



Appendix A for SHEM210600597701

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	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2462	/	/	100.00	100.00	100.00	0.00	0.00
802.11g	SISO	2412	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2462	/	/	100.00	100.00	100.00	0.00	0.00
802.11n (HT20)	MIMO	2412	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2462	/	/	100.00	100.00	100.00	0.00	0.00
802.11n (HT40)	MIMO	2422	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2452	/	/	100.00	100.00	100.00	0.00	0.00

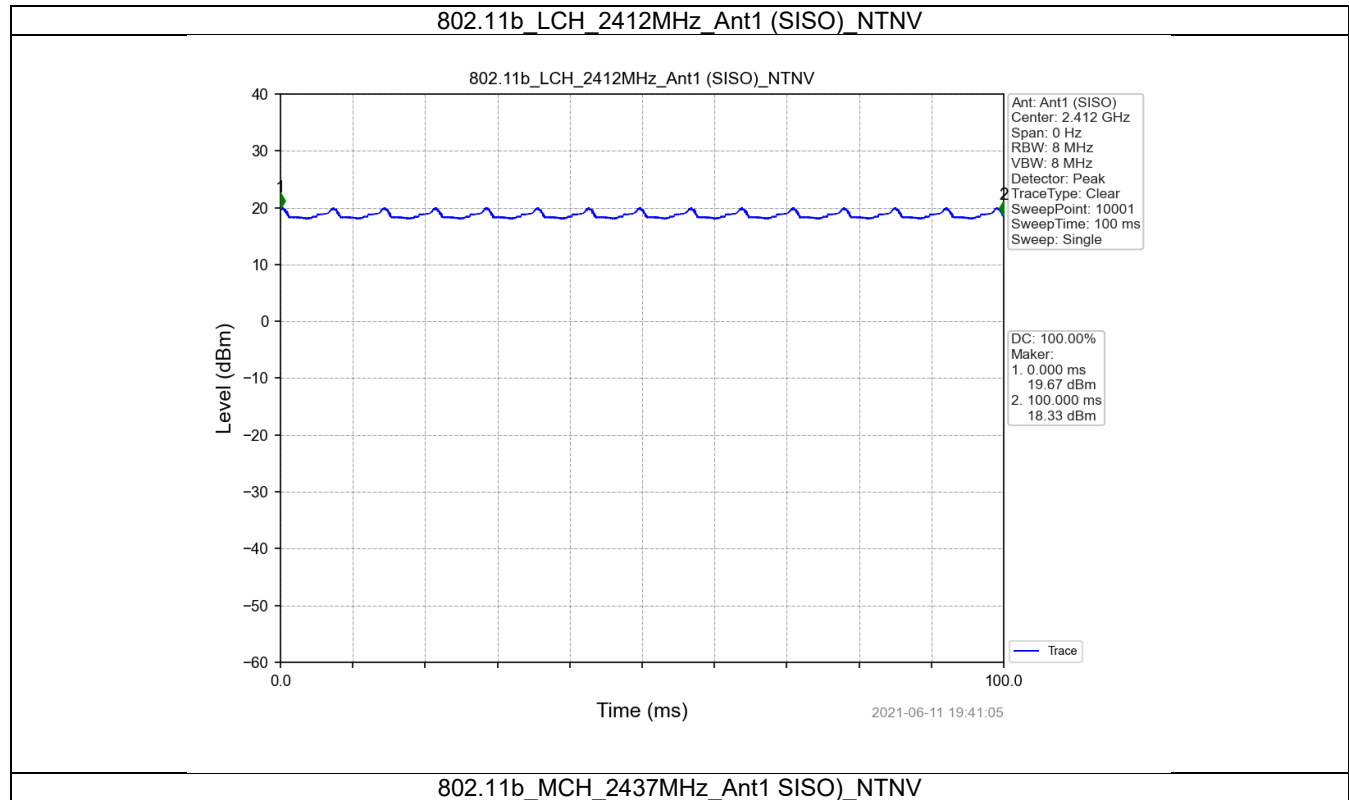
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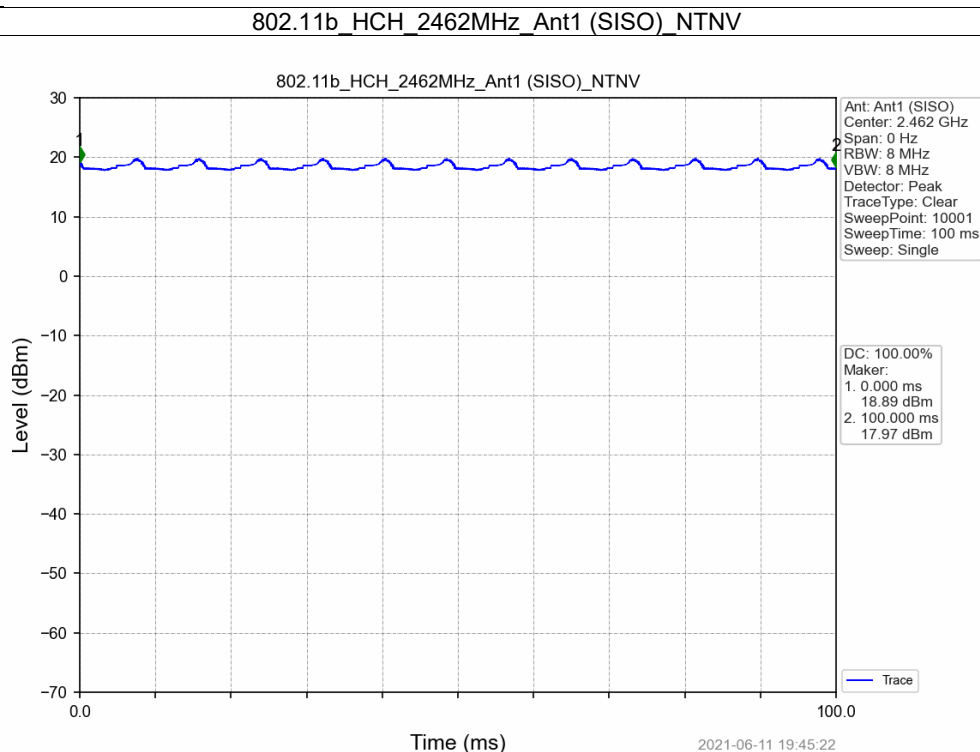
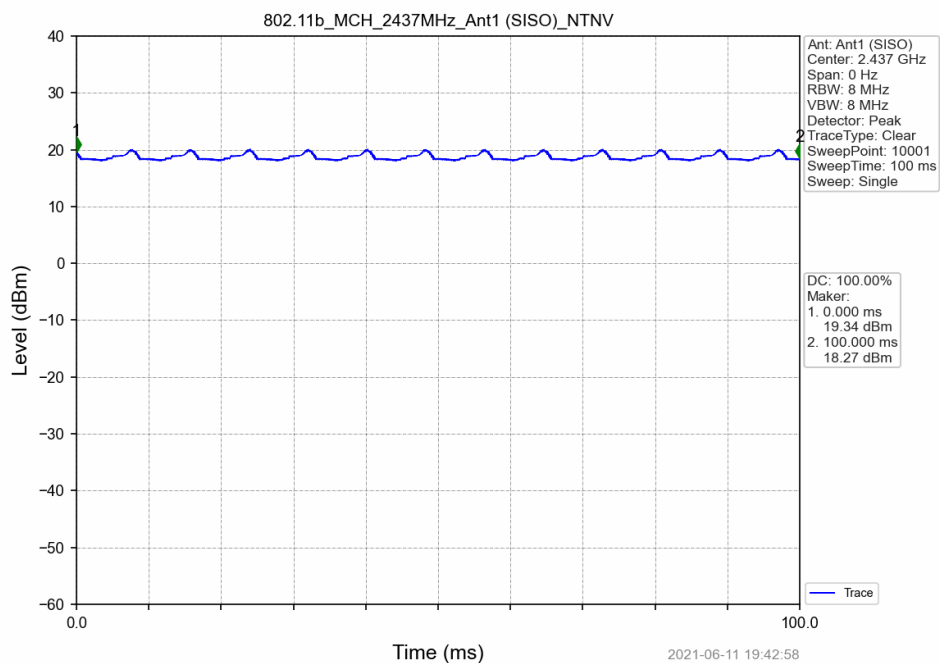
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1.1.2 Test Graph



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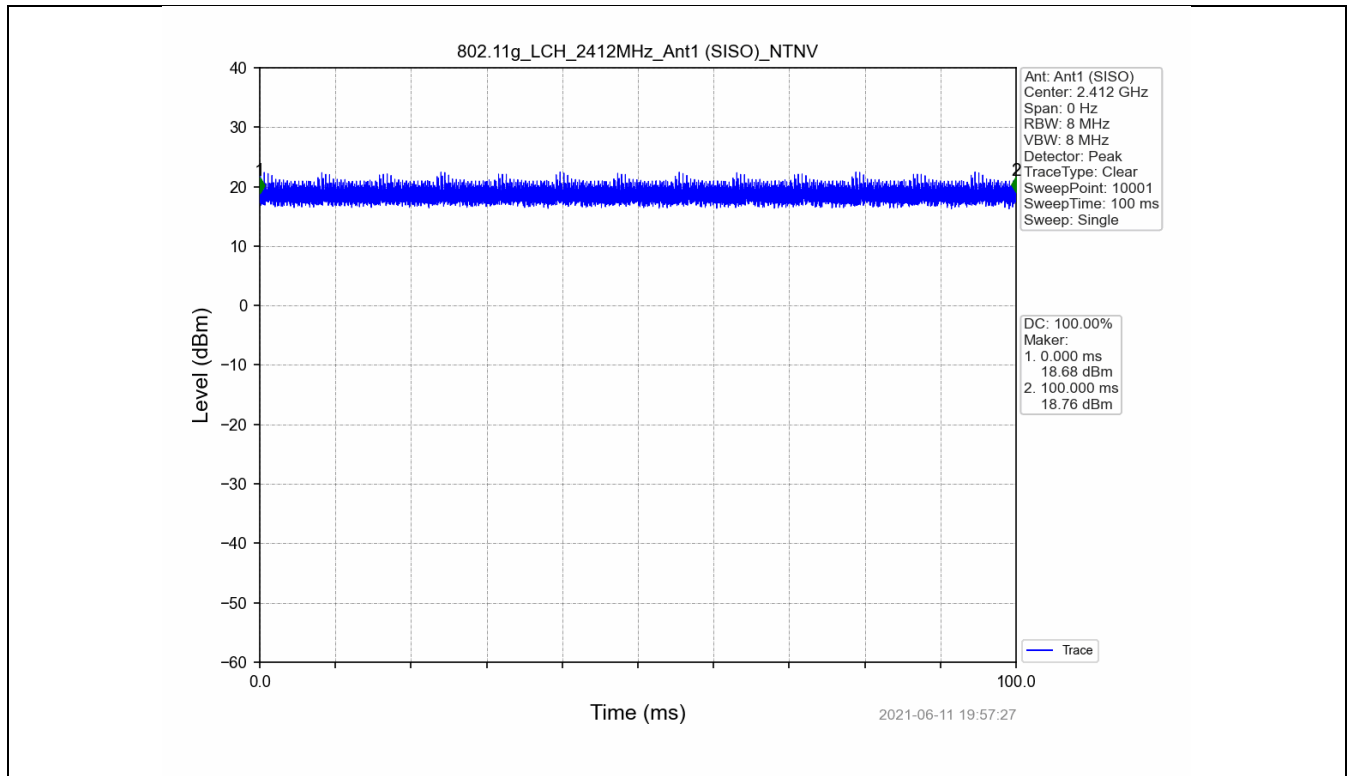


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



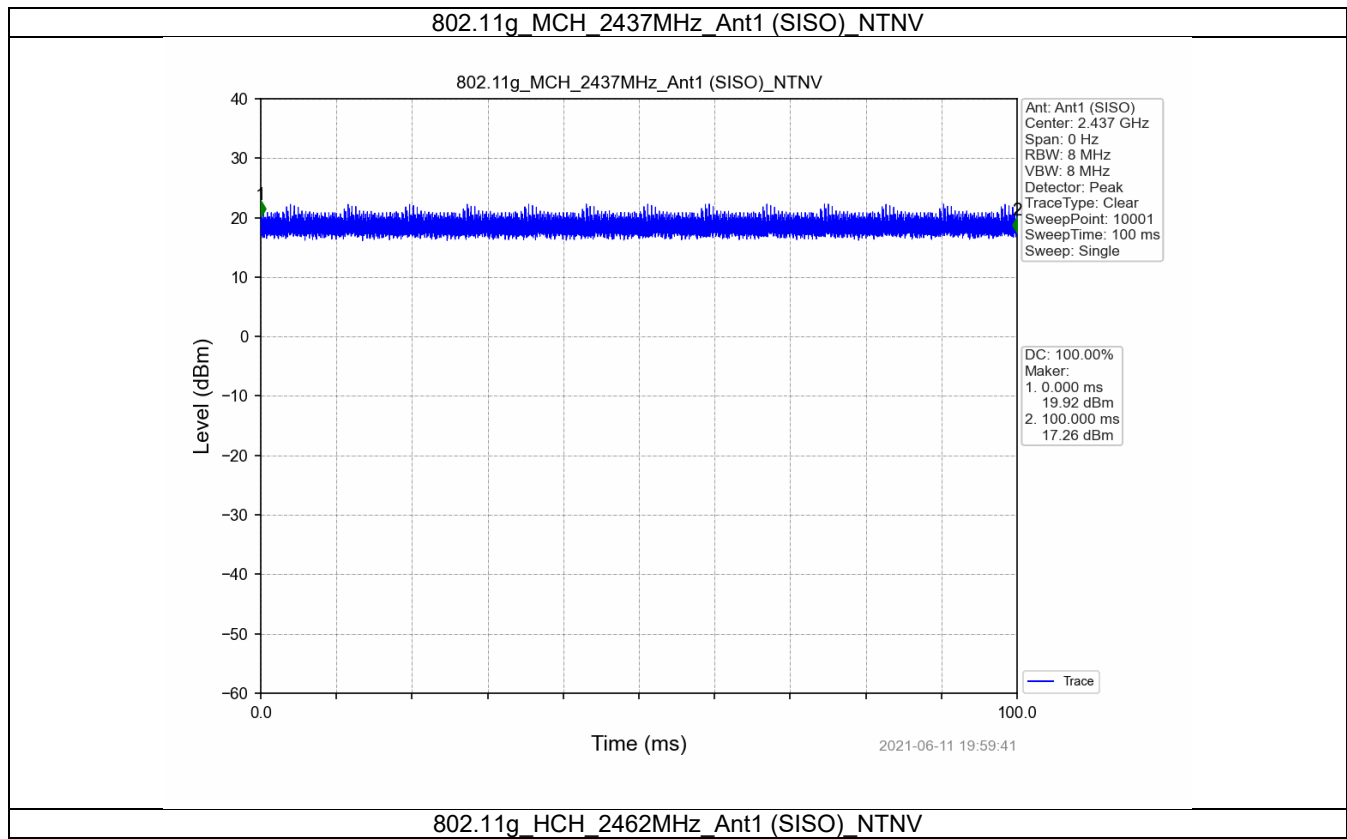
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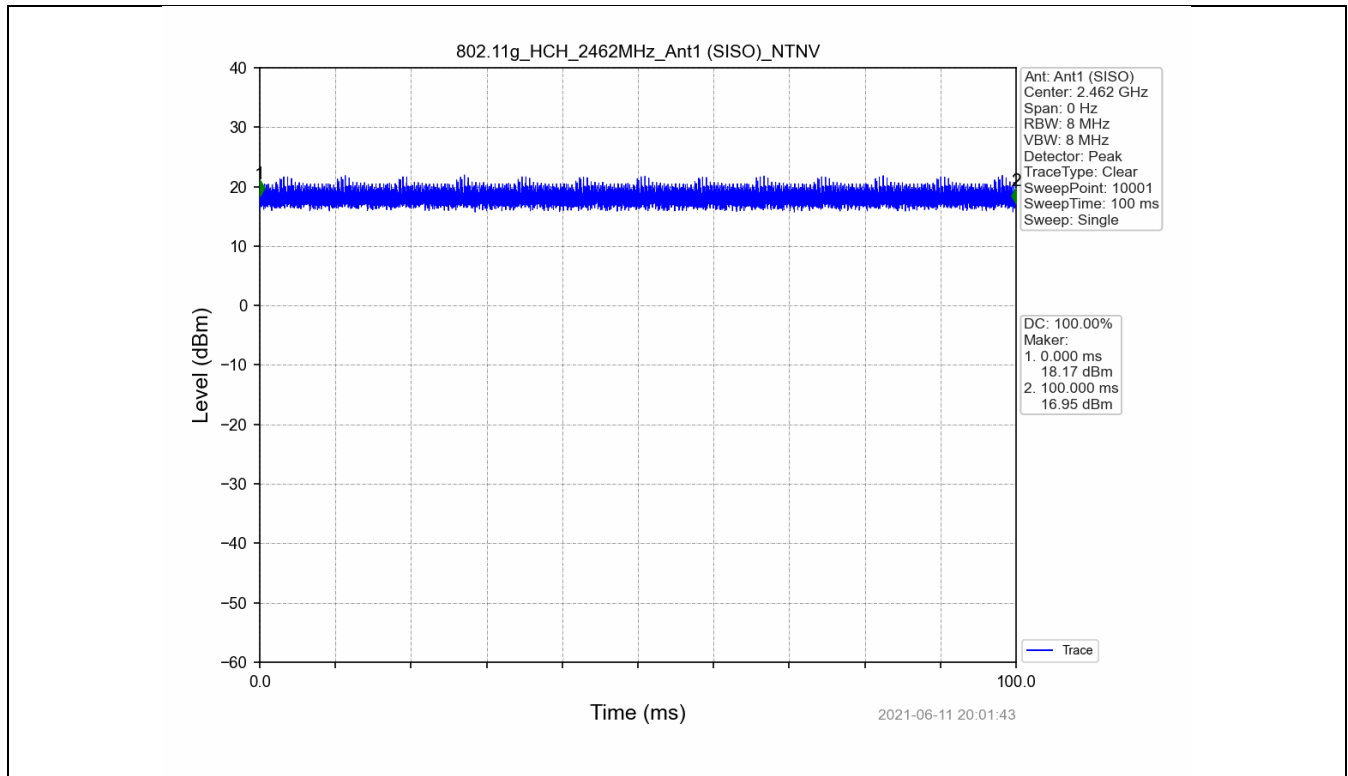
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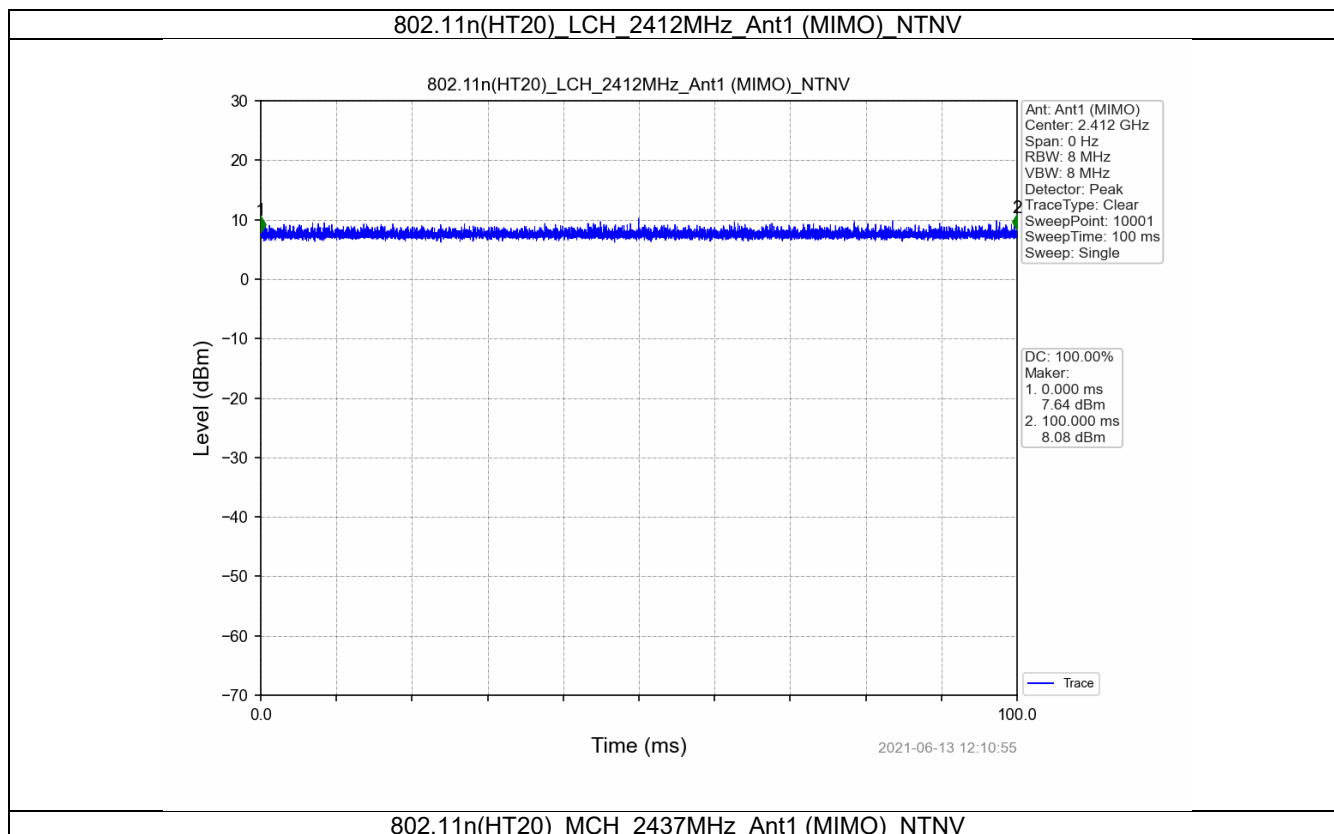
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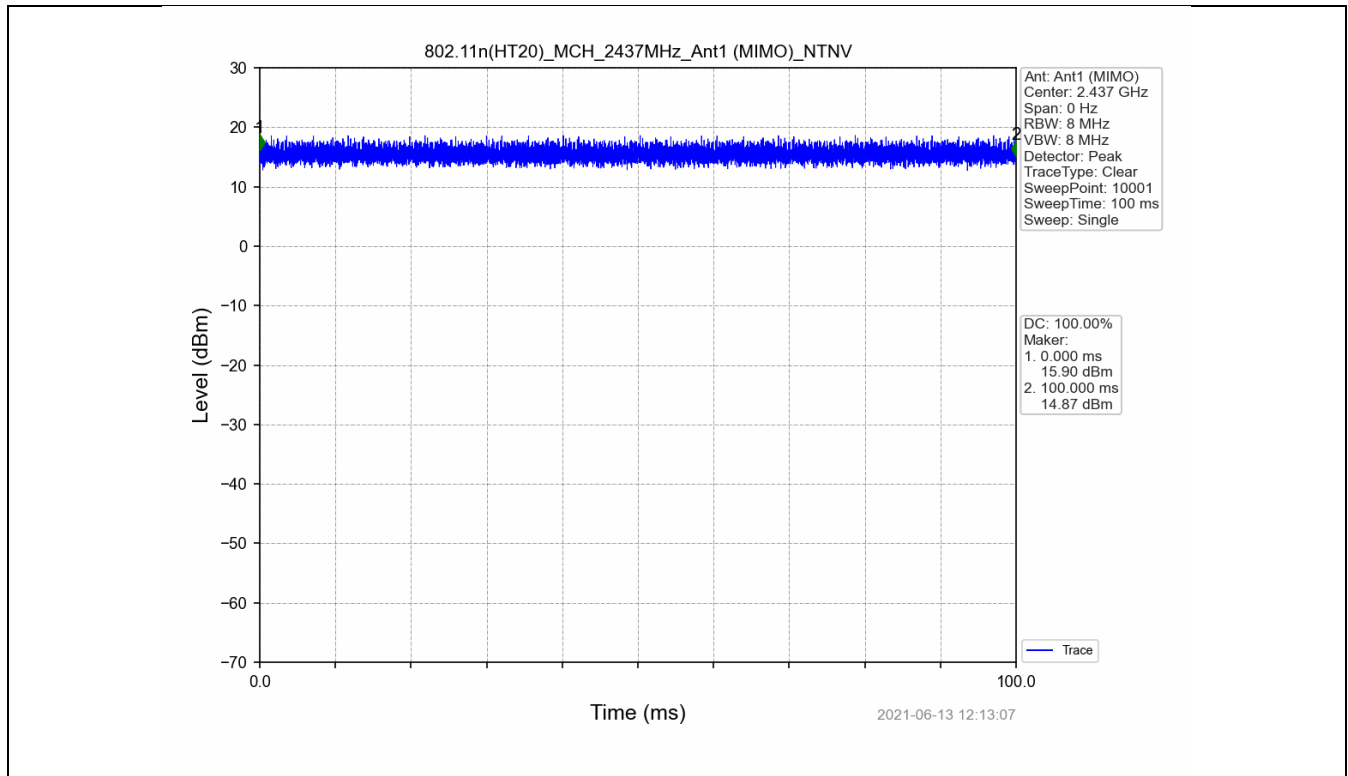




