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Annex for 2.4G Wi-Fi

Test Report No.:CTL2505298041-WF03

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FCC ID: 2BLP-G7A1

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

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	/	/	8.384	8.414	99.64	0.02	0.04
		2437	/	/	8.383	8.413	99.64	0.02	0.04
		2462	/	/	8.383	8.413	99.64	0.02	0.04
802.11g	SISO	2412	/	/	1.392	1.428	97.48	0.11	0.03
		2437	/	/	1.392	1.427	97.55	0.11	0.03
		2462	/	/	1.392	1.427	97.55	0.11	0.03
802.11n (HT20)	SISO	2412	/	/	1.302	1.335	97.53	0.11	0.00
		2437	/	/	1.300	1.335	97.38	0.12	0.03
		2462	/	/	1.300	1.335	97.38	0.12	0.03
802.11n (HT40)	SISO	2422	/	/	0.649	0.684	94.88	0.23	0.07
		2437	/	/	0.649	0.684	94.88	0.23	0.07
		2452	/	/	0.649	0.683	95.02	0.22	0.03
802.11ax (HEW20)	SISO	2412	SU	/	1.014	1.050	96.57	0.15	0.07
		2437	SU	/	1.014	1.049	96.66	0.15	0.03
		2462	SU	/	1.014	1.049	96.66	0.15	0.03
802.11ax (HEW40)	SISO	2422	SU	/	0.534	0.569	93.85	0.28	0.04
		2437	SU	/	0.534	0.569	93.85	0.28	0.07
		2452	SU	/	0.534	0.569	93.85	0.28	0.11

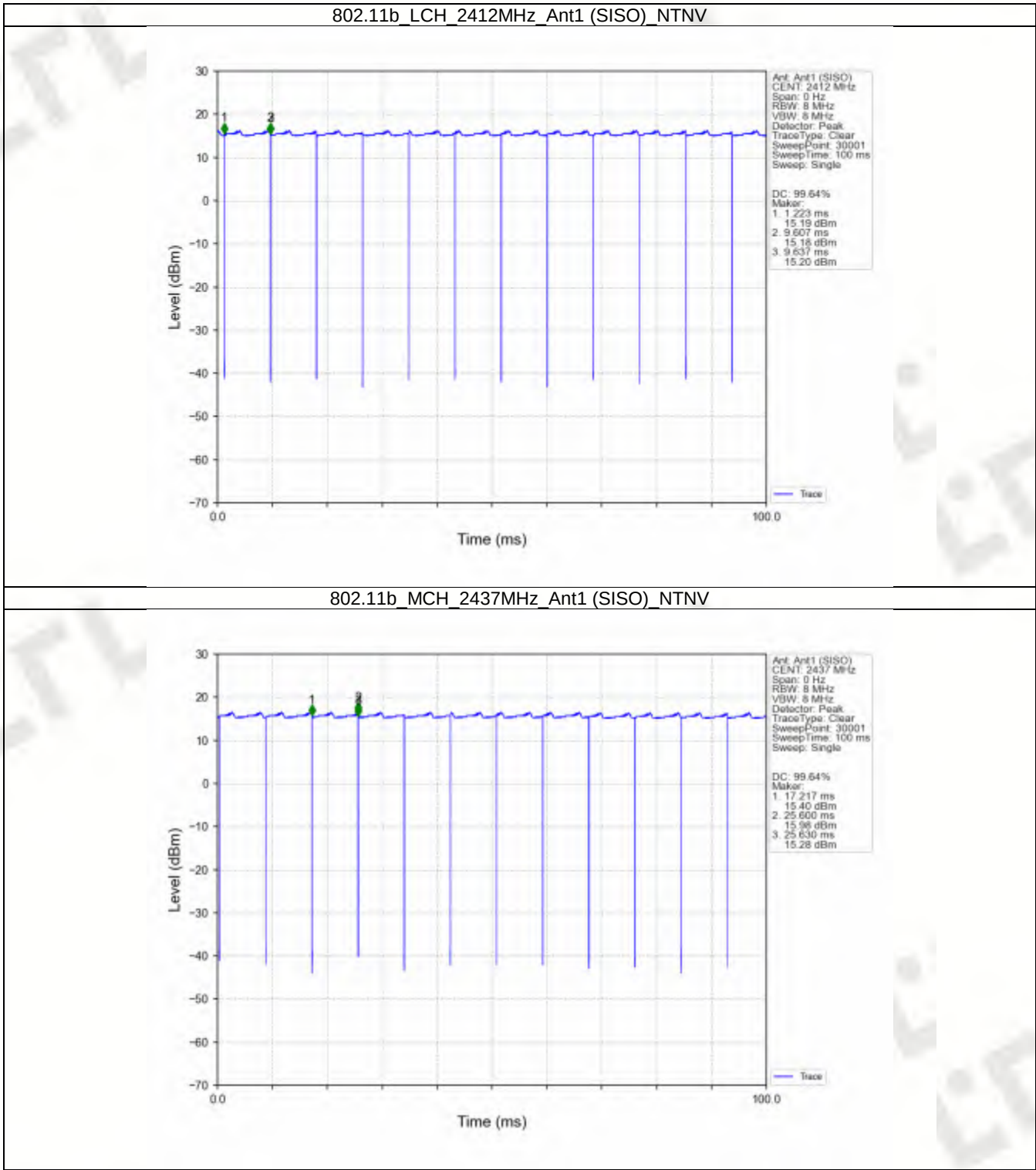
1.1.2 Ant2

Ant2									
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	/	/	8.383	8.413	99.64	0.02	0.04
		2437	/	/	8.384	8.414	99.64	0.02	0.04
		2462	/	/	8.384	8.414	99.64	0.02	0.04
802.11g	SISO	2412	/	/	1.395	2.049	68.08	1.67	0.91
		2437	/	/	1.394	1.427	97.69	0.10	0.03
		2462	/	/	1.392	1.426	97.62	0.10	0.03
802.11n (HT20)	SISO	2412	/	/	1.303	1.336	97.53	0.11	0.00
		2437	/	/	1.302	1.335	97.53	0.11	0.07
		2462	/	/	1.301	1.335	97.45	0.11	0.07
802.11n (HT40)	SISO	2422	/	/	0.649	0.683	95.02	0.22	0.03
		2437	/	/	0.648	0.683	94.88	0.23	0.04
		2452	/	/	0.649	0.683	95.02	0.22	0.07
802.11ax (HEW20)	SISO	2412	SU	/	1.014	1.050	96.57	0.15	0.07
		2437	SU	/	1.014	1.049	96.66	0.15	0.03
		2462	SU	/	1.014	1.049	96.66	0.15	0.03
802.11ax (HEW40)	SISO	2422	SU	/	0.534	0.569	93.85	0.28	0.04
		2437	SU	/	0.534	0.569	93.85	0.28	0.07
		2452	SU	/	0.534	0.569	93.85	0.28	0.07

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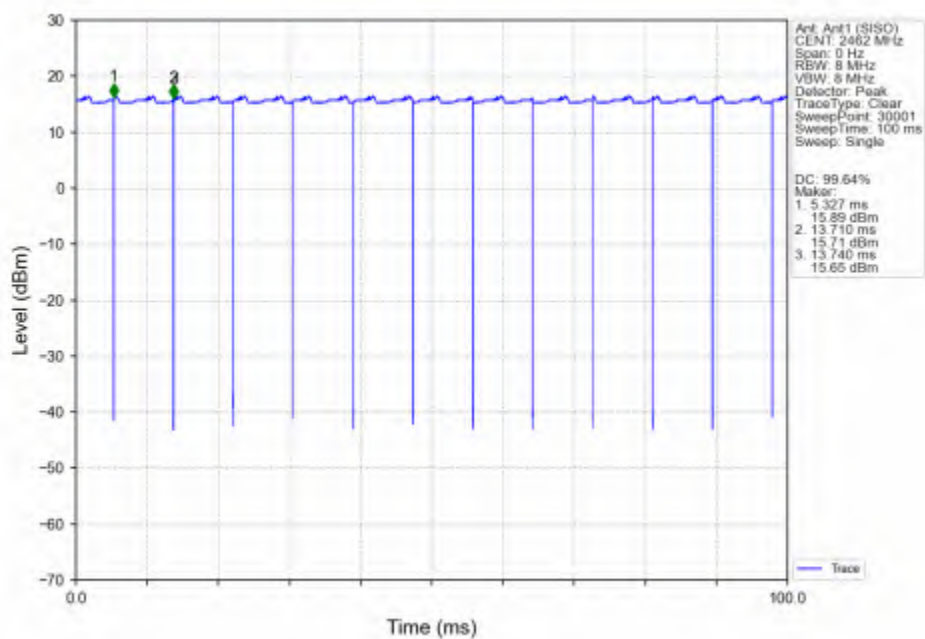
1.2 Test Graph

1.2.1 Ant1

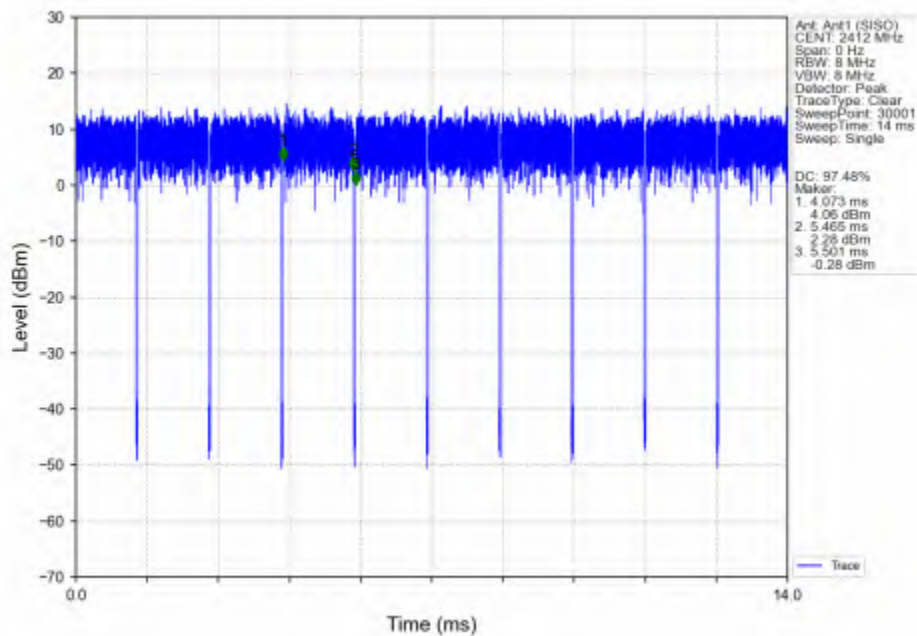


FCC ID: 2BLP-G7A1

802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

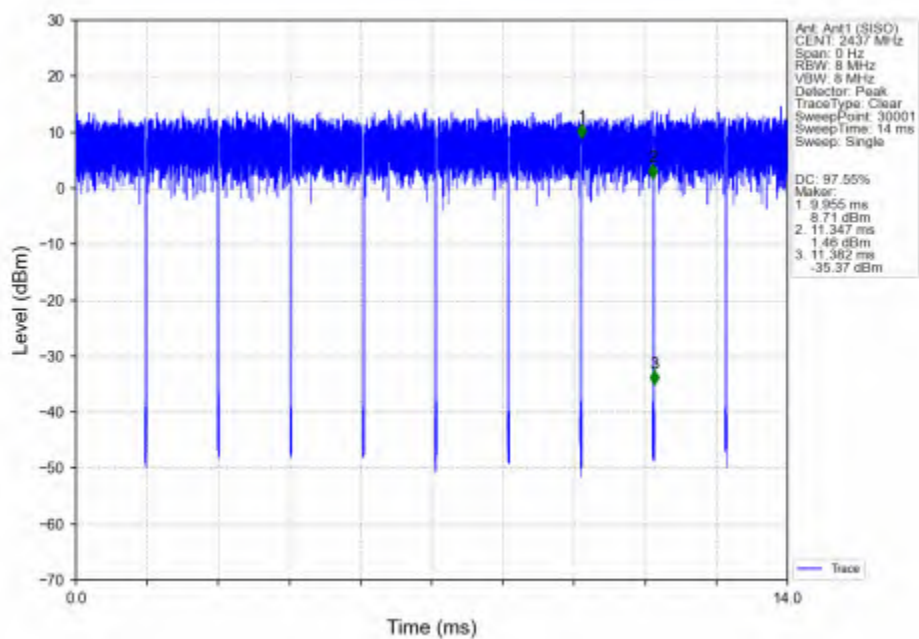


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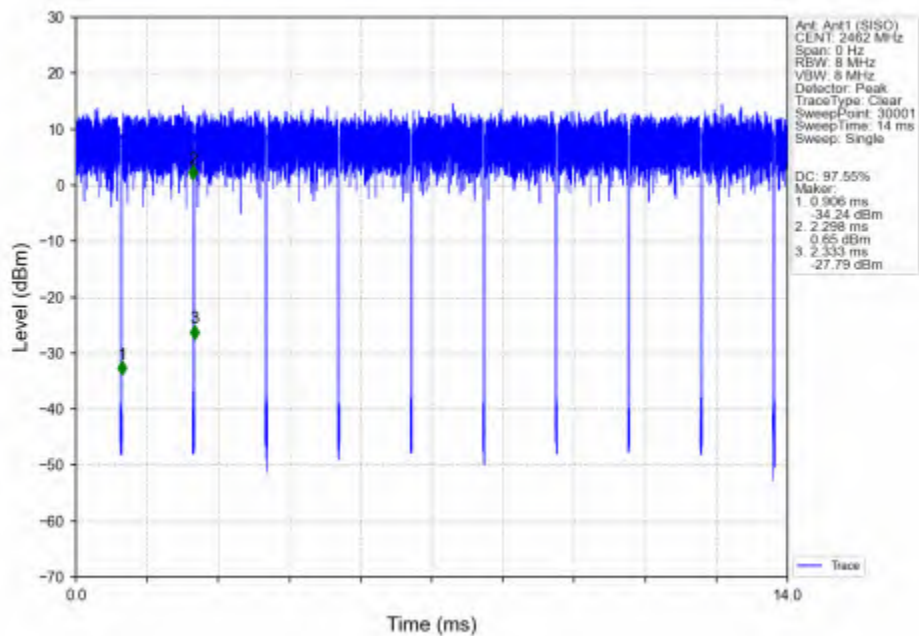


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

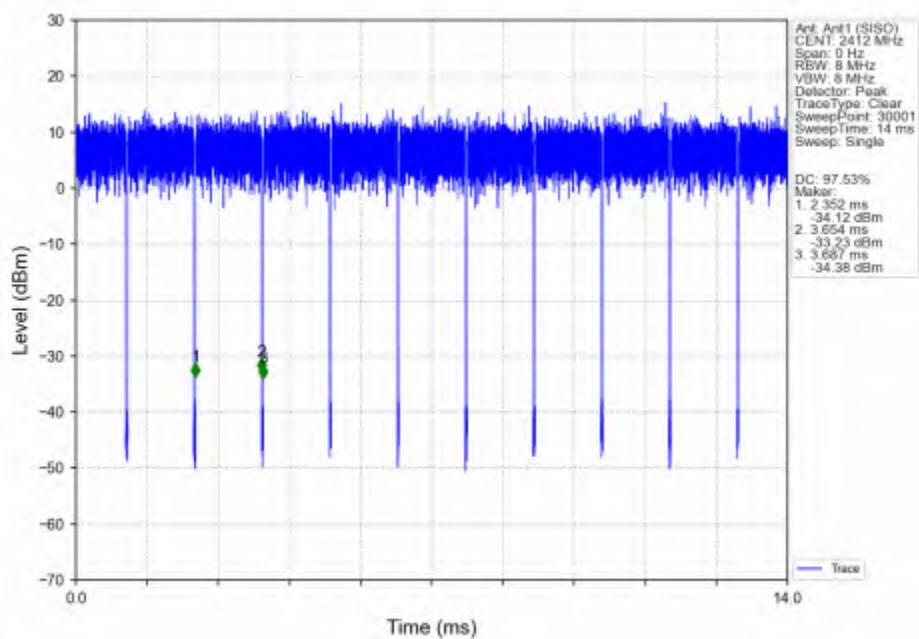


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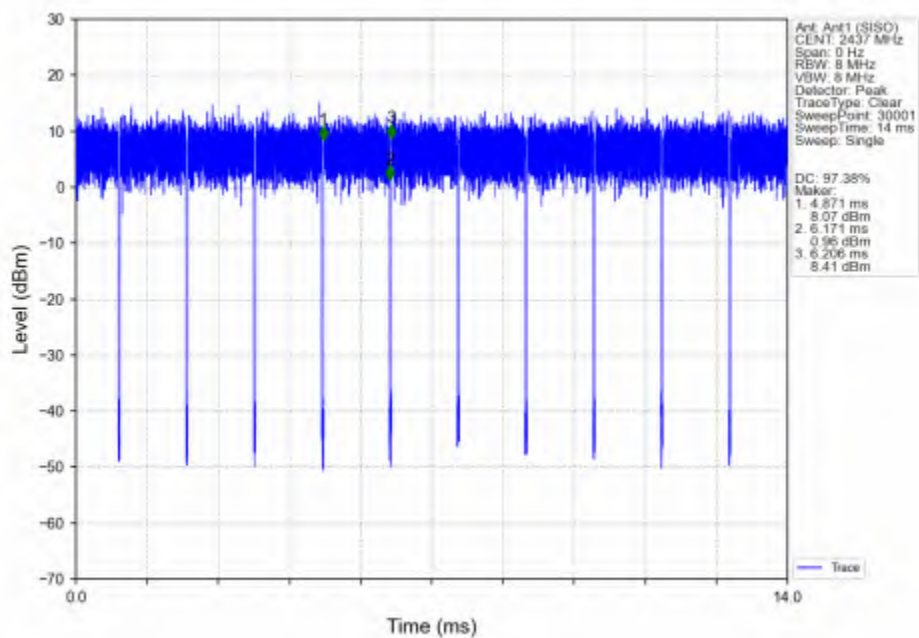


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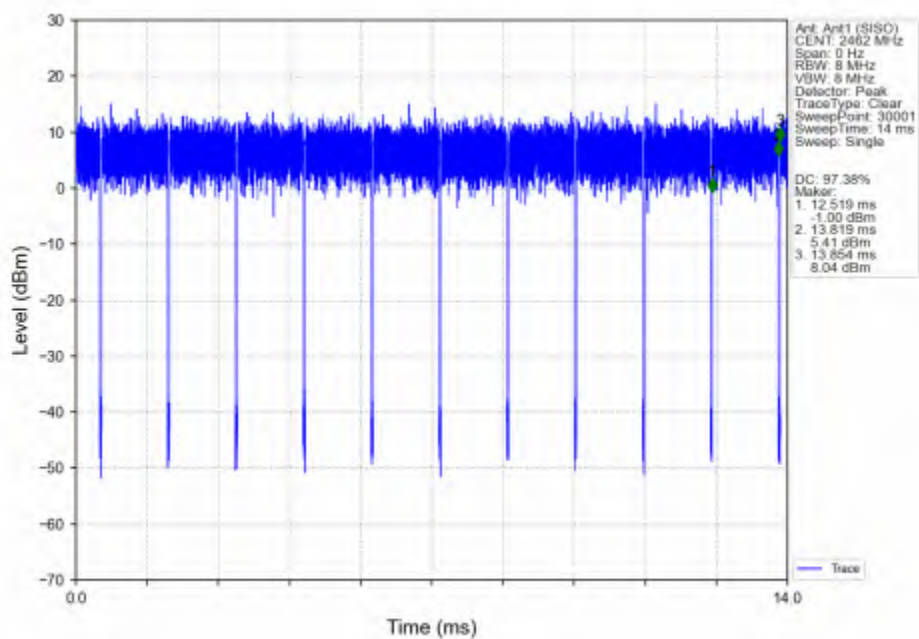


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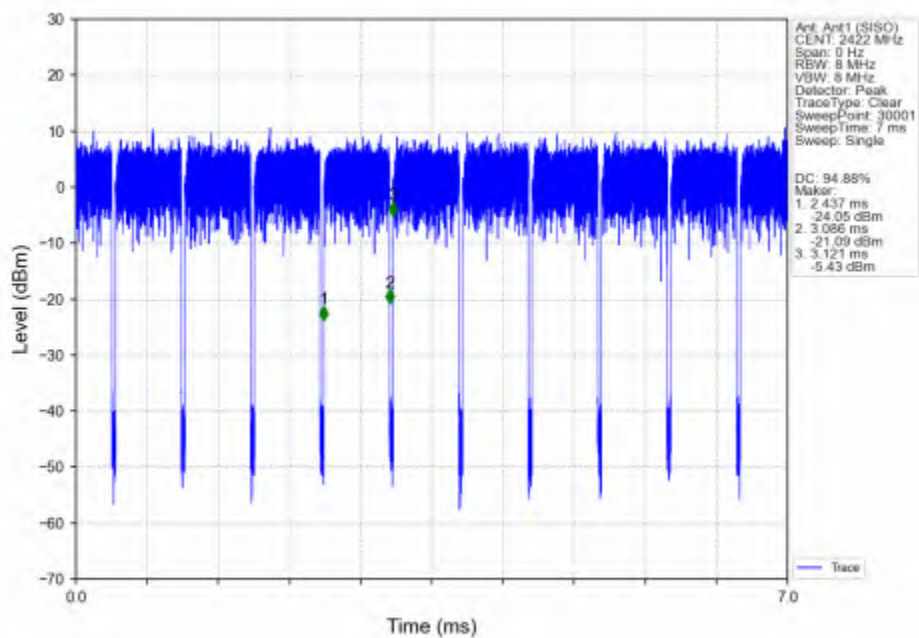


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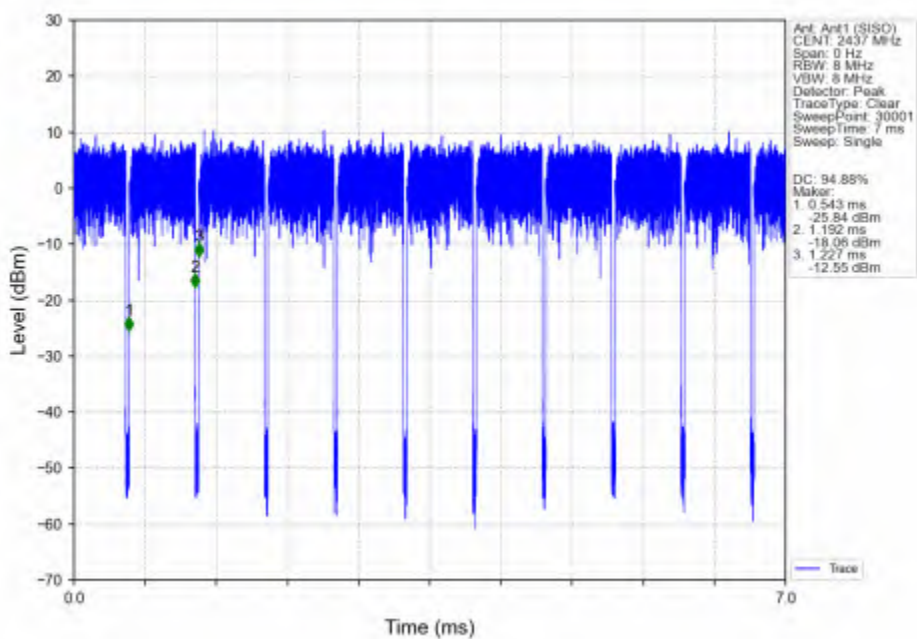


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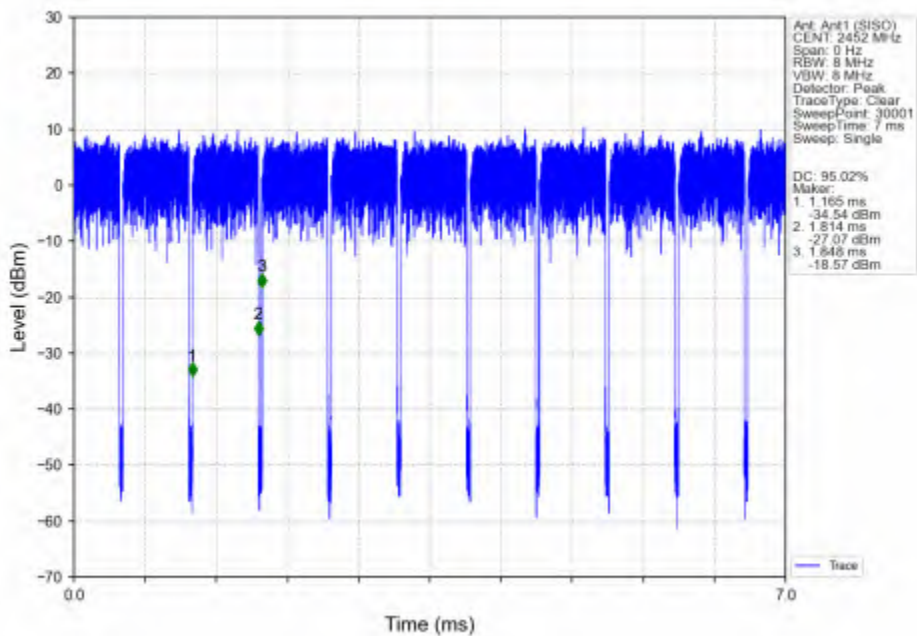


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

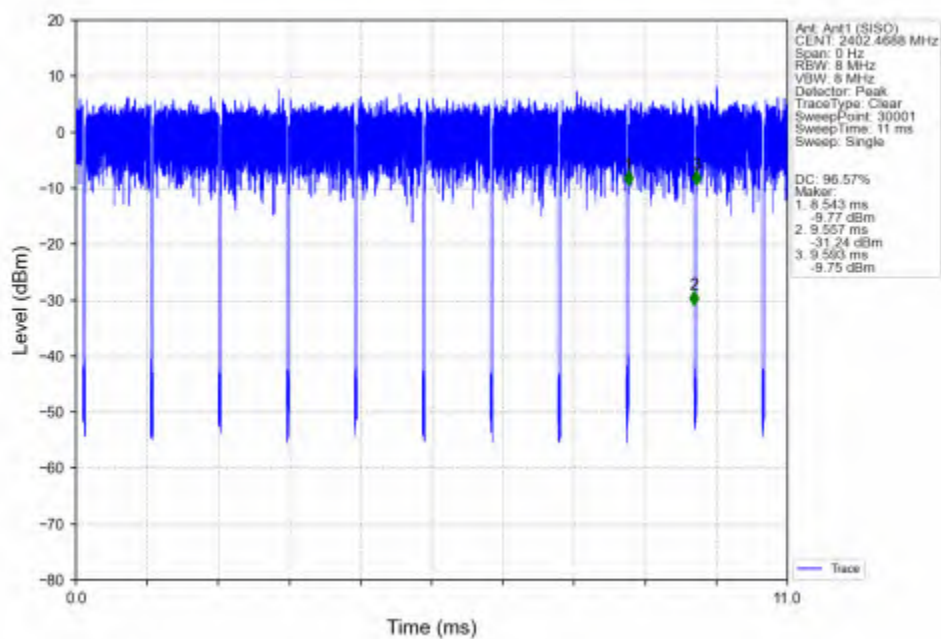


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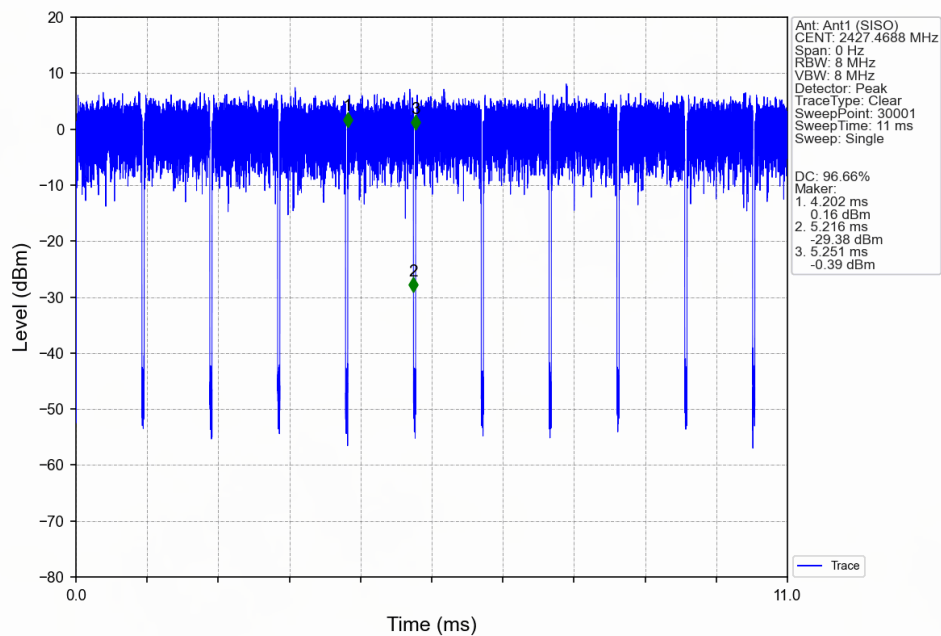


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802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV

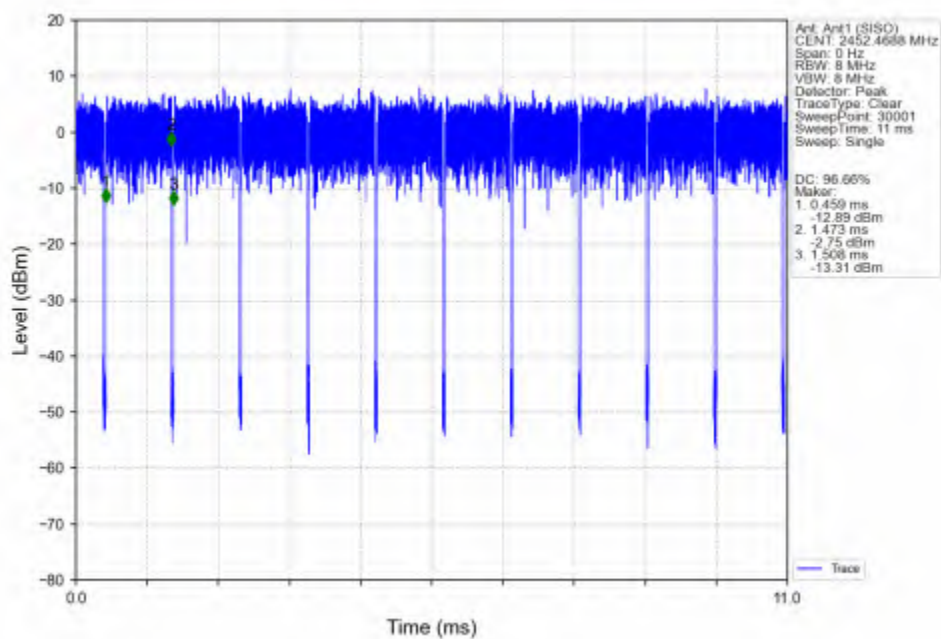


802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV

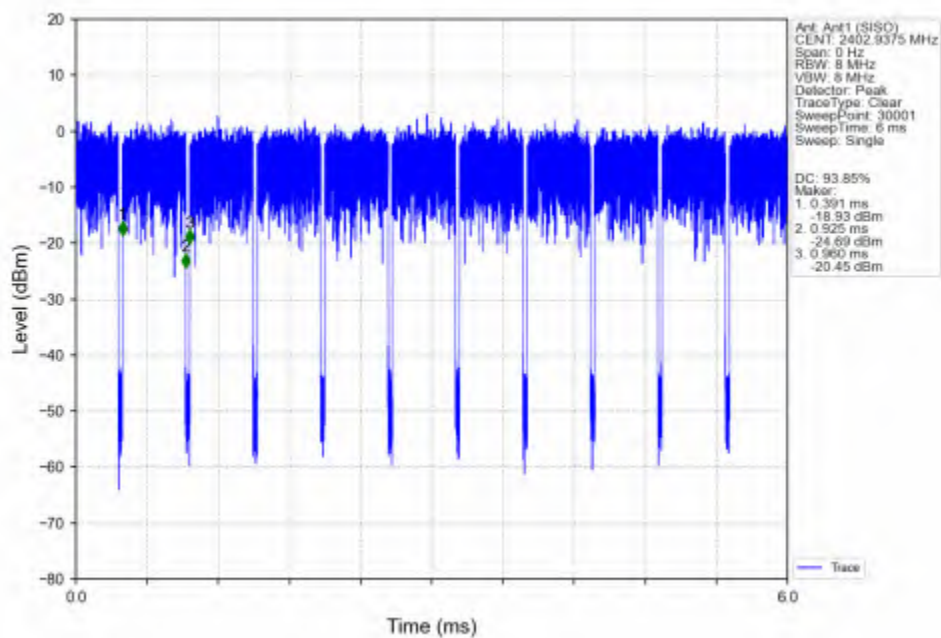


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802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV

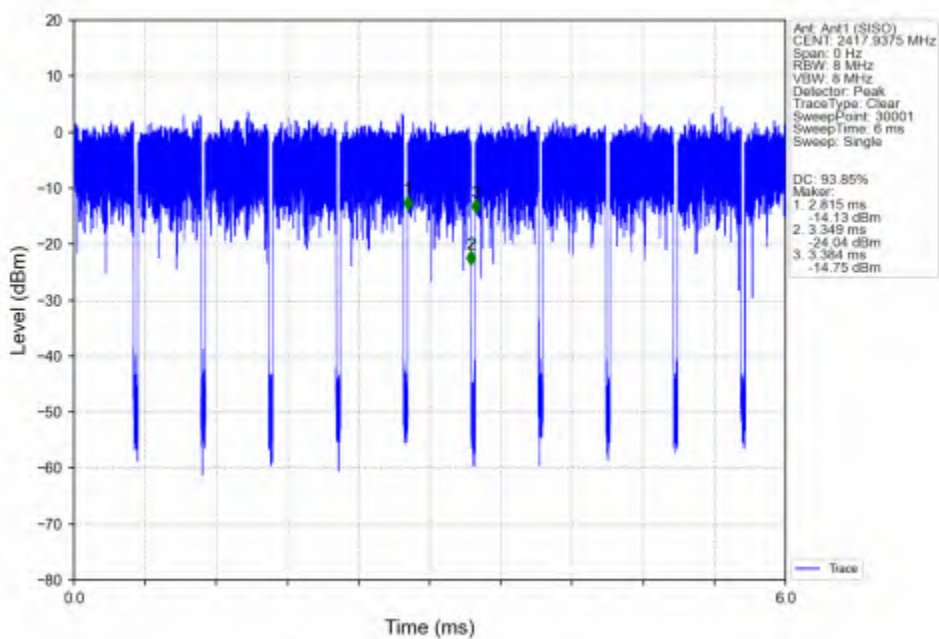


802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV

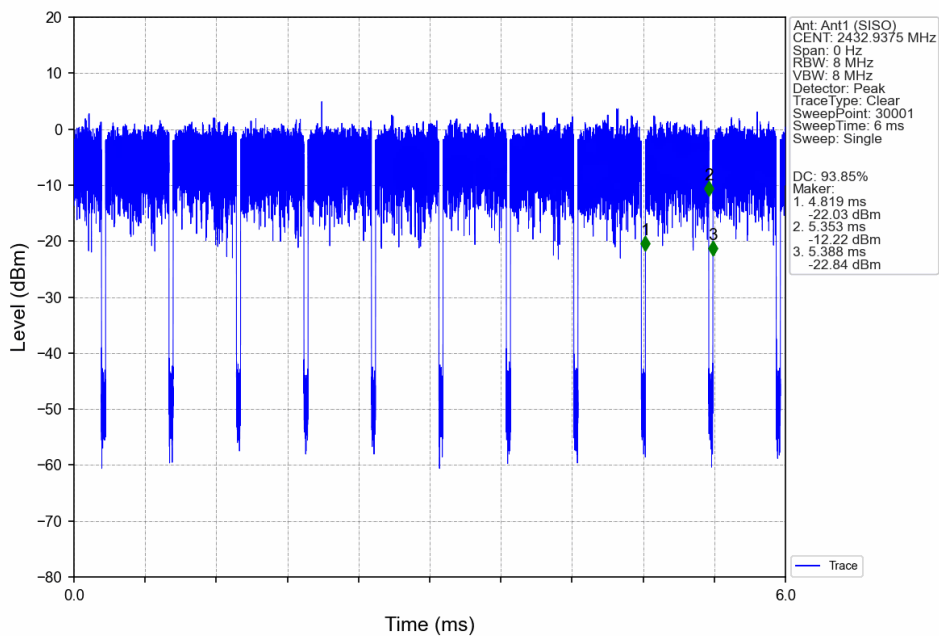


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802.11ax(HEW40) MCH_2437MHz_SU_ / _Ant1 (SISO)_NTNV

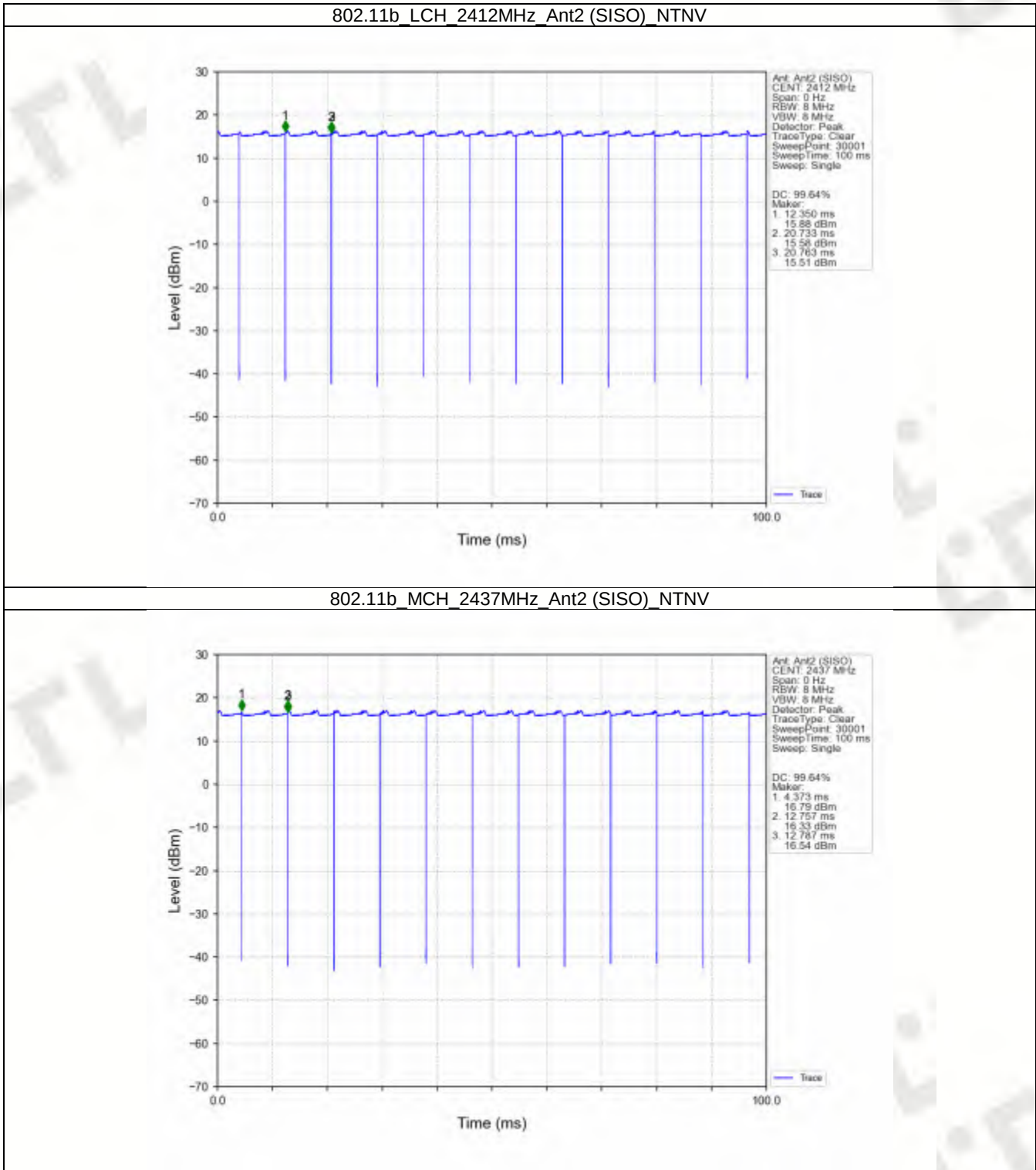


802.11ax(HEW40) HCH_2452MHz_SU_ / _Ant1 (SISO)_NTNV

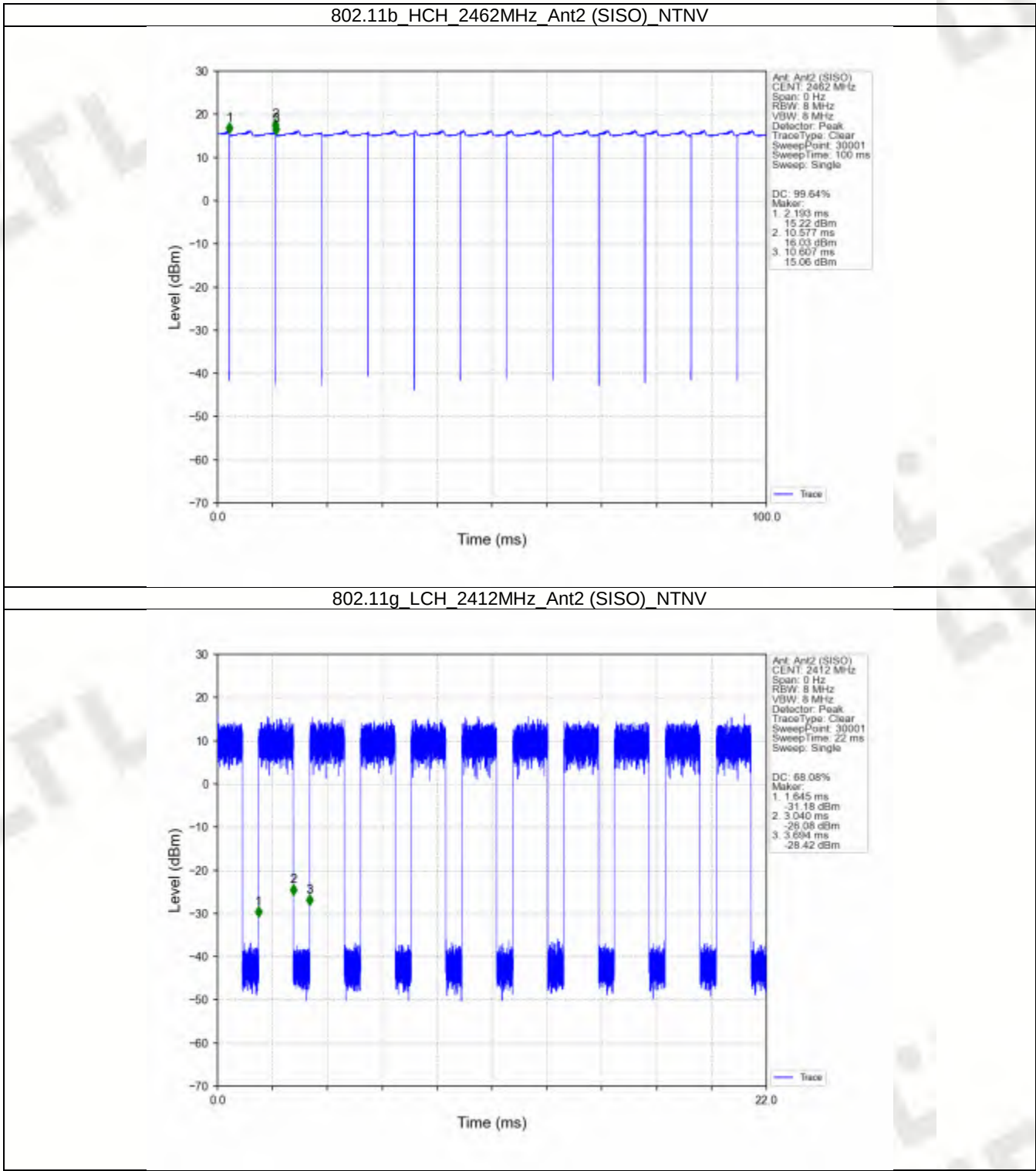


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1.2.2 Ant2

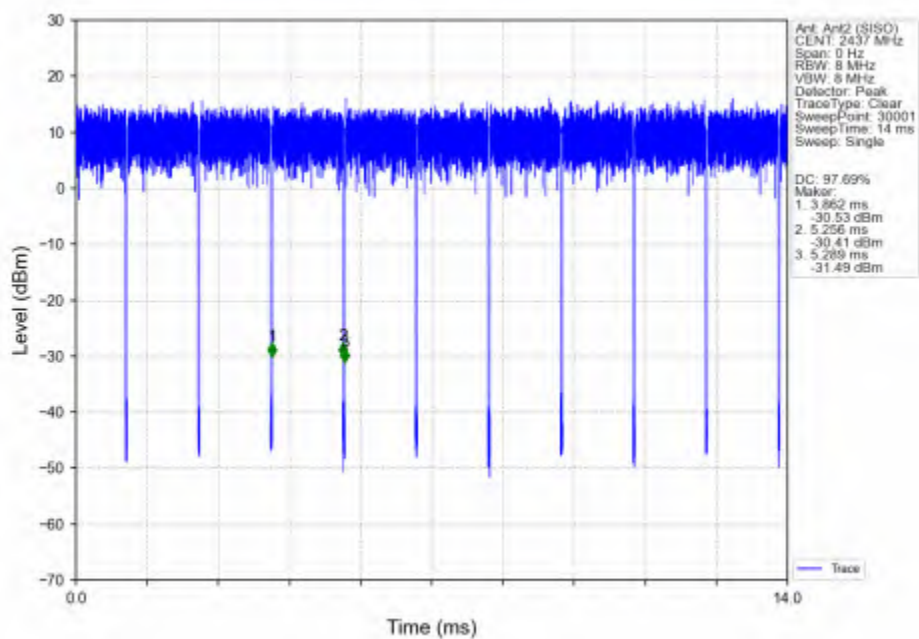


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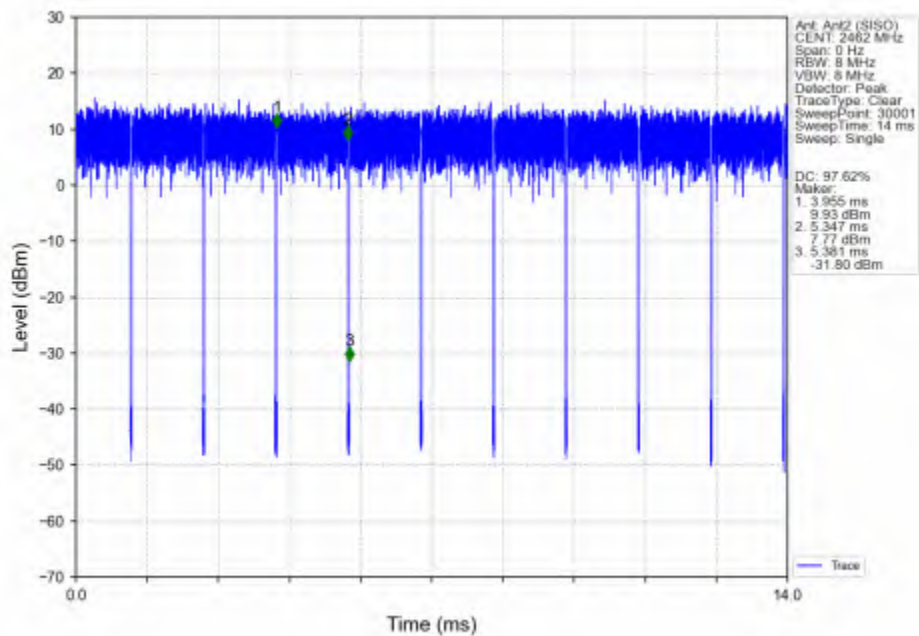


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802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV

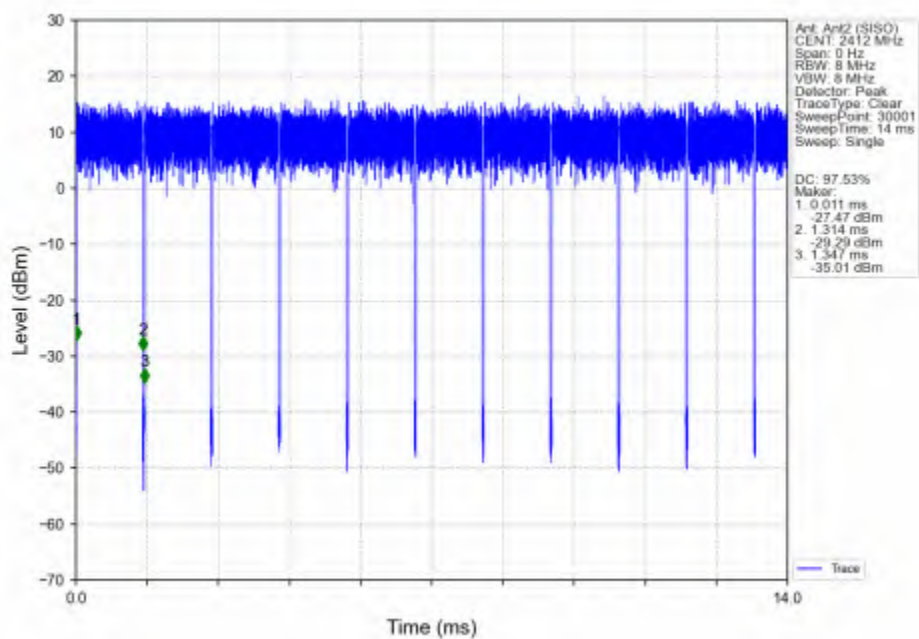


802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV

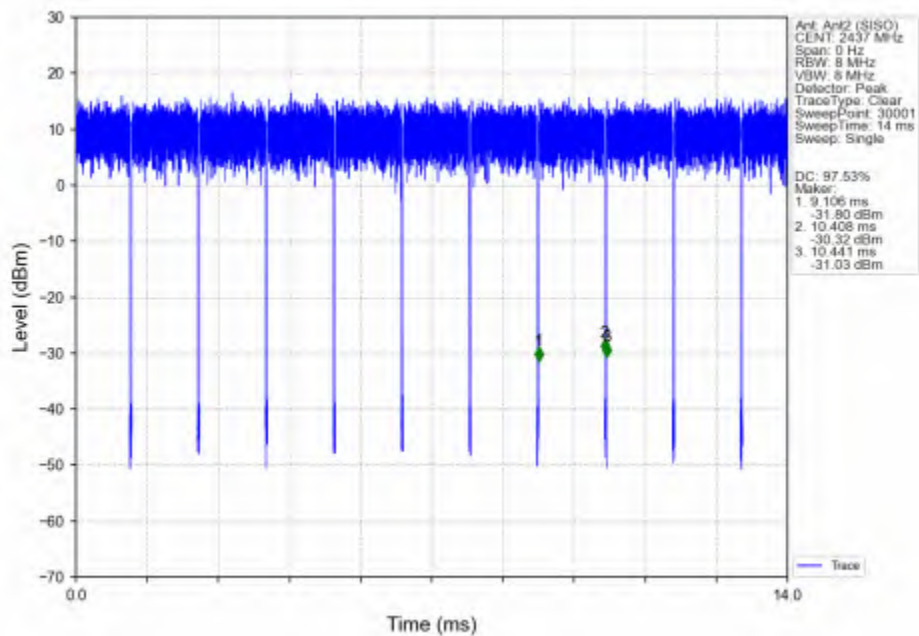


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802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV

