

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR241100232201

Page: 128 of 173

3. Maximum Conducted Output Power

3.1 Test Result

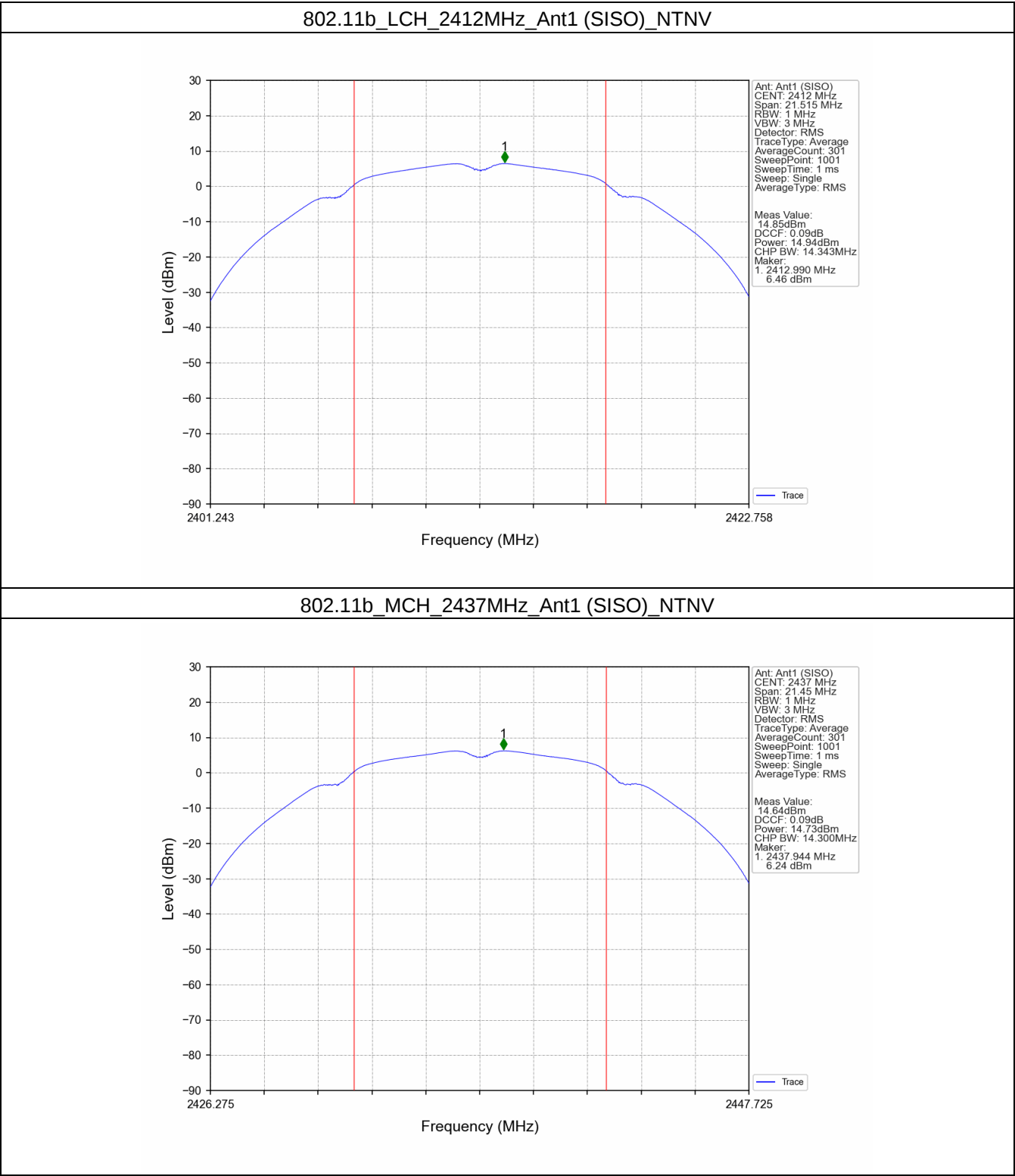
3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	14.94	<=30	Pass
		2437	/	/	14.73	<=30	Pass
		2462	/	/	13.78	<=30	Pass
802.11g	SISO	2412	/	/	14.26	<=30	Pass
		2437	/	/	14.43	<=30	Pass
		2462	/	/	14.03	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	14.23	<=30	Pass
		2437	/	/	14.42	<=30	Pass
		2462	/	/	14.83	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	14.08	<=30	Pass
		2437	/	/	14.24	<=30	Pass
		2452	/	/	14.08	<=30	Pass
802.11ax (HE20)	SISO	2412	SU	/	14.14	<=30	Pass
		2437	SU	/	14.33	<=30	Pass
		2462	SU	/	14.83	<=30	Pass
802.11ax (HE40)	SISO	2422	SU	/	14.12	<=30	Pass
		2437	SU	/	14.29	<=30	Pass
		2452	SU	/	14.06	<=30	Pass

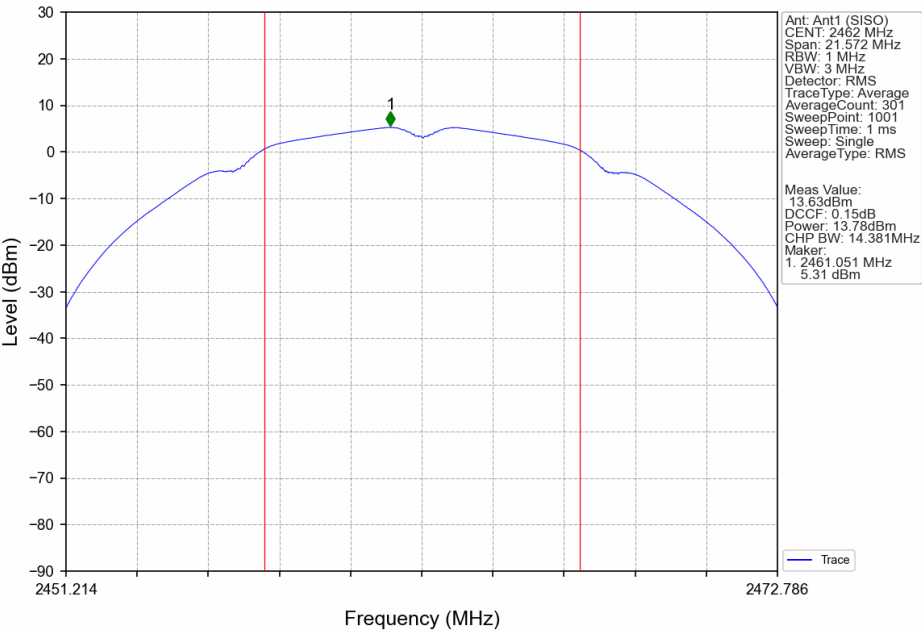
Note1: Antenna Gain: Ant1: 5.03dBi;

3.2 Test Graph

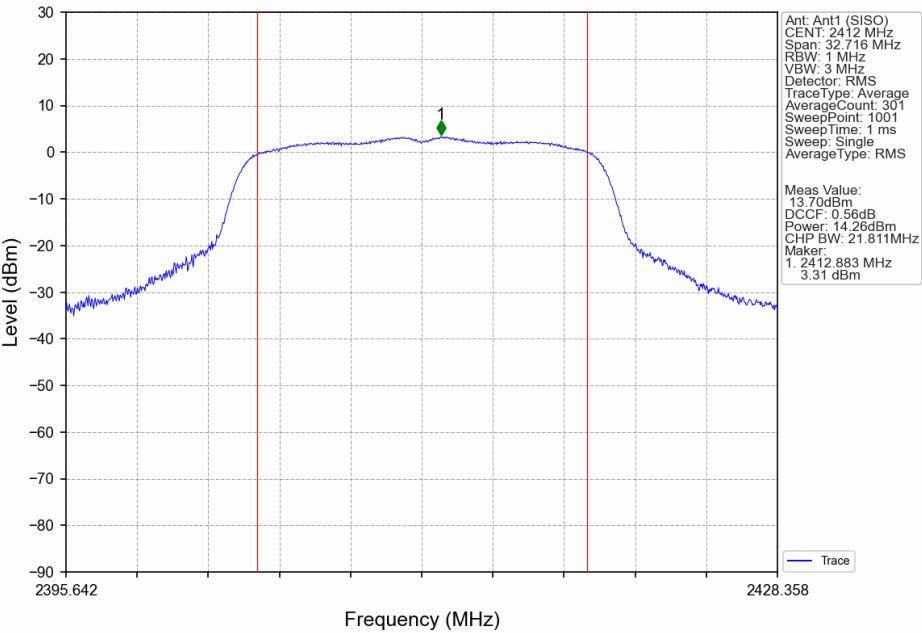
3.2.1 Power



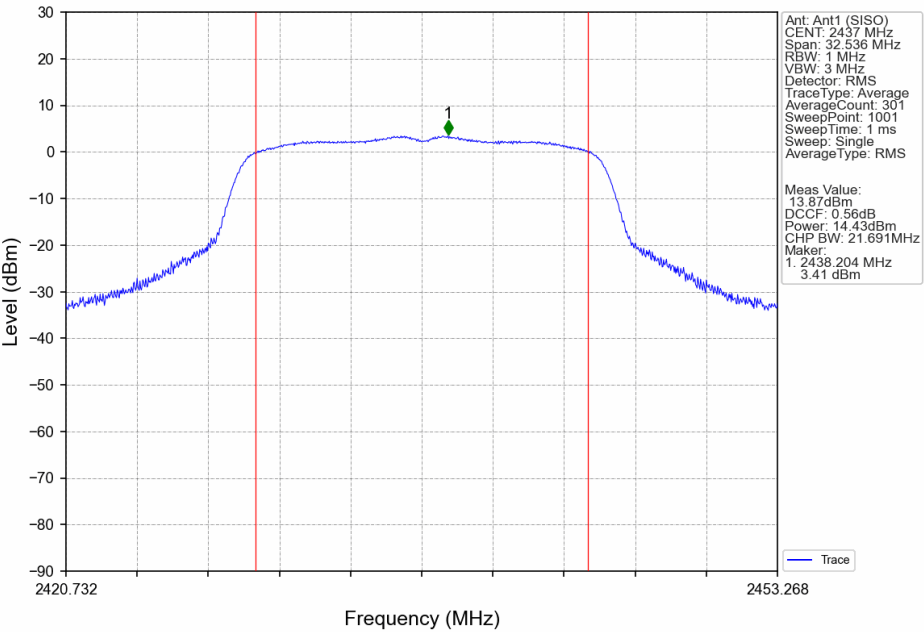
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



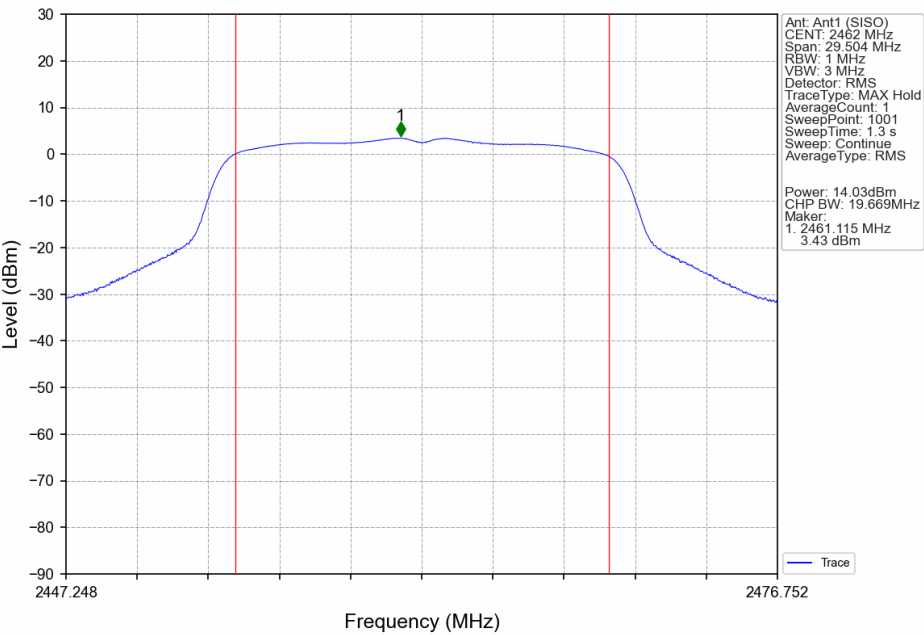
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



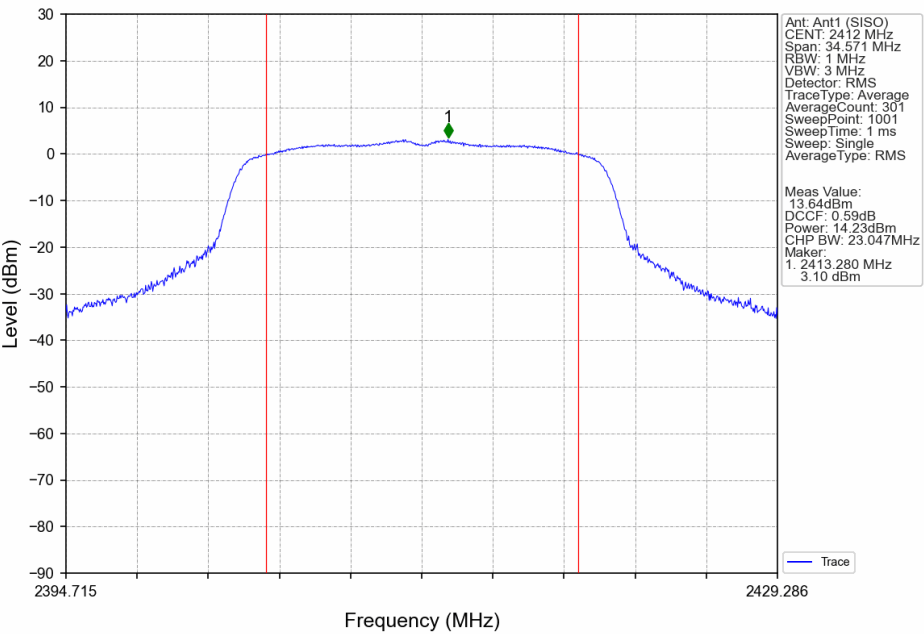
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



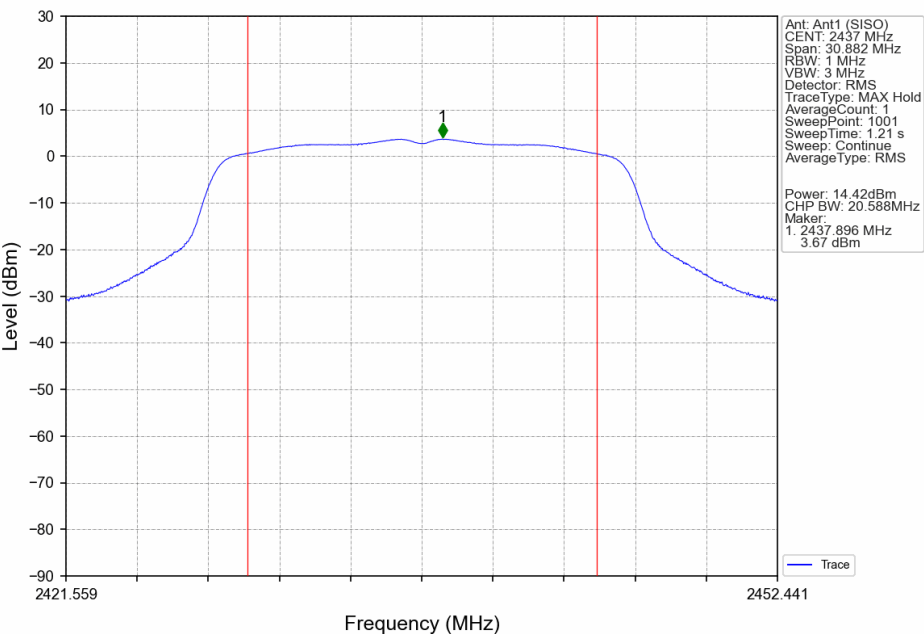
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



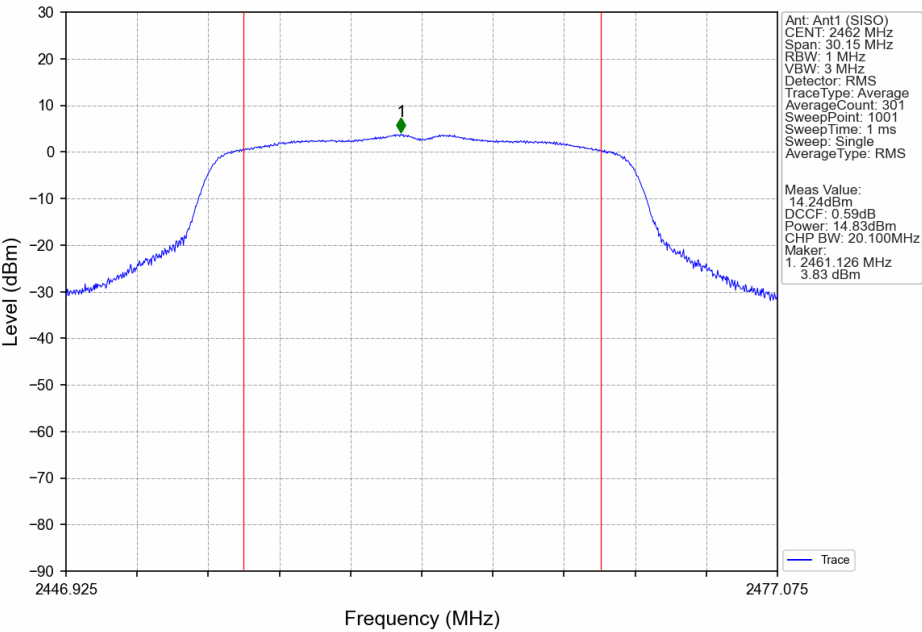
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



