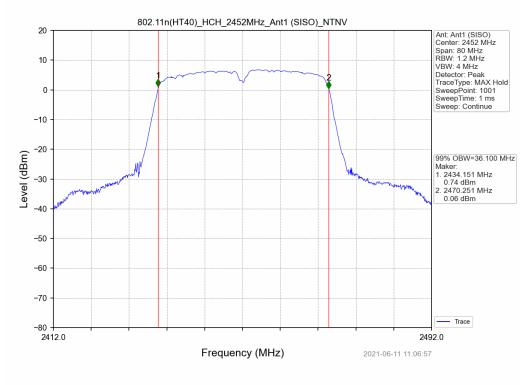
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV





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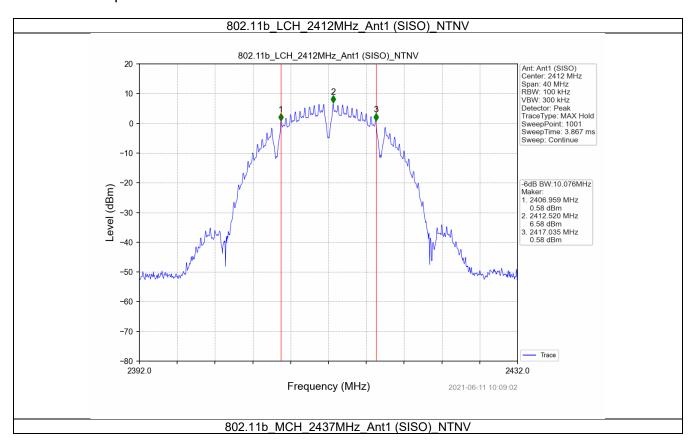
2.2 XDB

2.2.1 Test Result

Mode	TX Type	Frequency	RU	RU	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
		(MHz)	Pos		Ant1	Liiiii (ivii iz)	Verdict
		2412	/	/	10.076	1	Note1
802.11b	SISO	2437	/	/	10.085	/	Note1
		2462	/	/	10.079	/	Note1
	SISO	2412	/	/	16.384	/	Note1
802.11g		2437	/	/	16.363	1	Note1
		2462	/	/	16.406	1	Note1
000 11=	SISO	2412	/	/	17.552	1	Note1
802.11n		2437	/	/	17.372	/	Note1
(HT20)		2462	/	/	17.321	/	Note1
000 44=		2422	/	/	35.173	/	Note1
802.11n (HT40)	SISO	2437	1	/	35.172	1	Note1
		2452	1	1	35.174	1	Note1
Note1: Only	for Ren	ort I Ise		•		•	•

2.2.2 Test Graph

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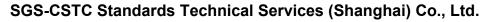
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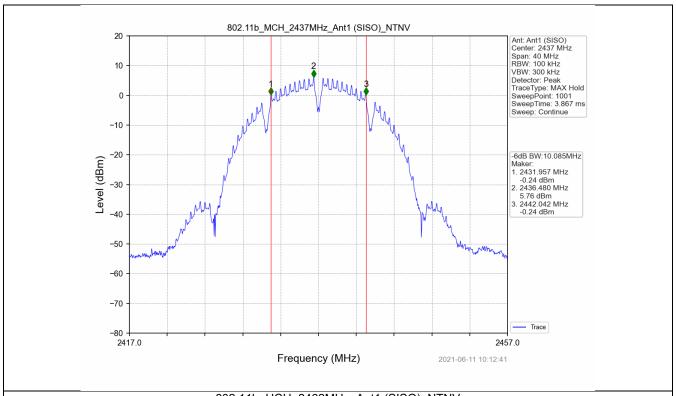
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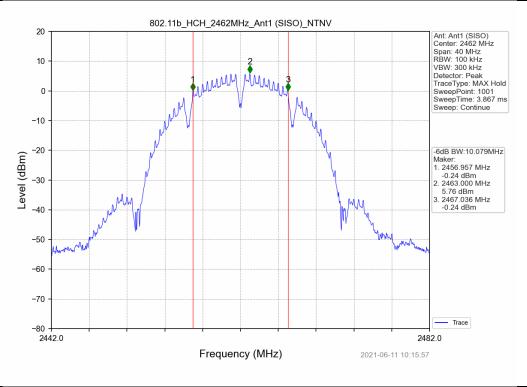




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802.11b HCH 2462MHz Ant1 (SISO) NTNV





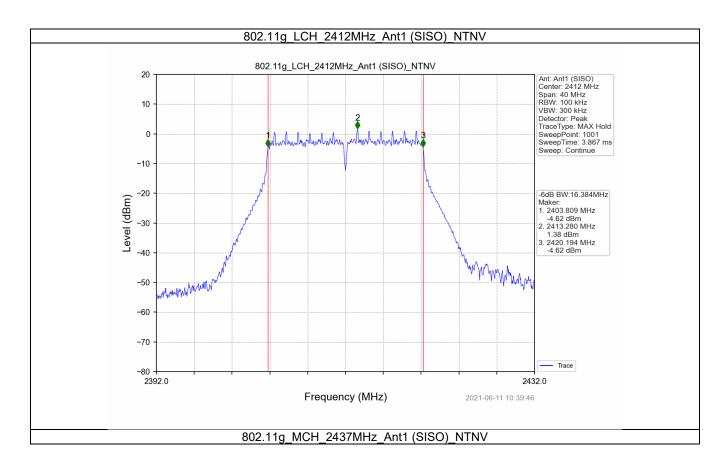
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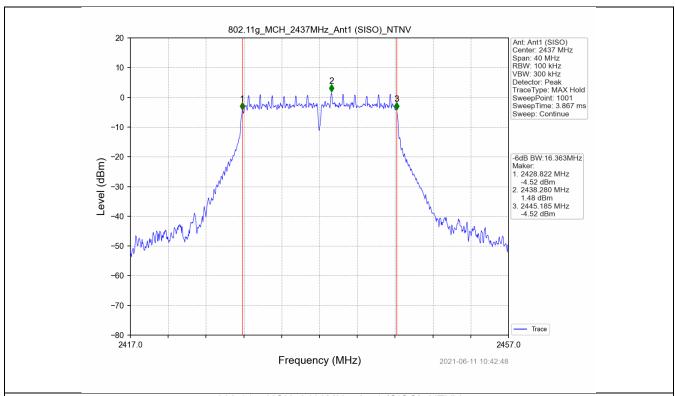
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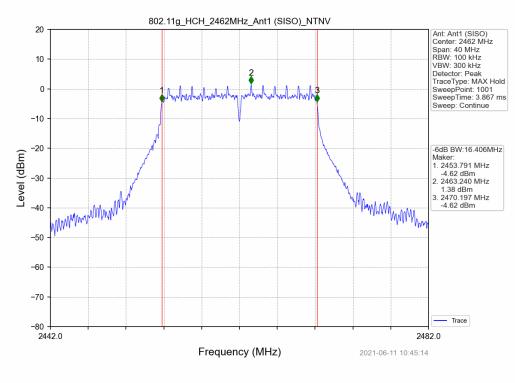