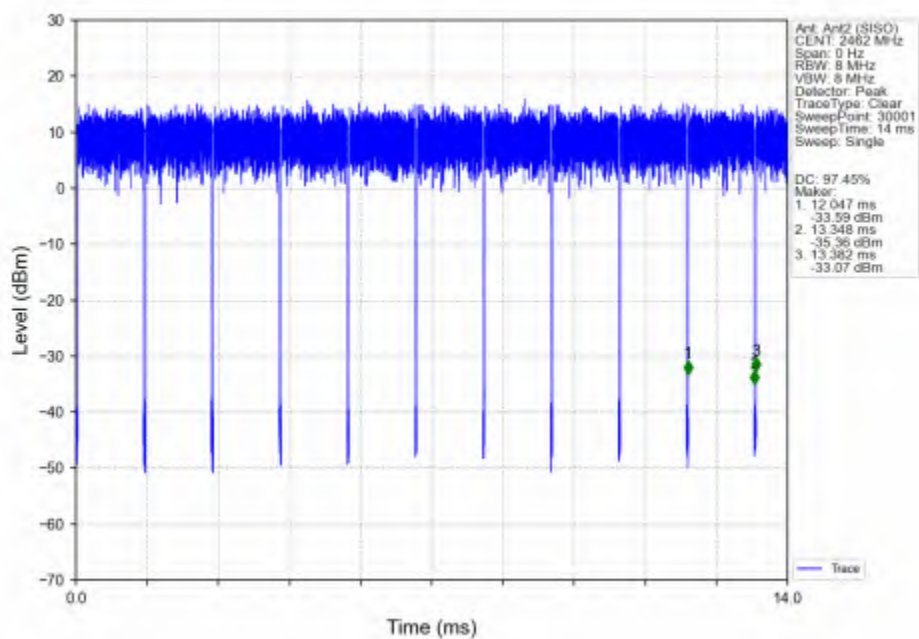


802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV

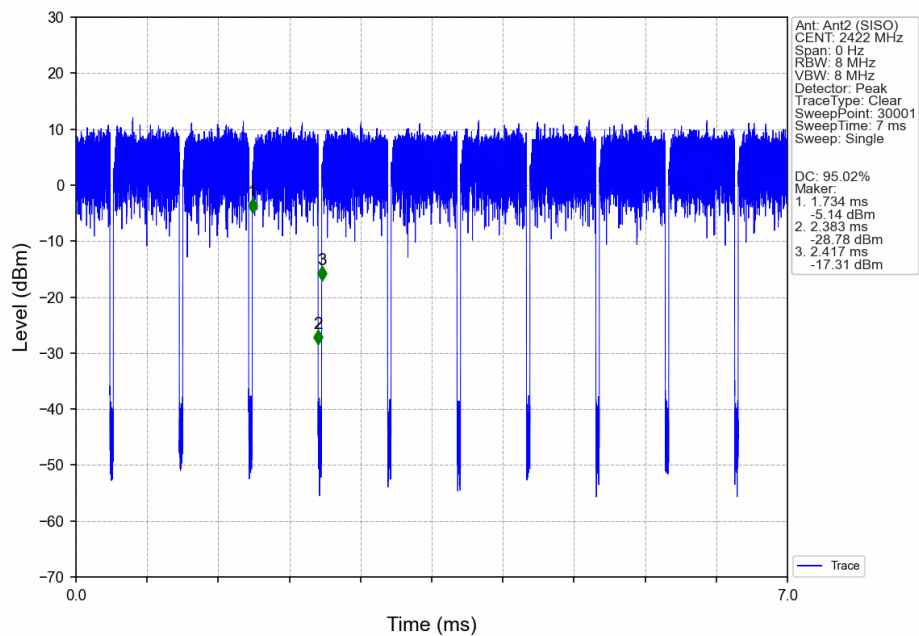


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802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV

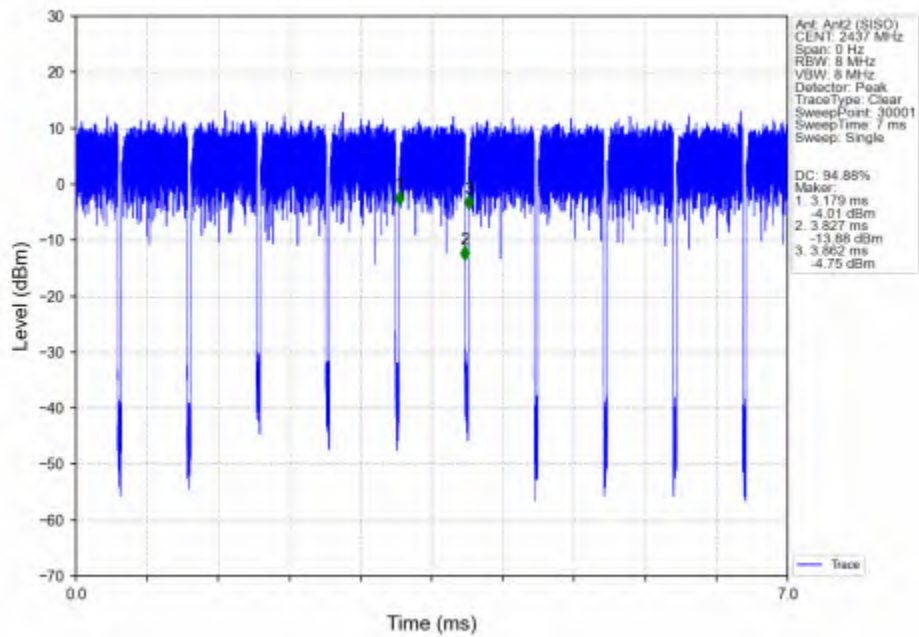


802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV

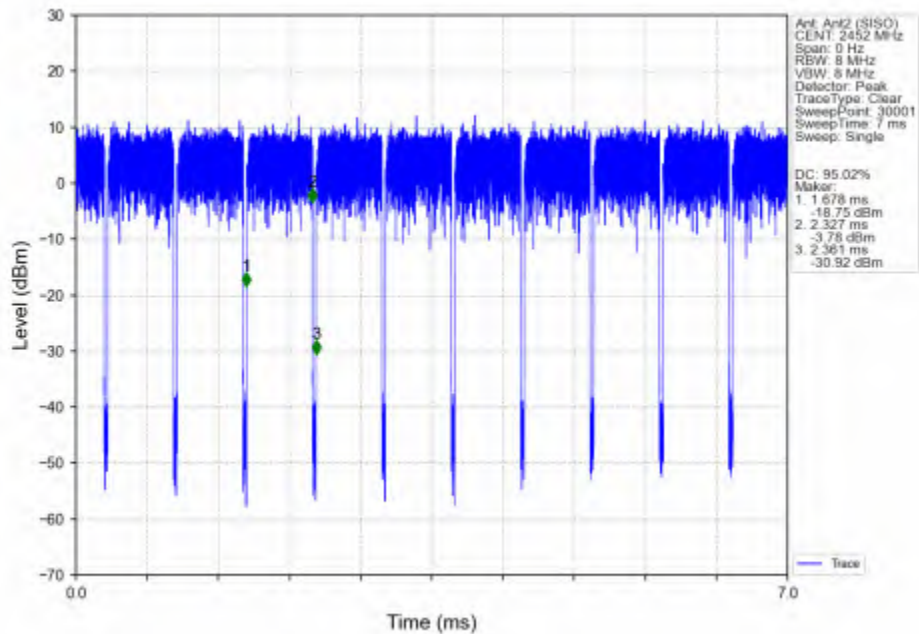


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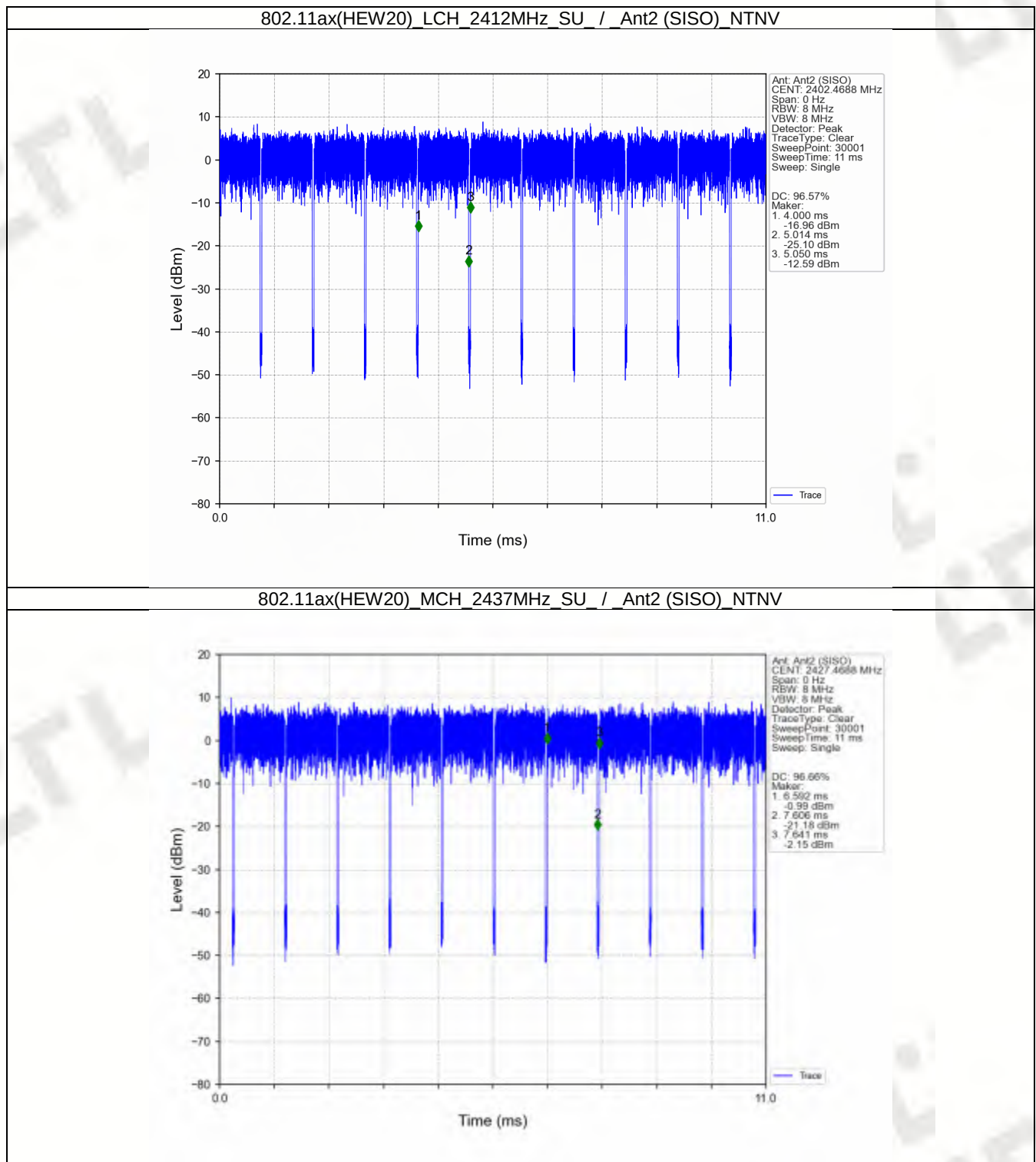
802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV

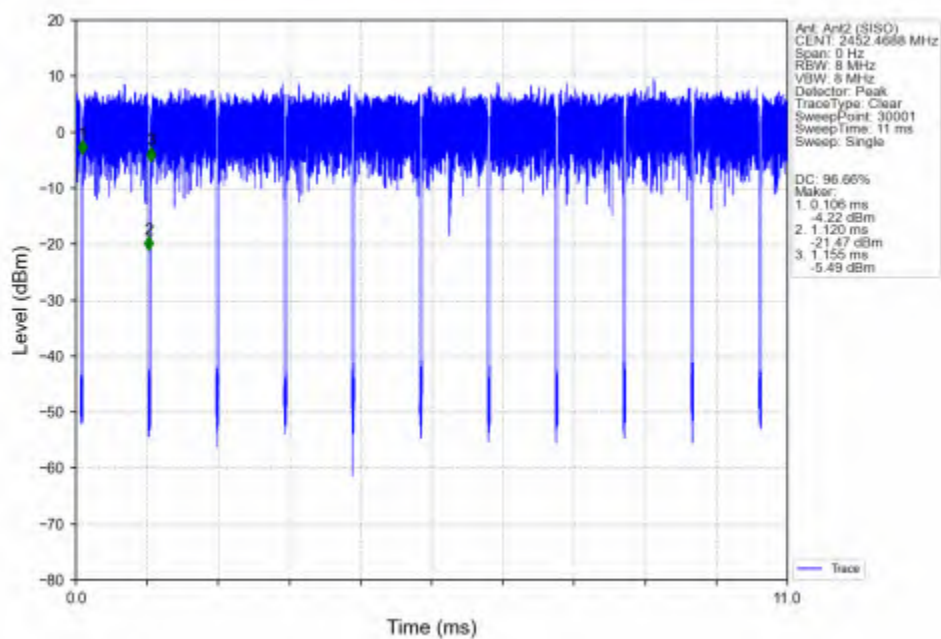


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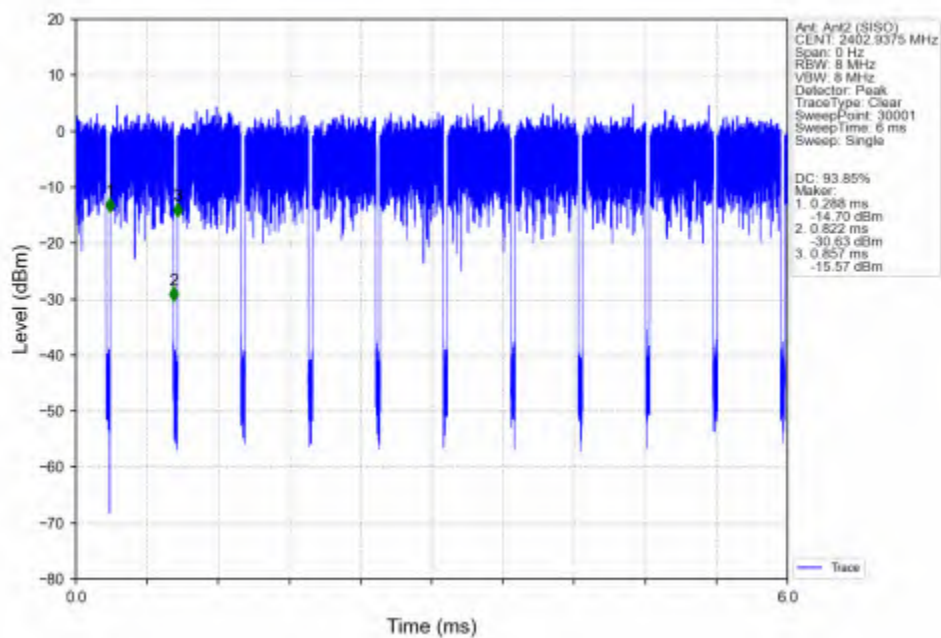


FCC ID: 2BLP-G7A1

802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant2 (SISO)_NTNV

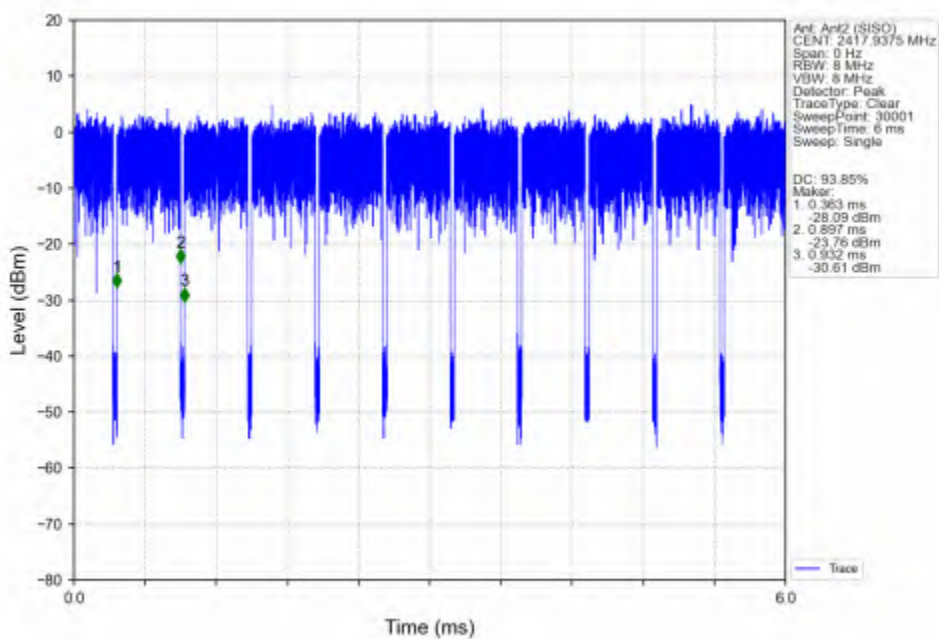


802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant2 (SISO)_NTNV

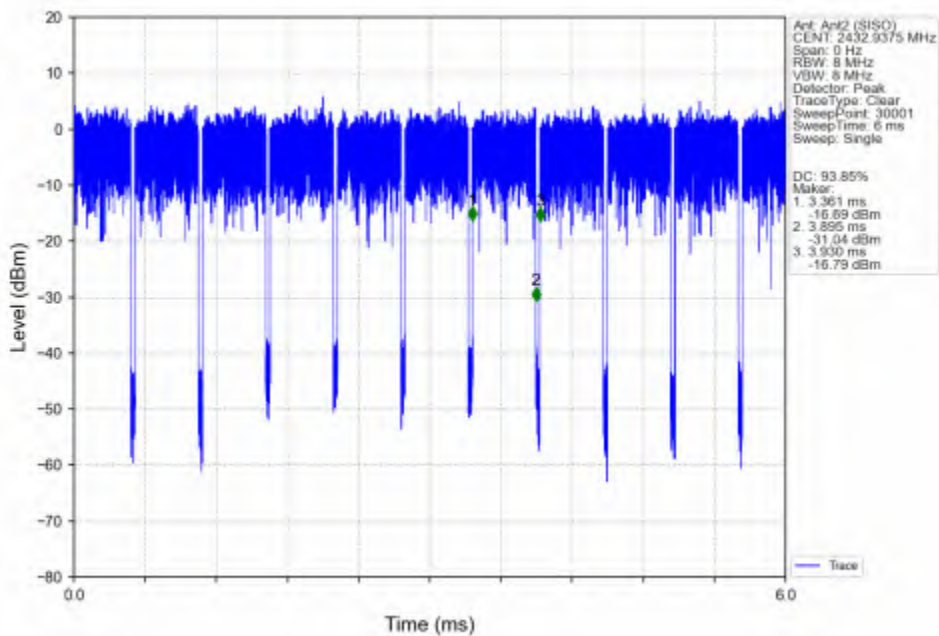


FCC ID: 2BLP-G7A1

802.11ax(HEW40) MCH 2437MHz_SU / _Ant2 (SISO)_NTNV



802.11ax(HEW40) HCH 2452MHz_SU / _Ant2 (SISO)_NTNV



FCC ID: 2BLP-G7A1

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	12.622	/	Pass
		2437	/	/	1	12.629	/	Pass
		2462	/	/	1	12.567	/	Pass
802.11g	SISO	2412	/	/	1	17.236	/	Pass
		2437	/	/	1	19.711	/	Pass
		2462	/	/	1	19.428	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.967	/	Pass
		2437	/	/	1	20.507	/	Pass
		2462	/	/	1	20.093	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.091	/	Pass
		2437	/	/	1	36.154	/	Pass
		2452	/	/	1	36.044	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.908	/	Pass
		2437	SU	/	1	19.524	/	Pass
		2462	SU	/	1	19.387	/	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	37.850	/	Pass
		2437	SU	/	1	37.853	/	Pass
		2452	SU	/	1	37.835	/	Pass

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	2	12.612	/	Pass
		2437	/	/	2	12.433	/	Pass
		2462	/	/	2	12.506	/	Pass
802.11g	SISO	2412	/	/	2	17.288	/	Pass
		2437	/	/	2	19.109	/	Pass
		2462	/	/	2	19.586	/	Pass
802.11n (HT20)	SISO	2412	/	/	2	18.059	/	Pass
		2437	/	/	2	19.695	/	Pass
		2462	/	/	2	20.166	/	Pass
802.11n (HT40)	SISO	2422	/	/	2	36.151	/	Pass
		2437	/	/	2	35.945	/	Pass
		2452	/	/	2	36.186	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	2	18.940	/	Pass
		2437	SU	/	2	19.300	/	Pass
		2462	SU	/	2	19.438	/	Pass
802.11ax	SISO	2422	SU	/	2	37.886	/	Pass

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(HEW40)	2437	SU	/	2	37.717	/	Pass
	2452	SU	/	2	37.862	/	Pass

2.1.2 6dB BW

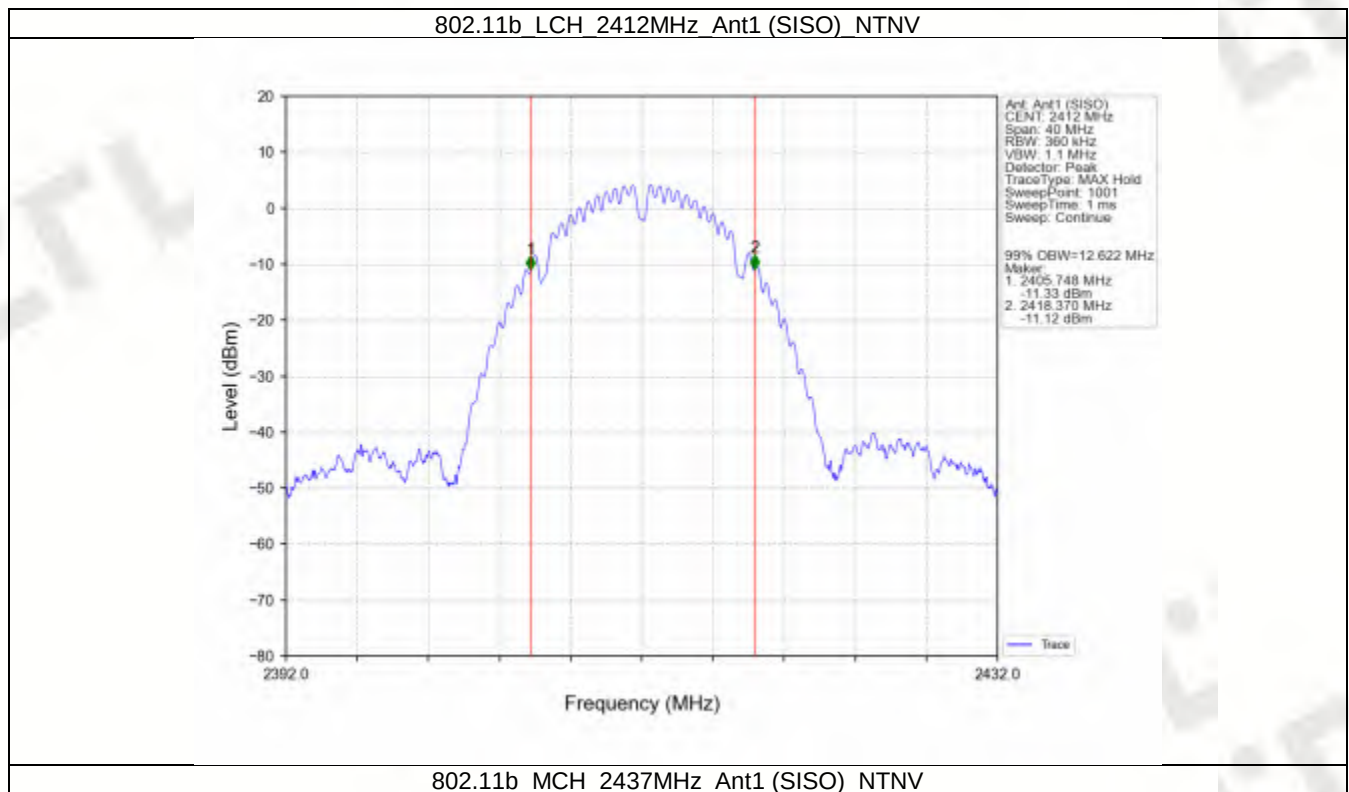
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	8.219	>=0.5	Pass
		2437	/	/	1	8.226	>=0.5	Pass
		2462	/	/	1	8.222	>=0.5	Pass
802.11g	SISO	2412	/	/	1	15.746	>=0.5	Pass
		2437	/	/	1	16.464	>=0.5	Pass
		2462	/	/	1	16.313	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.148	>=0.5	Pass
		2437	/	/	1	17.629	>=0.5	Pass
		2462	/	/	1	17.524	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.443	>=0.5	Pass
		2437	/	/	1	35.563	>=0.5	Pass
		2452	/	/	1	35.374	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.444	>=0.5	Pass
		2437	SU	/	1	18.623	>=0.5	Pass
		2462	SU	/	1	18.726	>=0.5	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	37.390	>=0.5	Pass
		2437	SU	/	1	37.338	>=0.5	Pass
		2452	SU	/	1	37.098	>=0.5	Pass

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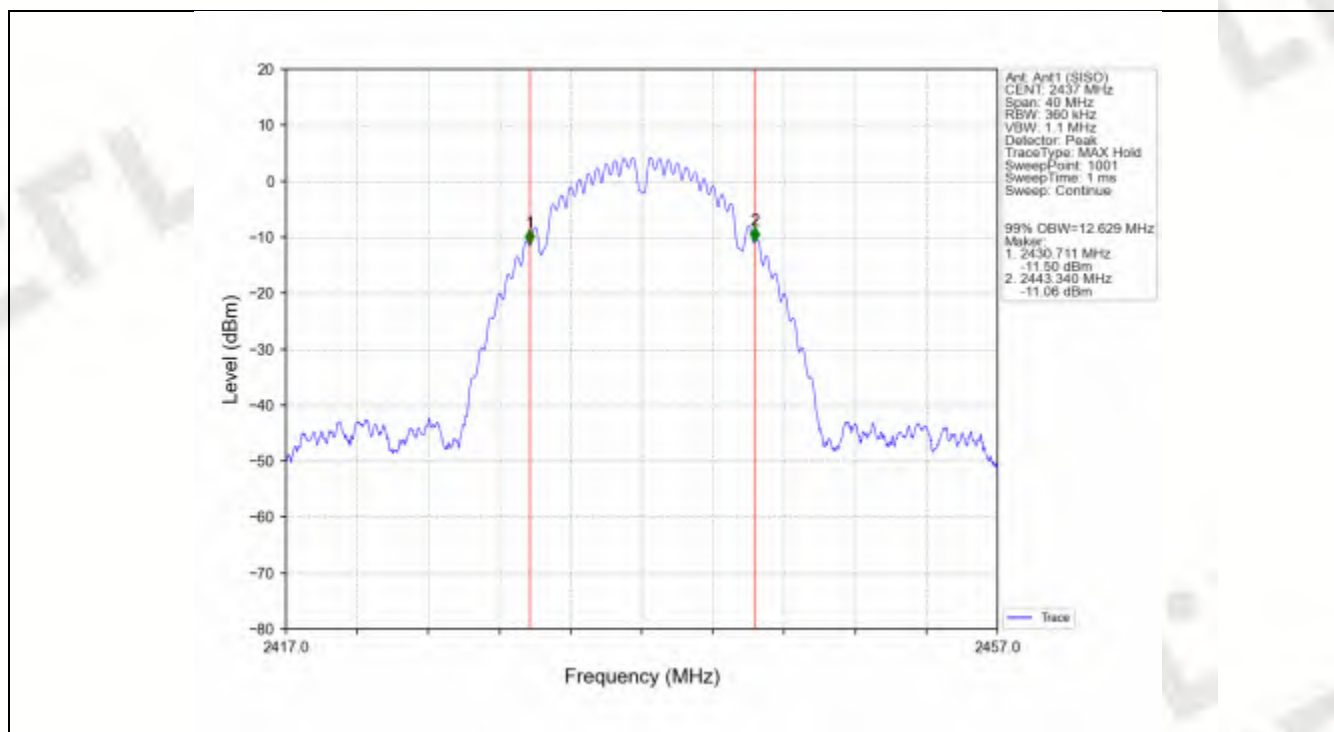
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	2	8.227	≥ 0.5	Pass
		2437	/	/	2	8.199	≥ 0.5	Pass
		2462	/	/	2	8.207	≥ 0.5	Pass
802.11g	SISO	2412	/	/	2	16.150	≥ 0.5	Pass
		2437	/	/	2	16.225	≥ 0.5	Pass
		2462	/	/	2	16.442	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	2	17.280	≥ 0.5	Pass
		2437	/	/	2	17.382	≥ 0.5	Pass
		2462	/	/	2	17.557	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	/	/	2	35.581	≥ 0.5	Pass
		2437	/	/	2	35.047	≥ 0.5	Pass
		2452	/	/	2	35.747	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	2	18.512	≥ 0.5	Pass
		2437	SU	/	2	18.624	≥ 0.5	Pass
		2462	SU	/	2	18.613	≥ 0.5	Pass
802.11ax (HEW40)	SISO	2422	SU	/	2	36.915	≥ 0.5	Pass
		2437	SU	/	2	37.193	≥ 0.5	Pass
		2452	SU	/	2	37.583	≥ 0.5	Pass

2.2 Test Graph

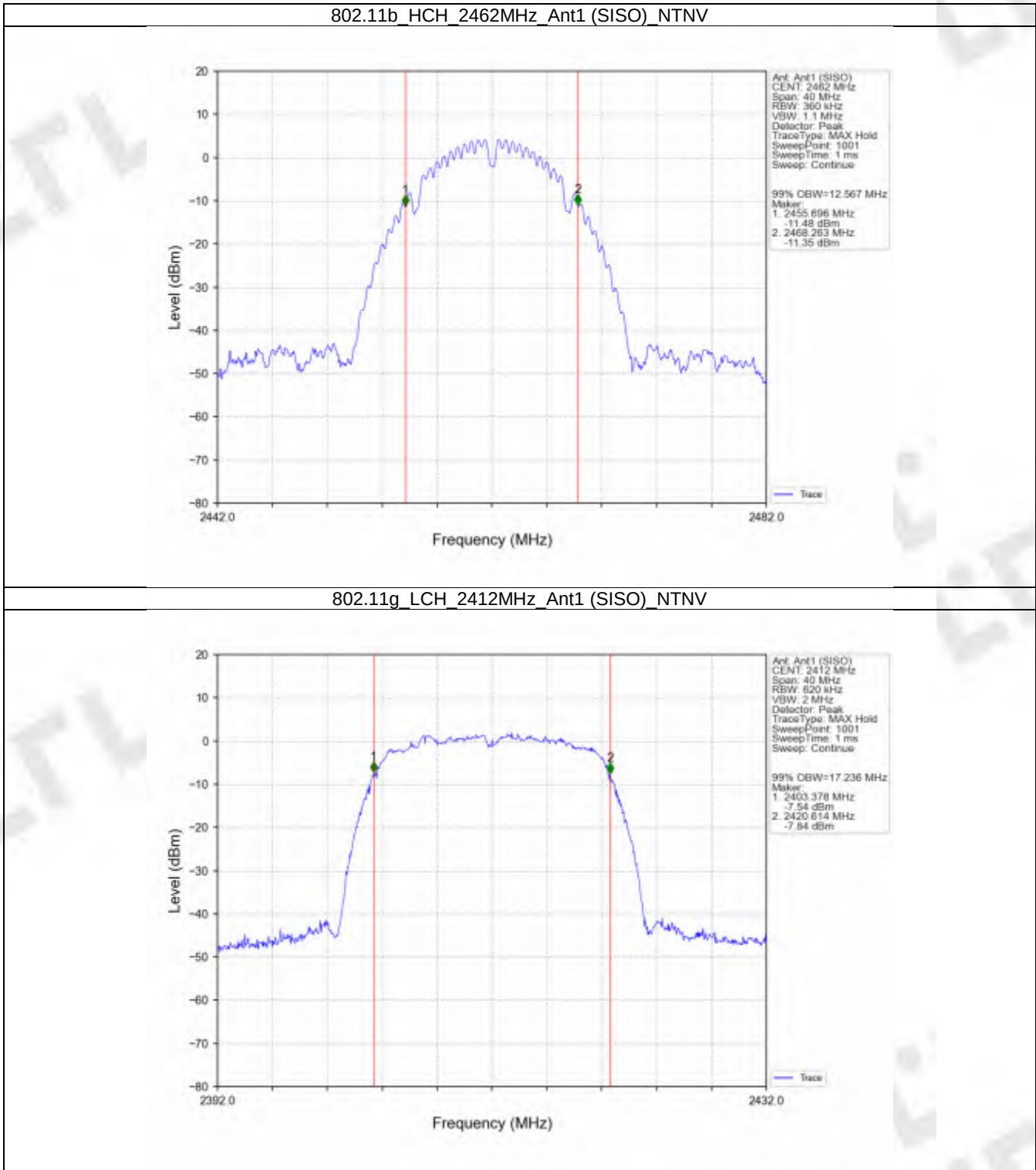
2.2.1 OBW



FCC ID: 2BLP-G7A1

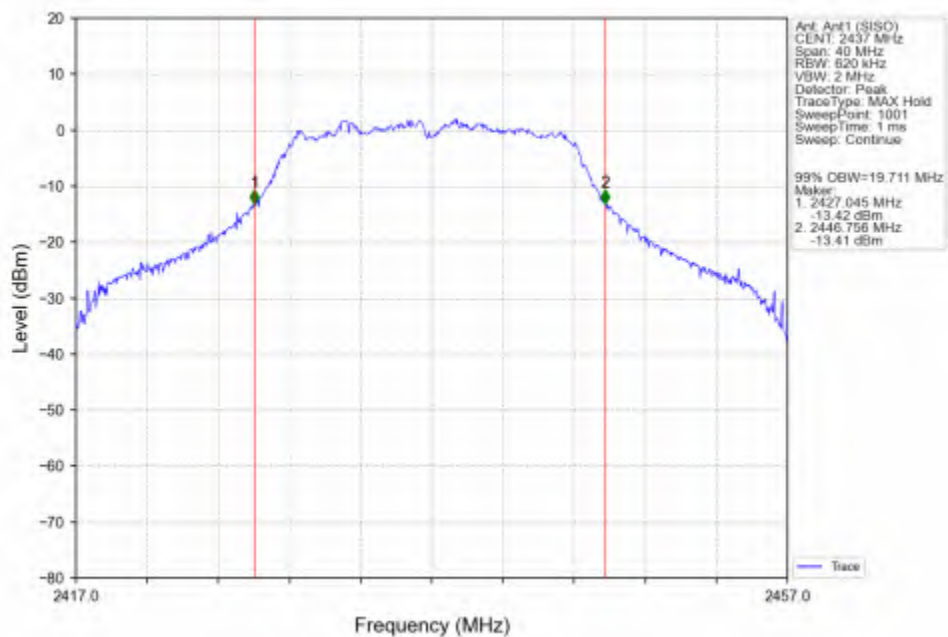


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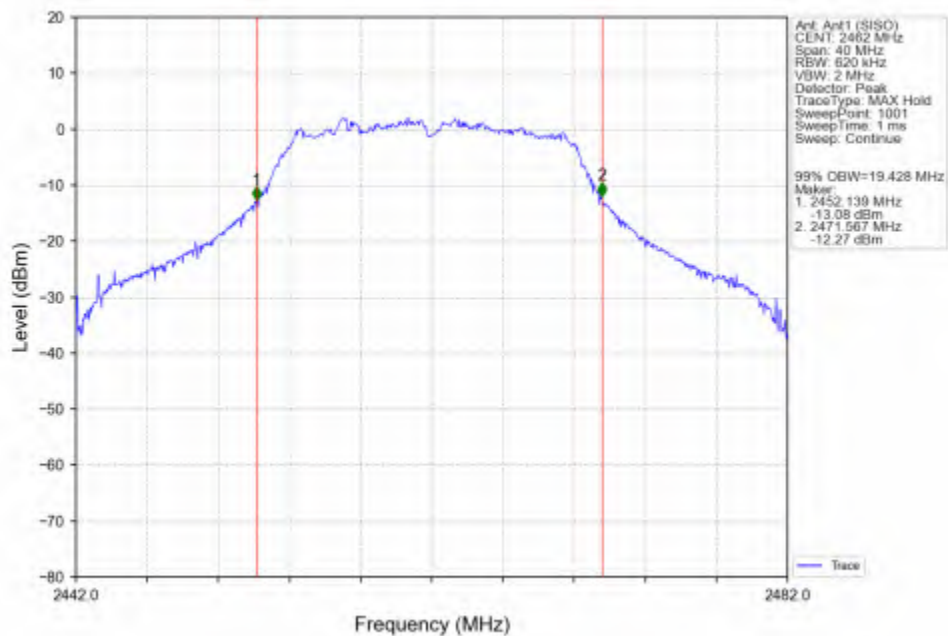


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

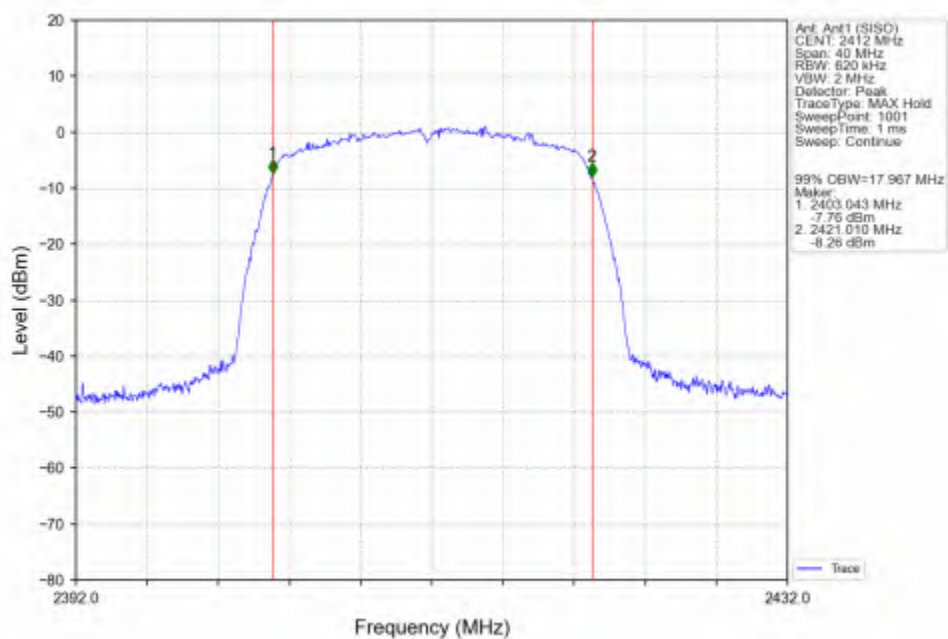


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

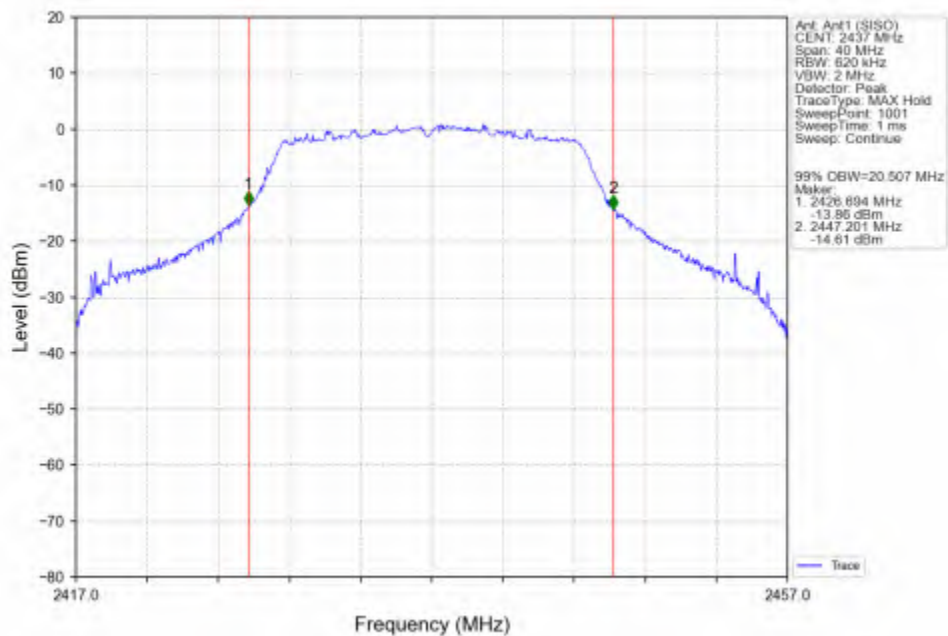


FCC ID: 2BLP-G7A1

802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

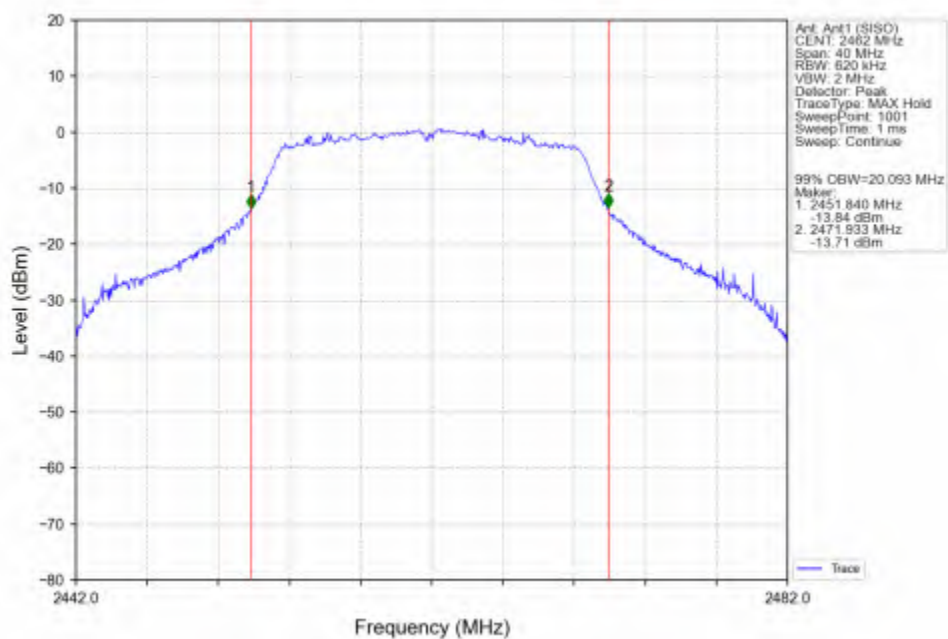


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

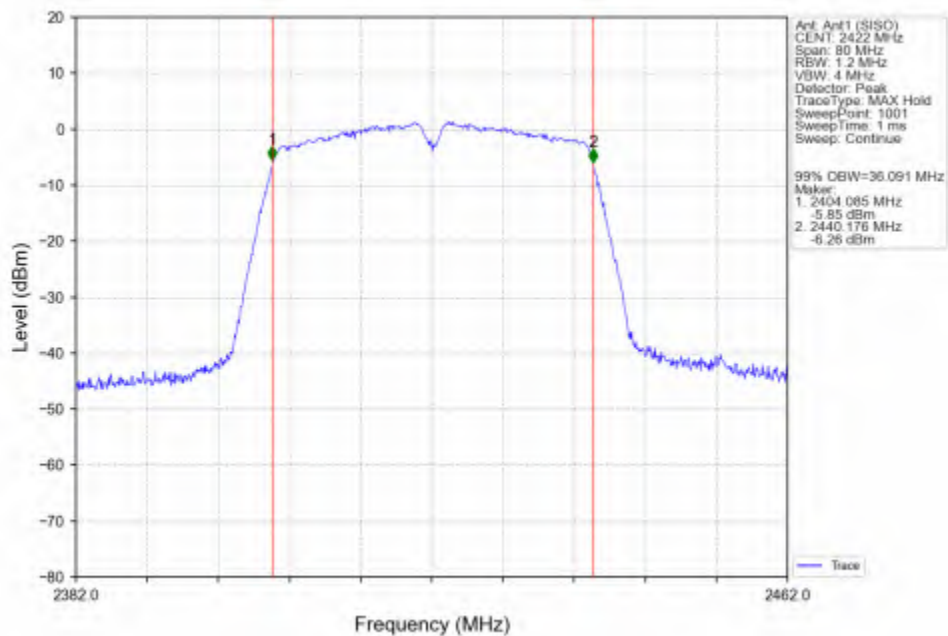


FCC ID: 2BLP-G7A1

802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

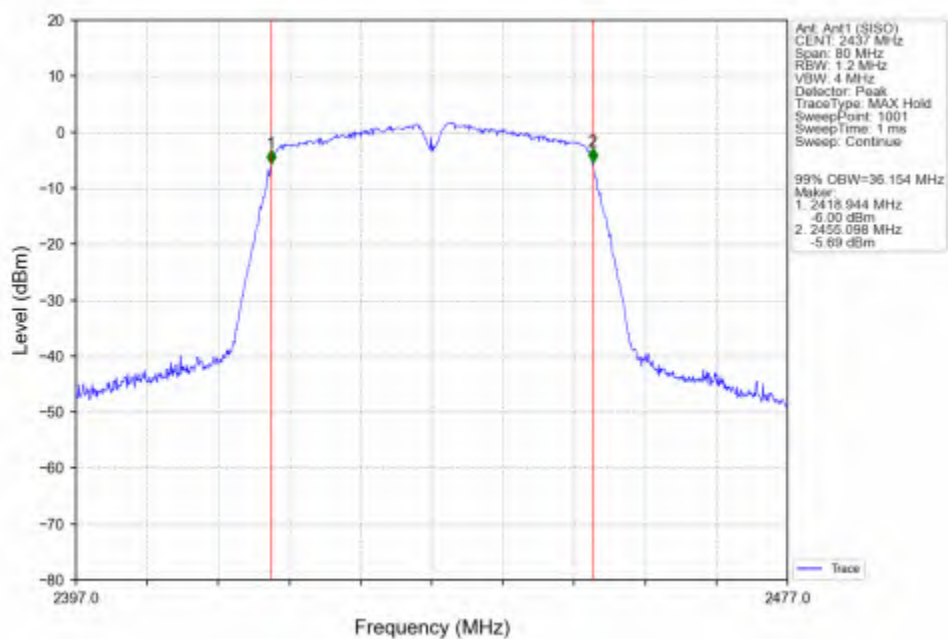


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

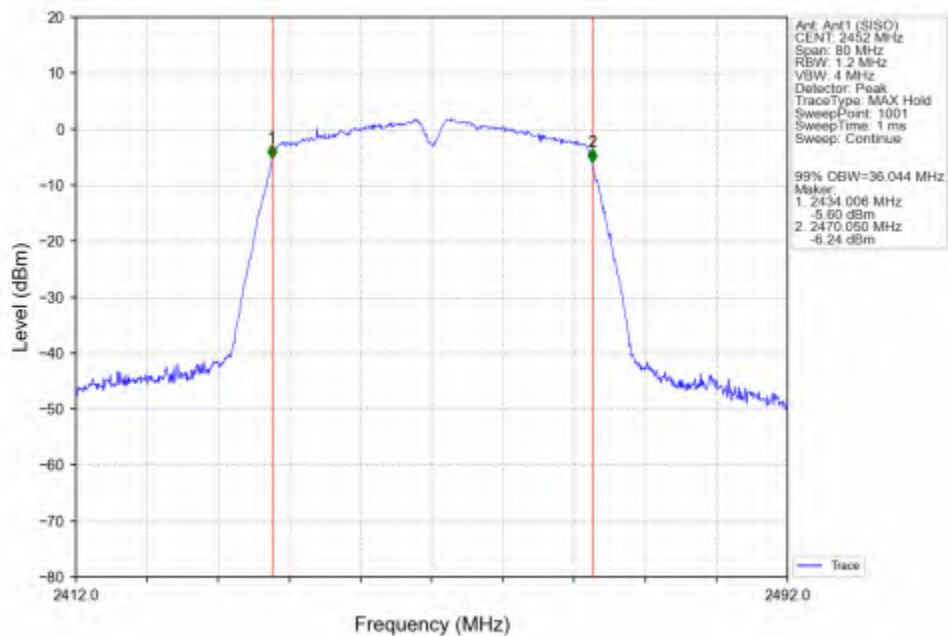


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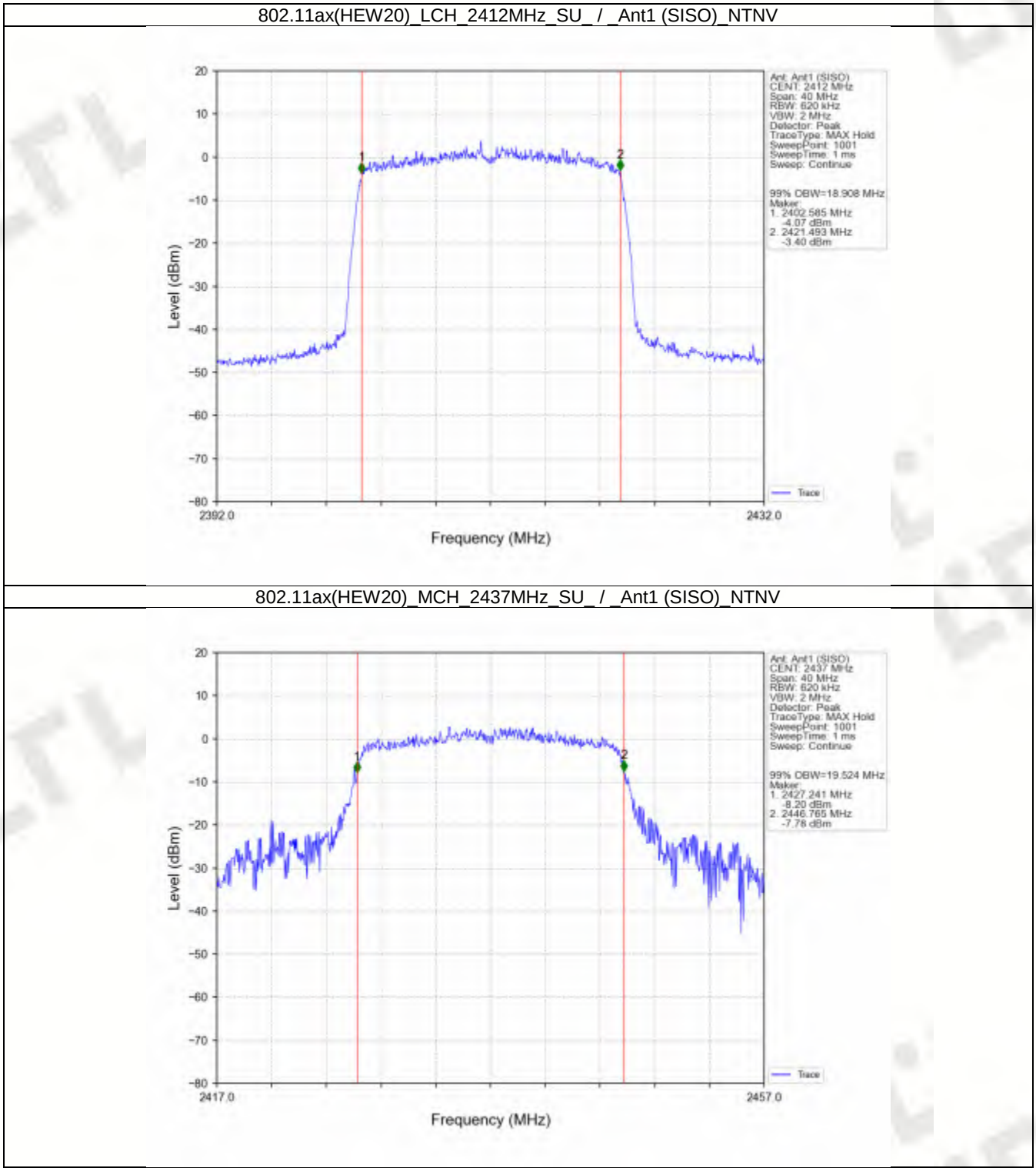
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