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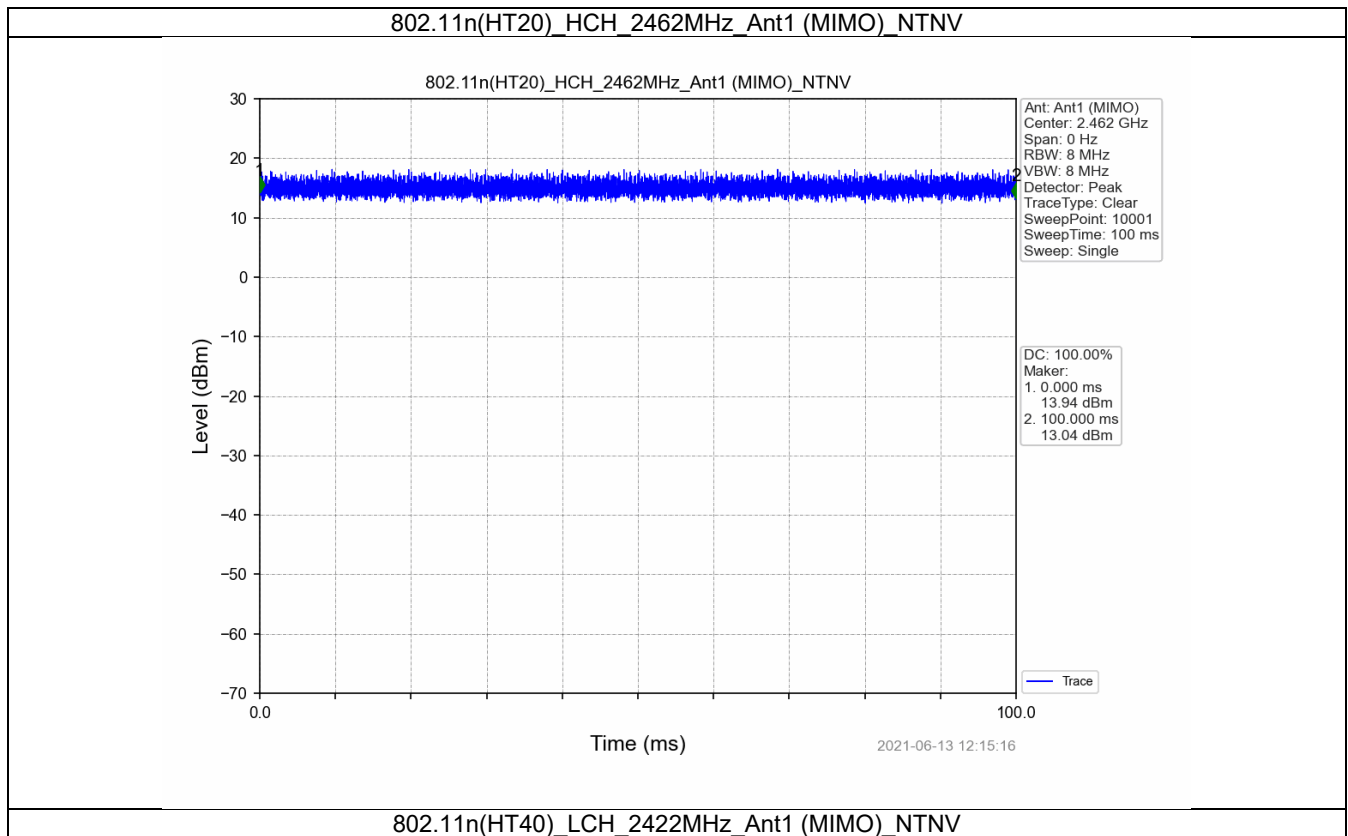
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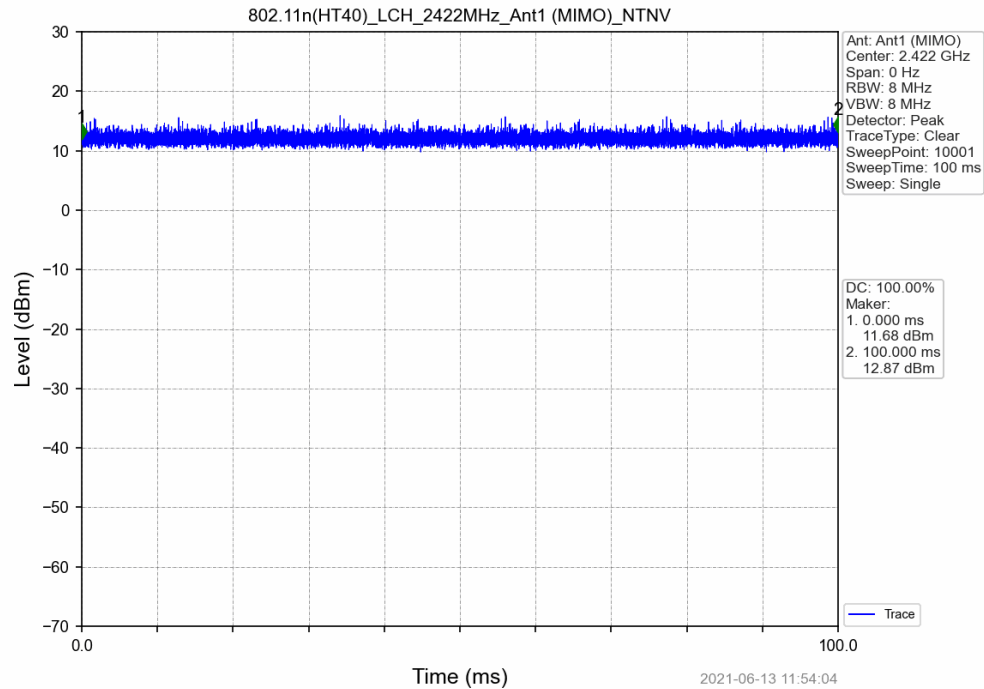
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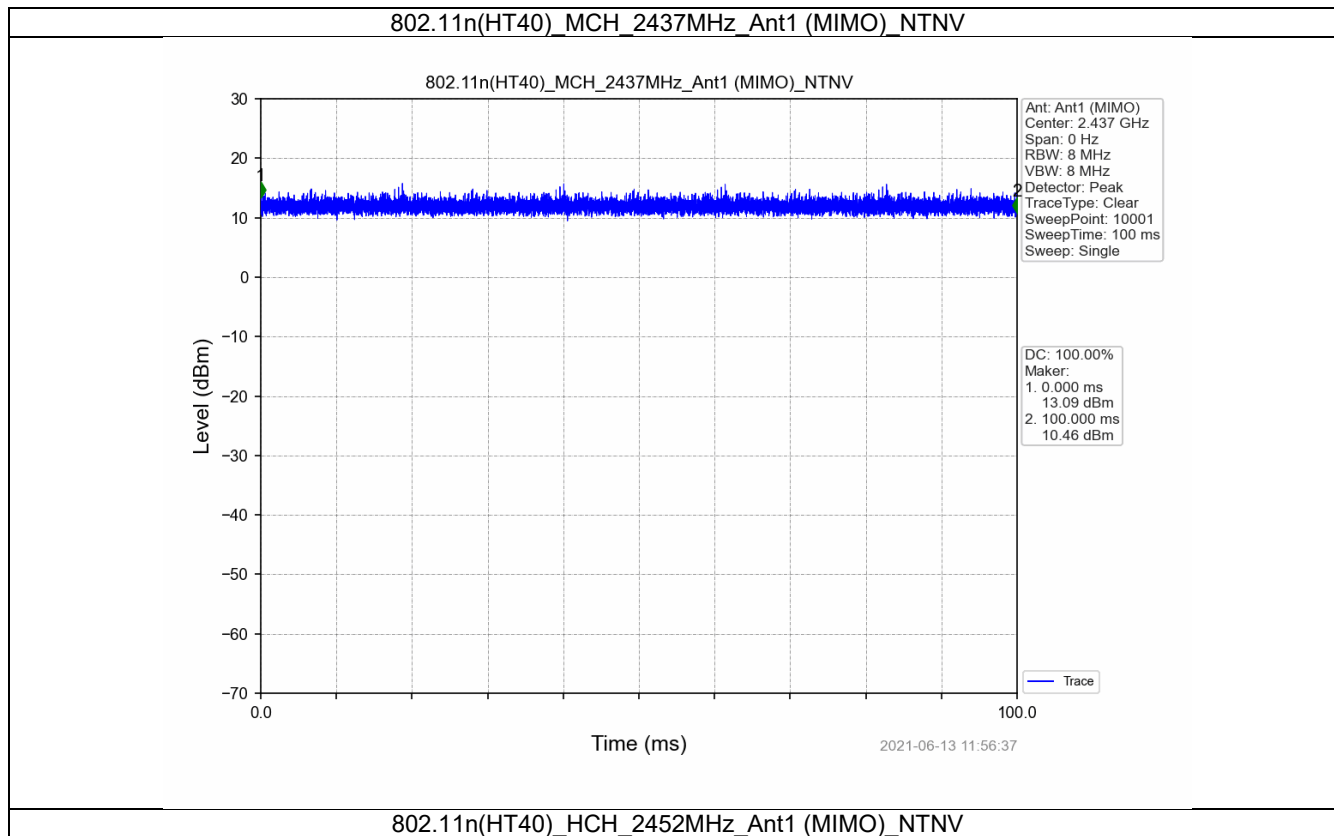
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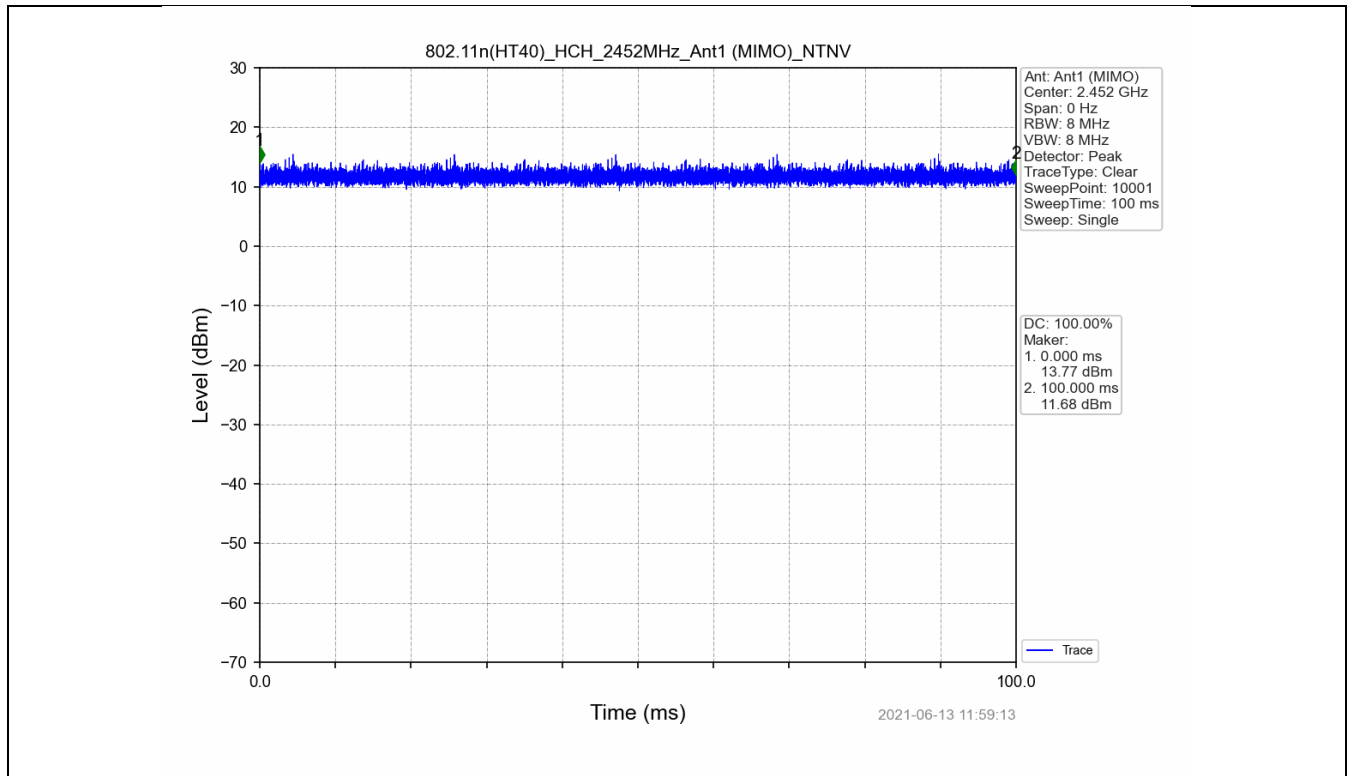


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2. Bandwidth

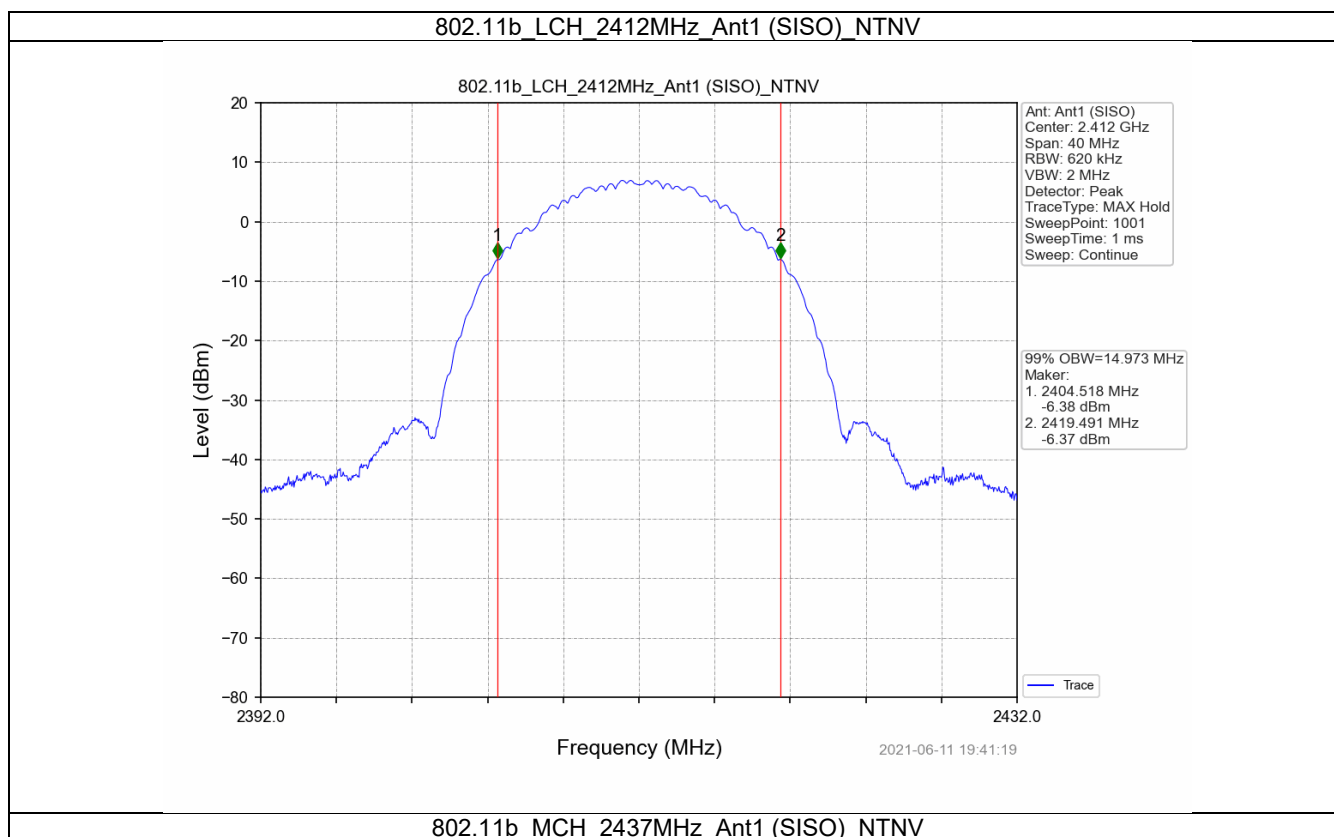
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)		Limit (MHz)	Verdict
					Ant1	Ant2		
802.11b	SISO	2412	/	/	14.973	/	/	Note1
		2437	/	/	14.966	/	/	Note1
		2462	/	/	14.988	/	/	Note1
802.11g	SISO	2412	/	/	17.791	/	/	Note1
		2437	/	/	17.791	/	/	Note1
		2462	/	/	17.795	/	/	Note1
802.11n (HT20)	MIMO	2412	/	/	18.602	/	/	Note1
		2437	/	/	18.608	/	/	Note1
		2462	/	/	18.617	/	/	Note1
802.11n (HT40)	MIMO	2422	/	/	36.211	/	/	Note1
		2437	/	/	36.209	/	/	Note1
		2452	/	/	36.226	/	/	Note1

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2.1.2 Test Graph



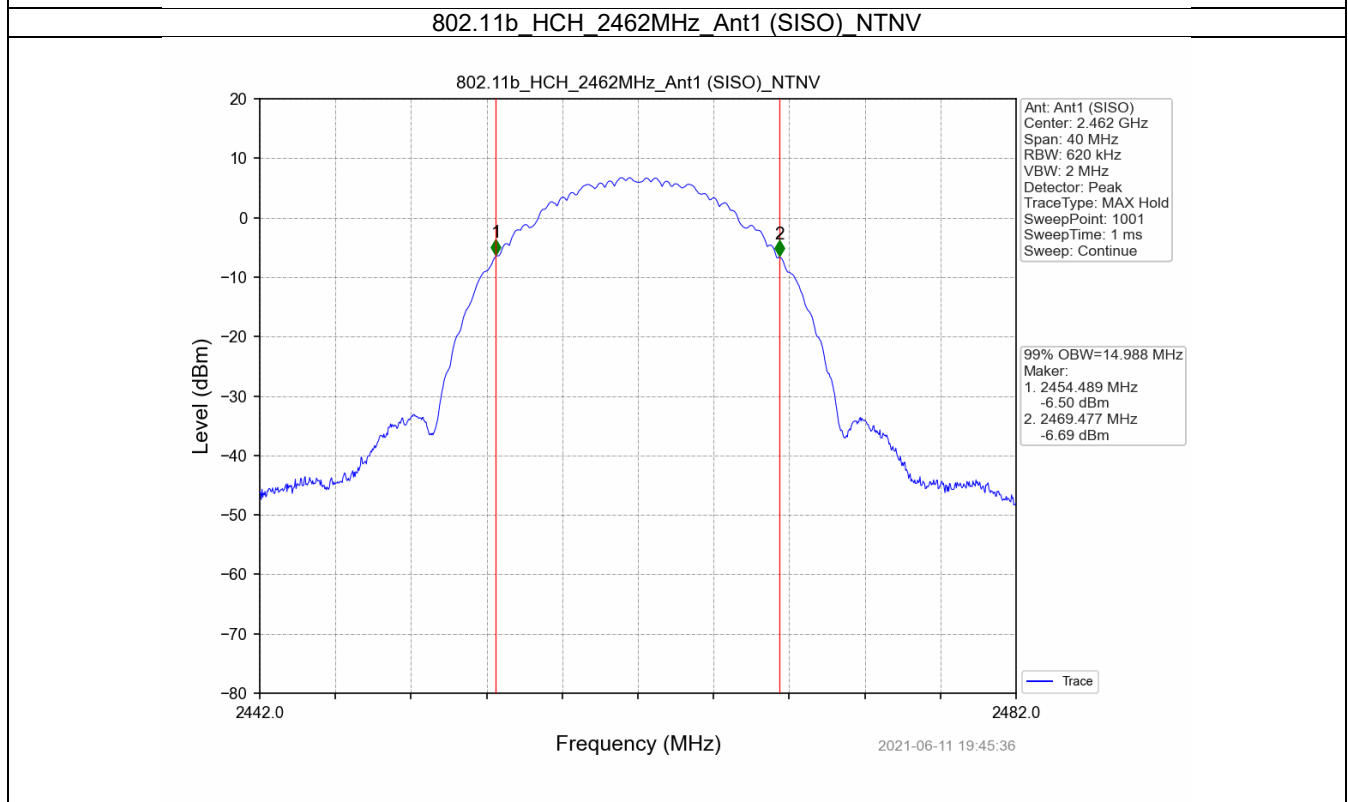
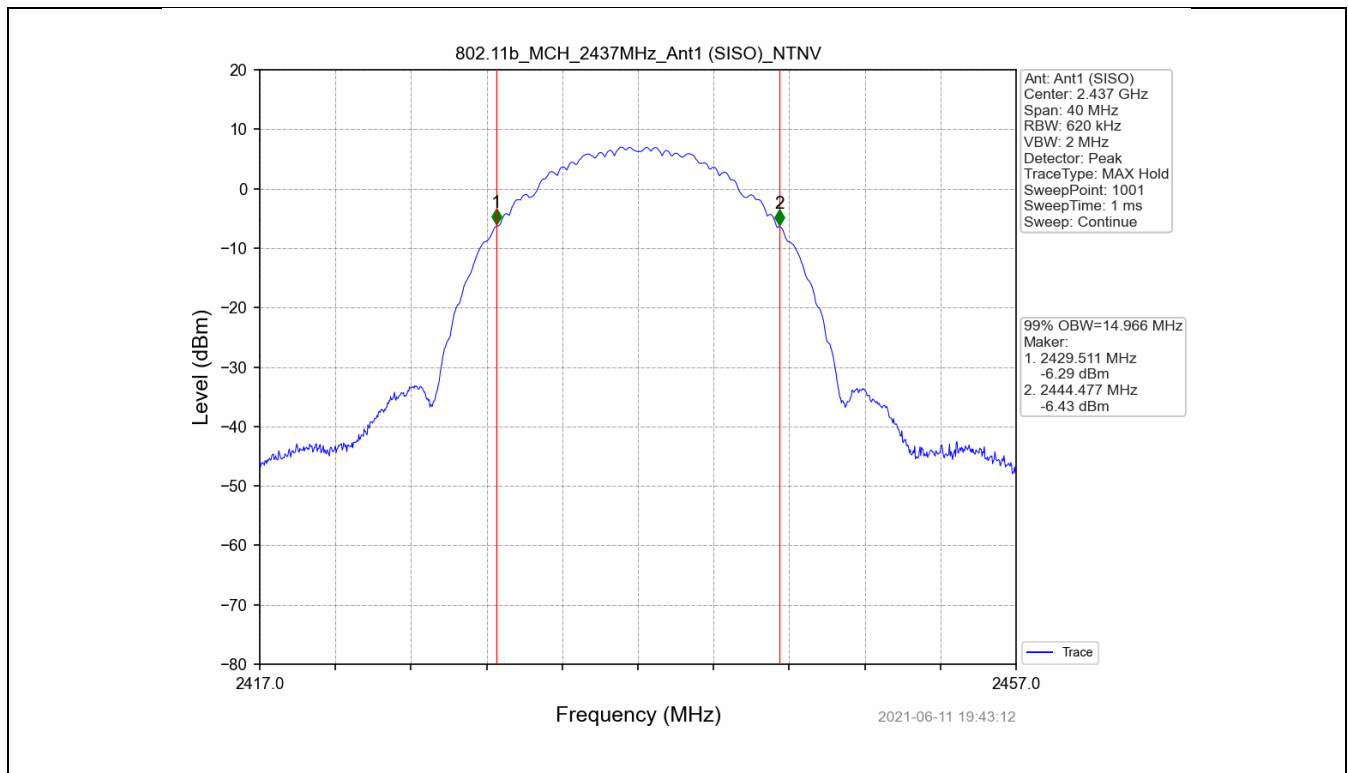
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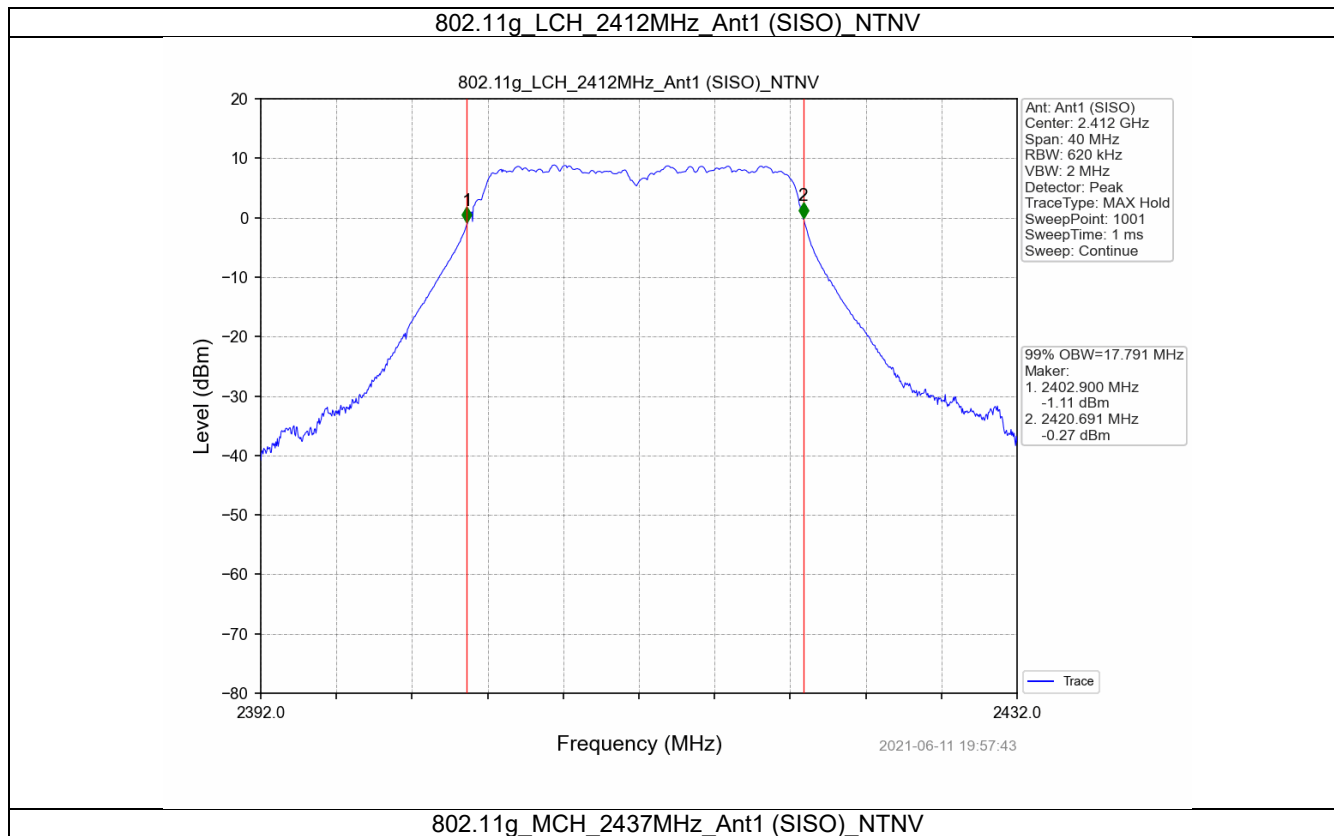
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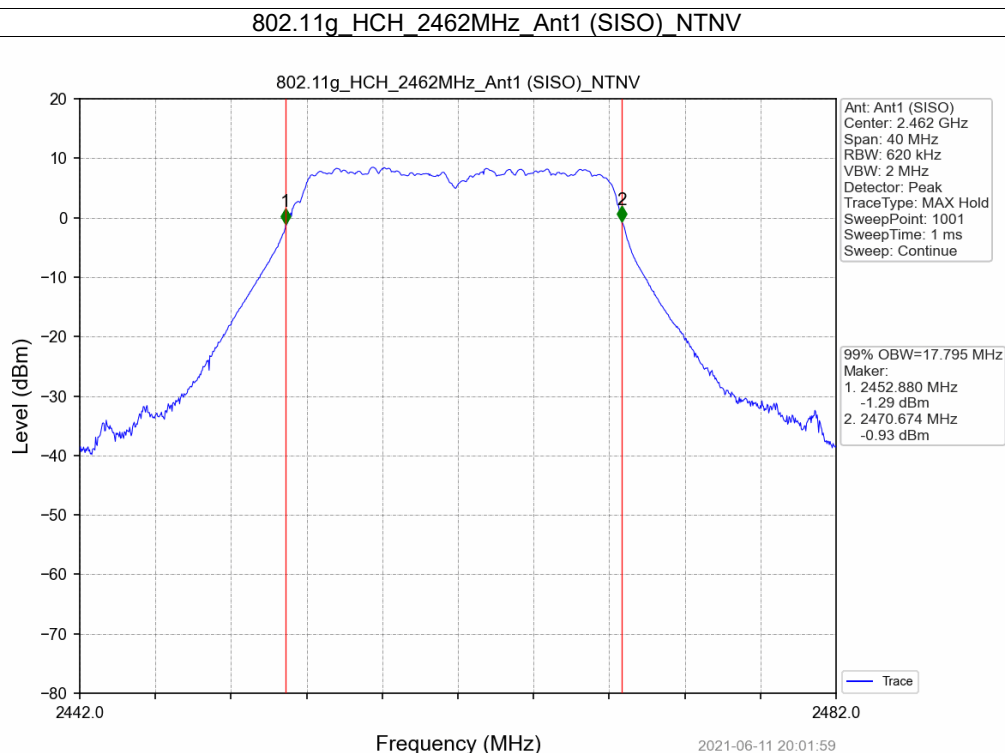
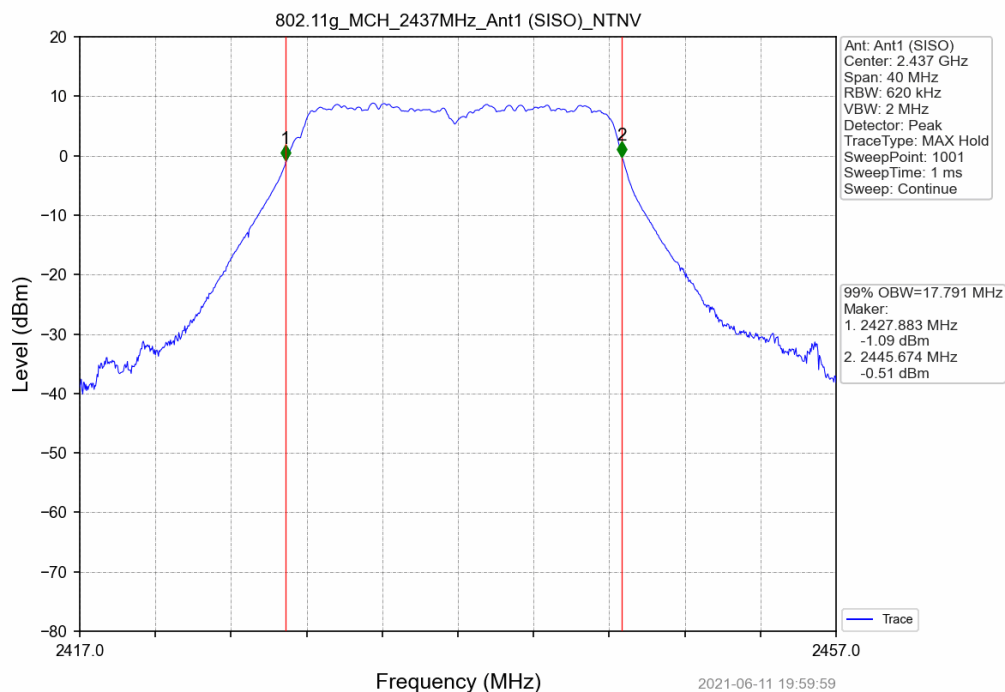
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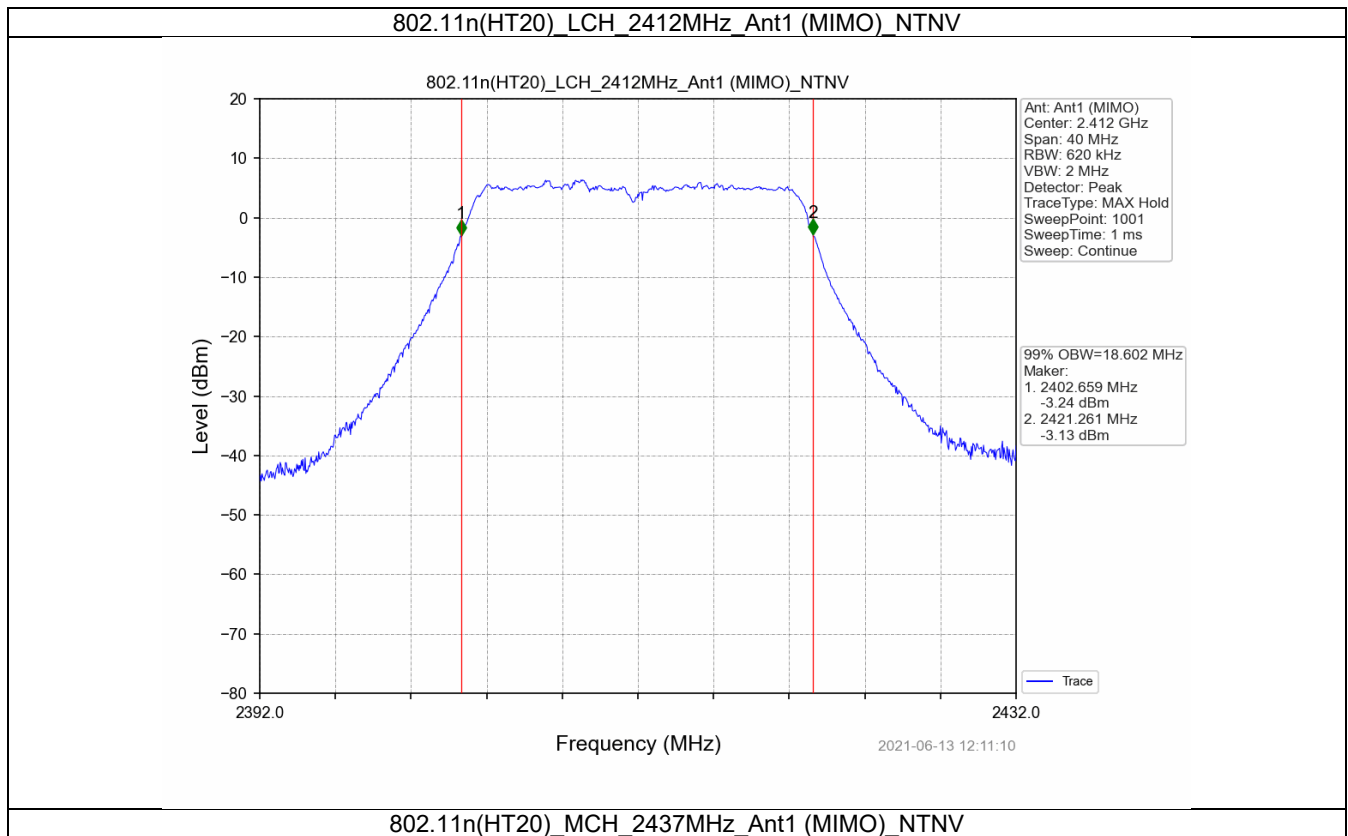
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV





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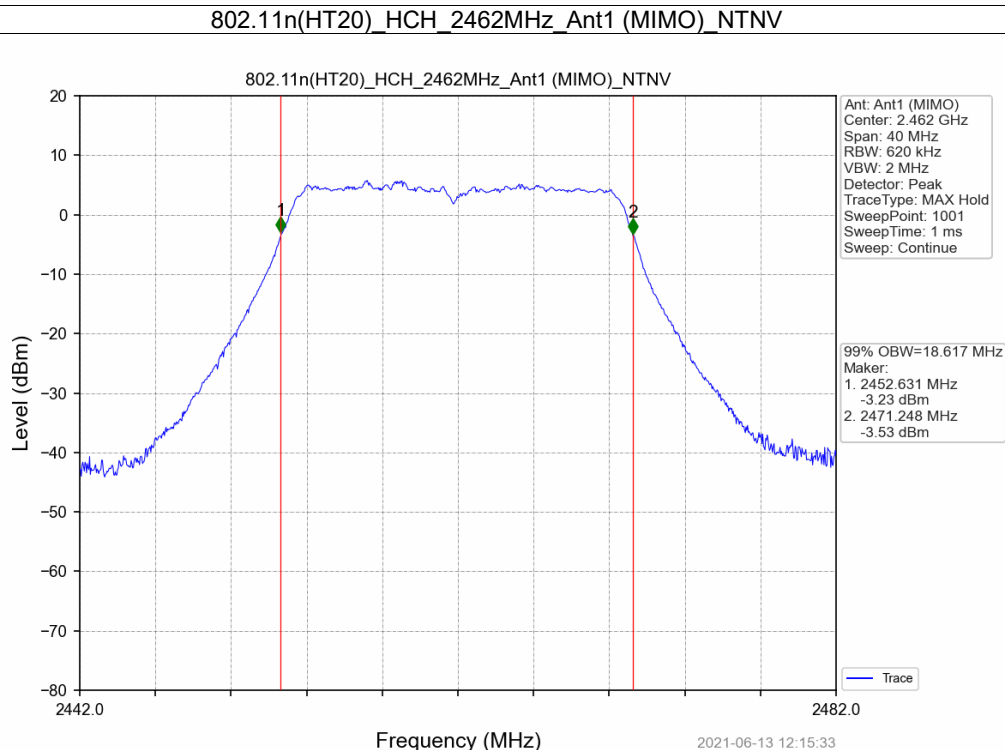
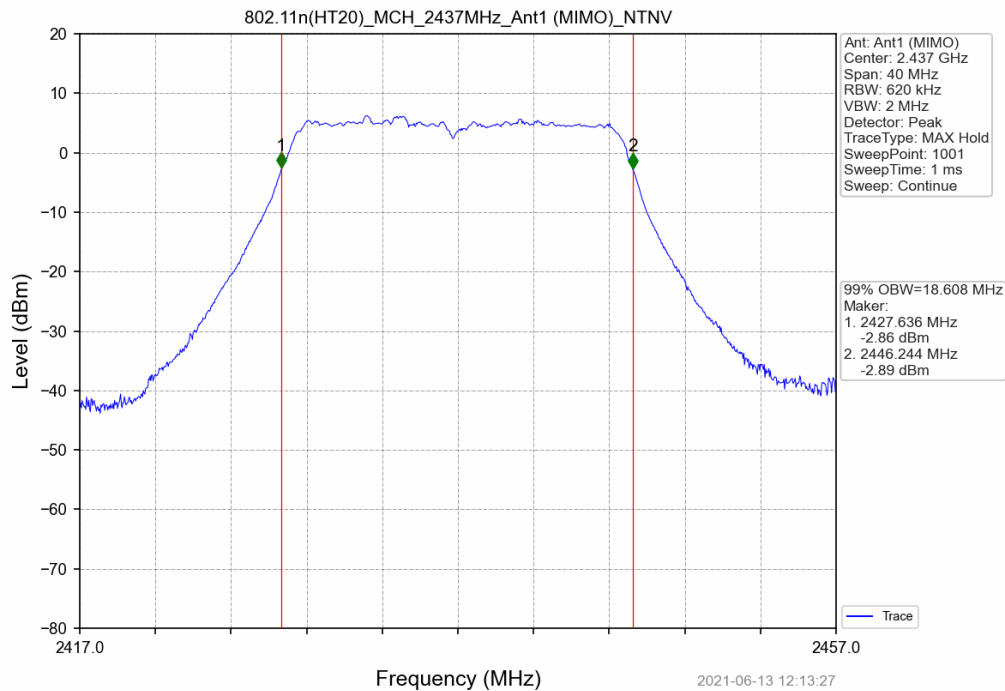