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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

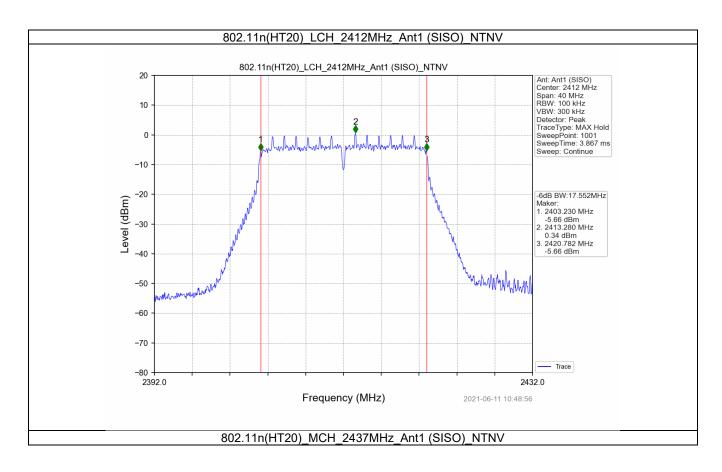




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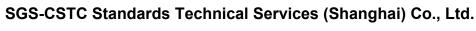
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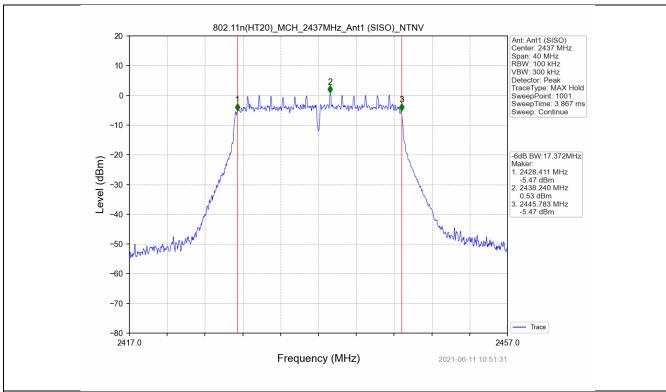
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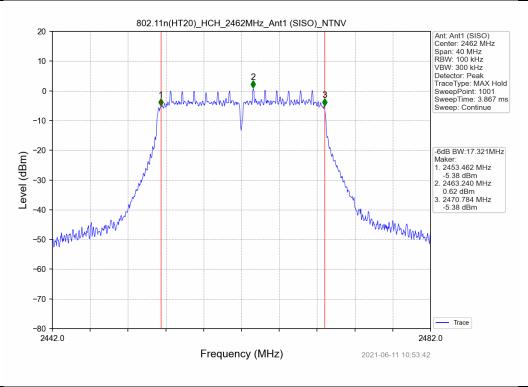


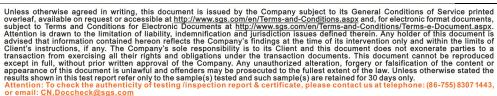


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





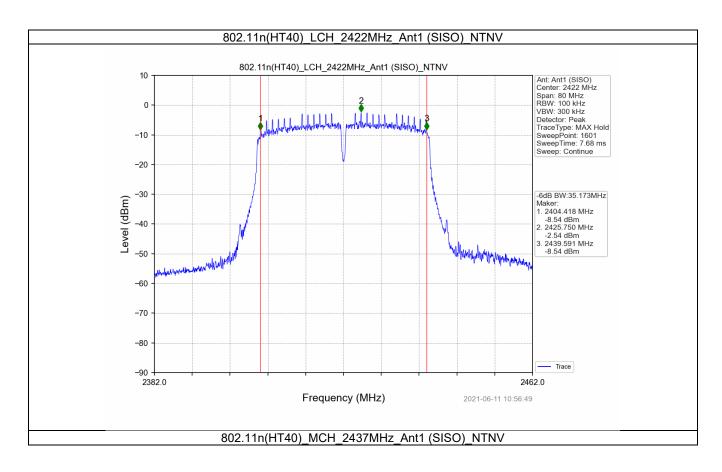
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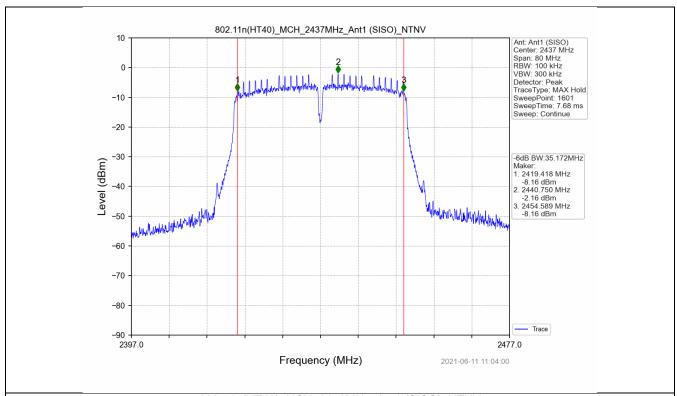
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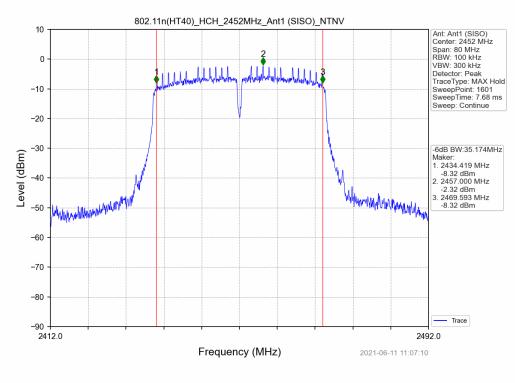


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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV







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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) Ant1	Limit (dBm)	Verdict
		2412	1	1	17.87	<=30	Pass
802.11b	SISO	2437	1	1	17.17	<=30	Pass
		2462	/	/	17.23	<=30	Pass
	SISO	2412	/	/	20.26	<=30	Pass
802.11g		2437	/	/	20.24	<=30	Pass
		2462	/	/	20.35	<=30	Pass
000 115	SISO	2412	/	/	19.07	<=30	Pass
802.11n		2437	/	/	19.34	<=30	Pass
(HT20)		2462	/	/	19.38	<=30	Pass
000 445	SISO	2422	/	/	19.08	<=30	Pass
802.11n		2437	/	/	19.39	<=30	Pass
(HT40)		2452	1	/	19.36	<=30	Pass
Note1: Ante	nna Gai	n: 1: 2.61dBi;	•				