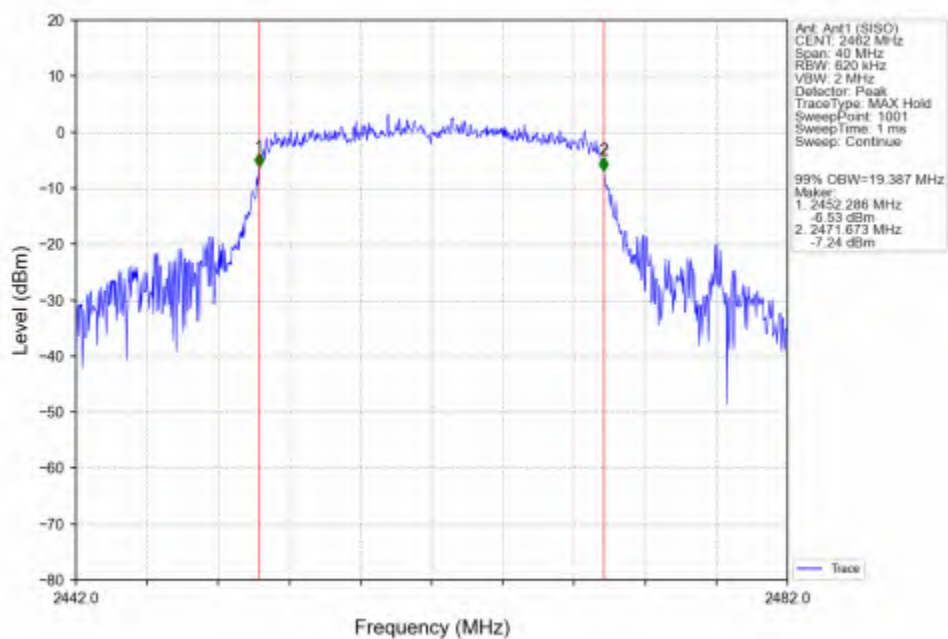


FCC ID: 2BLP-G7A1

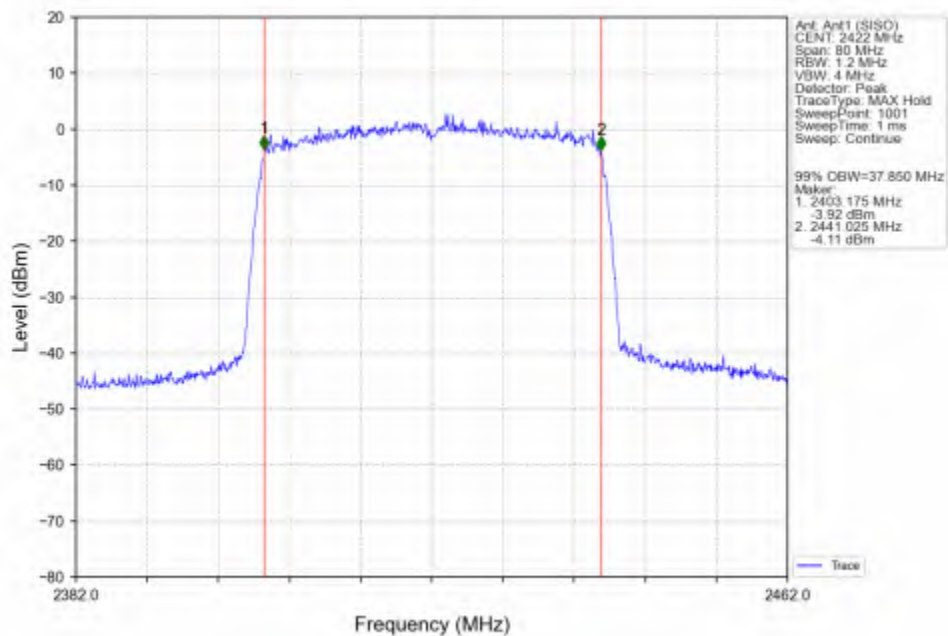


FCC ID: 2BLP-G7A1

802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV

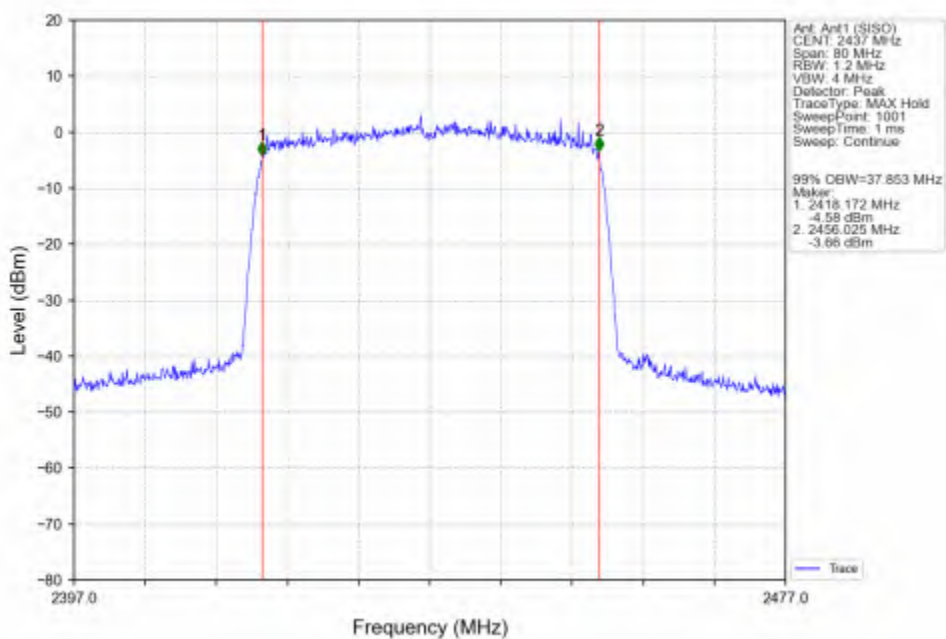


802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV

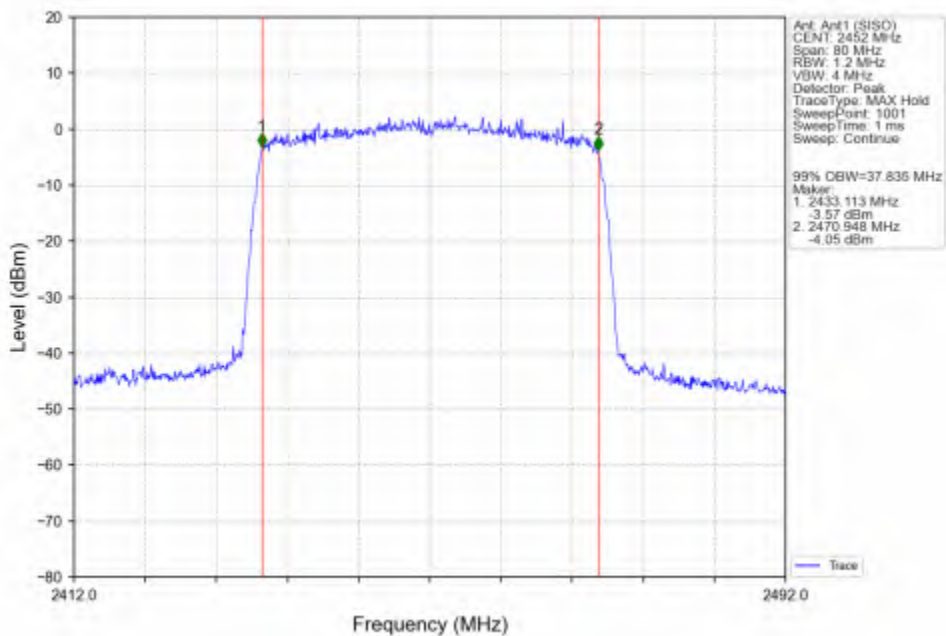


FCC ID: 2BLP-G7A1

802.11ax(HEW40) MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV

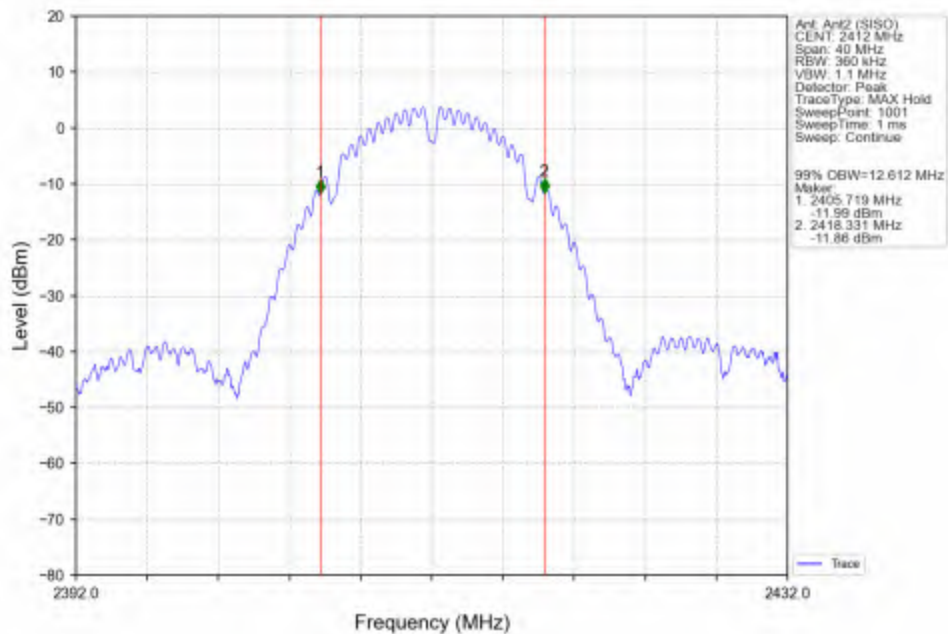


802.11ax(HEW40) HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV

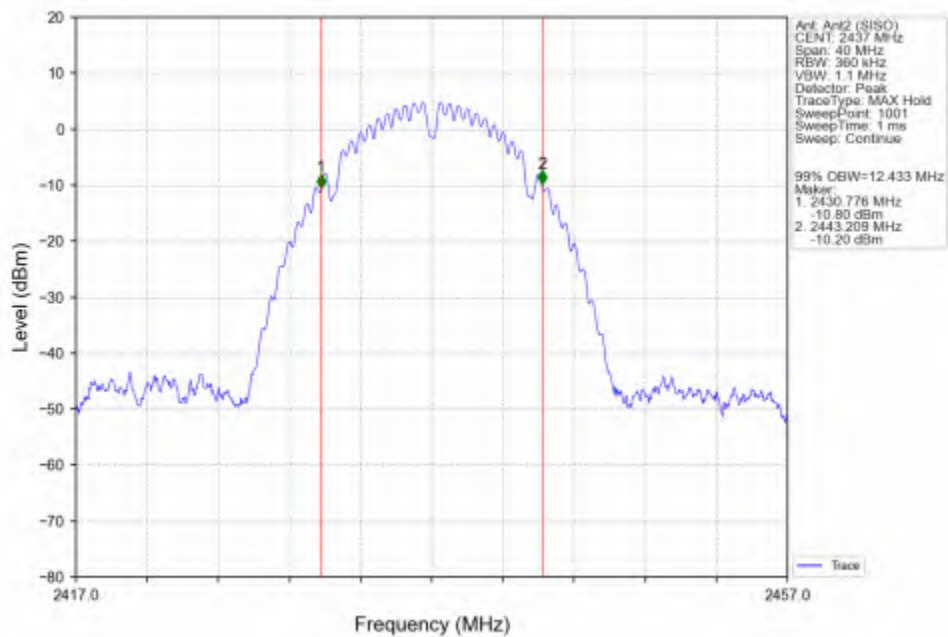


FCC ID: 2BLP-G7A1

802.11b LCH 2412MHz Ant2 (SISO) NTN

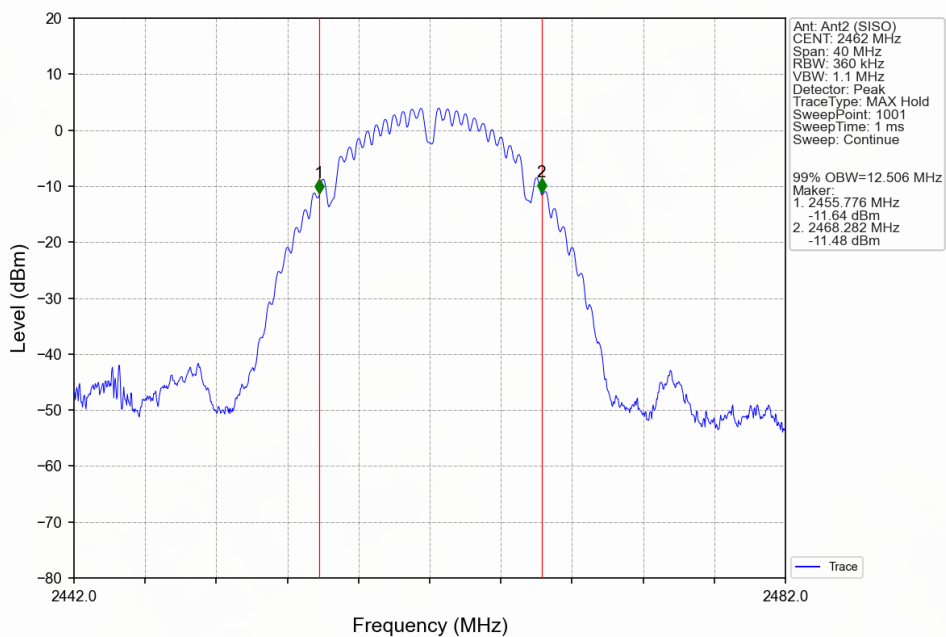


802.11b MCH 2437MHz Ant2 (SISO) NTN

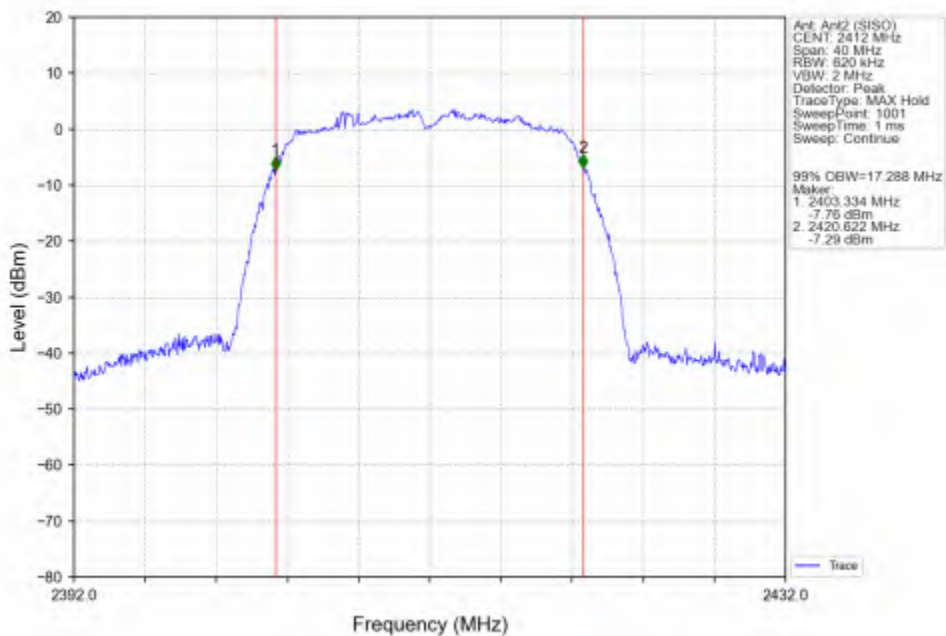


FCC ID: 2BLP-G7A1

802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

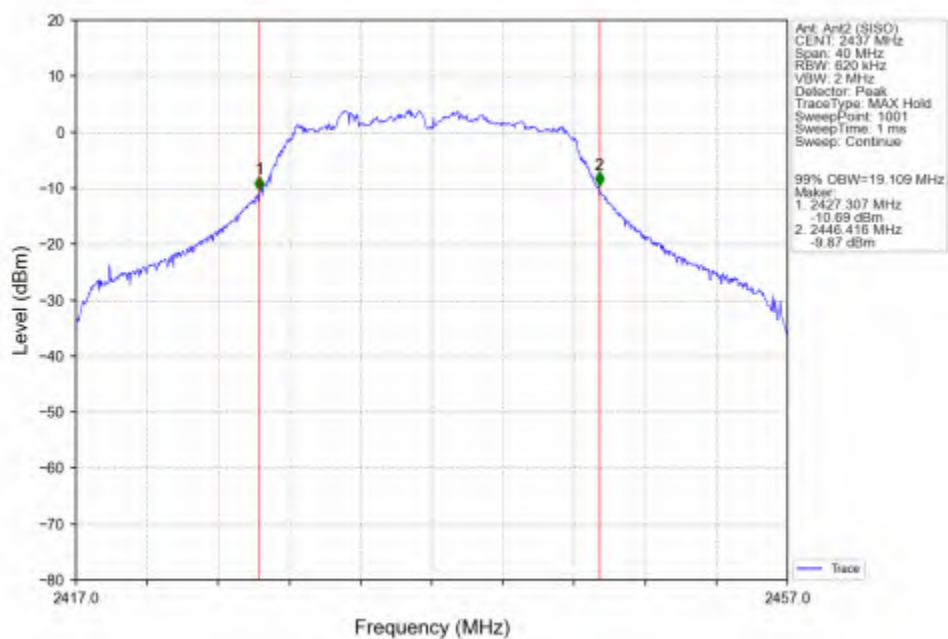


802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV

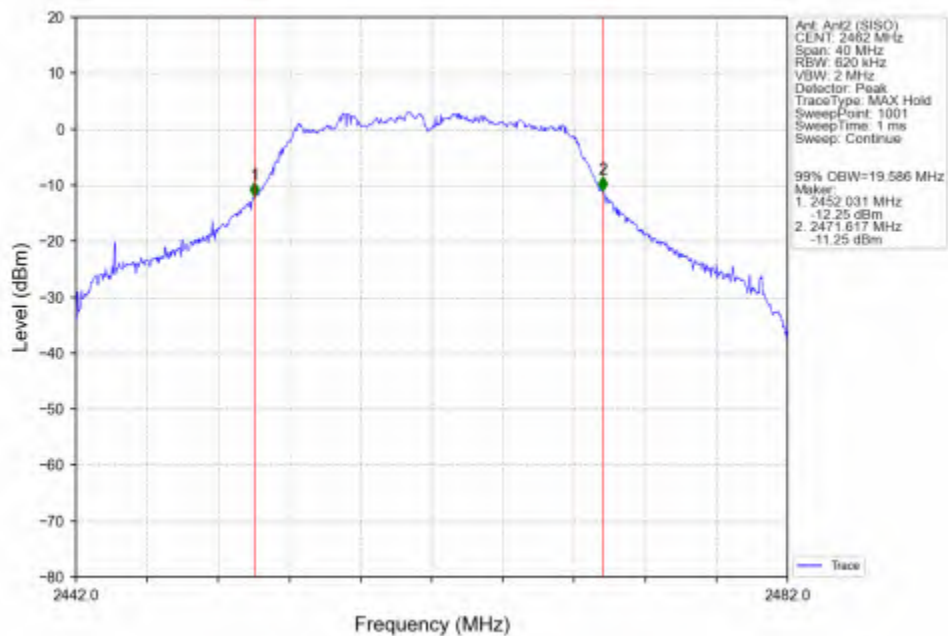


FCC ID: 2BLP-G7A1

802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV

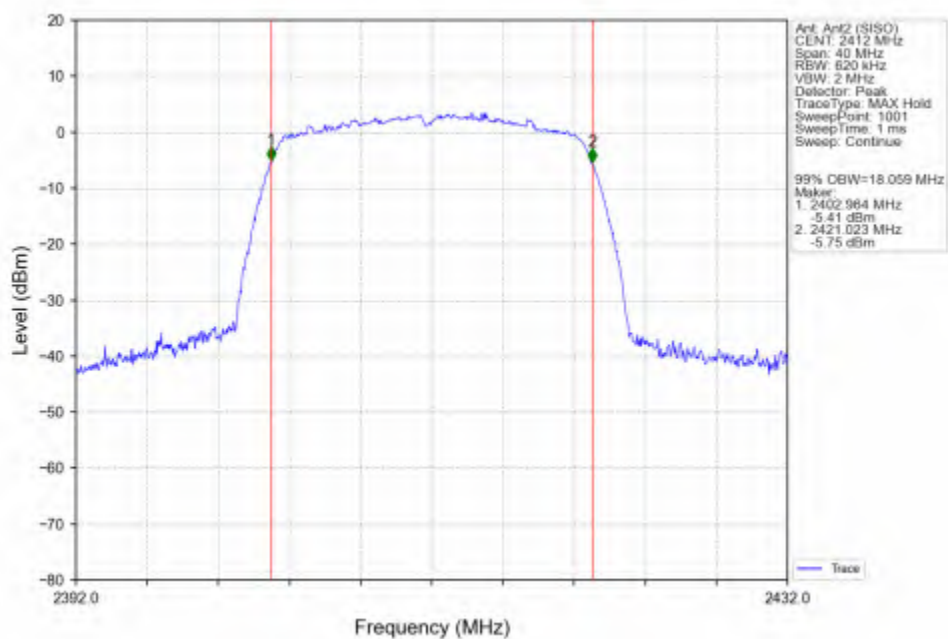


802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV

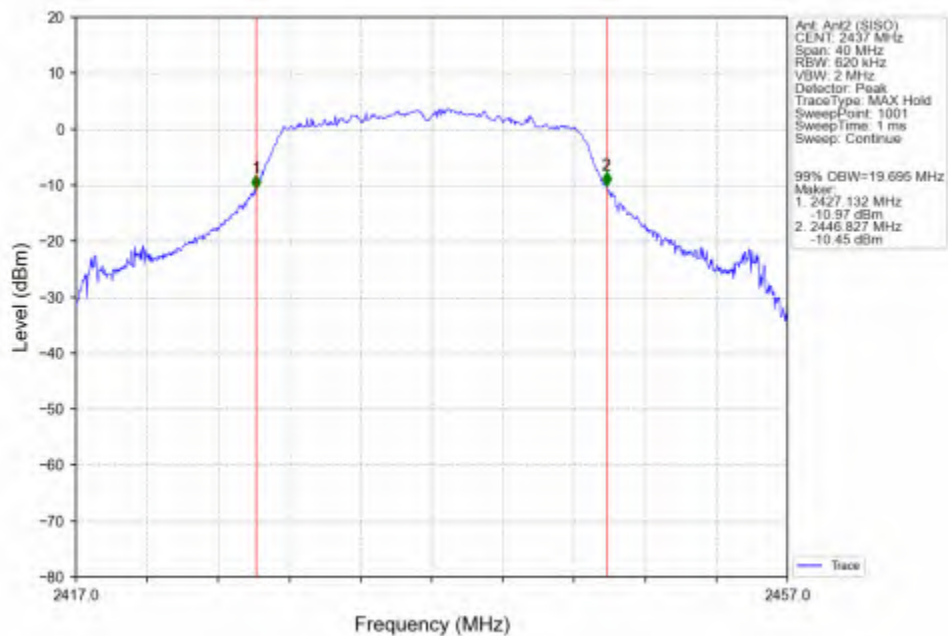


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802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV

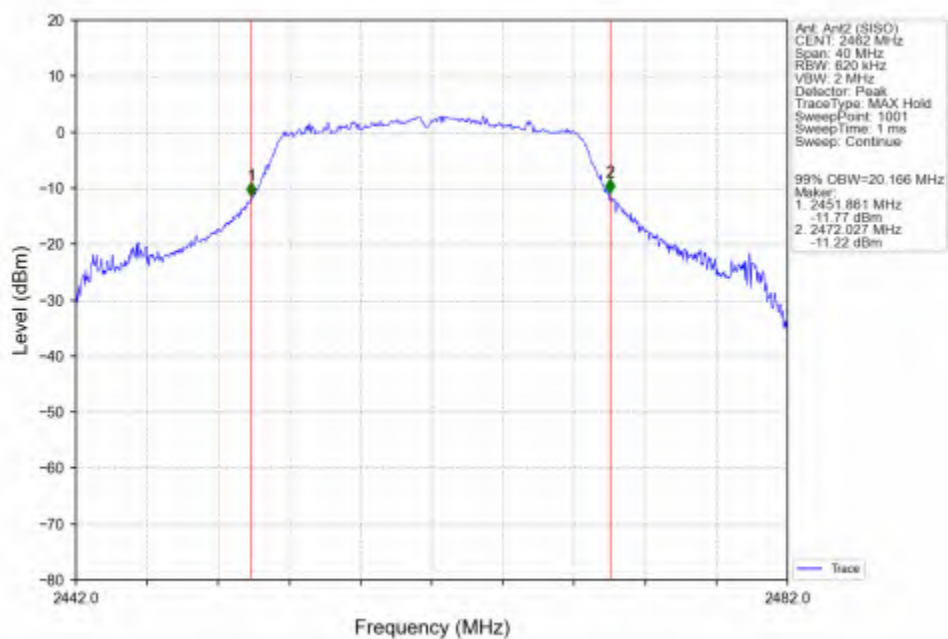


802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV

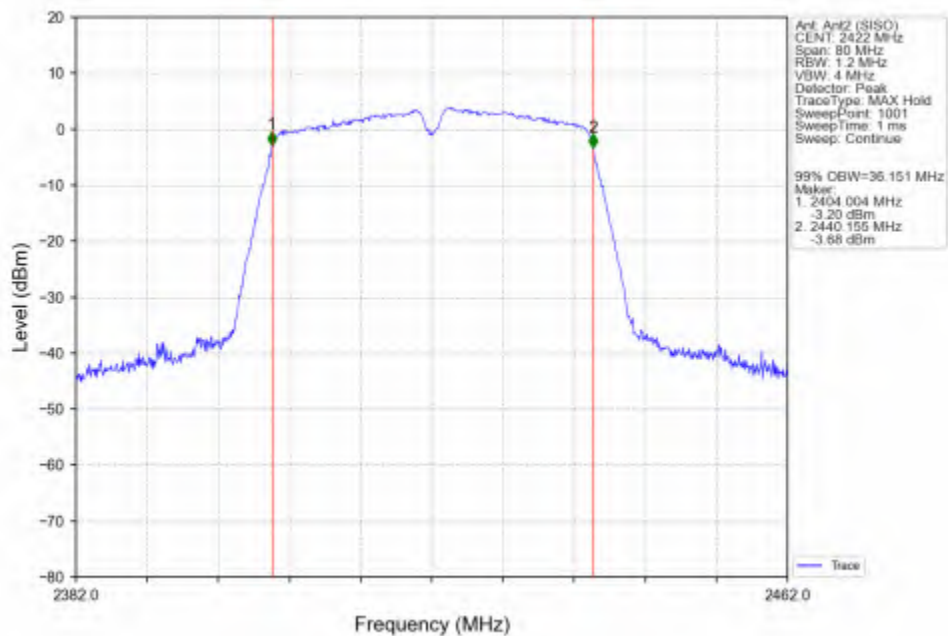


FCC ID: 2BLP-G7A1

802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV

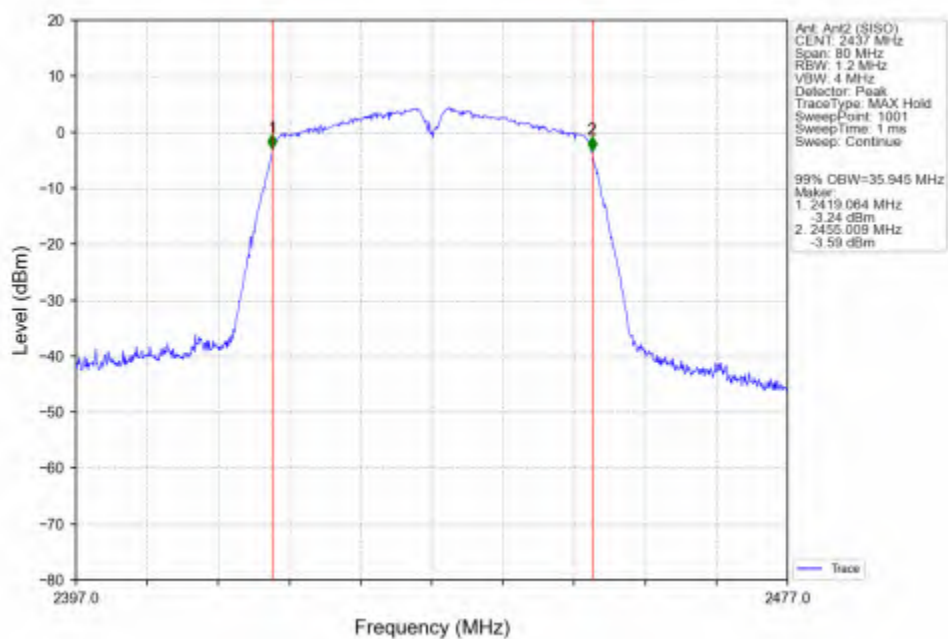


802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV

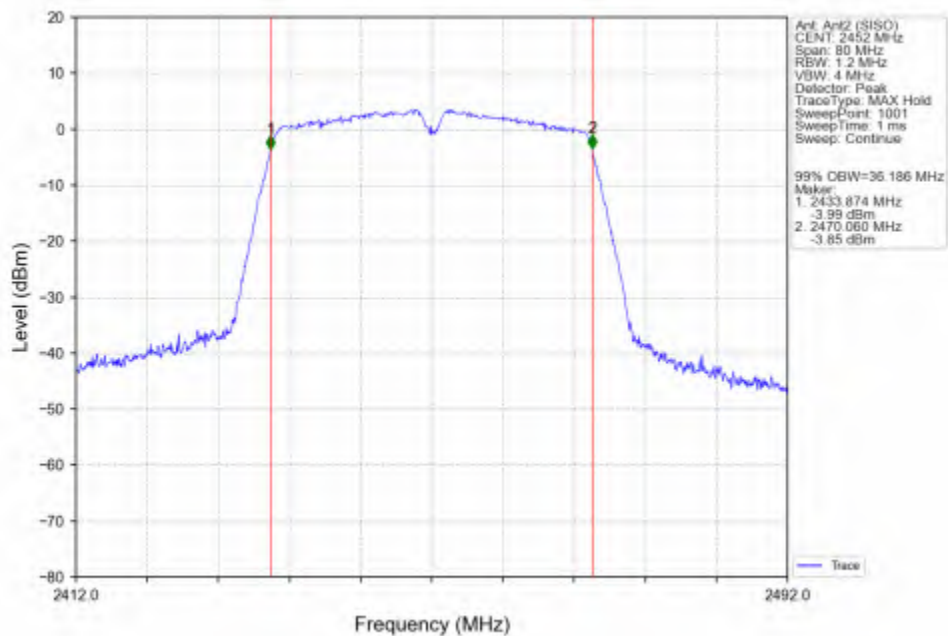


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802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV

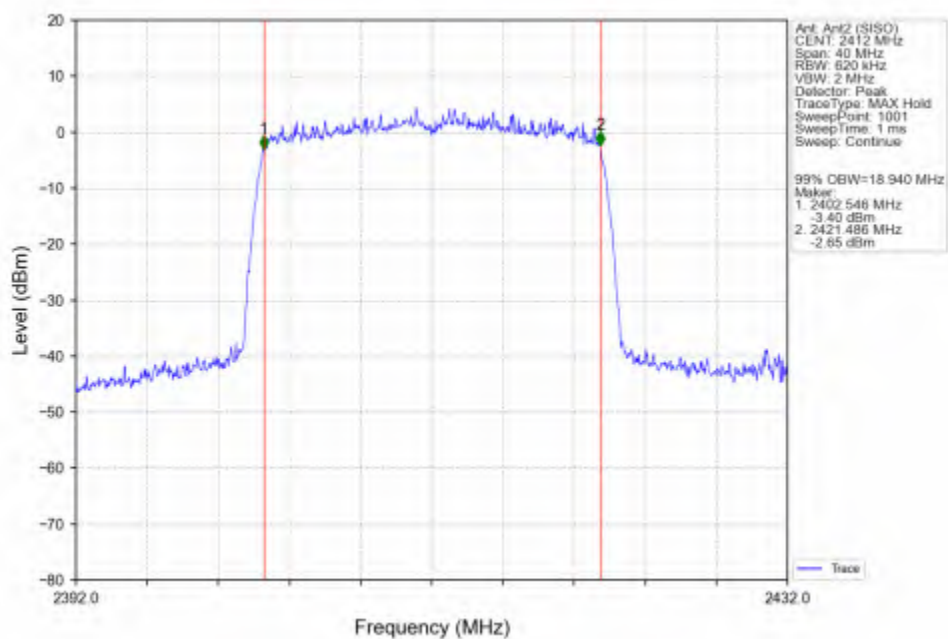


802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV

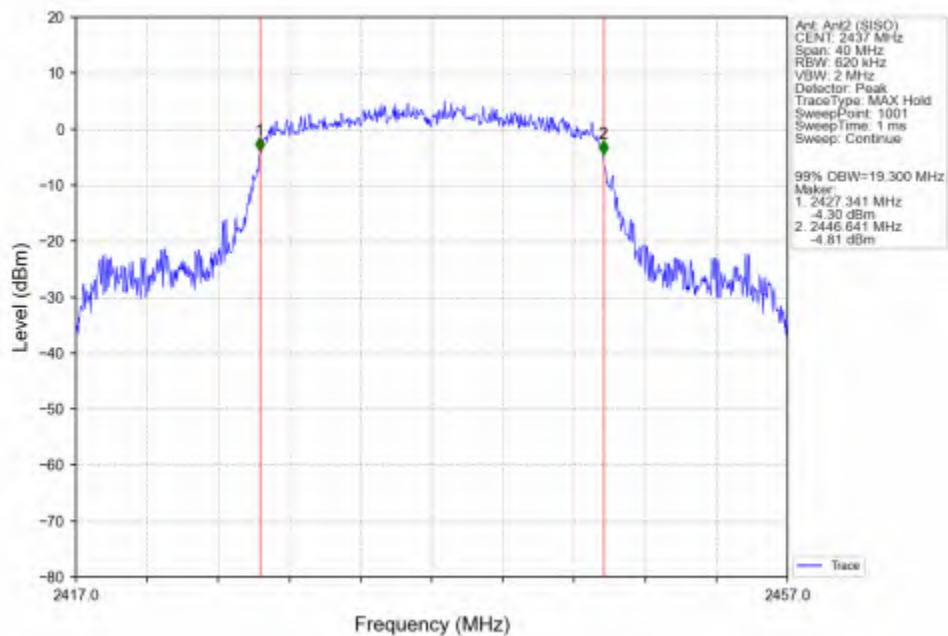


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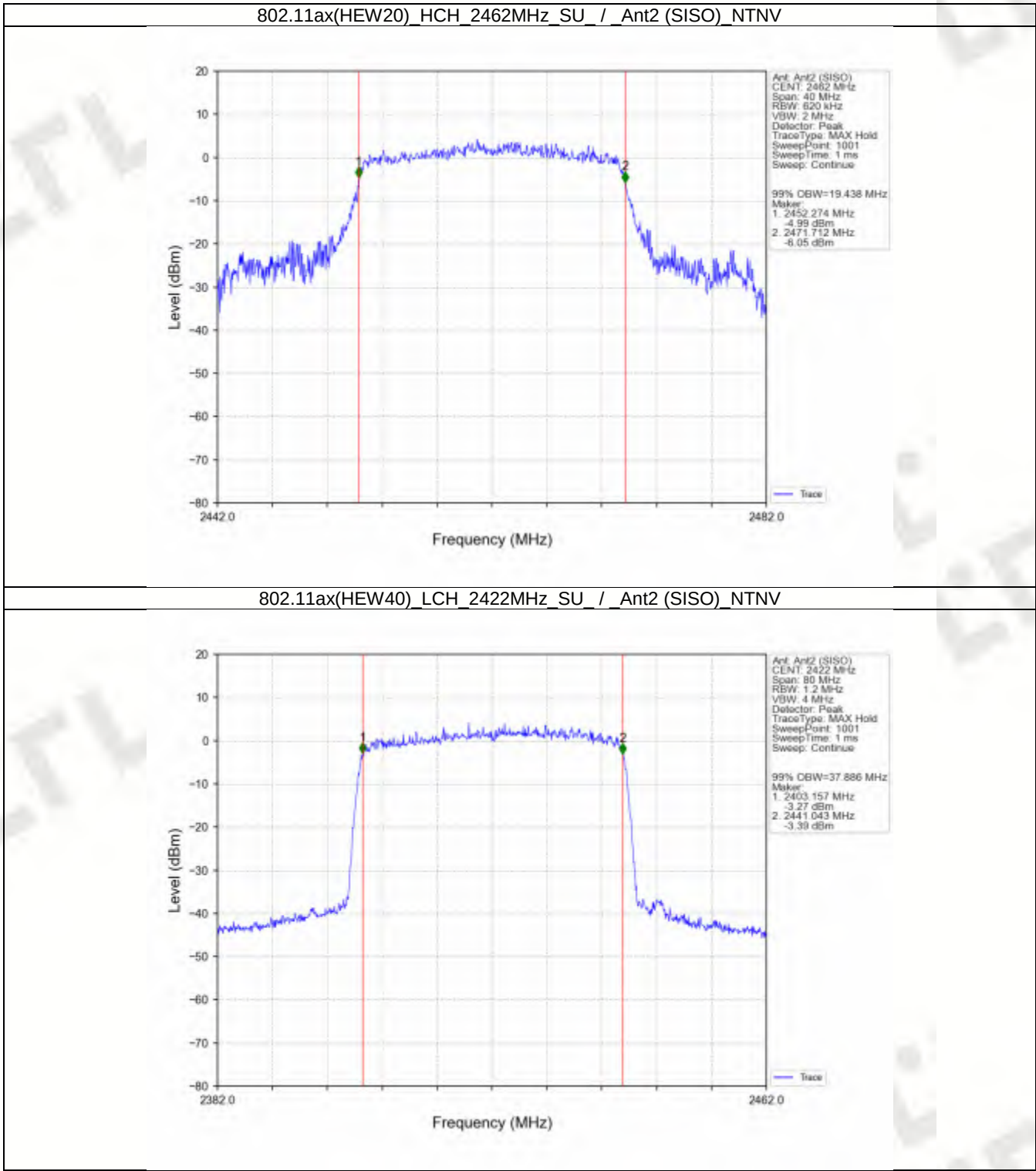
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant2 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_SU / _Ant2 (SISO)_NTNV

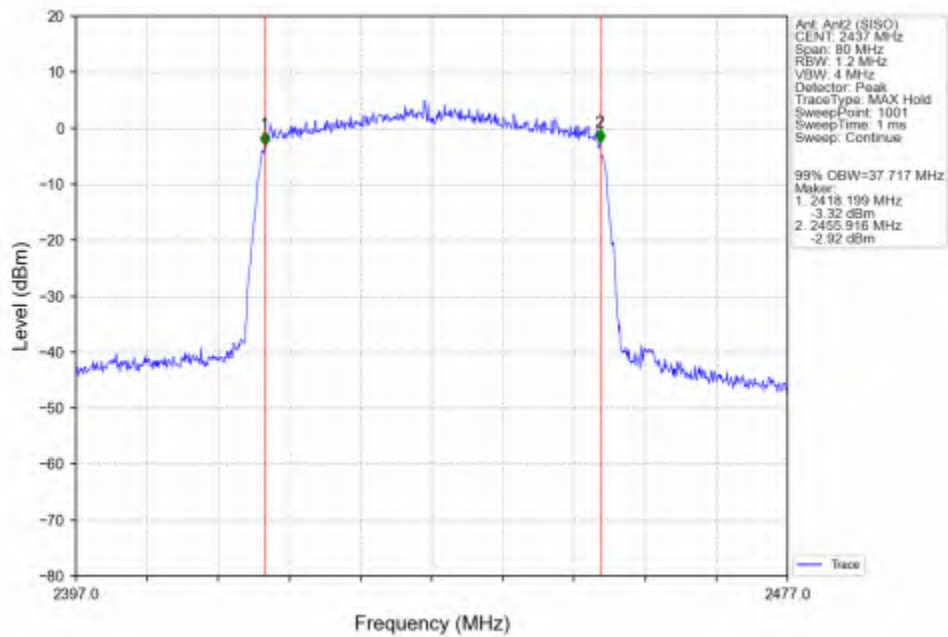


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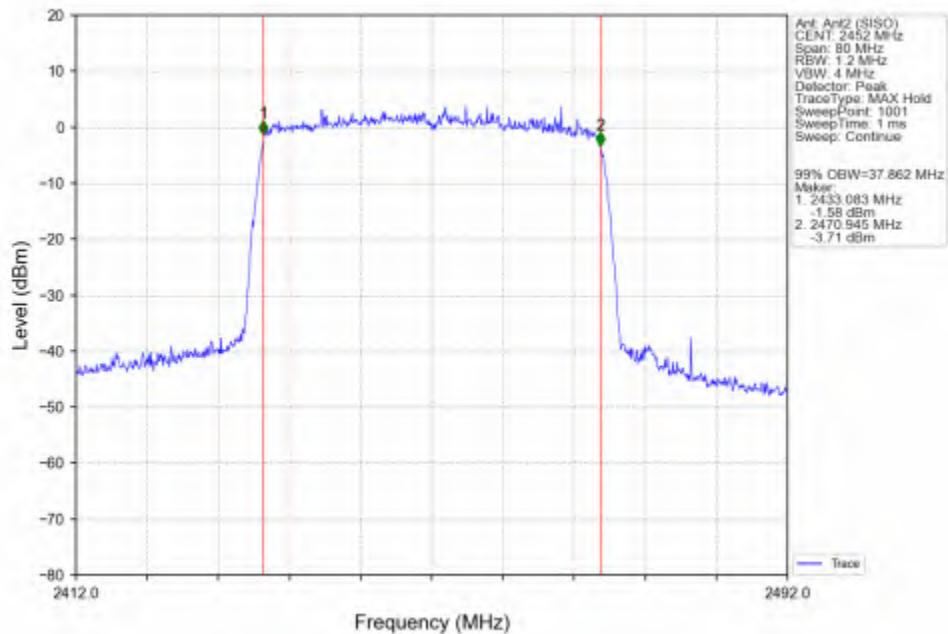


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802.11ax(HEW40) MCH 2437MHz_SU / _Ant2 (SISO)_NTNV

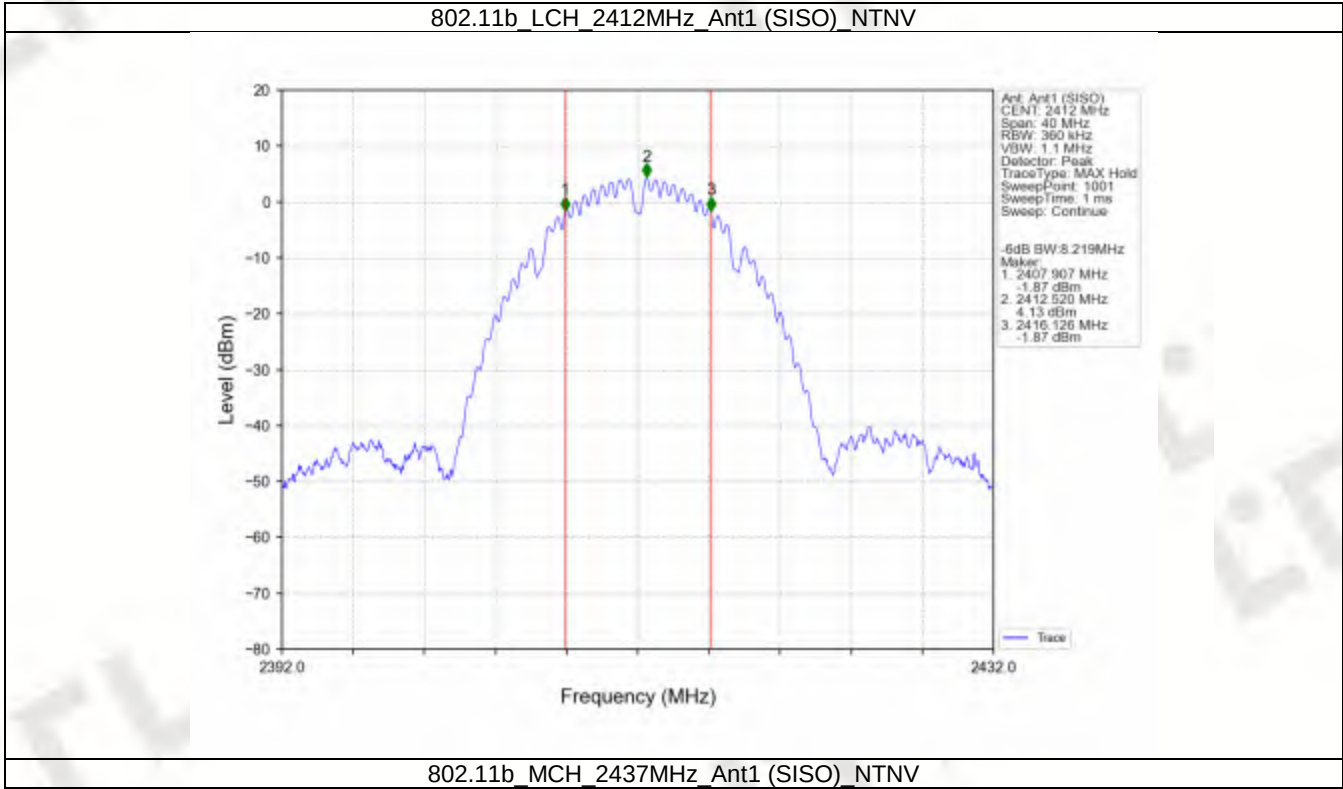


802.11ax(HEW40) HCH 2452MHz_SU / _Ant2 (SISO)_NTNV

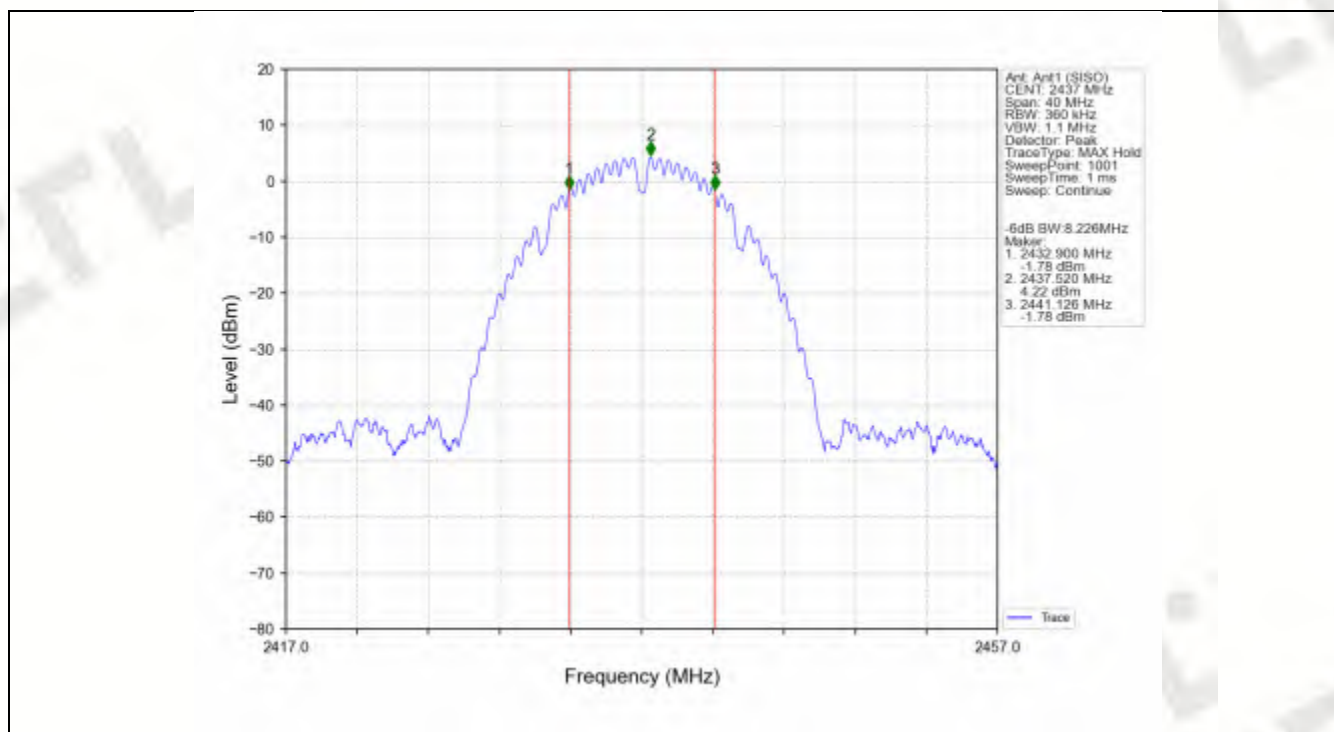


FCC ID: 2BLP-G7A1

2.2.2 6dB BW

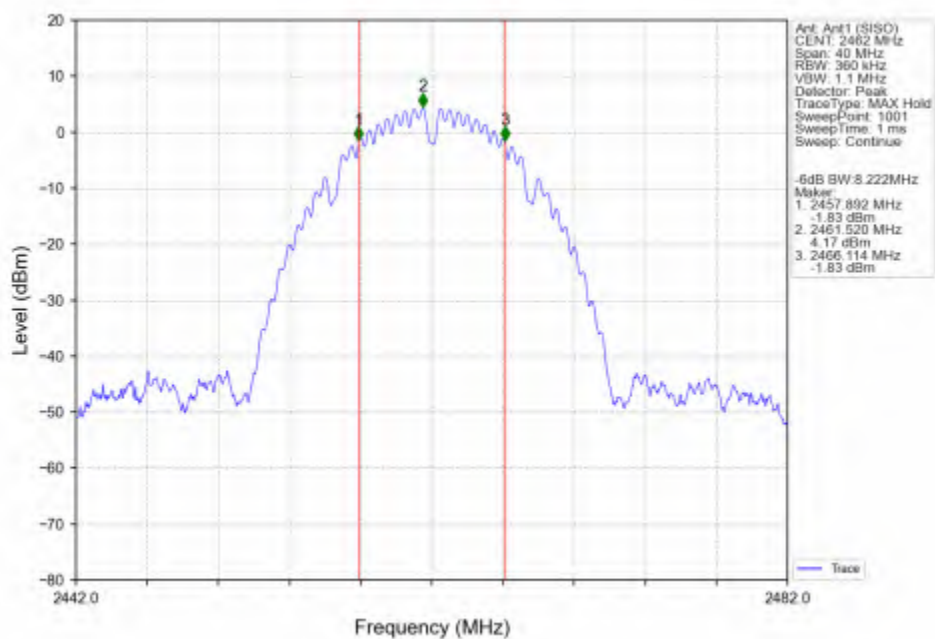


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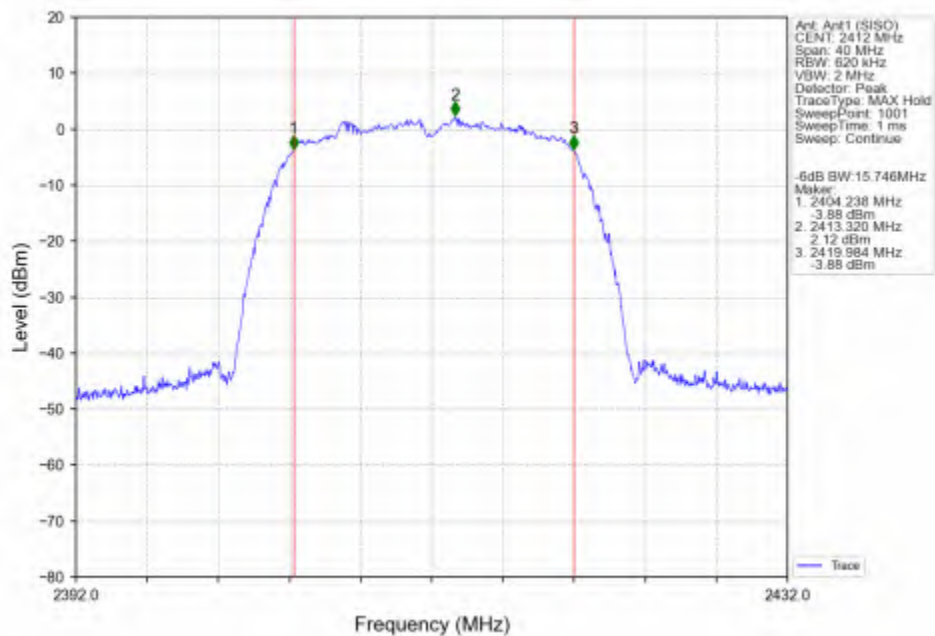