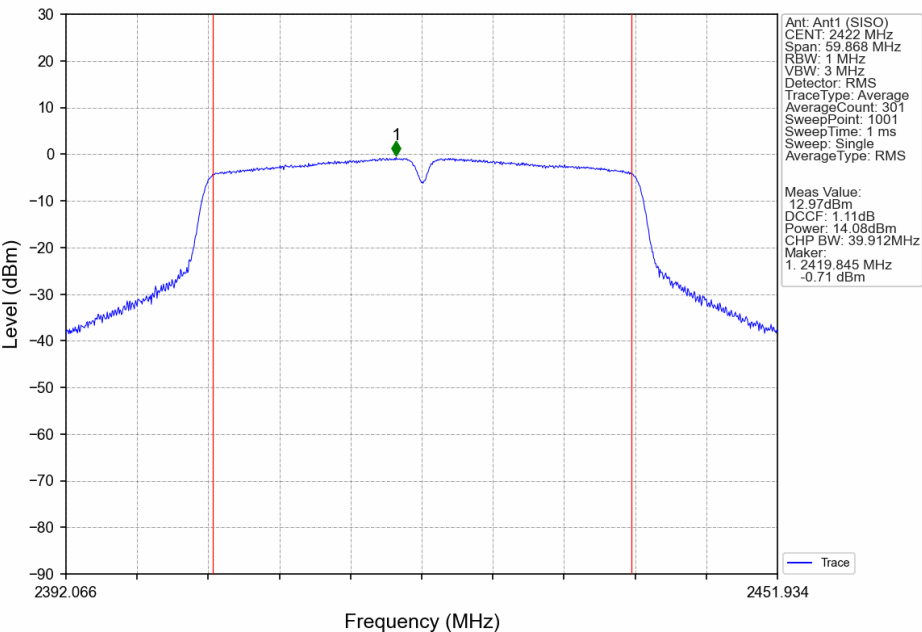
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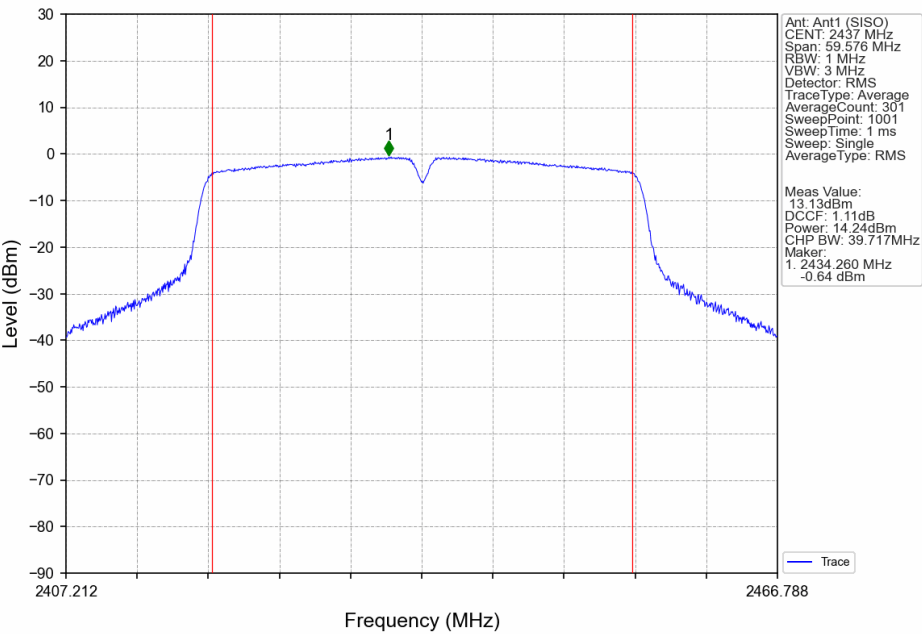
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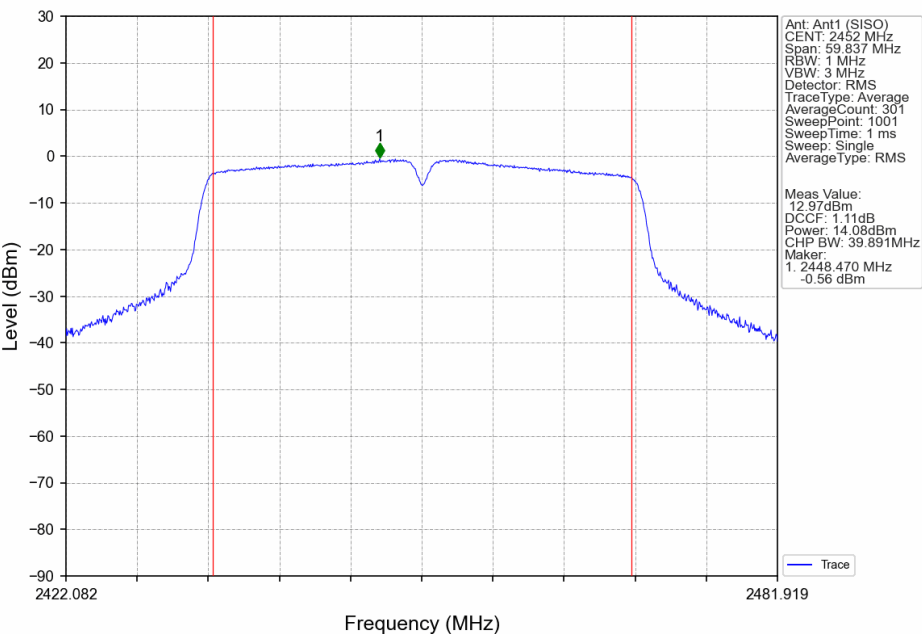
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



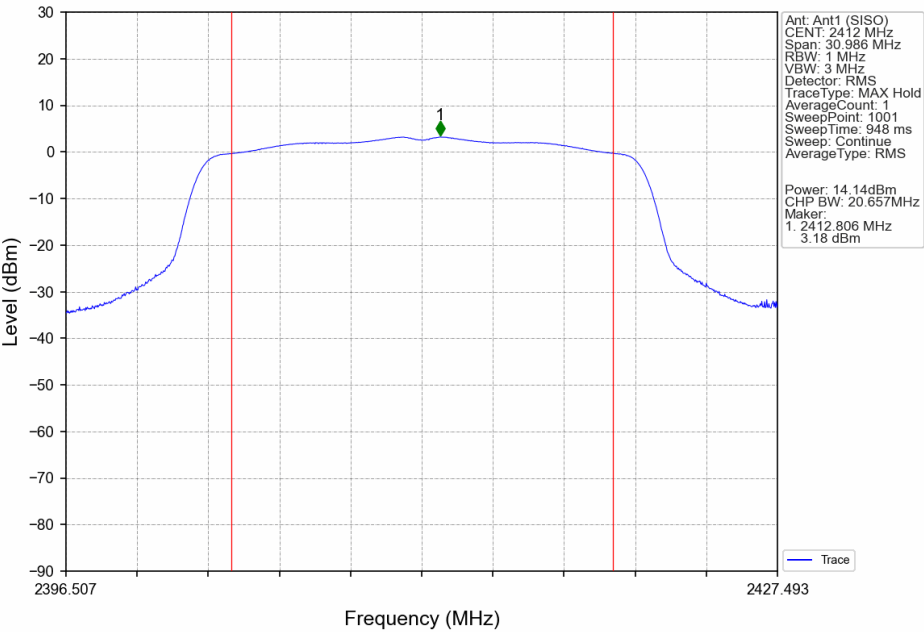
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



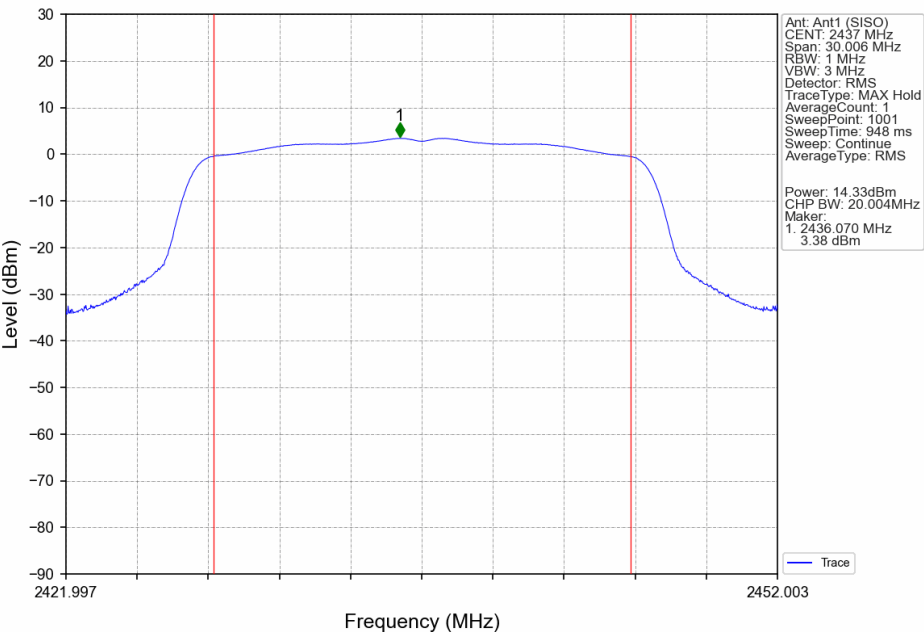
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



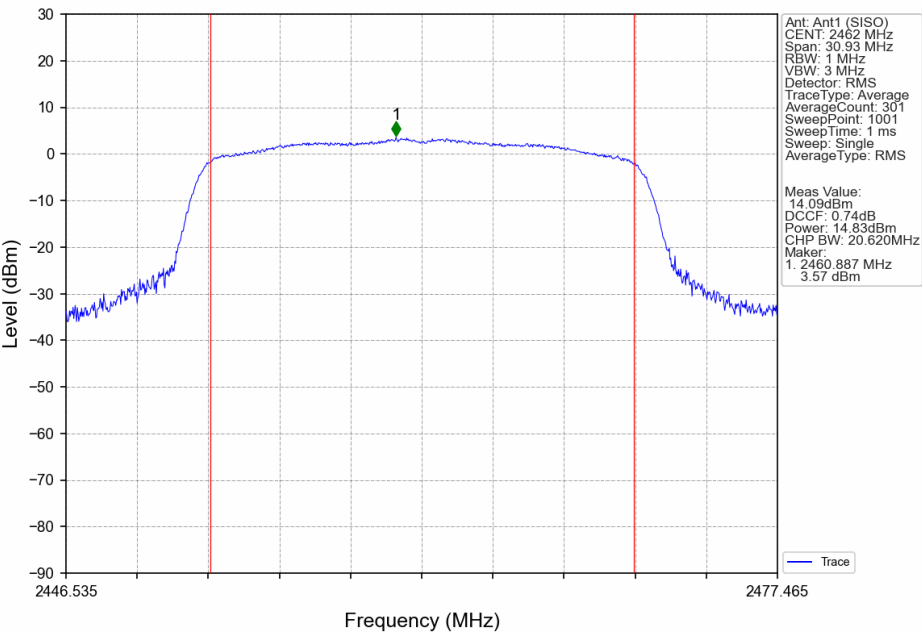
802.11ax(HE20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



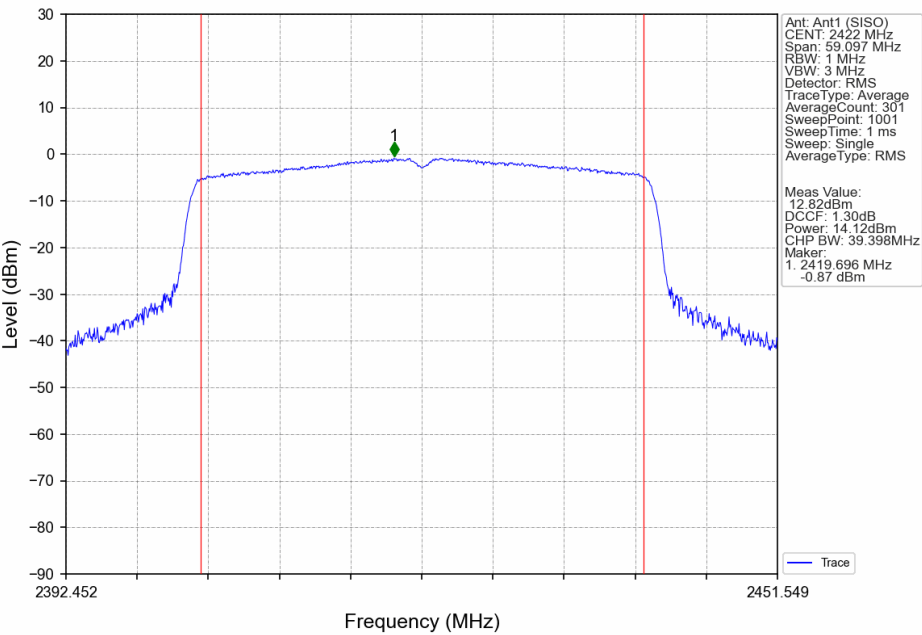
802.11ax(HE20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



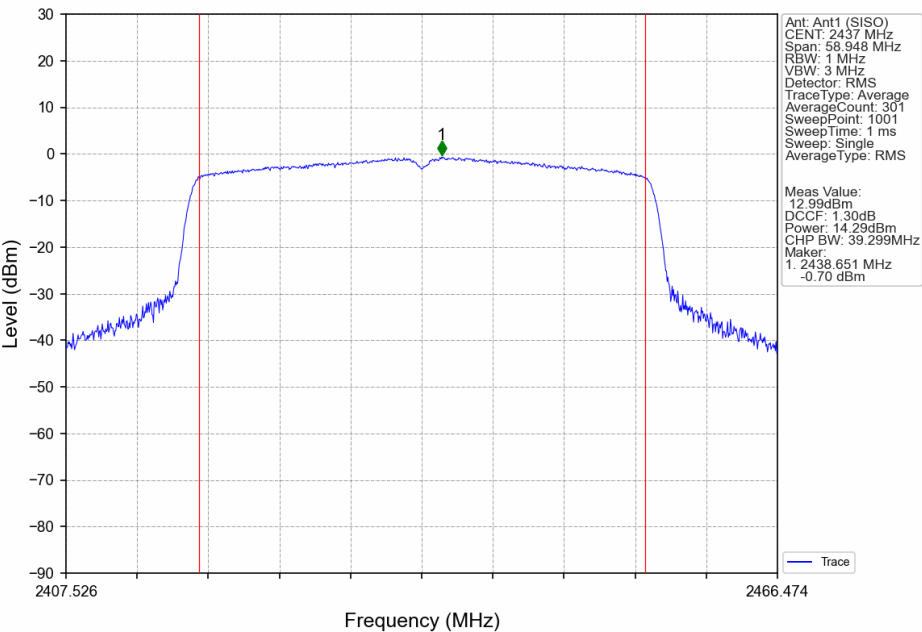
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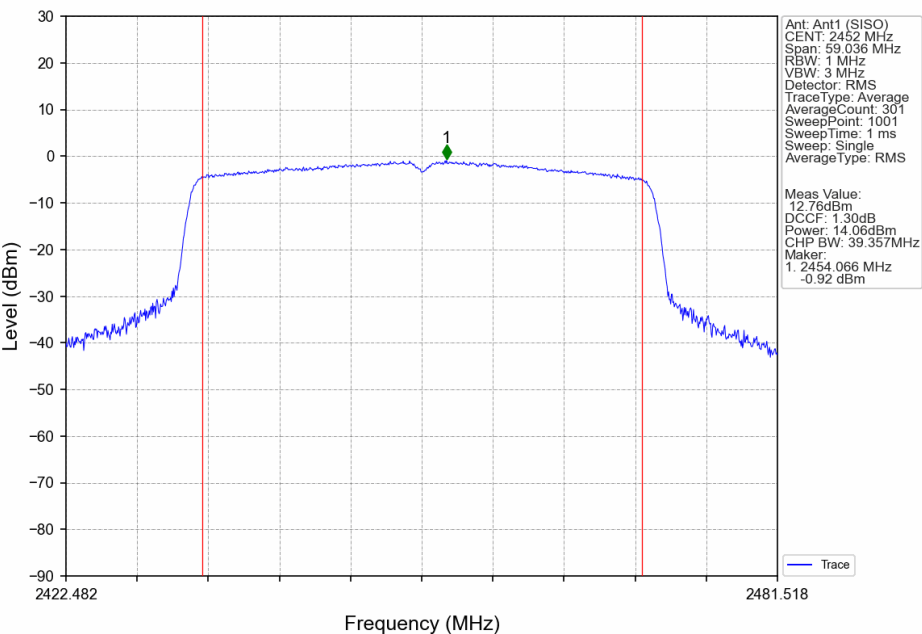
802.11ax(HE40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HE40)_MCH_2437MHz_SU / _Ant1 (SISO)_NTNV



802.11ax(HE40)_HCH_2452MHz_SU / _Ant1 (SISO)_NTNV



4. Maximum Power Spectral Density

4.1 Test Result

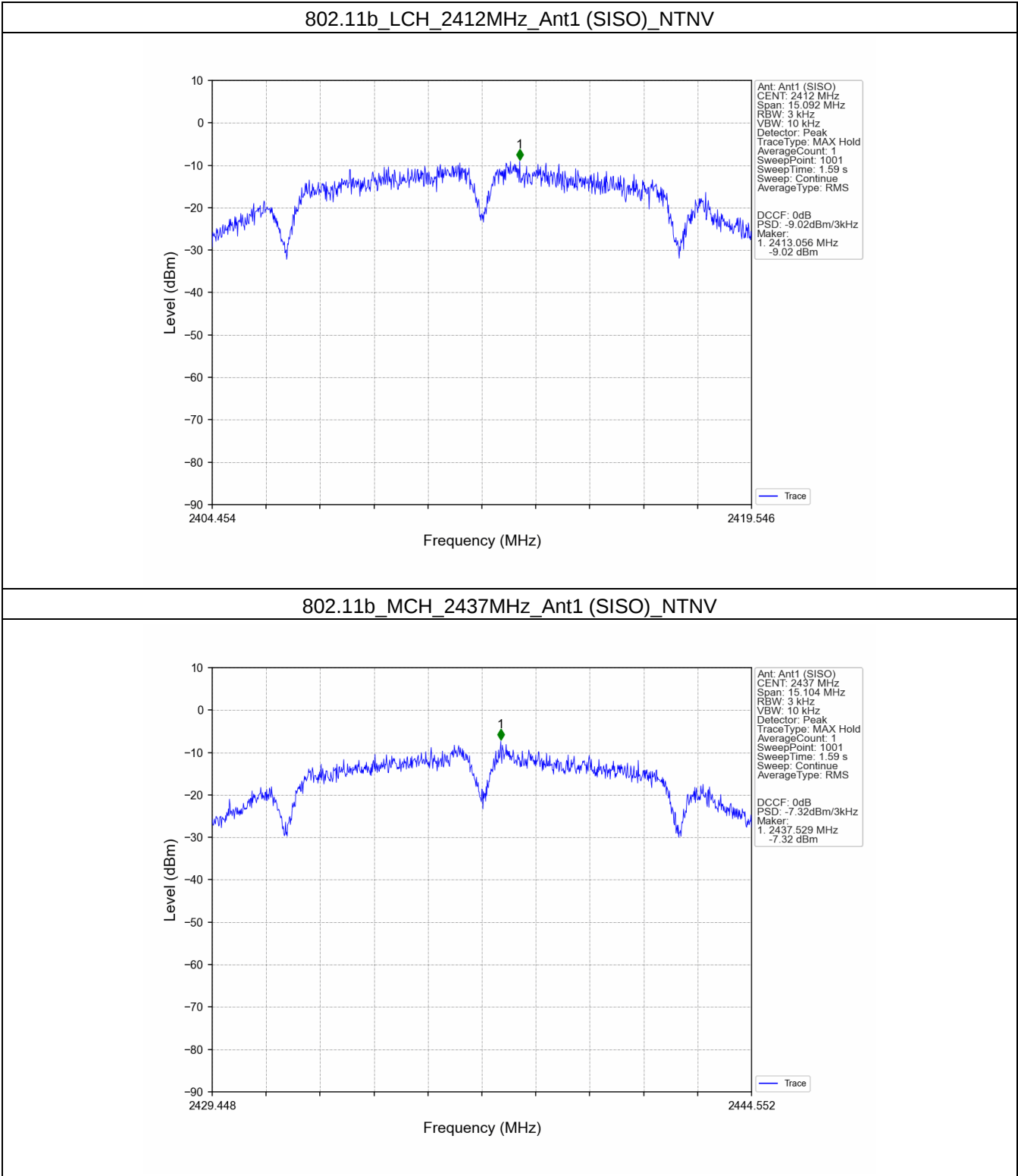
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	-9.02	<=8	Pass
		2437	/	/	-7.32	<=8	Pass
		2462	/	/	-9.70	<=8	Pass
802.11g	SISO	2412	/	/	-10.81	<=8	Pass
		2437	/	/	-10.11	<=8	Pass
		2462	/	/	-10.87	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-11.32	<=8	Pass
		2437	/	/	-11.24	<=8	Pass
		2462	/	/	-10.48	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-14.53	<=8	Pass
		2437	/	/	-14.12	<=8	Pass
		2452	/	/	-14.15	<=8	Pass
802.11ax (HE20)	SISO	2412	SU	/	-11.90	<=8	Pass
		2437	SU	/	-11.48	<=8	Pass
		2462	SU	/	-10.28	<=8	Pass
802.11ax (HE40)	SISO	2422	SU	/	-14.75	<=8	Pass
		2437	SU	/	-14.29	<=8	Pass
		2452	SU	/	-15.28	<=8	Pass