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency	RU	RU	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Mode		(MHz)	Pos		Ant1	LITTIL (UDITI/SKI IZ)	verdict
		2412	/	/	-8.48	<=8	Pass
802.11b	SISO	2437	1	/	-8.50	<=8	Pass
		2462	1	1	-8.71	<=8	Pass
	SISO	2412	1	/	-12.46	<=8	Pass
802.11g		2437	/	/	-12.22	<=8	Pass
		2462	/	/	-12.52	<=8	Pass
000 11=		2412	/	/	-13.02	<=8	Pass
802.11n	SISO	2437	/	/	-14.20	<=8	Pass
(HT20)		2462	1	1	-13.50	<=8	Pass
000 11=	SISO	2422	1	1	-16.10	<=8	Pass
802.11n (HT40)		2437	1	1	-16.40	<=8	Pass
		2452	1	/	-16.30	<=8	Pass

4.1.2 Test Graph

802.11b LCH 2412MHz Ant1 (SISO) NTNV



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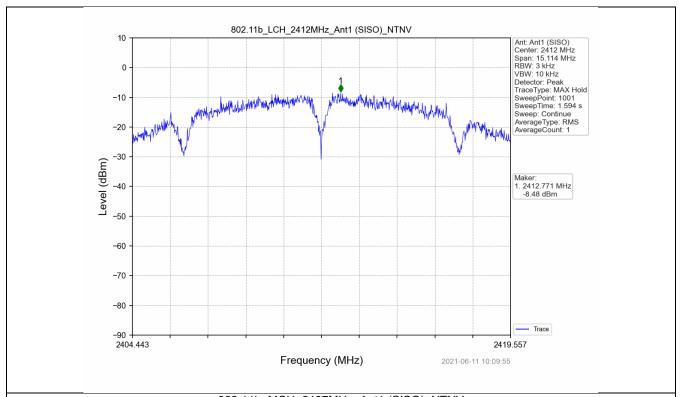
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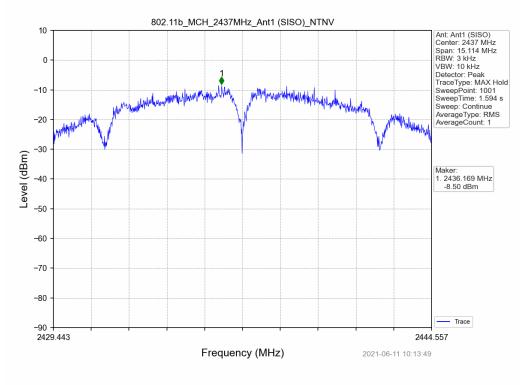


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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



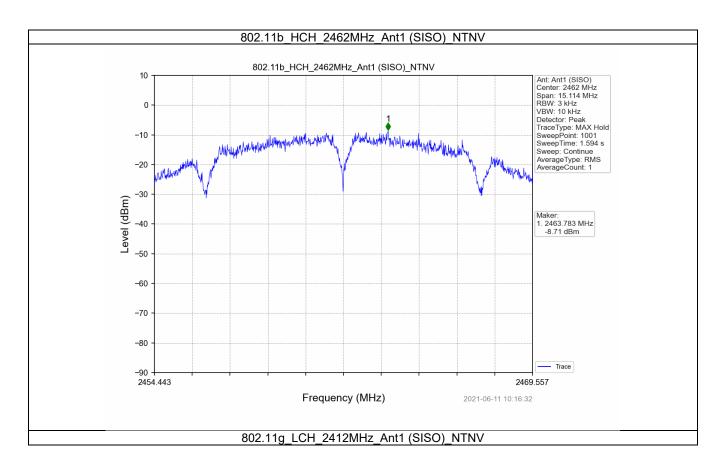


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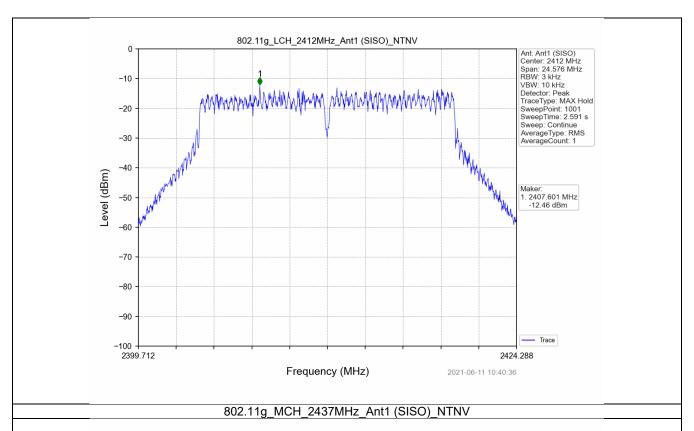
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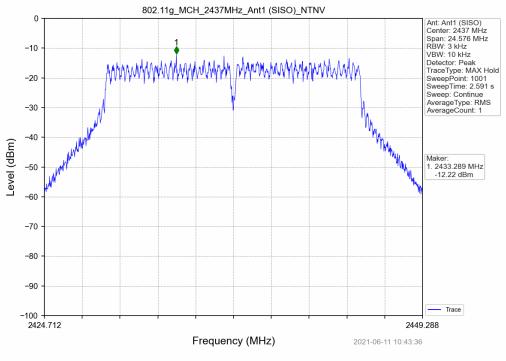




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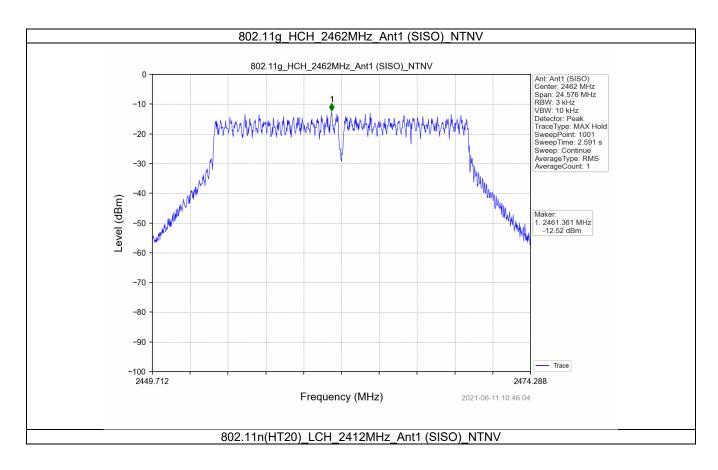