802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



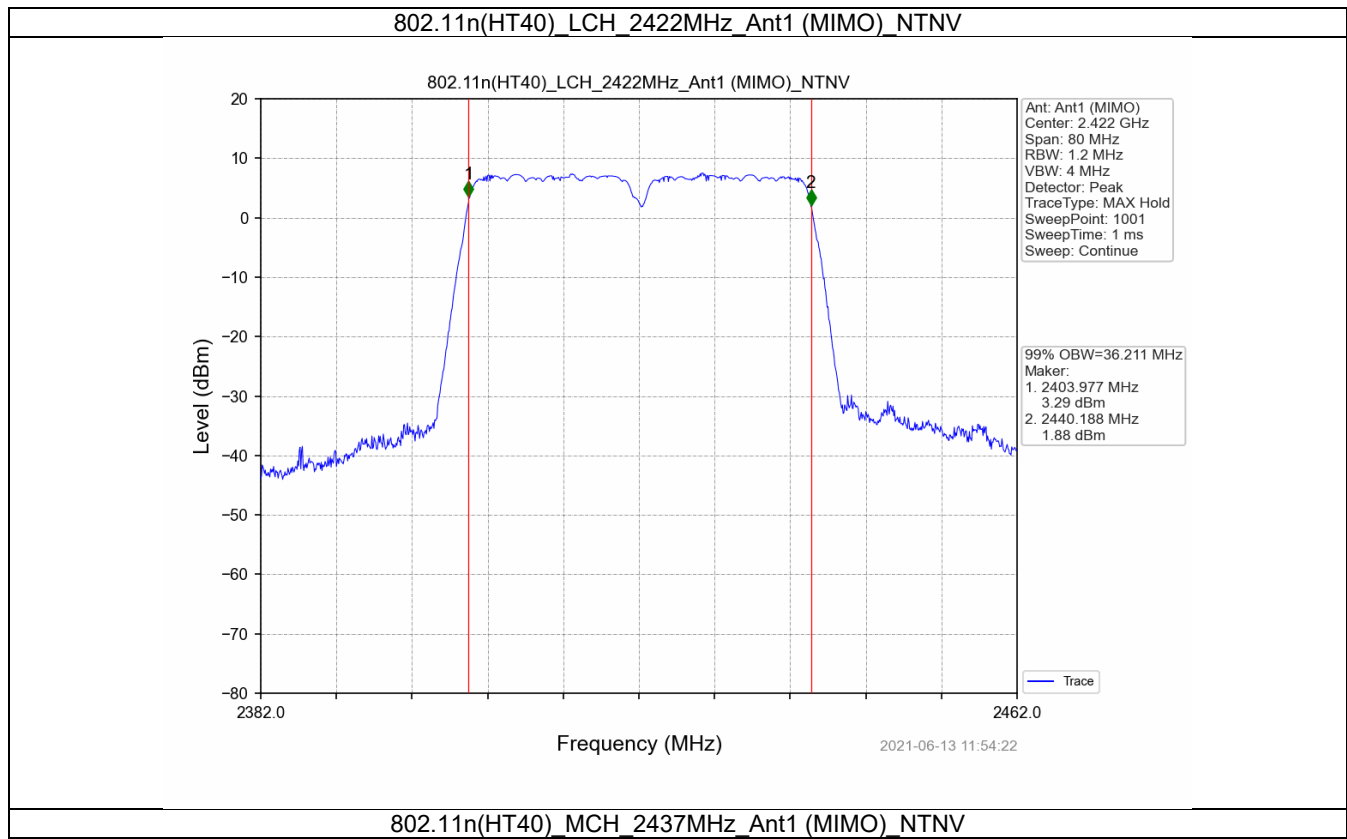
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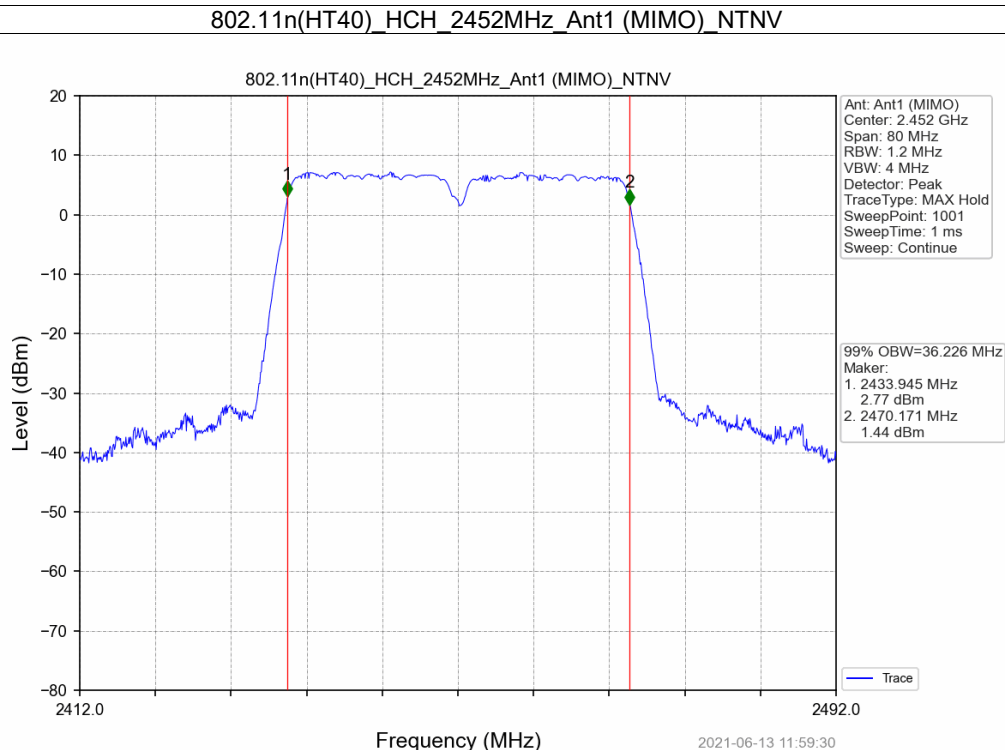
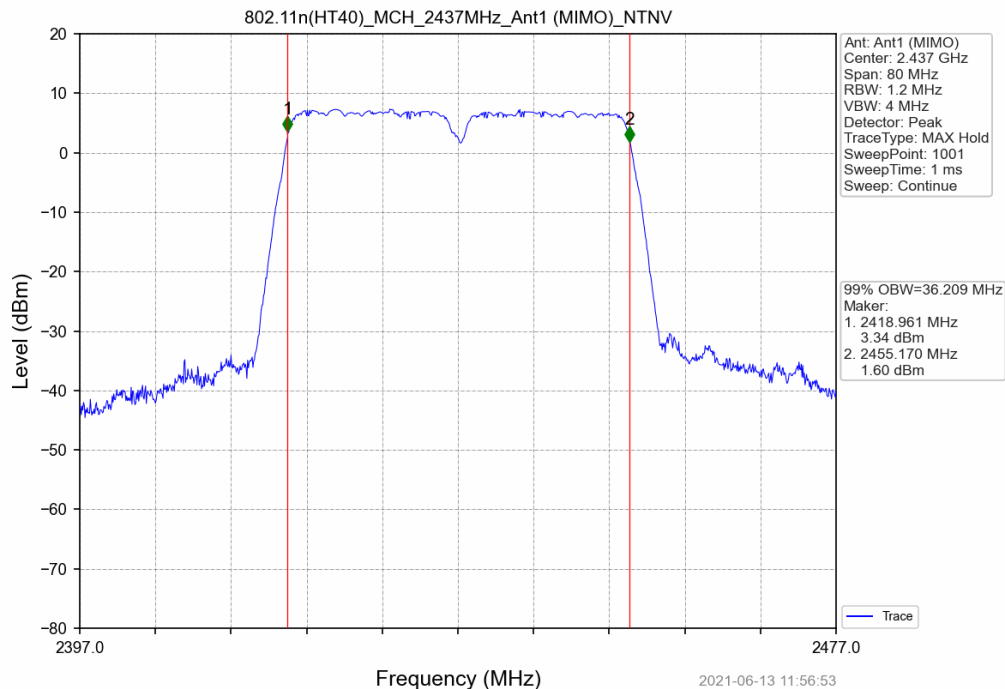
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2.2 XDB

2.2.1 Test Result

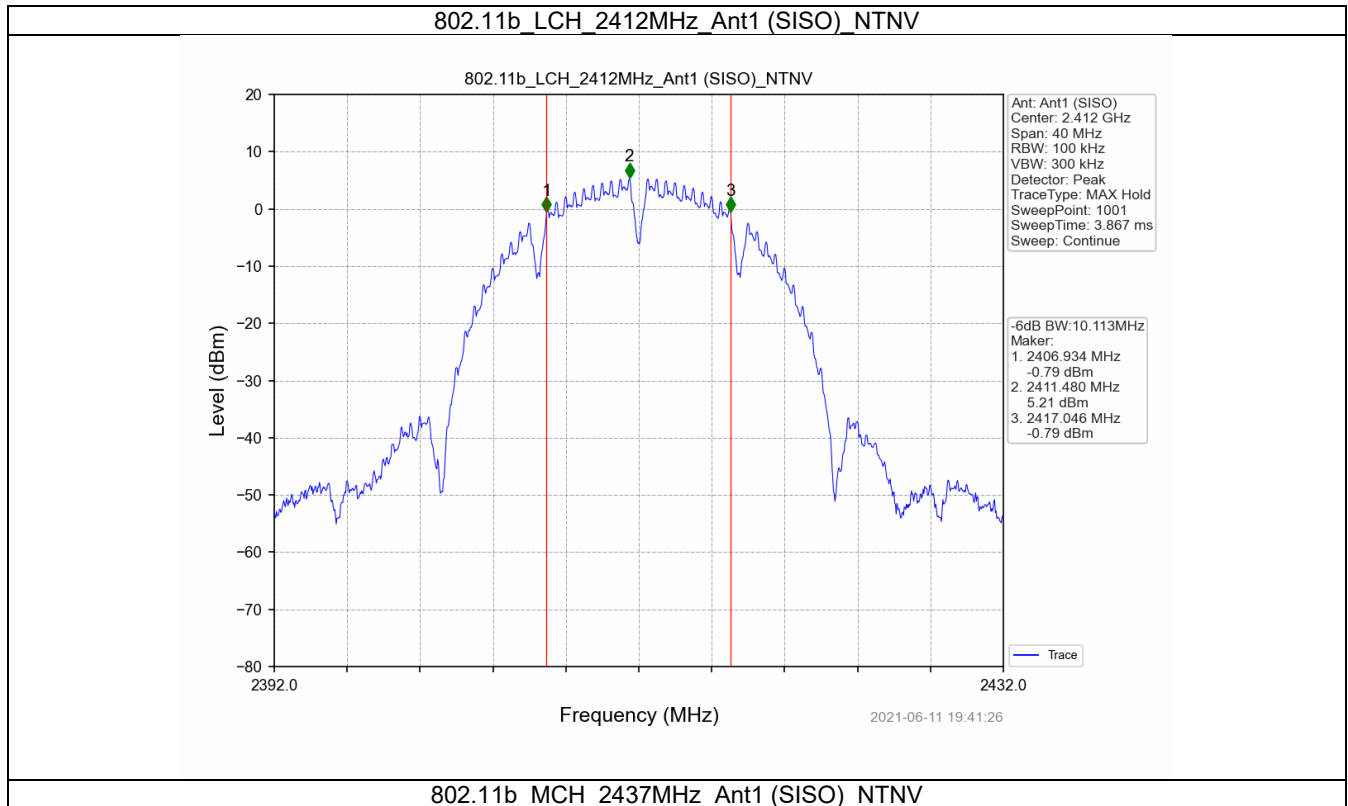
Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)		Limit (MHz)	Verdict
					Ant1	Ant2		
802.11b	SISO	2412	/	/	10.113	/	≥ 0.5	Pass
		2437	/	/	10.111	/	≥ 0.5	Pass
		2462	/	/	10.109	/	≥ 0.5	Pass
802.11g	SISO	2412	/	/	16.609	/	≥ 0.5	Pass
		2437	/	/	16.608	/	≥ 0.5	Pass
		2462	/	/	16.606	/	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	17.827	/	≥ 0.5	Pass
		2437	/	/	17.810	/	≥ 0.5	Pass
		2462	/	/	17.817	/	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	36.497	/	≥ 0.5	Pass
		2437	/	/	36.486	/	≥ 0.5	Pass
		2452	/	/	36.481	/	≥ 0.5	Pass



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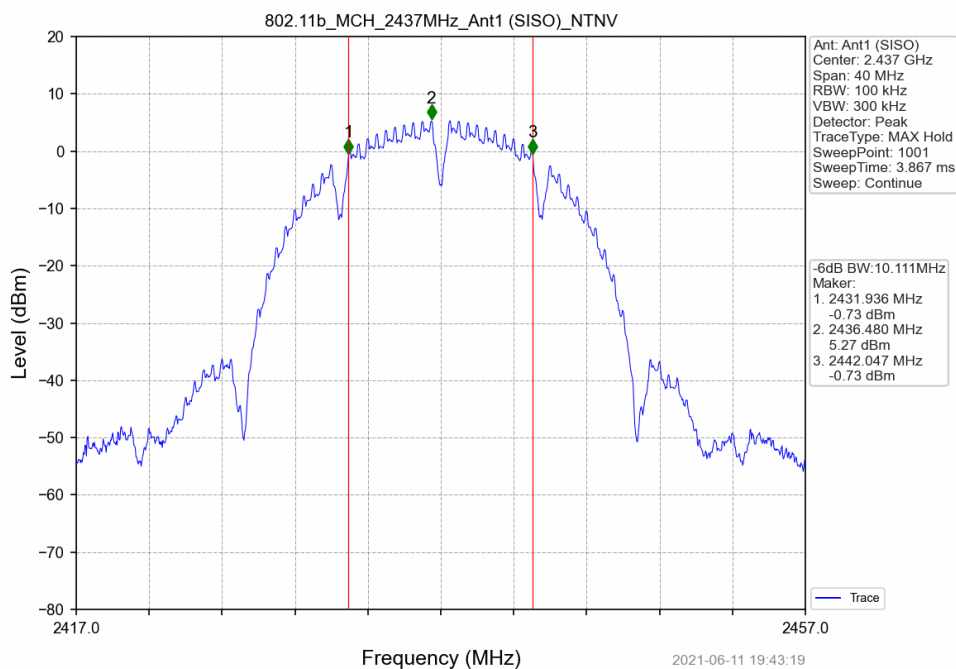
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2.2.2 Test Graph

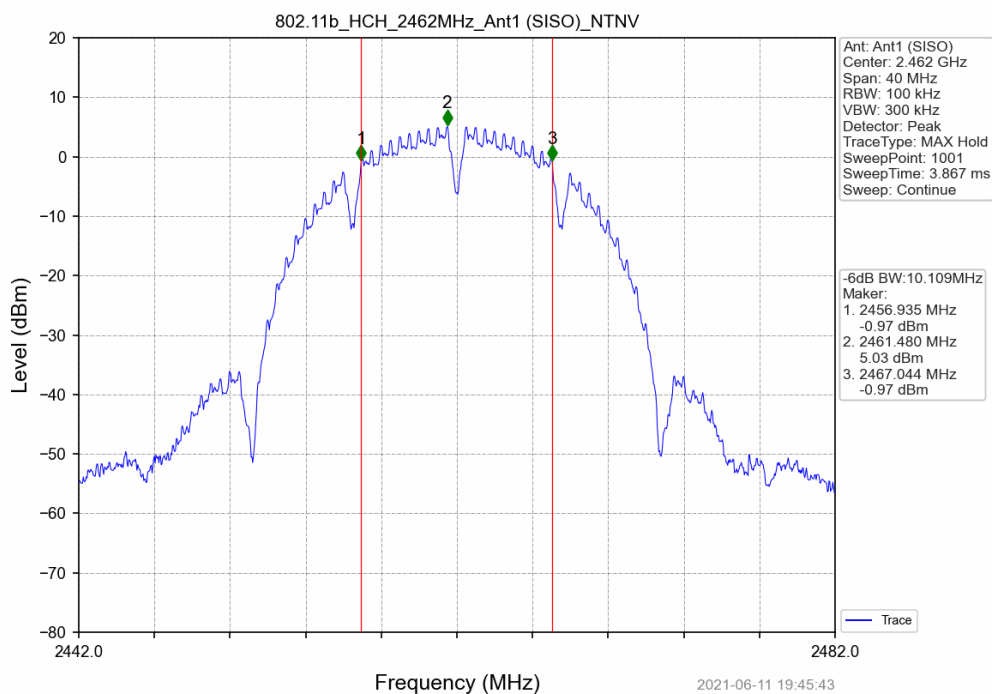


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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

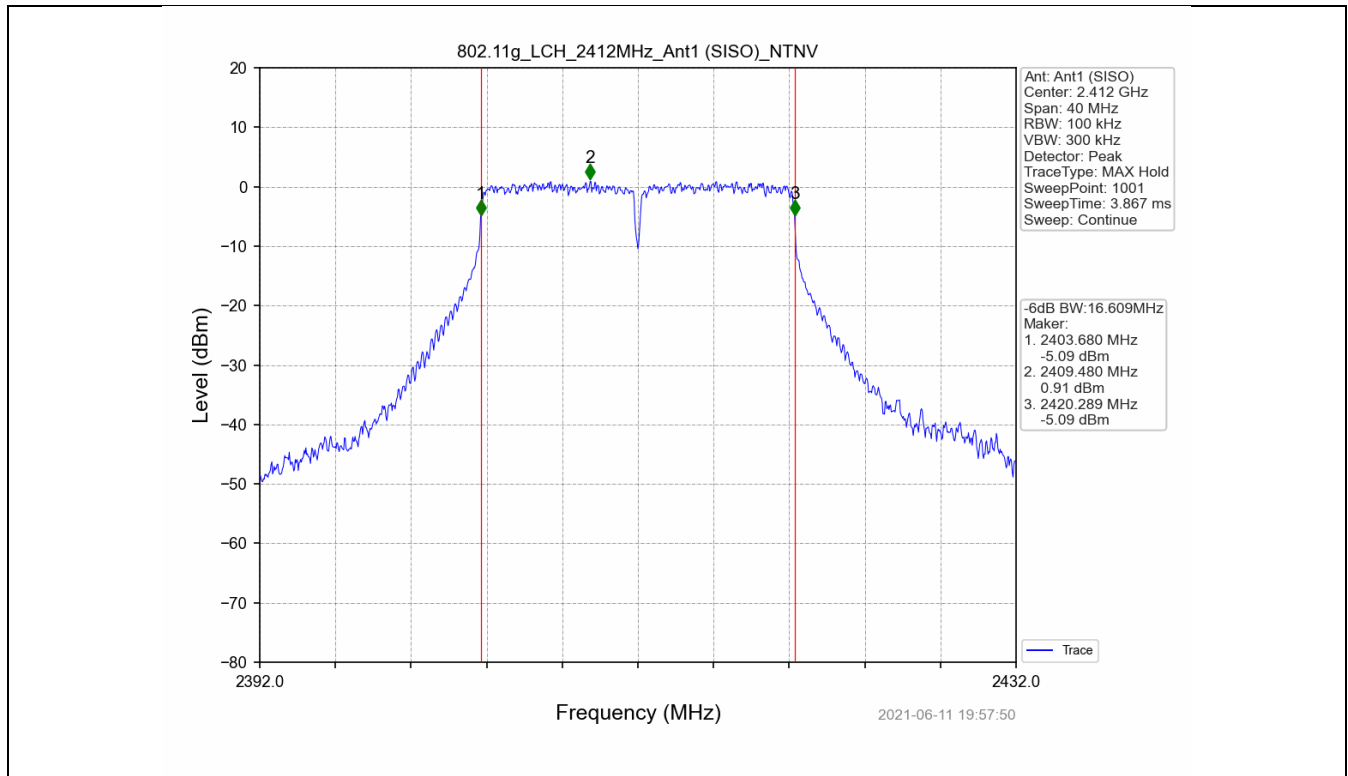


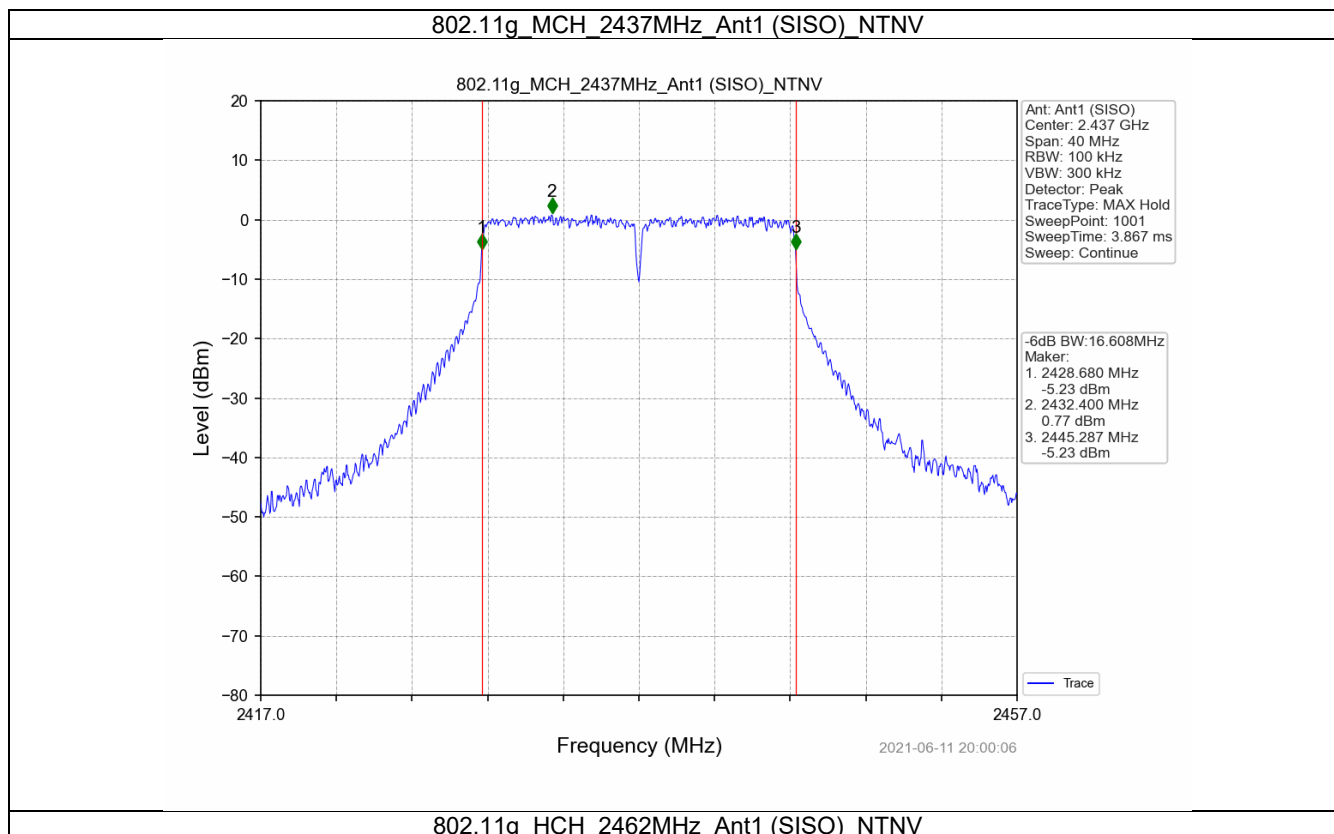
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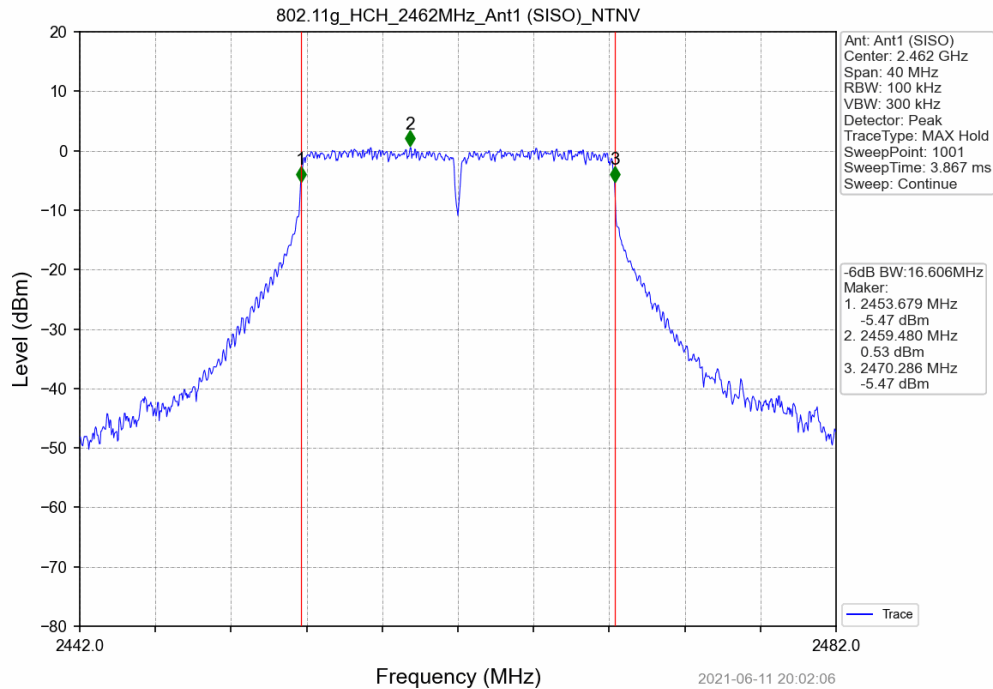
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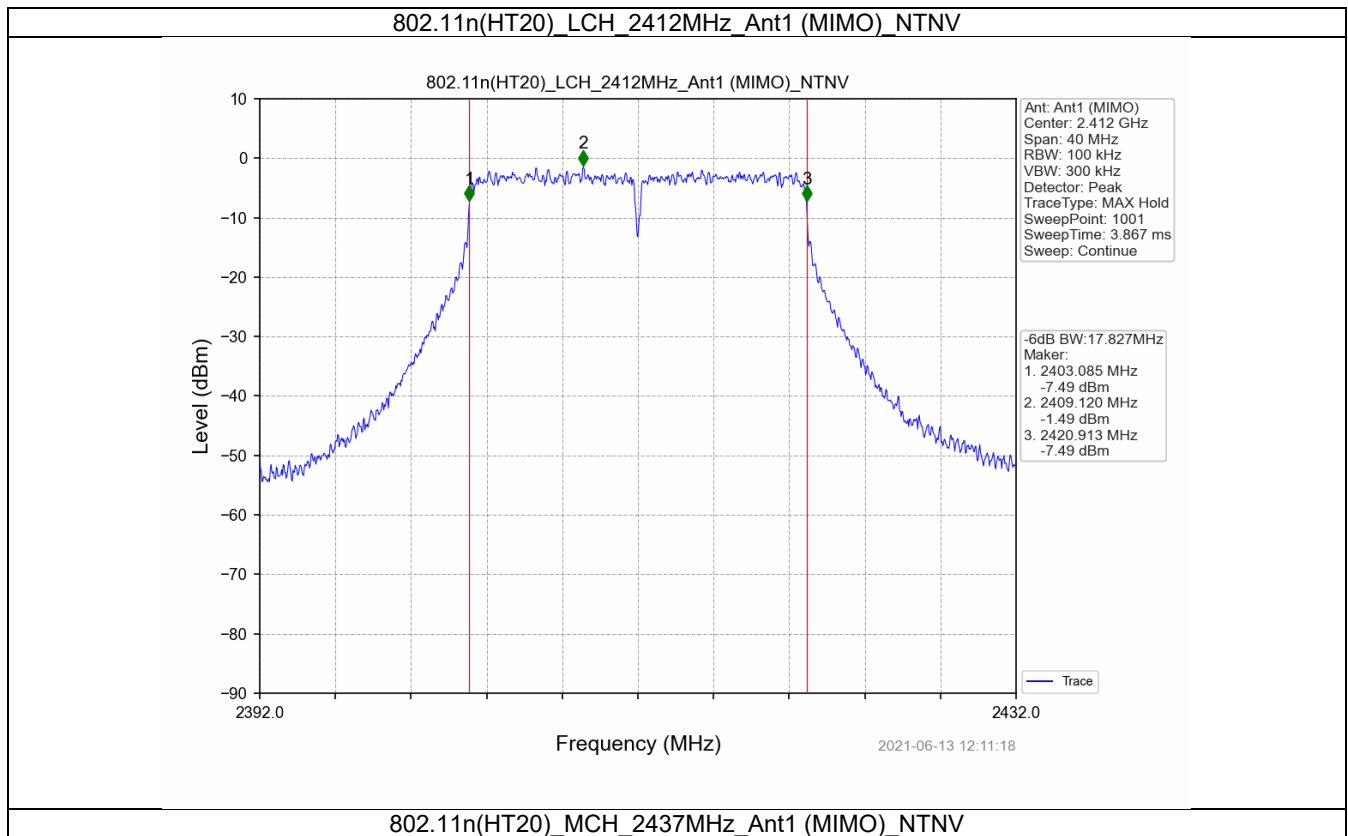
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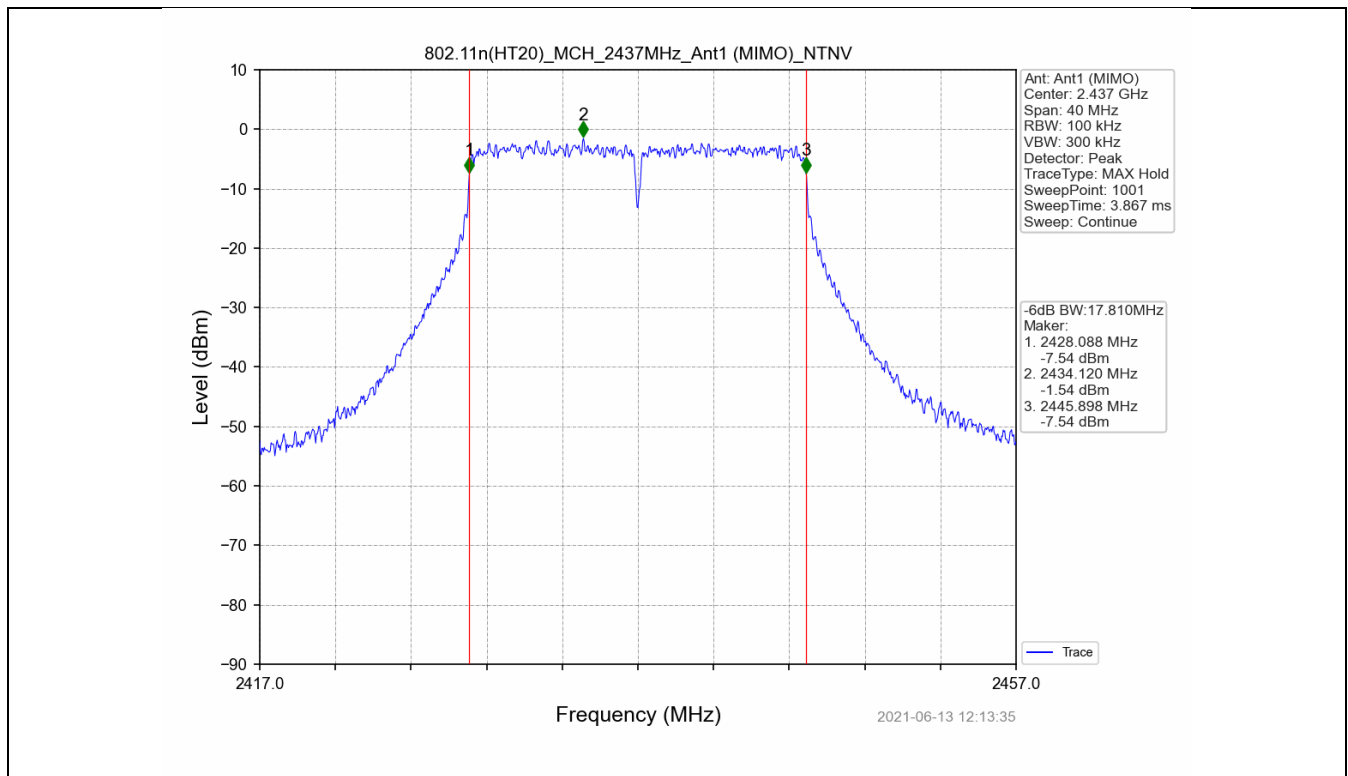