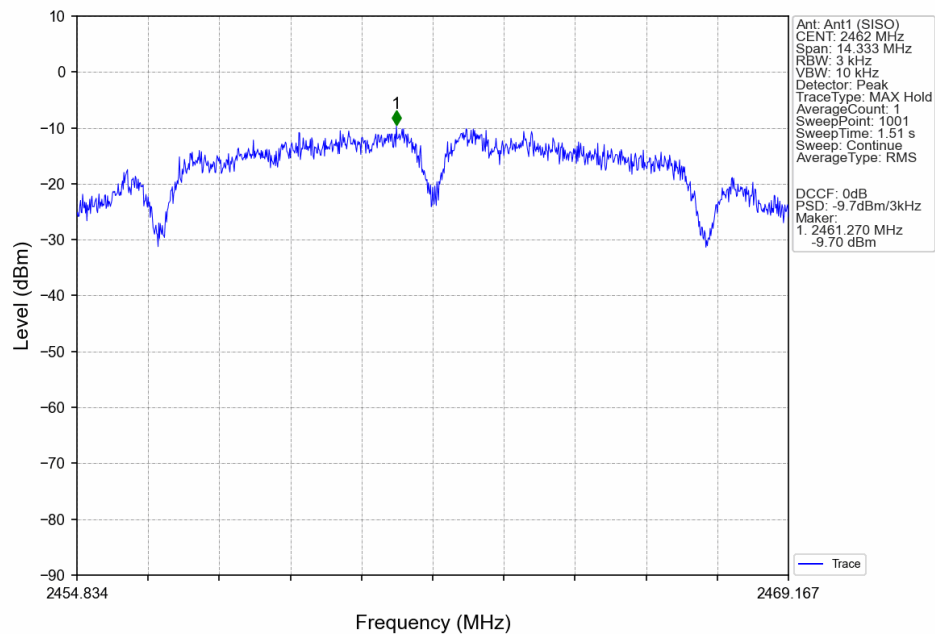
Note1: Antenna Gain: Ant1: 5.03dBi;

4.2 Test Graph

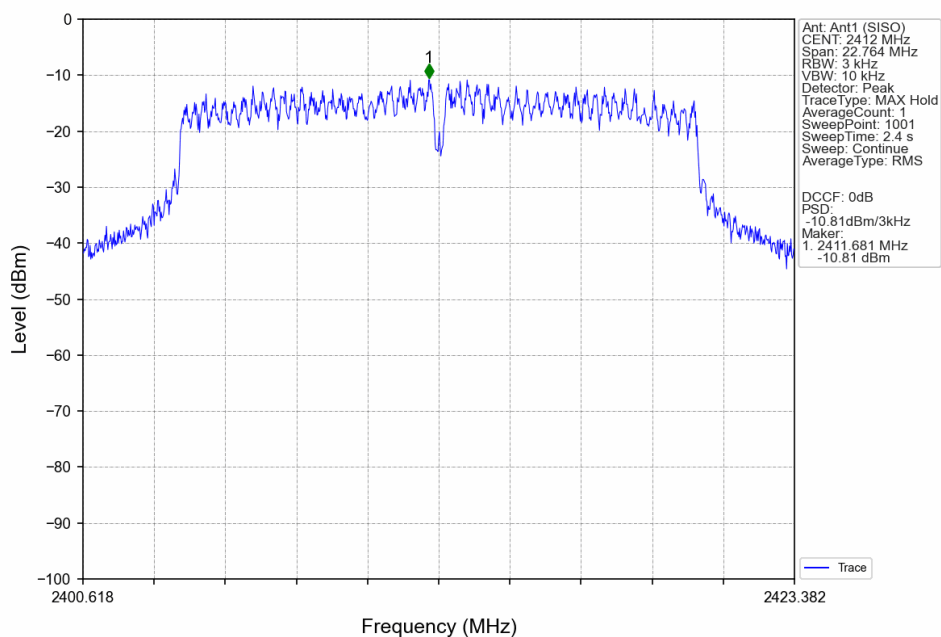
4.2.1 PSD



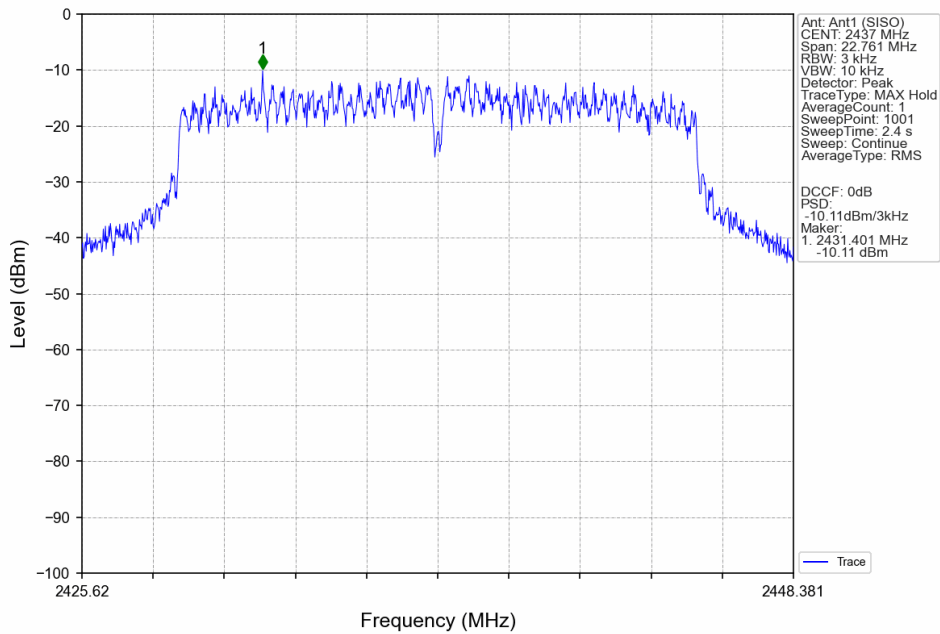
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



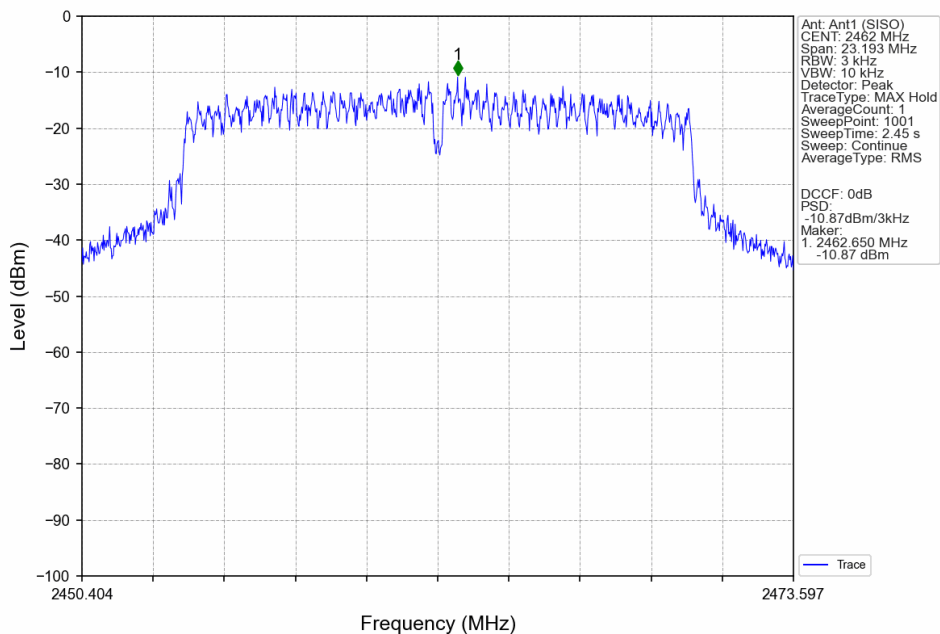
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



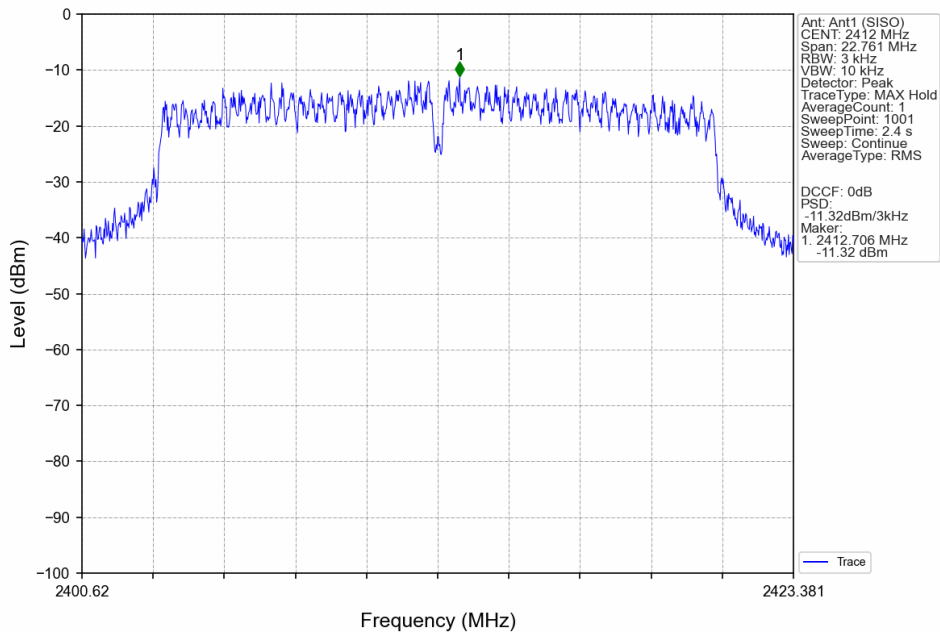
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



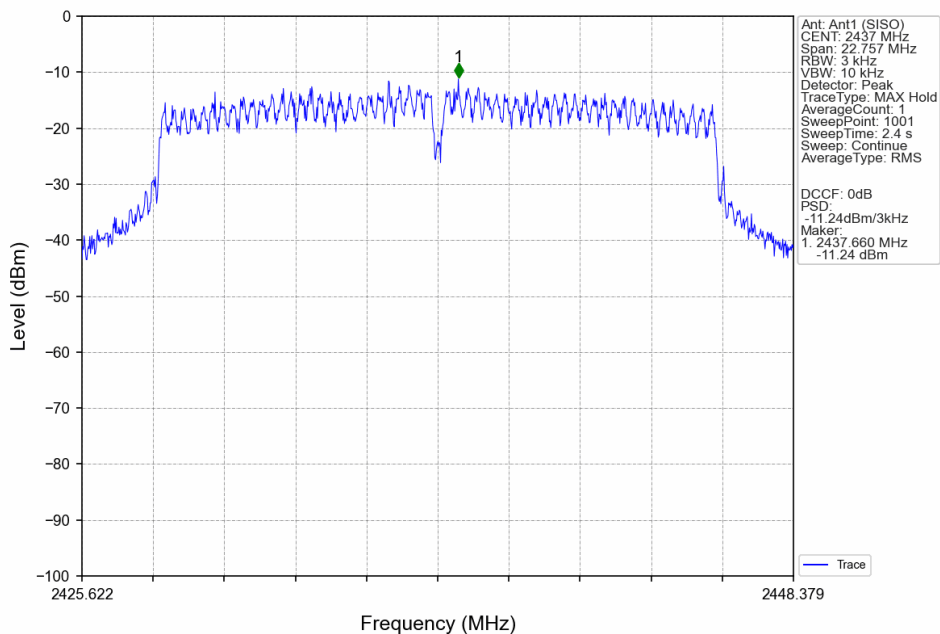
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



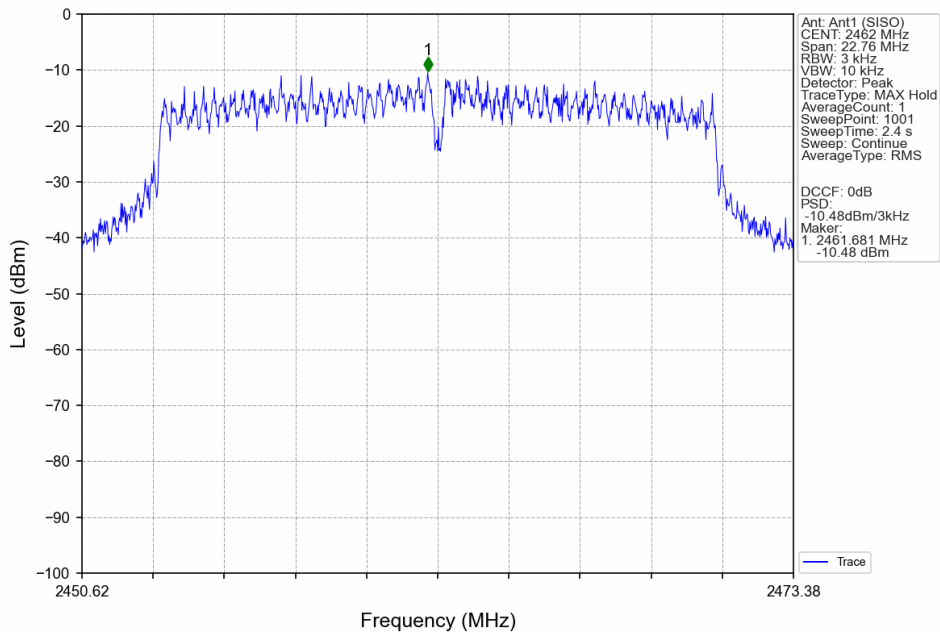
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



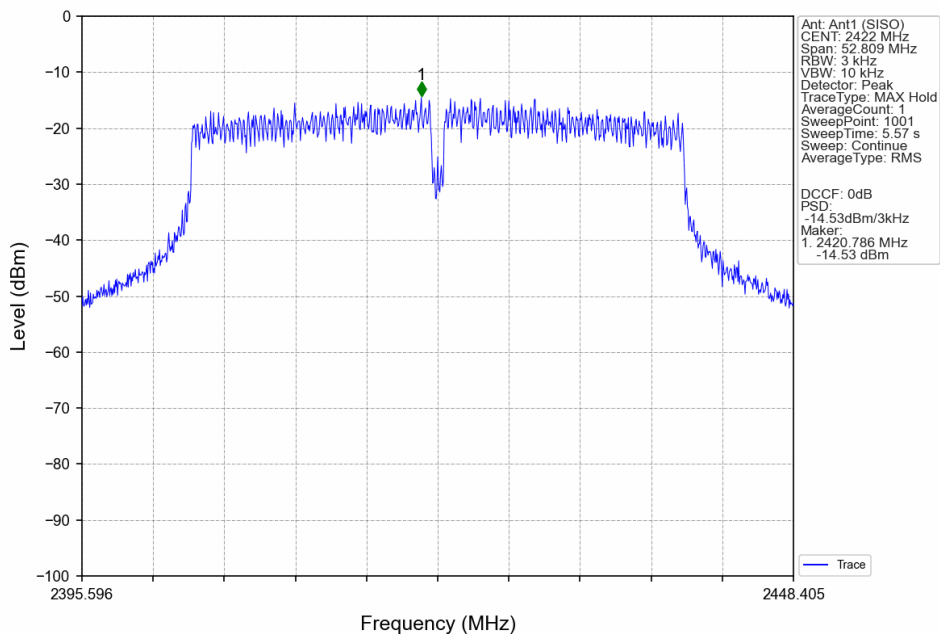
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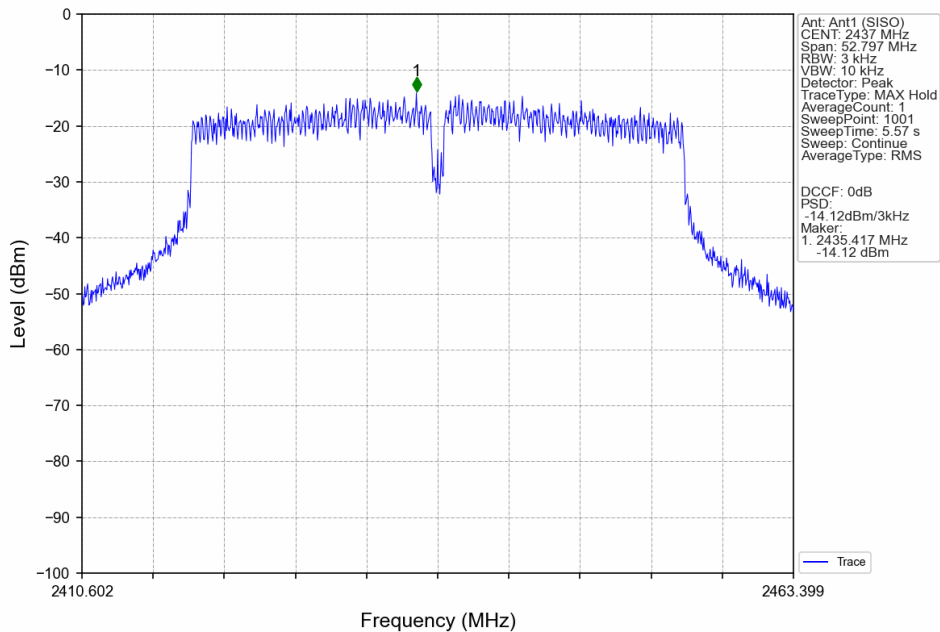
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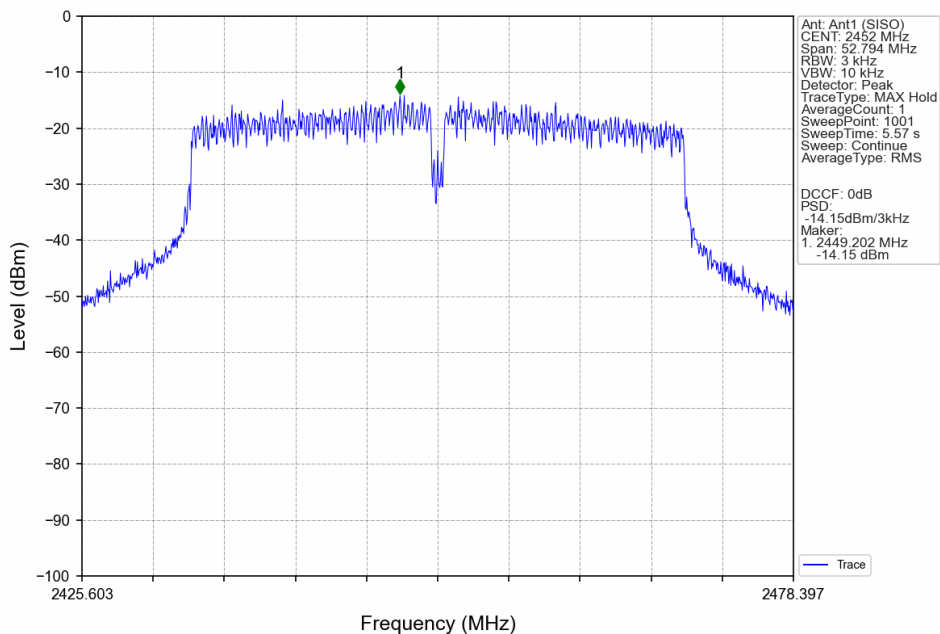
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