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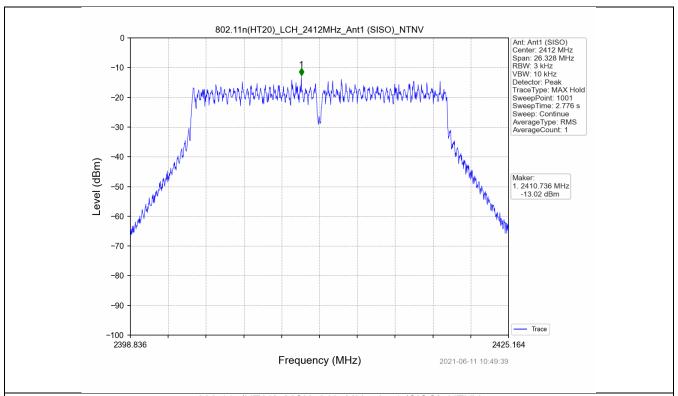
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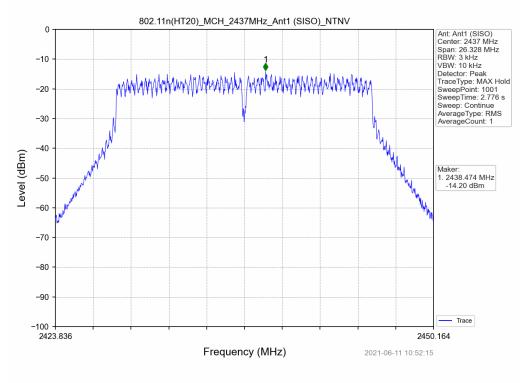
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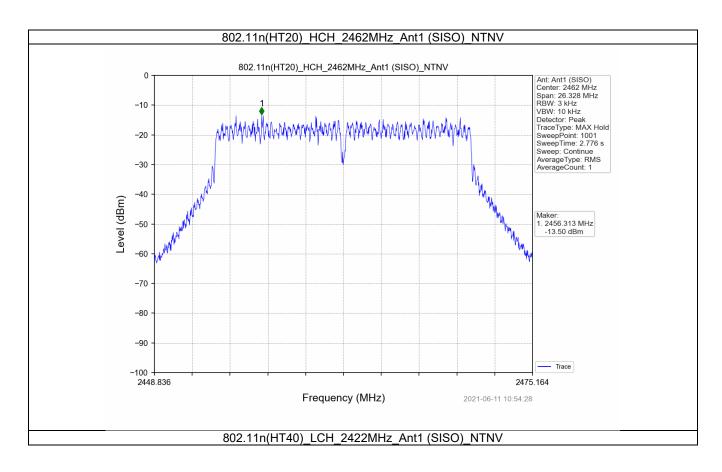
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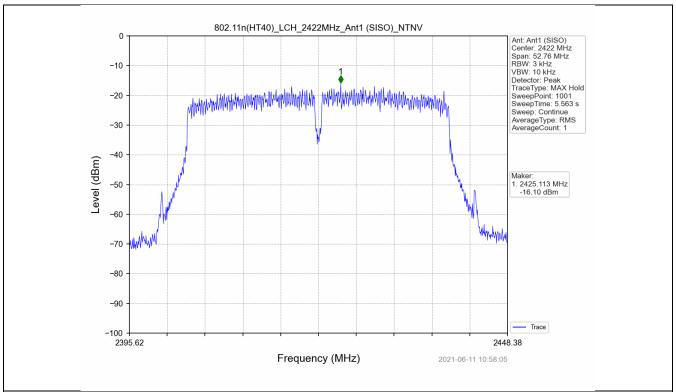
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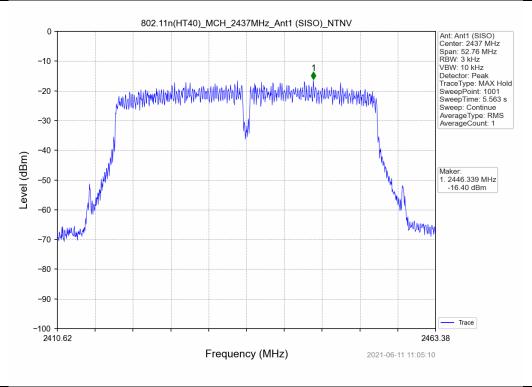
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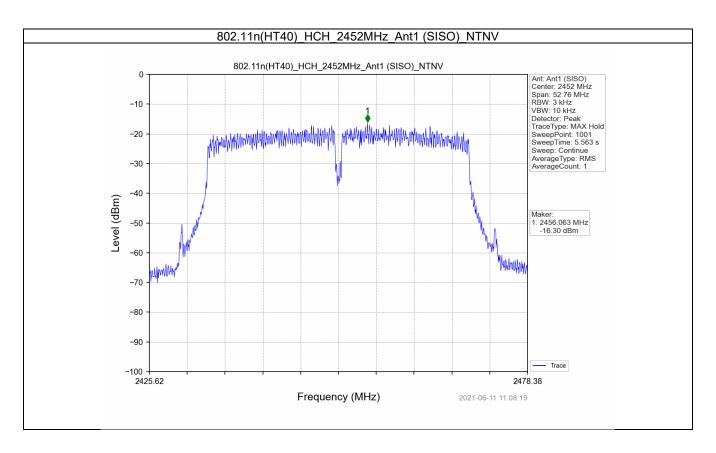
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
		2412	1	/	1	6.15	1	1
802.11b	SISO	2437	1	/	1	5.41	1	1
		2462	1	/	1	5.56	1	1
		2412	1	/	1	0.79	1	/
802.11g	SISO	2437	1	/	1	0.99	1	1
		2462	1	/	1	1.42	1	1
902 115		2412	1	/	1	-0.22	1	1
802.11n (HT20)	SISO	2437	1	/	1	0.48	1	1
(11120)		2462	1	/	1	0.28	1	1
000 11=		2422	/	/	1	-2.54	/	/
802.11n	SISO	2437	1	/	1	-2.24	1	1
(HT40)		2452	1	/	1	-2.28	1	1

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

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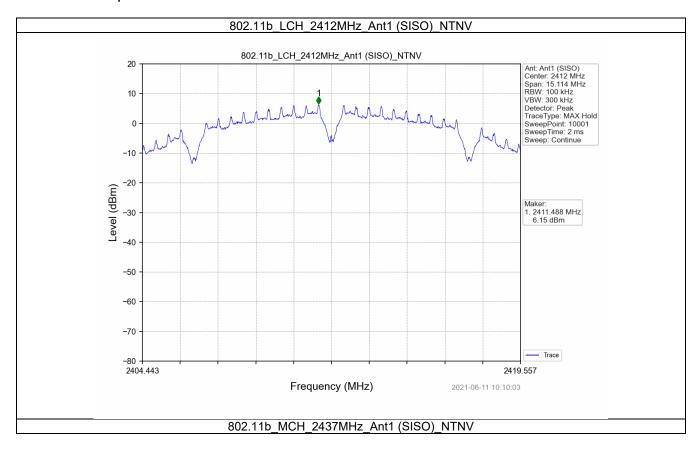
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5.1.2 Test Graph