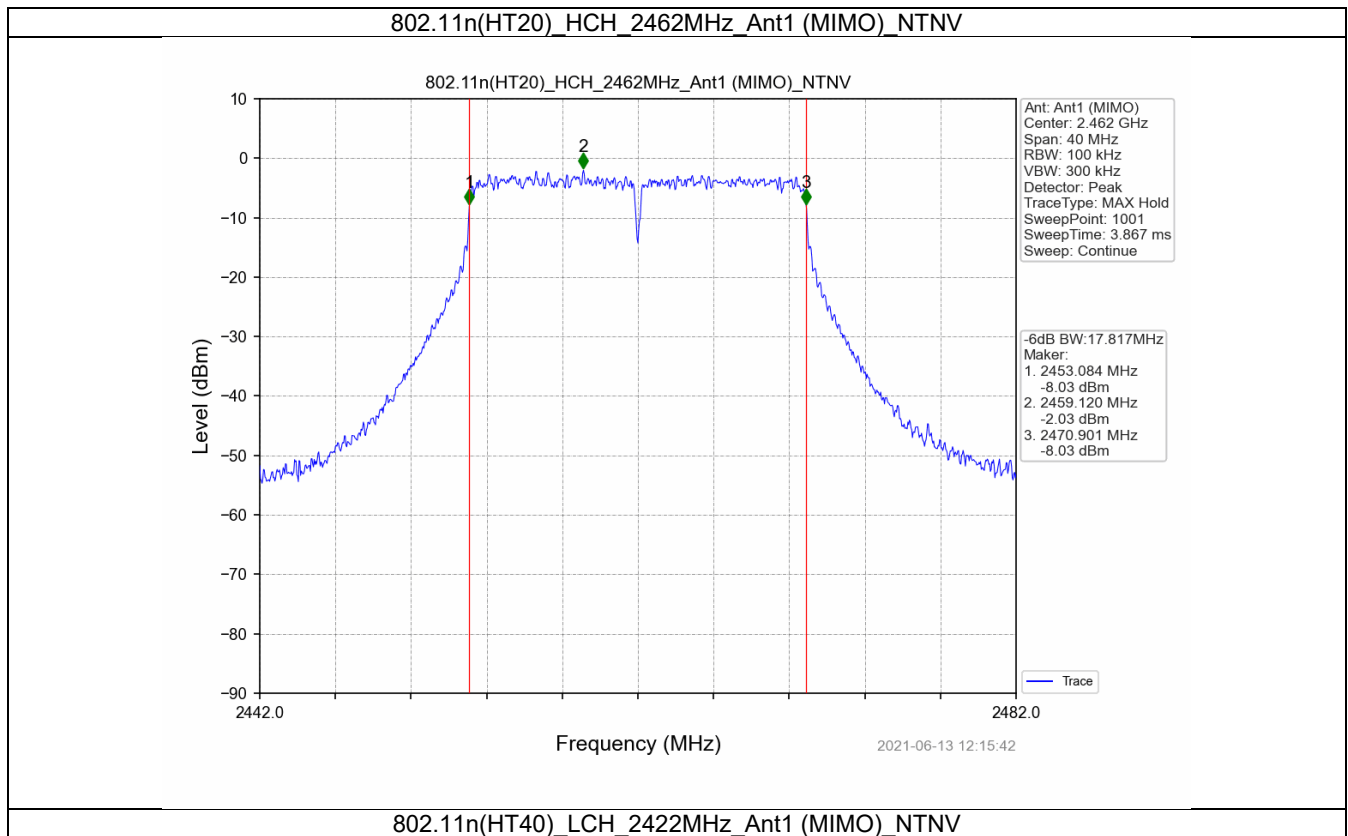






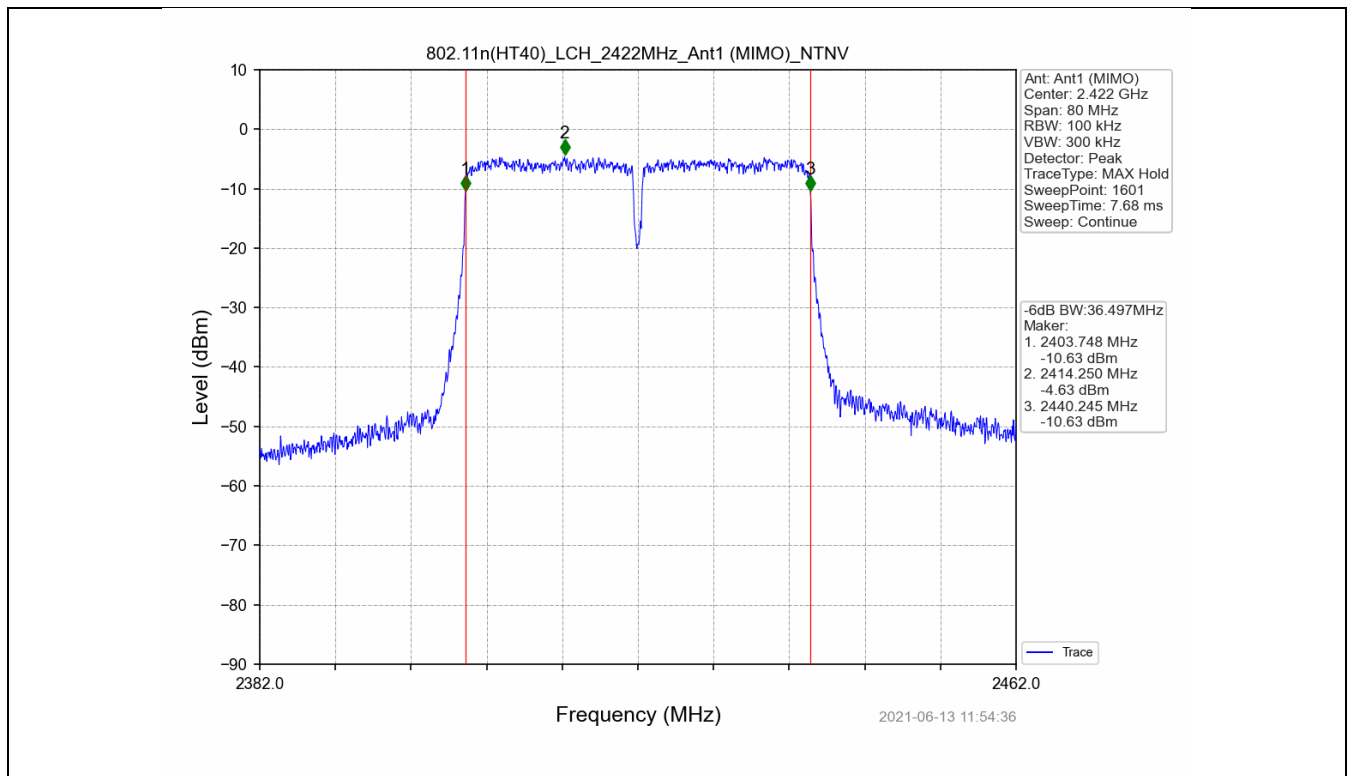
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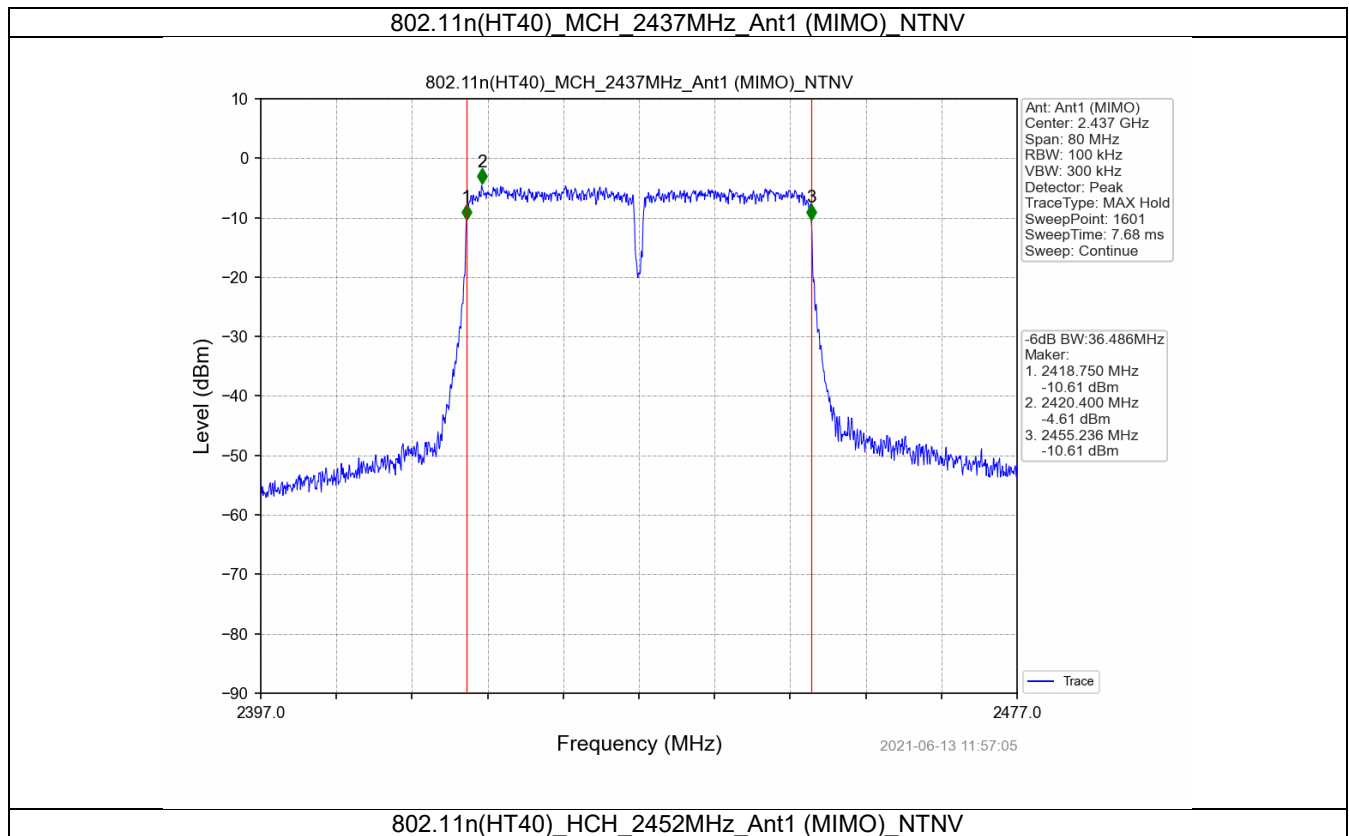
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV





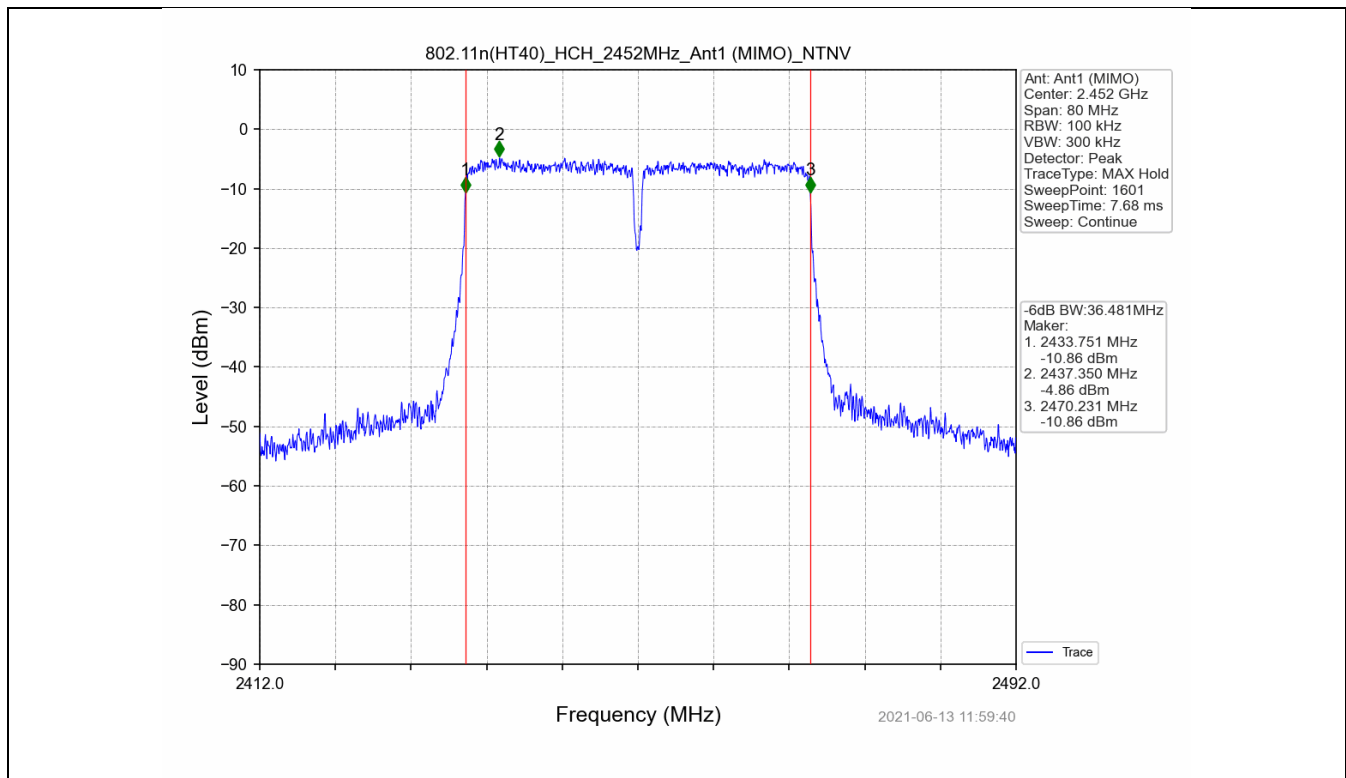
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV





3. Maximum Conducted Output Power

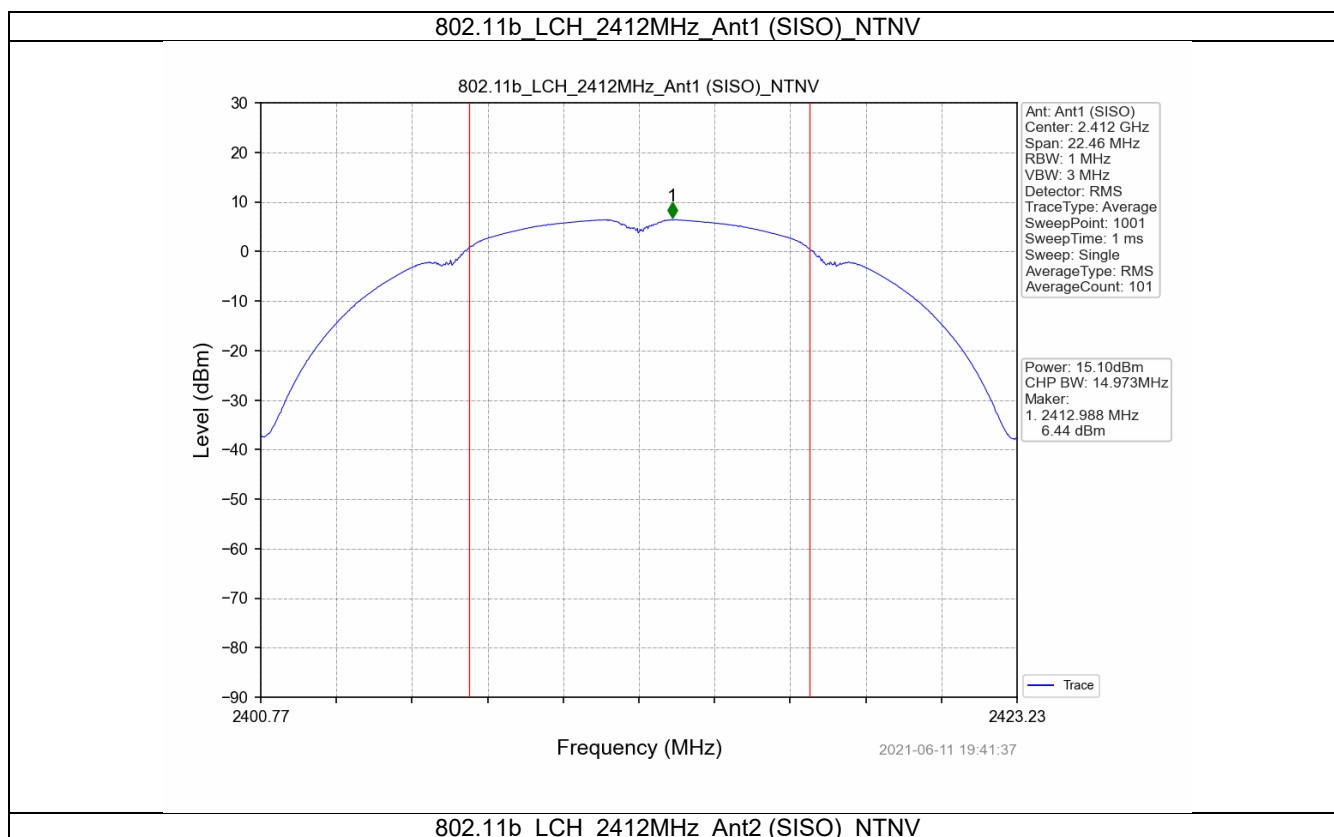
3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Average Power (dBm)			Limit (dBm)	Verdict
					Ant1	Ant2	Sum		
802.11b	SISO	2412	/	/	15.10	15.47	/	<=30	Pass
		2437	/	/	15.14	15.35	/	<=30	Pass
		2462	/	/	14.89	15.08	/	<=30	Pass
802.11g	SISO	2412	/	/	15.31	15.49	/	<=30	Pass
		2437	/	/	15.22	15.40	/	<=30	Pass
		2462	/	/	14.87	15.19	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	12.40	11.97	15.20	<=30	Pass
		2437	/	/	12.21	11.59	14.92	<=30	Pass
		2462	/	/	11.77	11.26	14.53	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	12.63	12.44	15.55	<=30	Pass
		2437	/	/	12.53	12.13	15.34	<=30	Pass
		2452	/	/	12.34	11.91	15.14	<=30	Pass

Note1: Antenna Gain: 1: 2.41dBi; 2: 2.41dBi;

3.1.2 Test Graph



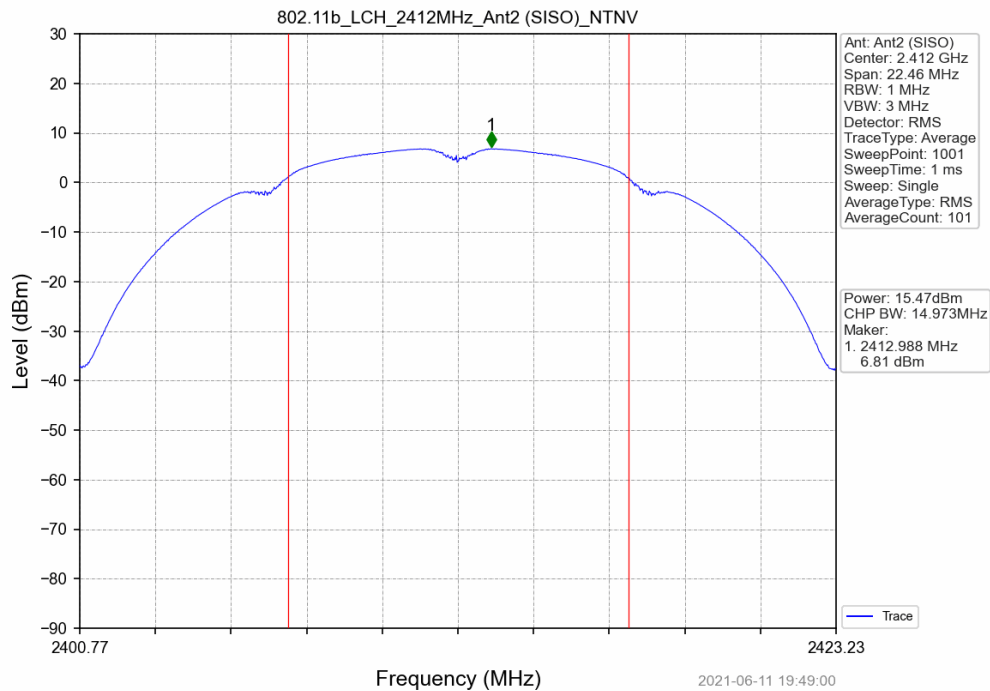
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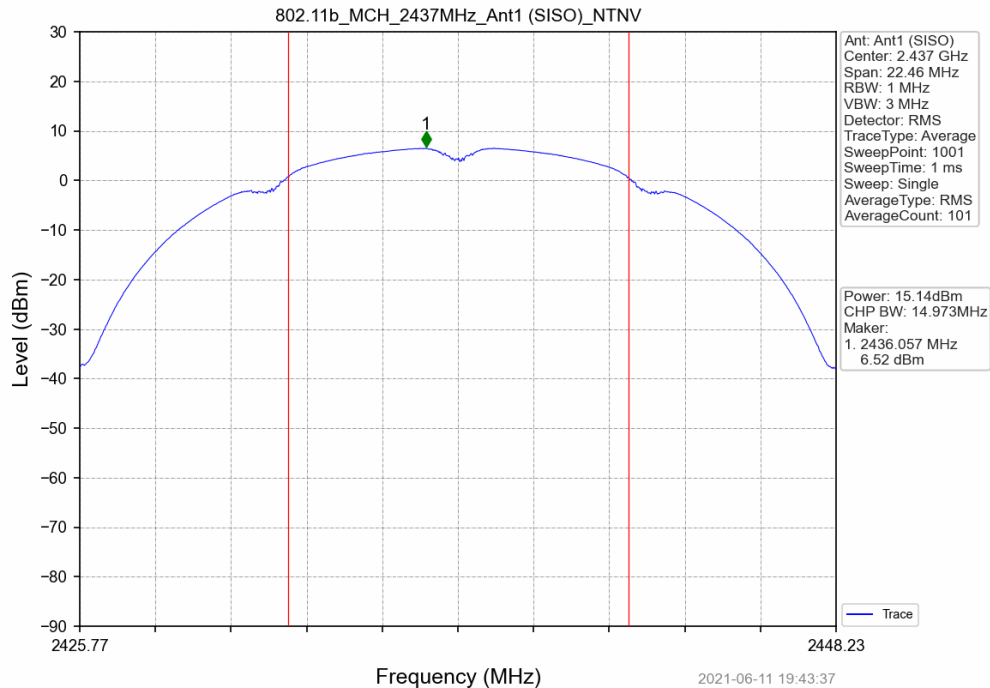
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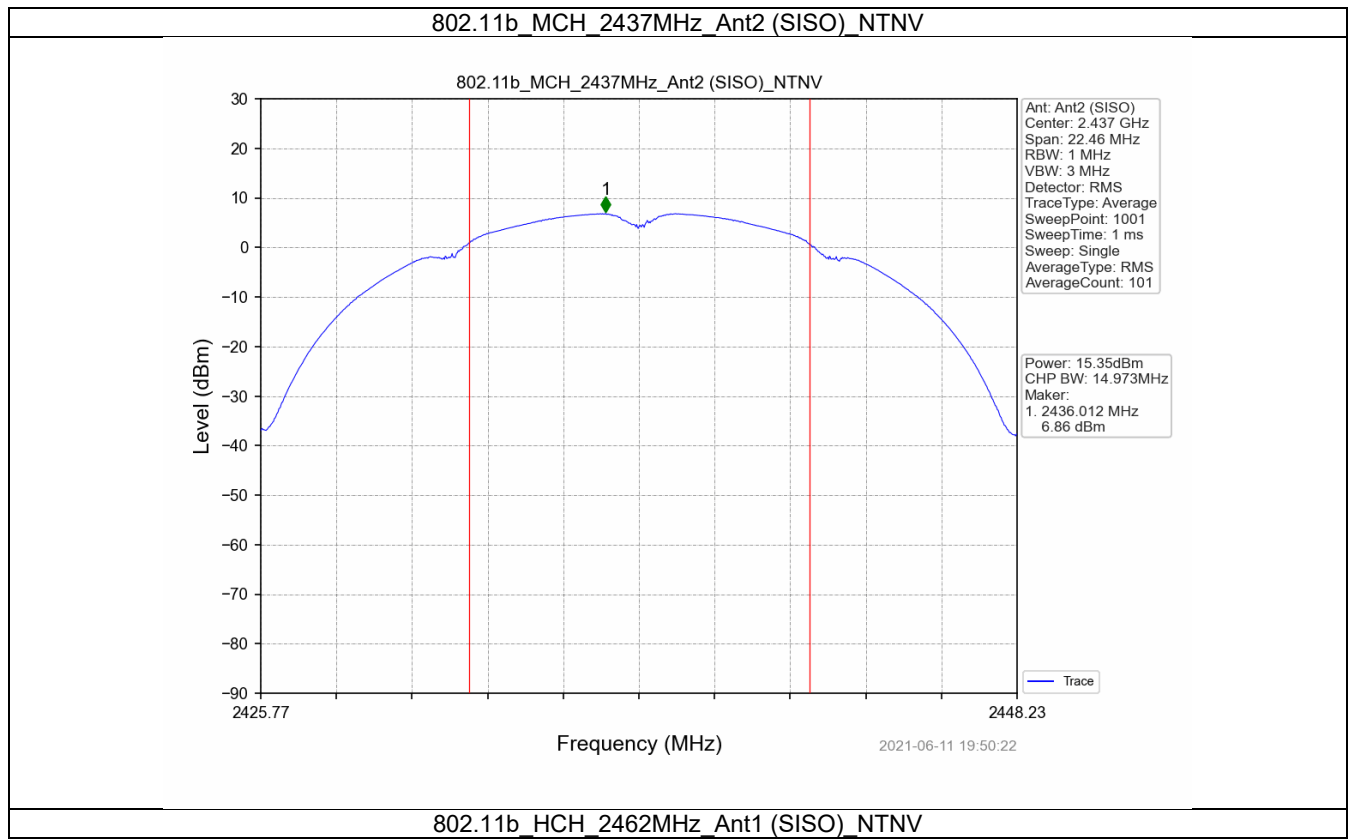