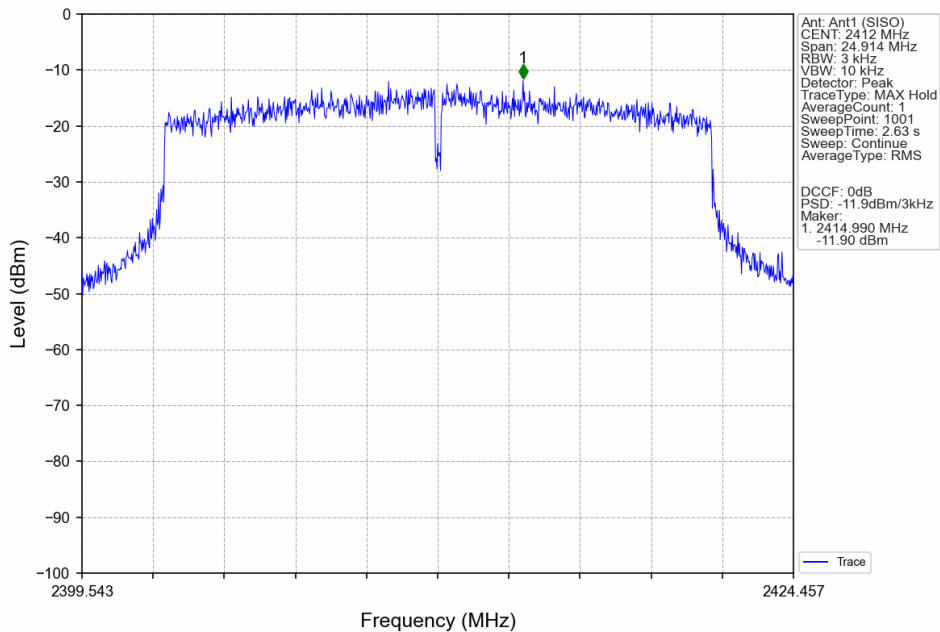
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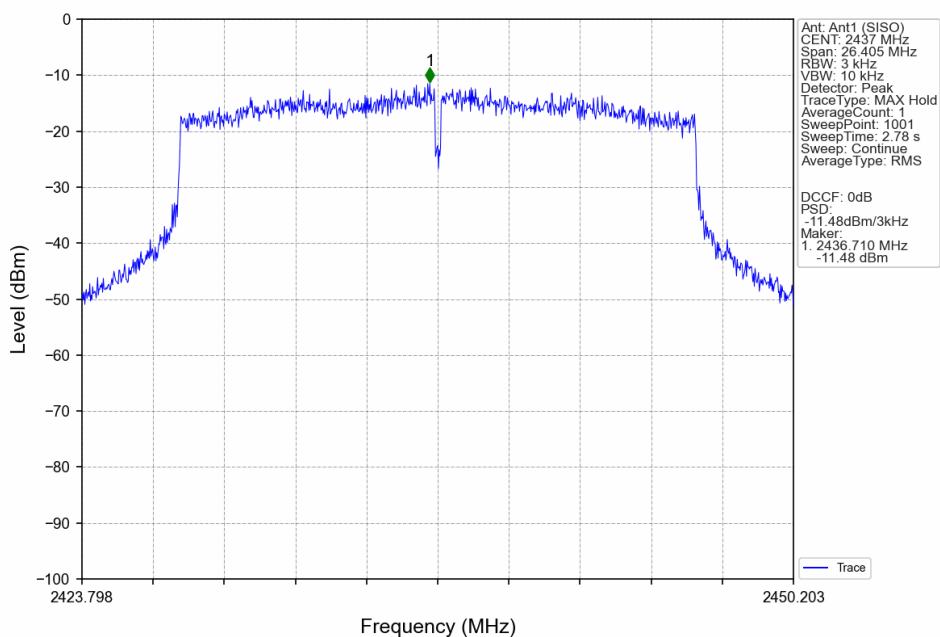
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



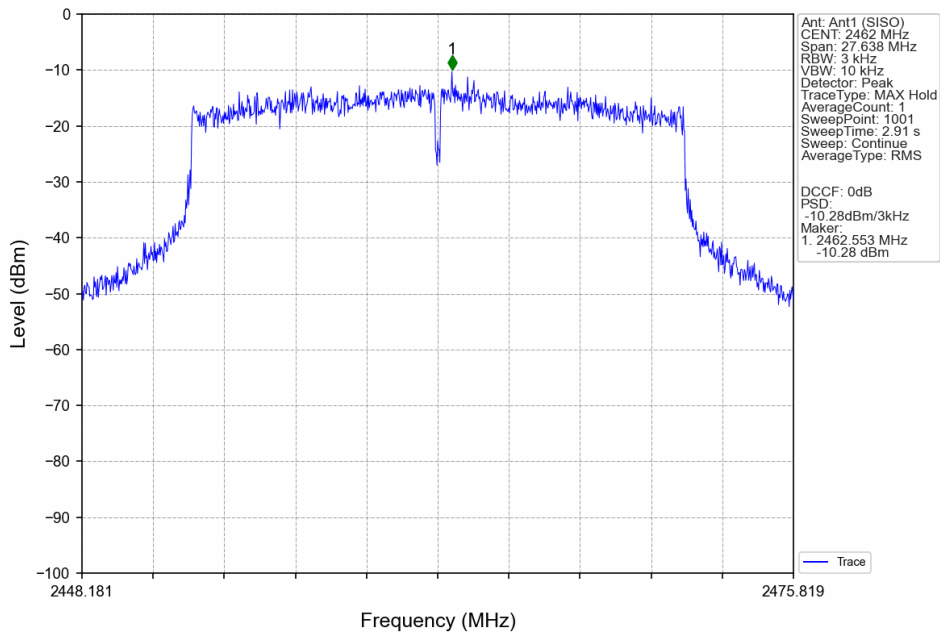
802.11ax(HE20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



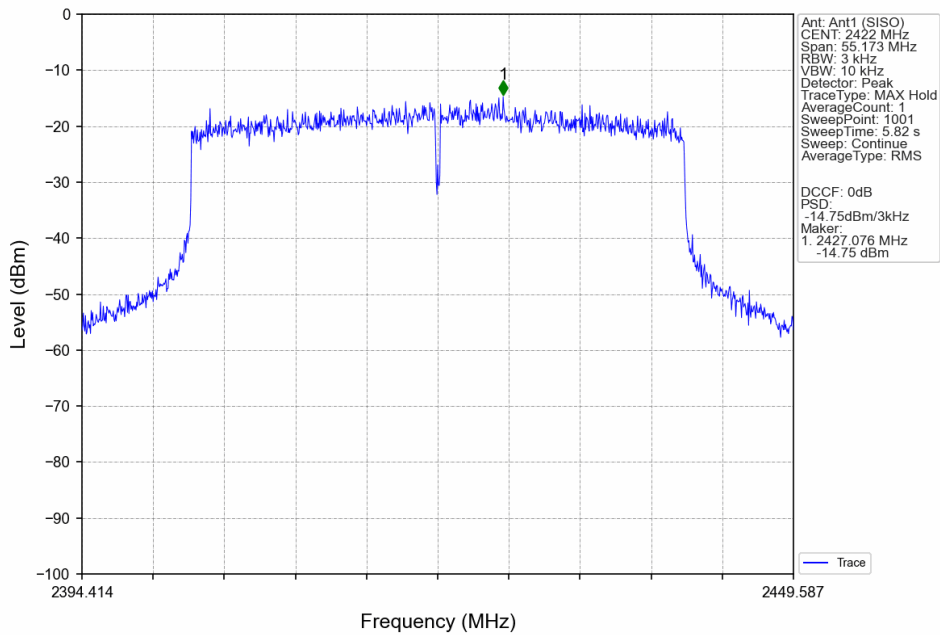
802.11ax(HE20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



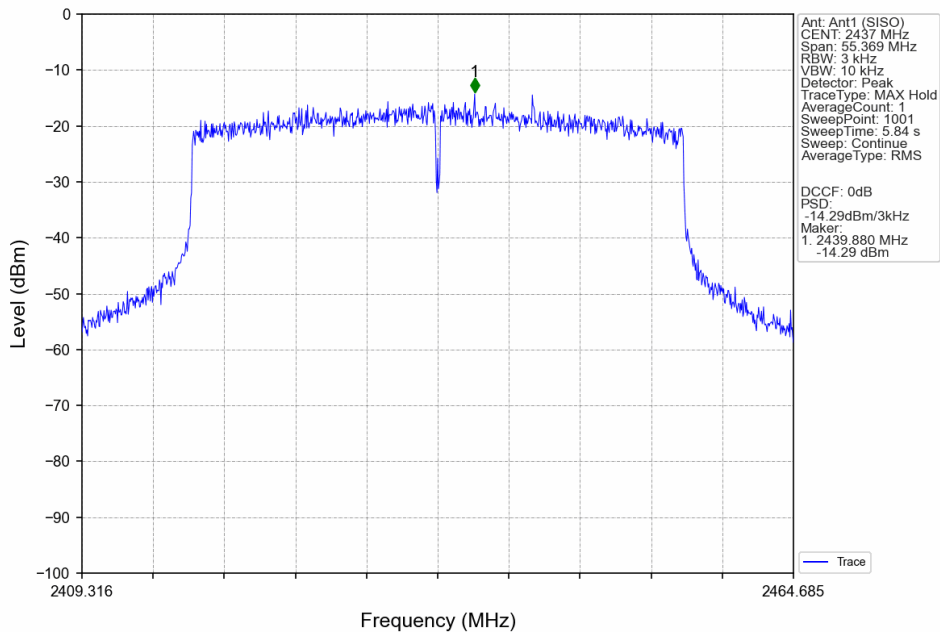
802.11ax(HE20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



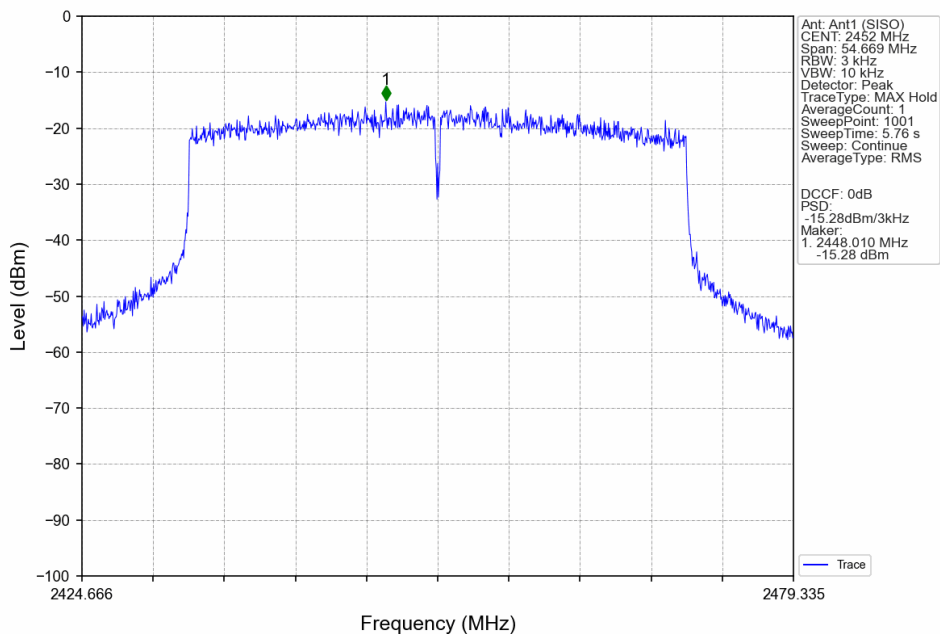
802.11ax(HE40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HE40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HE40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	6.38
		2437	/	/	1	6.38
		2462	/	/	1	5.47
802.11g	SISO	2412	/	/	1	3.87
		2437	/	/	1	4.42
		2462	/	/	1	3.82
802.11n (HT20)	SISO	2412	/	/	1	3.20
		2437	/	/	1	3.43
		2462	/	/	1	4.78
802.11n (HT40)	SISO	2422	/	/	1	-3.94
		2437	/	/	1	1.07
		2452	/	/	1	0.78
802.11ax (HE20)	SISO	2412	SU	/	1	-0.57
		2437	SU	/	1	4.35
		2462	SU	/	1	4.80
802.11ax (HE40)	SISO	2422	SU	/	1	1.02
		2437	SU	/	1	1.12
		2452	SU	/	1	0.91

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 CSE

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	6.38	-23.62	Pass
		2437	/	/	1	6.38	-23.62	Pass
		2462	/	/	1	6.38	-23.62	Pass
802.11g	SISO	2412	/	/	1	4.42	-25.58	Pass
		2437	/	/	1	4.42	-25.58	Pass
		2462	/	/	1	4.42	-25.58	Pass



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CCSEM-TRF-001 Rev. 02 Sep 01, 2023

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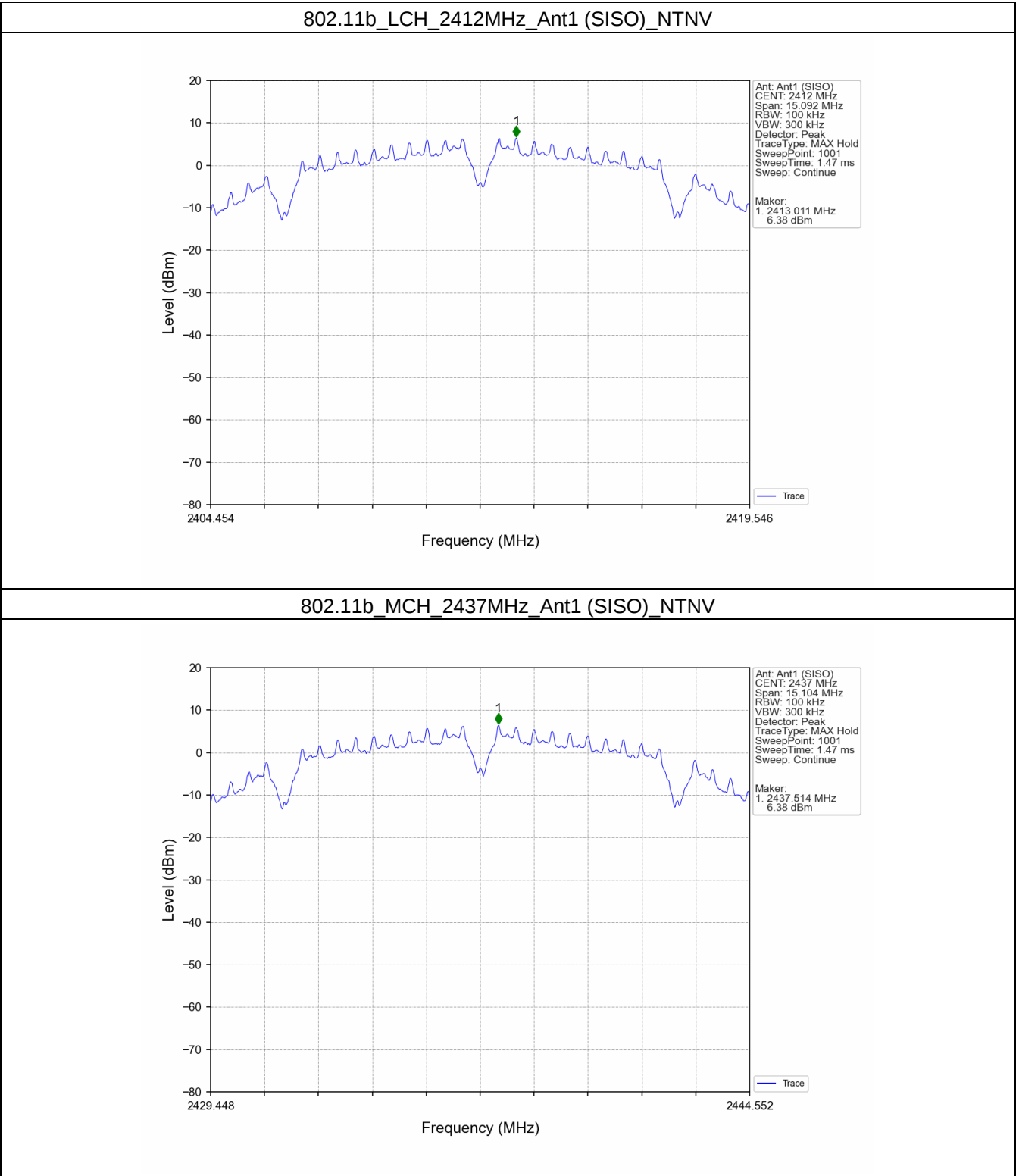
Page: 149 of 173

802.11n (HT20)	SISO	2412	/	/	1	4.78	-25.22	Pass
		2437	/	/	1	4.78	-25.22	Pass
		2462	/	/	1	4.78	-25.22	Pass
802.11n (HT40)	SISO	2422	/	/	1	1.07	-28.93	Pass
		2437	/	/	1	1.07	-28.93	Pass
		2452	/	/	1	1.07	-28.93	Pass
802.11ax (HE20)	SISO	2412	SU	/	1	4.80	-25.20	Pass
		2437	SU	/	1	4.80	-25.20	Pass
		2462	SU	/	1	4.80	-25.20	Pass
802.11ax (HE40)	SISO	2422	SU	/	1	1.12	-28.88	Pass
		2437	SU	/	1	1.12	-28.88	Pass
		2452	SU	/	1	1.12	-28.88	Pass

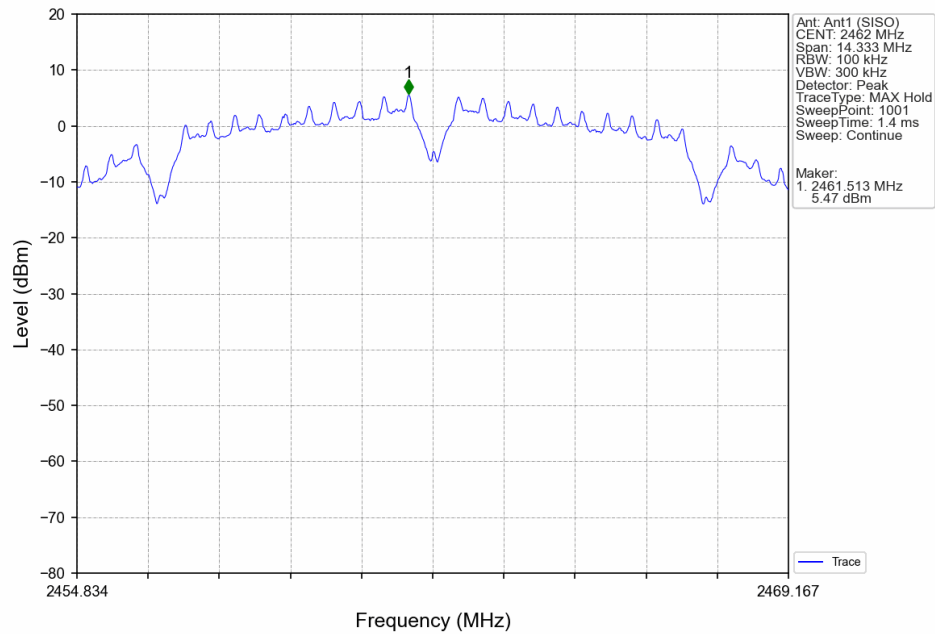
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

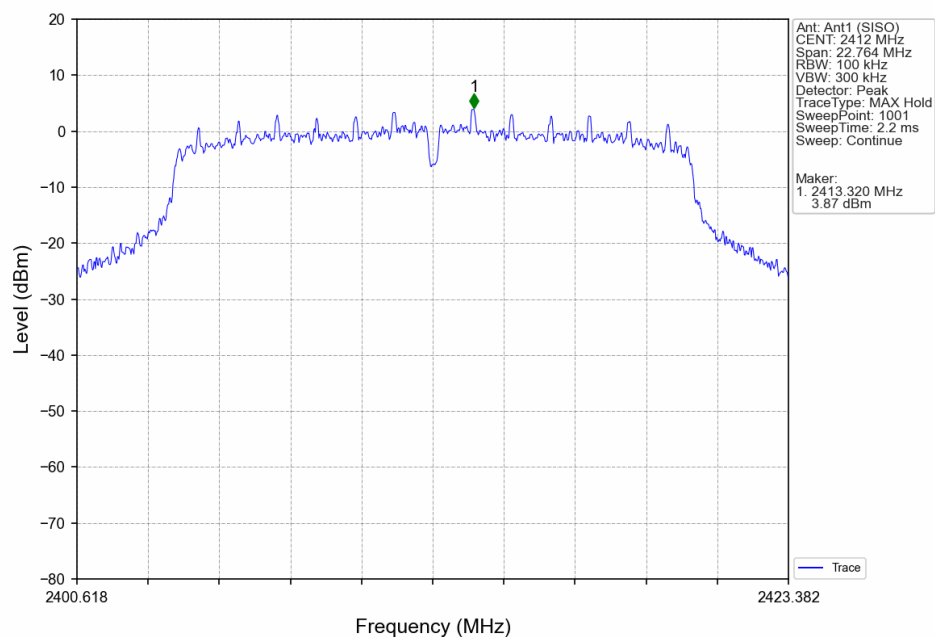
5.2.1 Ref



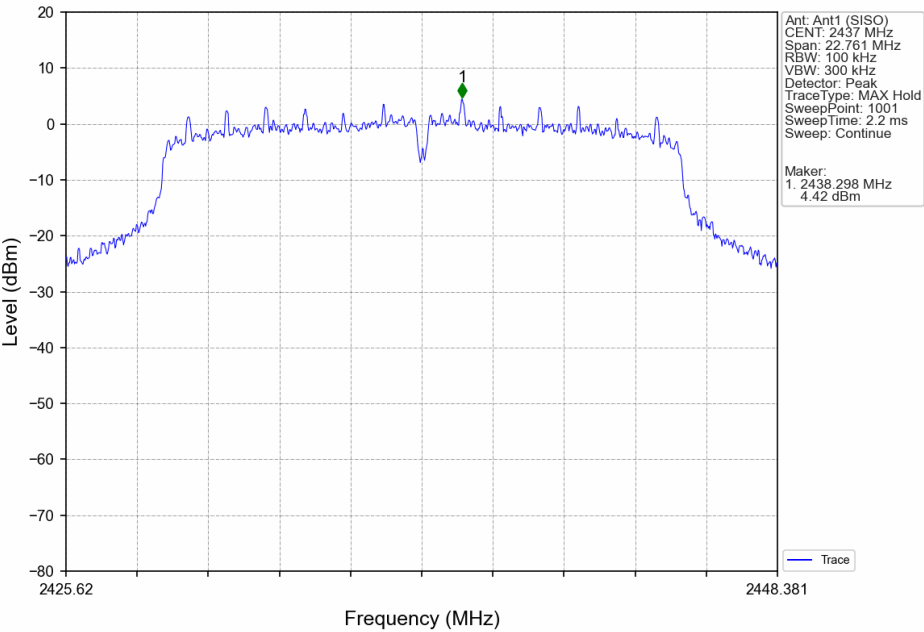
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