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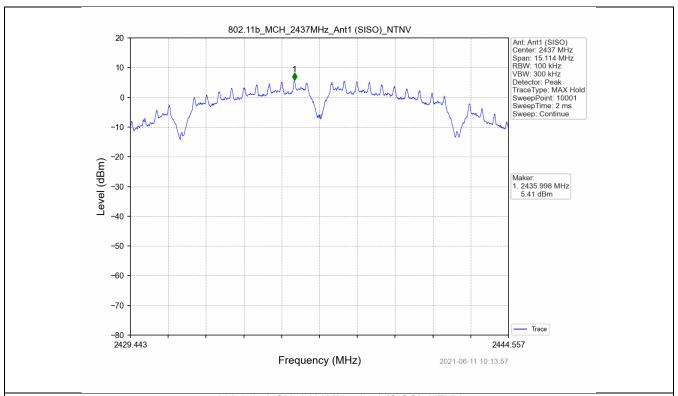
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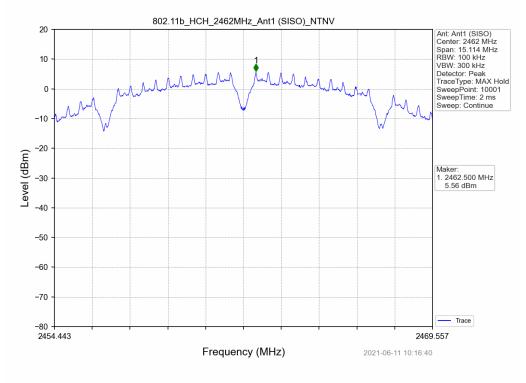
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV





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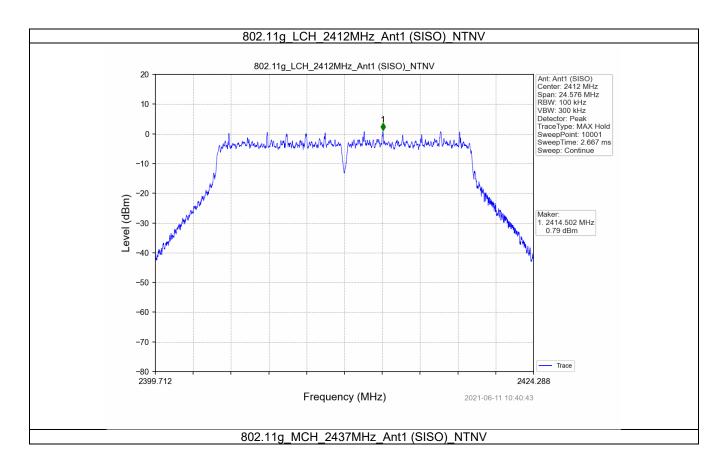
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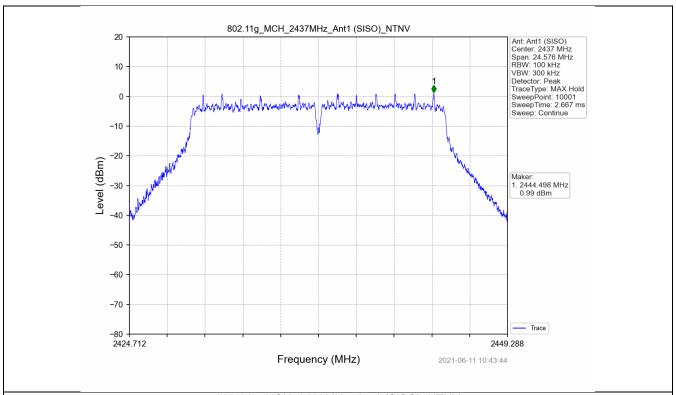
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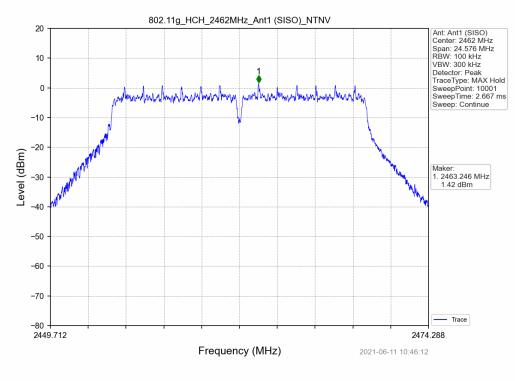
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



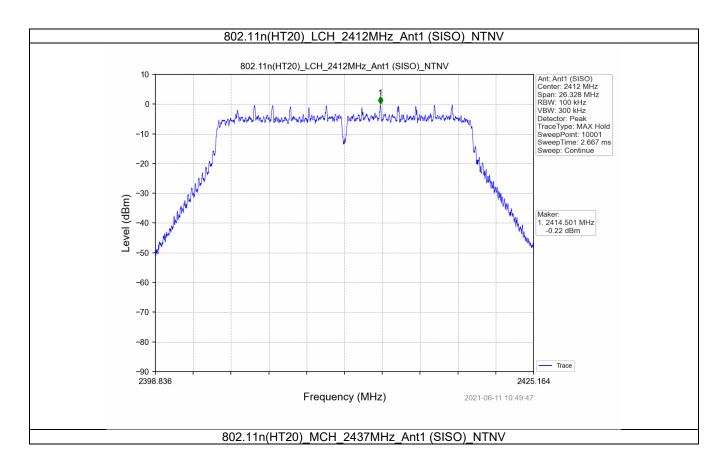


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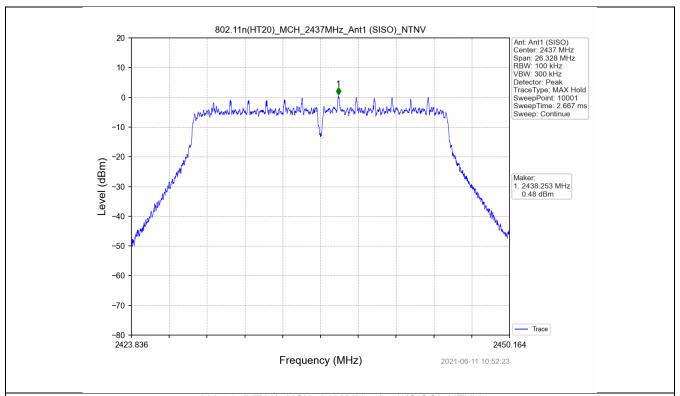
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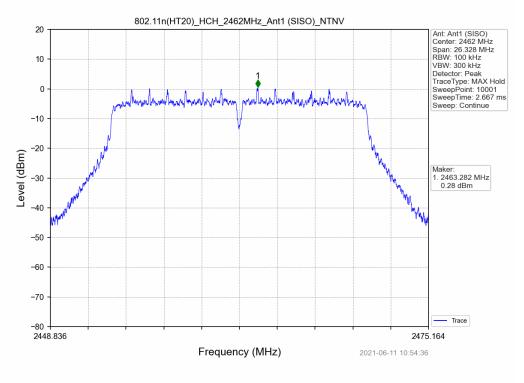
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