FCC ID: 2BLP-G7A1

802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

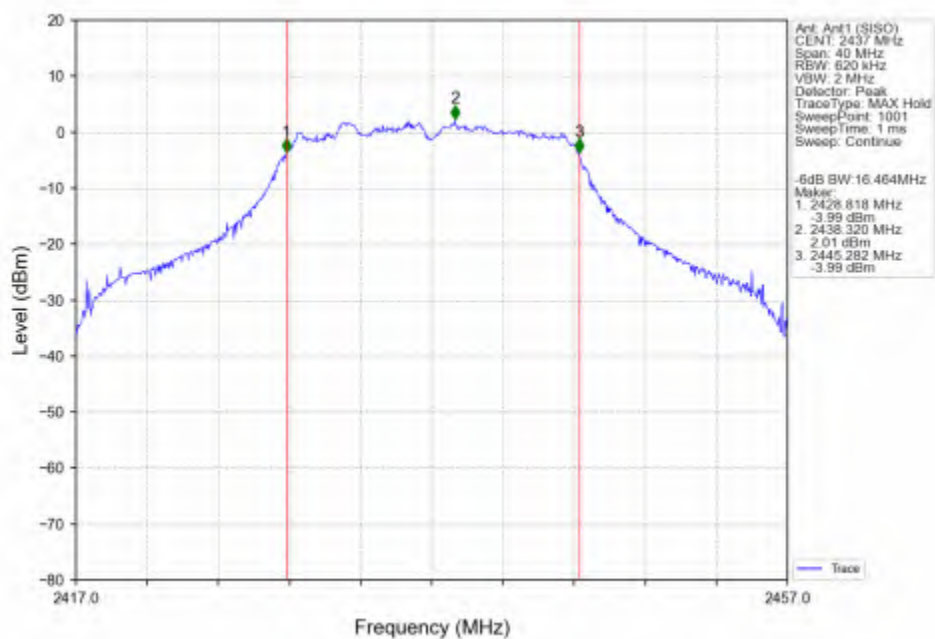


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

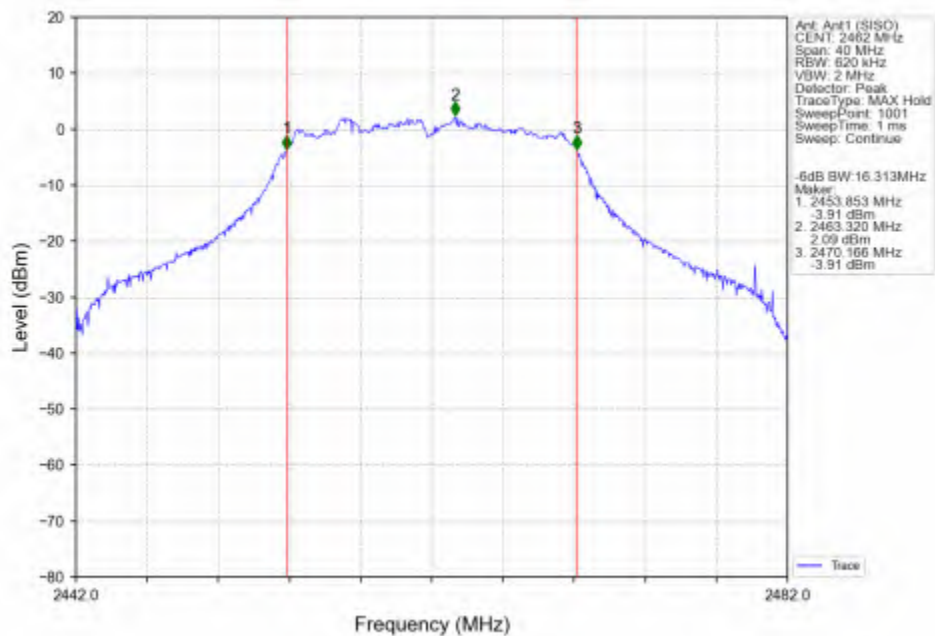


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

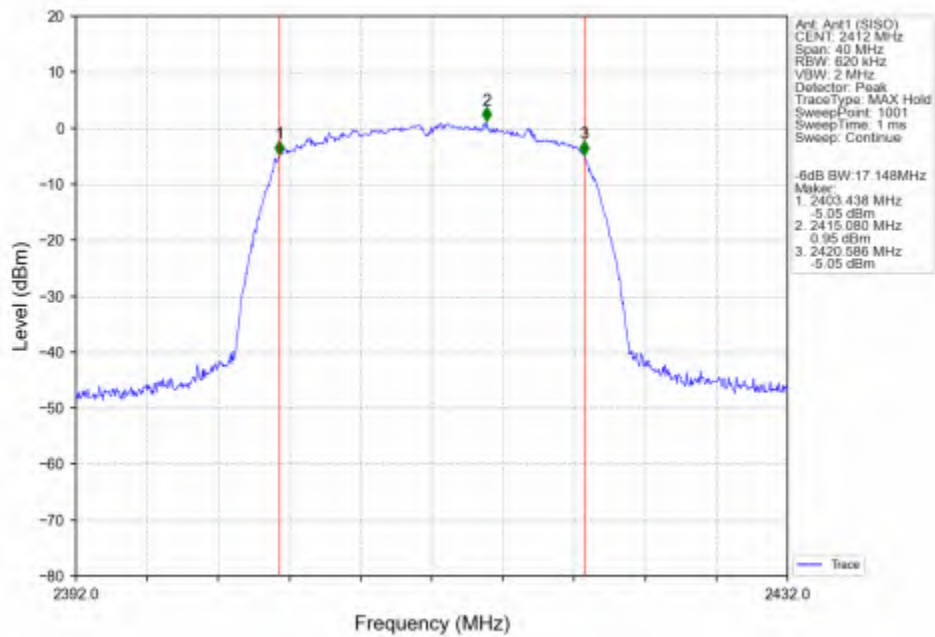


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

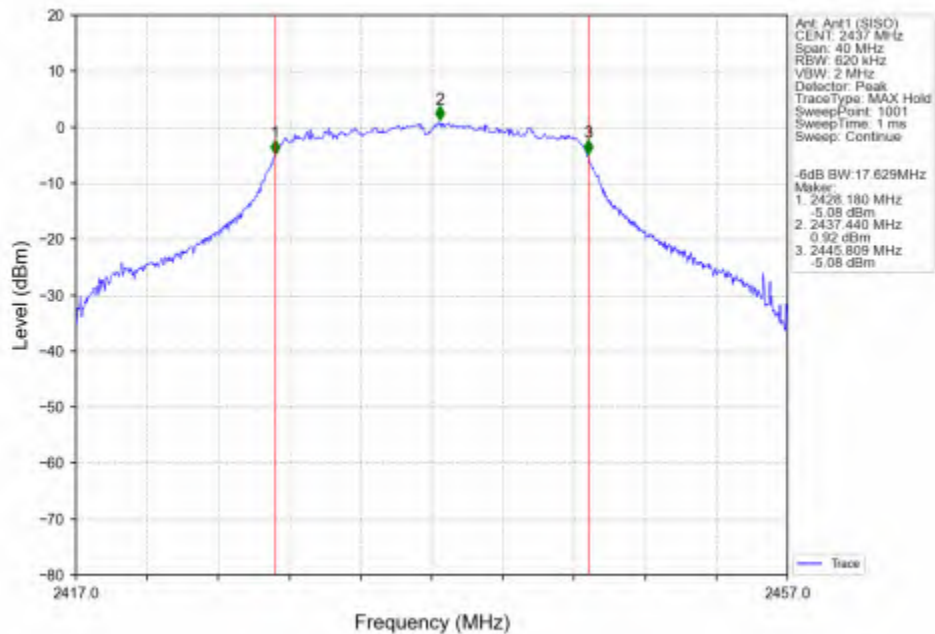


FCC ID: 2BLP-G7A1

802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

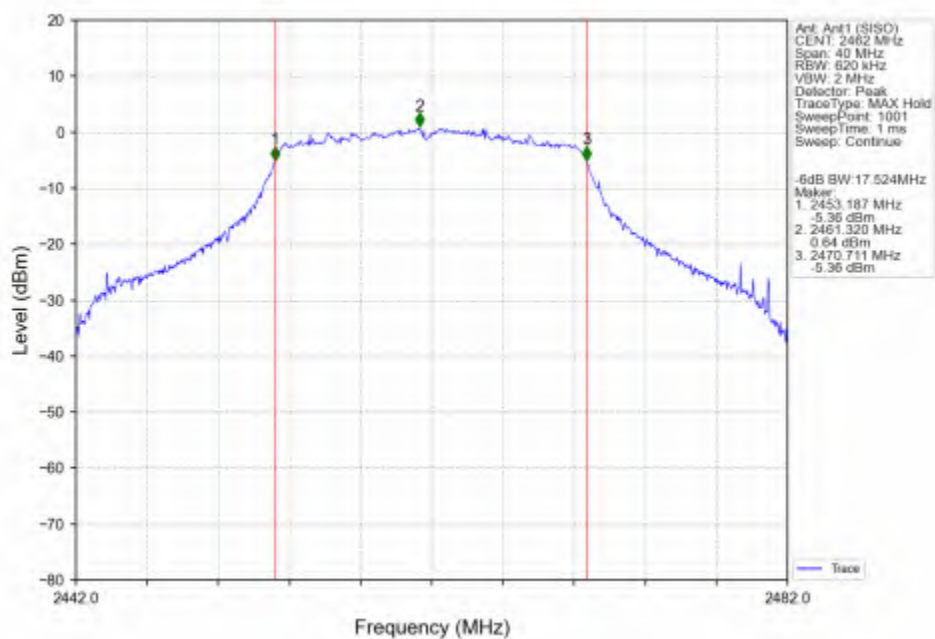


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

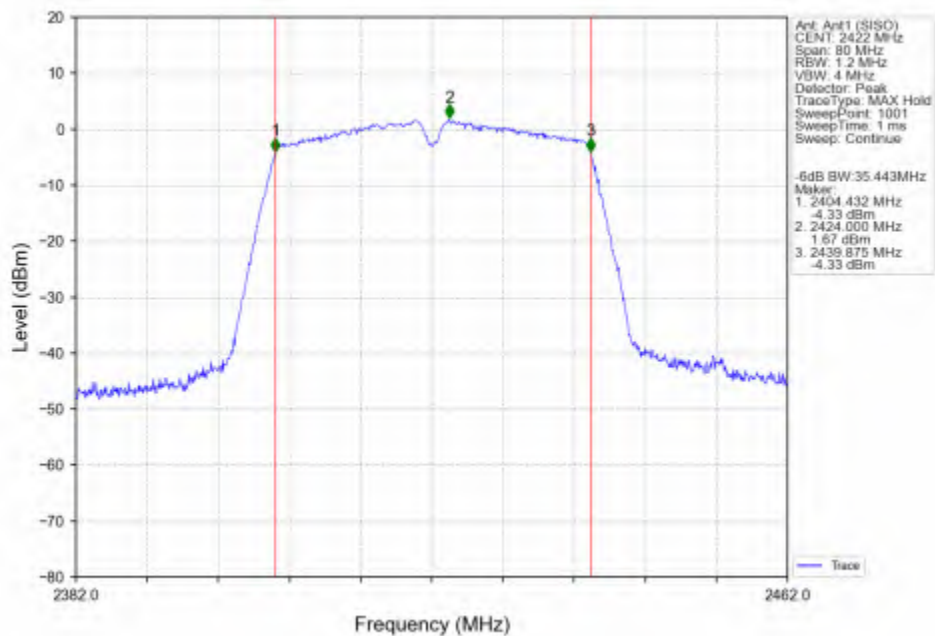


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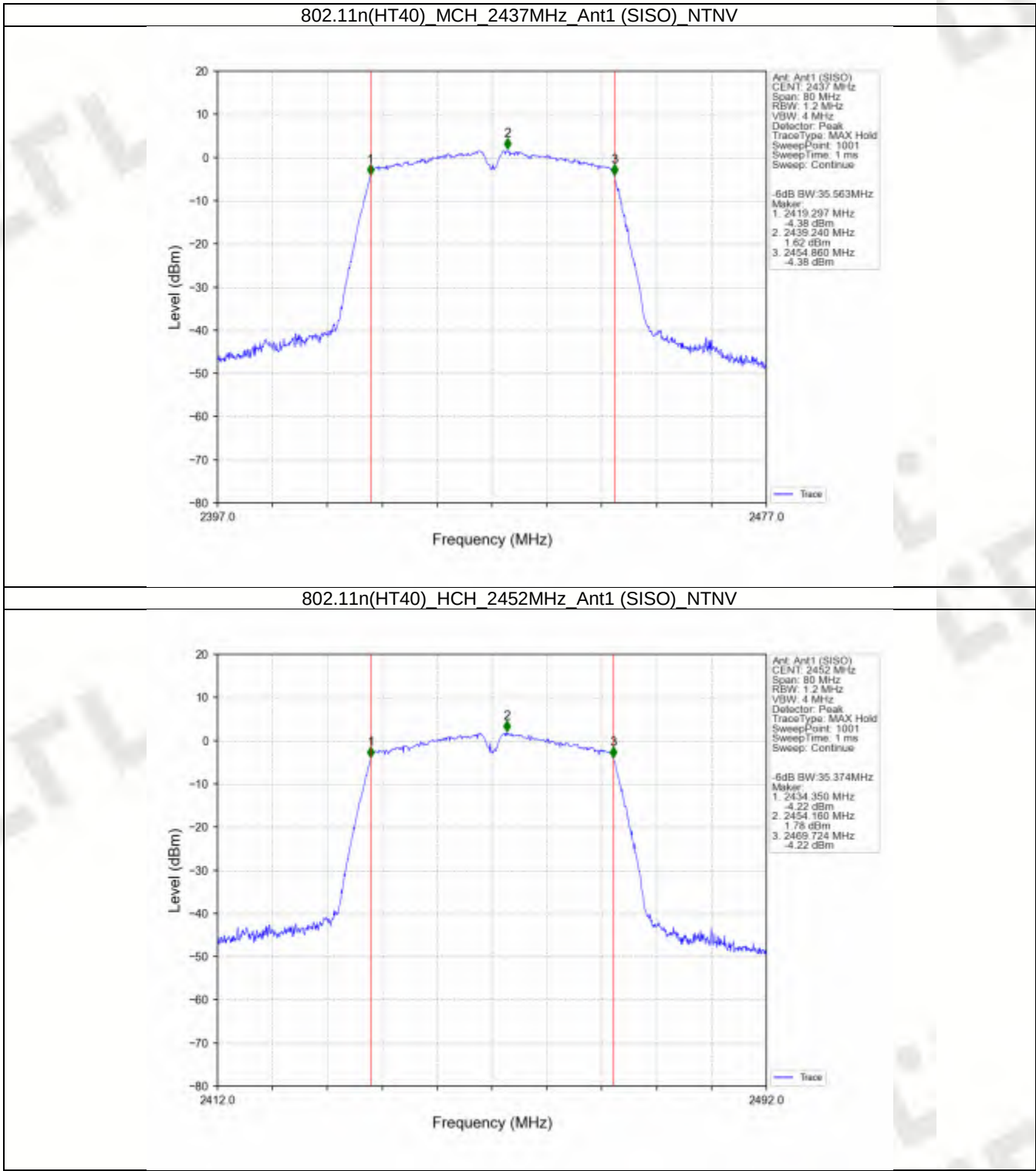
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

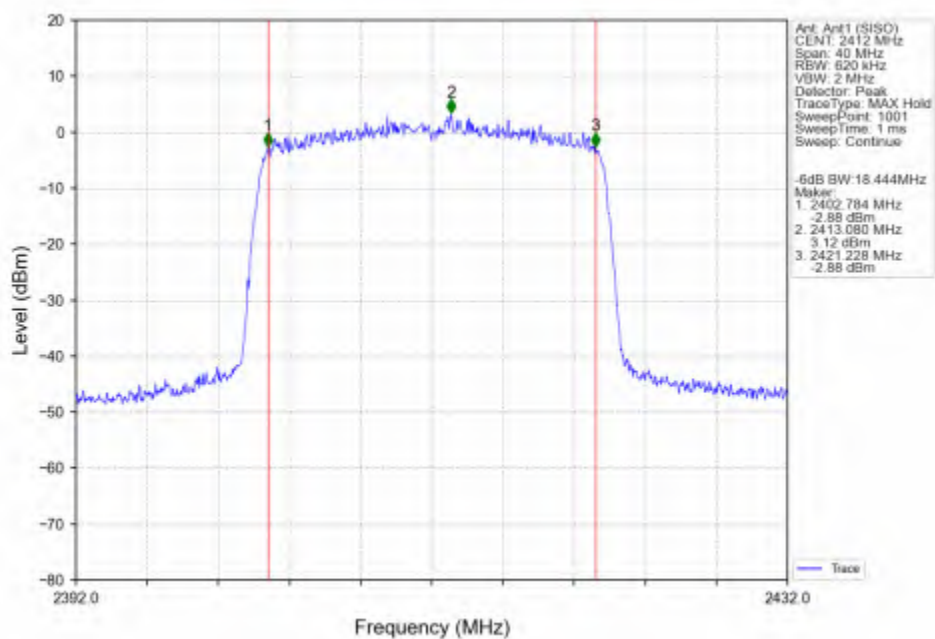


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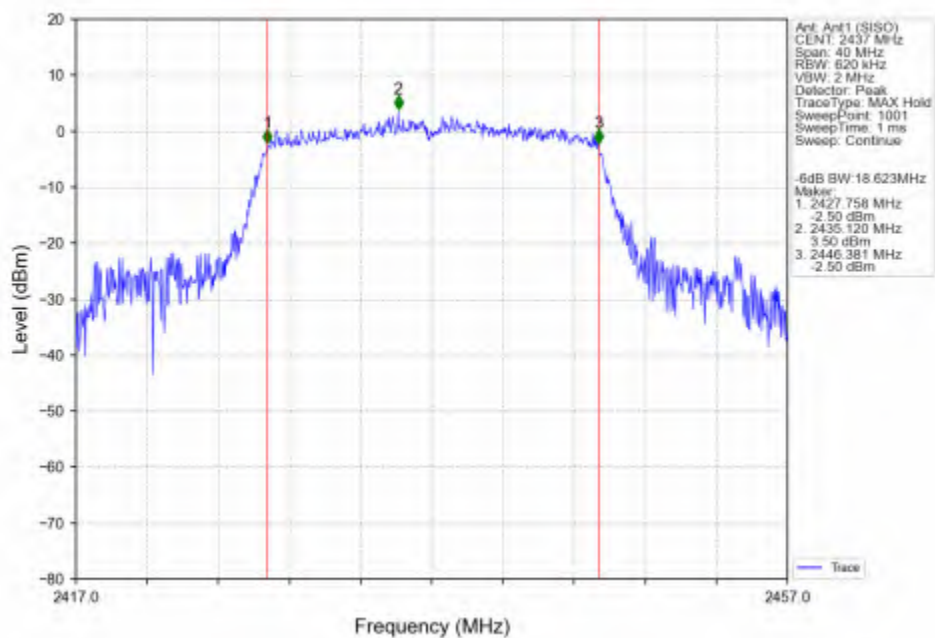


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802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV

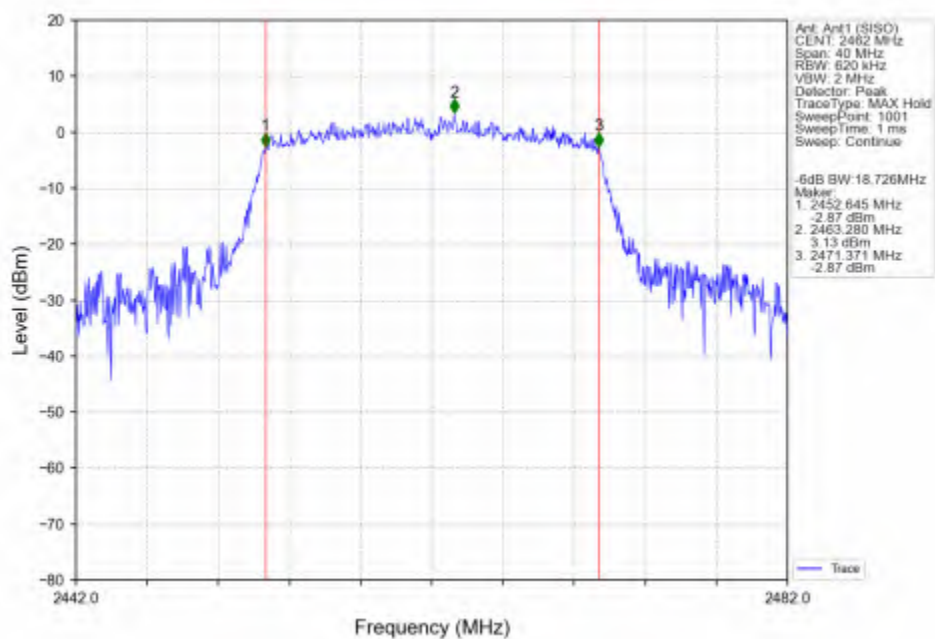


802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV

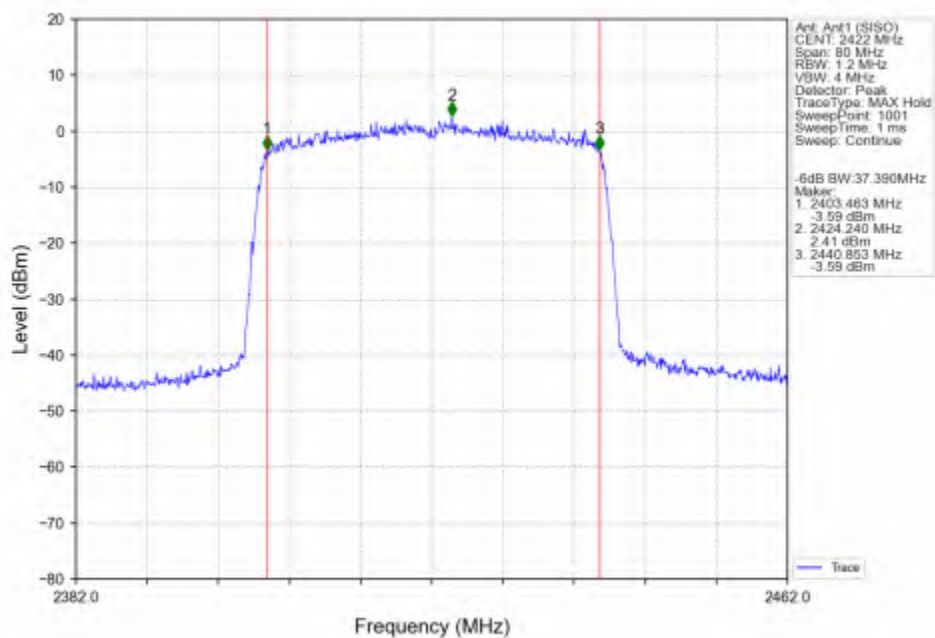


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802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV

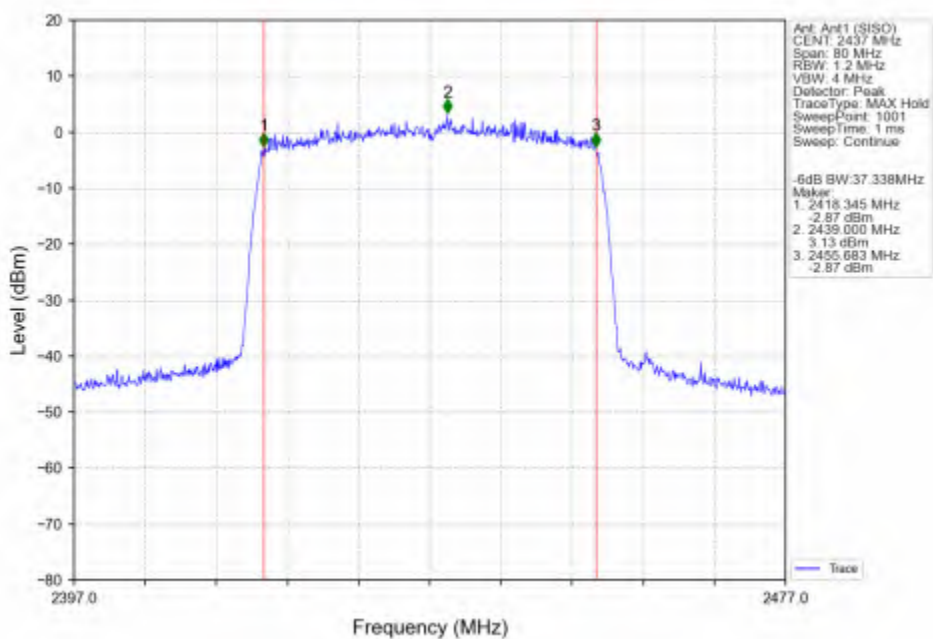


802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV

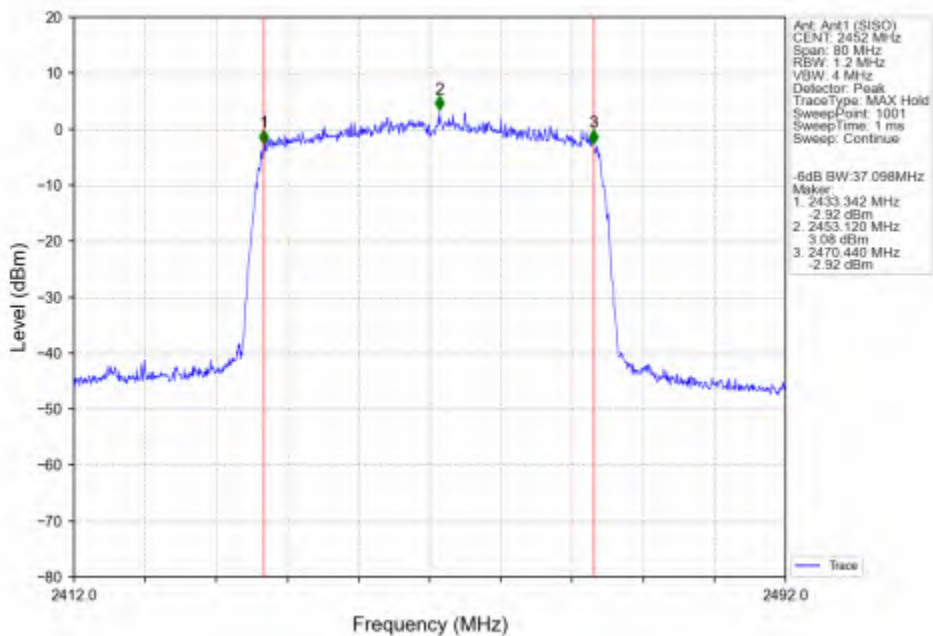


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802.11ax(HEW40) MCH 2437MHz_SU / _Ant1 (SISO)_NTNV

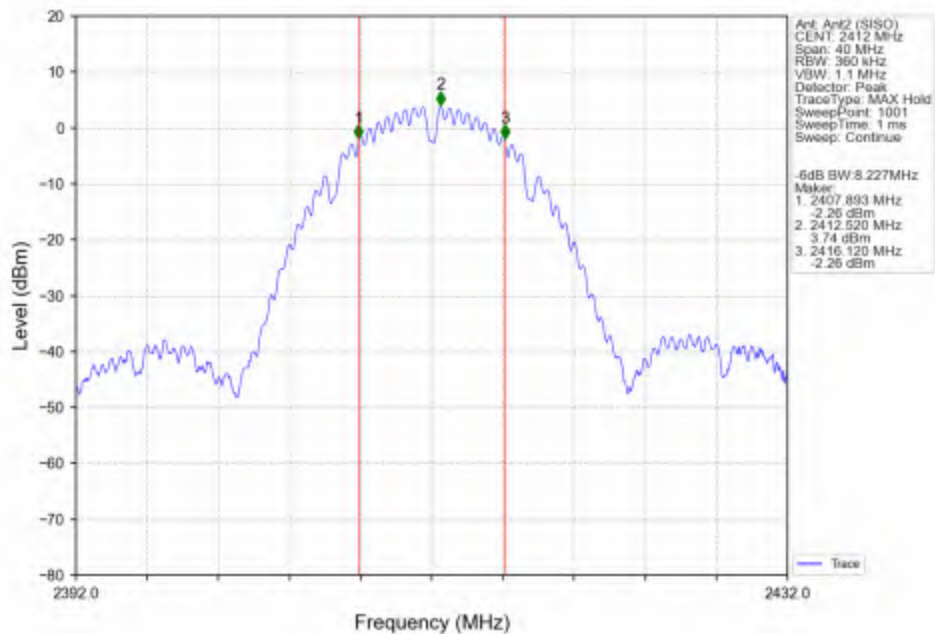


802.11ax(HEW40) HCH 2452MHz_SU / _Ant1 (SISO)_NTNV

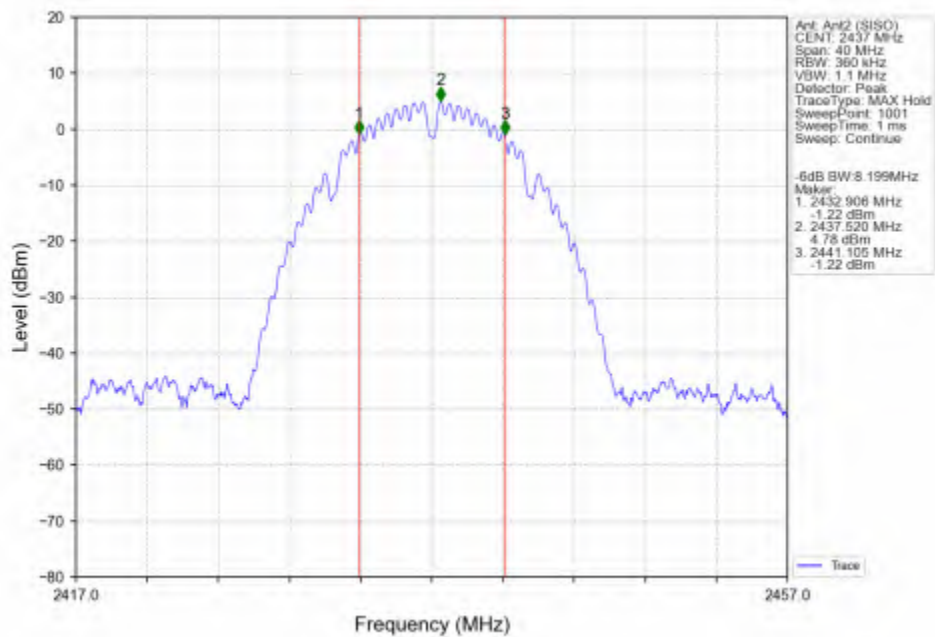


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802.11b LCH 2412MHz Ant2 (SISO) NTN

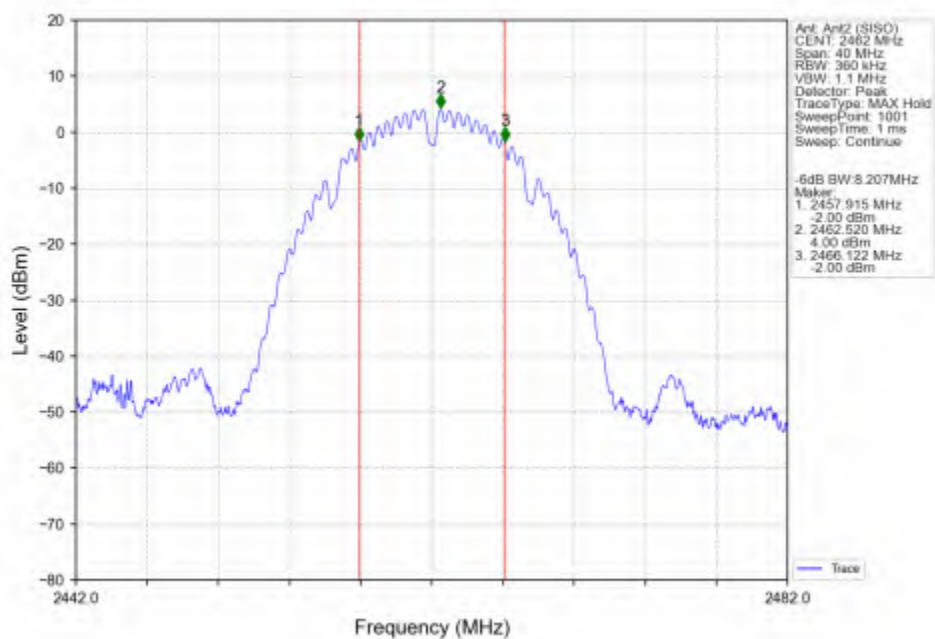


802.11b MCH 2437MHz Ant2 (SISO) NTN

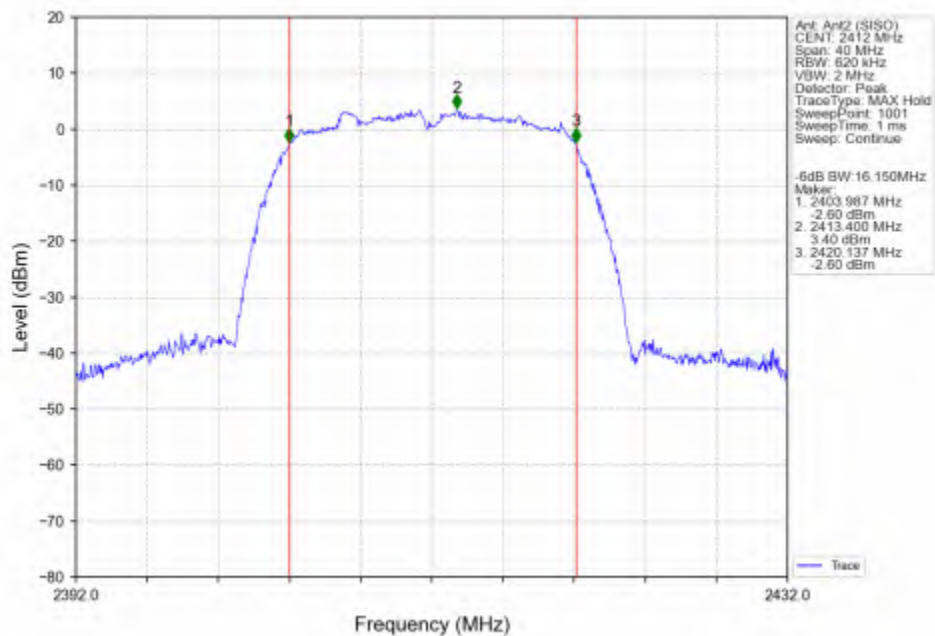


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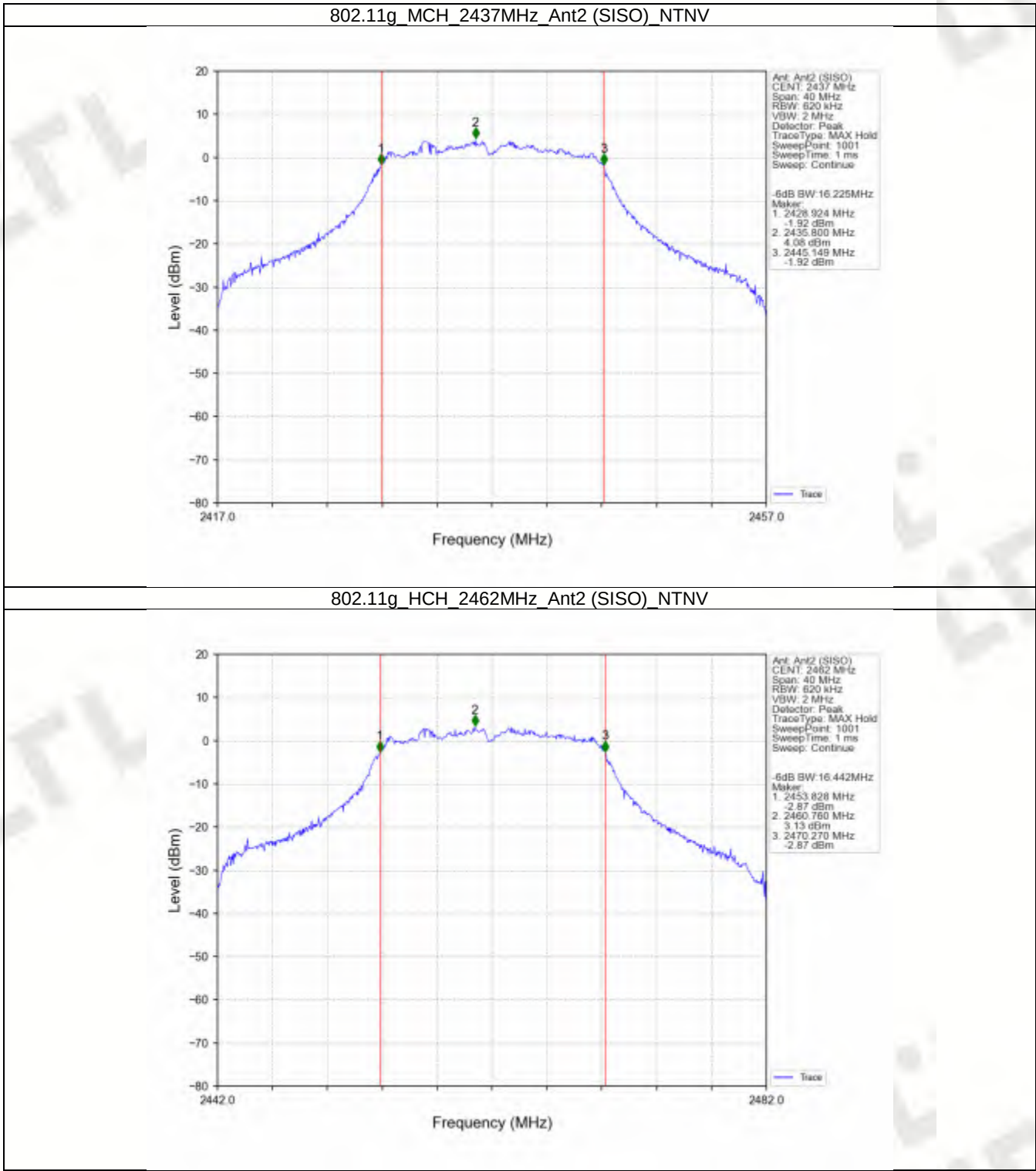
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV

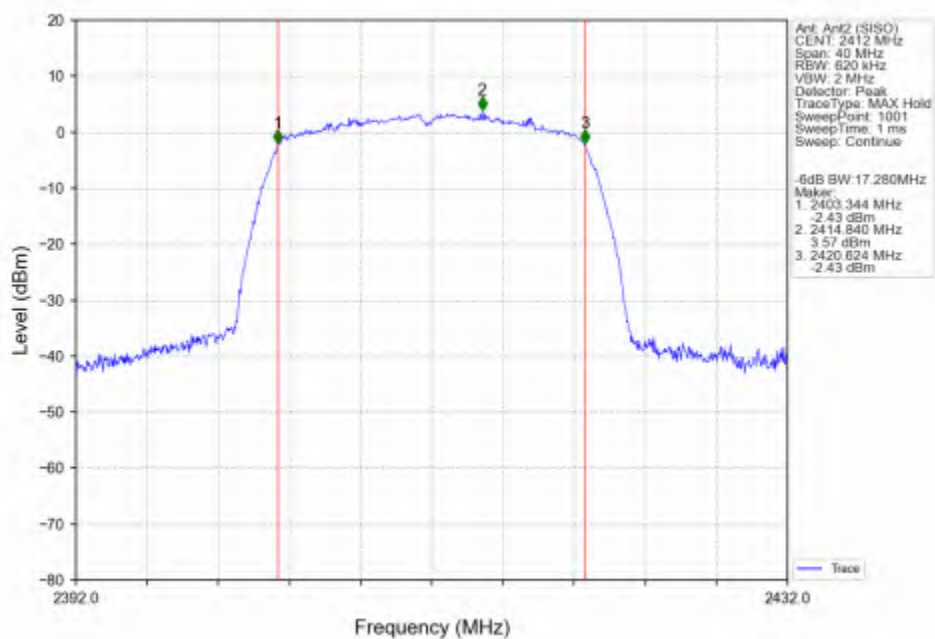


FCC ID: 2BLP-G7A1

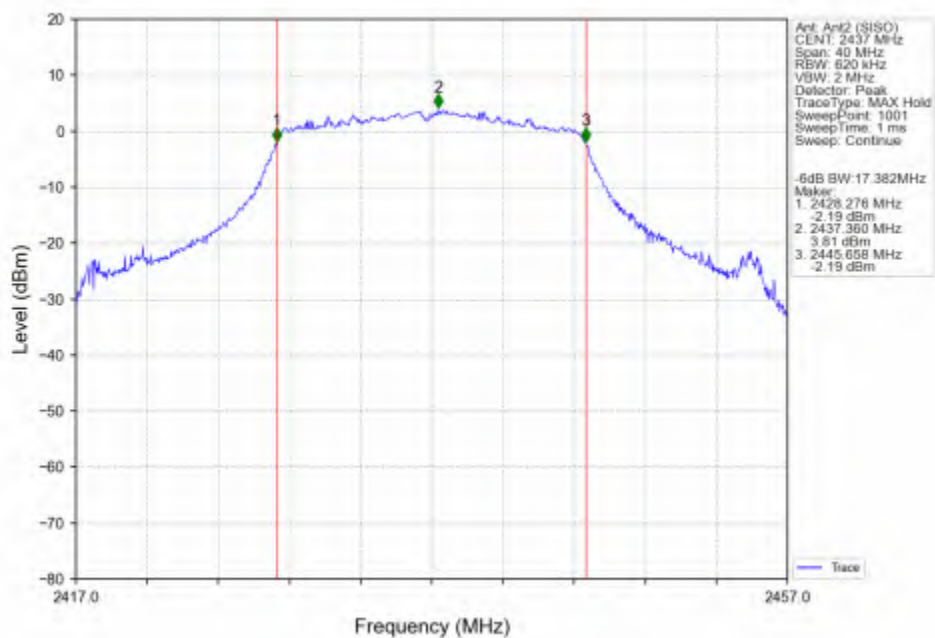


FCC ID: 2BLP-G7A1

802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV

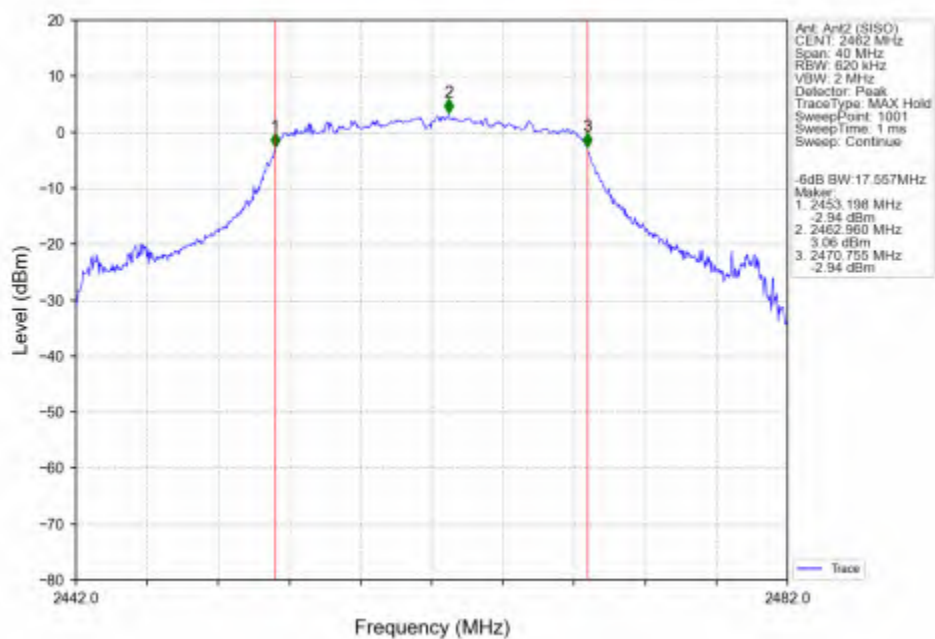


802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV

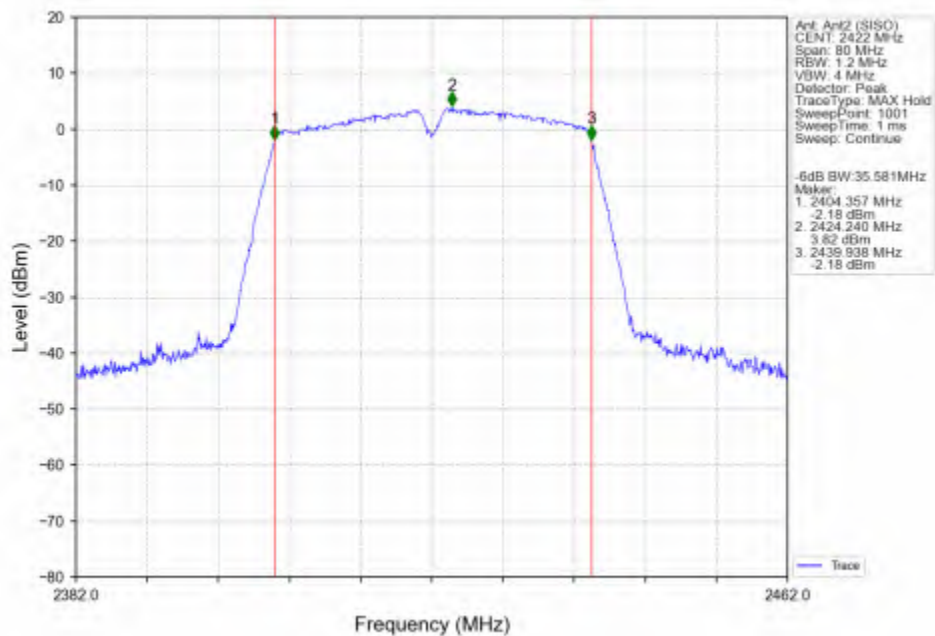


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802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV