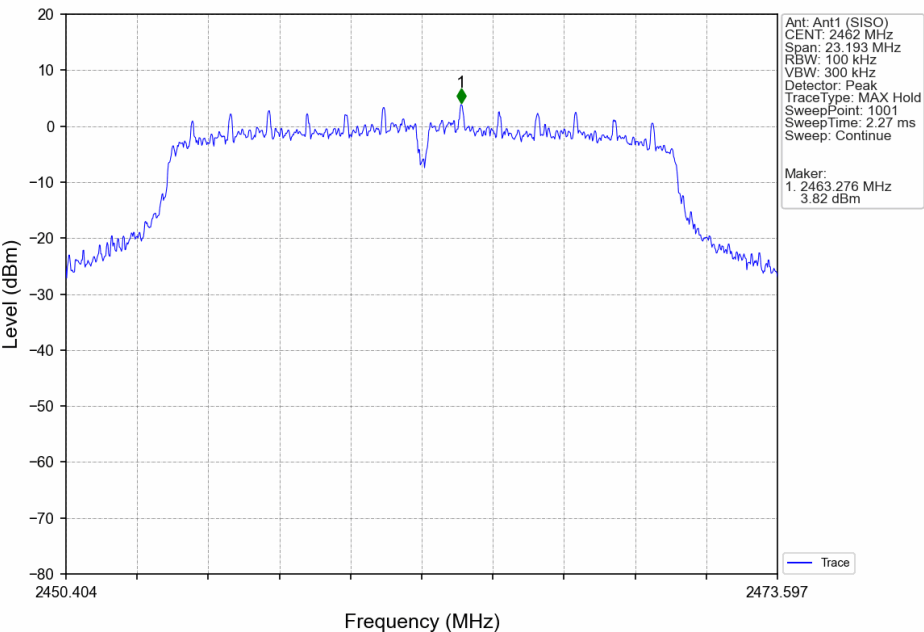
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



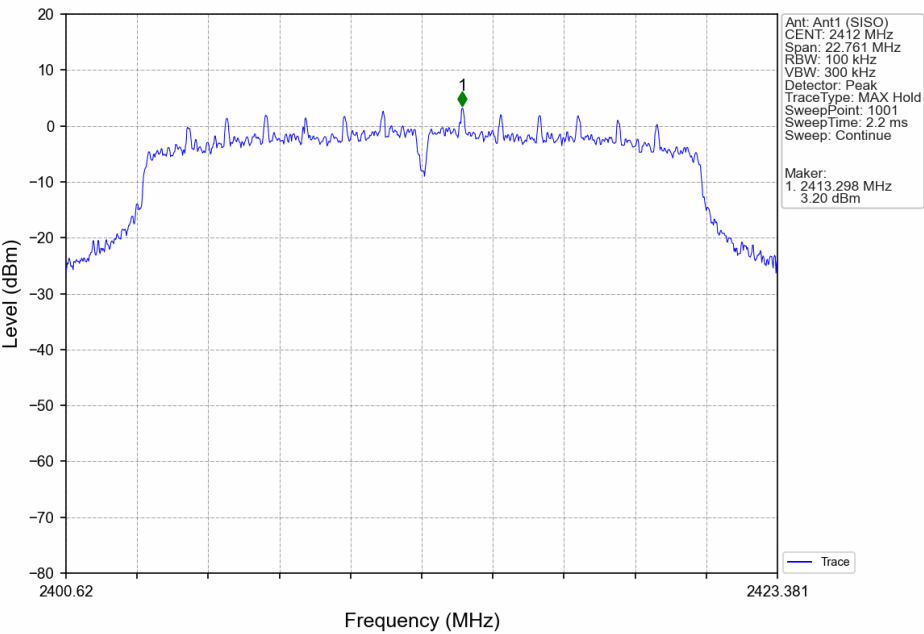
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



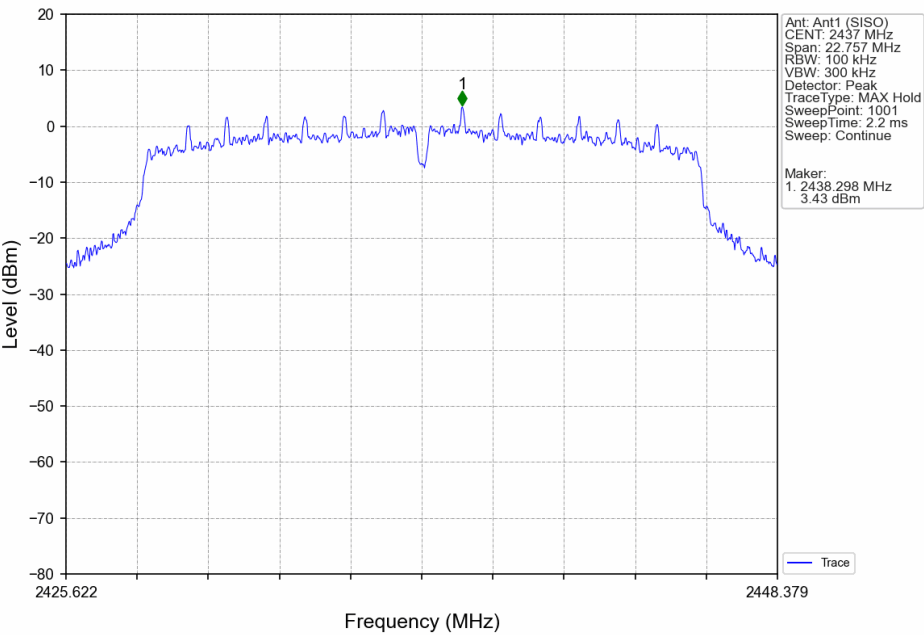
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



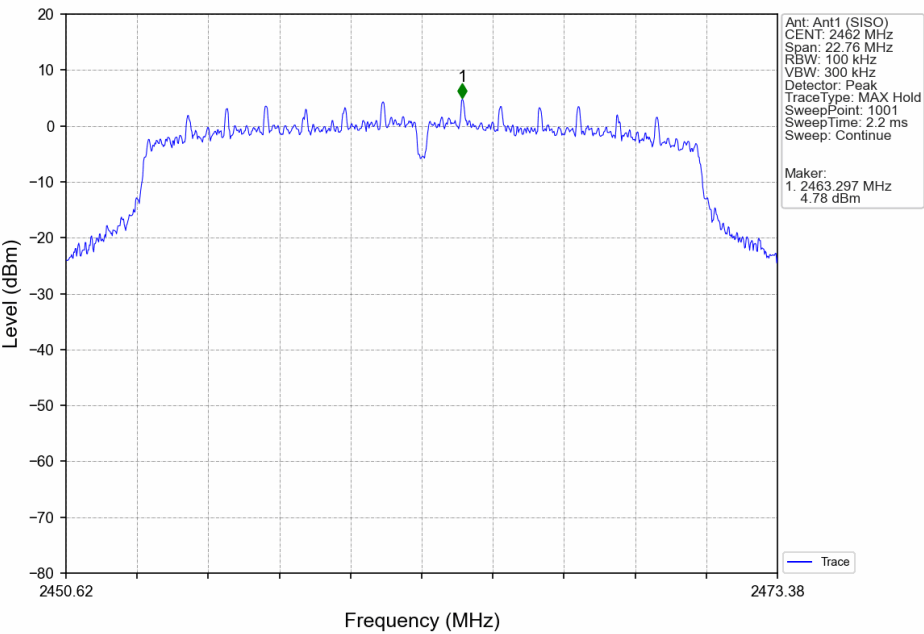
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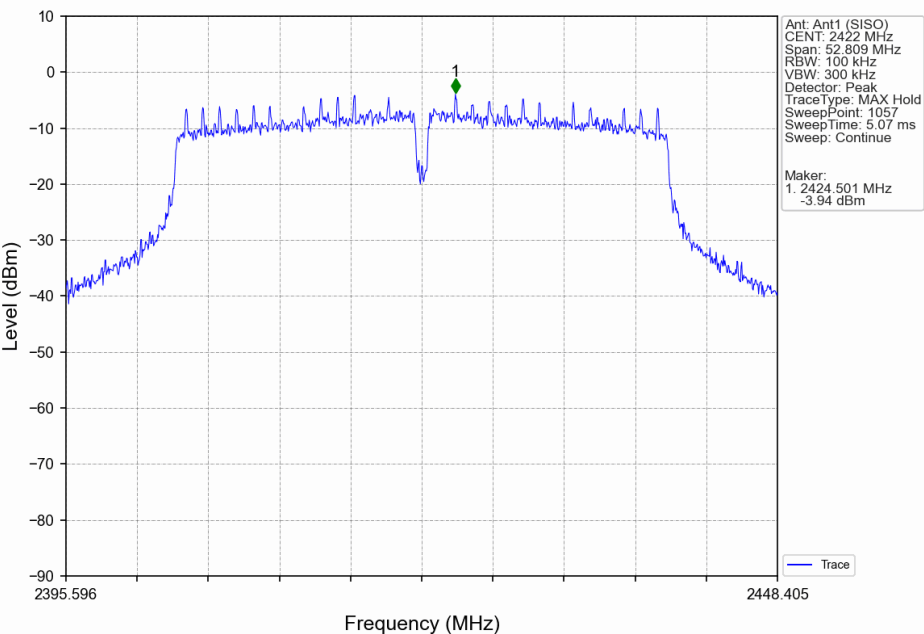
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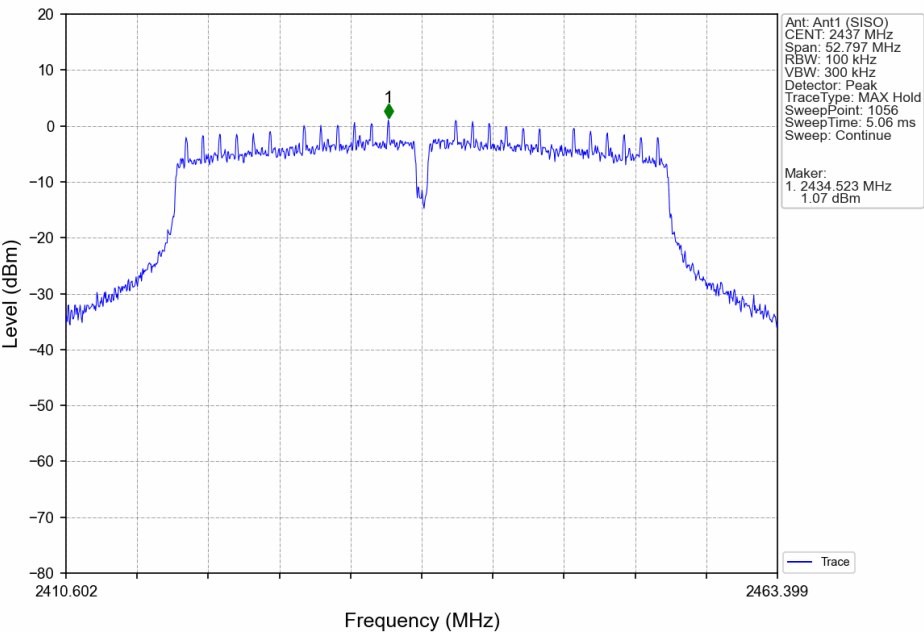
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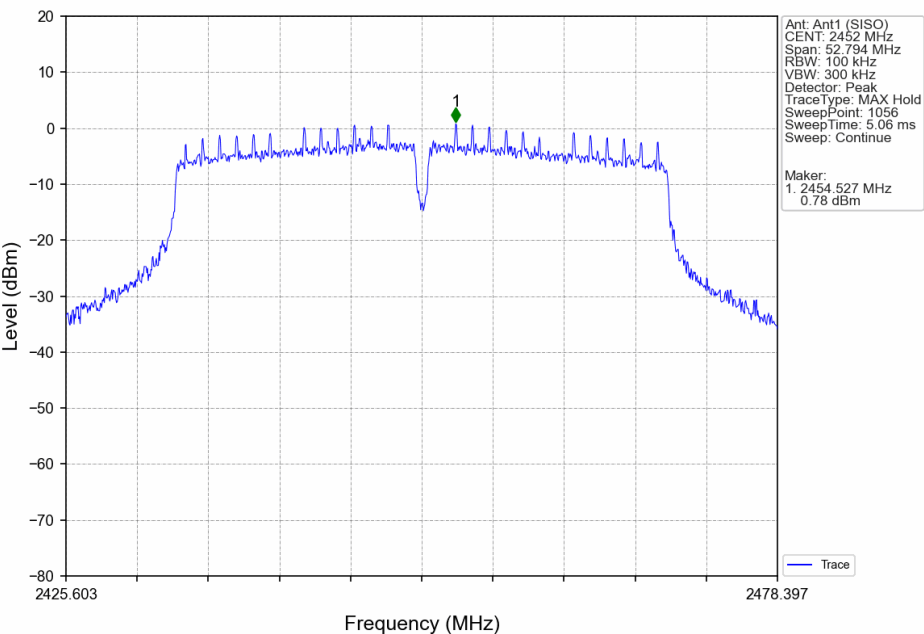
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



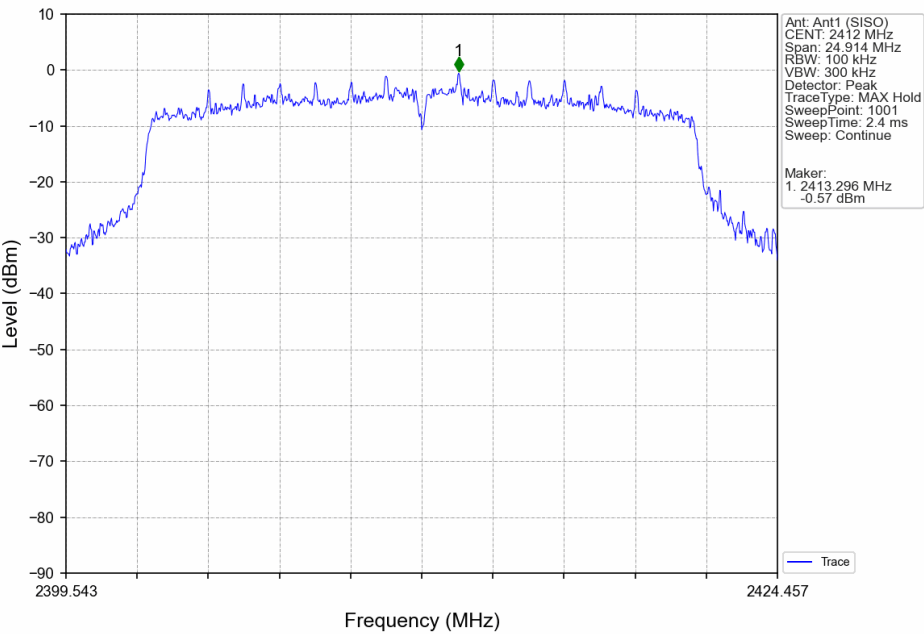
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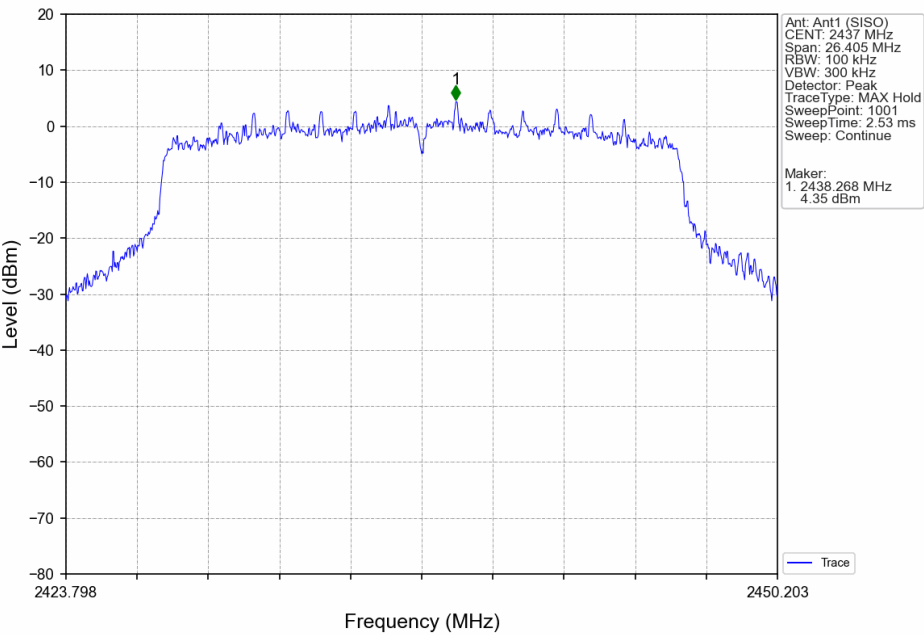
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



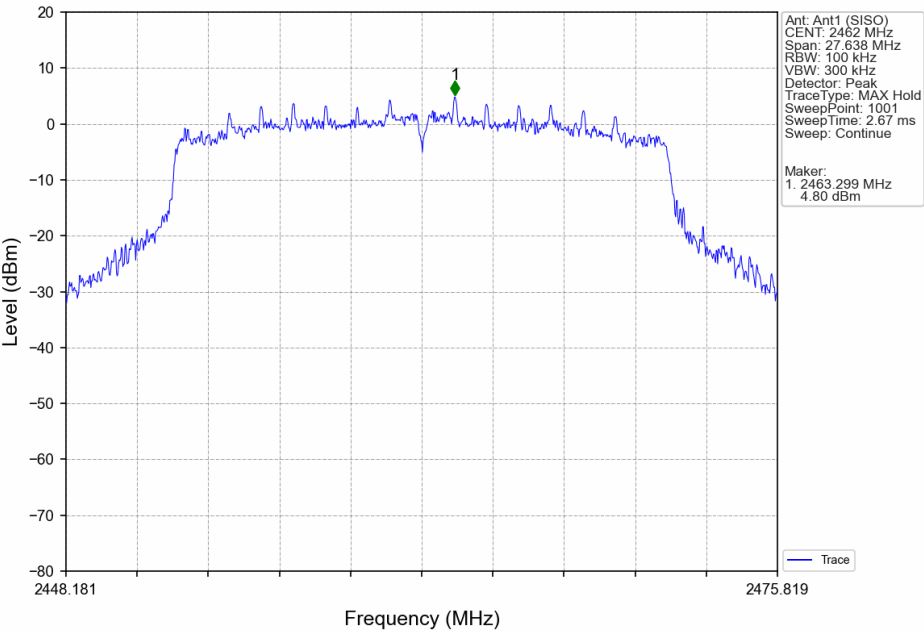
802.11ax(HE20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