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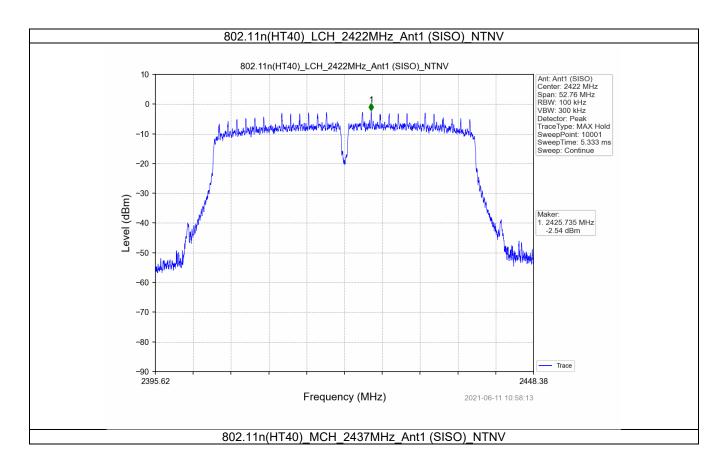
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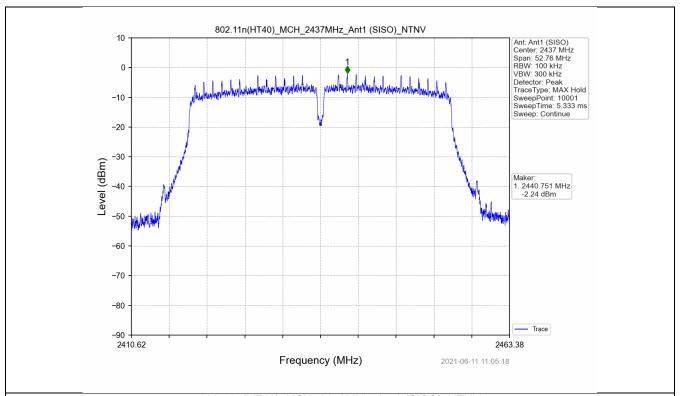
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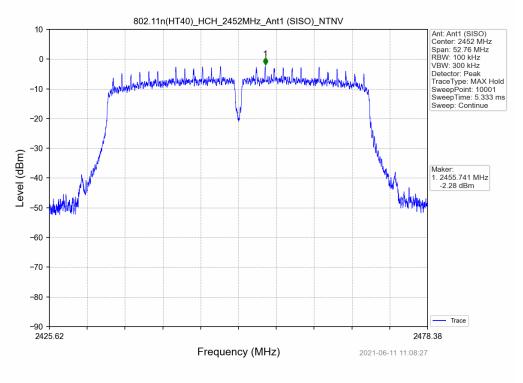
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV





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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	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	1	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	1	/	1	Refer To Test Graph	Refer To Test Graph	Pass
802.11g	SISO	2412	1	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	1	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	1	/	1	Refer To Test Graph	Refer To Test Graph	Pass
802.11n (HT20)	SISO	2412	1	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	1	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	1	/	1	Refer To Test Graph	Refer To Test Graph	Pass
802.11n (HT40)	SISO	2422	1	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	1	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2452	1	/	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.

Note2: Only for Report Use

5.2.2 Test Graph

802.11b LCH 2412MHz Ant1 (SISO) NTNV



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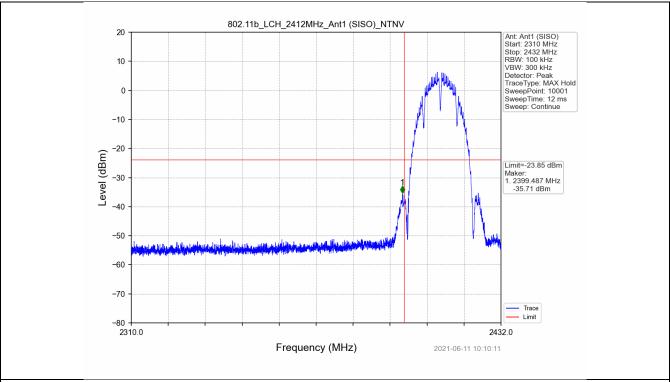
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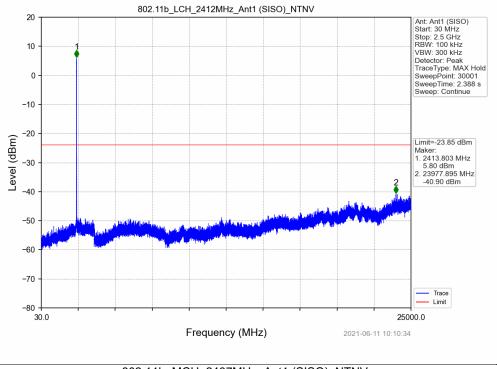




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802.11b LCH 2412MHz Ant1 (SISO) NTNV



802.11b MCH 2437MHz Ant1 (SISO) NTNV

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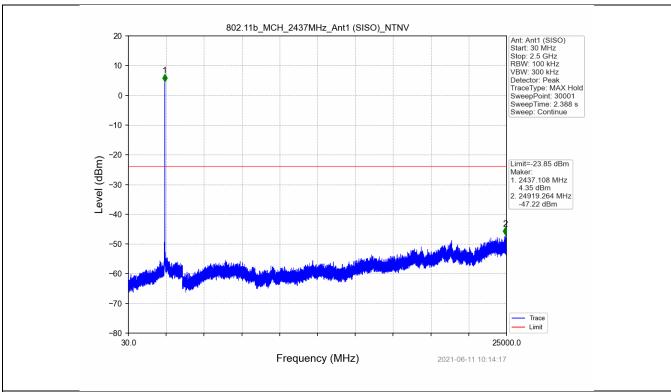
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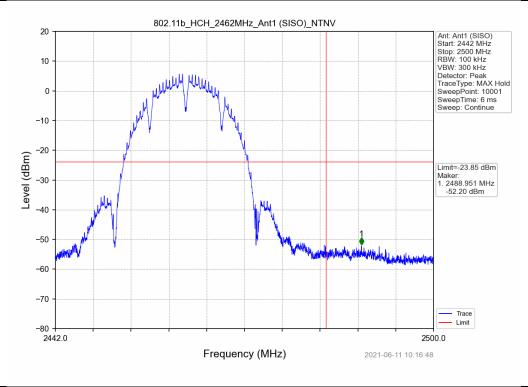
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802.11b HCH 2462MHz Ant1 (SISO) NTNV