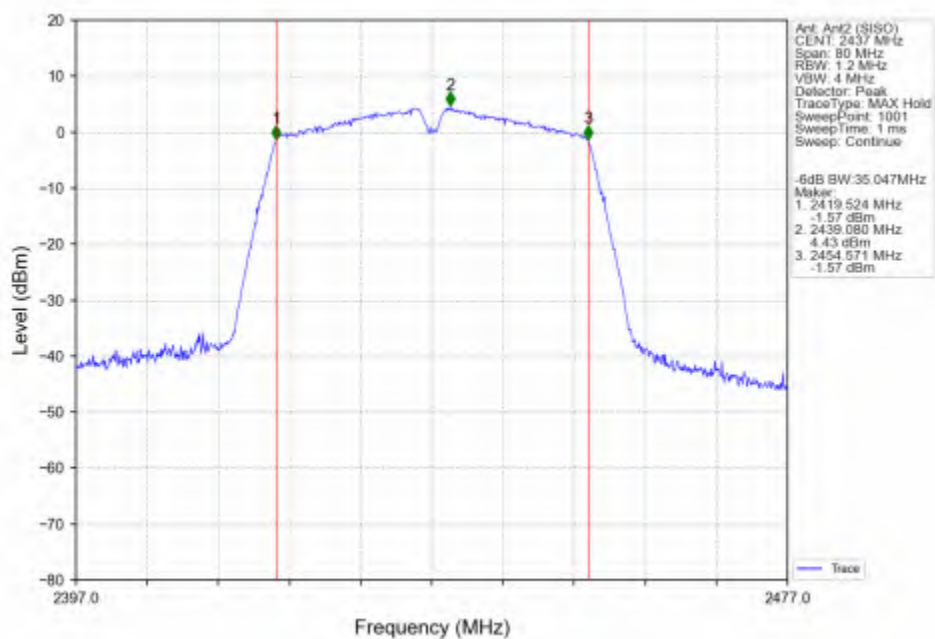


802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV

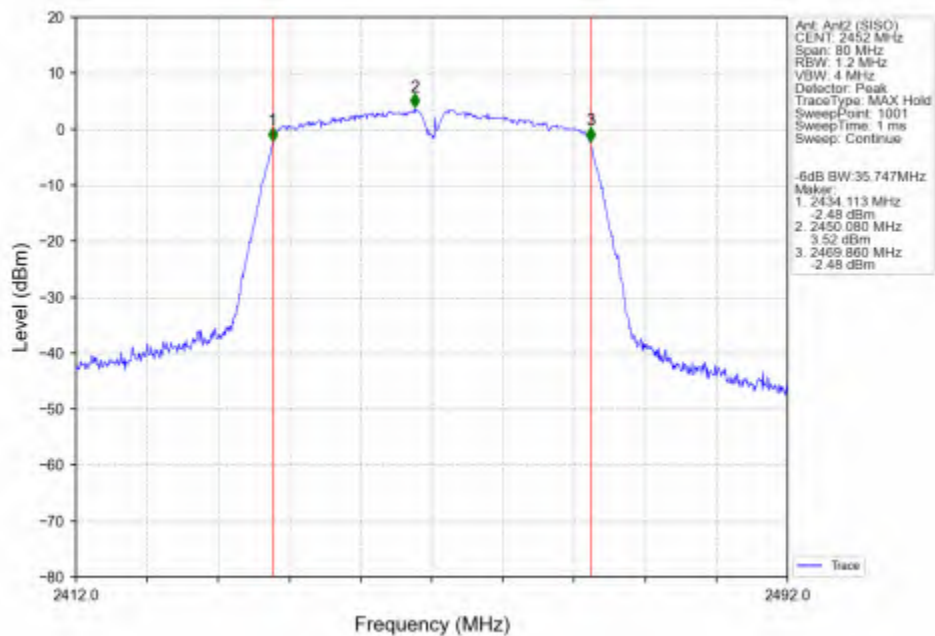


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802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV

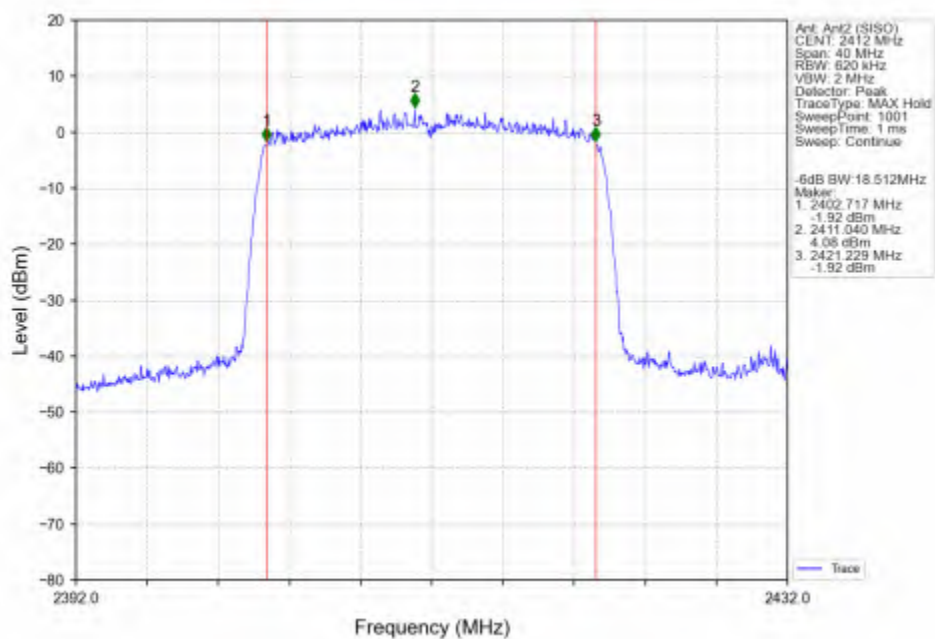


802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV

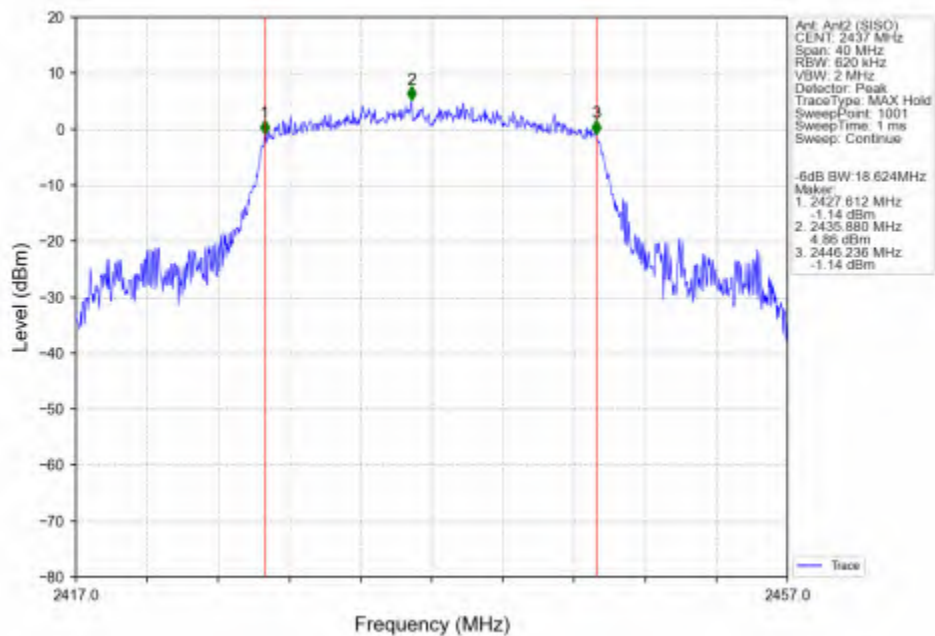


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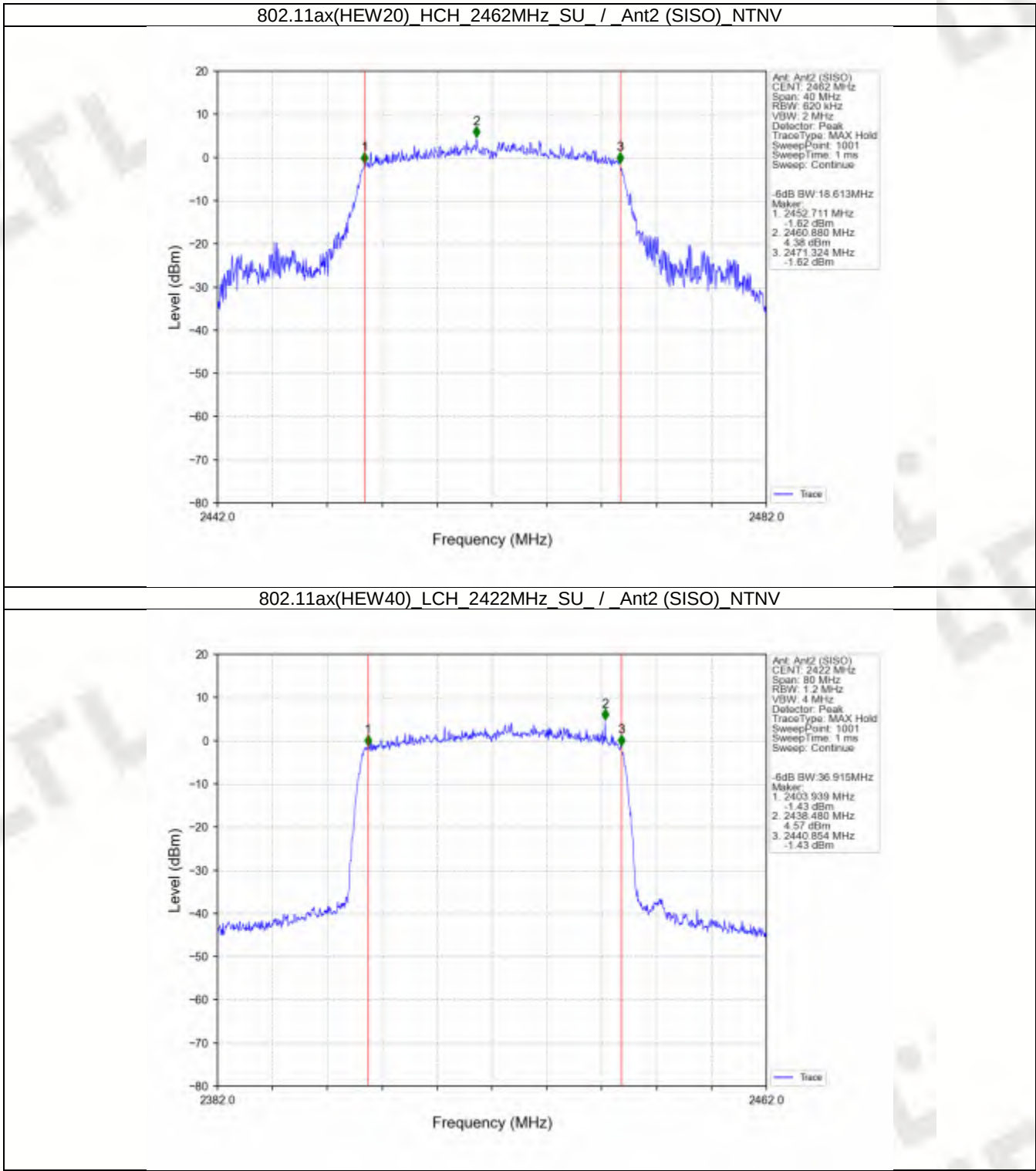
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant2 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant2 (SISO)_NTNV

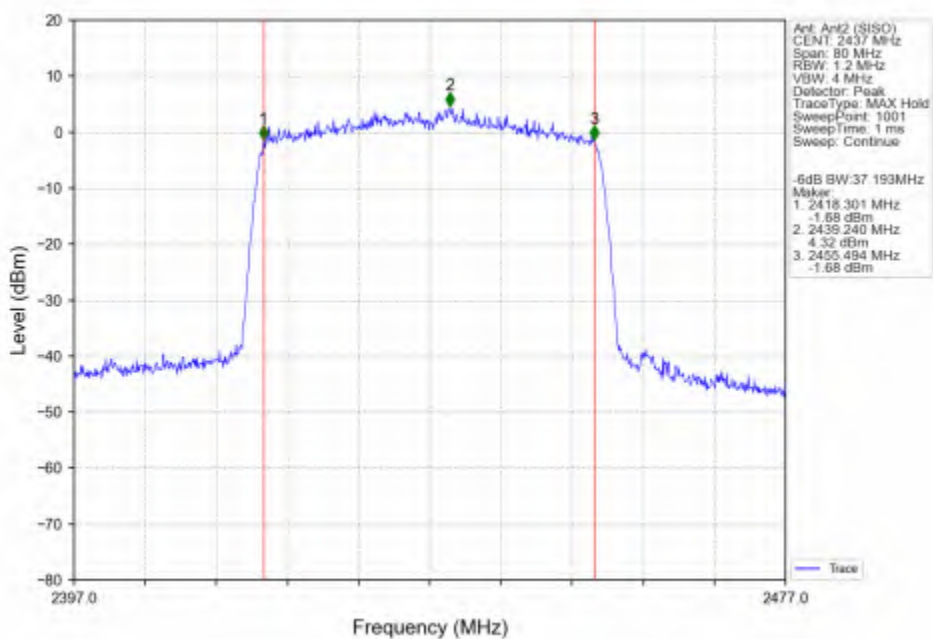


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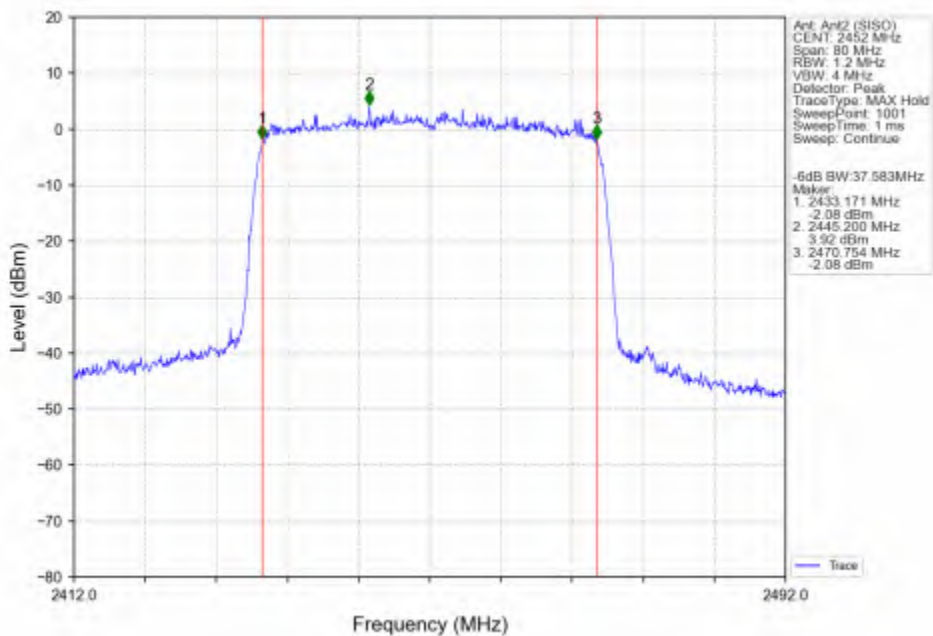


FCC ID: 2BLP-G7A1

802.11ax(HEW40) MCH_2437MHz_SU / _Ant2 (SISO)_NTNV



802.11ax(HEW40) HCH_2452MHz_SU / _Ant2 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)			Verdict
					ANT1	ANT2	Limit	
802.11b	SISO	2412	/	/	14.86	14.01	<=30	Pass
		2437	/	/	15.45	14.59	<=30	Pass
		2462	/	/	15.45	14.06	<=30	Pass
802.11g	SISO	2412	/	/	16.15	16.29	<=30	Pass
		2437	/	/	16.92	16.96	<=30	Pass
		2462	/	/	16.27	15.92	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	16.56	16.12	<=30	Pass
		2437	/	/	17.08	16.19	<=30	Pass
		2462	/	/	17.04	16.37	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	16.35	15.61	<=30	Pass
		2437	/	/	16.37	15.59	<=30	Pass
		2452	/	/	16.40	15.38	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	/	16.83	16.78	<=30	Pass
		2437	SU	/	17.69	17.34	<=30	Pass
		2462	SU	/	17.53	16.65	<=30	Pass
802.11ax (HEW40)	SISO	2422	SU	/	15.87	15.95	<=30	Pass
		2437	SU	/	15.91	15.95	<=30	Pass
		2452	SU	/	15.86	15.58	<=30	Pass
Note1: Antenna Gain: Ant1: 5.75dBi; Ant2: 2.44dBi;								

FCC ID: 2BLP-G7A1

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

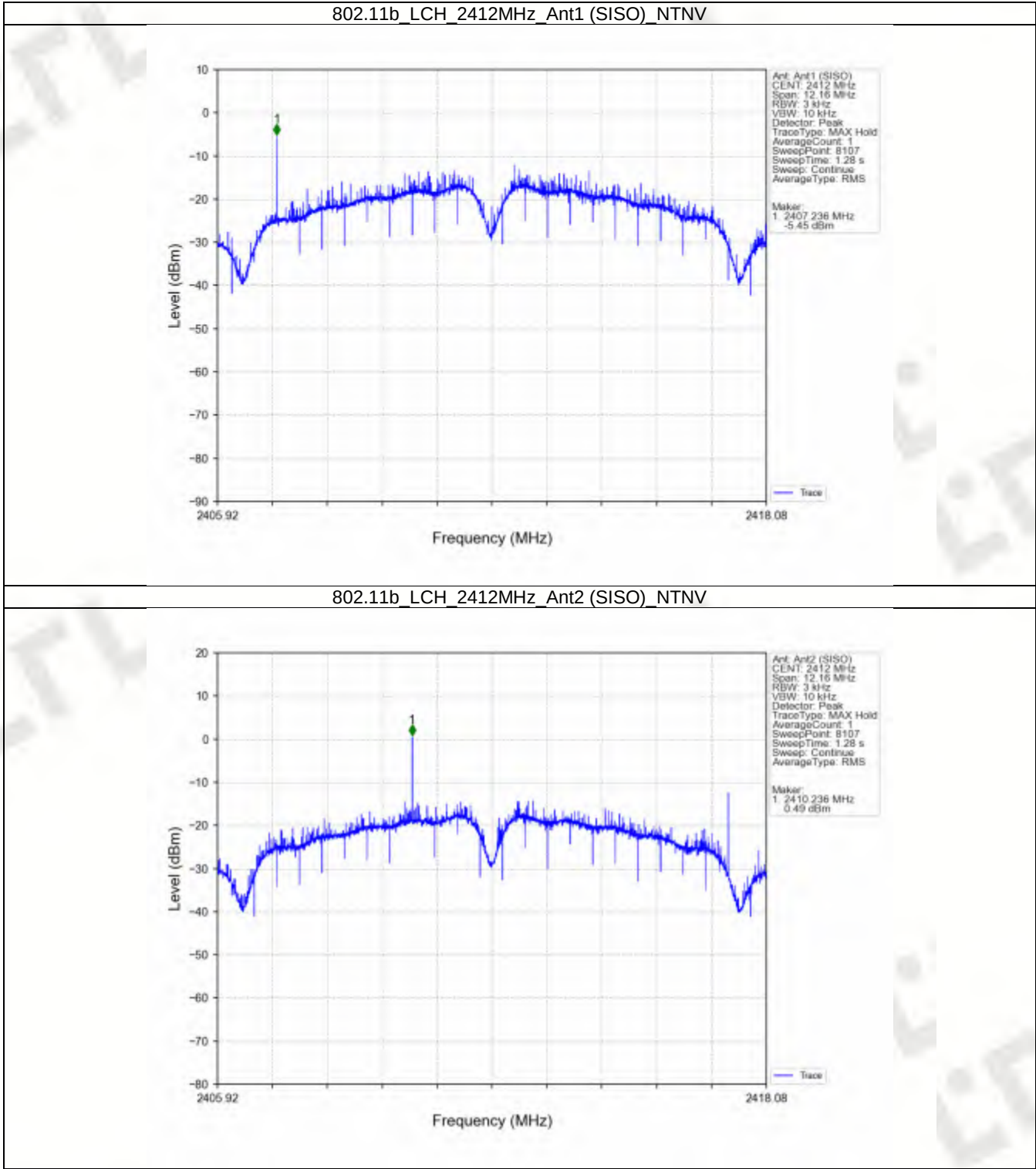
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm)			Verdict
					ANT1	ANT2	Limit	
802.11b	SISO	2412	/	/	-5.45	0.49	<=8	Pass
		2437	/	/	-11.58	-12.89	<=8	Pass
		2462	/	/	-11.69	-12.93	<=8	Pass
802.11g	SISO	2412	/	/	-11.34	-11.24	<=8	Pass
		2437	/	/	-10.67	5.49	<=8	Pass
		2462	/	/	-10.28	-11.18	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-17.45	-16.77	<=8	Pass
		2437	/	/	-17.50	-17.92	<=8	Pass
		2462	/	/	-17.13	-16.94	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-20.57	-20.88	<=8	Pass
		2437	/	/	-19.83	-20.74	<=8	Pass
		2452	/	/	-20.28	-21.63	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	/	-16.63	-18.61	<=8	Pass
		2437	SU	/	-16.40	-18.07	<=8	Pass
		2462	SU	/	-16.75	-18.22	<=8	Pass
802.11ax (HEW40)	SISO	2422	SU	/	-20.79	-21.59	<=8	Pass
		2437	SU	/	-22.85	-21.31	<=8	Pass
		2452	SU	/	-22.55	-21.81	<=8	Pass

Note1: Antenna Gain: Ant1: 5.75dBi; Ant2: 2.44dBi;

FCC ID: 2BLP-G7A1

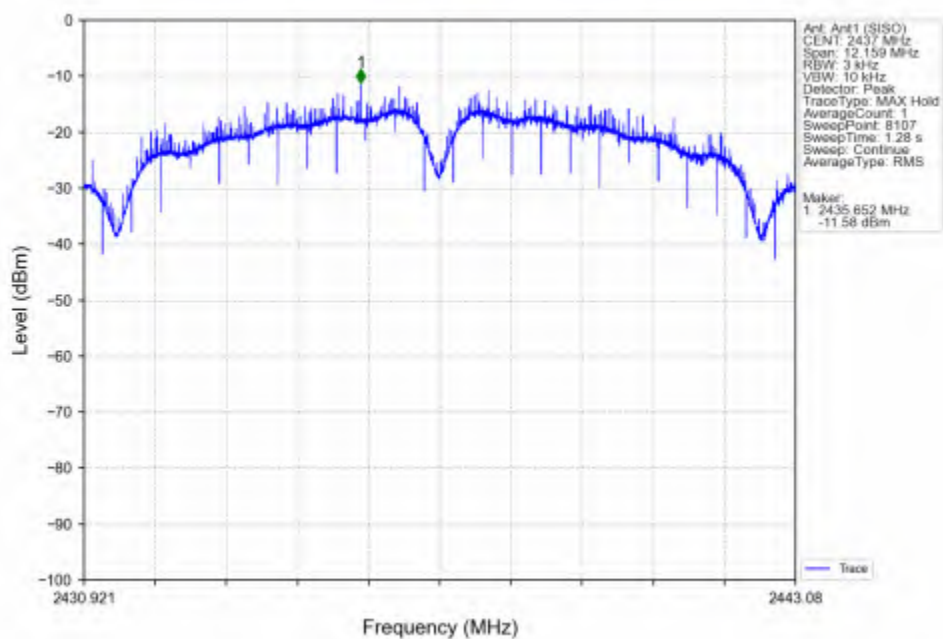
4.2 Test Graph

4.2.1 PSD

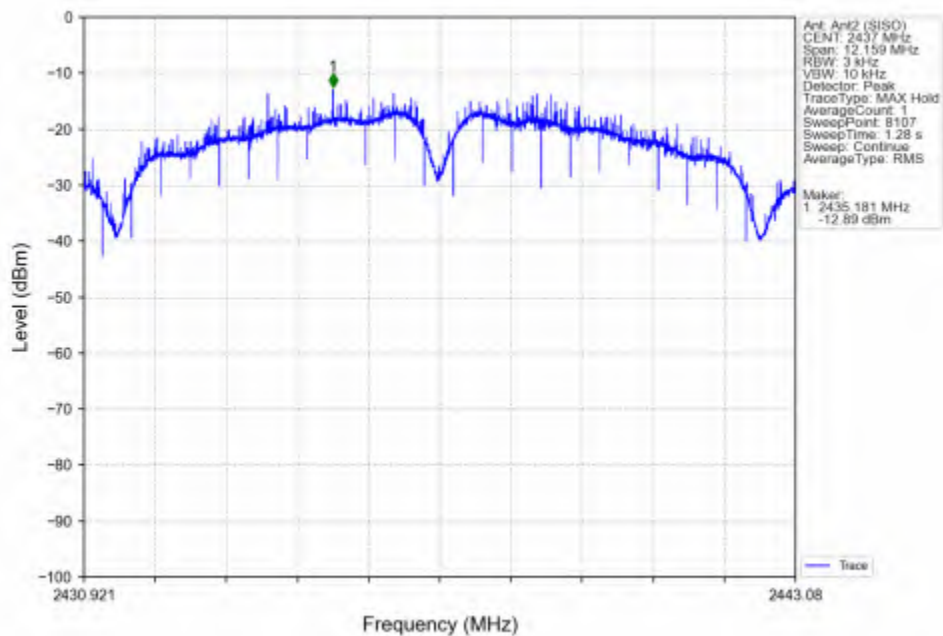


FCC ID: 2BLP-G7A1

802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

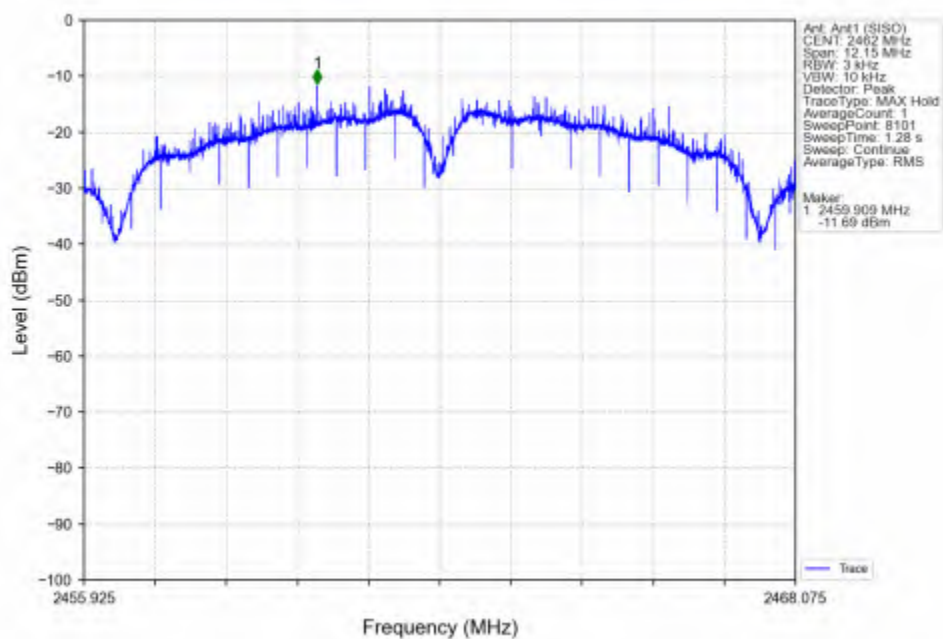


802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

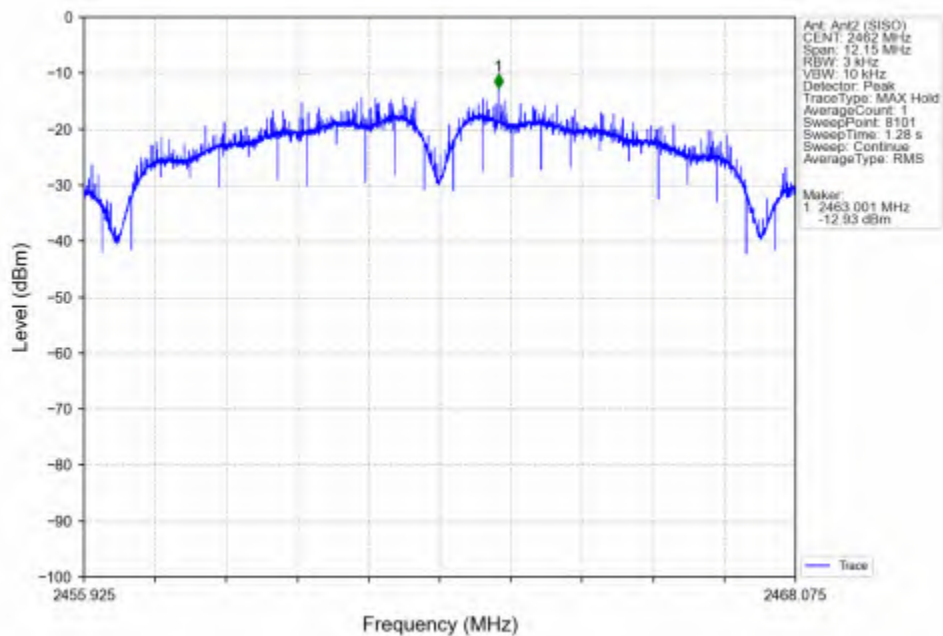


FCC ID: 2BLP-G7A1

802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

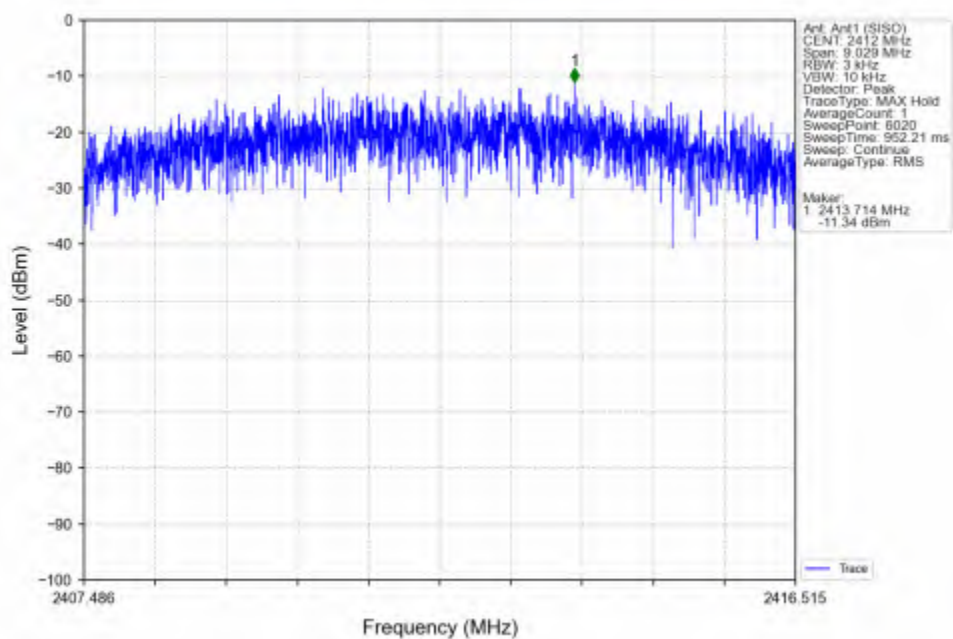


802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

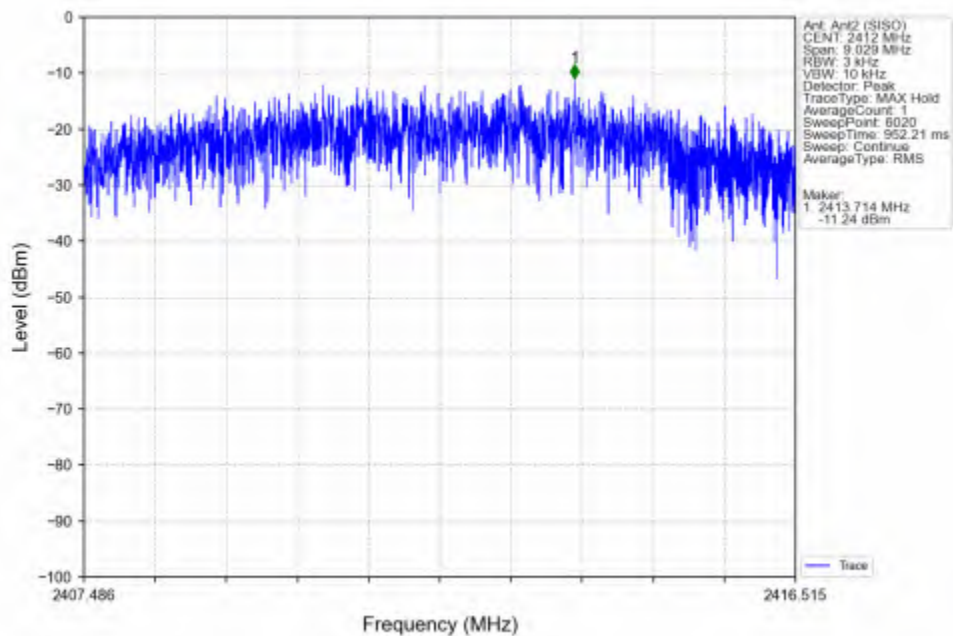


FCC ID: 2BLP-G7A1

802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

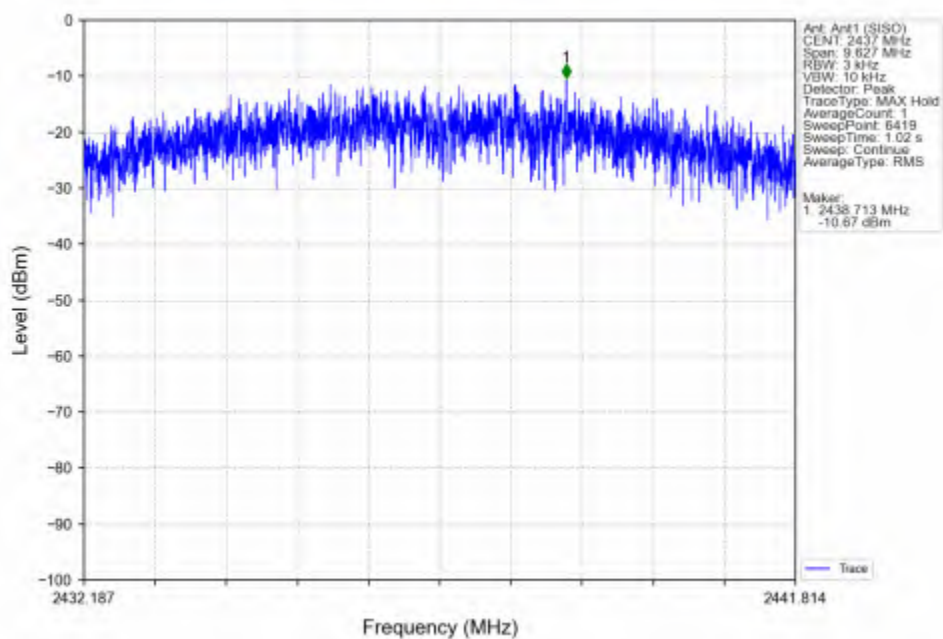


802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV

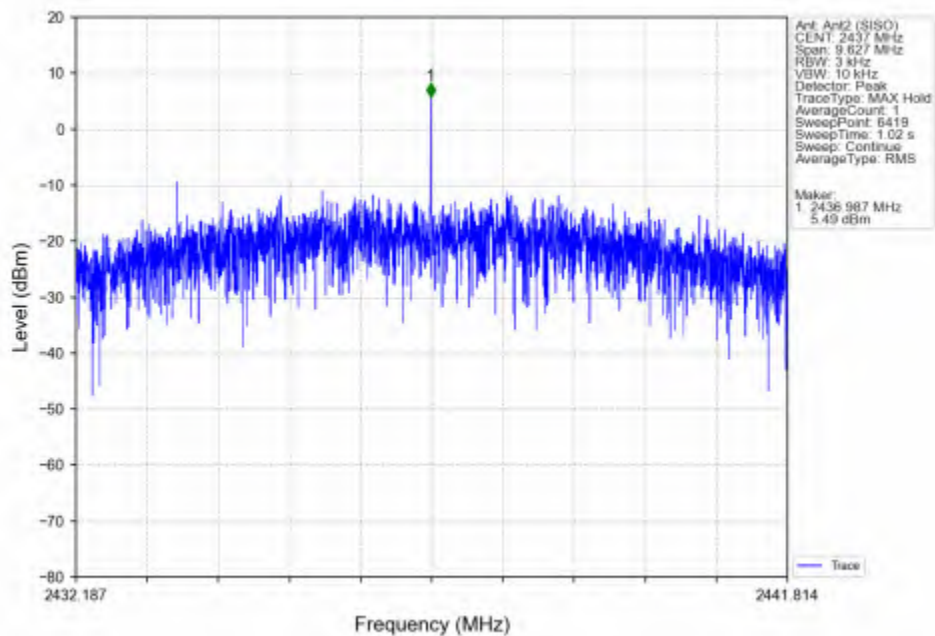


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

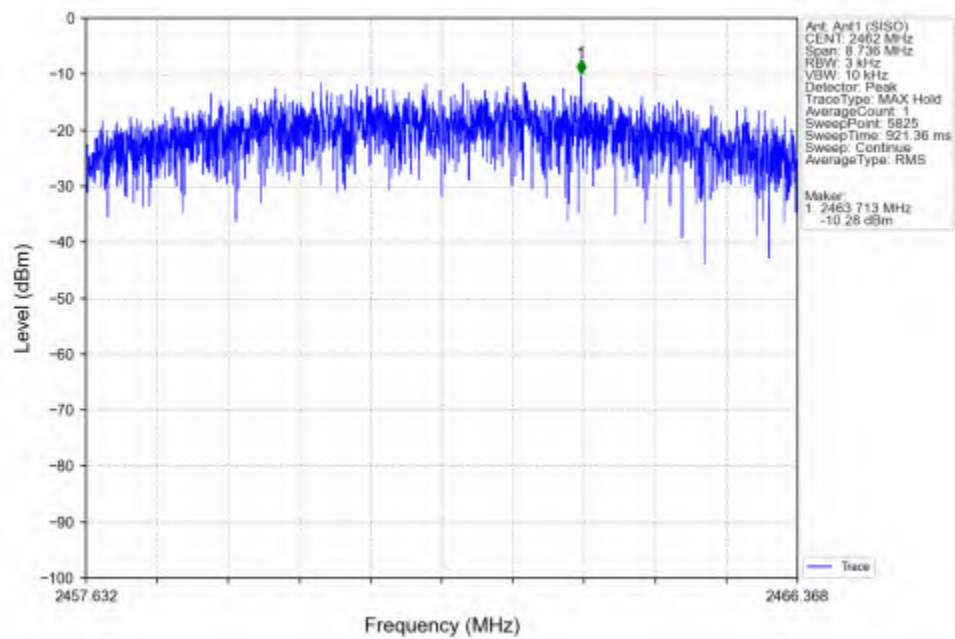


802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV

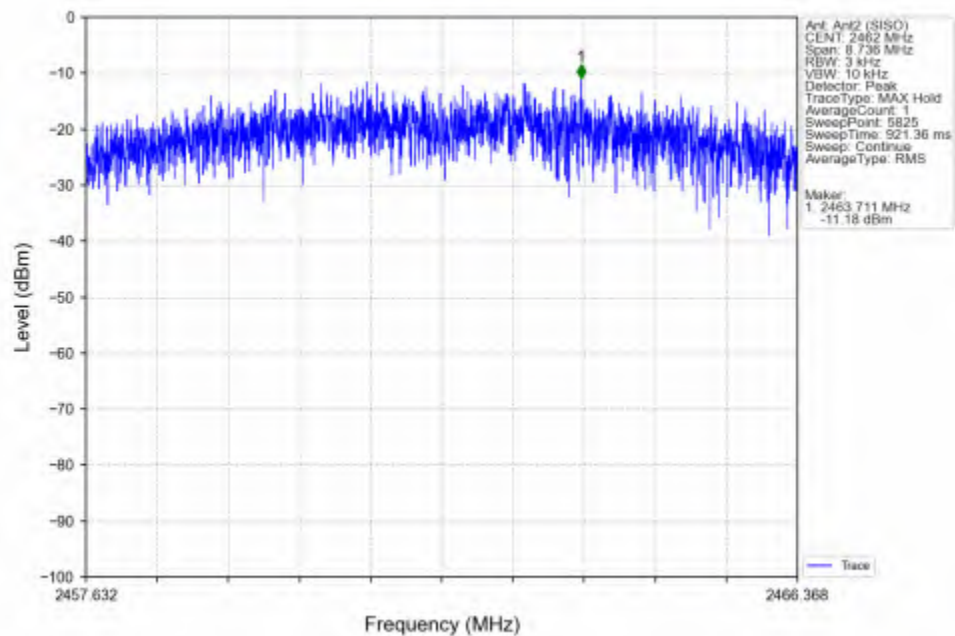


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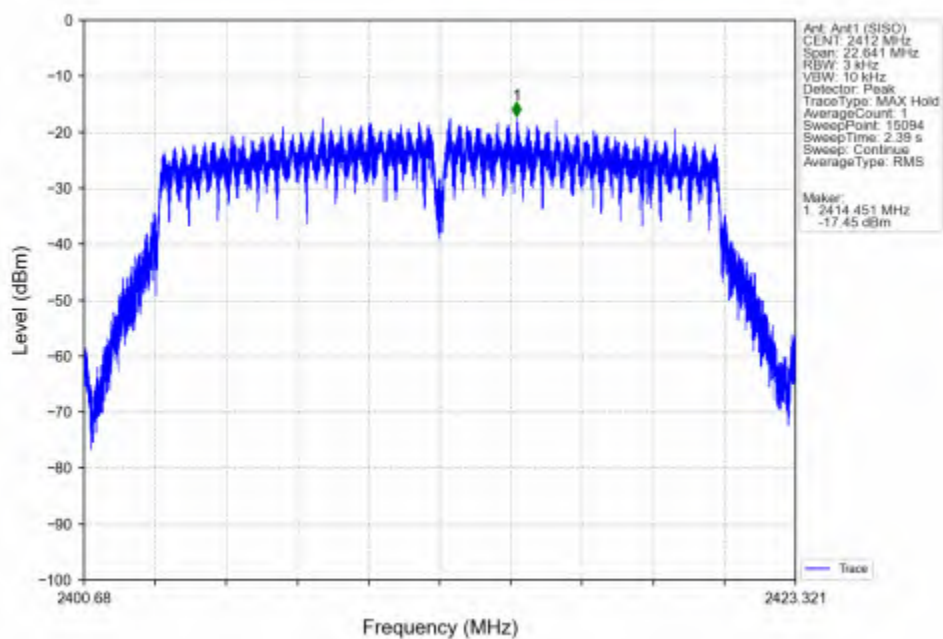


802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV

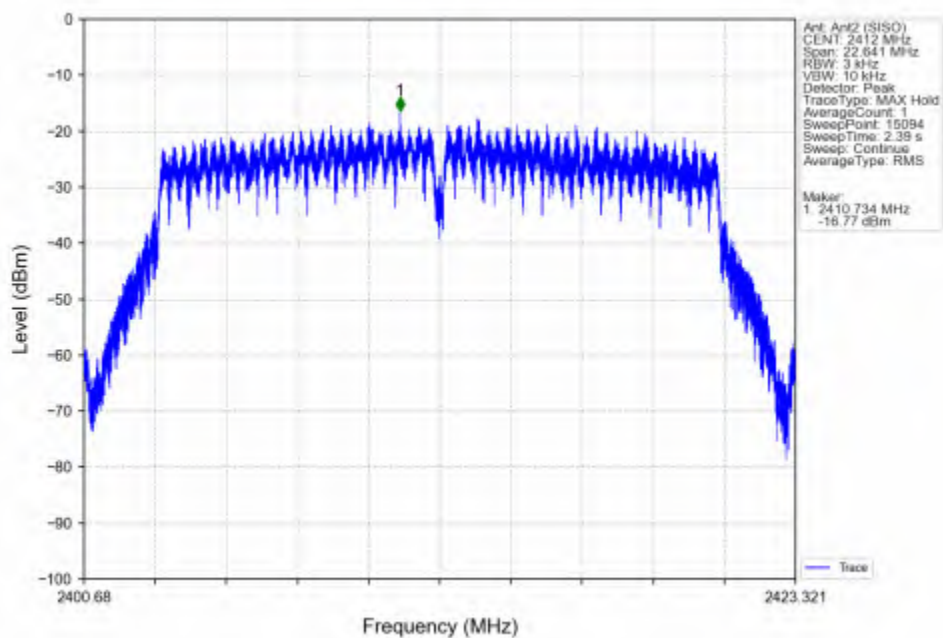


FCC ID: 2BLP-G7A1

802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

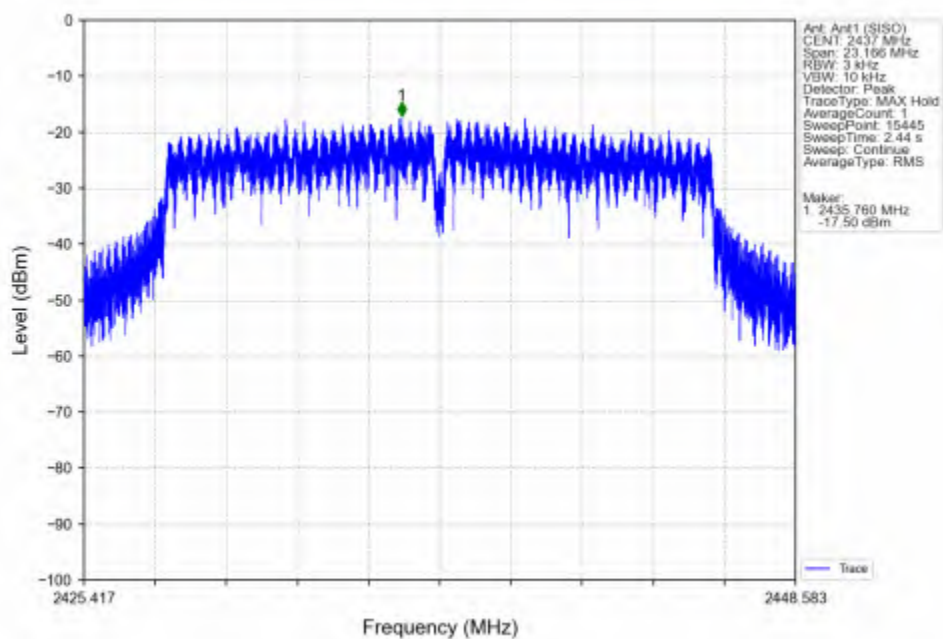


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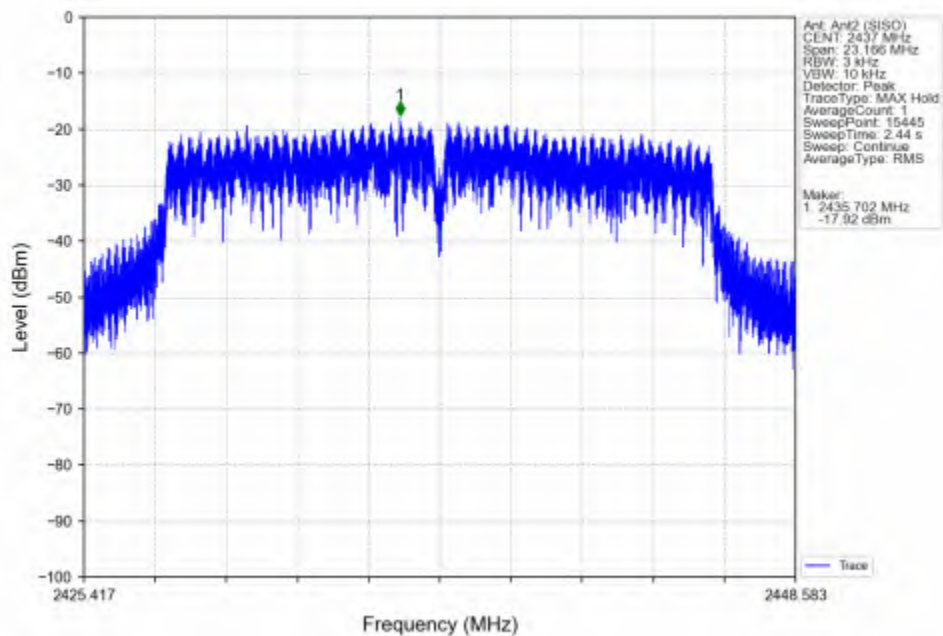


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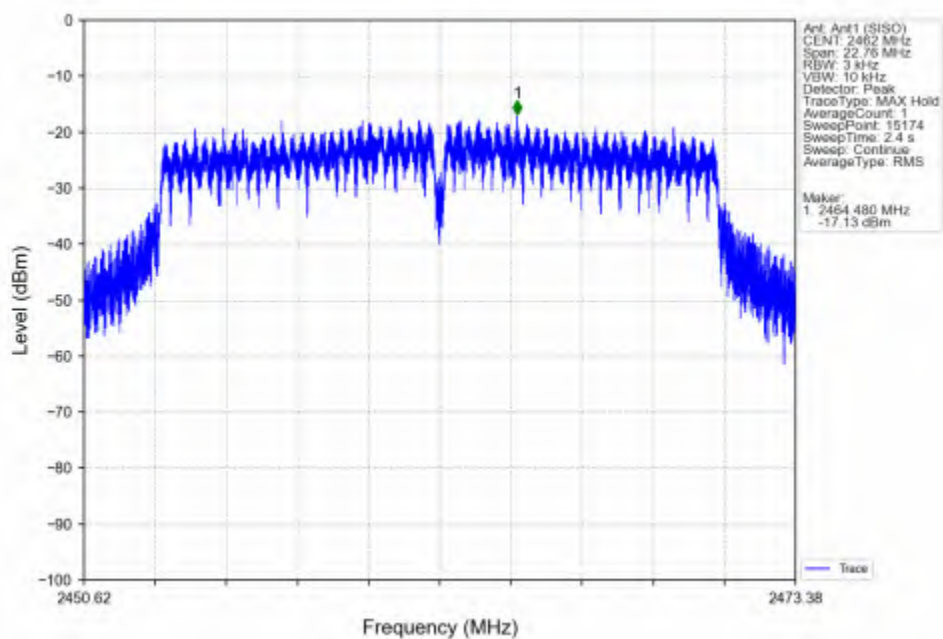