802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



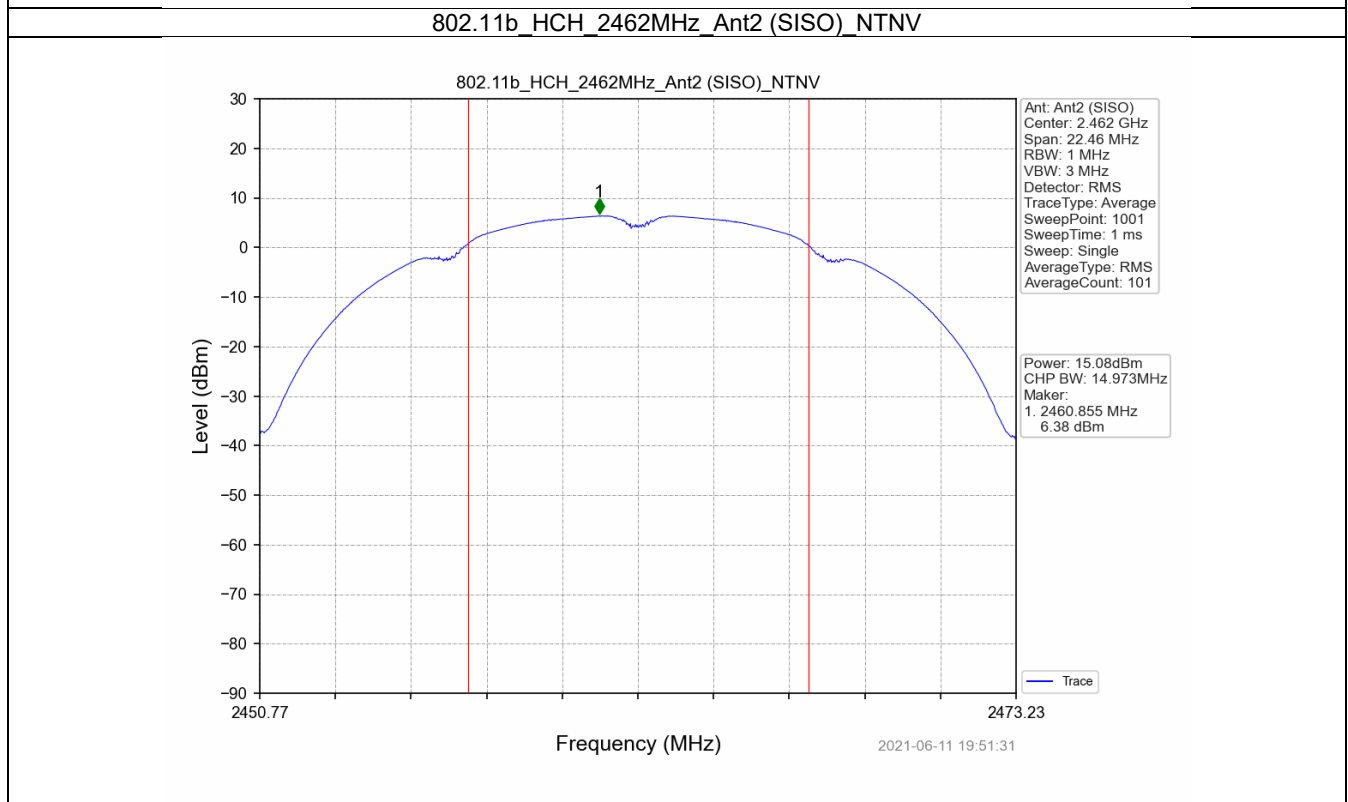
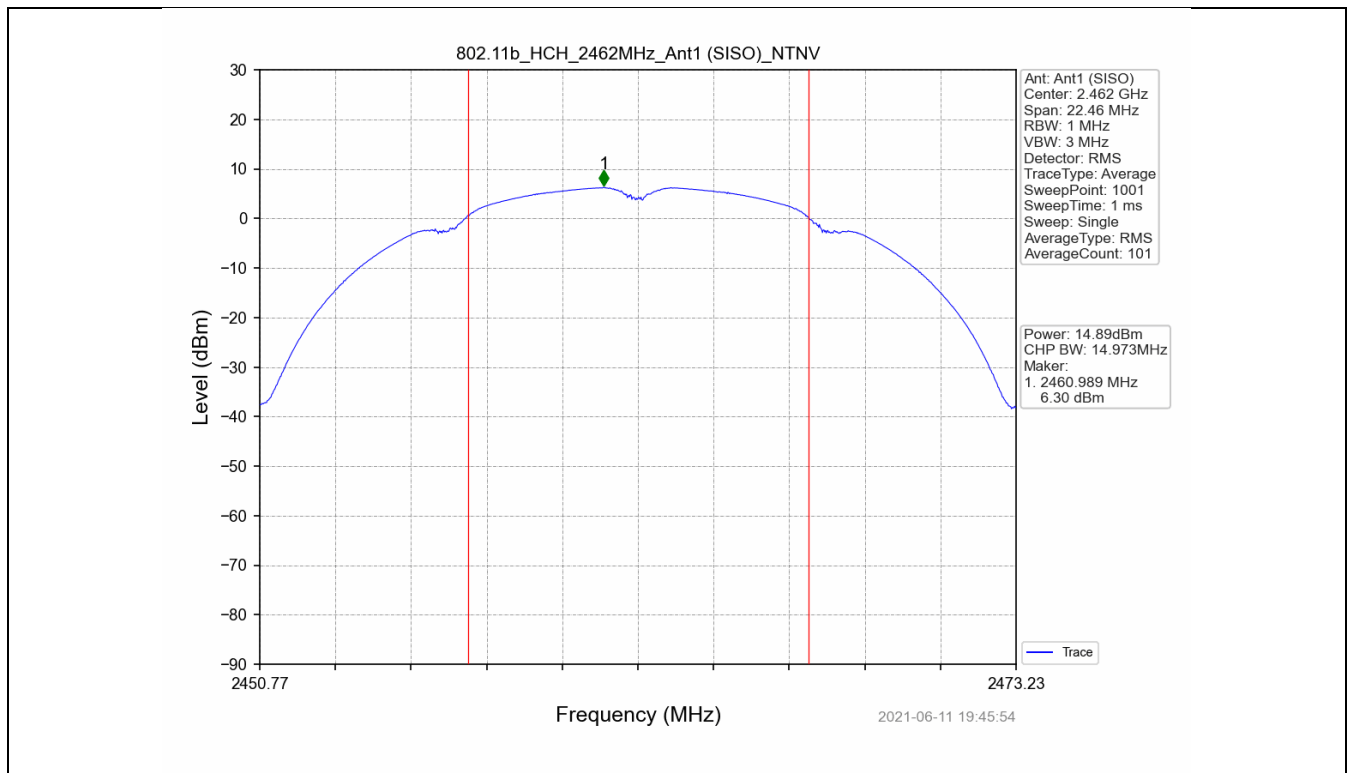
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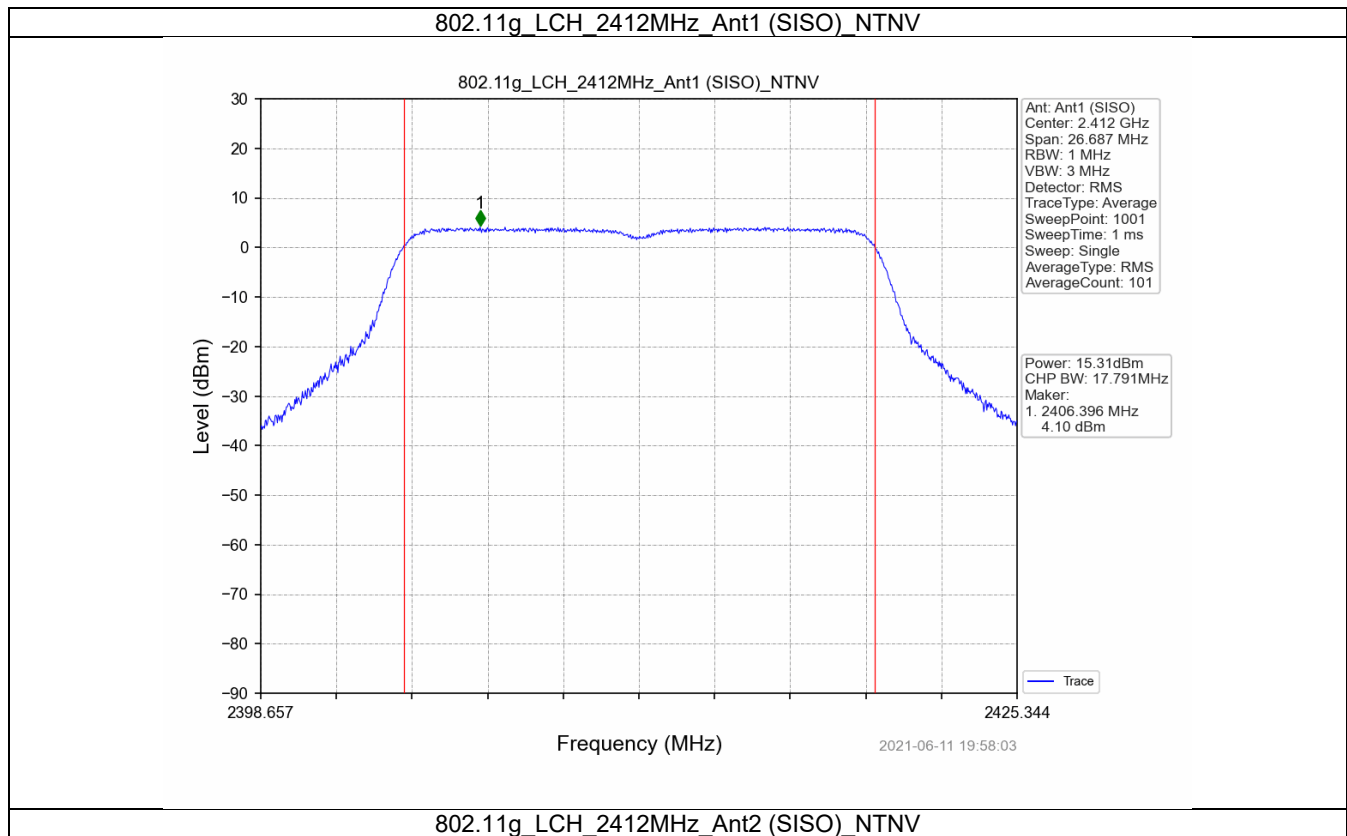
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV





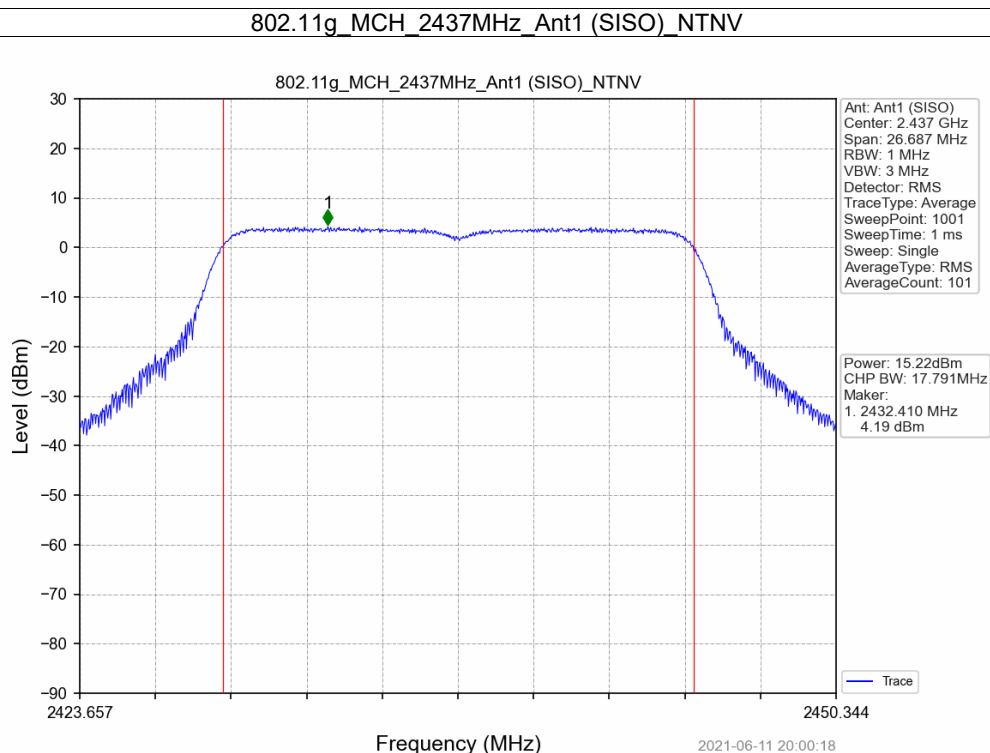
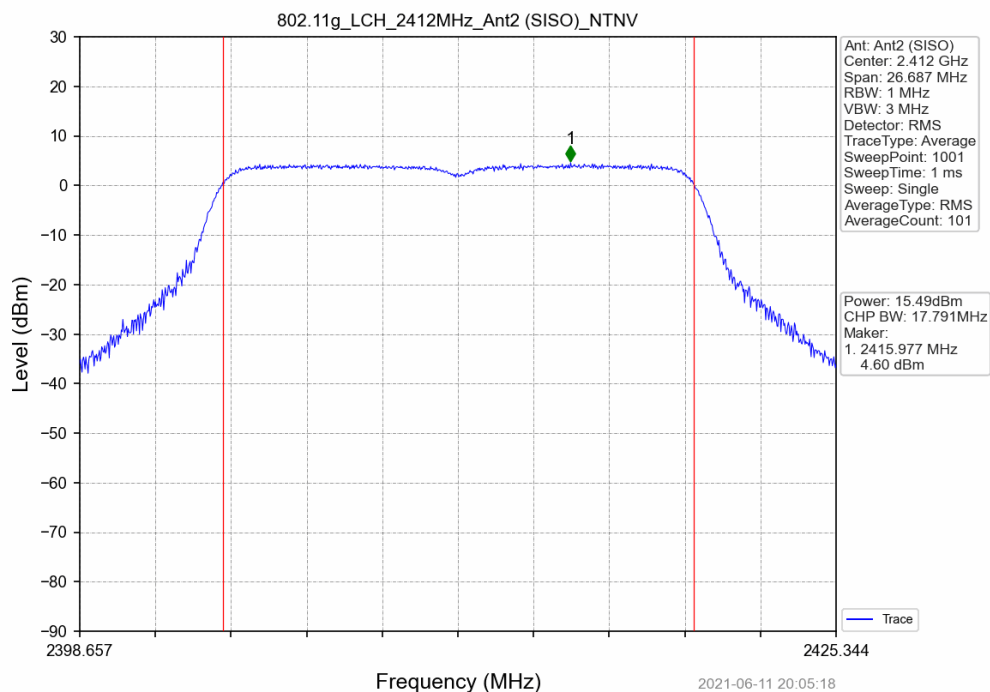
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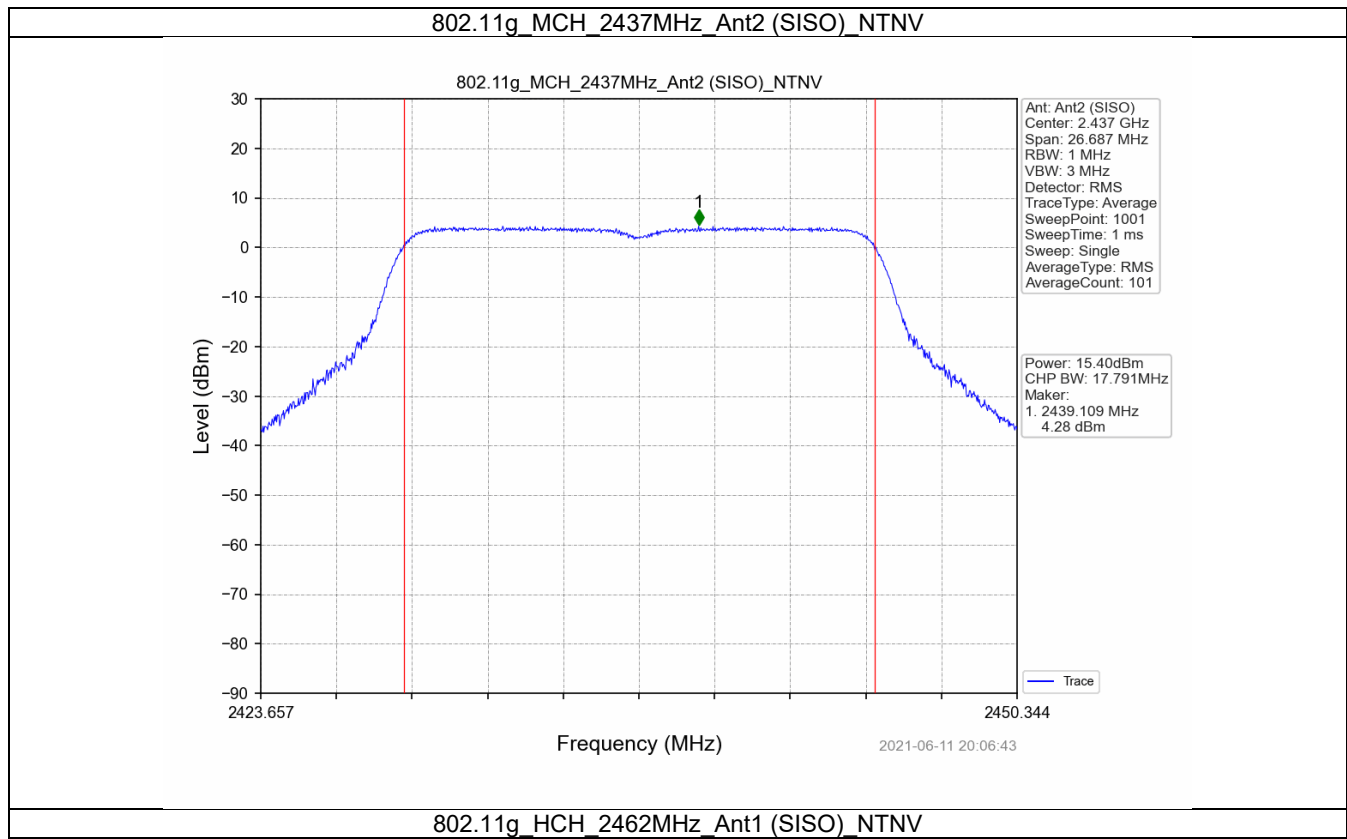
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV

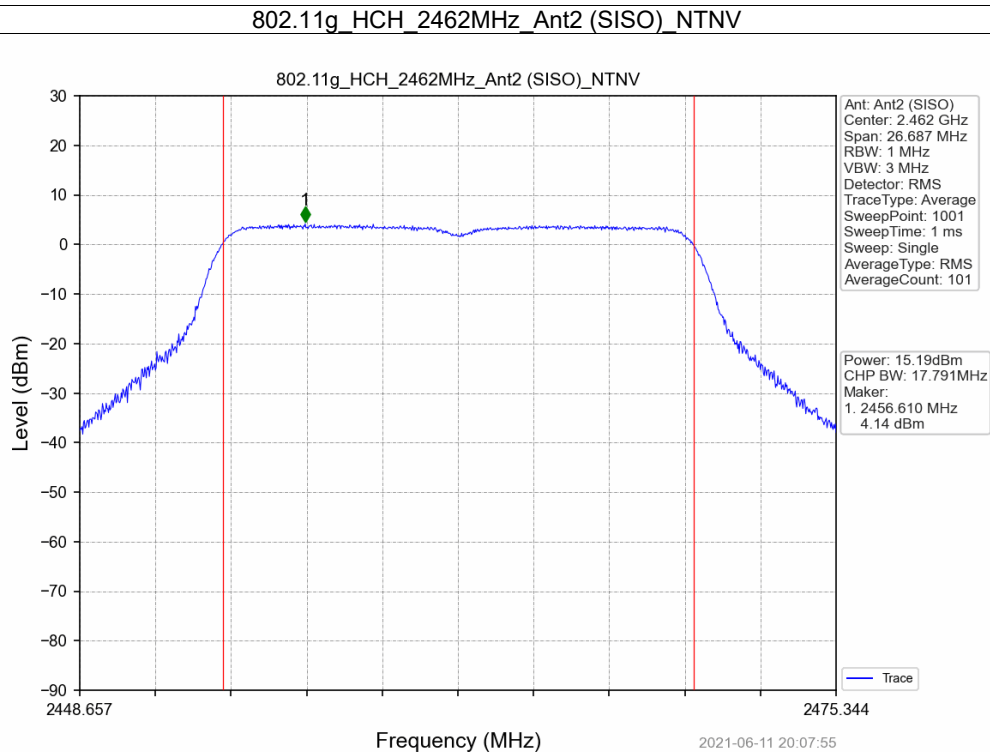
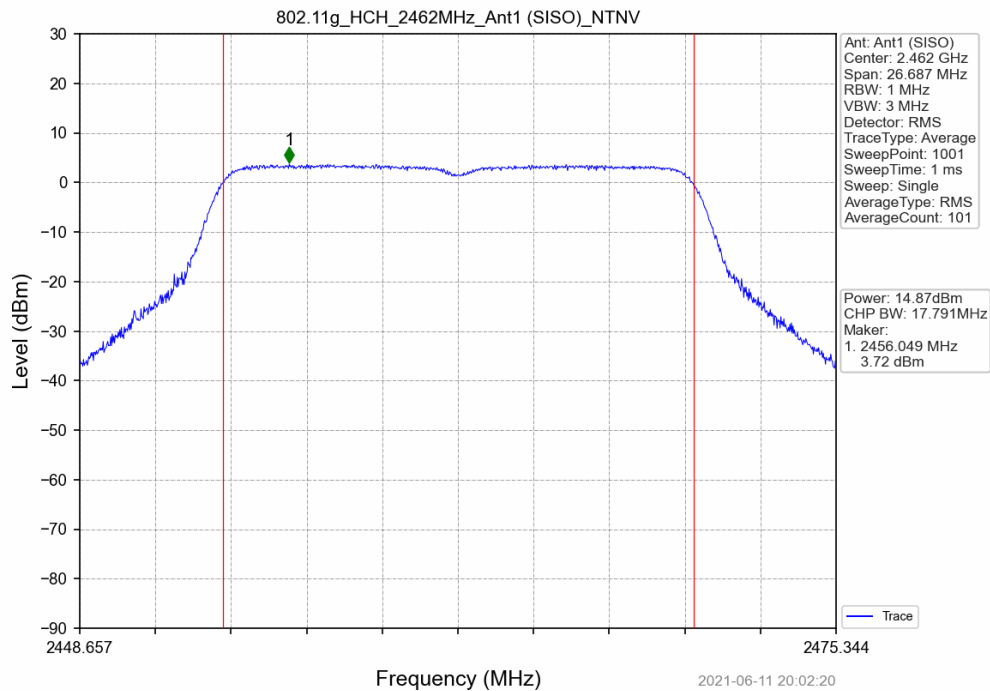




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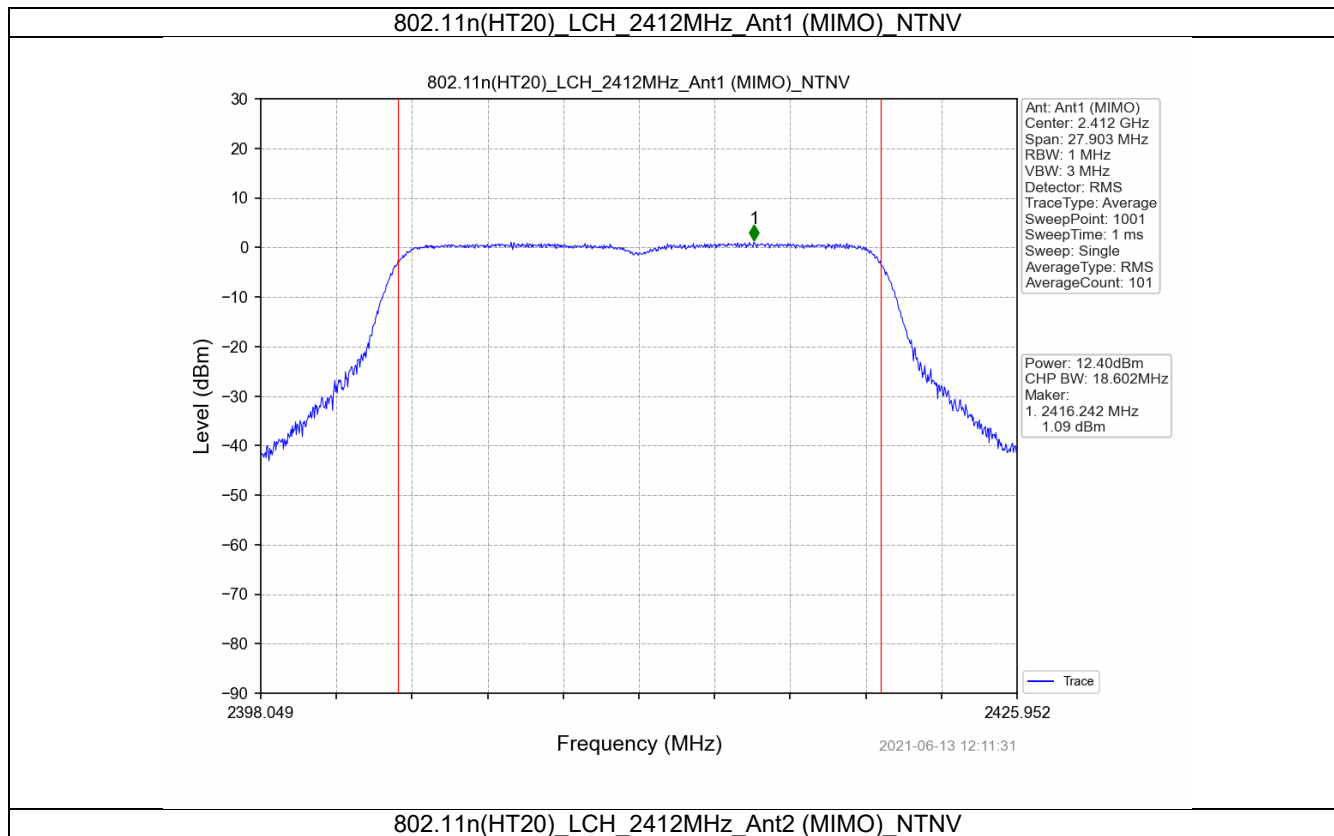
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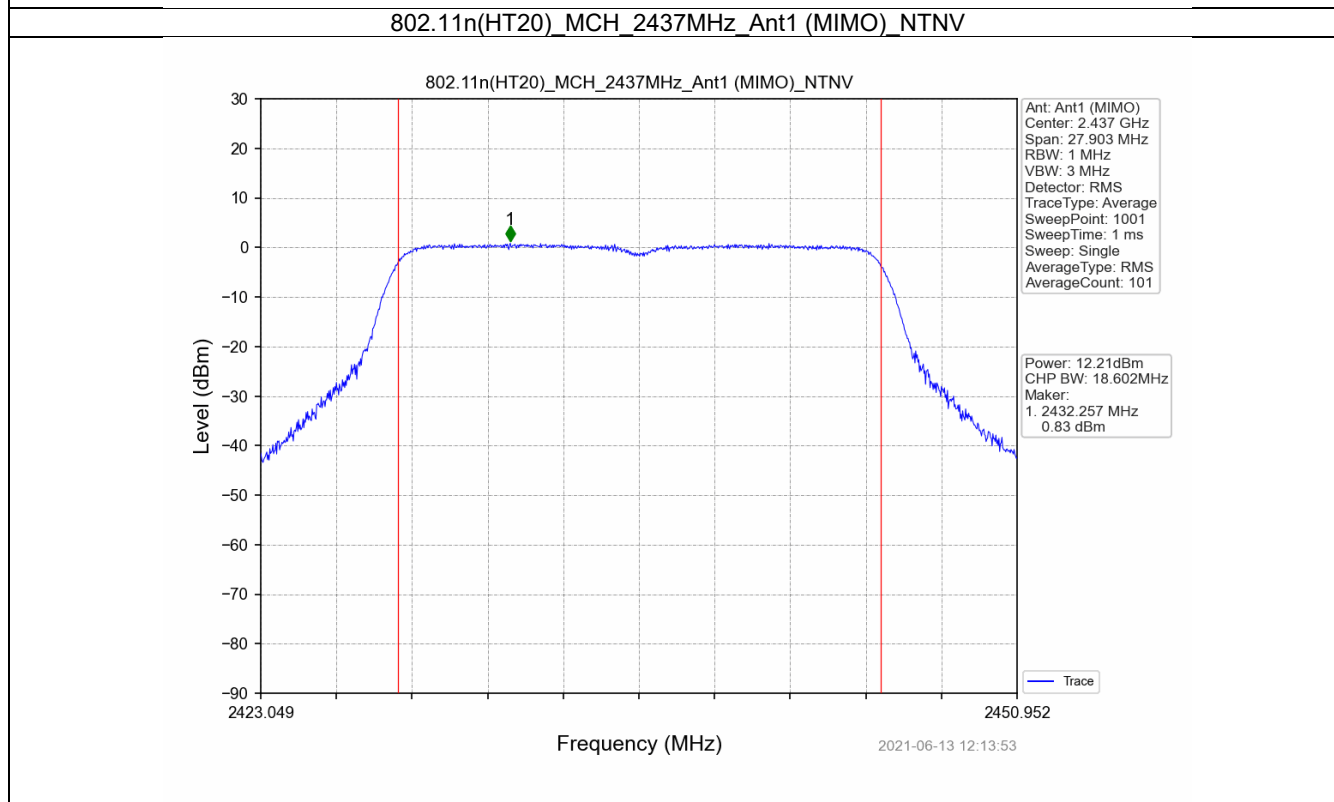
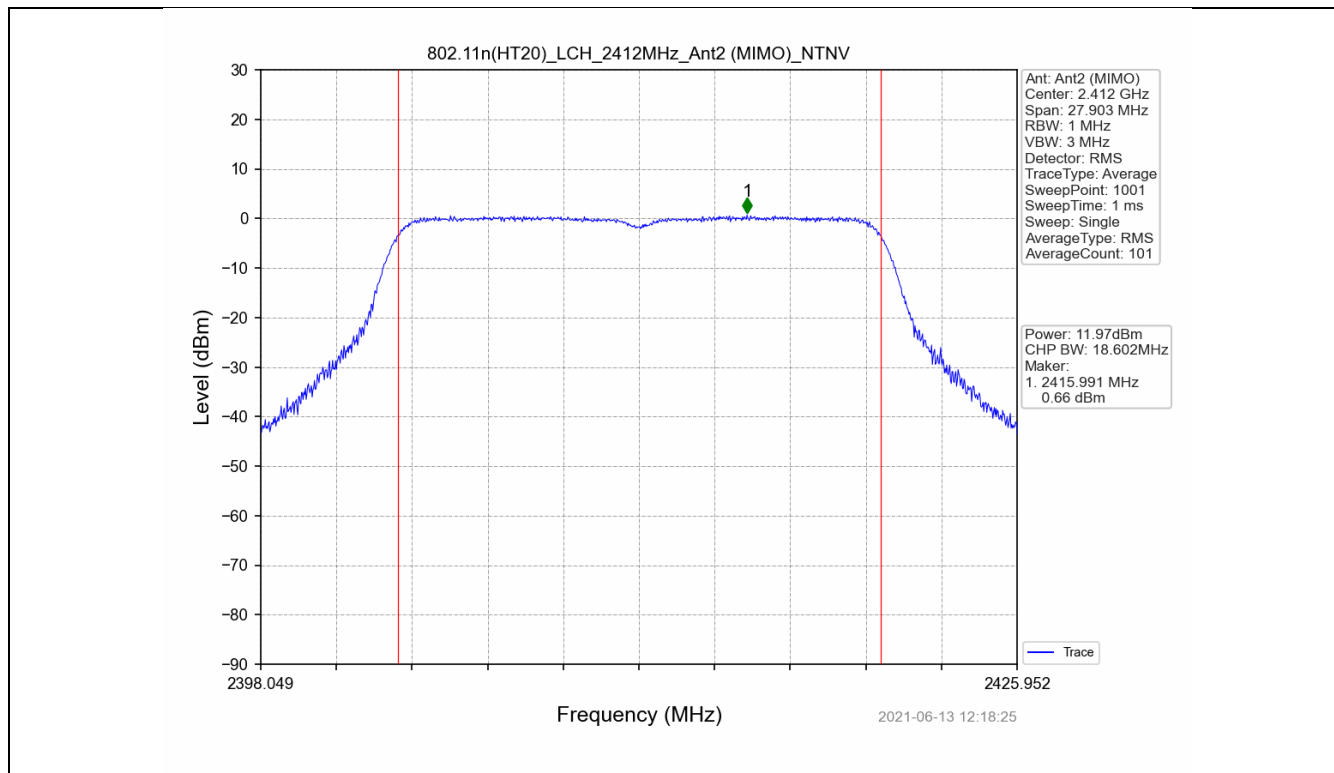
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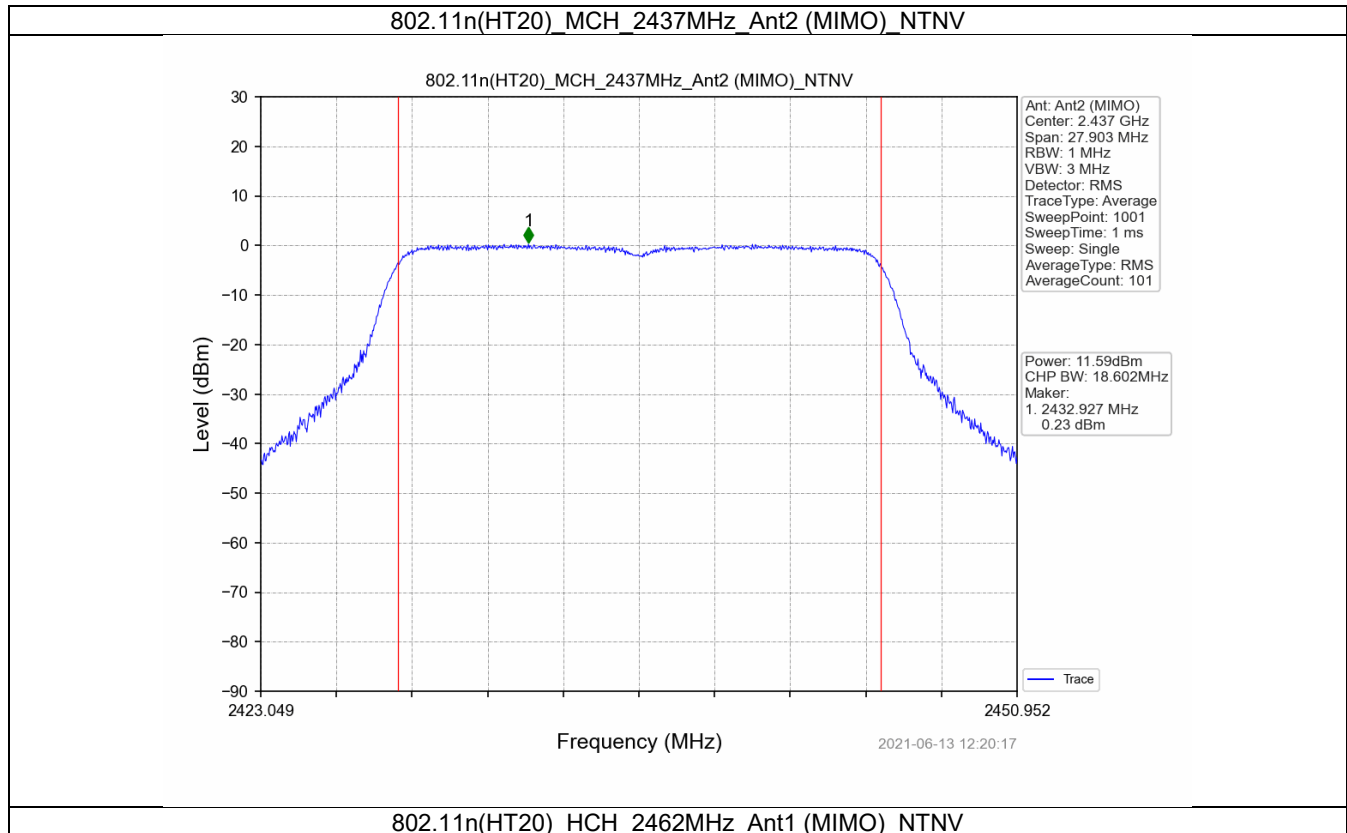
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV