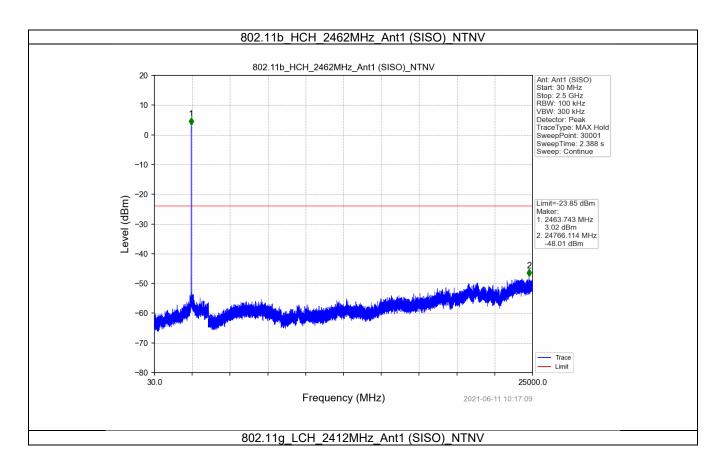
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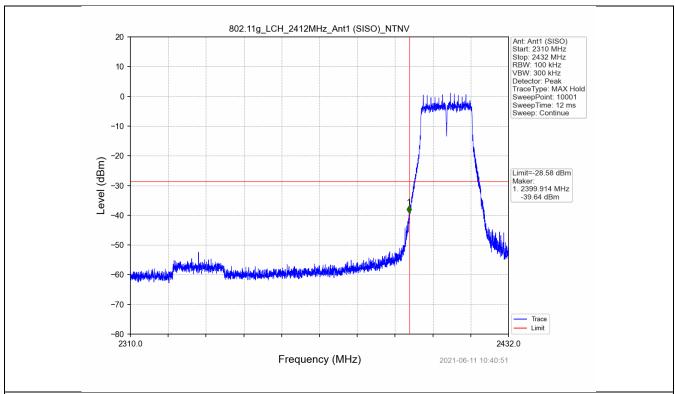
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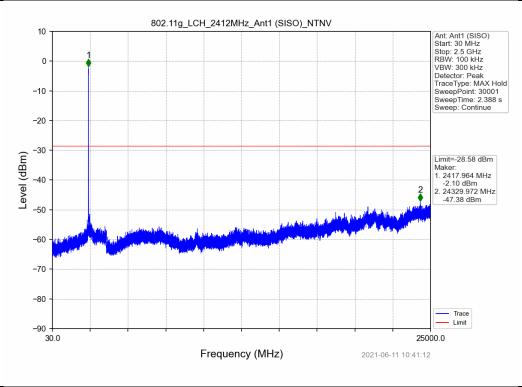
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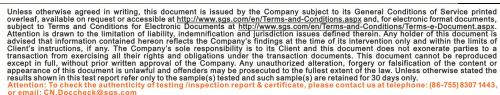


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802.11g LCH 2412MHz Ant1 (SISO) NTNV





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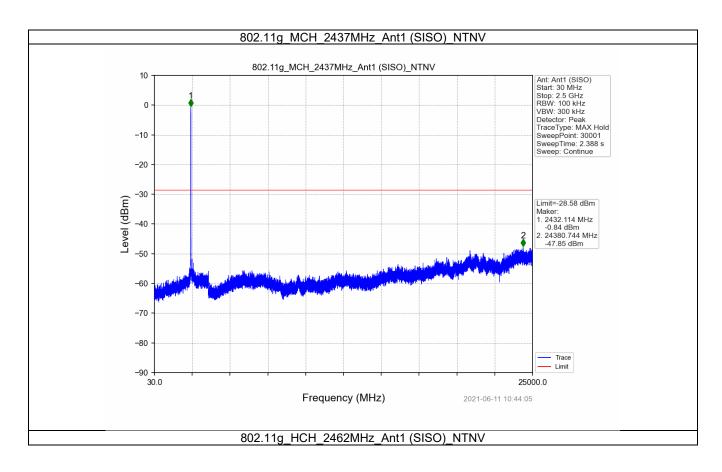
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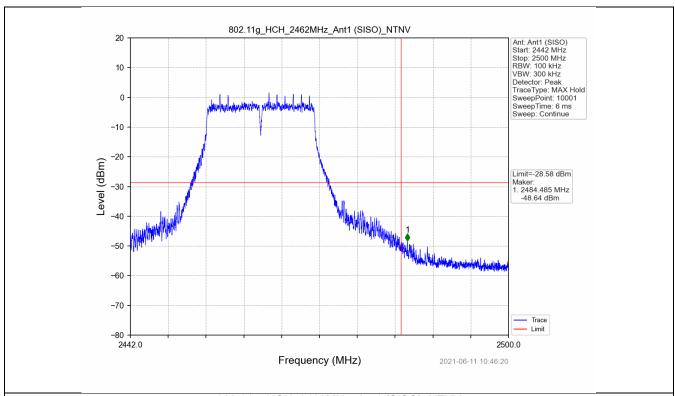
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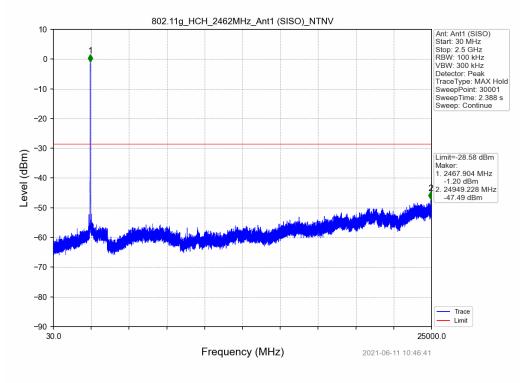