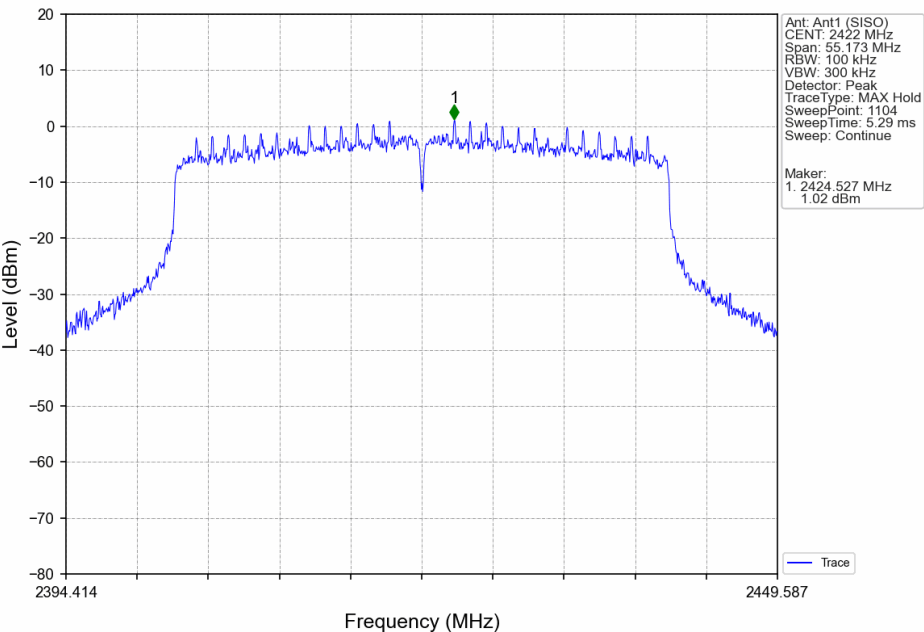
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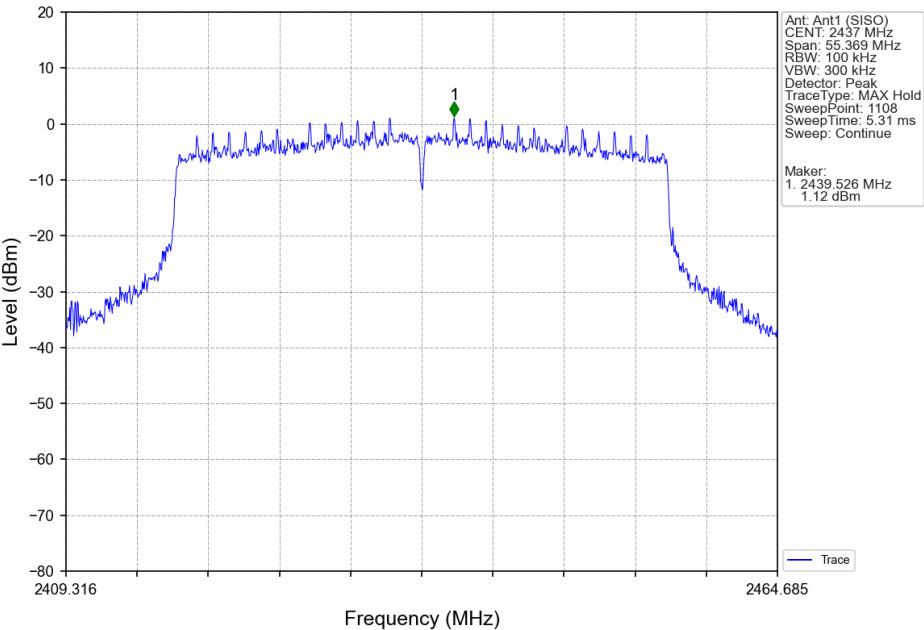
802.11ax(HE20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



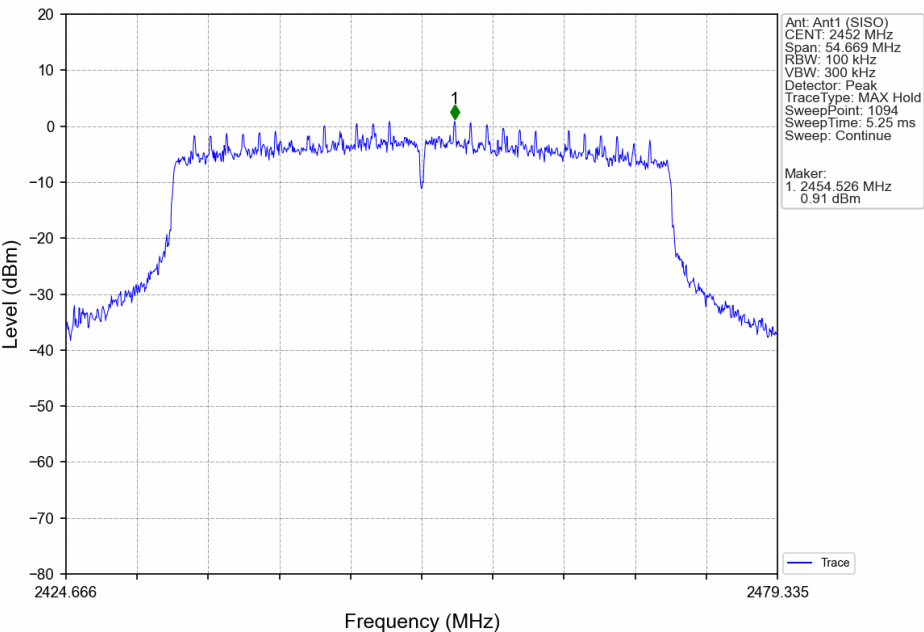
802.11ax(HE40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



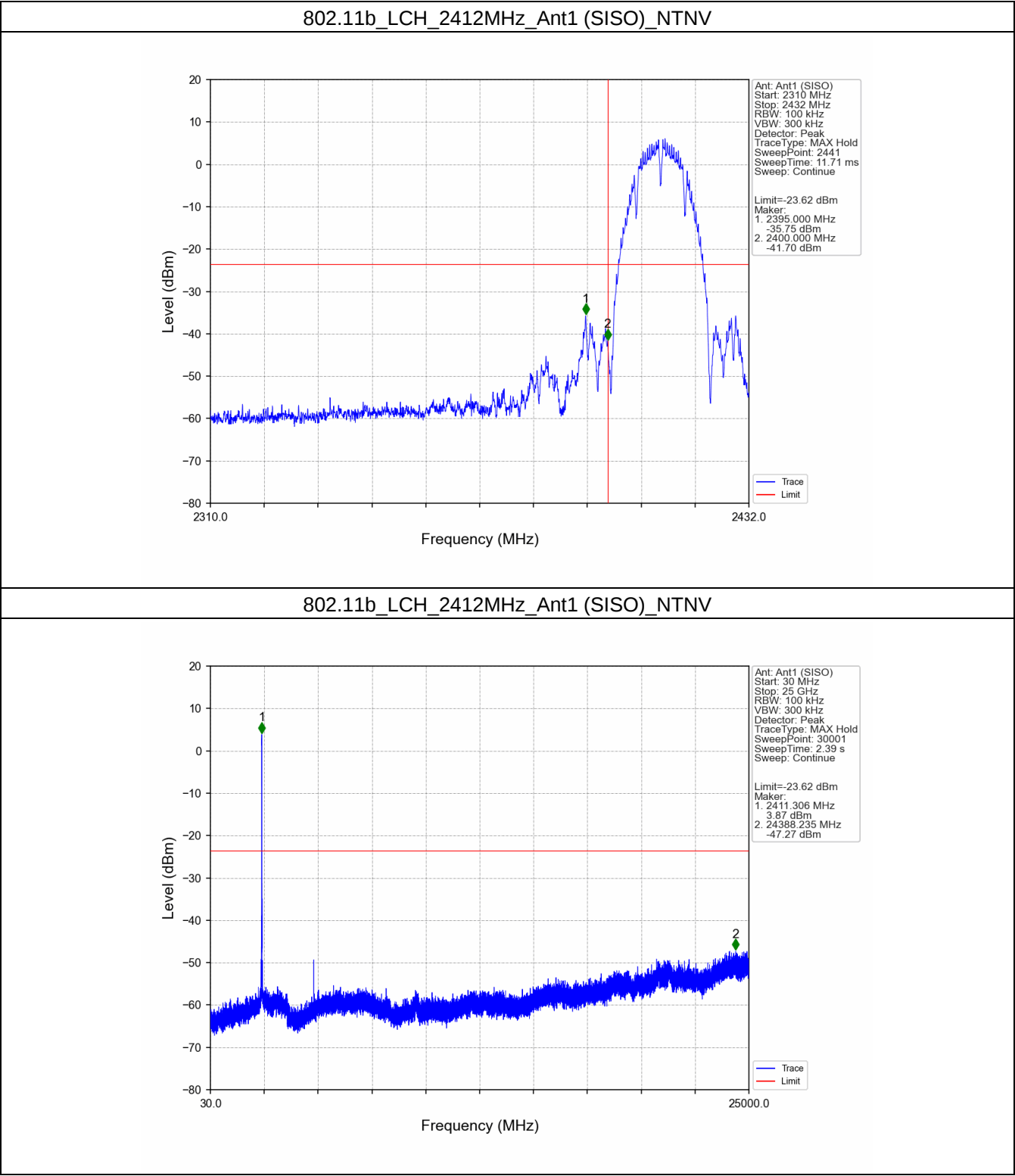
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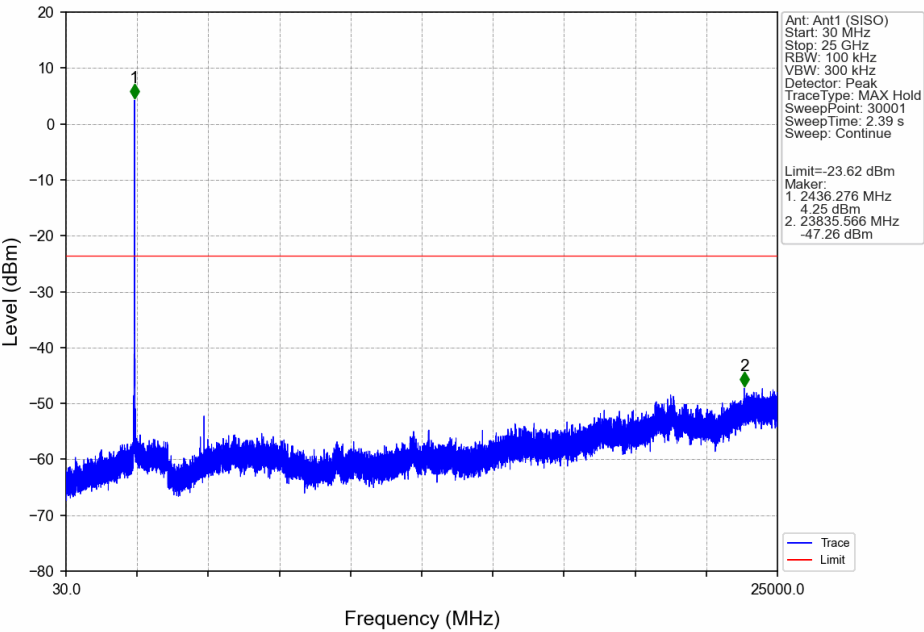
802.11ax(HE40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



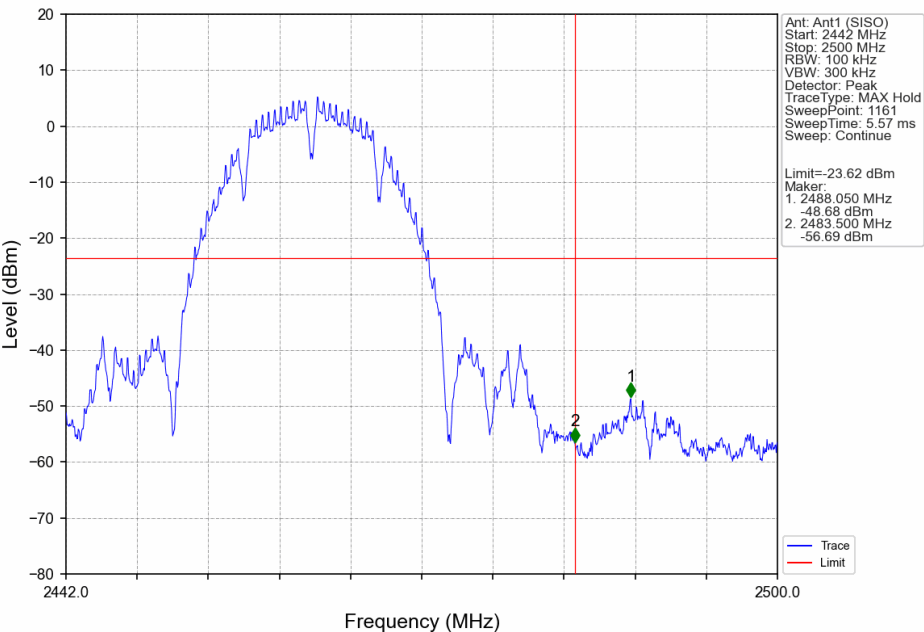
5.2.2 CSE



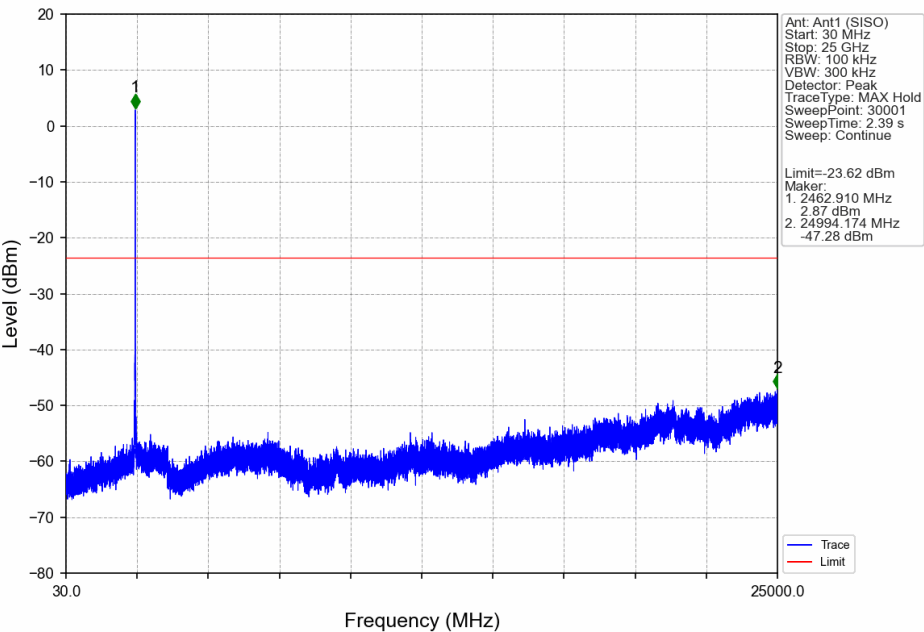
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



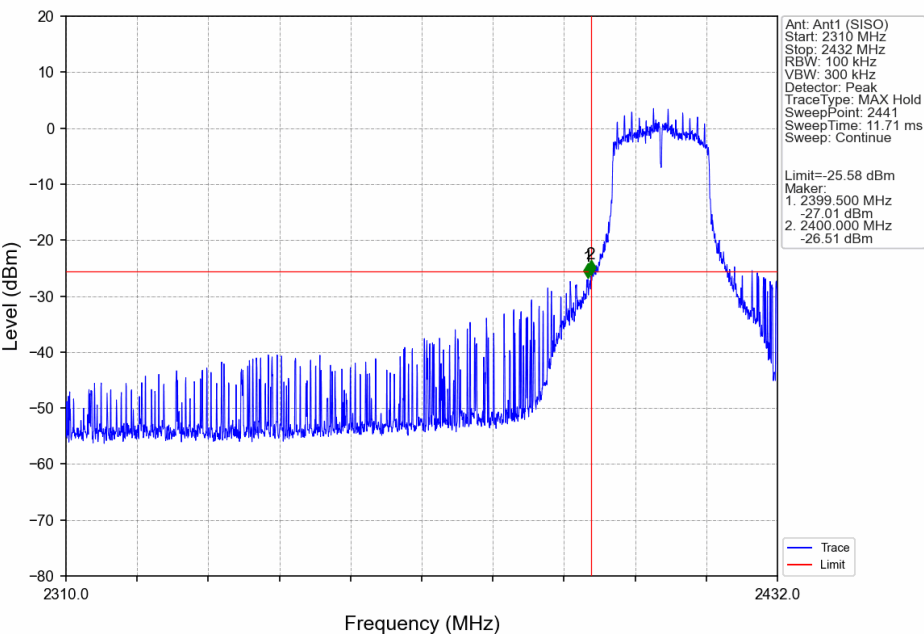
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