802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV

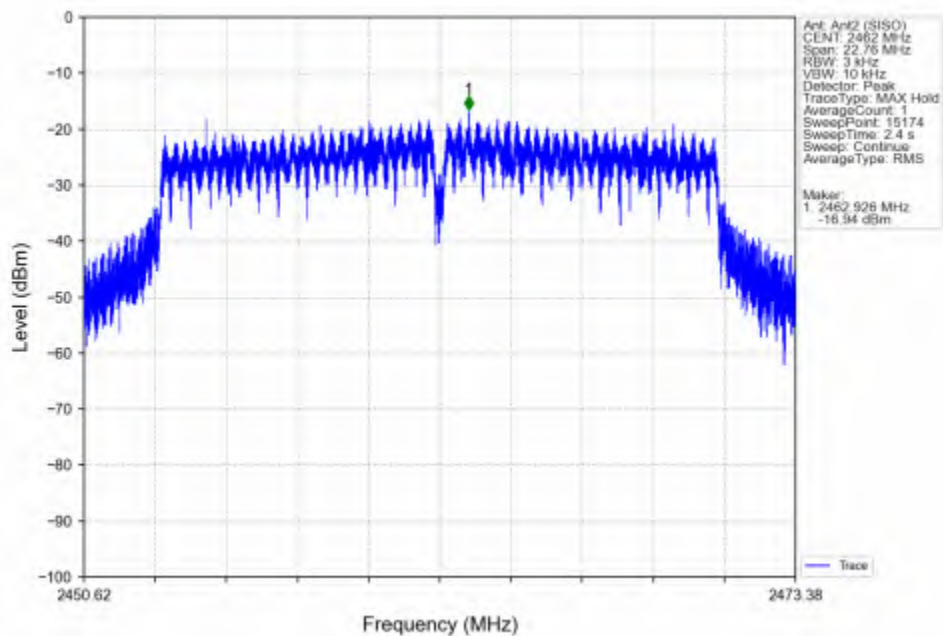


FCC ID: 2BLP-G7A1

802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

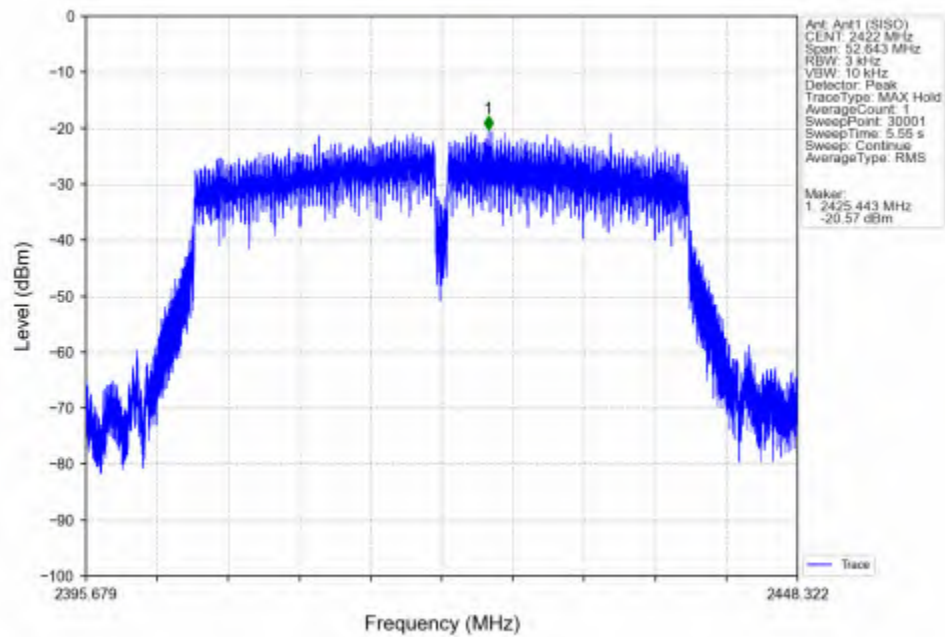


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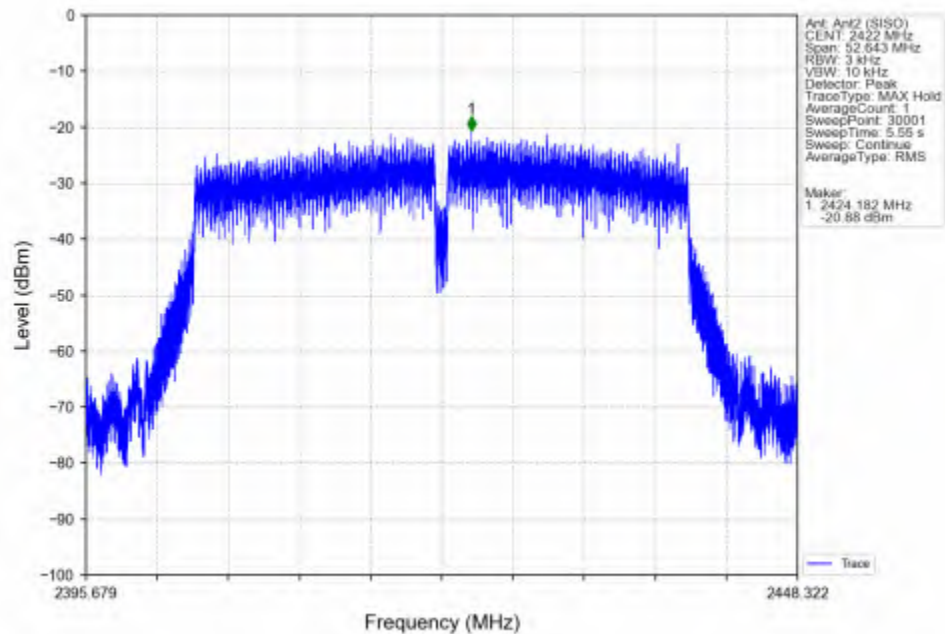


FCC ID: 2BLP-G7A1

802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

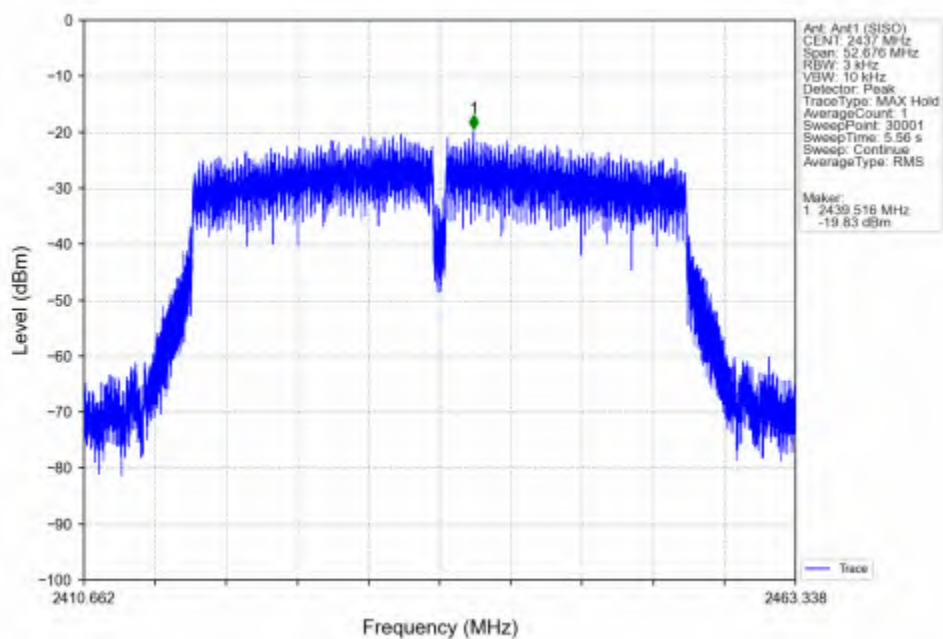


802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV

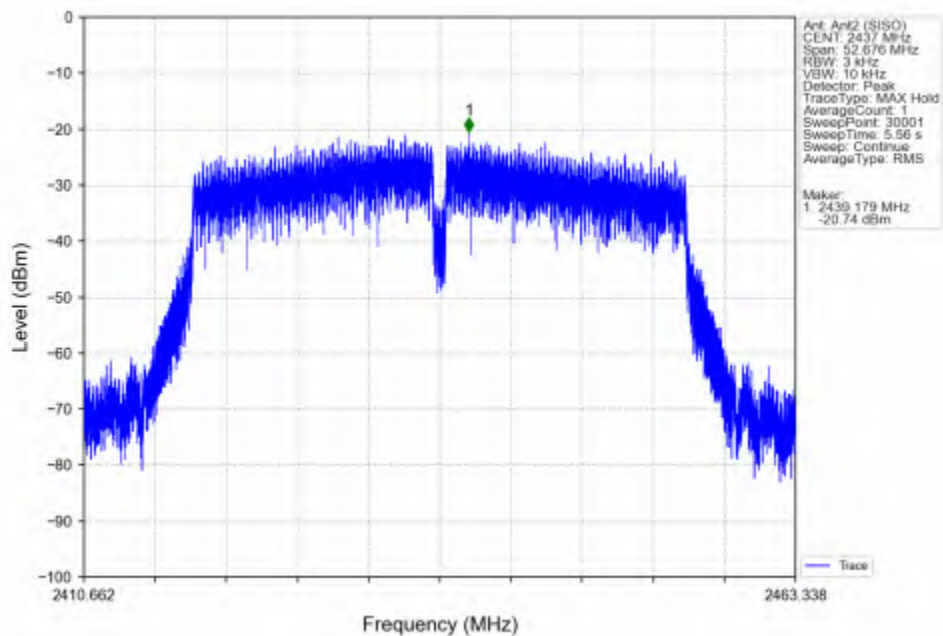


FCC ID: 2BLP-G7A1

802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

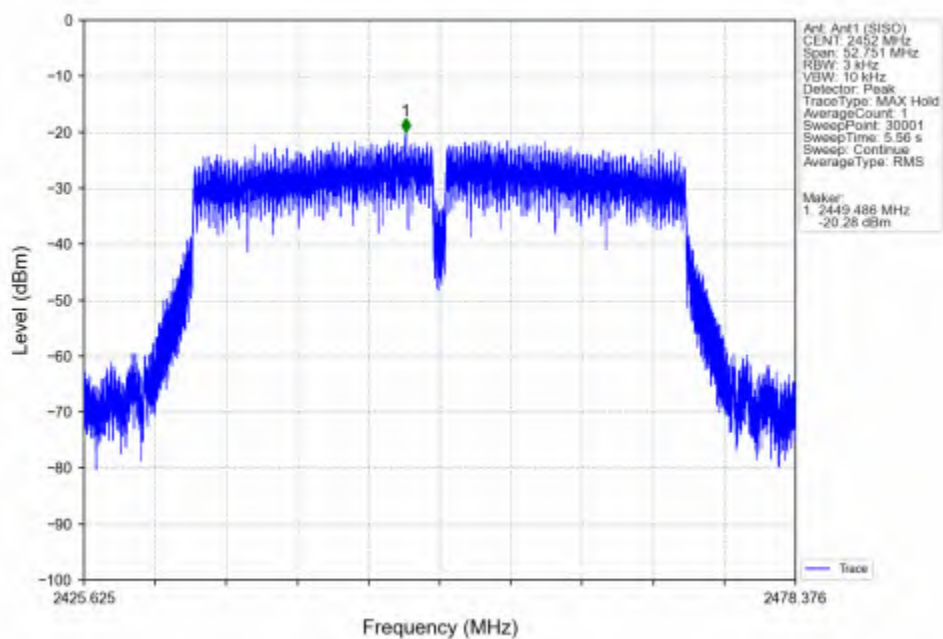


802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV

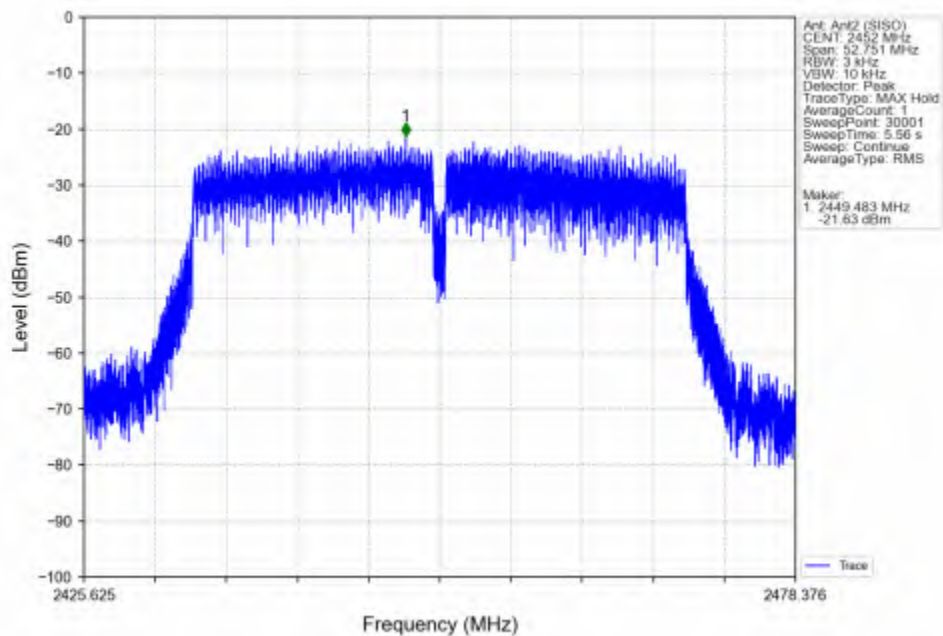


FCC ID: 2BLP-G7A1

802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

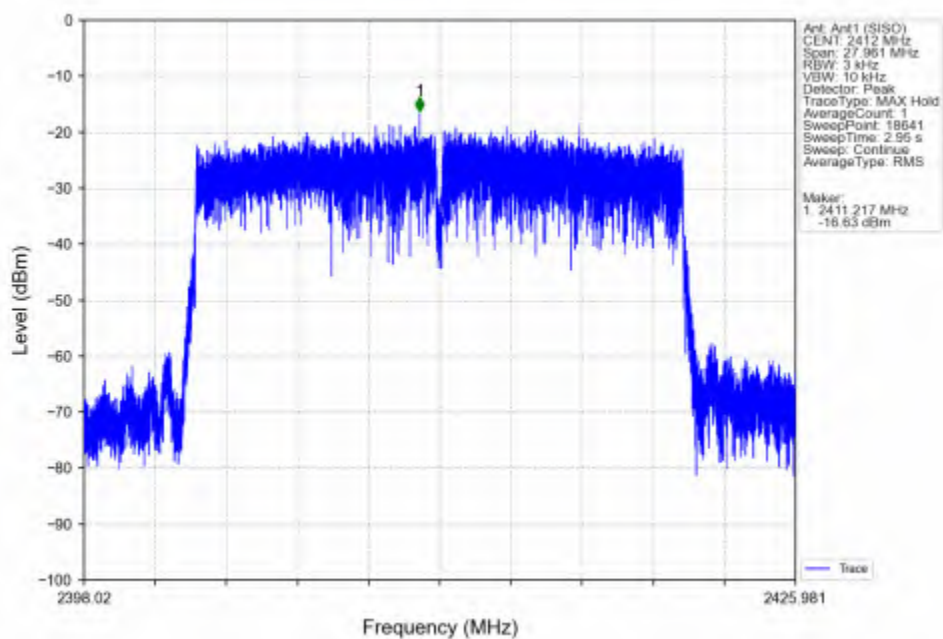


802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV

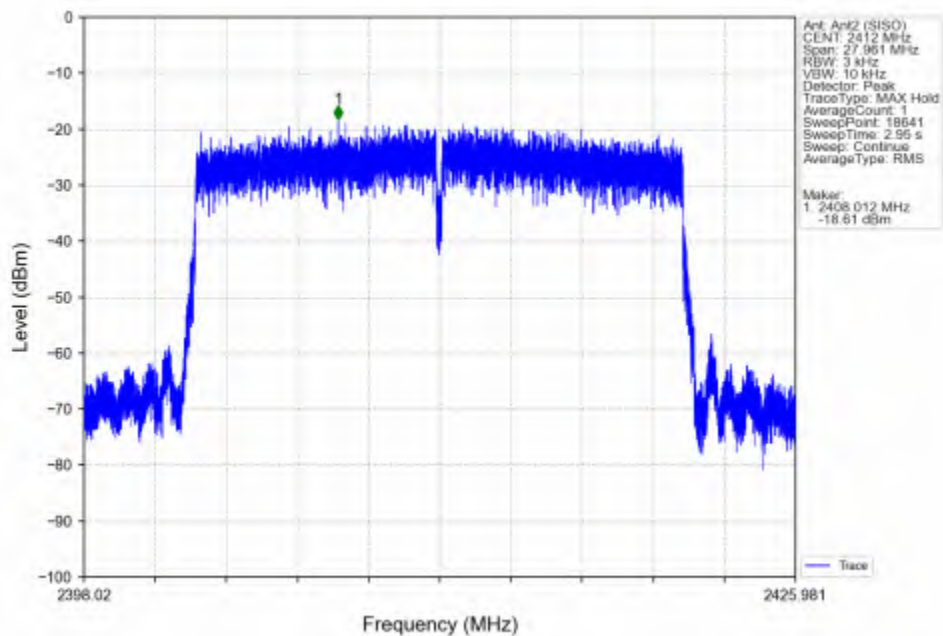


FCC ID: 2BLP-G7A1

802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV

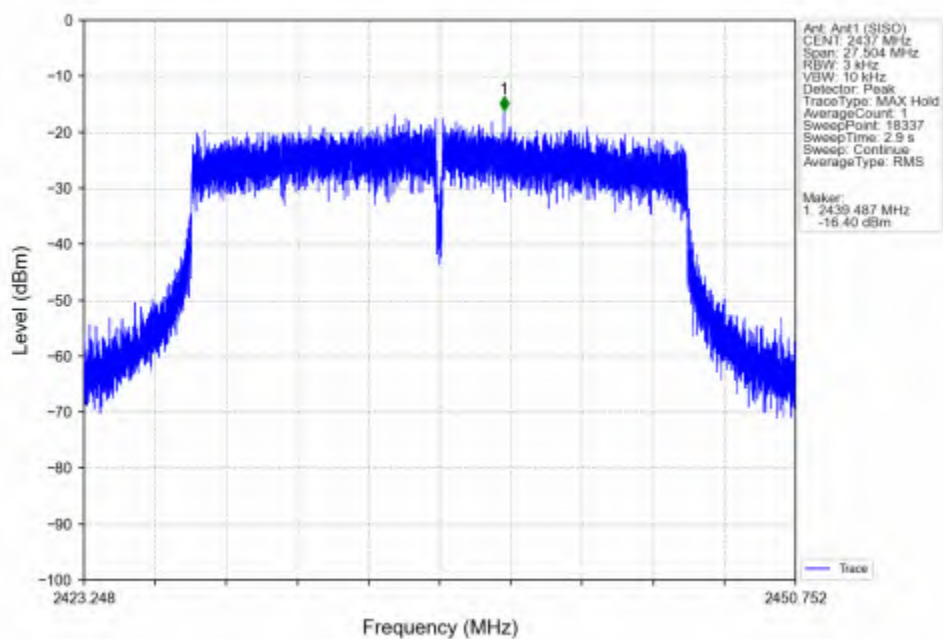


802.11ax(HEW20)_LCH_2412MHz_SU / _Ant2 (SISO)_NTNV

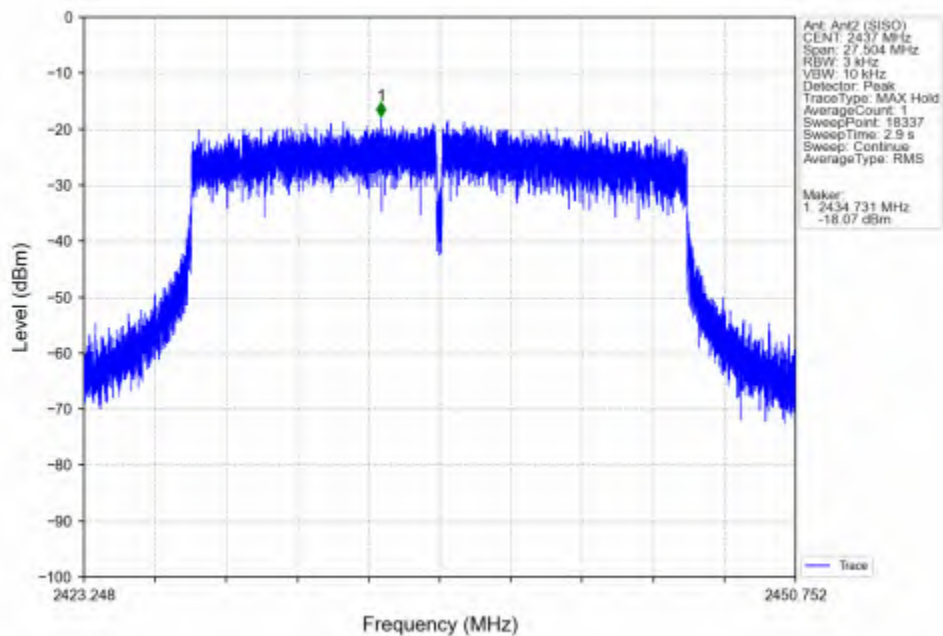


FCC ID: 2BLP-G7A1

802.11ax(HEW20) MCH_2437MHz_SU_ / _Ant1 (SISO)_NTNV

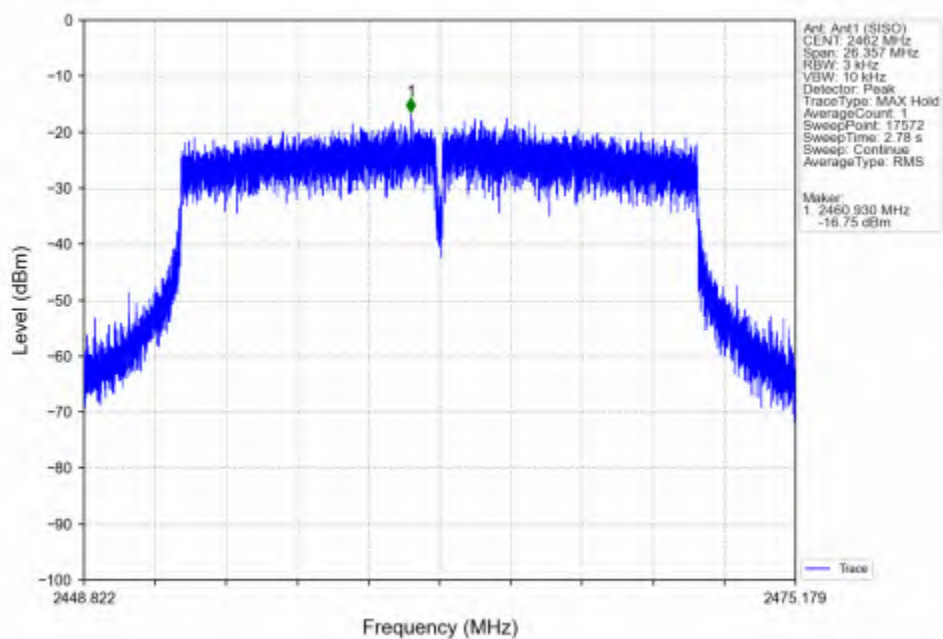


802.11ax(HEW20) MCH_2437MHz_SU_ / _Ant2 (SISO)_NTNV

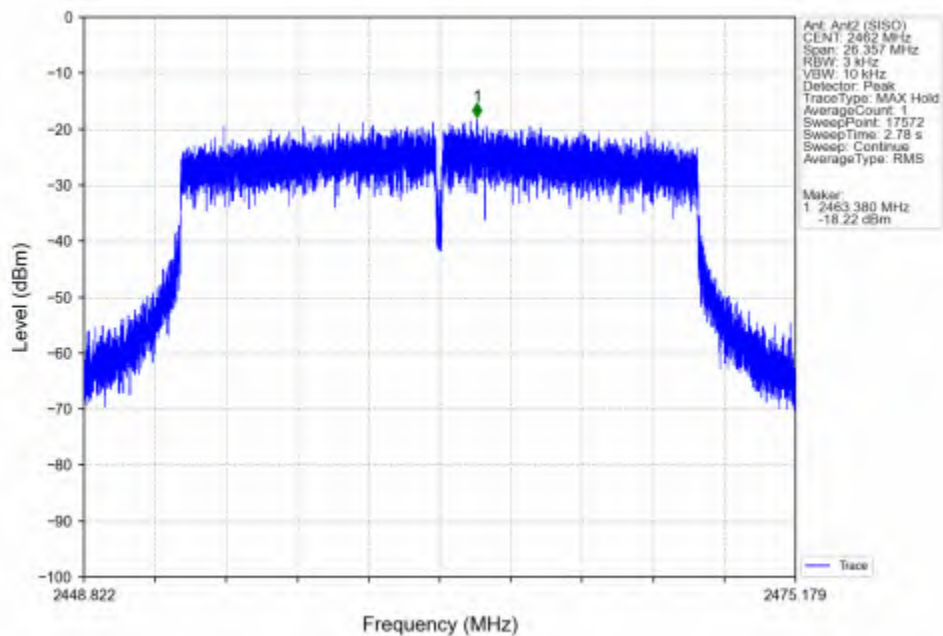


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802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV

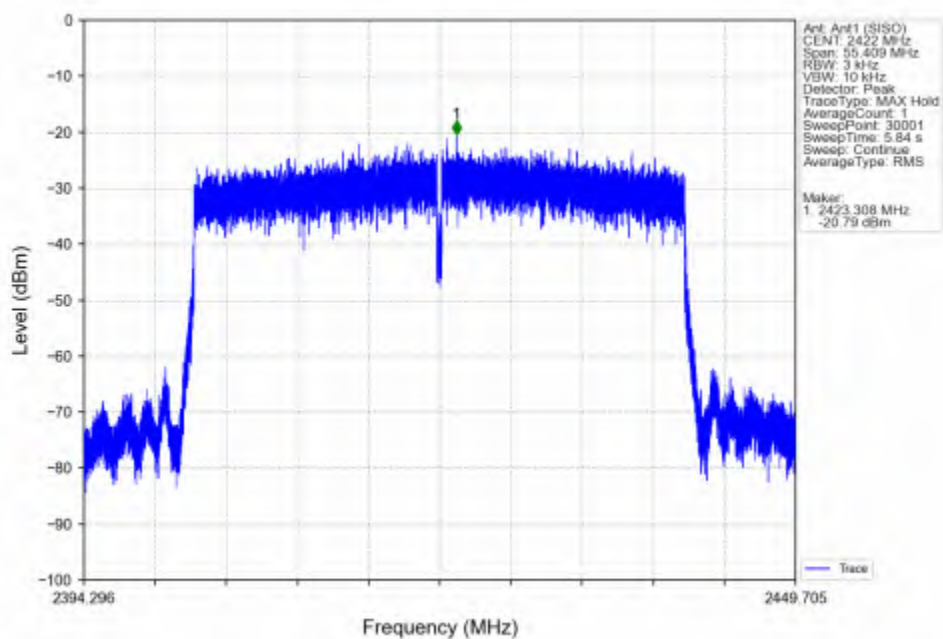


802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant2 (SISO)_NTNV

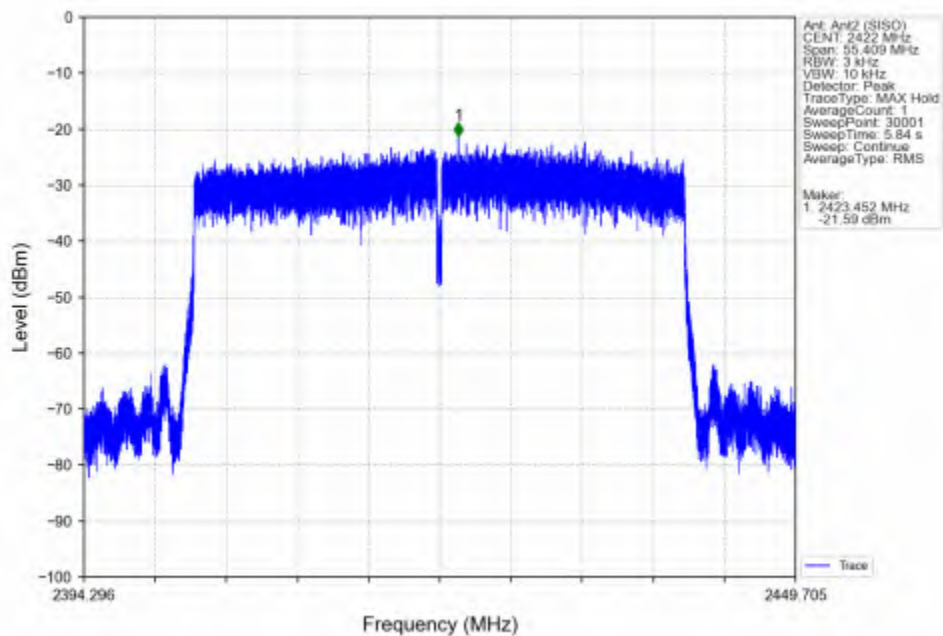


FCC ID: 2BLP-G7A1

802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV

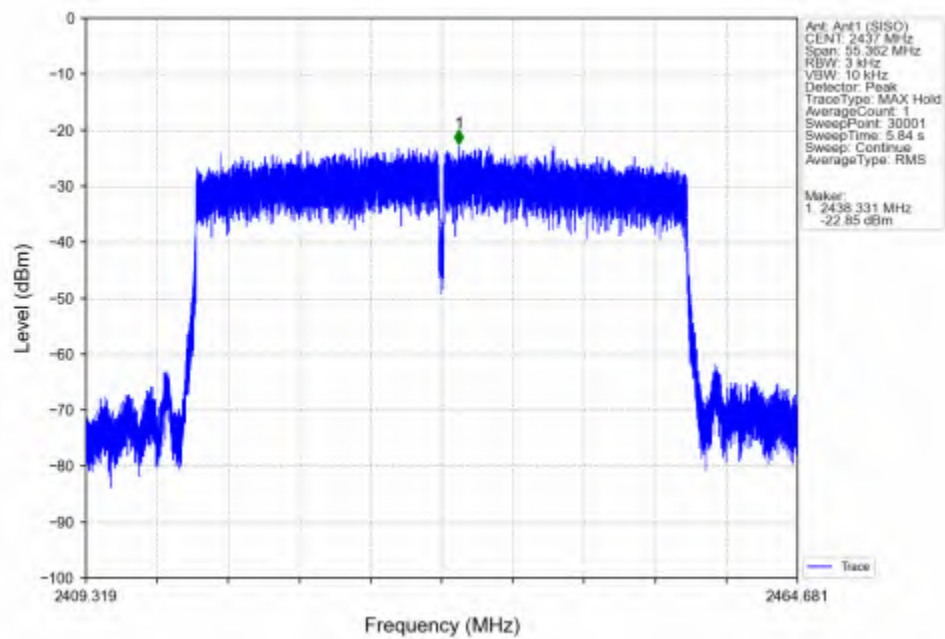


802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant2 (SISO)_NTNV

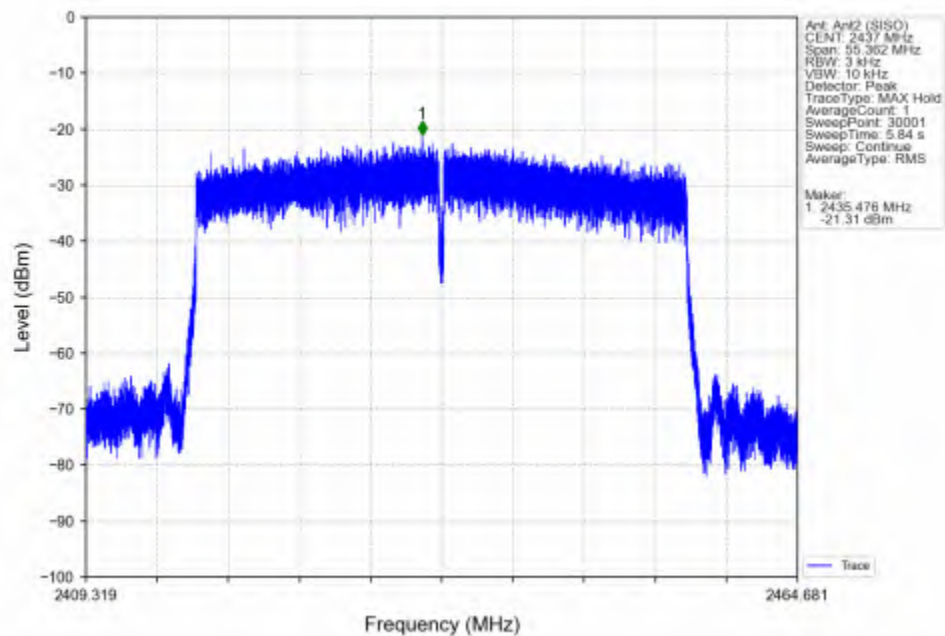


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802.11ax(HEW40) MCH_2437MHz_SU_ / _Ant1 (SISO)_NTNV

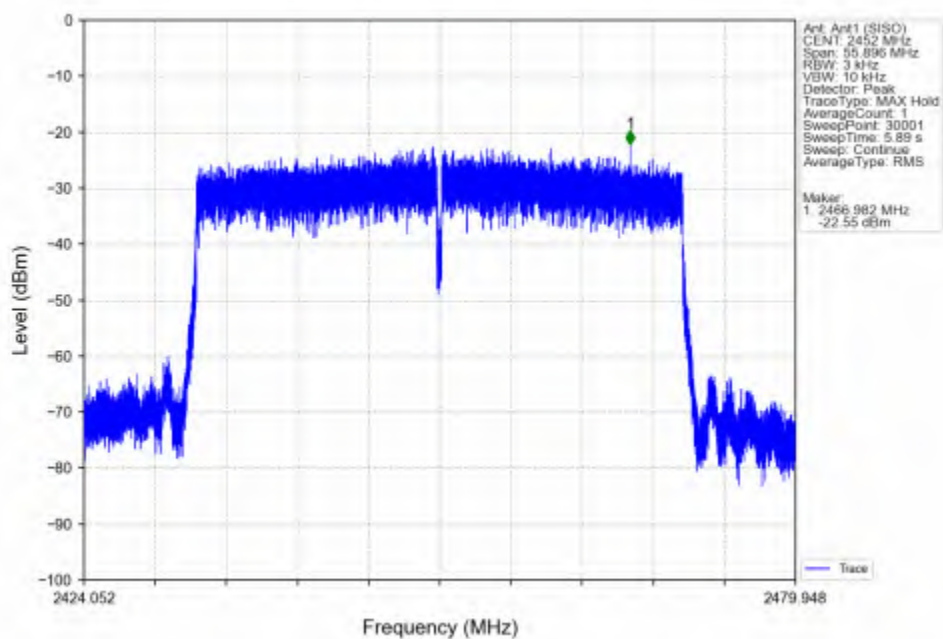


802.11ax(HEW40) MCH_2437MHz_SU_ / _Ant2 (SISO)_NTNV

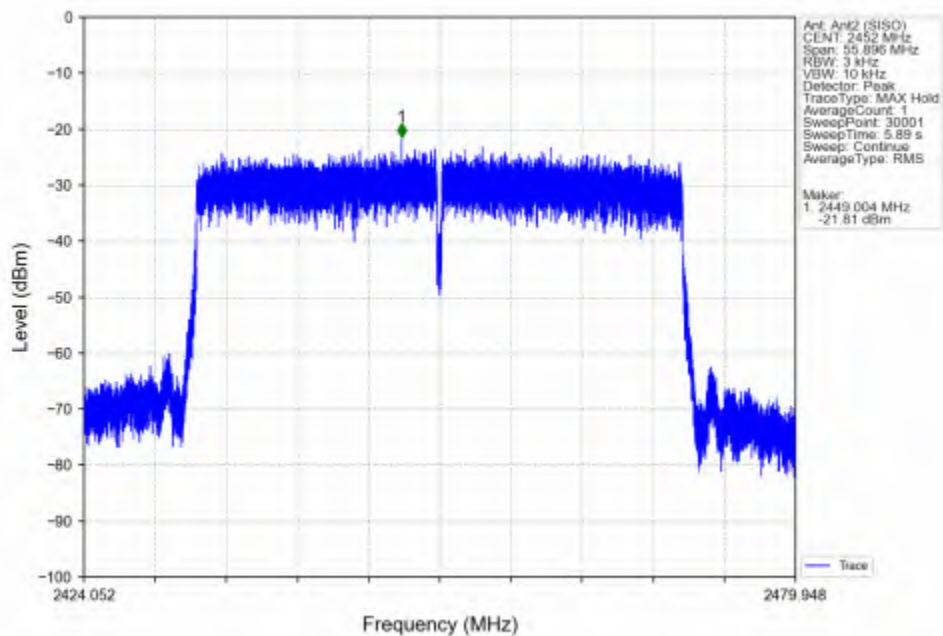


FCC ID: 2BLP-G7A1

802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant2 (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	3.46
					2	2.60
		2437	/	/	1	4.08
					2	3.37
		2462	/	/	1	4.07
					2	2.68
802.11g	SISO	2412	/	/	1	4.63
					2	2.86
		2437	/	/	1	5.36
					2	5.53
		2462	/	/	1	5.35
					2	4.81
802.11n (HT20)	SISO	2412	/	/	1	-1.00
					2	-1.46
		2437	/	/	1	-0.39
					2	-1.47
		2462	/	/	1	-0.27
					2	-0.97
802.11n (HT40)	SISO	2422	/	/	1	-4.12
					2	-5.15
		2437	/	/	1	-4.78
					2	-4.71
		2452	/	/	1	-4.51
					2	-5.78
802.11ax (HEW20)	SISO	2412	SU	/	1	-2.90
					2	2.01
		2437	SU	/	1	-1.82
					2	-2.07
		2462	SU	/	1	-2.31
					2	-2.60
802.11ax (HEW40)	SISO	2422	SU	/	1	1.41
					2	-6.58
		2437	SU	/	1	-6.64
					2	-6.17
		2452	SU	/	1	-7.04
					2	-7.51
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, 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	4.08	-15.92	Pass

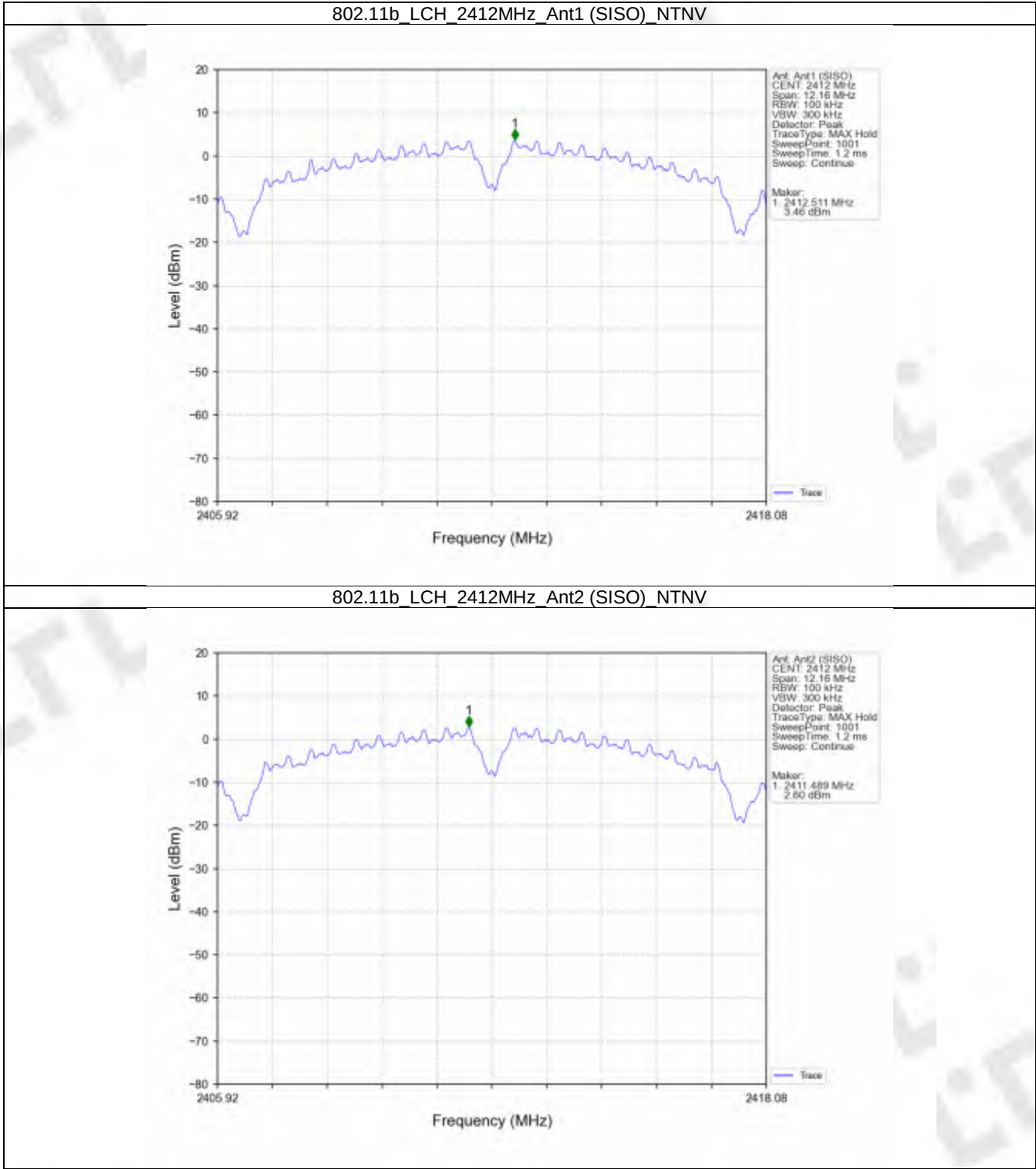
FCC ID: 2BLP-G7A1

					2	3.37	-16.63	Pass
		2437	/	/	1	4.08	-15.92	Pass
					2	3.37	-16.63	Pass
		2462	/	/	1	4.08	-15.92	Pass
					2	3.37	-16.63	Pass
		802.11g	SISO	2412	/	/	1	5.36
2	5.53						-14.47	Pass
2437	/			/	1	5.36	-14.64	Pass
					2	5.53	-14.47	Pass
2462	/			/	1	5.36	-14.64	Pass
					2	5.53	-14.47	Pass
802.11n (HT20)	SISO	2412	/	/	1	-0.27	-20.27	Pass
					2	-0.97	-20.97	Pass
		2437	/	/	1	-0.27	-20.27	Pass
					2	-0.97	-20.97	Pass
		2462	/	/	1	-0.27	-20.27	Pass
					2	-0.97	-20.97	Pass
802.11n (HT40)	SISO	2422	/	/	1	-4.12	-24.12	Pass
					2	-4.71	-24.71	Pass
		2437	/	/	1	-4.12	-24.12	Pass
					2	-4.71	-24.71	Pass
		2452	/	/	1	-4.12	-24.12	Pass
					2	-4.71	-24.71	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	-1.82	-21.82	Pass
					2	2.01	-17.99	Pass
		2437	SU	/	1	-1.82	-21.82	Pass
					2	2.01	-17.99	Pass
		2462	SU	/	1	-1.82	-21.82	Pass
					2	2.01	-17.99	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	1.41	-18.59	Pass
					2	-6.17	-26.17	Pass
		2437	SU	/	1	1.41	-18.59	Pass
					2	-6.17	-26.17	Pass
		2452	SU	/	1	1.41	-18.59	Pass
					2	-6.17	-26.17	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.								