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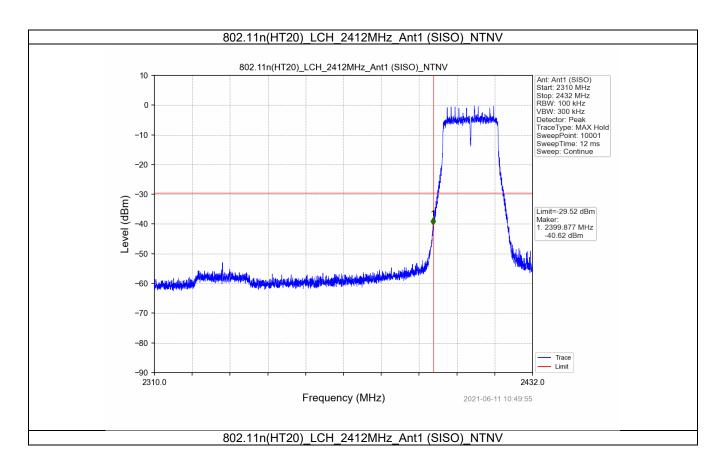
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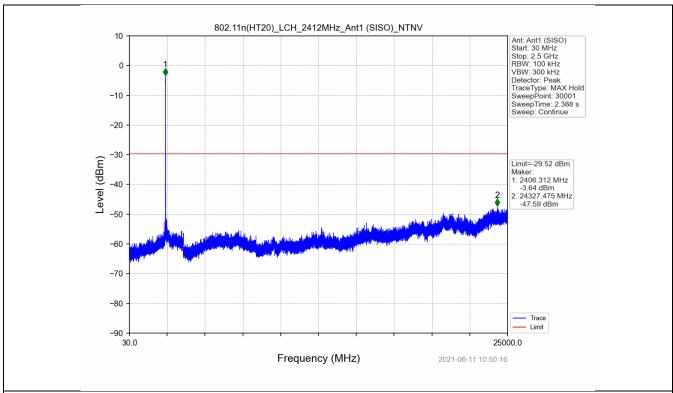
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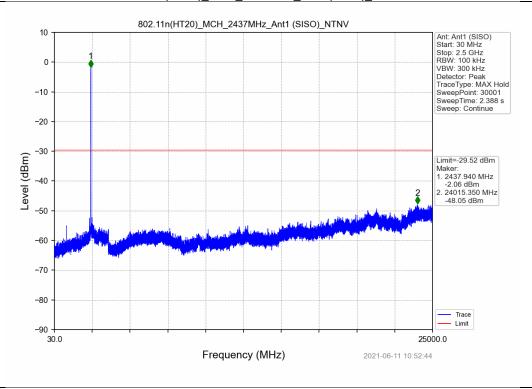
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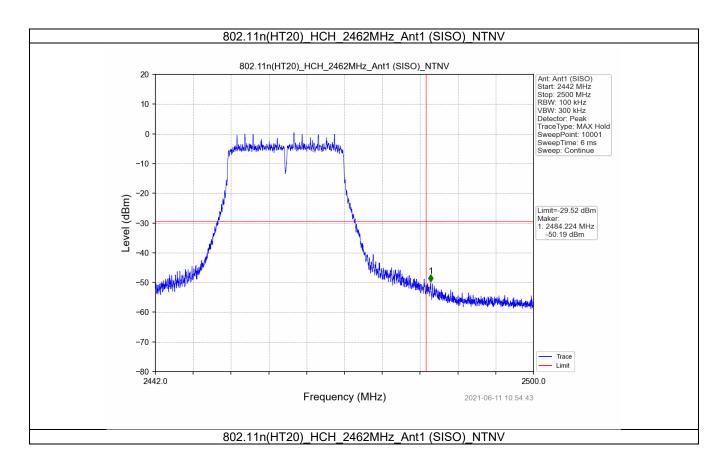
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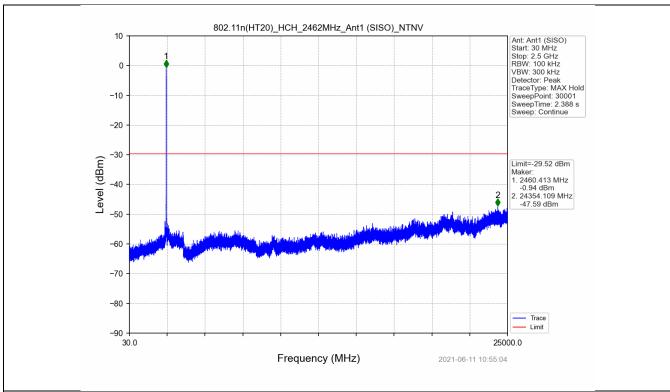
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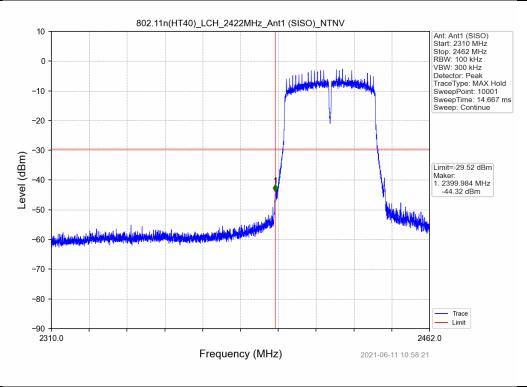
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV





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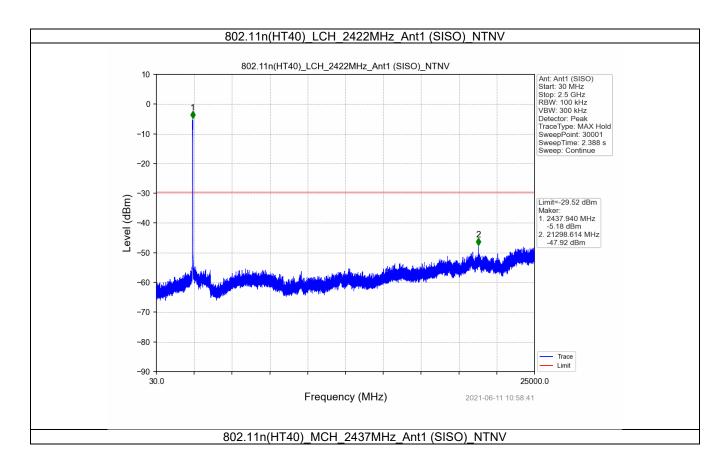
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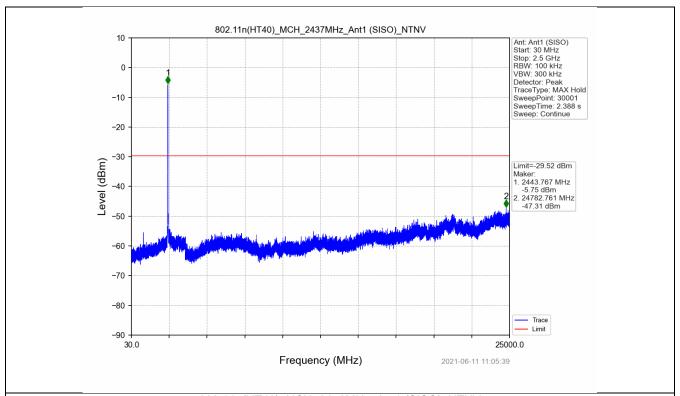
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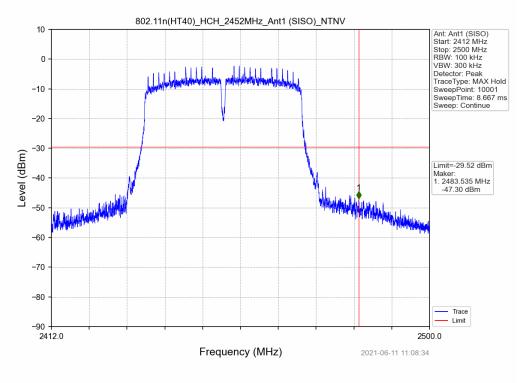
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV





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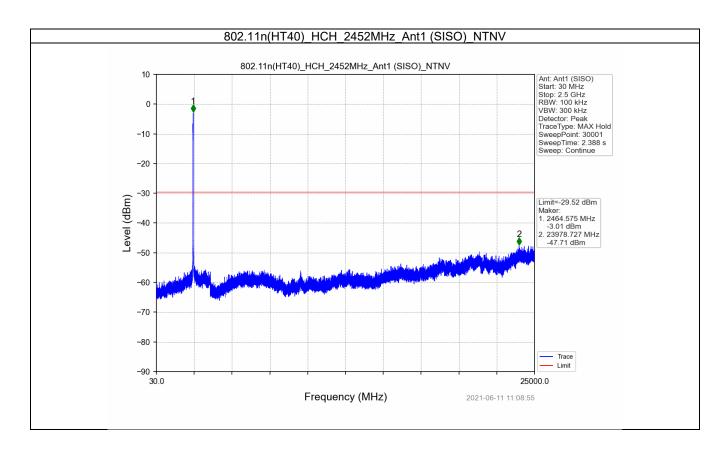
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