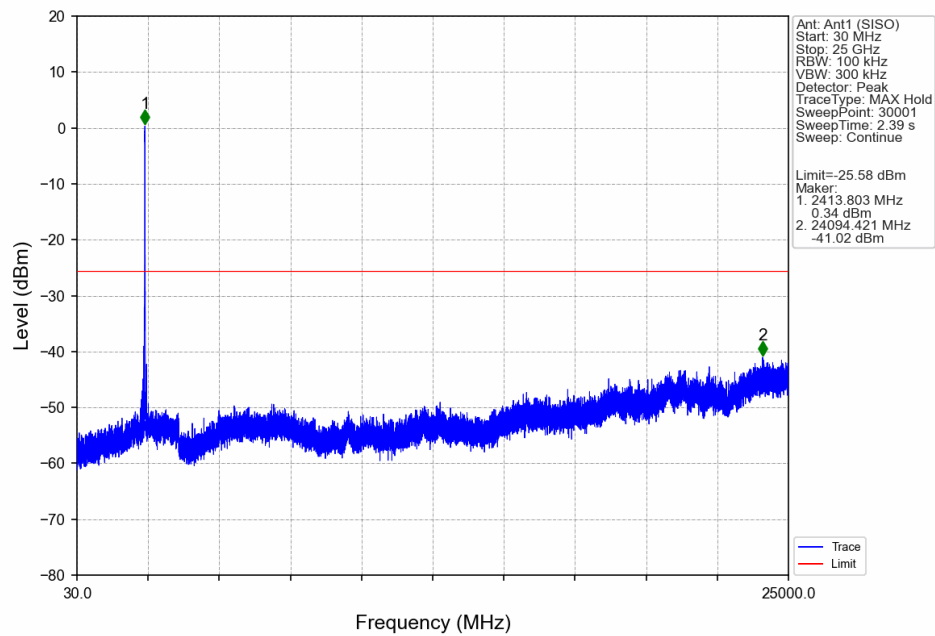
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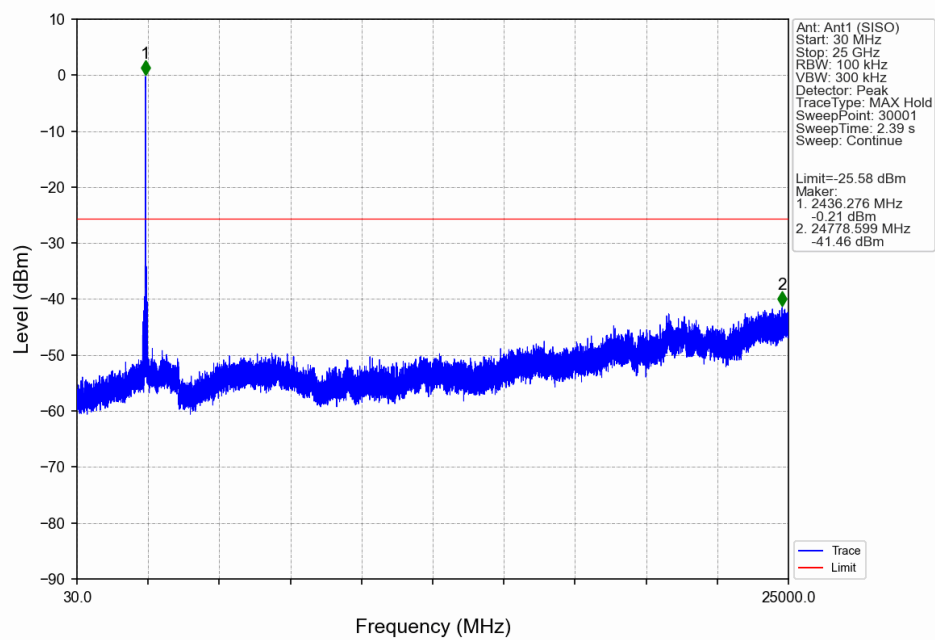
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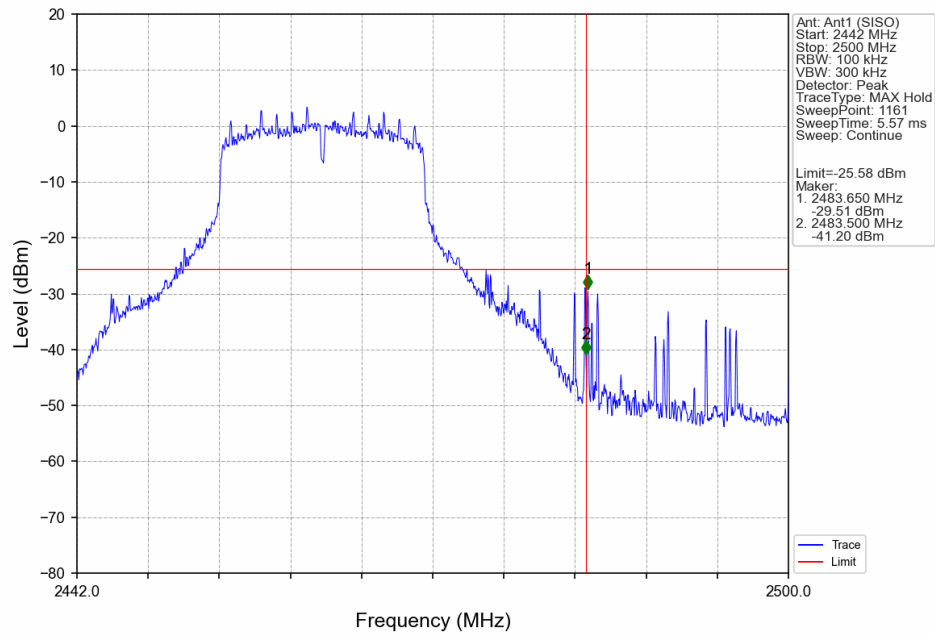
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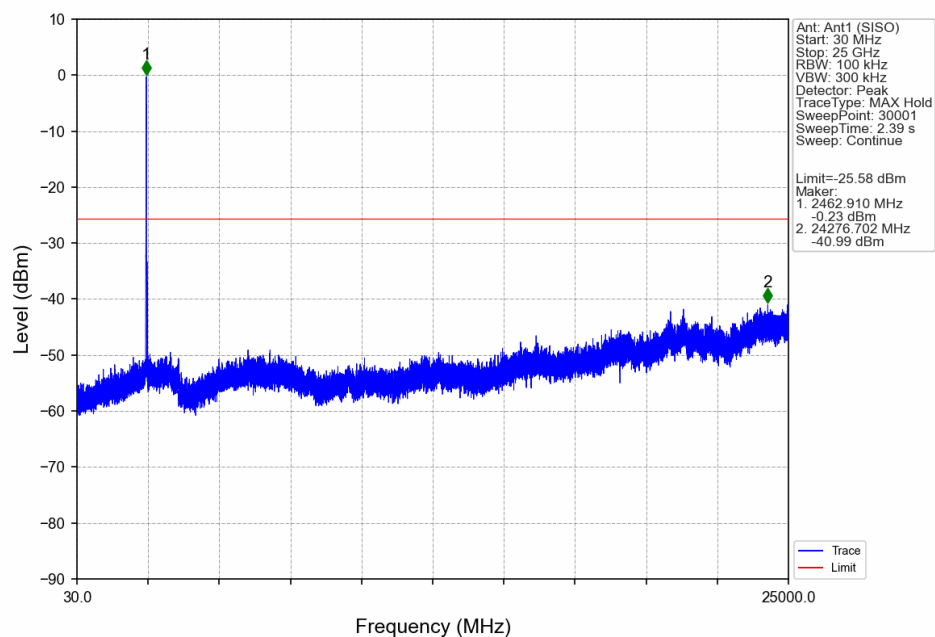
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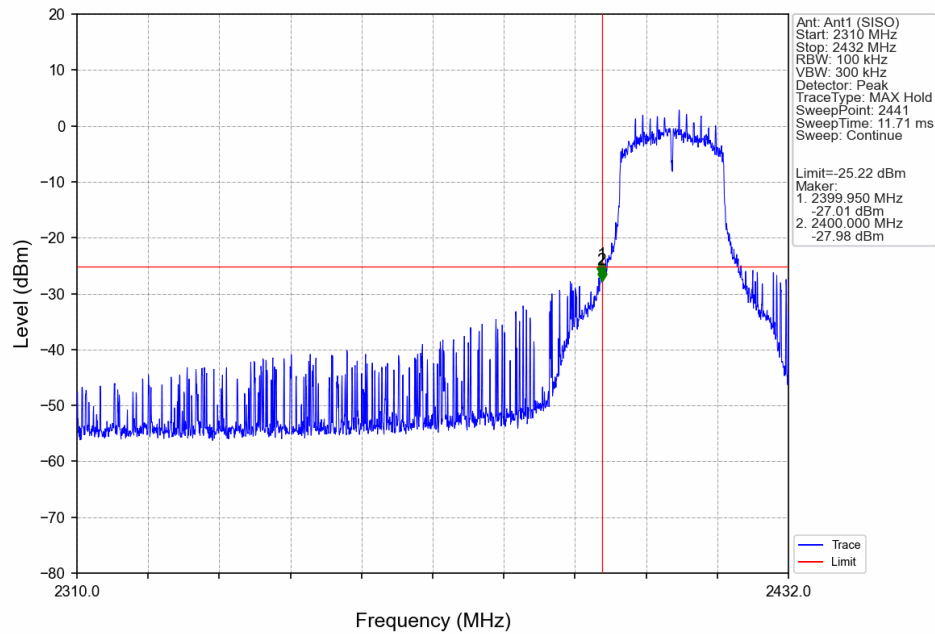
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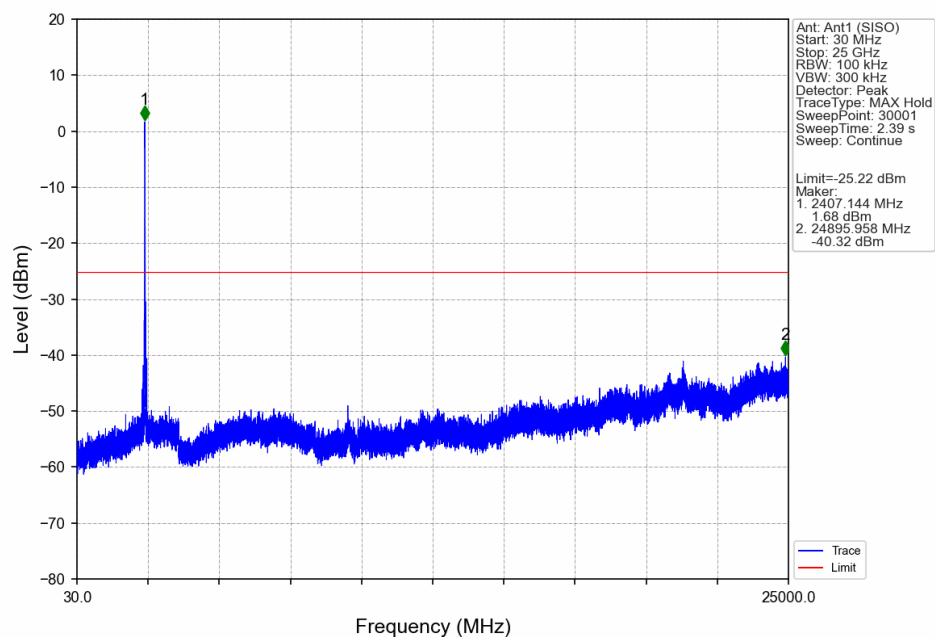
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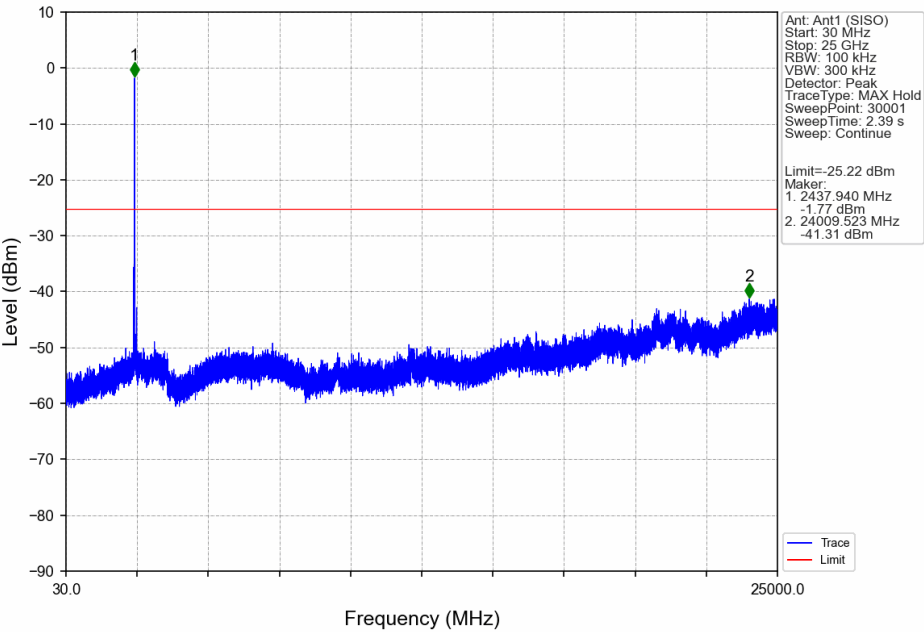
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



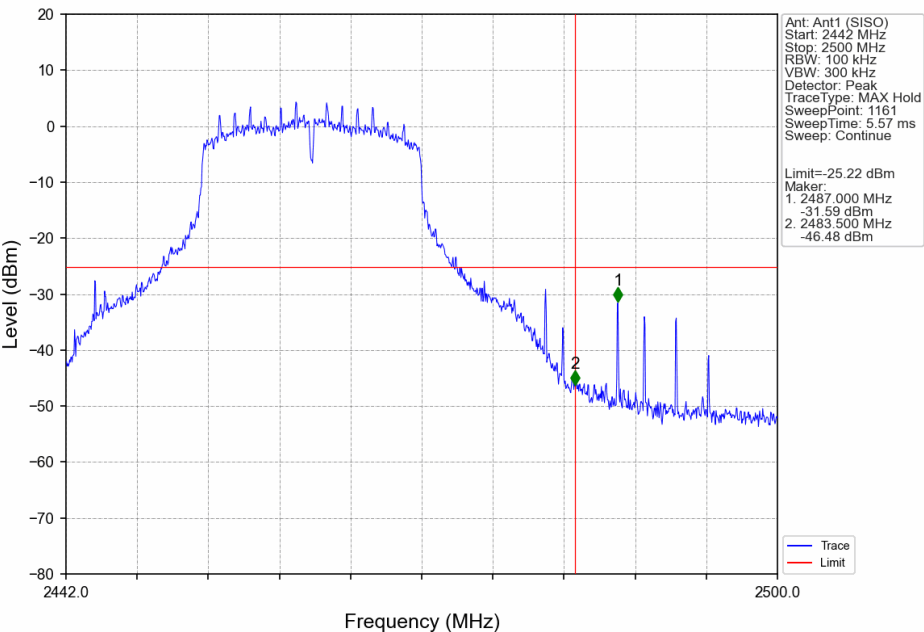
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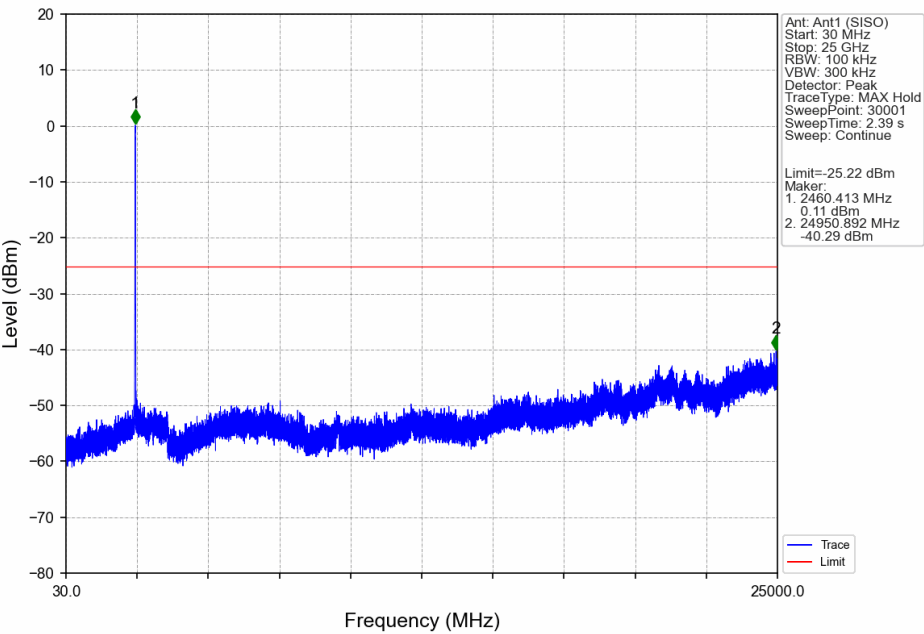
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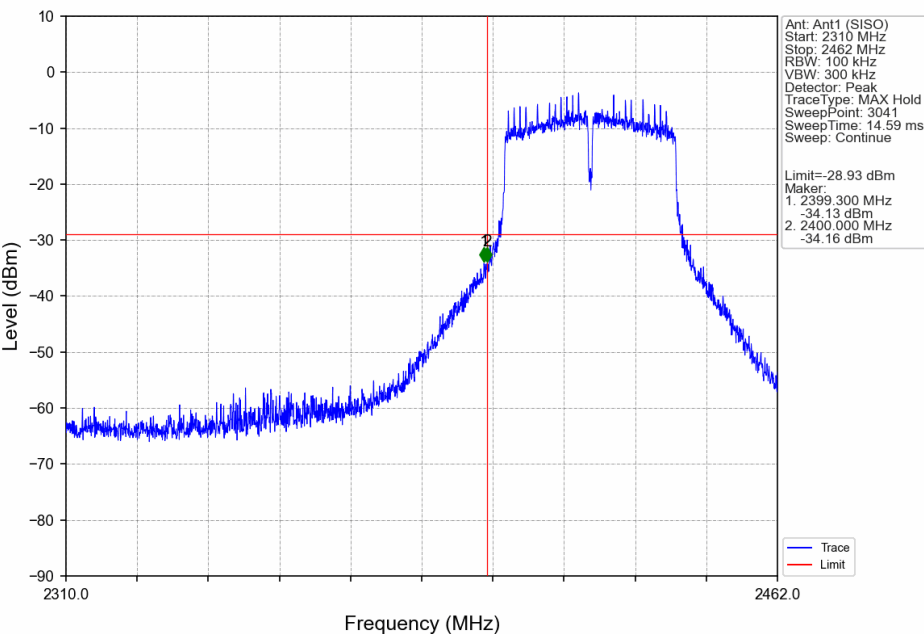
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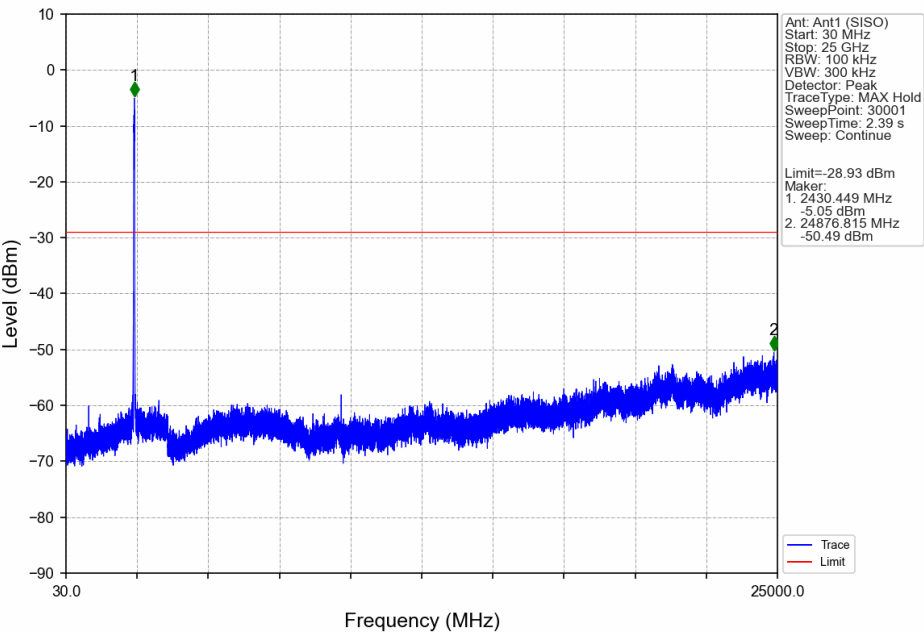
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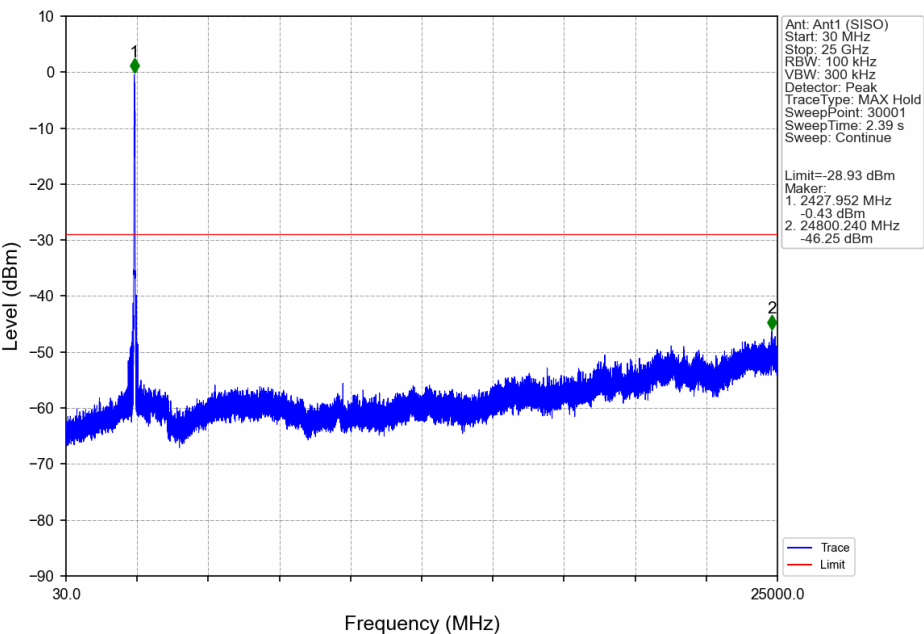
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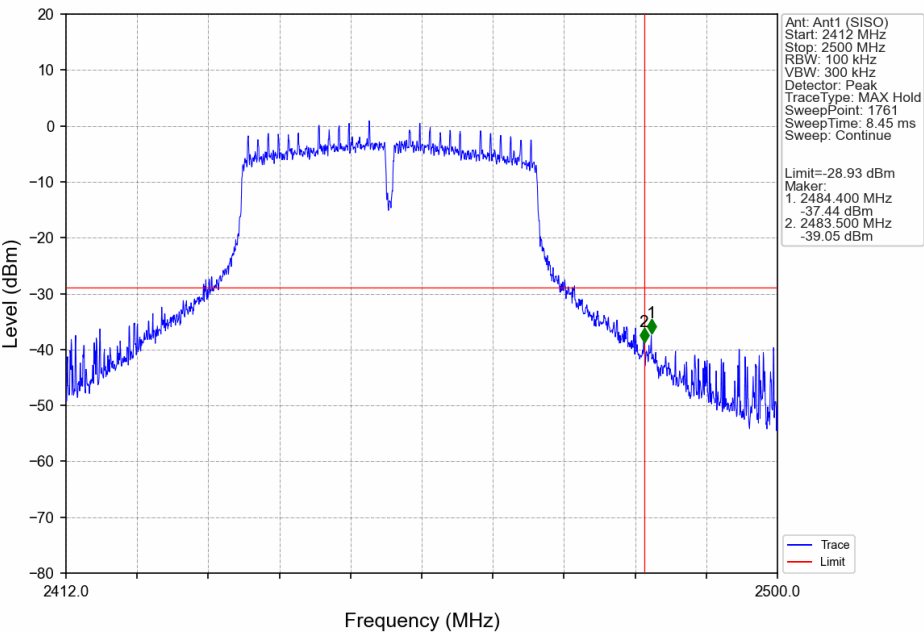
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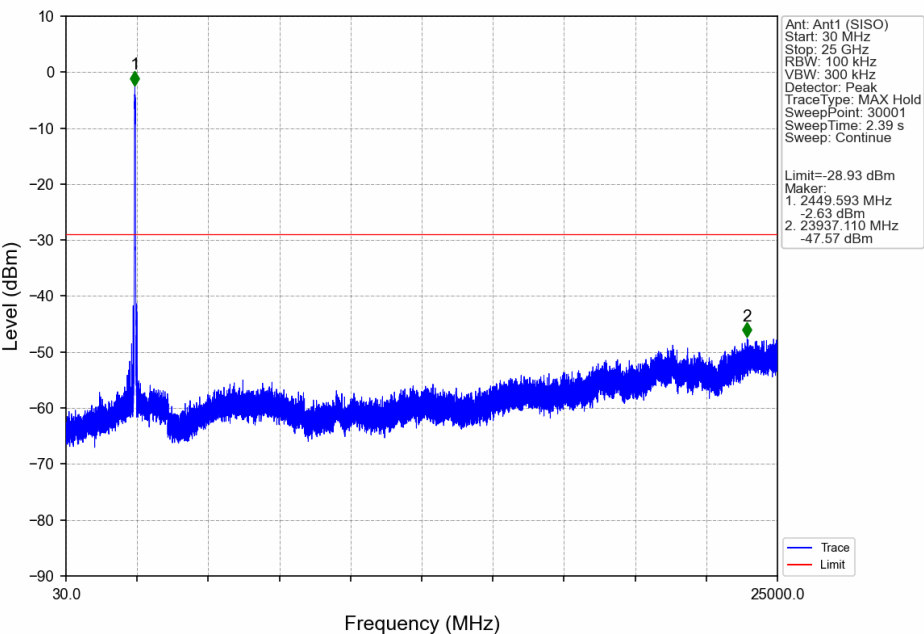
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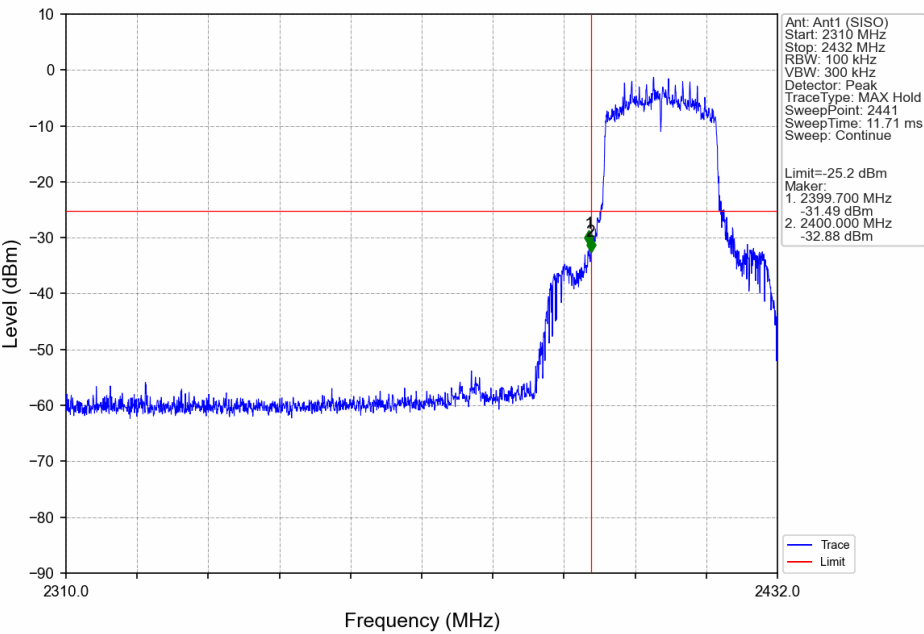
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