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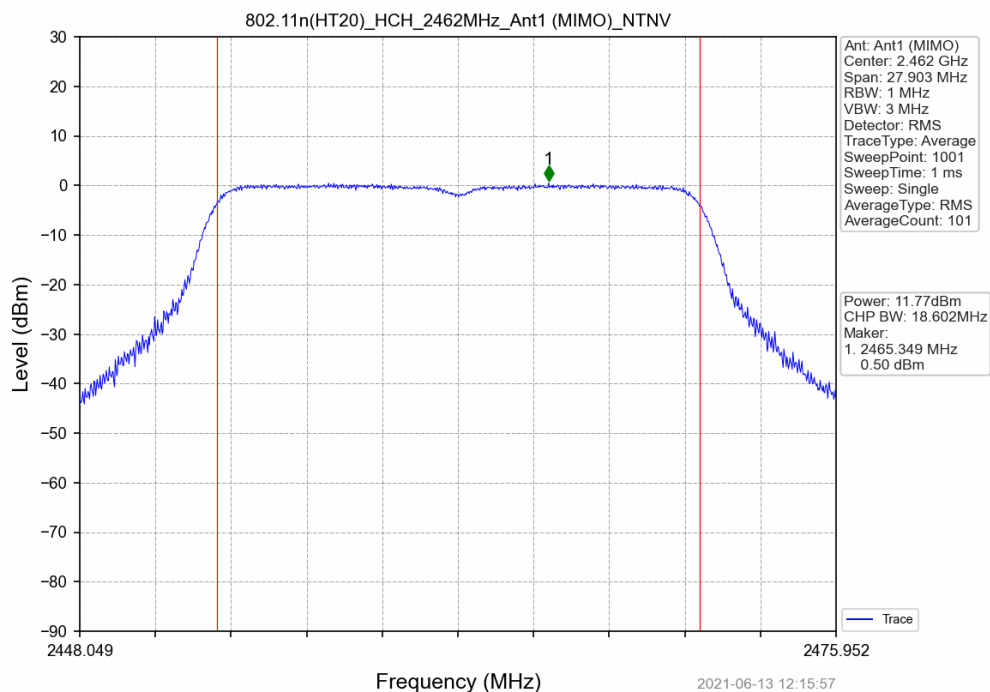


802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV

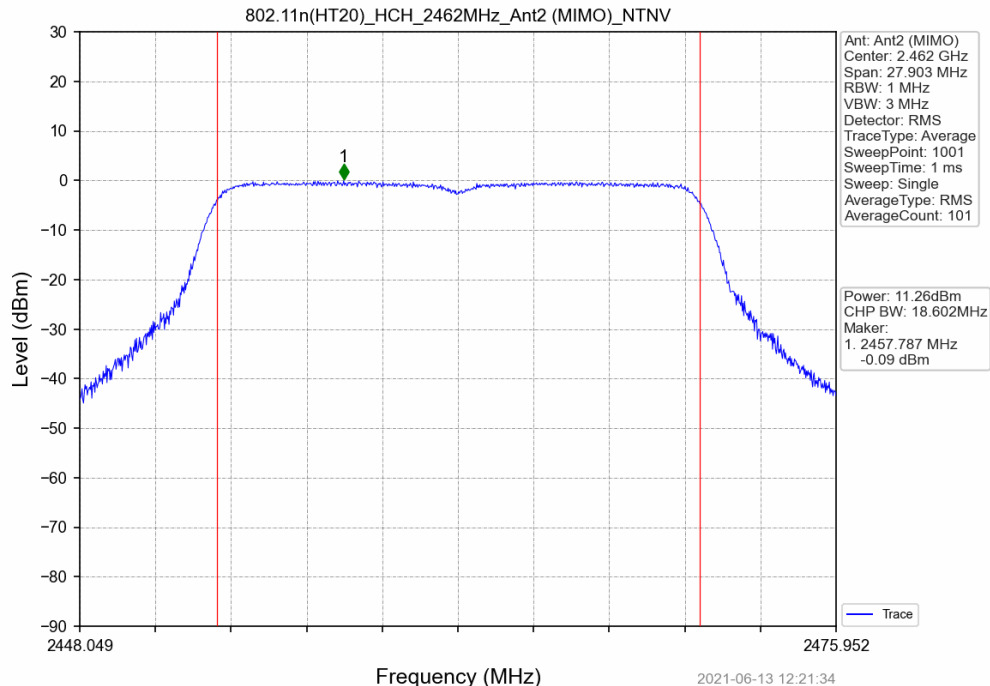


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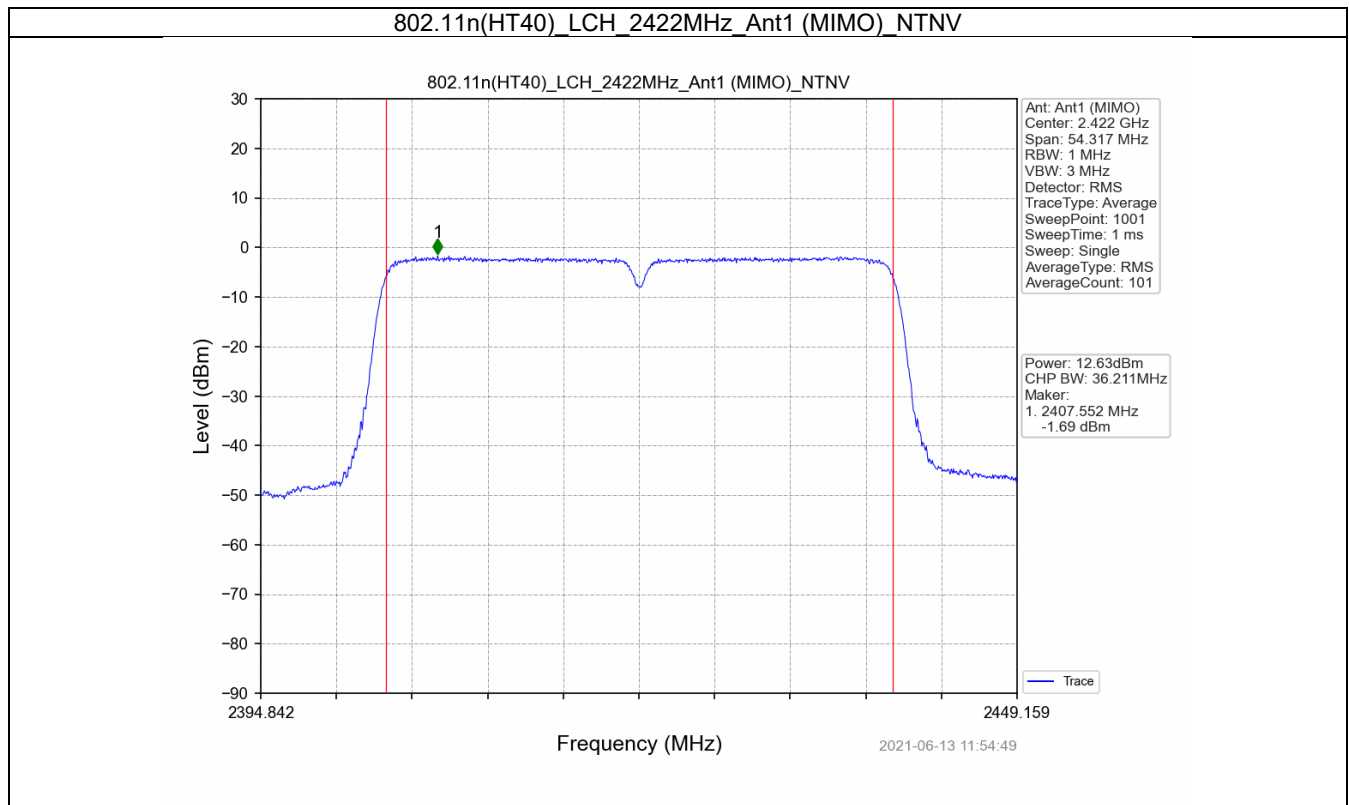
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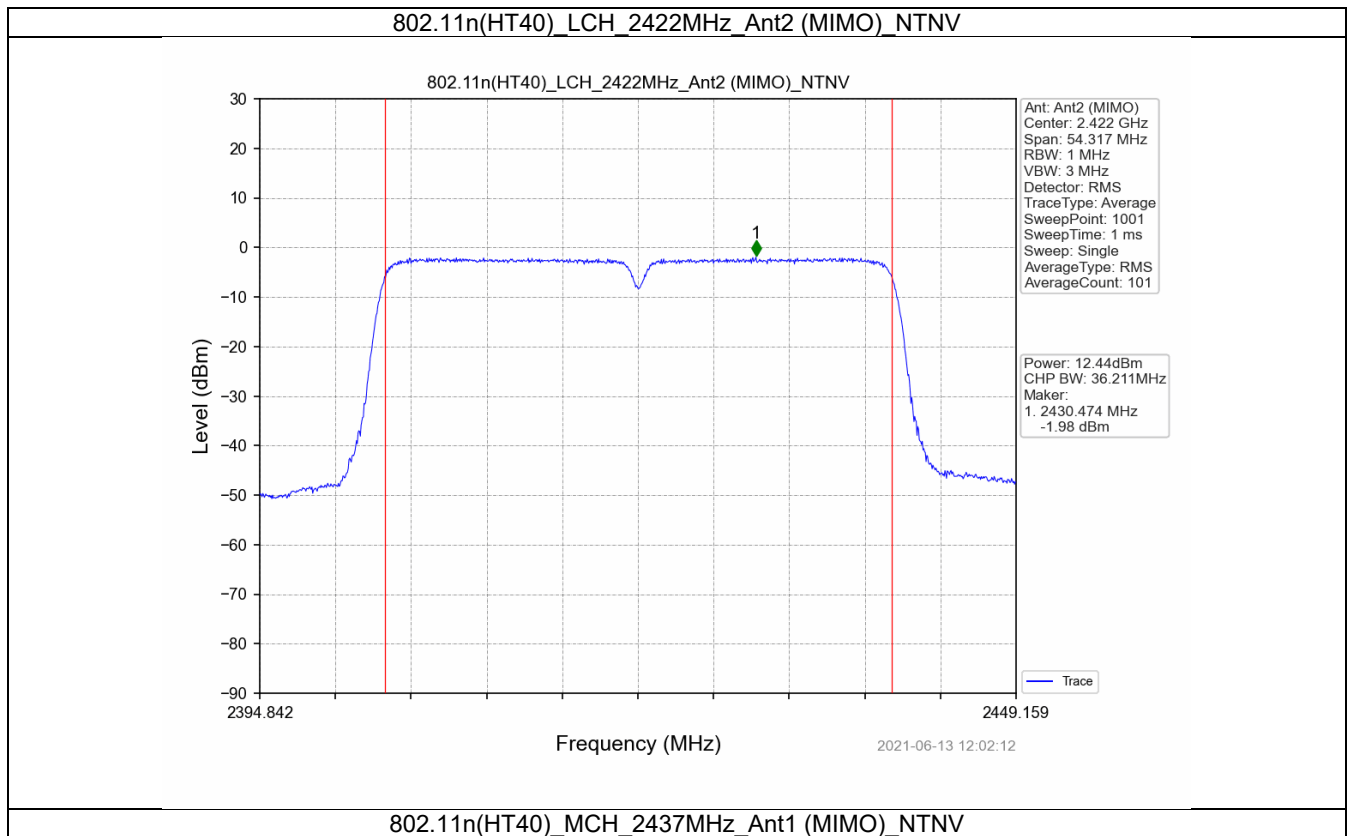
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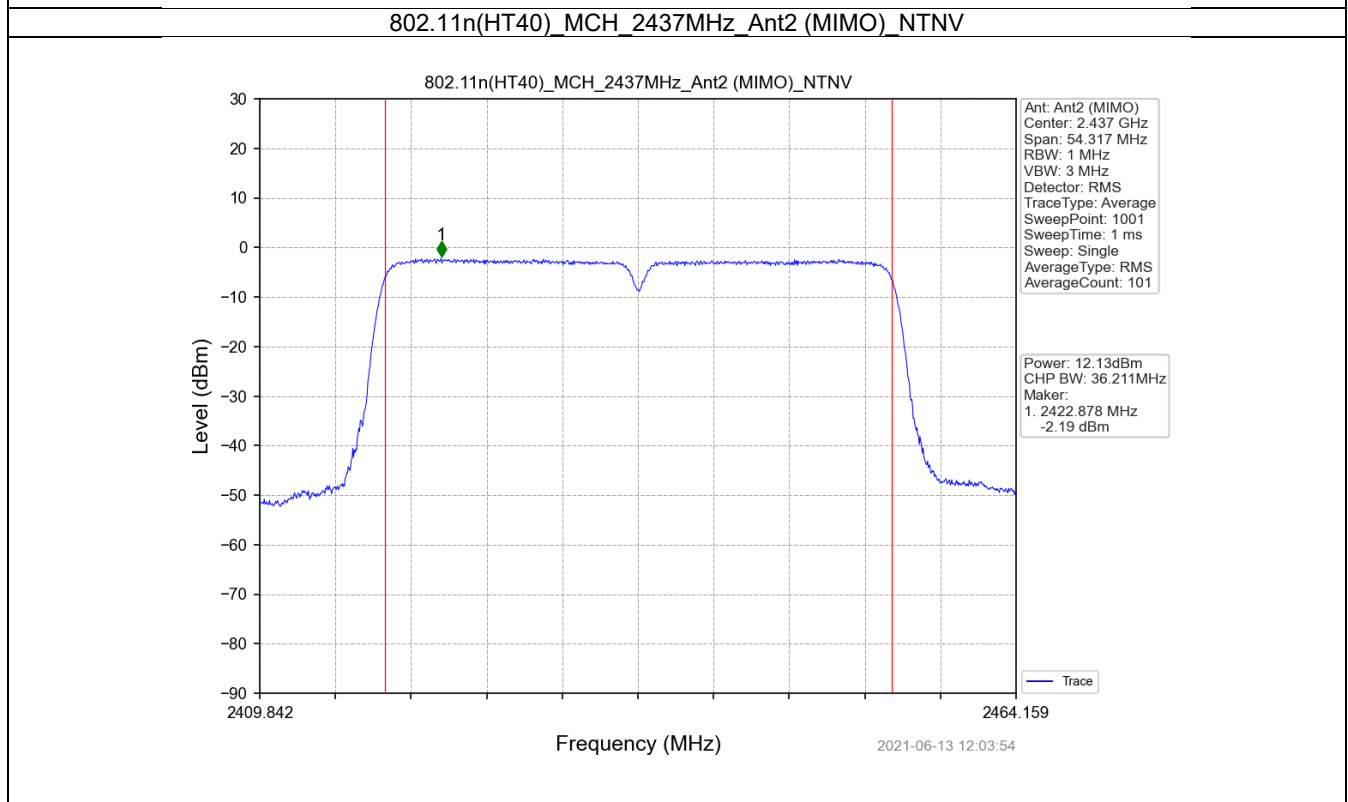
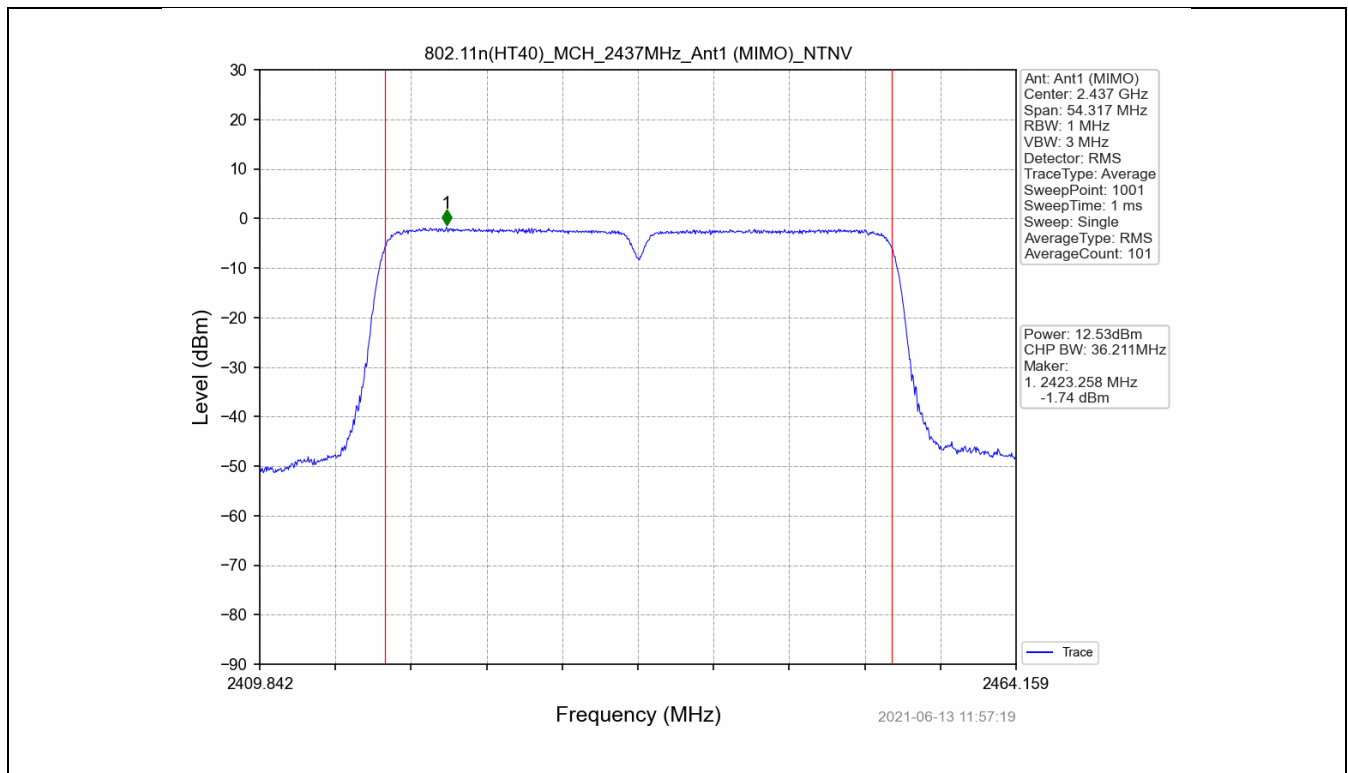
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV





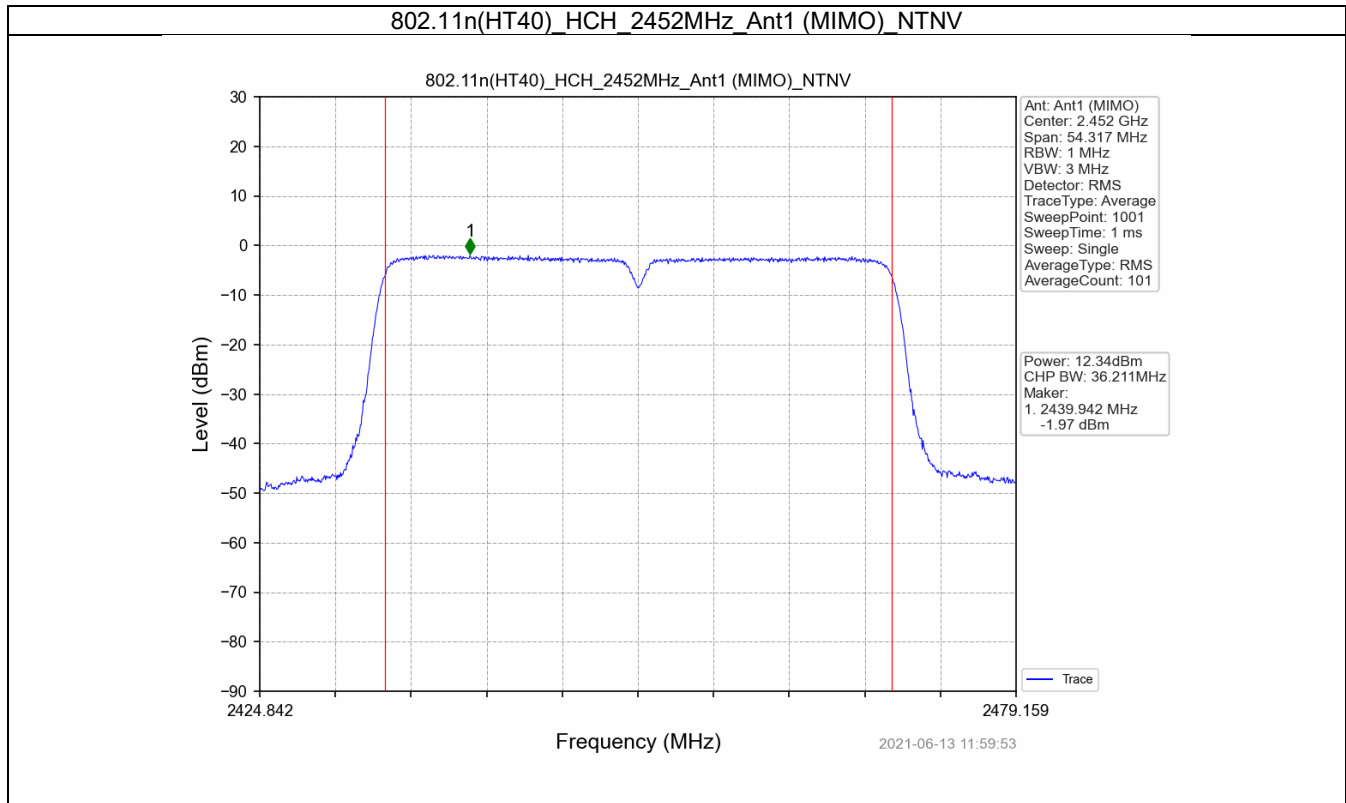
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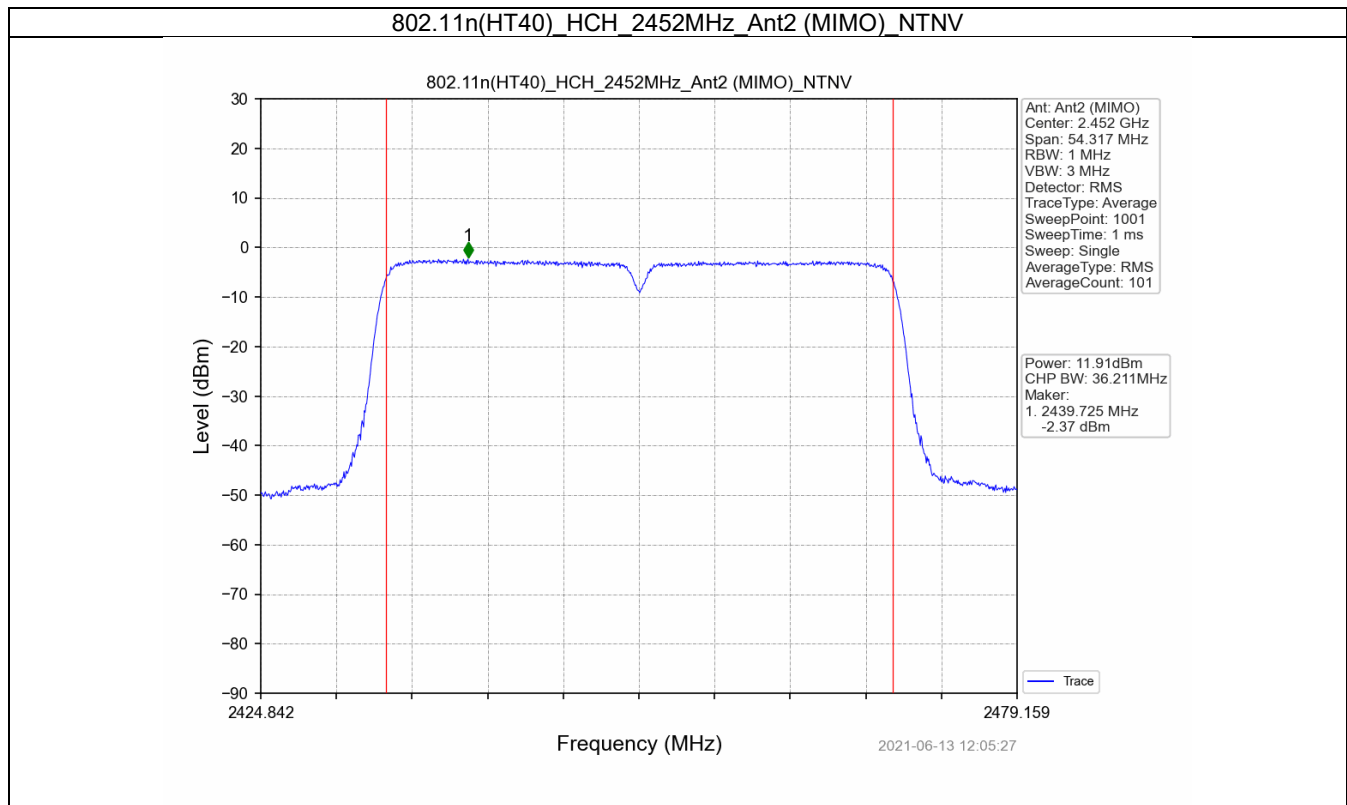
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4. Maximum Power Spectral Density

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	Ant2	Sum		
802.11b	SISO	2412	/	/	-14.79	-14.42	/	<=8	Pass
		2437	/	/	-14.72	-14.52	/	<=8	Pass
		2462	/	/	-14.97	-14.75	/	<=8	Pass
802.11g	SISO	2412	/	/	-13.35	-13.15	/	<=8	Pass
		2437	/	/	-13.40	-13.23	/	<=8	Pass
		2462	/	/	-13.76	-13.50	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-15.41	-15.94	-12.67	<=8	Pass
		2437	/	/	-15.33	-16.55	-12.99	<=8	Pass
		2462	/	/	-15.76	-16.26	-12.99	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-15.55	-16.33	-12.92	<=8	Pass
		2437	/	/	-15.72	-17.50	-14.20	<=8	Pass
		2452	/	/	-17.32	-17.73	-14.59	<=8	Pass

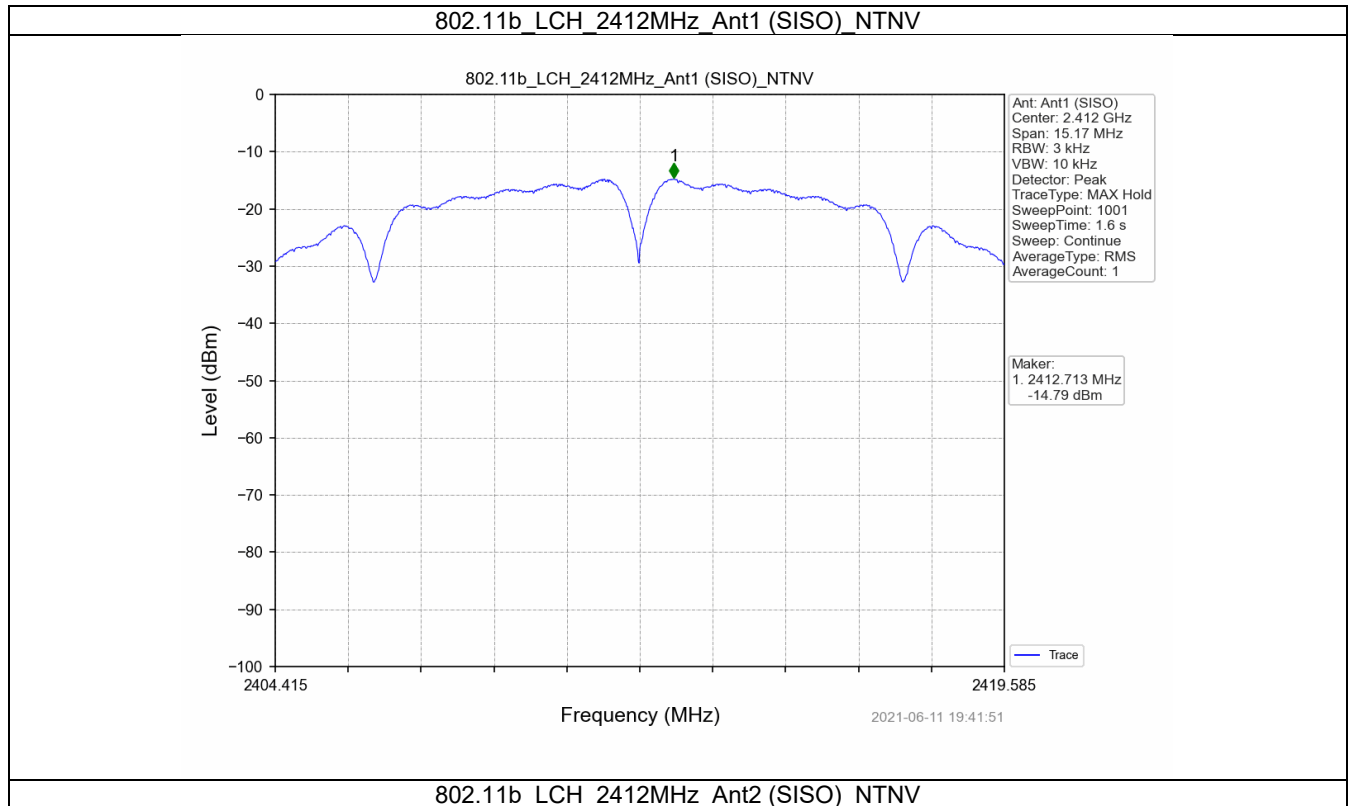
Note1: Antenna Gain: 1: 2.41dBi; 2: 2.41dBi;