FCC ID: 2BLP-G7A1

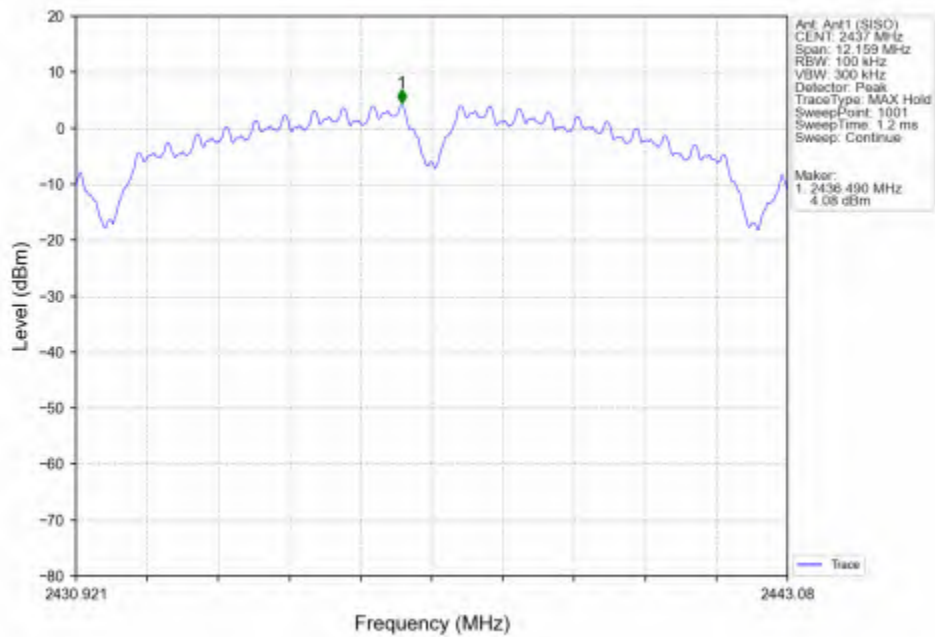
5.2 Test Graph

5.2.1 Ref

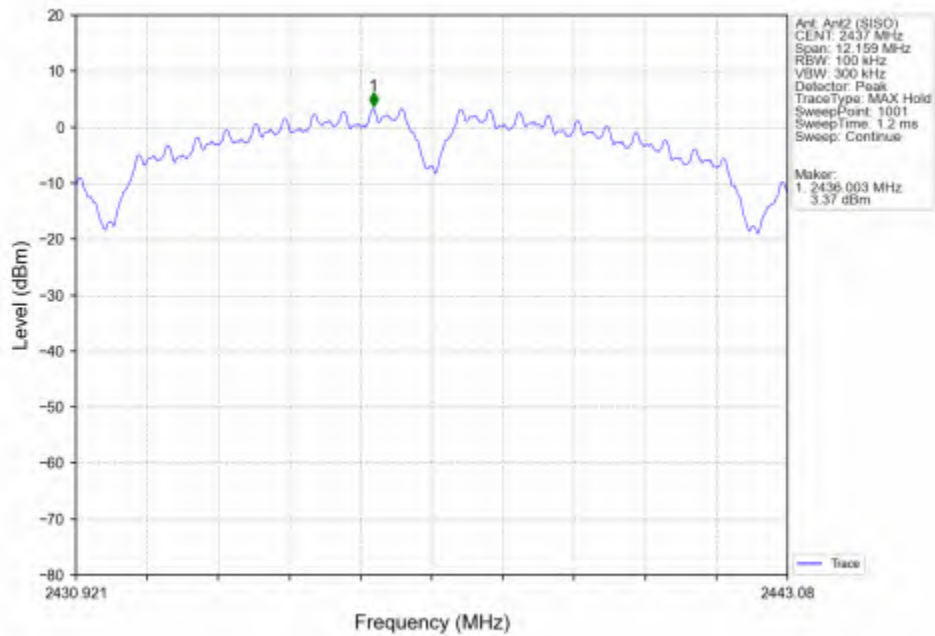


FCC ID: 2BLP-G7A1

802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

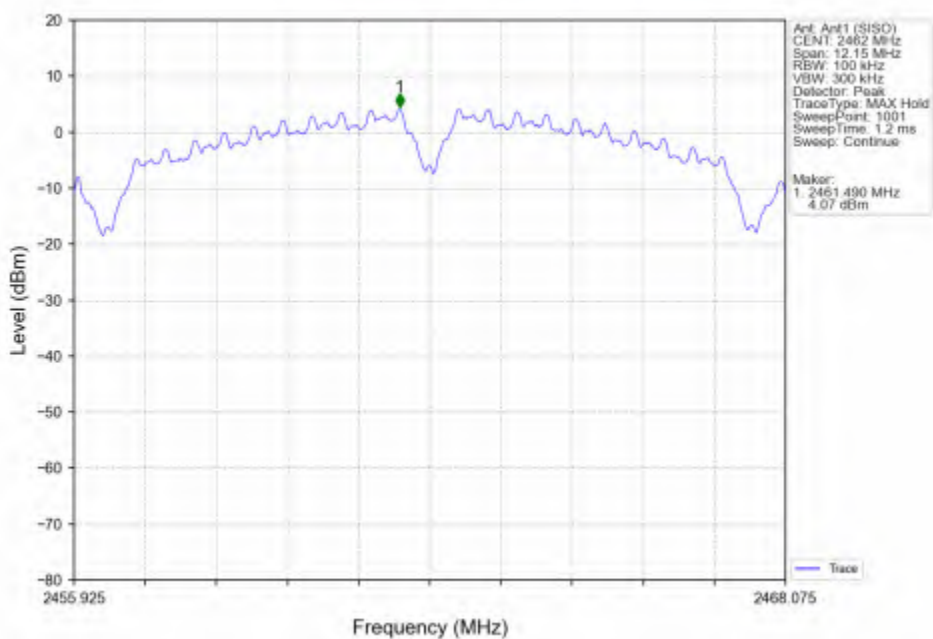


802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

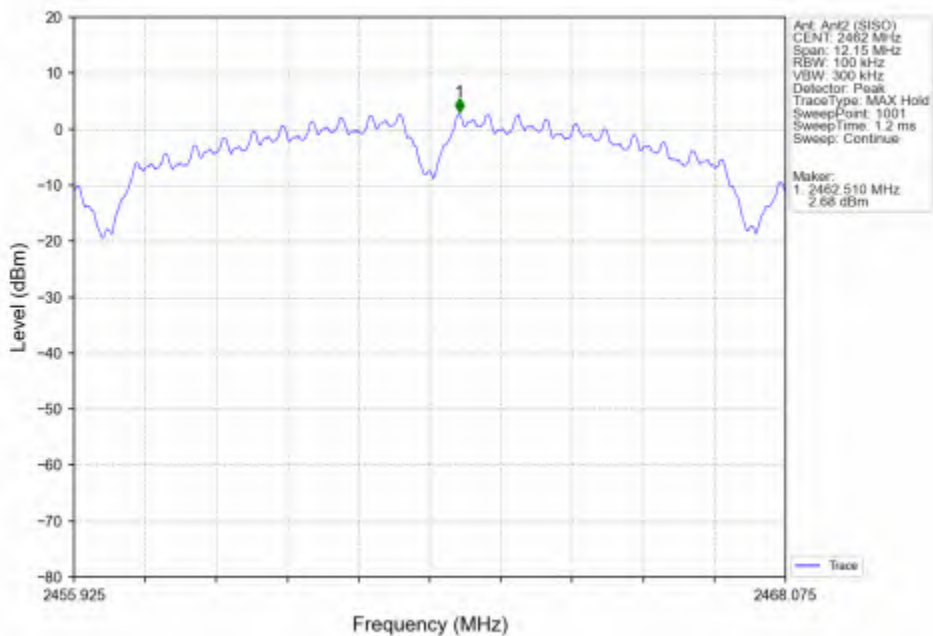


FCC ID: 2BLP-G7A1

802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

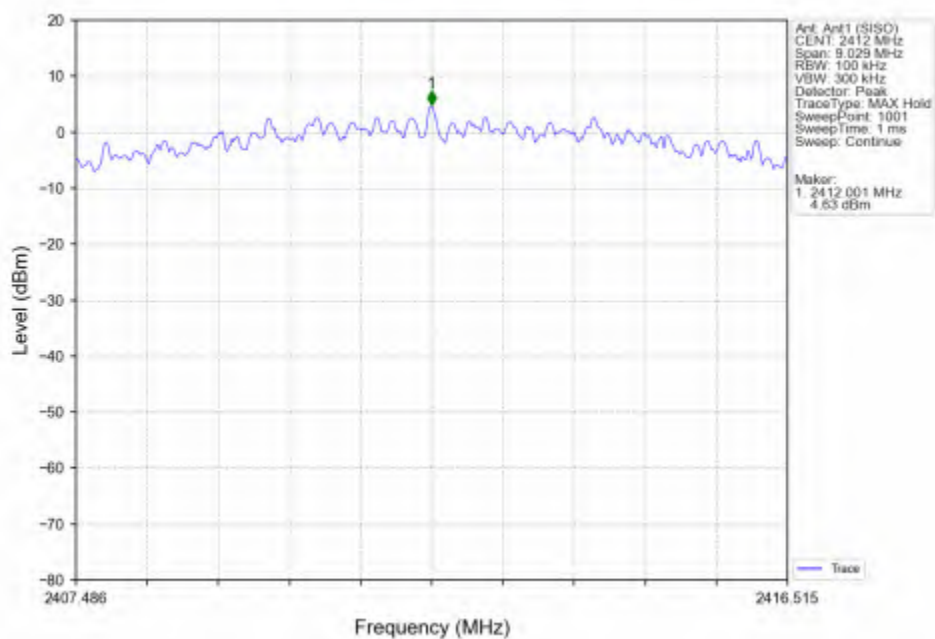


802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

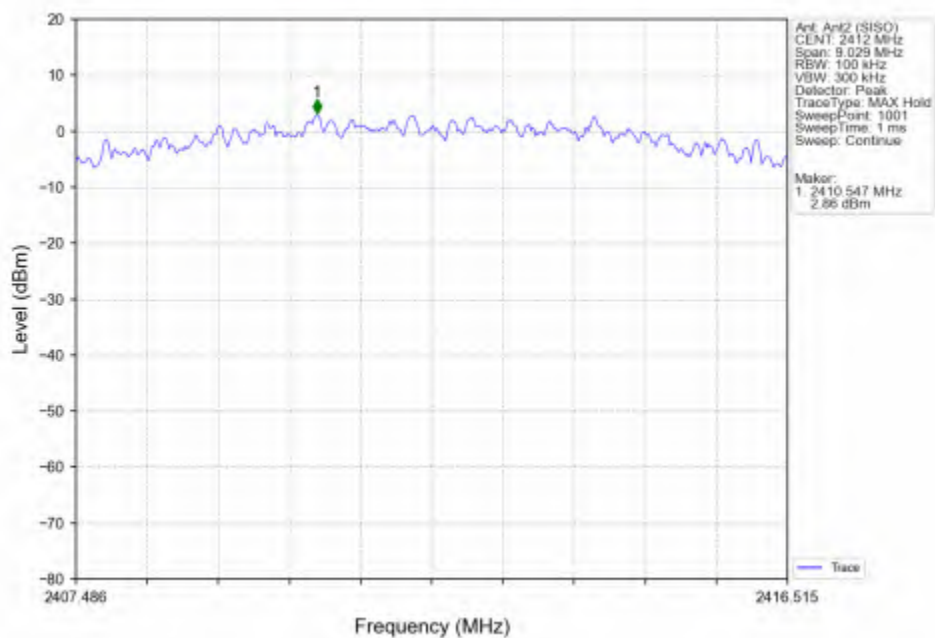


FCC ID: 2BLP-G7A1

802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

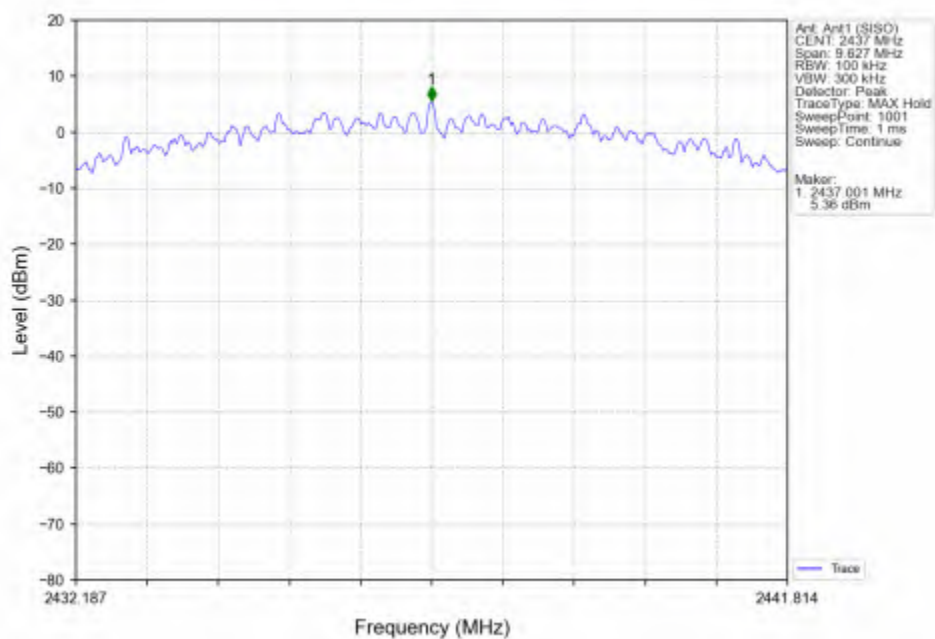


802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV

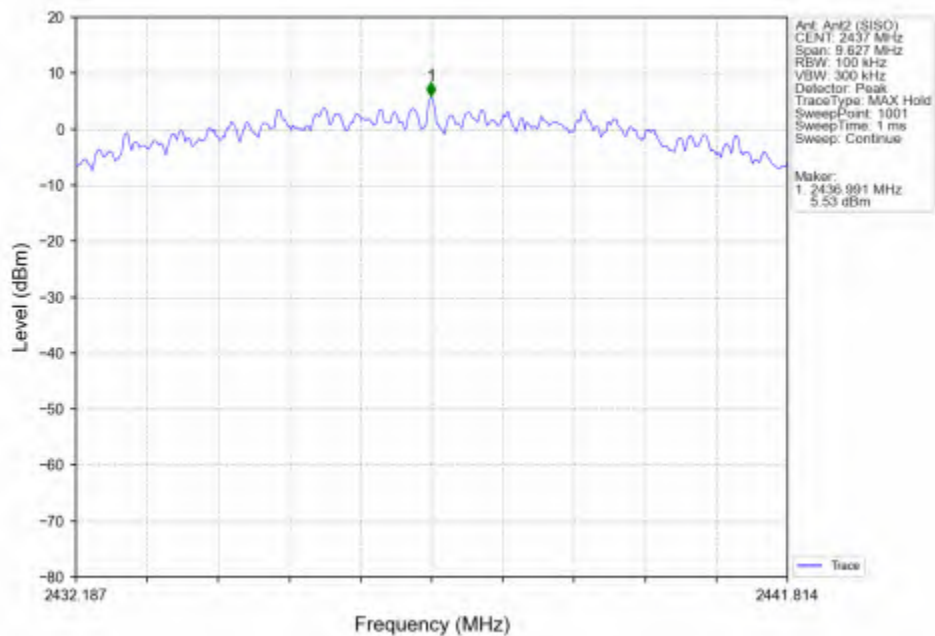


FCC ID: 2BLP-G7A1

802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

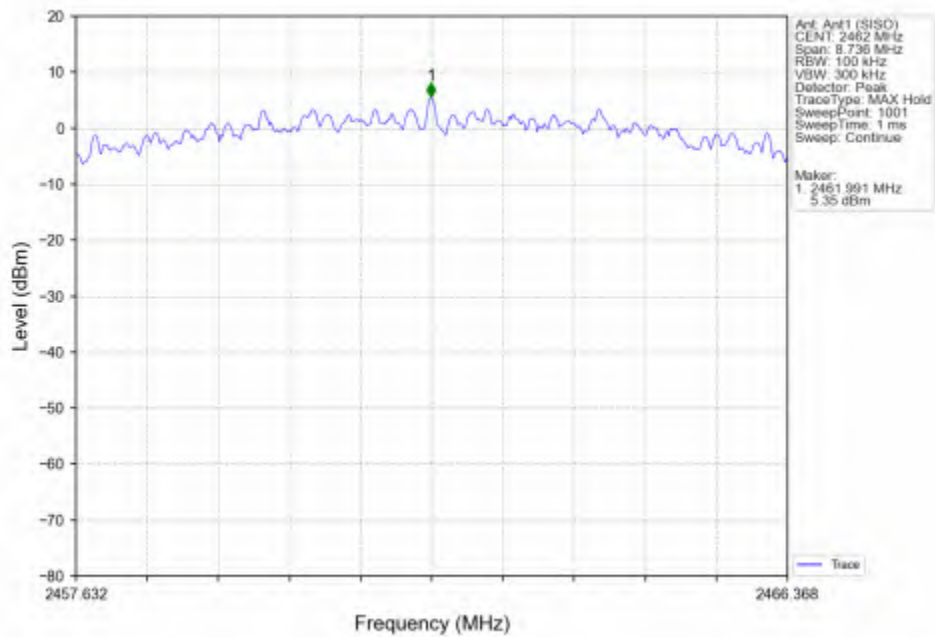


802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV

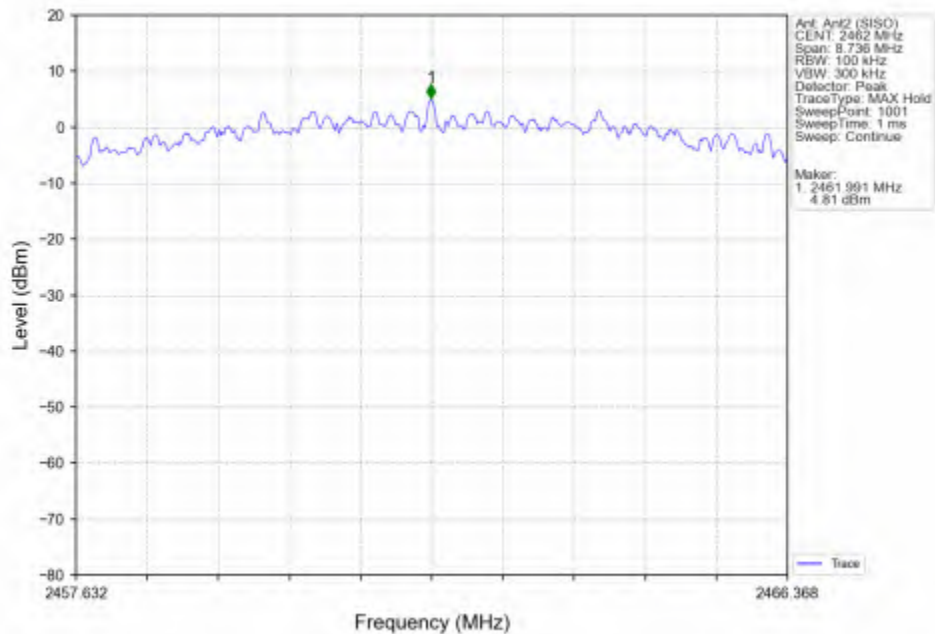


FCC ID: 2BLP-G7A1

802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

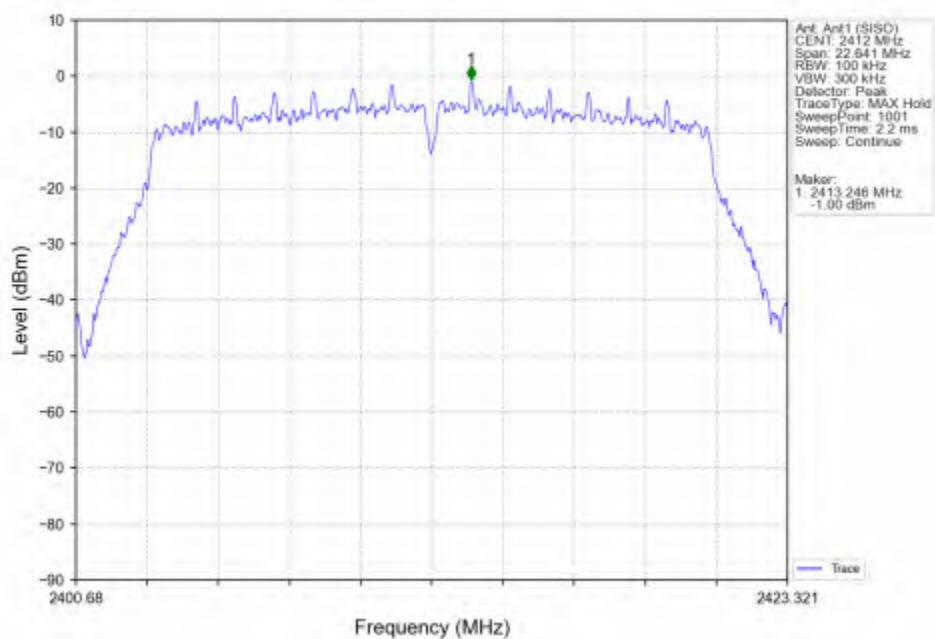


802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV

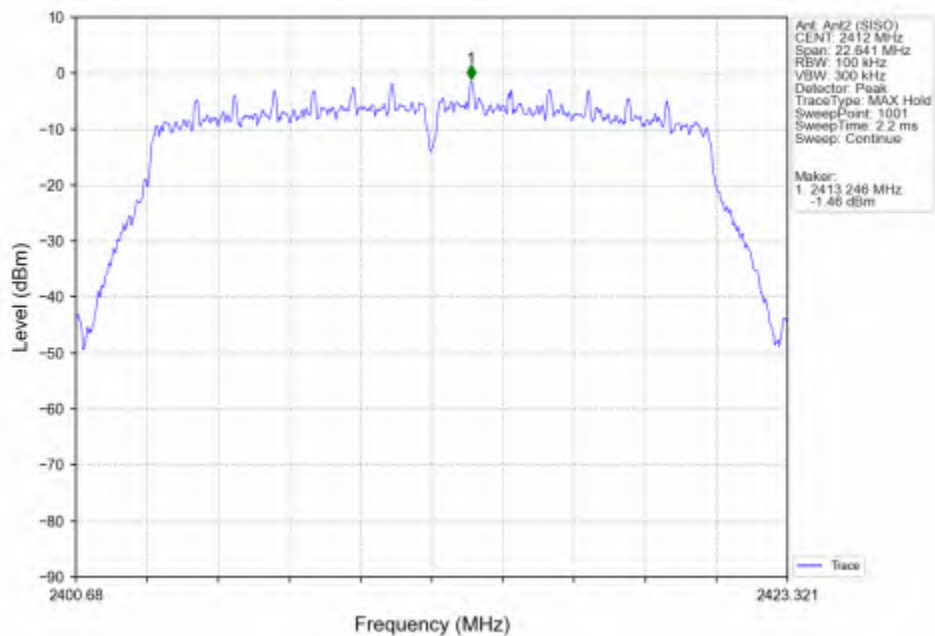


FCC ID: 2BLP-G7A1

802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

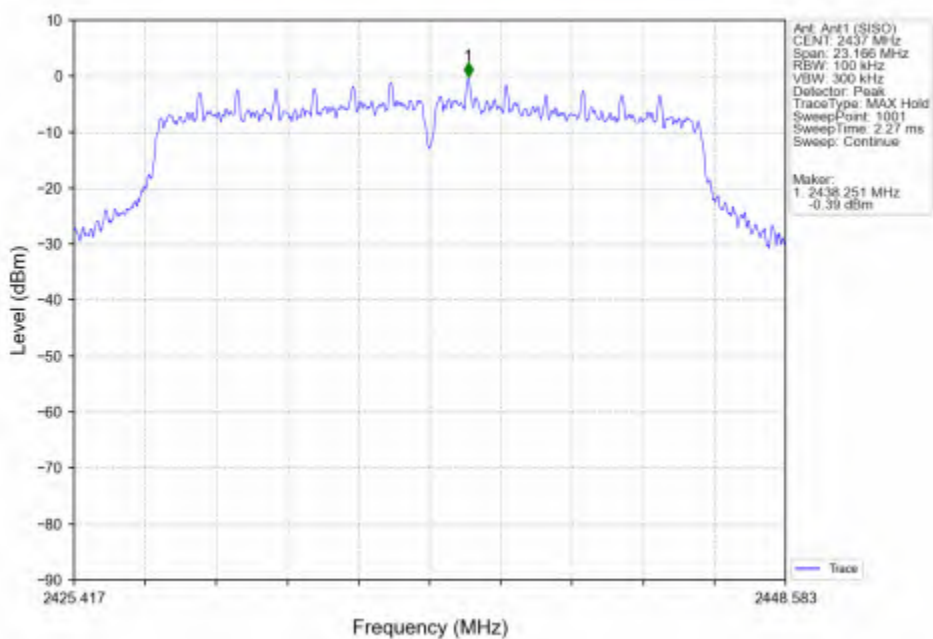


802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV

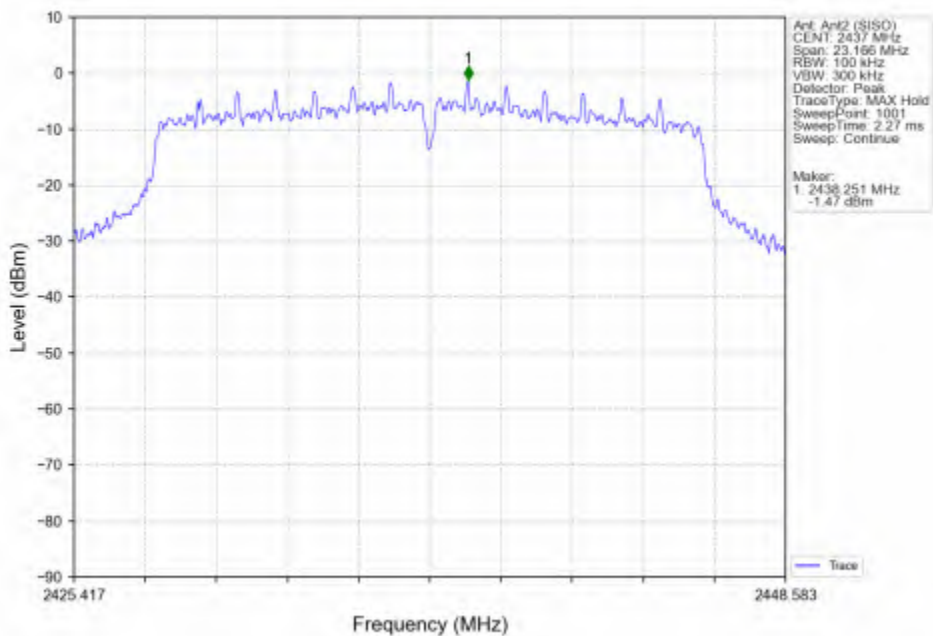


FCC ID: 2BLP-G7A1

802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

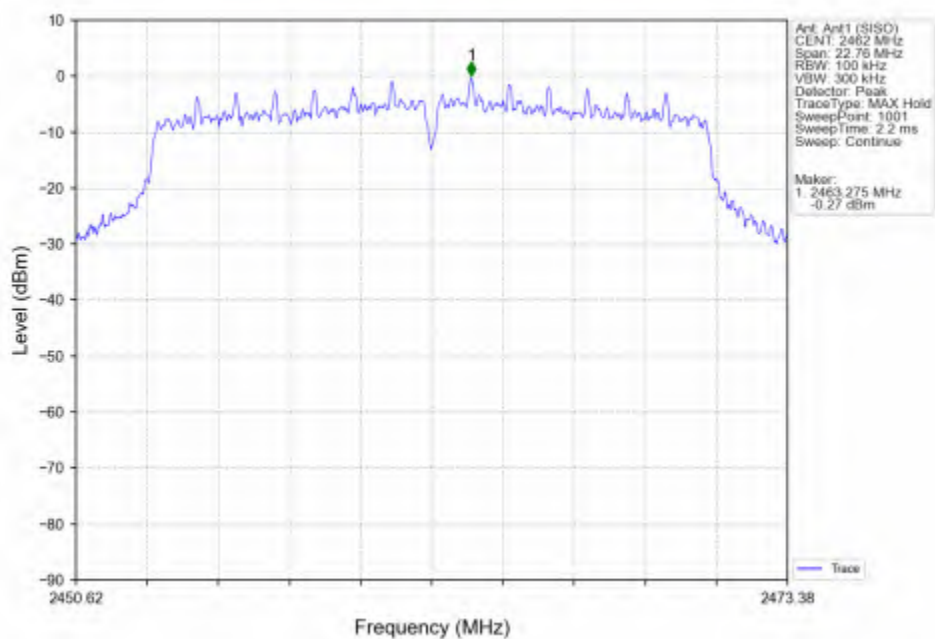


802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV

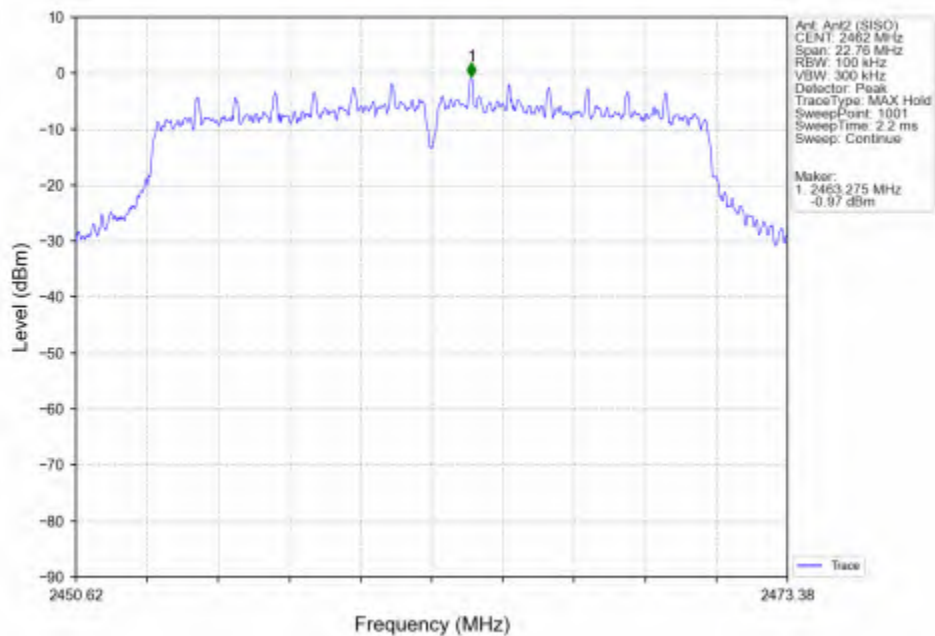


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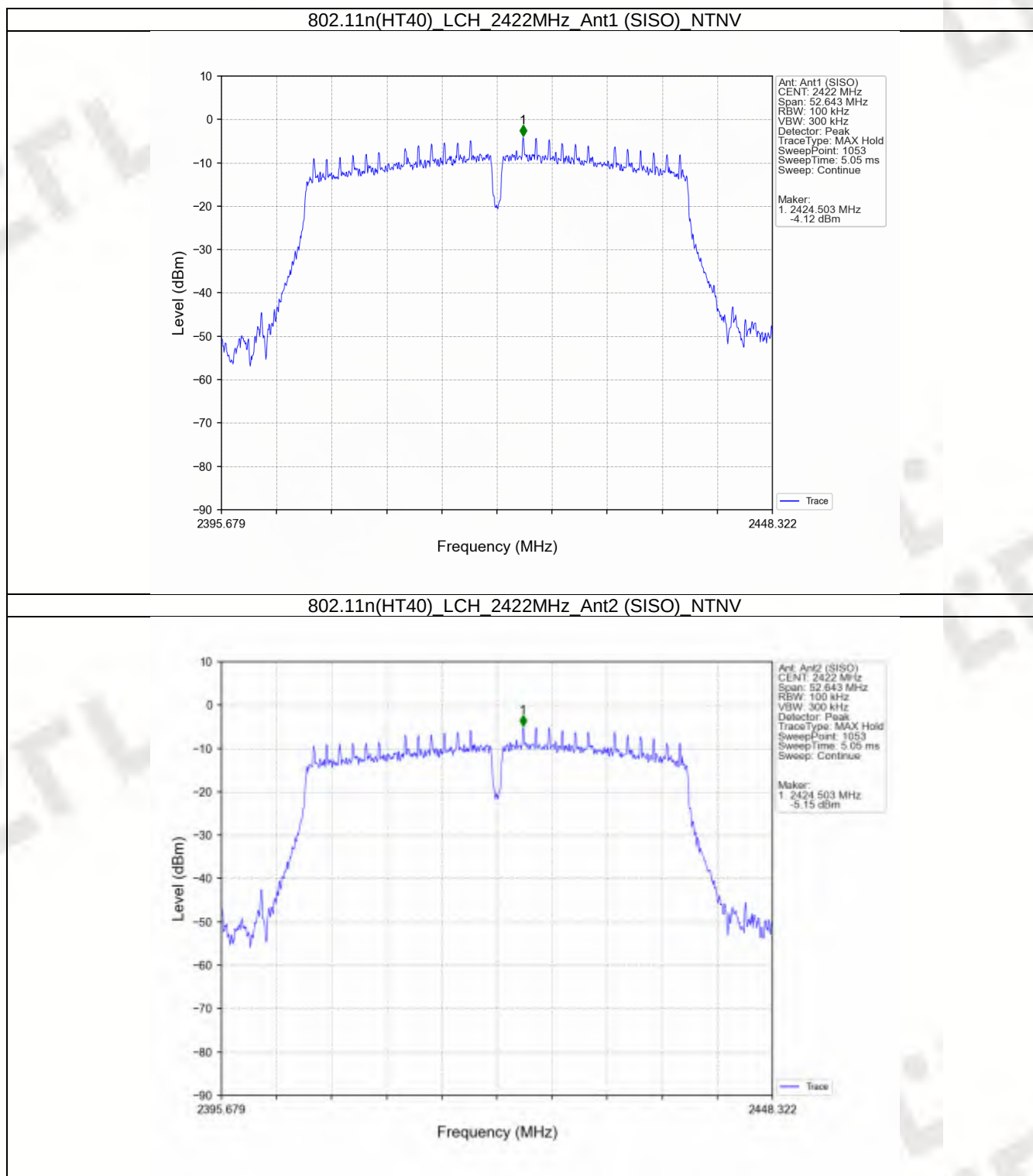
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV

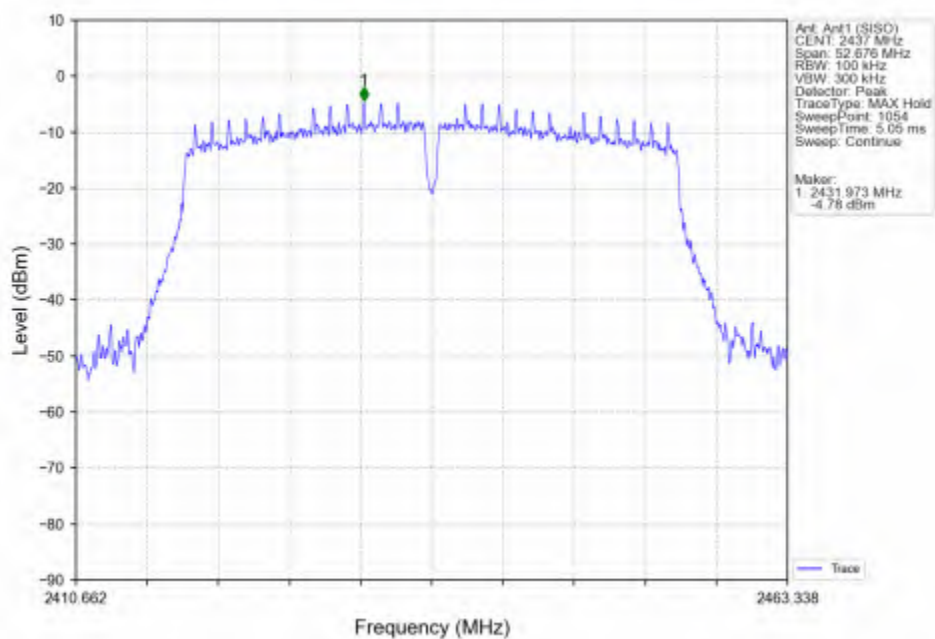


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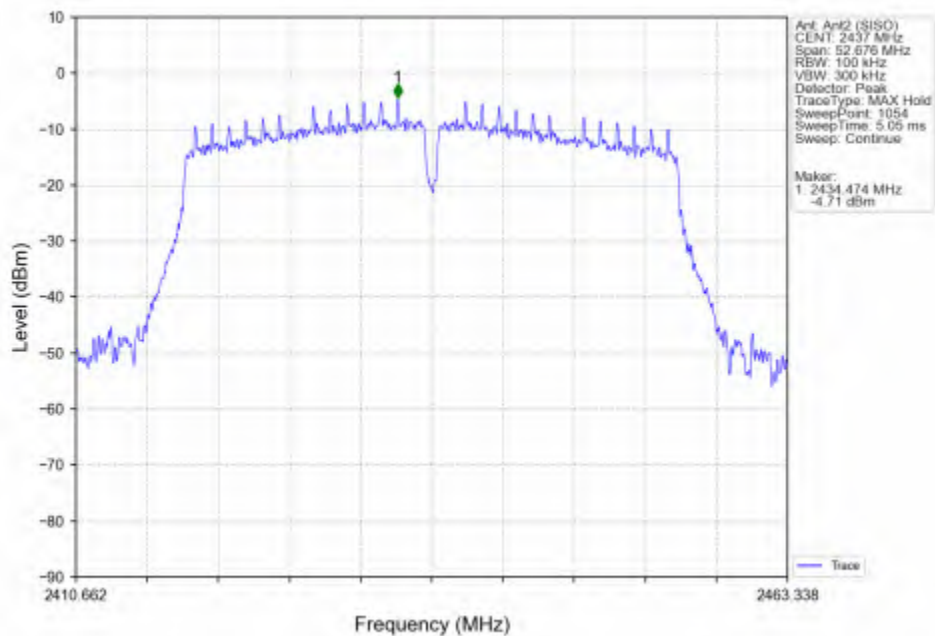


FCC ID: 2BLP-G7A1

802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

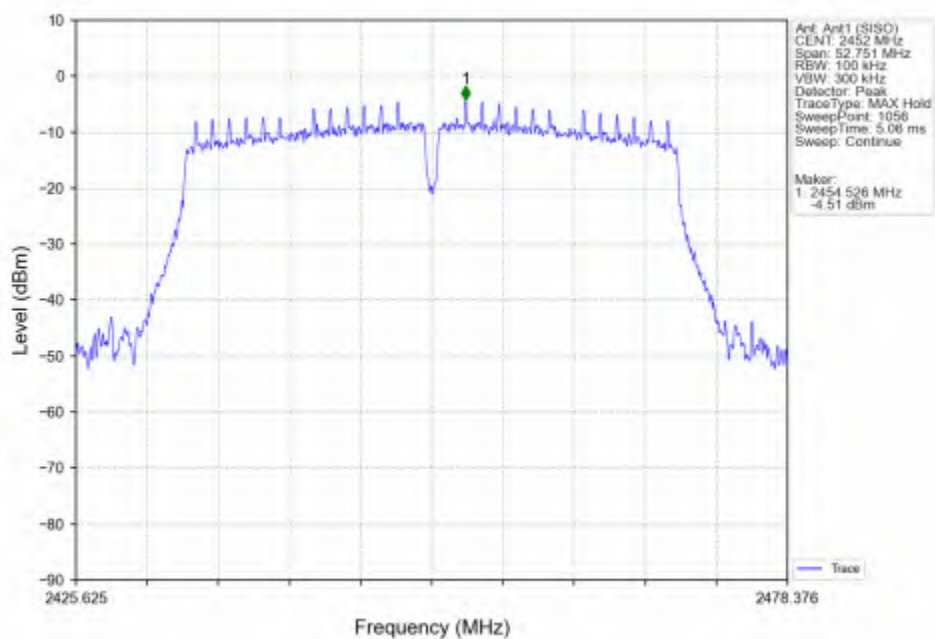


802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV

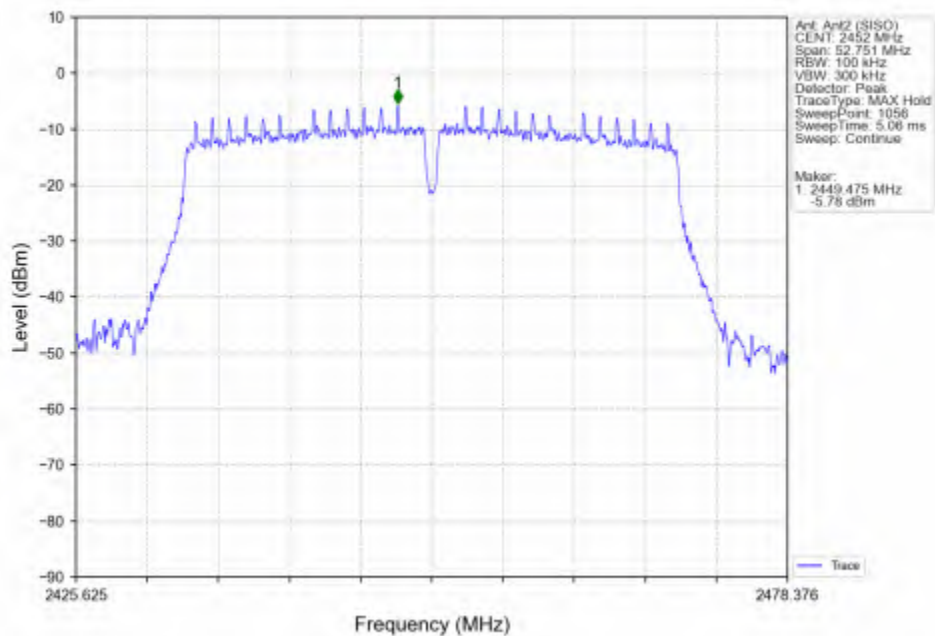


FCC ID: 2BLP-G7A1

802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

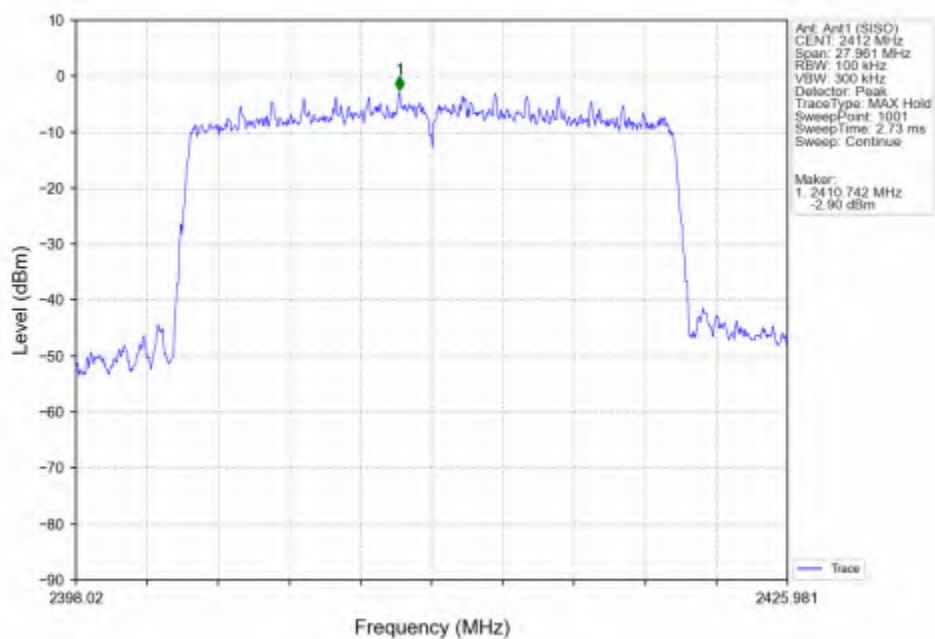


802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV

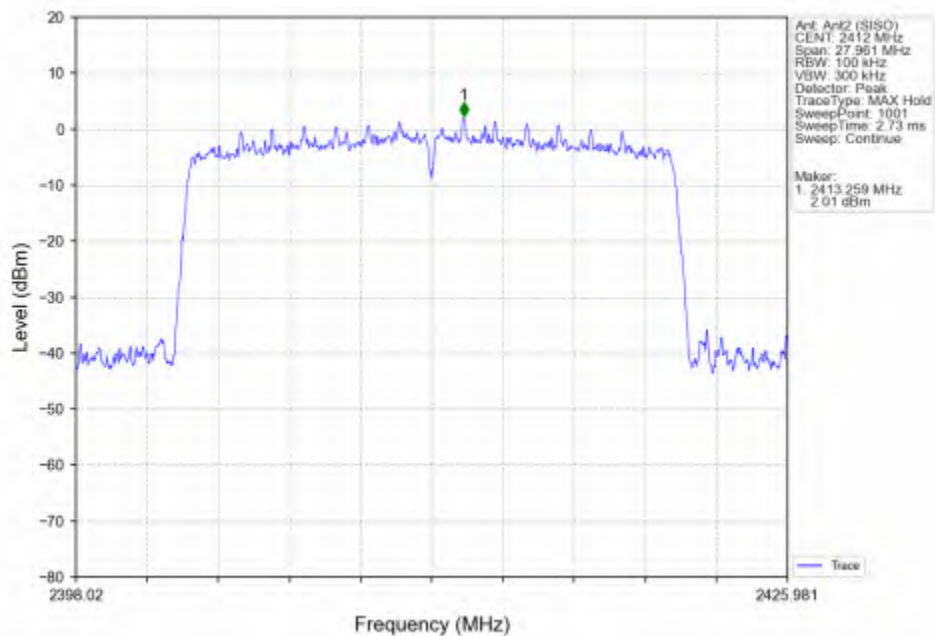


FCC ID: 2BLP-G7A1

802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV

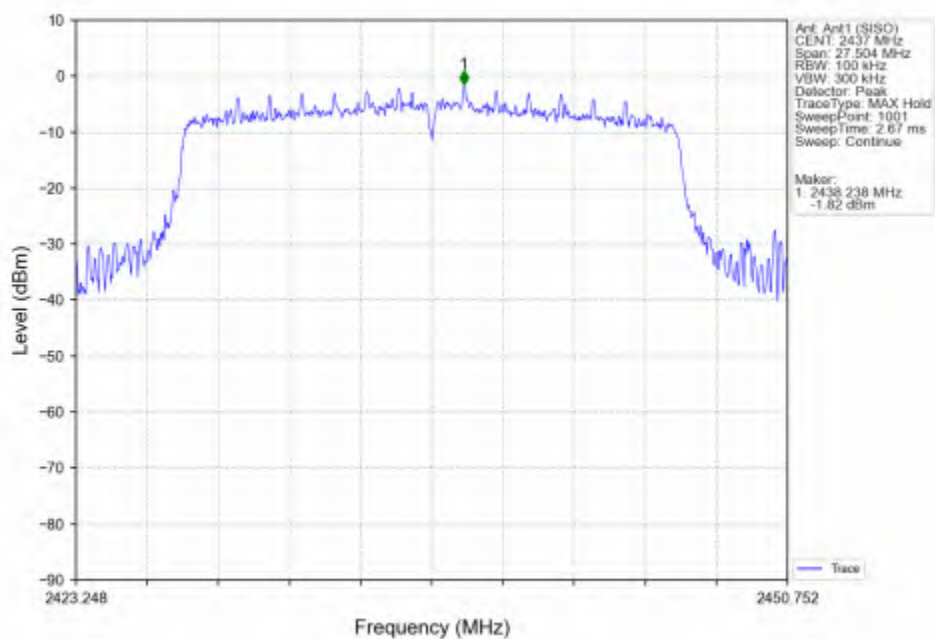


802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant2 (SISO)_NTNV

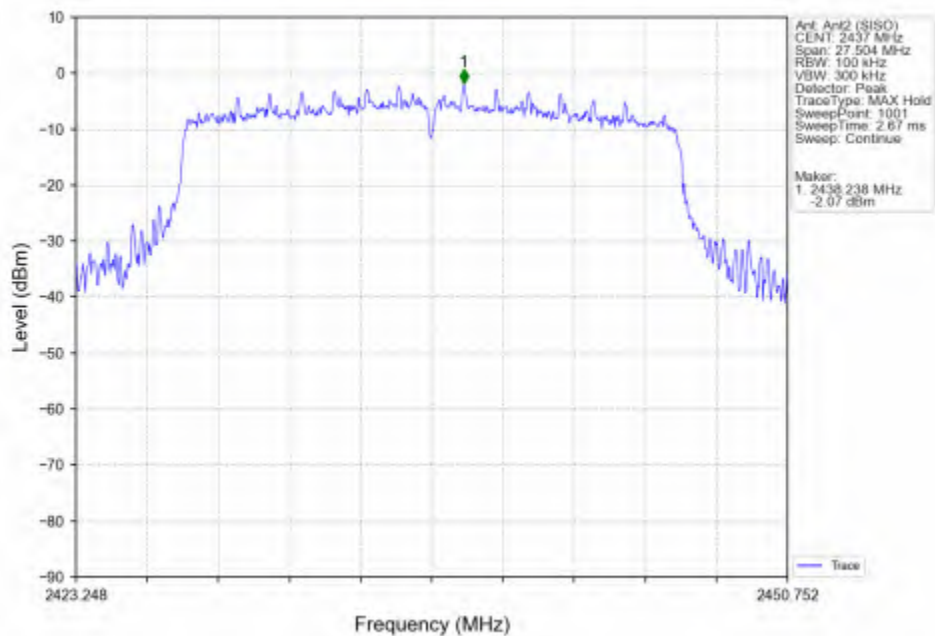


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802.11ax(HEW20) MCH_2437MHz_SU_ / _Ant1 (SISO)_NTNV

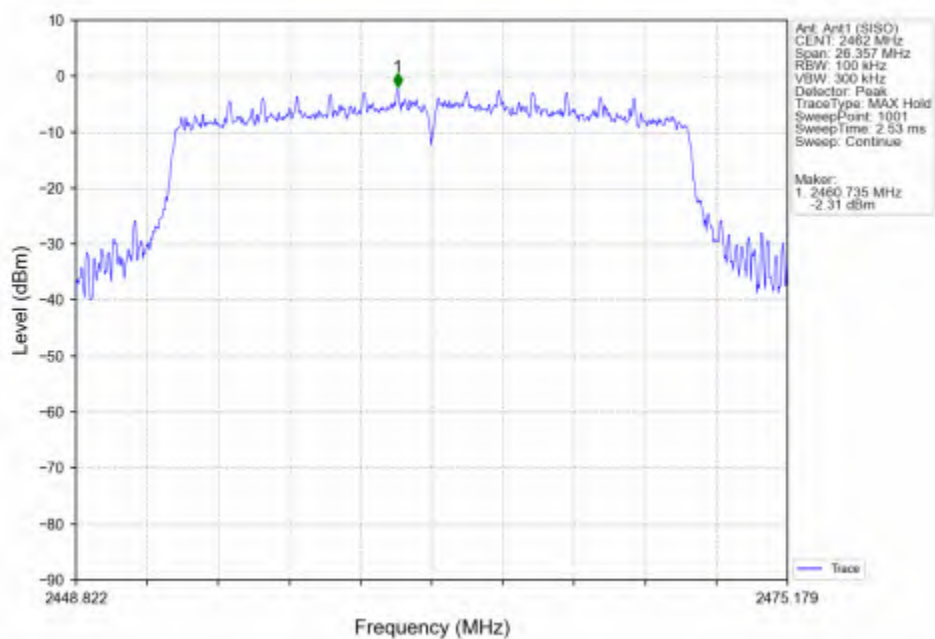


802.11ax(HEW20) MCH_2437MHz_SU_ / _Ant2 (SISO)_NTNV

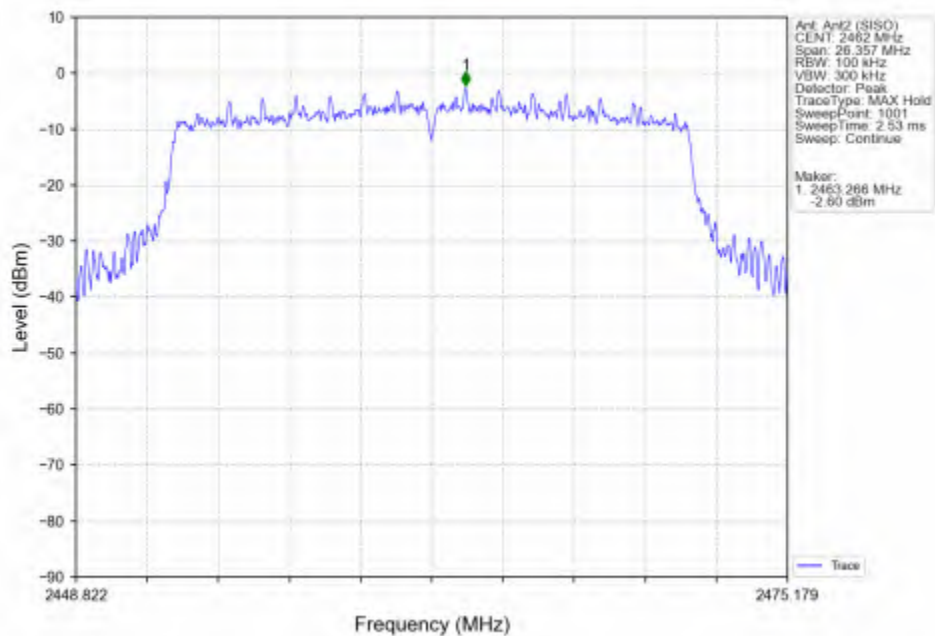


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802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV

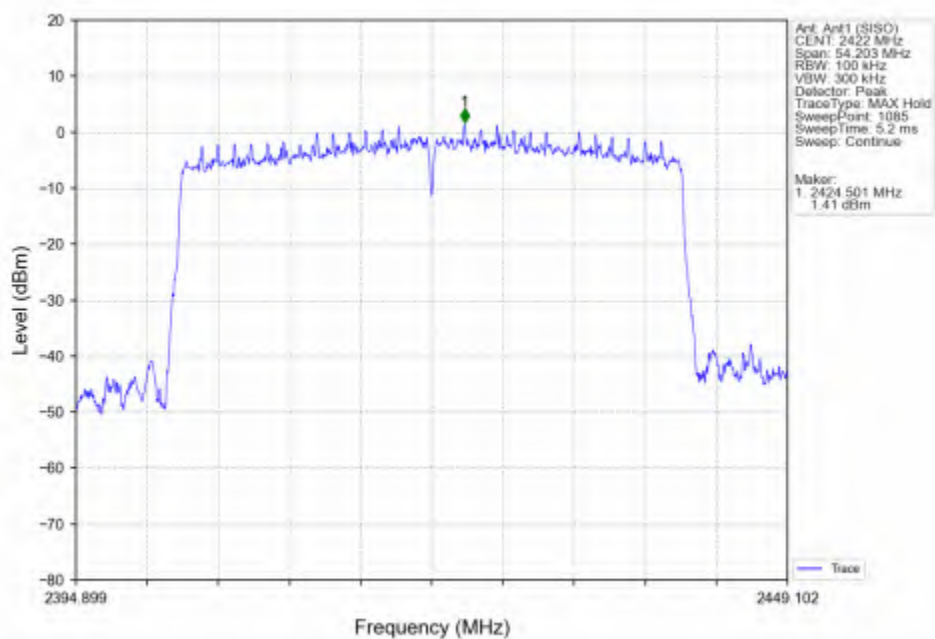


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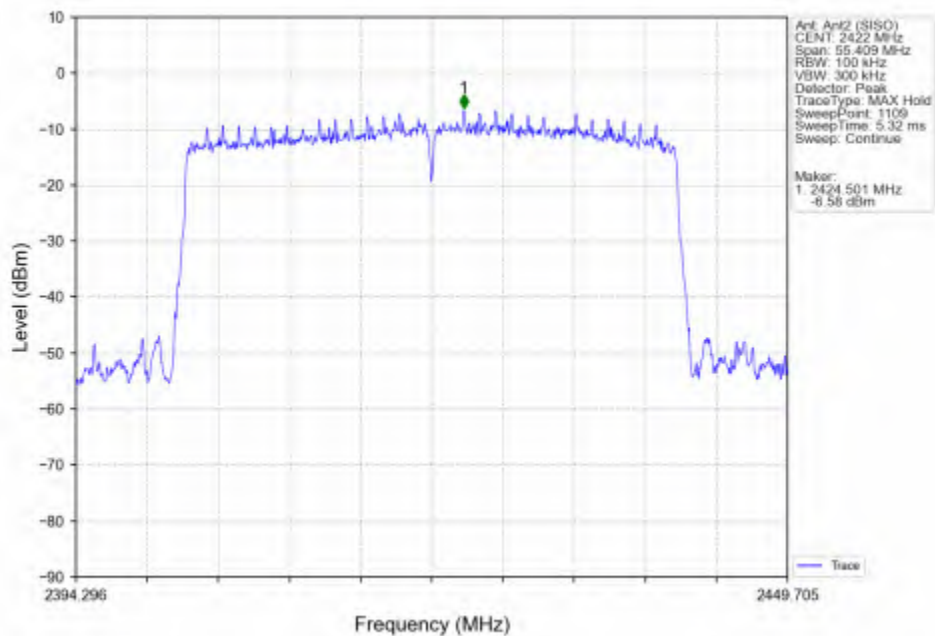


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802.11ax(HEW40)_LCH_2422MHz_SU / _Ant1 (SISO)_NTNV