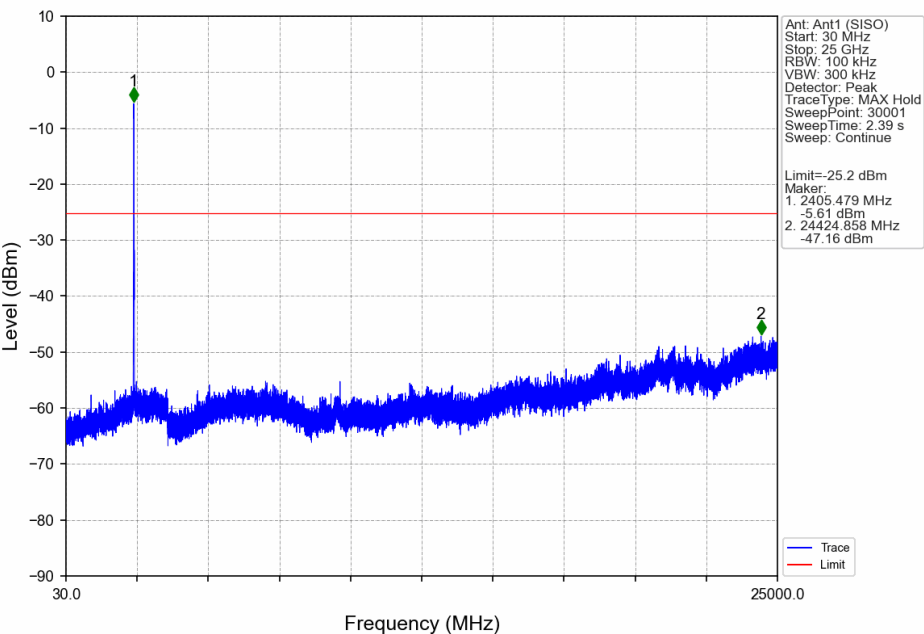
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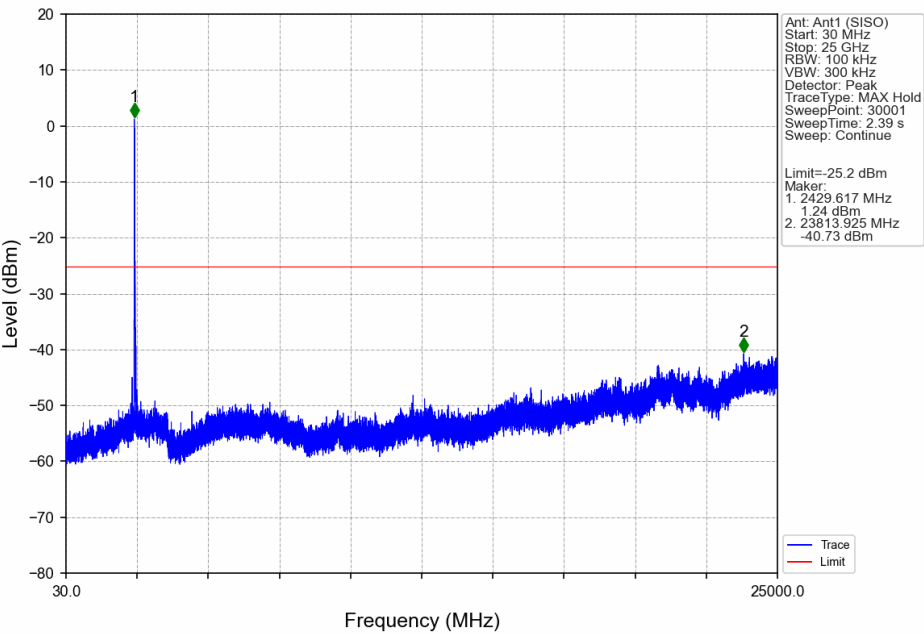
802.11ax(HE20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



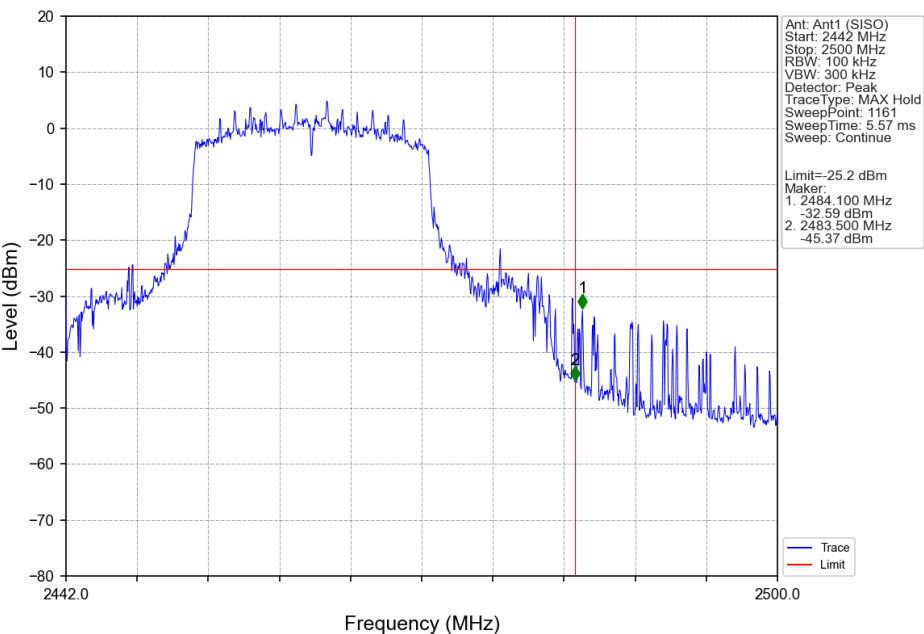
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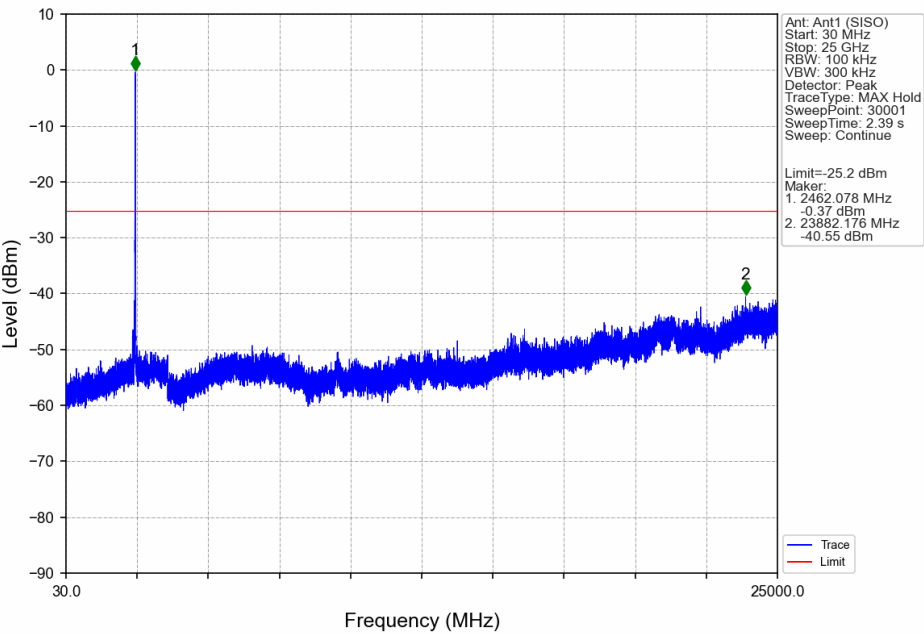
802.11ax(HE20)_MCH_2437MHz_SU / _Ant1 (SISO)_NTNV



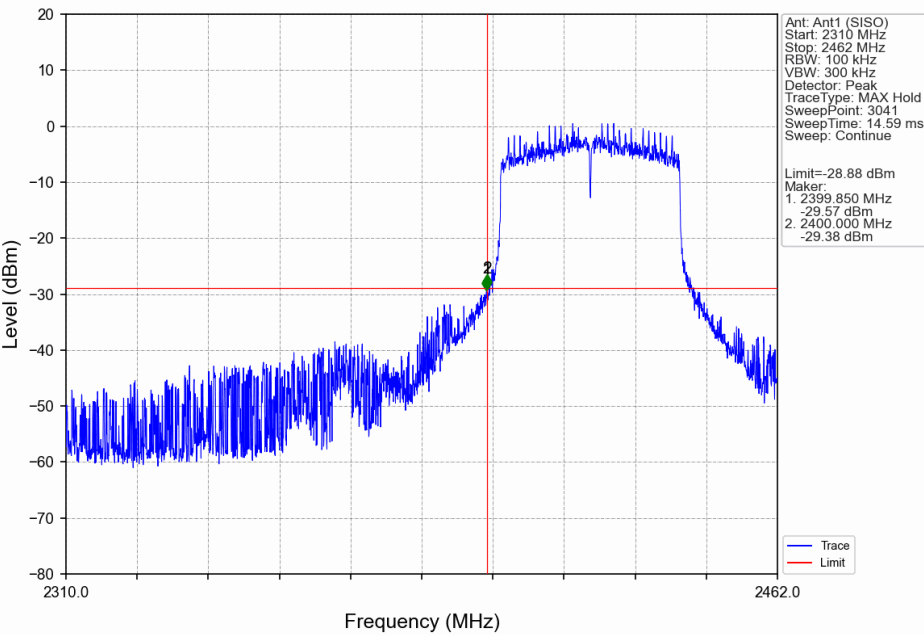
802.11ax(HE20)_HCH_2462MHz_SU / _Ant1 (SISO)_NTNV



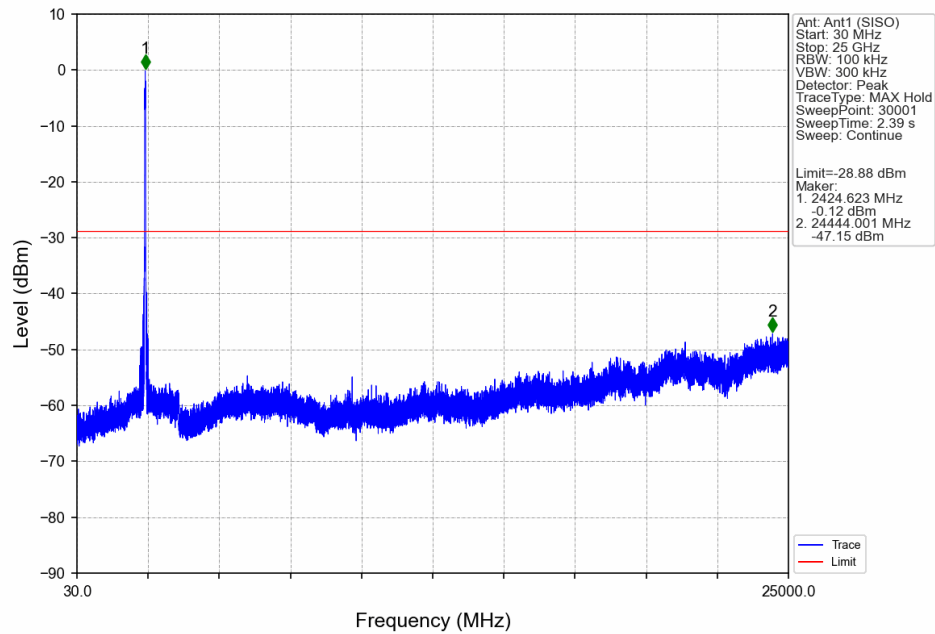
802.11ax(HE20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



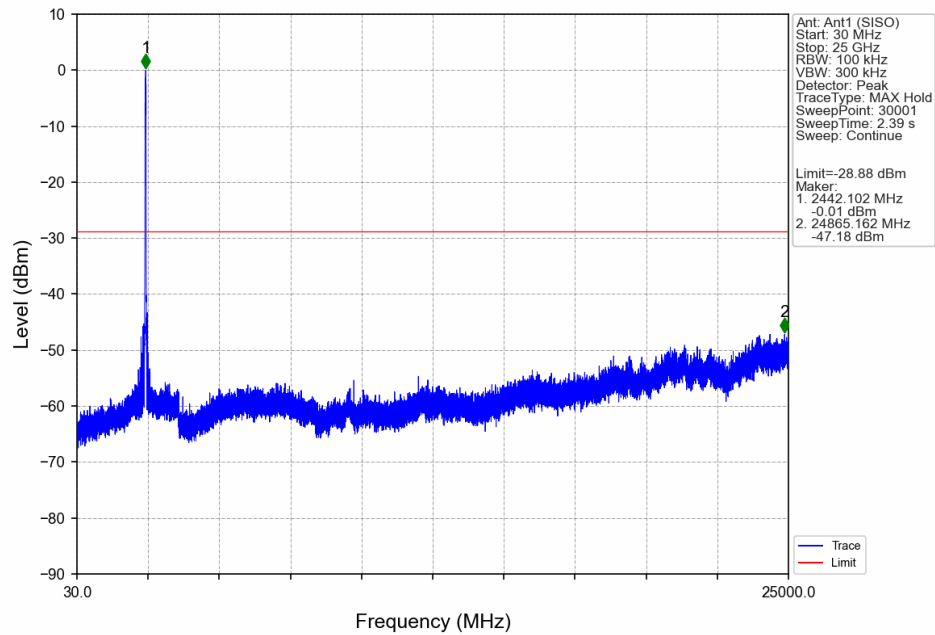
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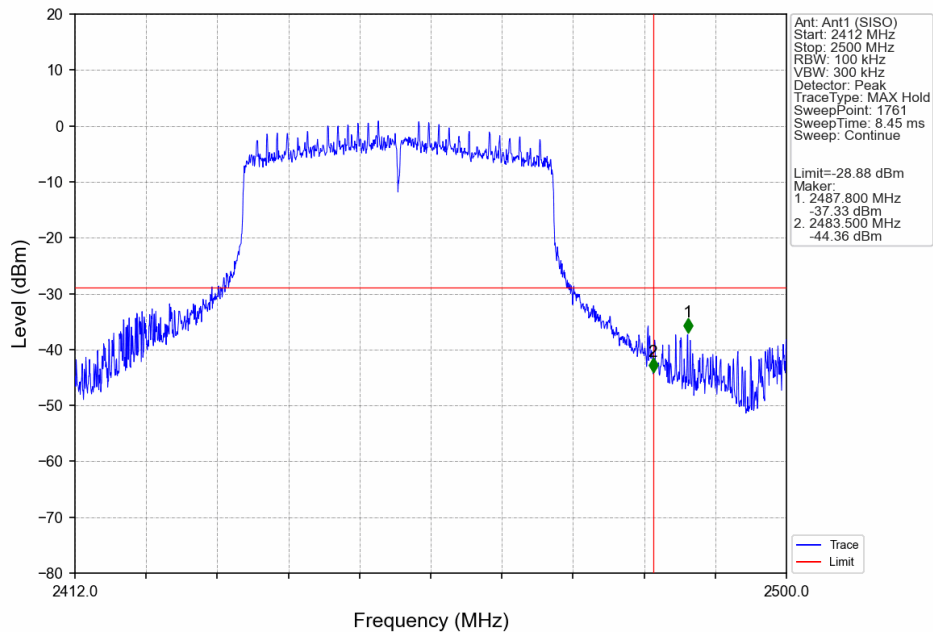
802.11ax(HE40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HE40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HE40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HE40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV