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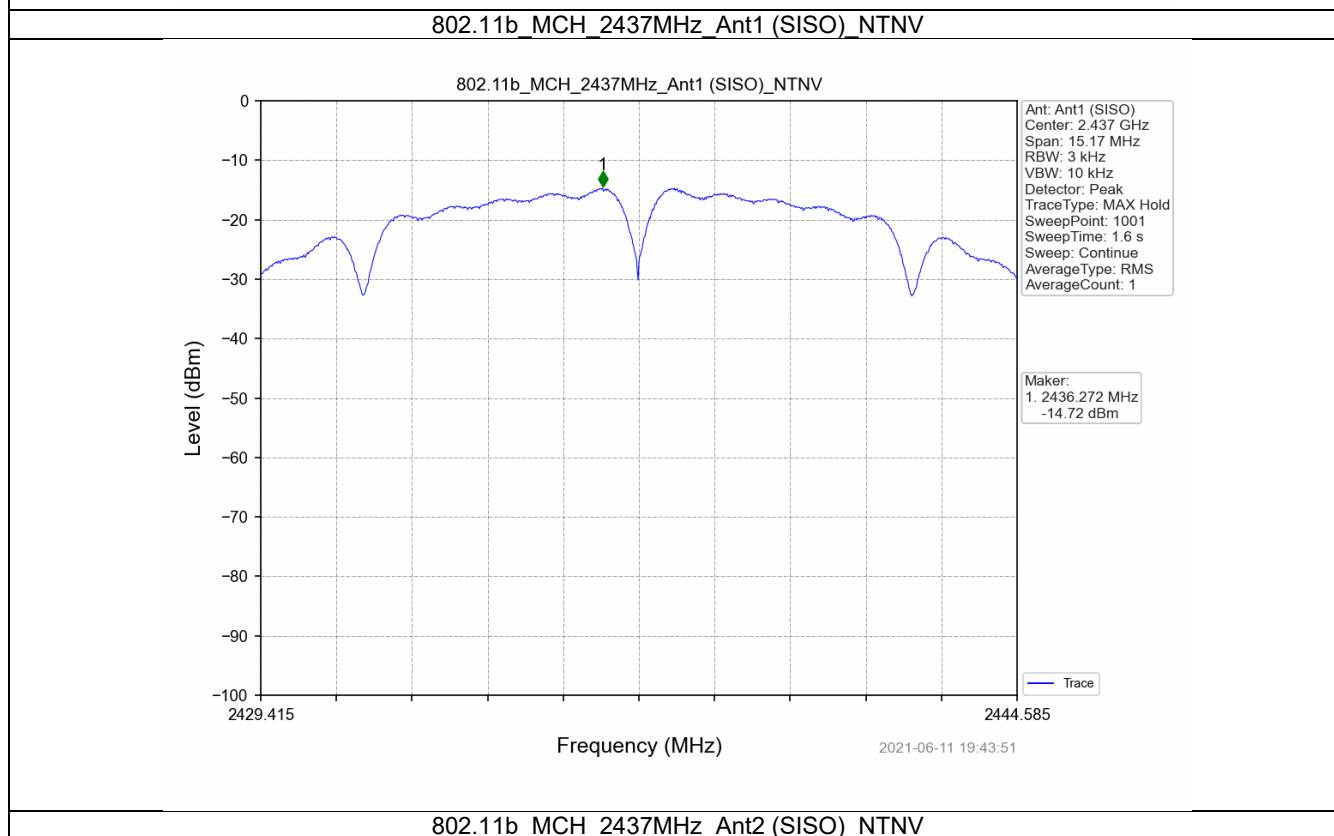
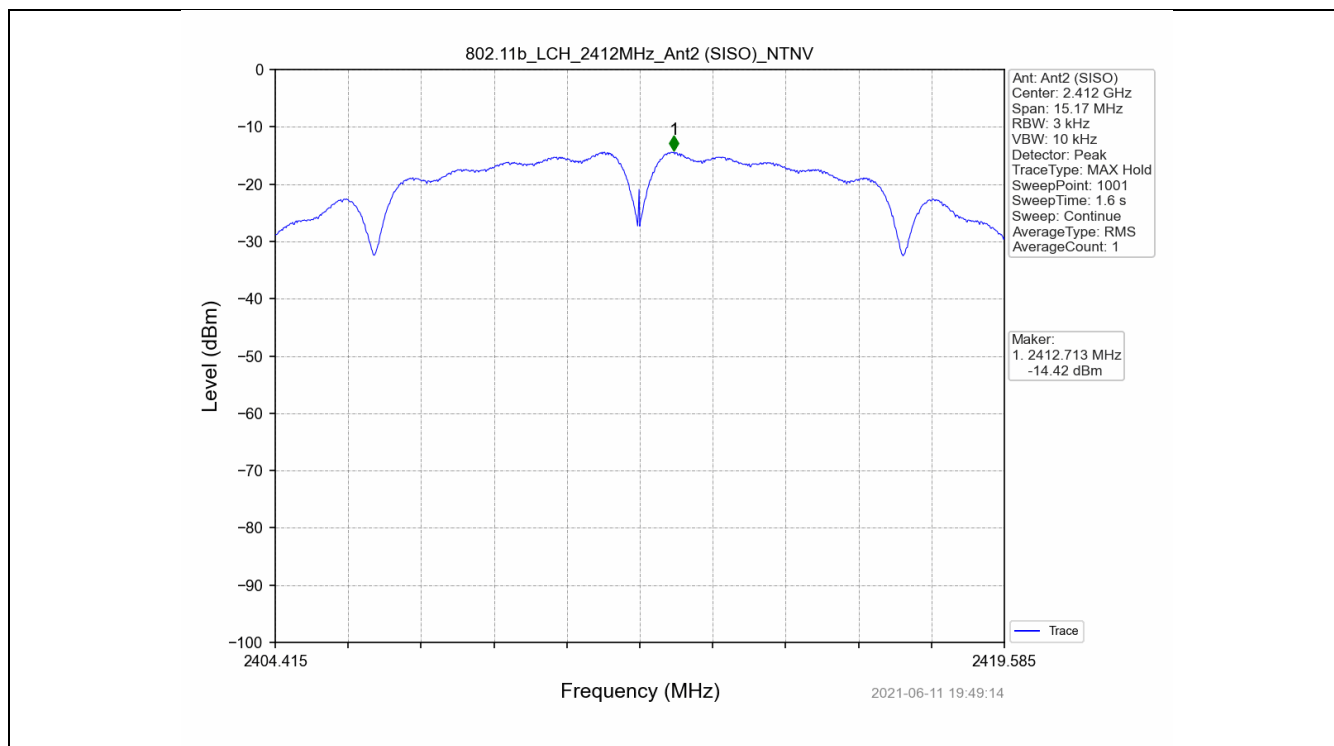
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4.1.2 Test Graph



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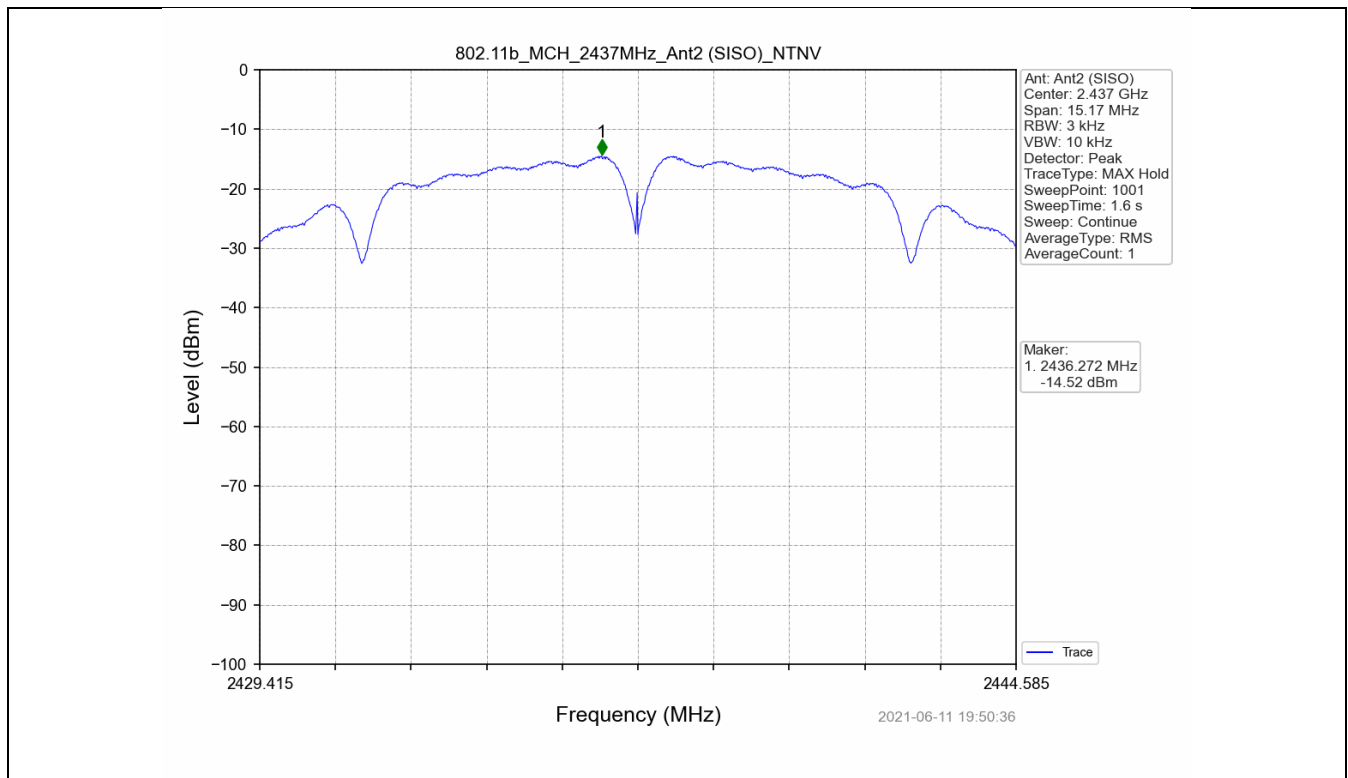


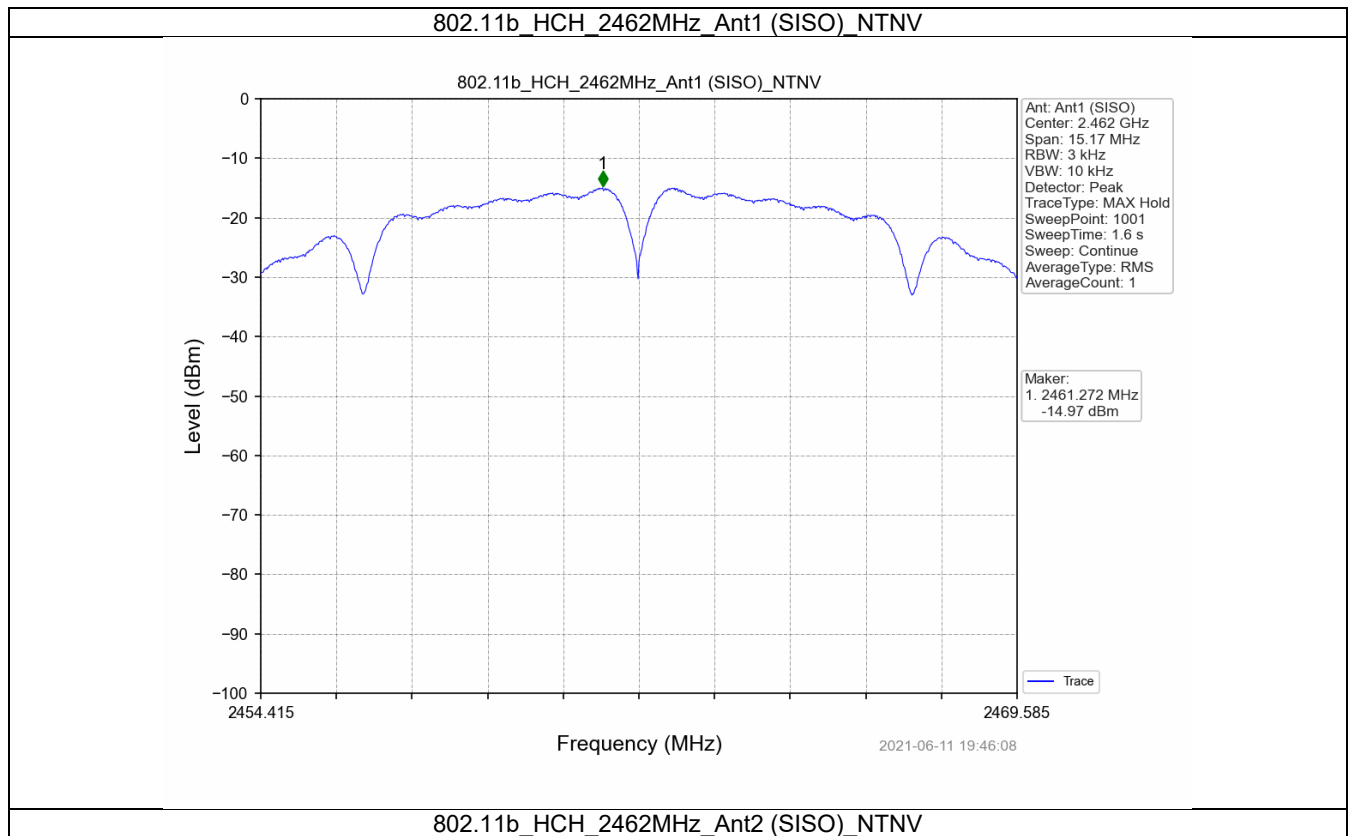
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

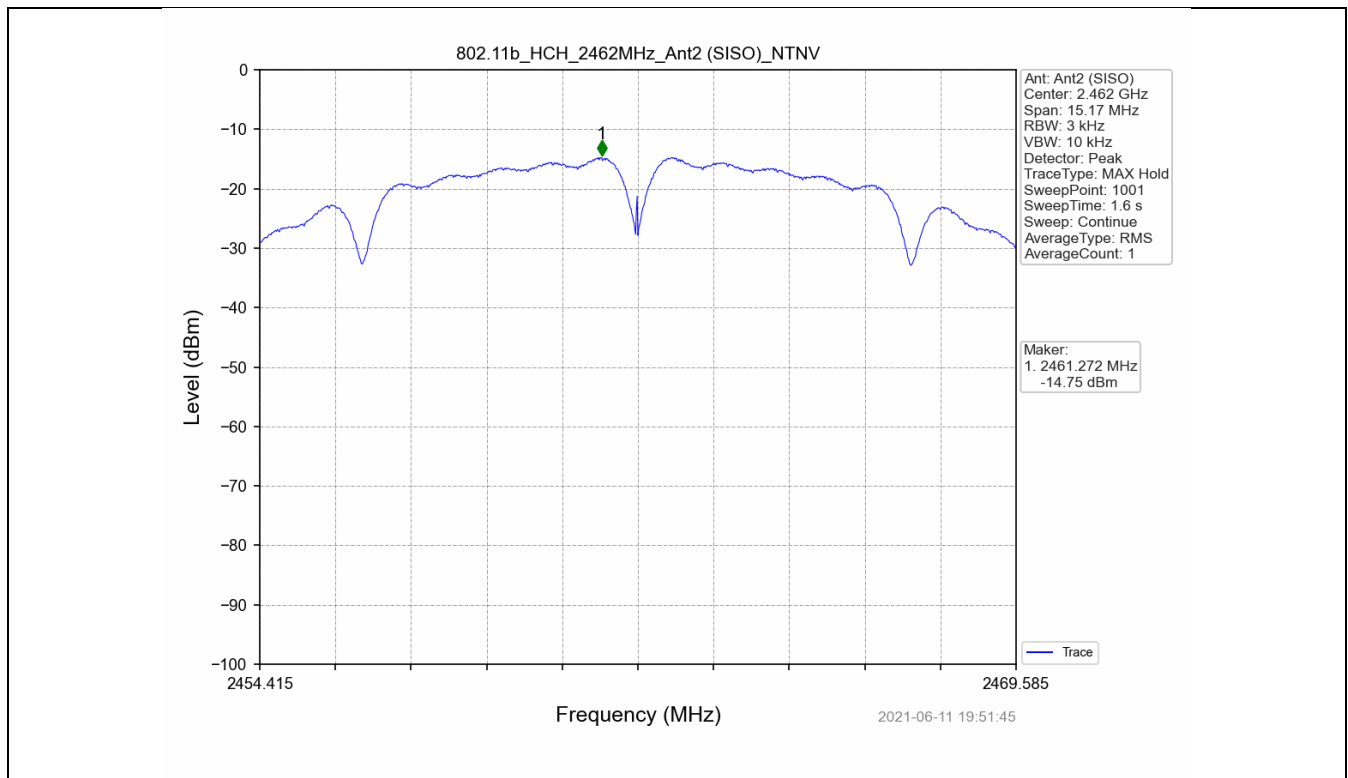


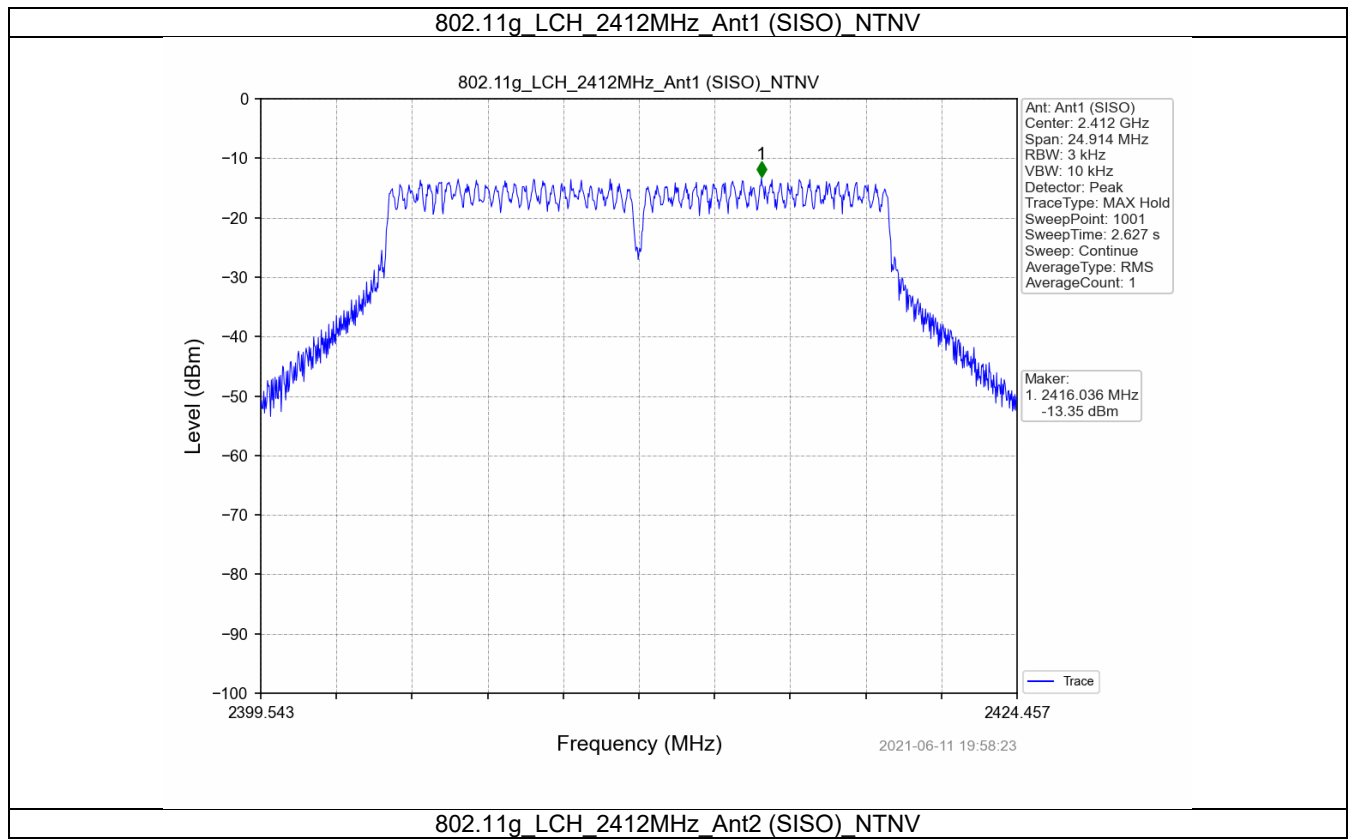
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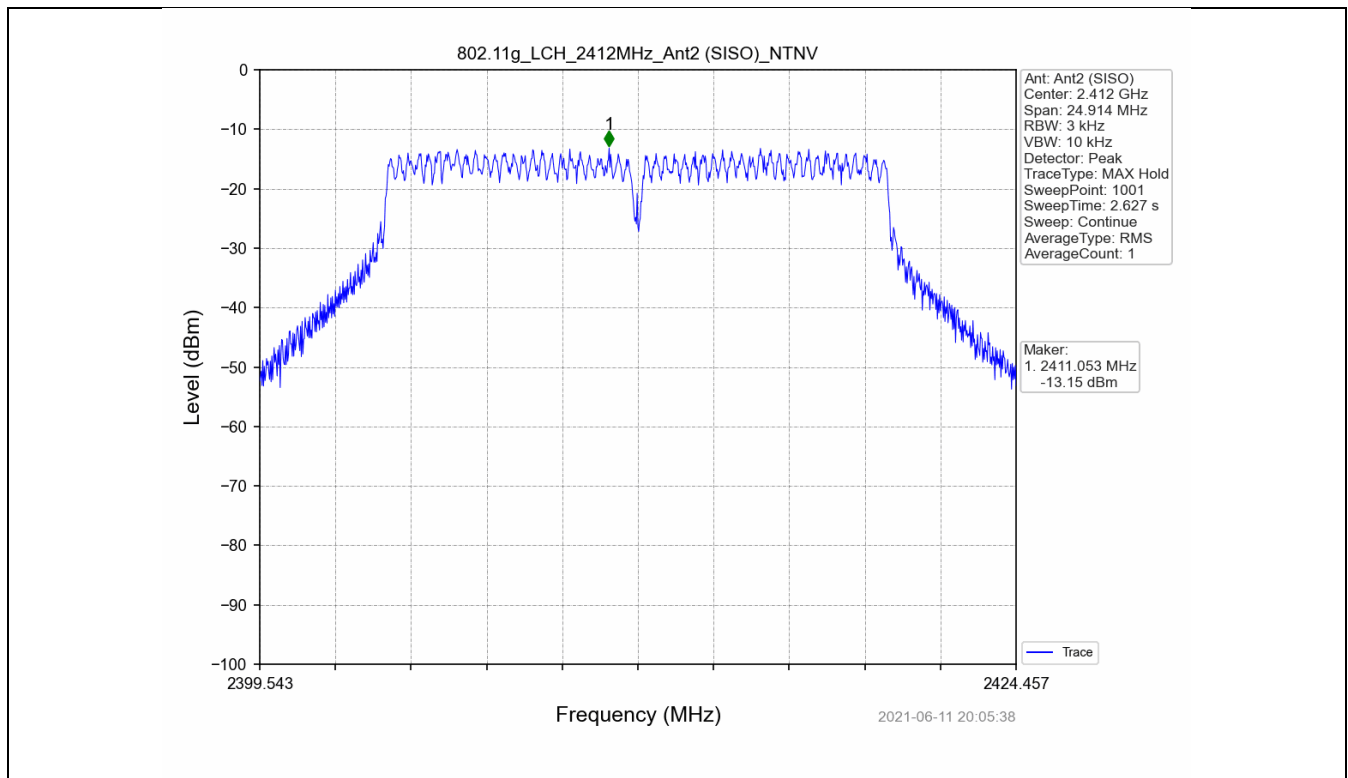
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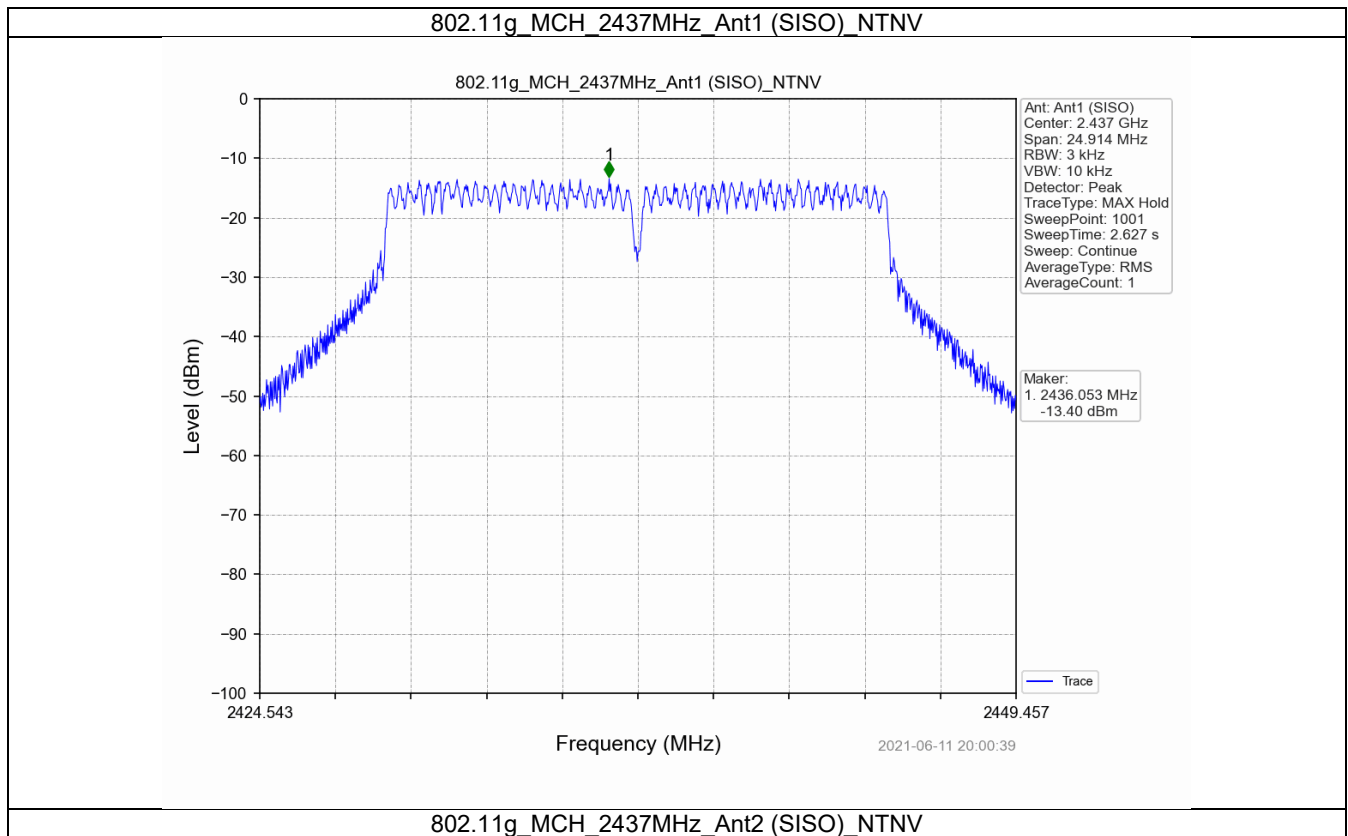






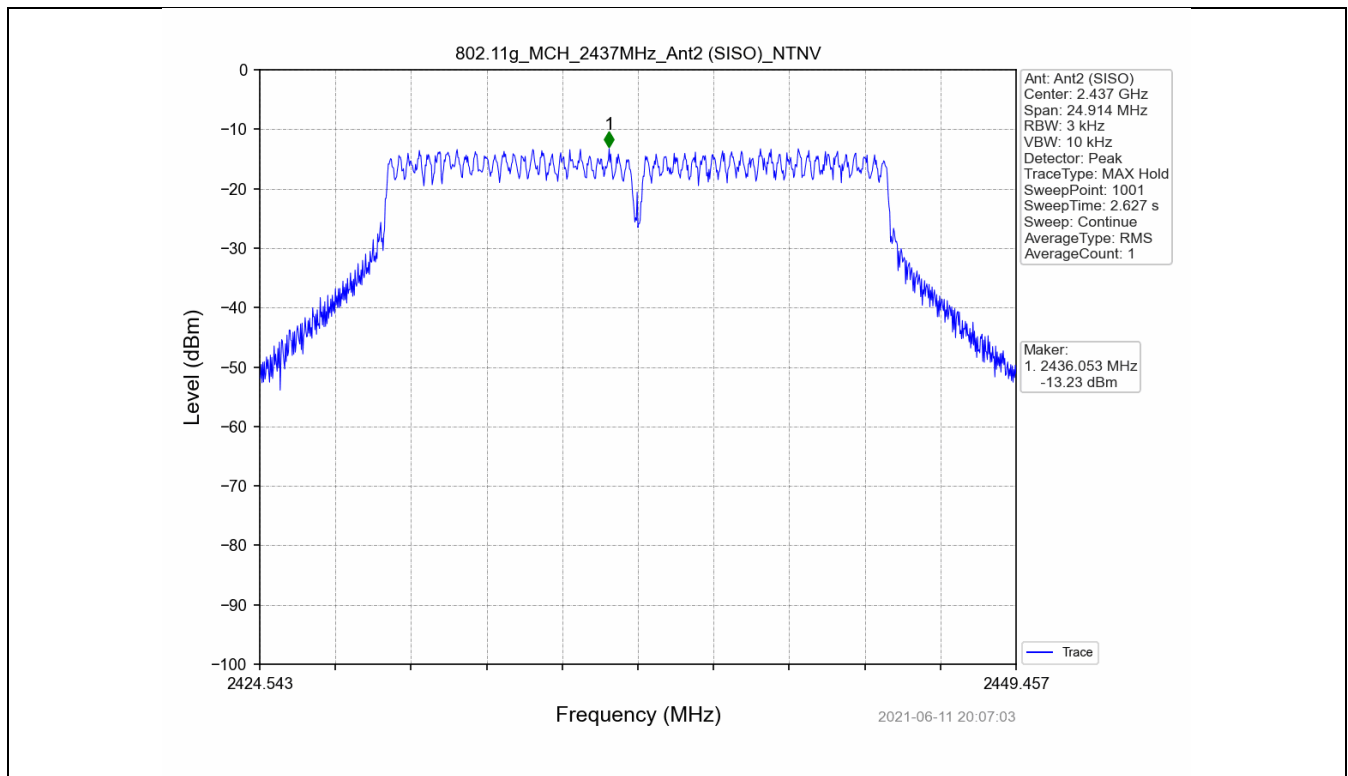






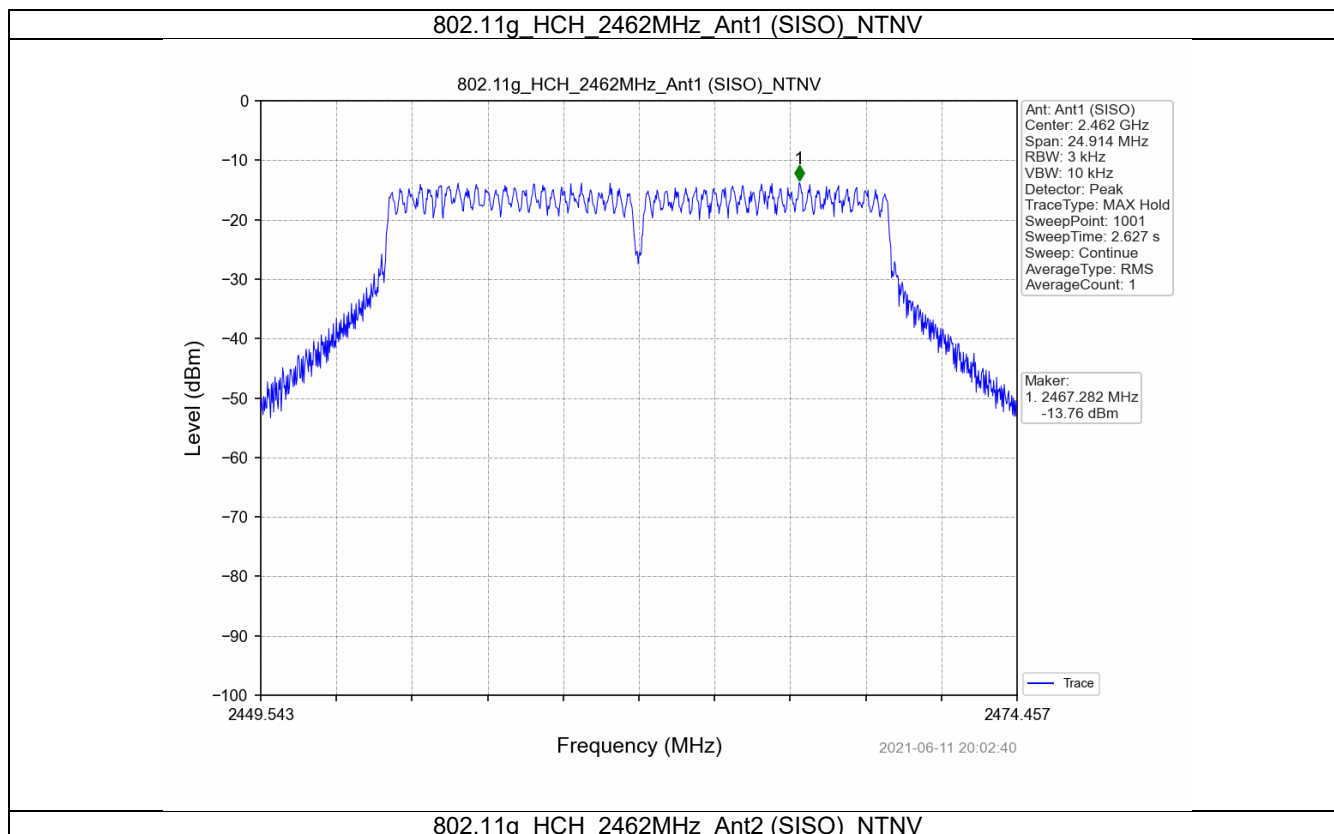
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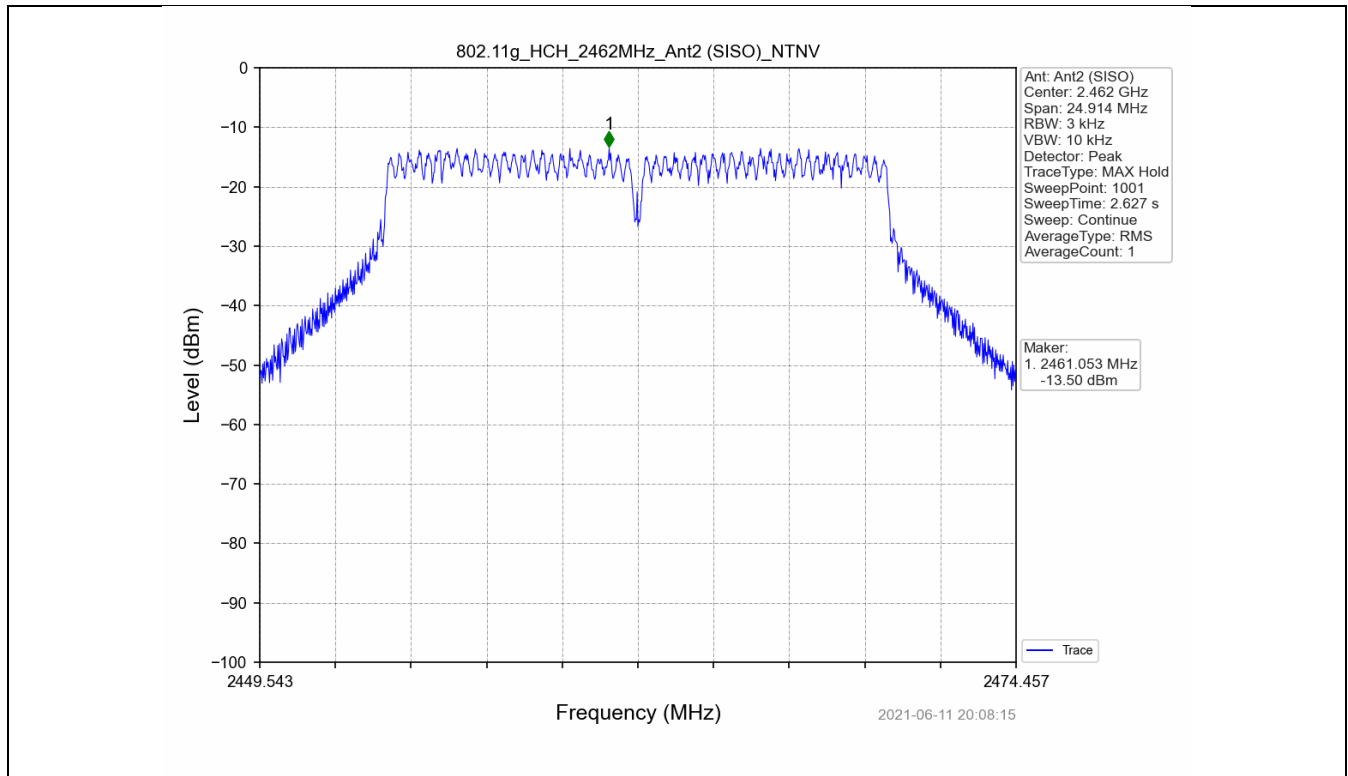
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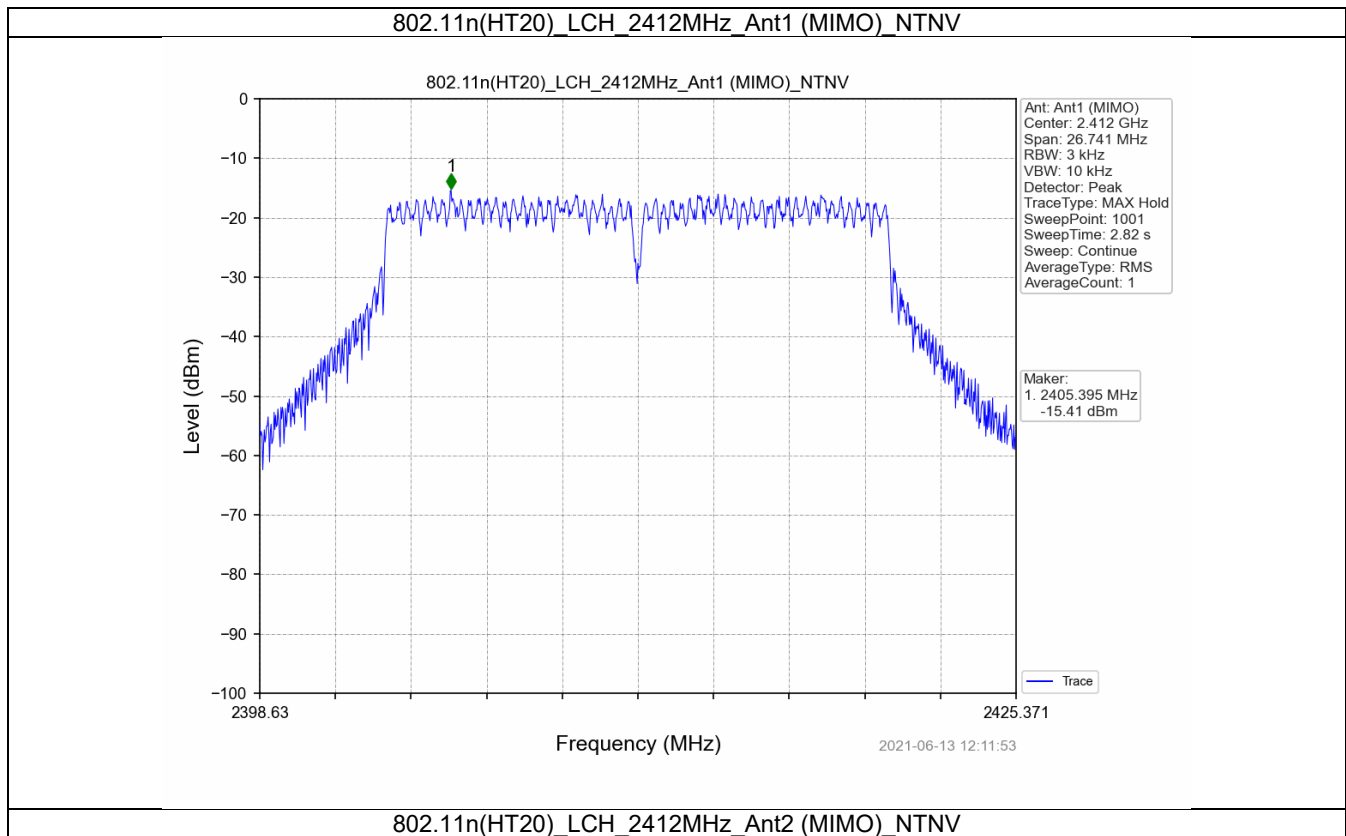
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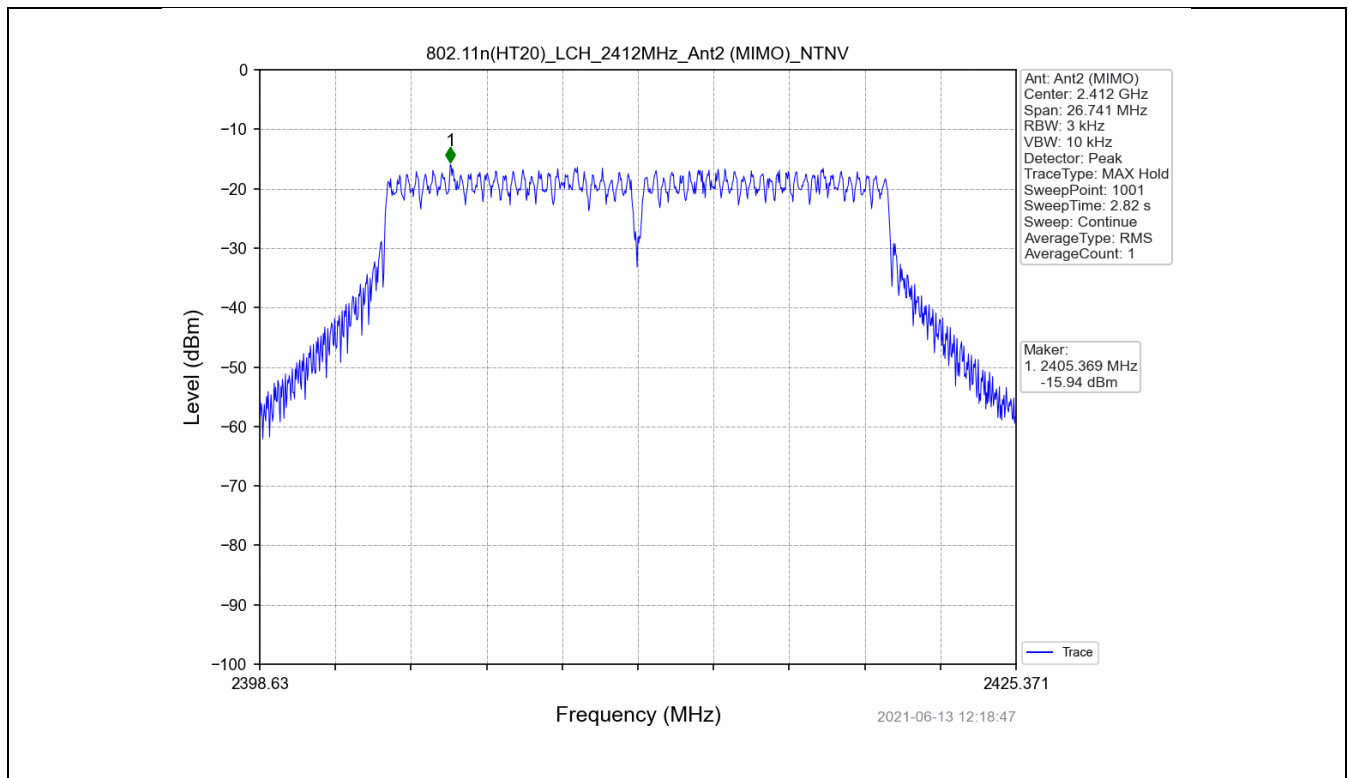
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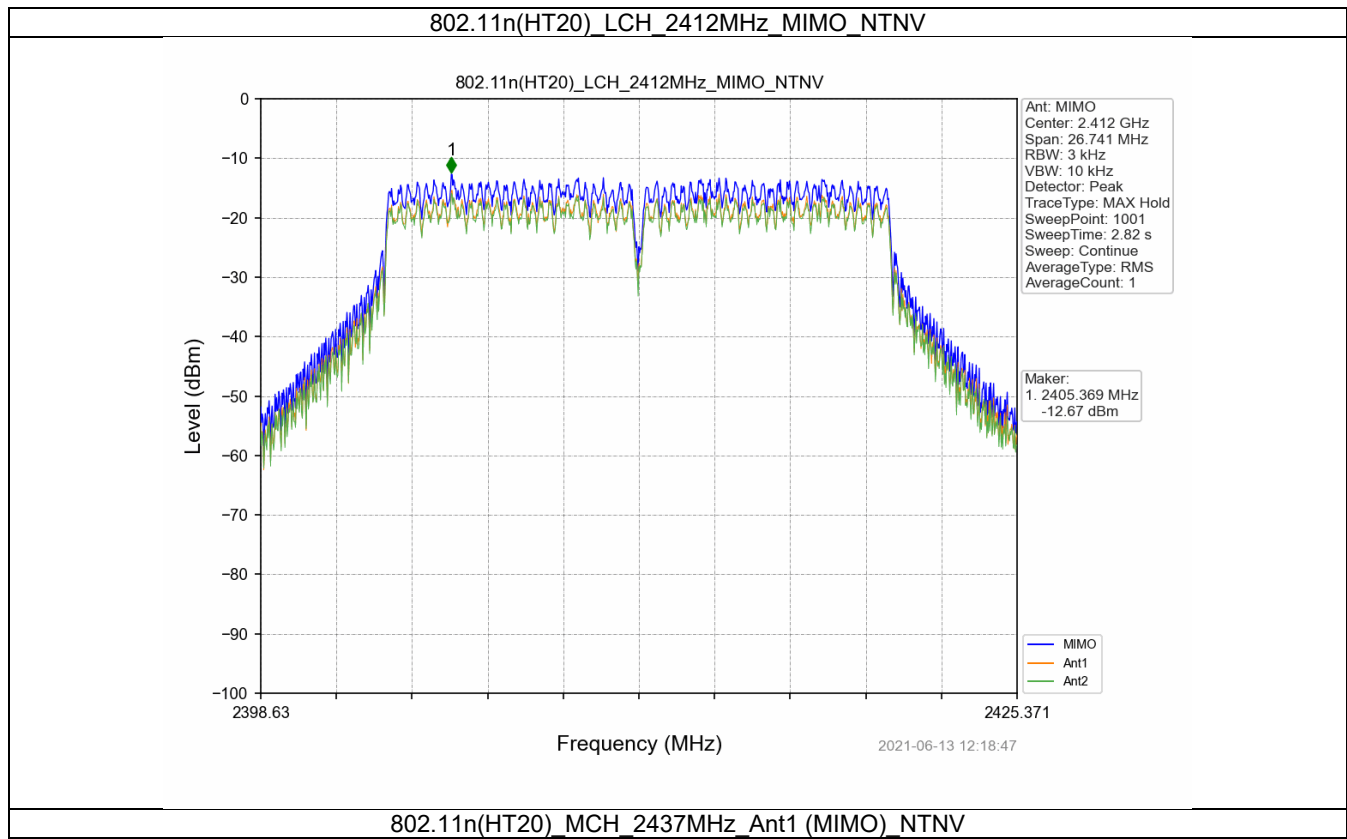
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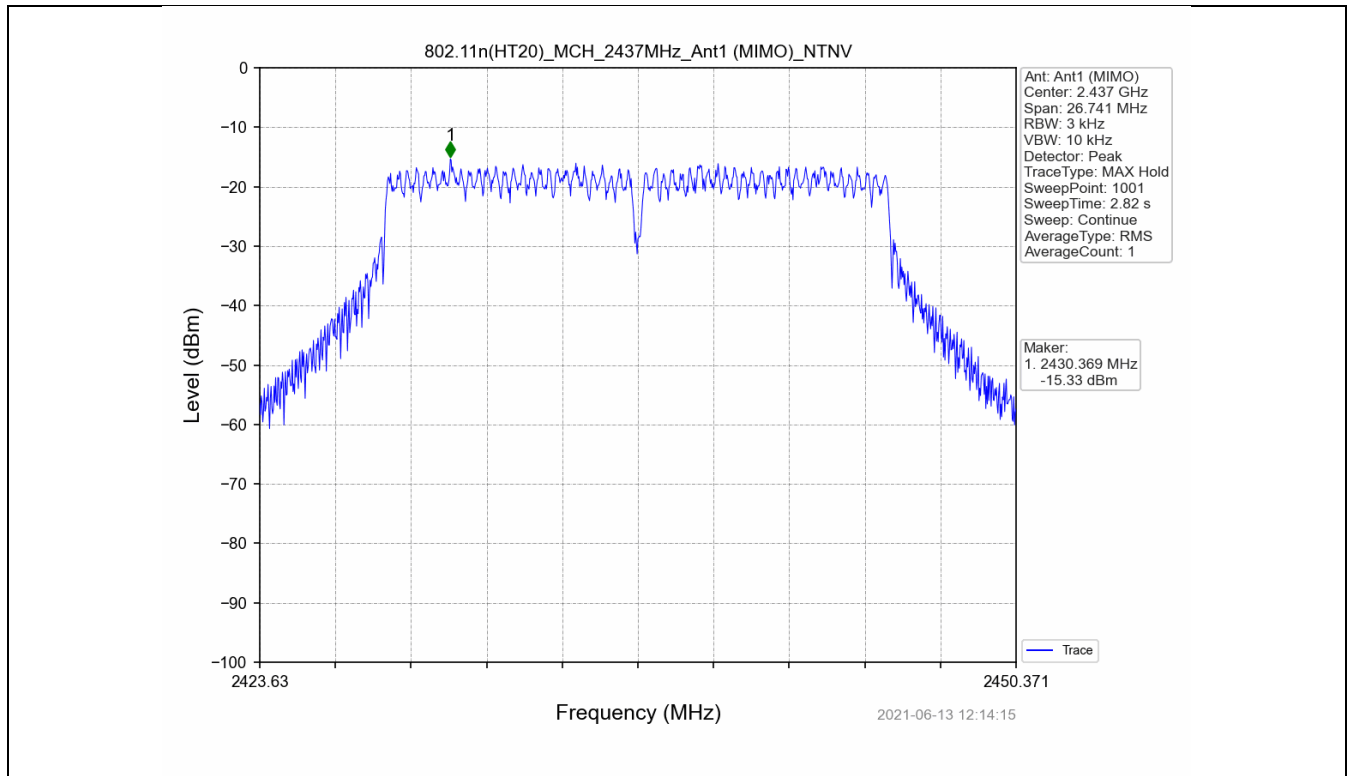


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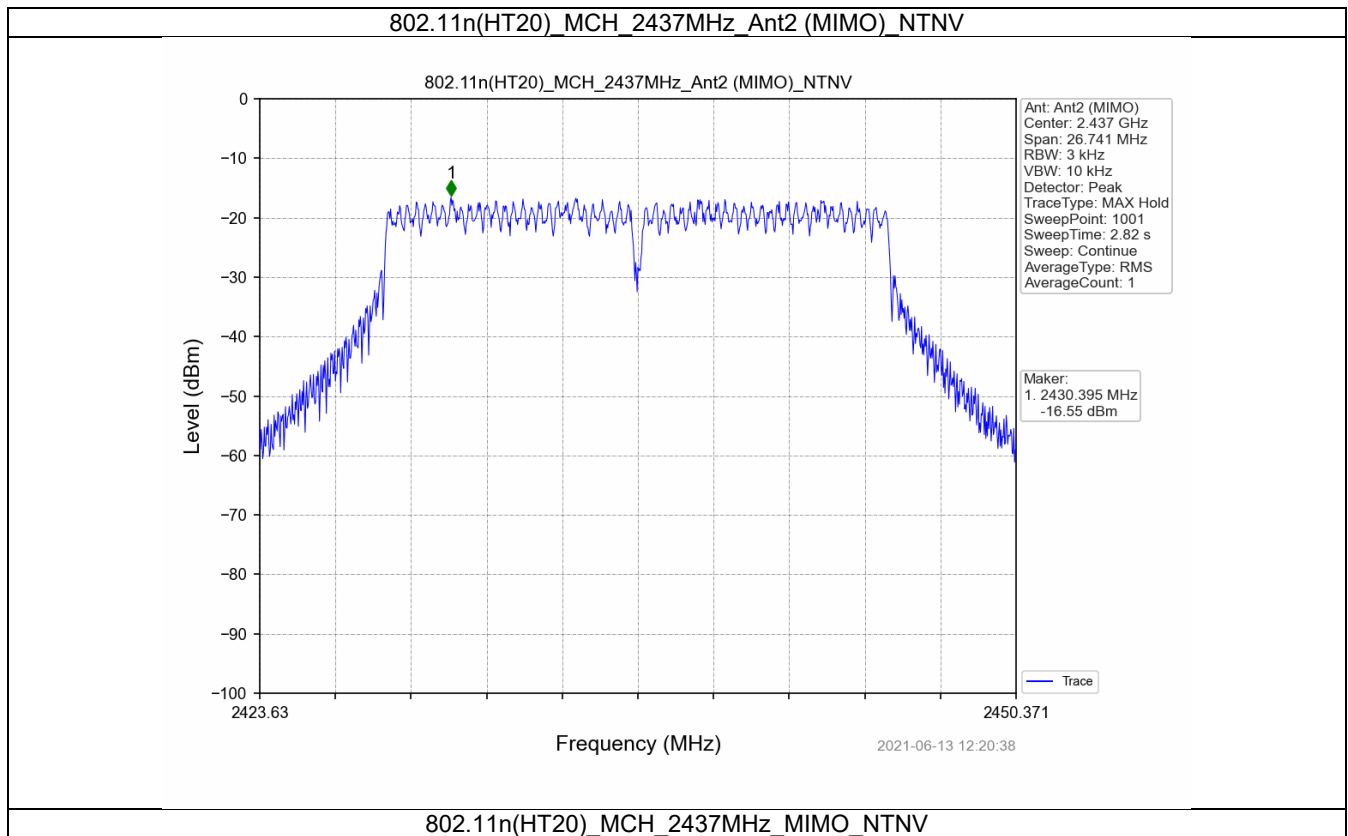


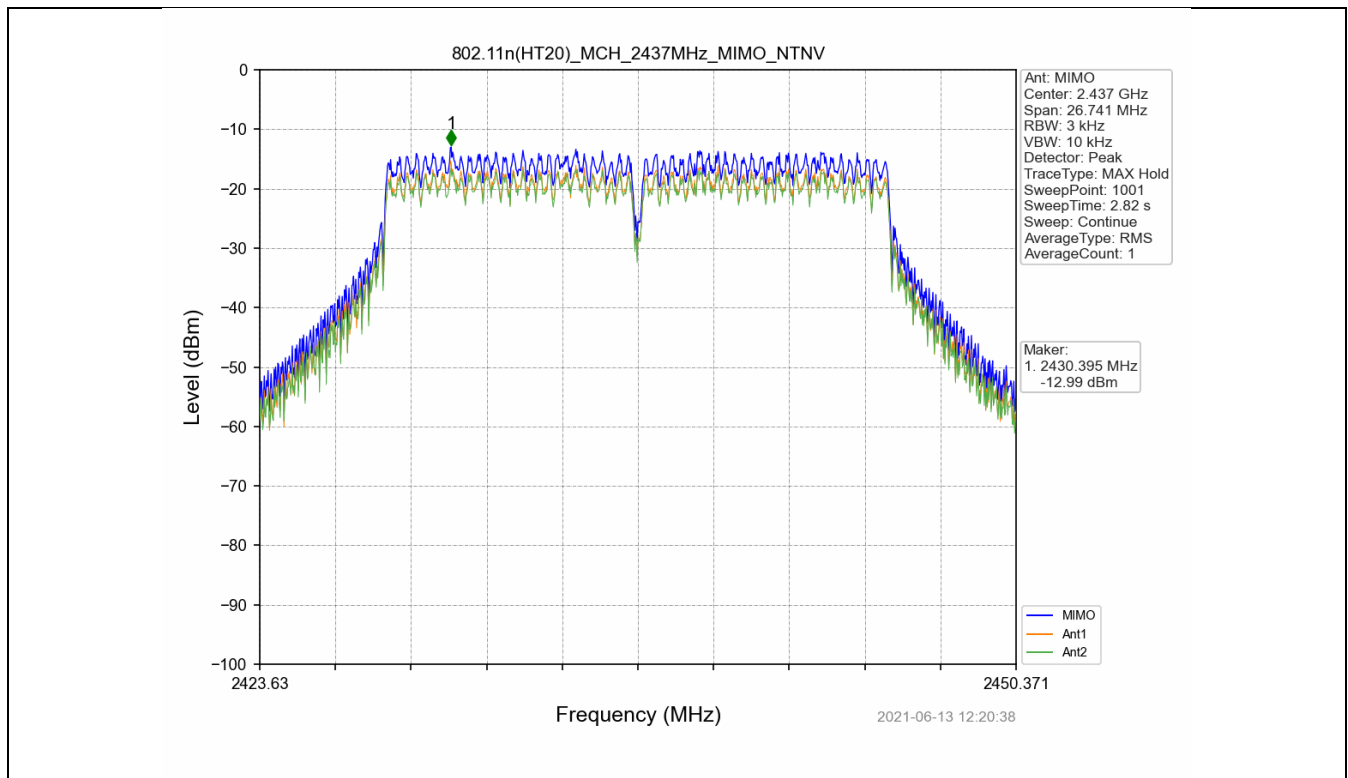


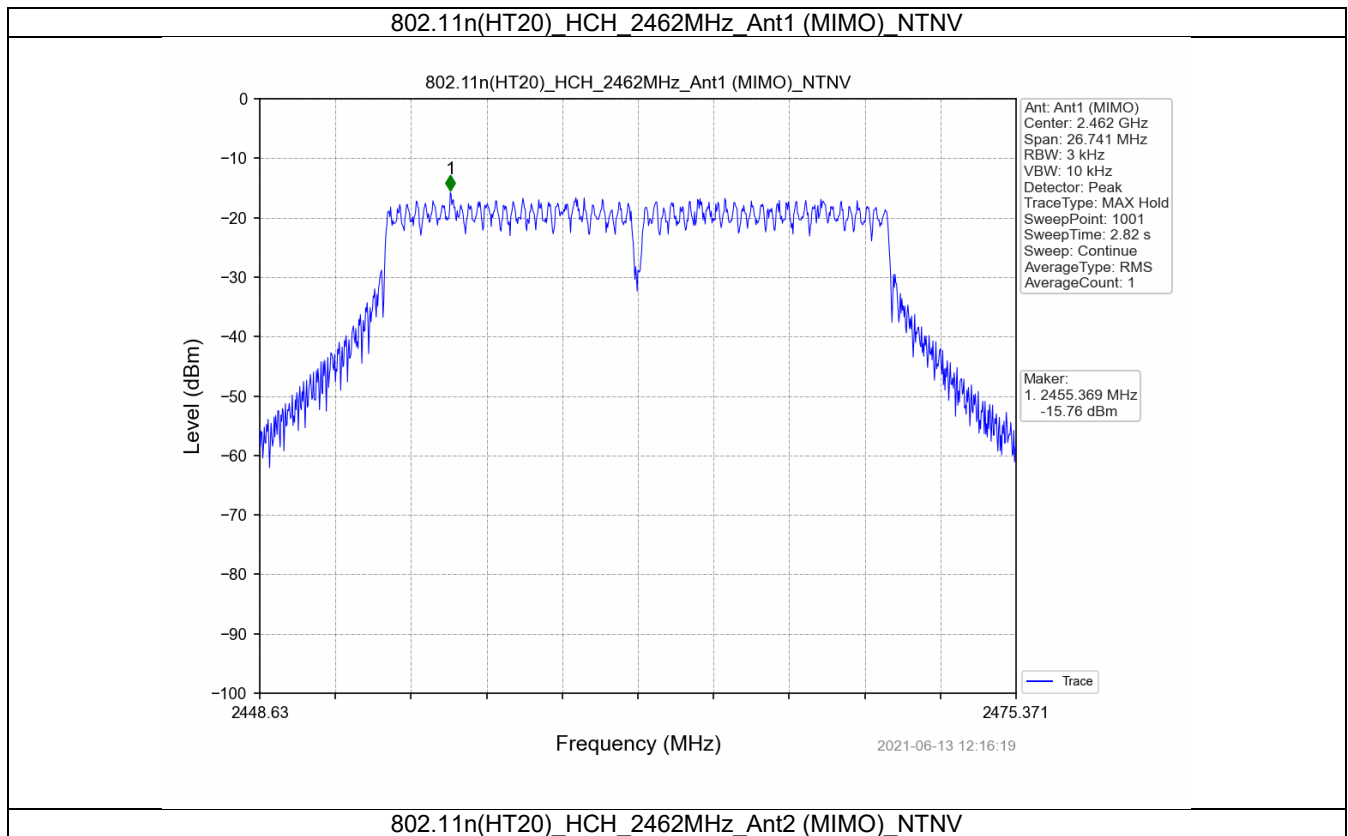


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