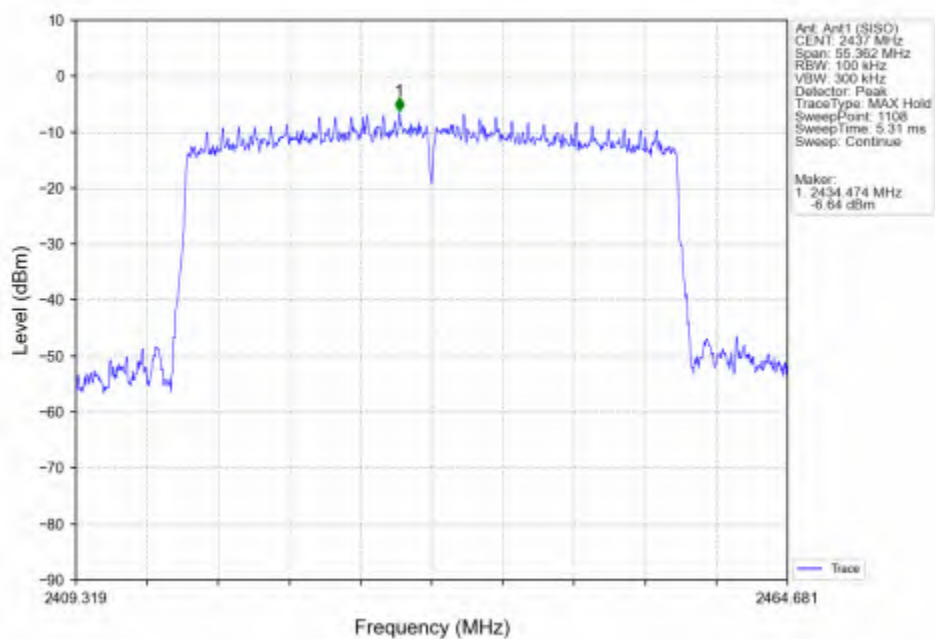


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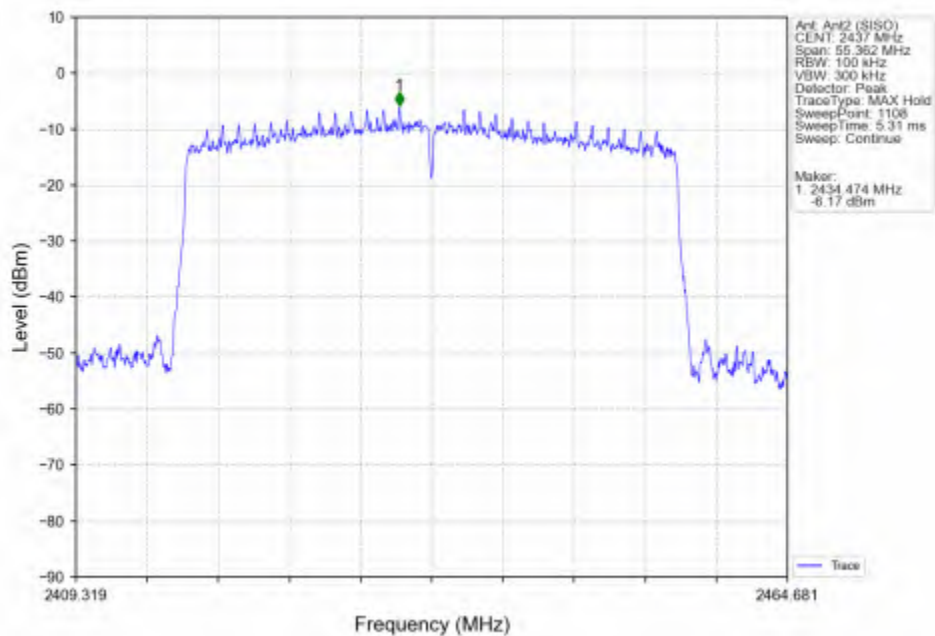


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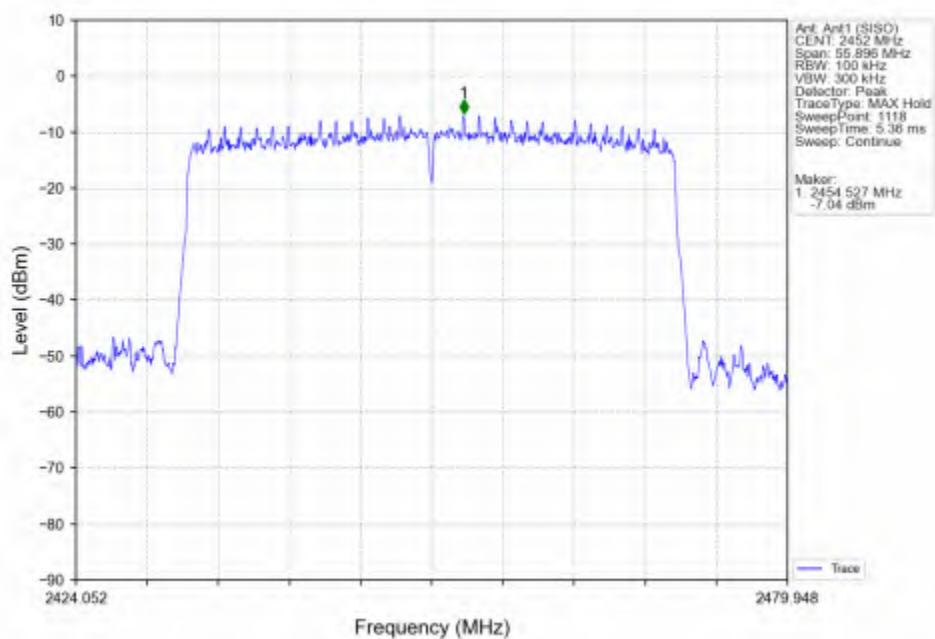


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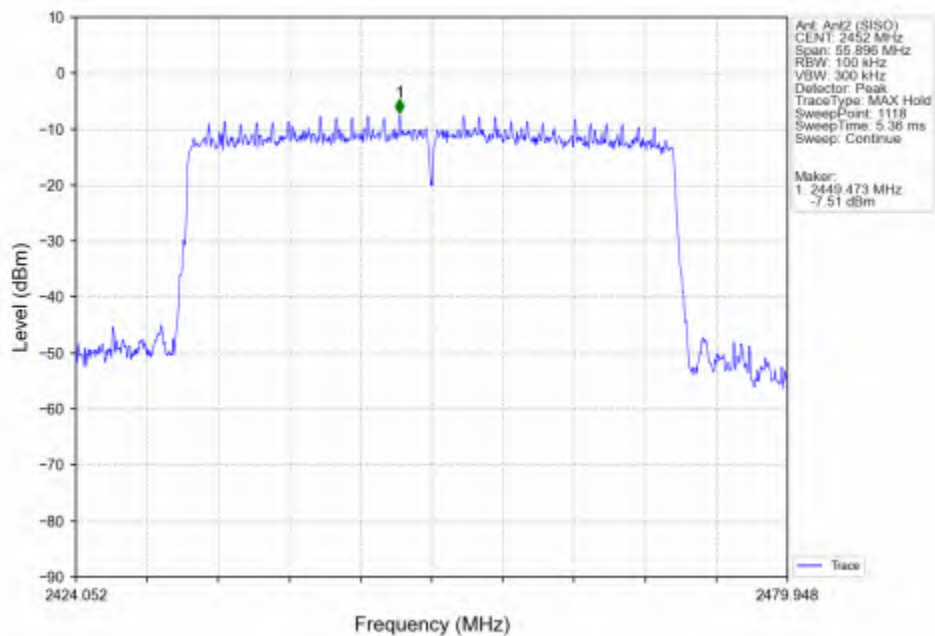


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802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



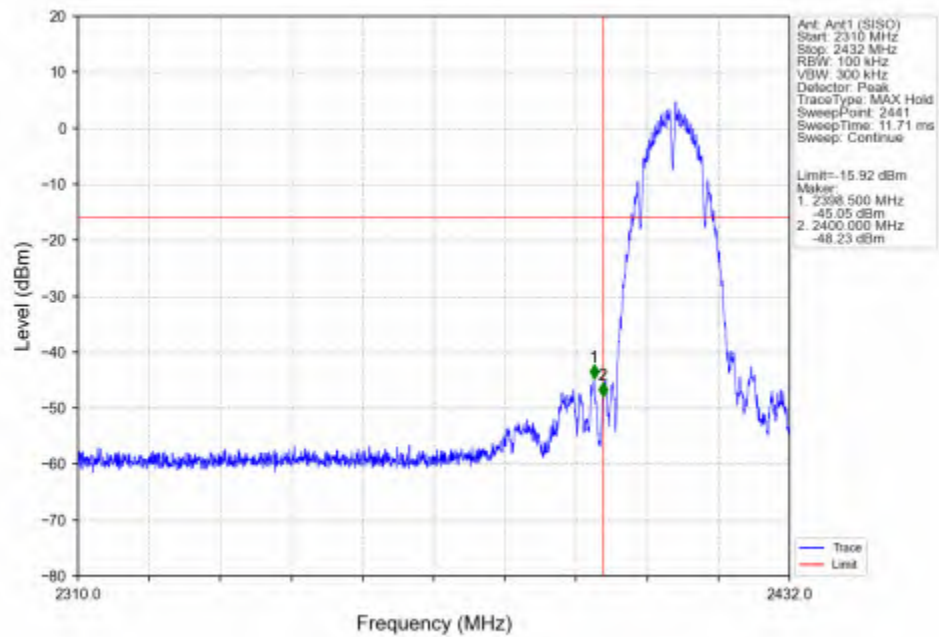
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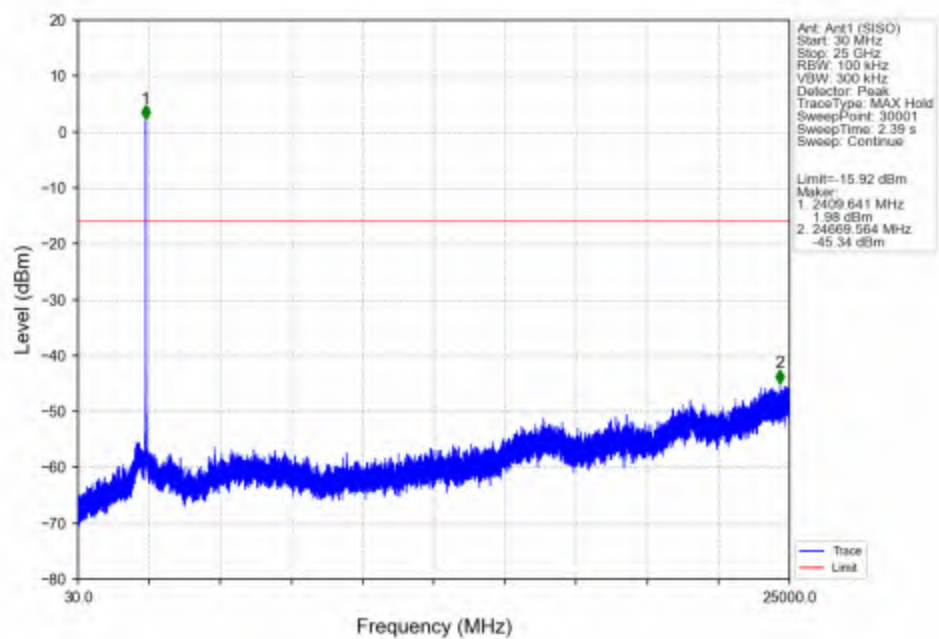
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5.2.2 CSE

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

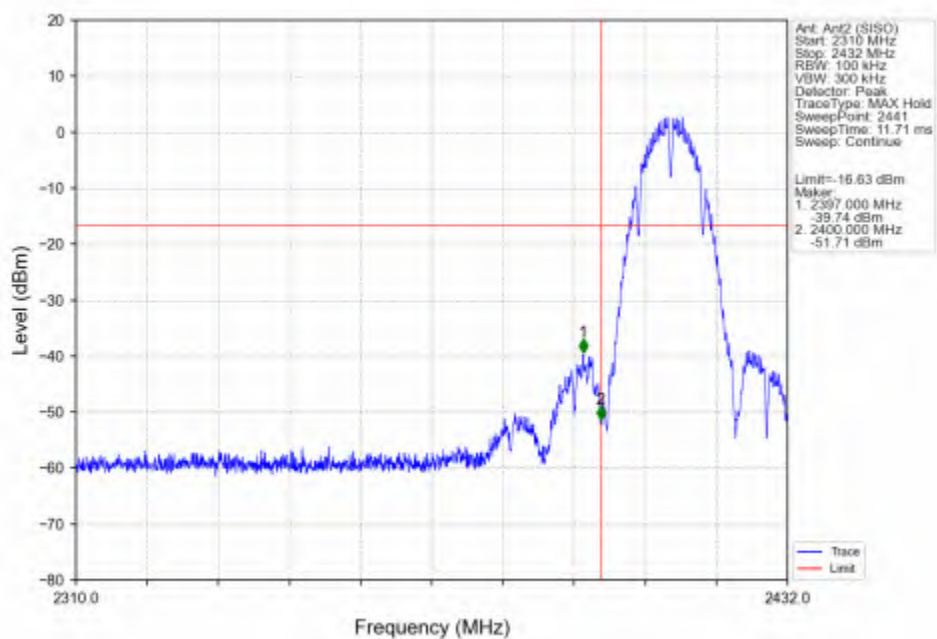


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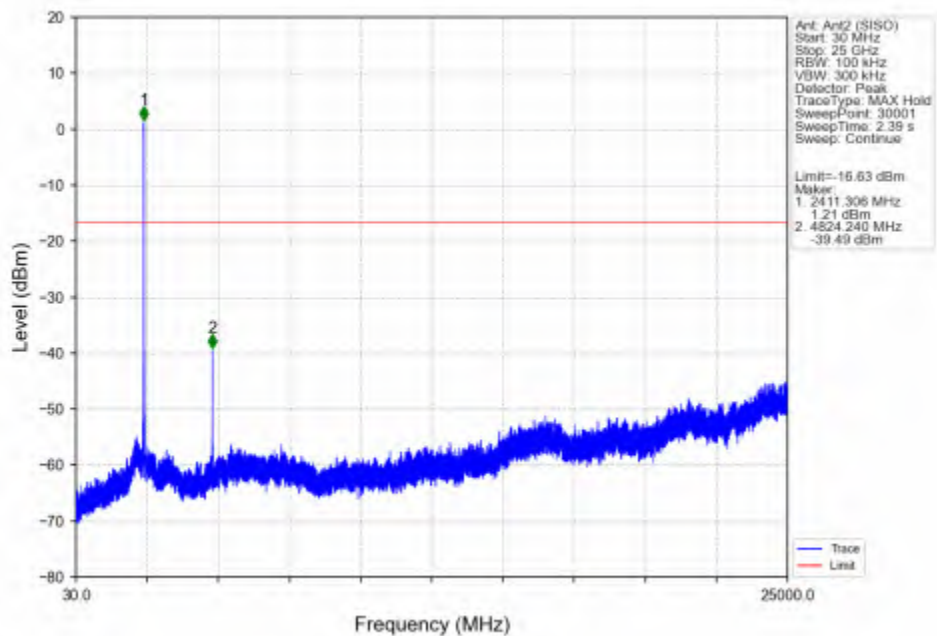


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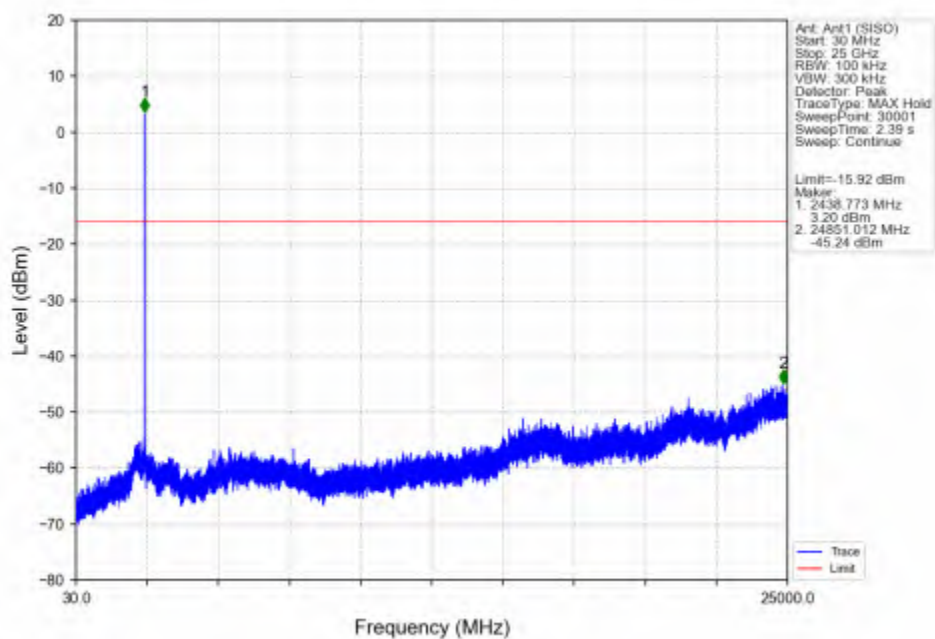


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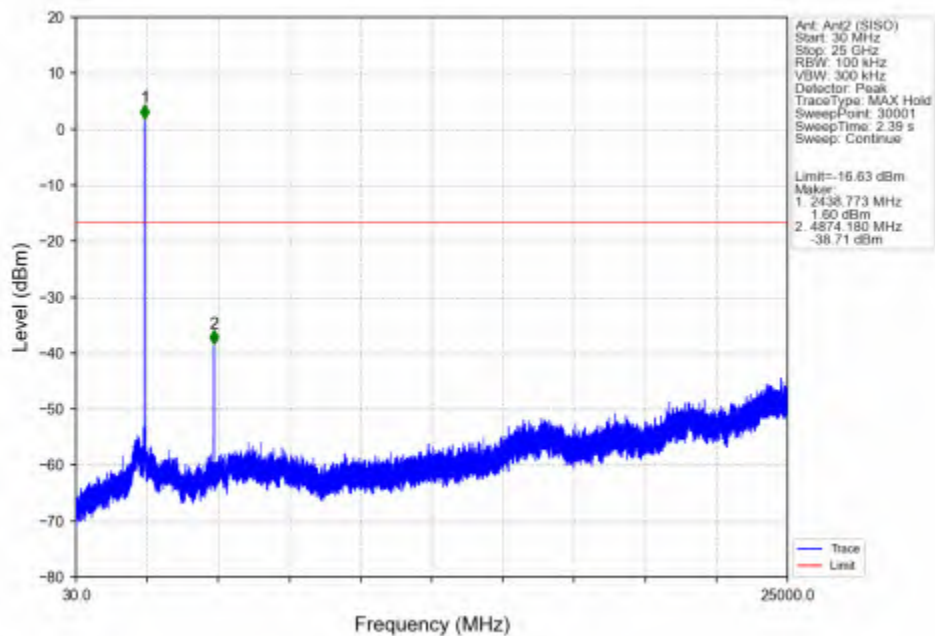


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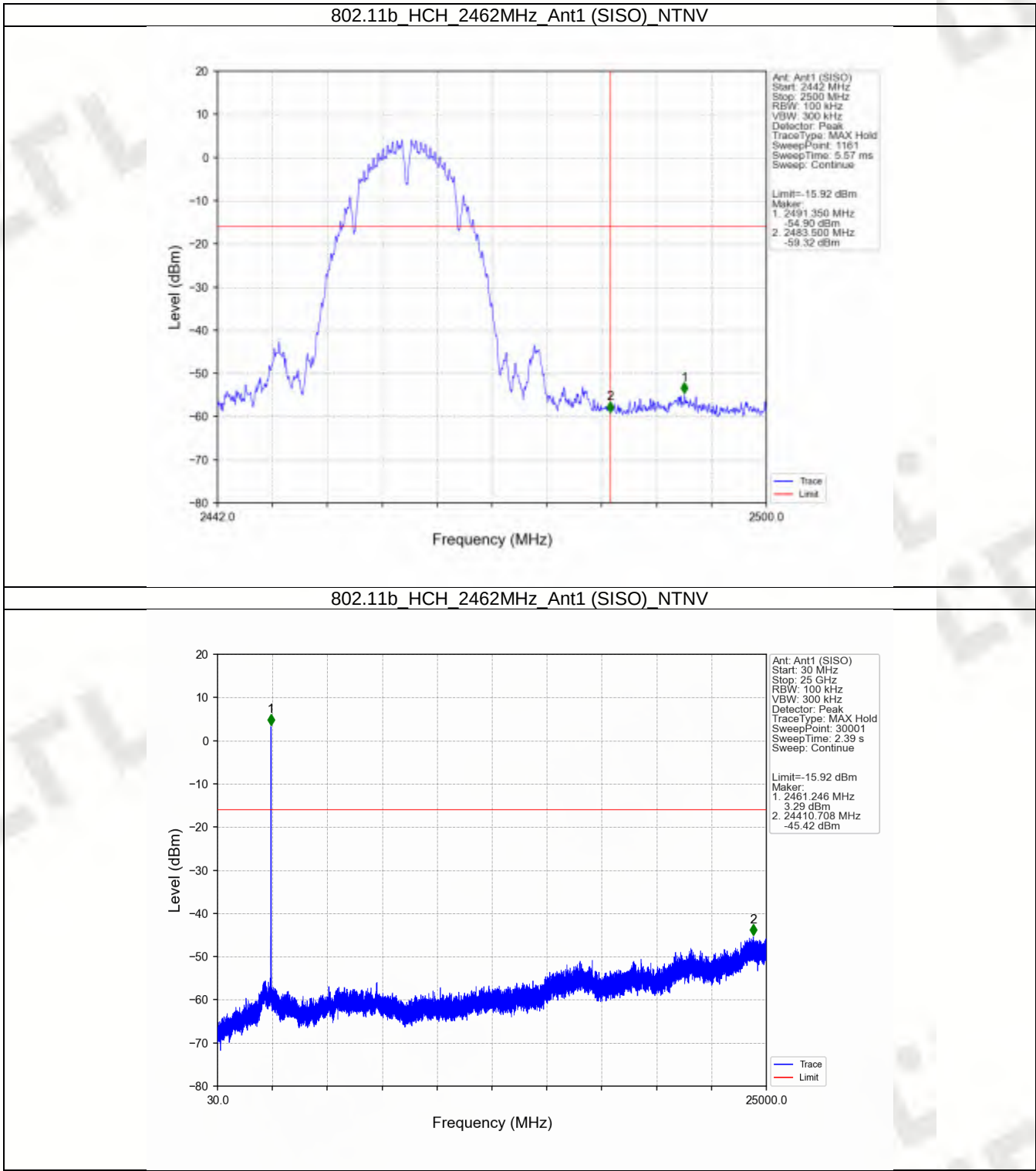
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

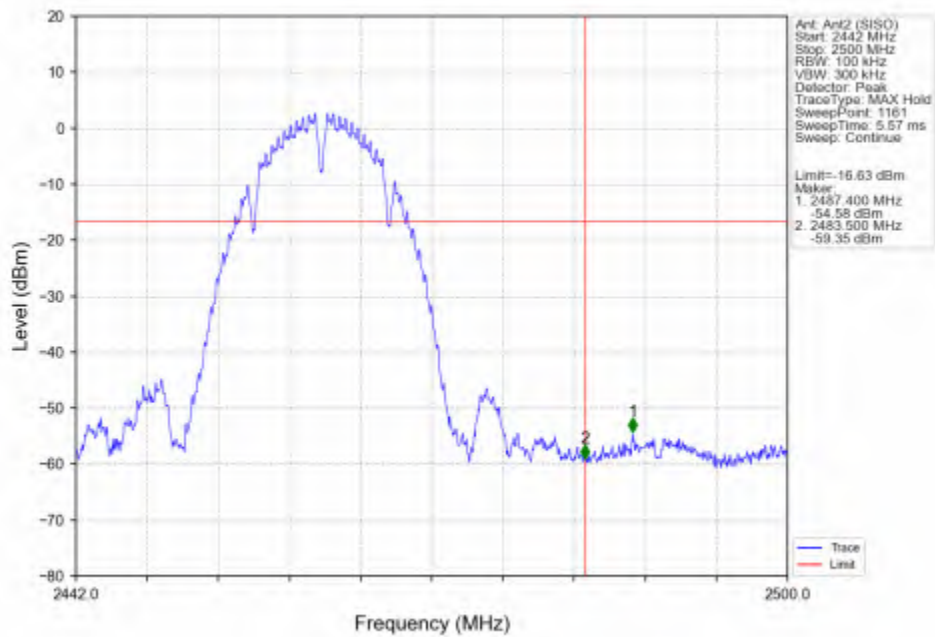


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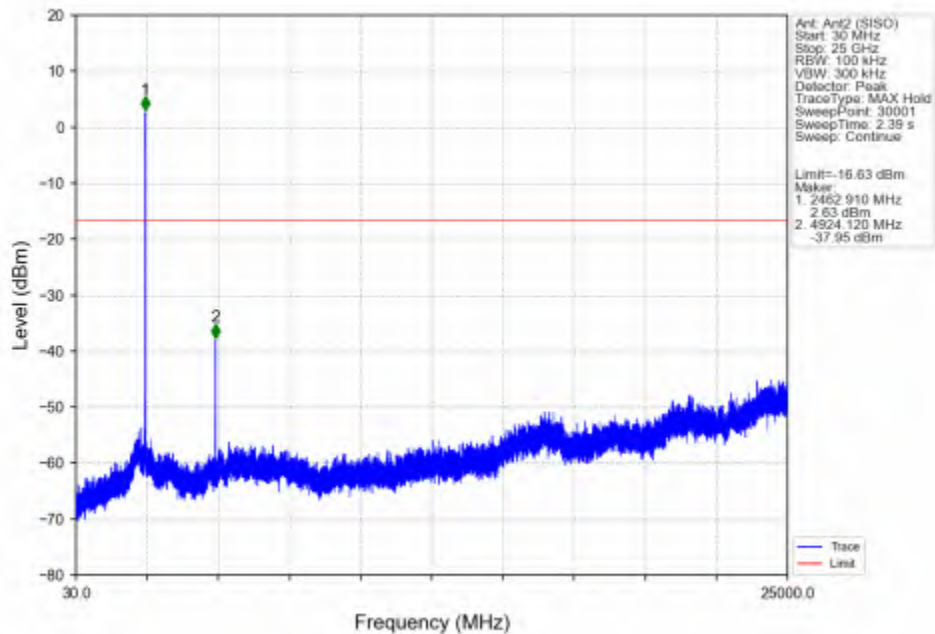


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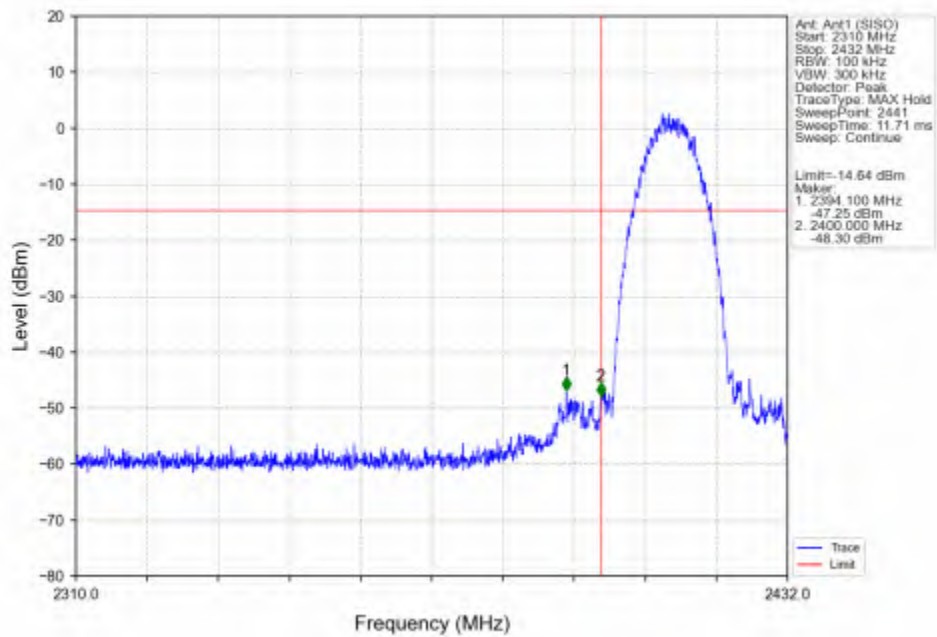


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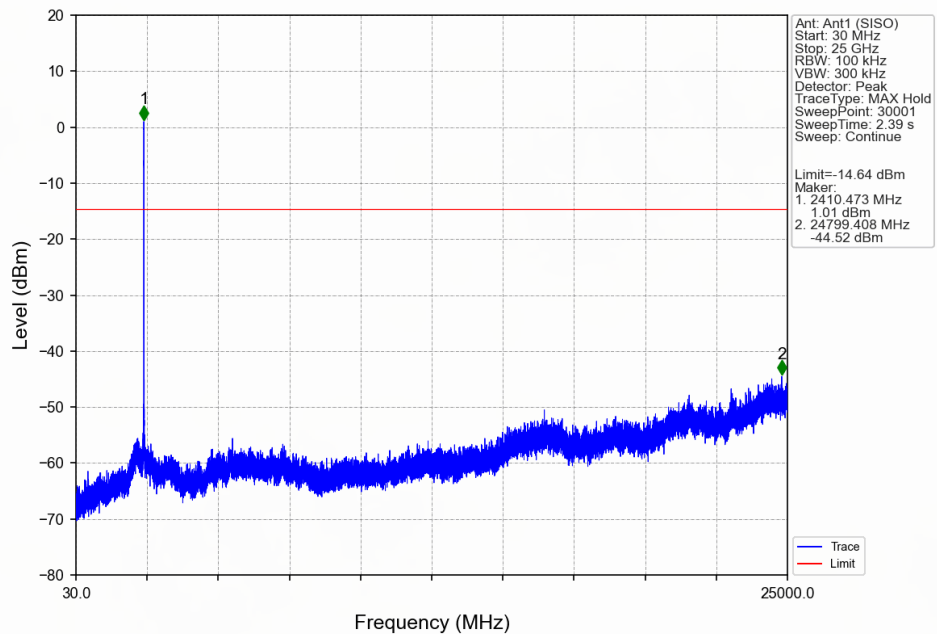


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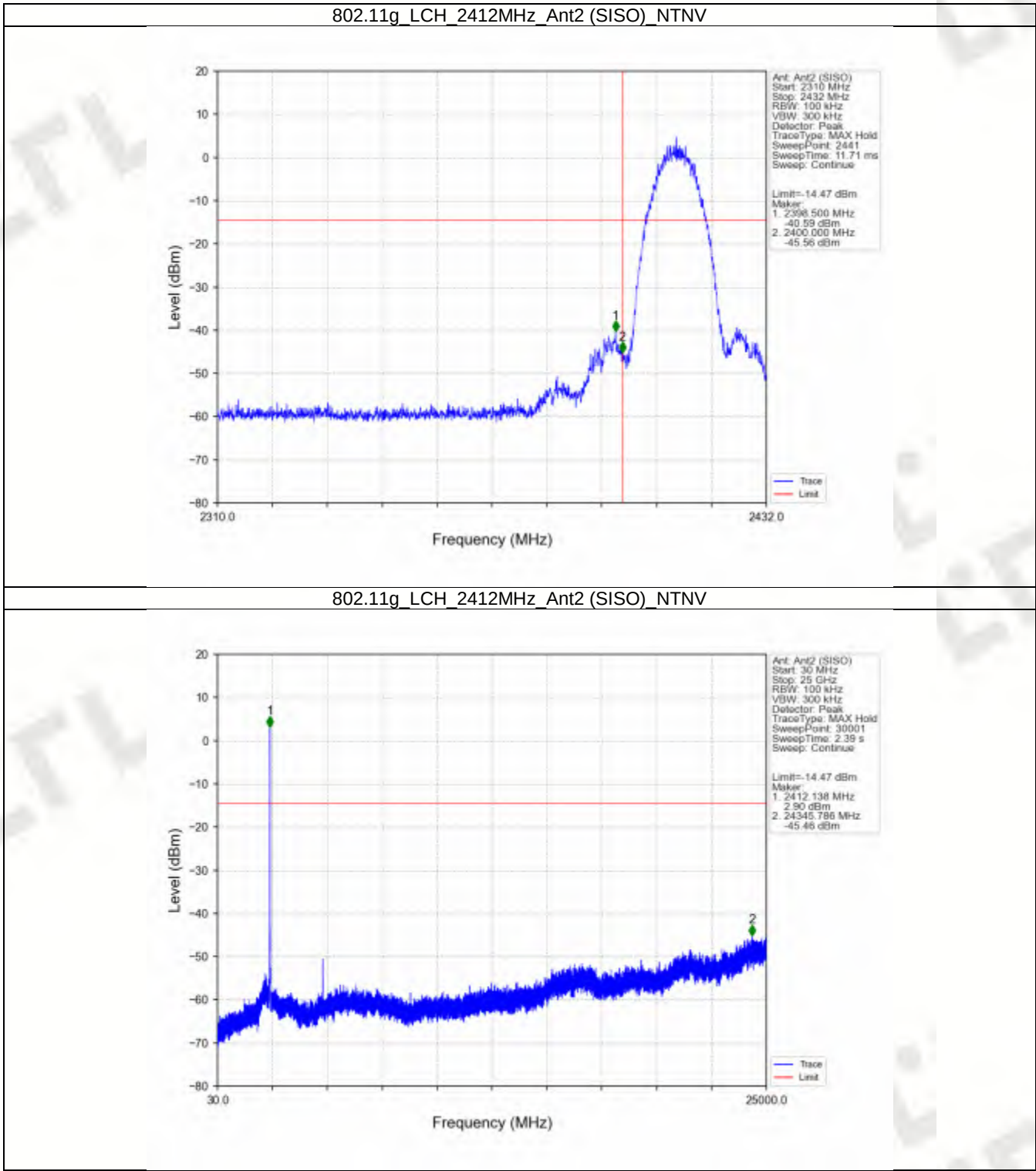
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

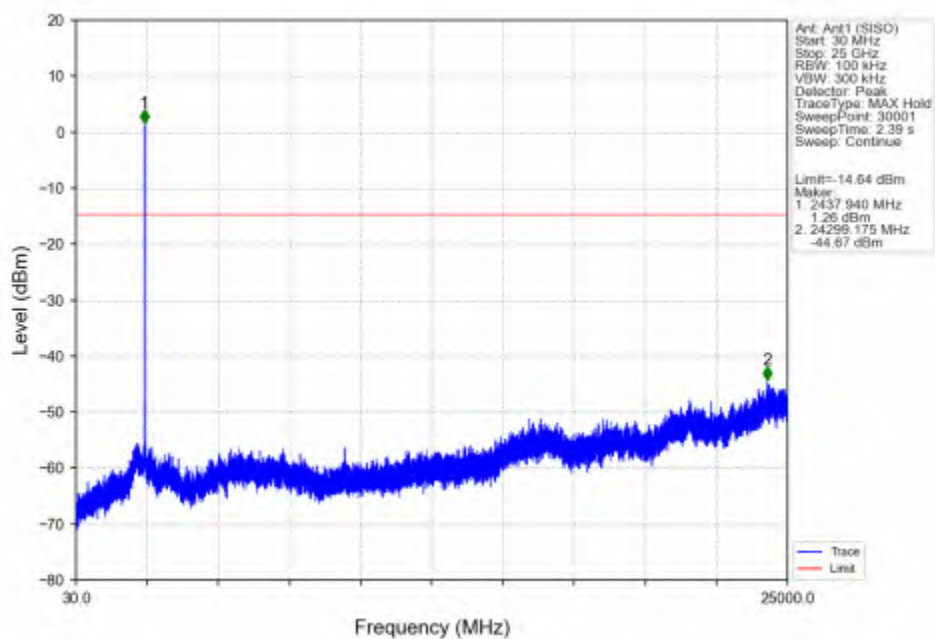


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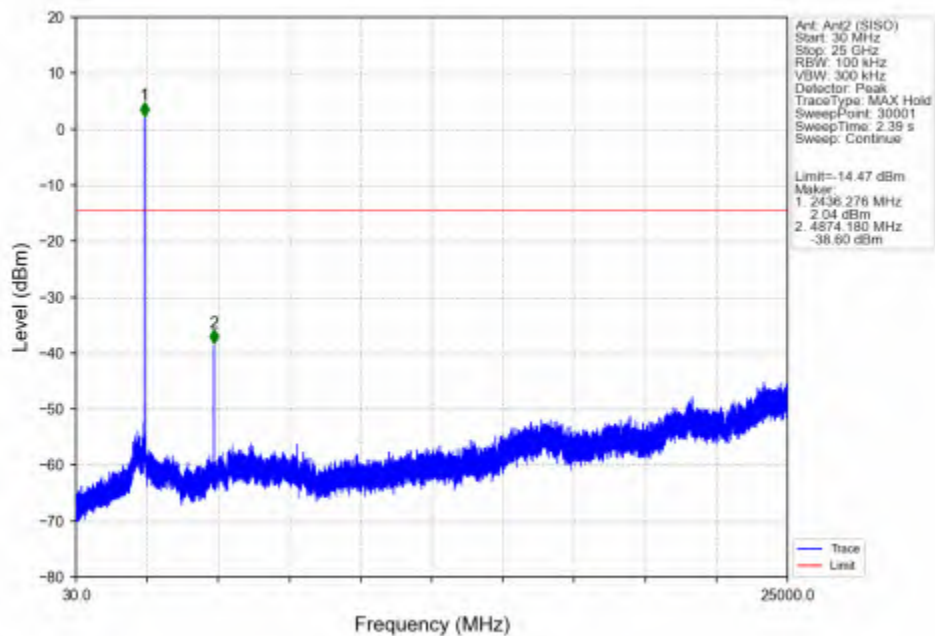


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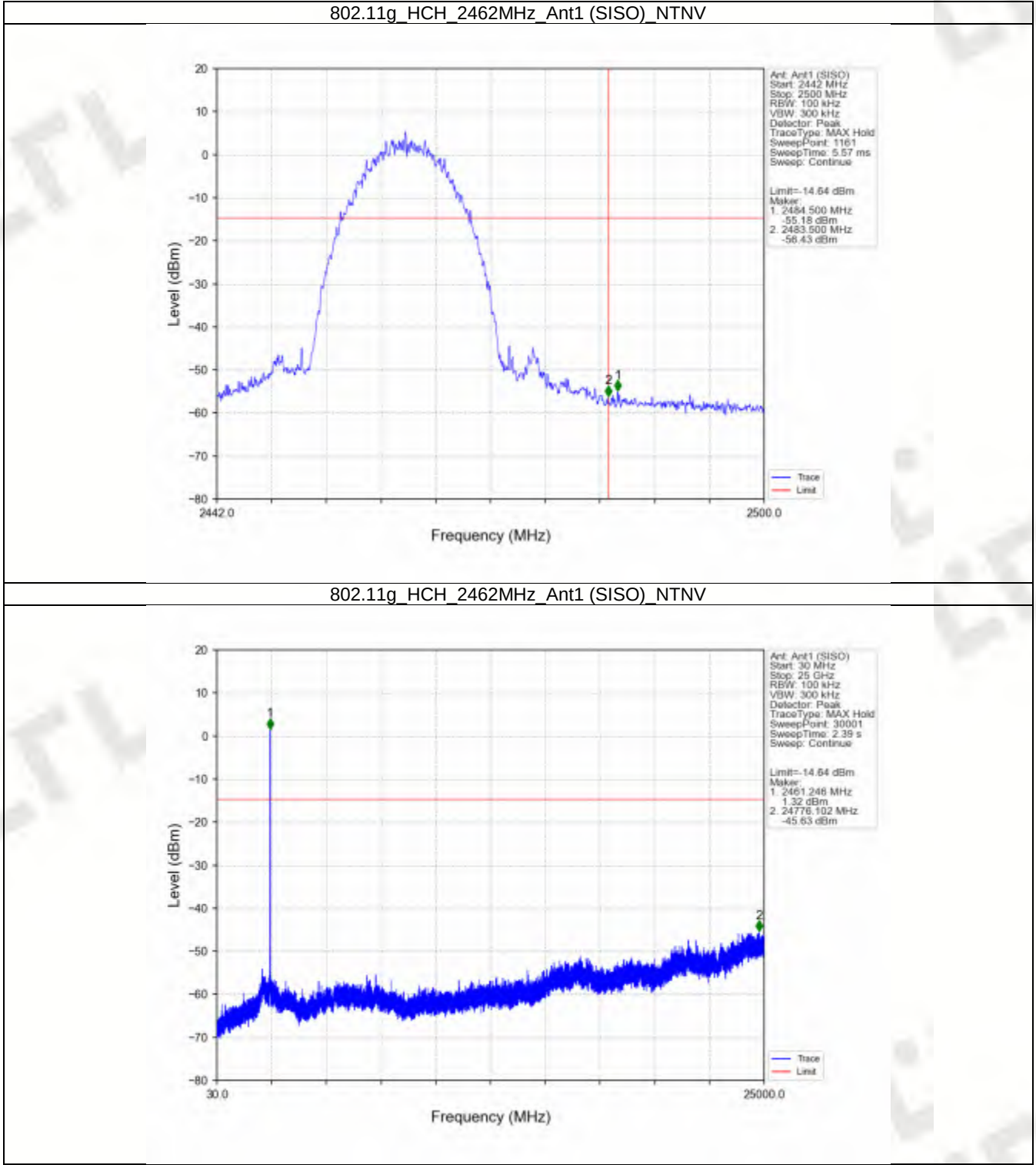
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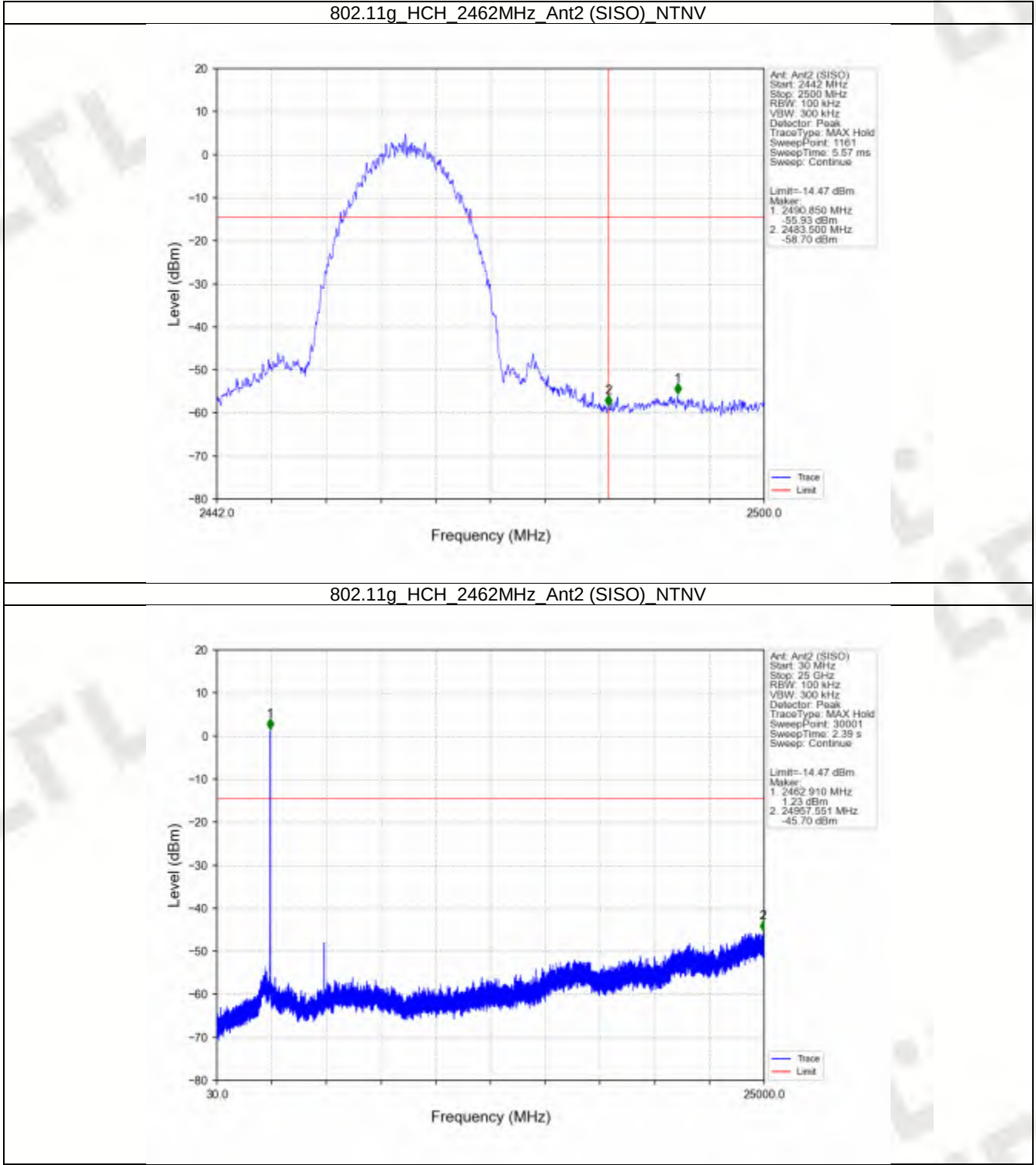
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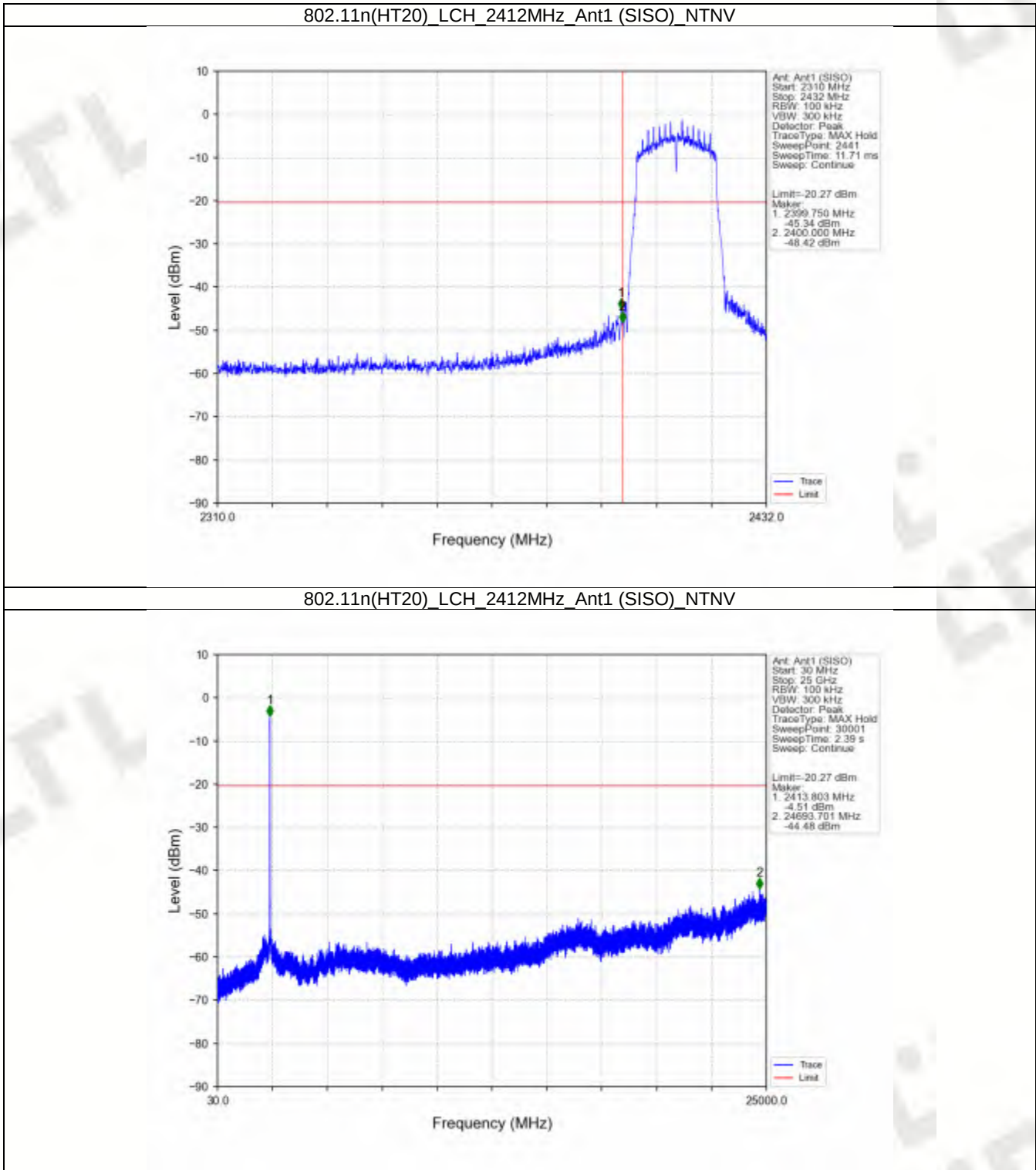
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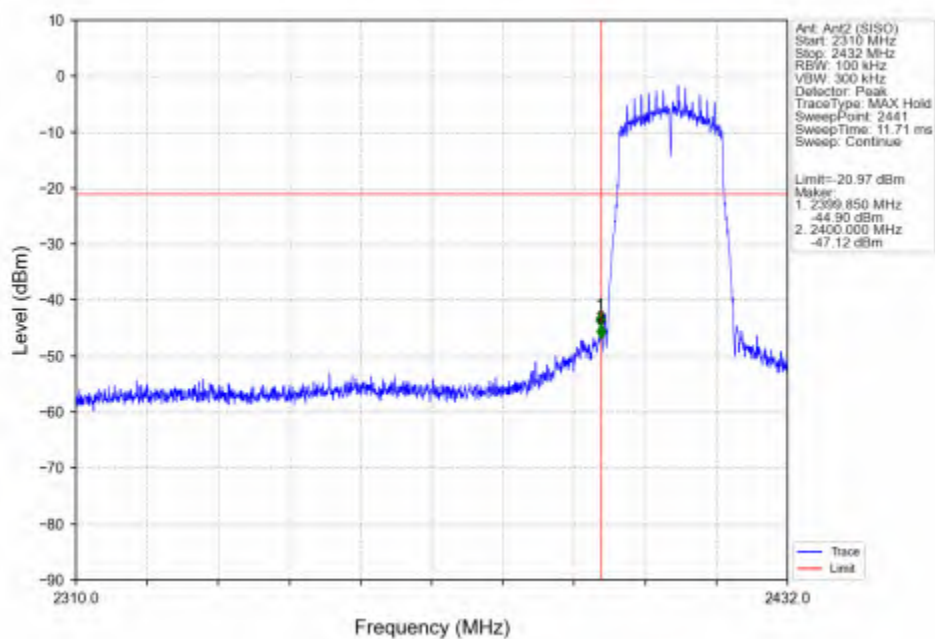


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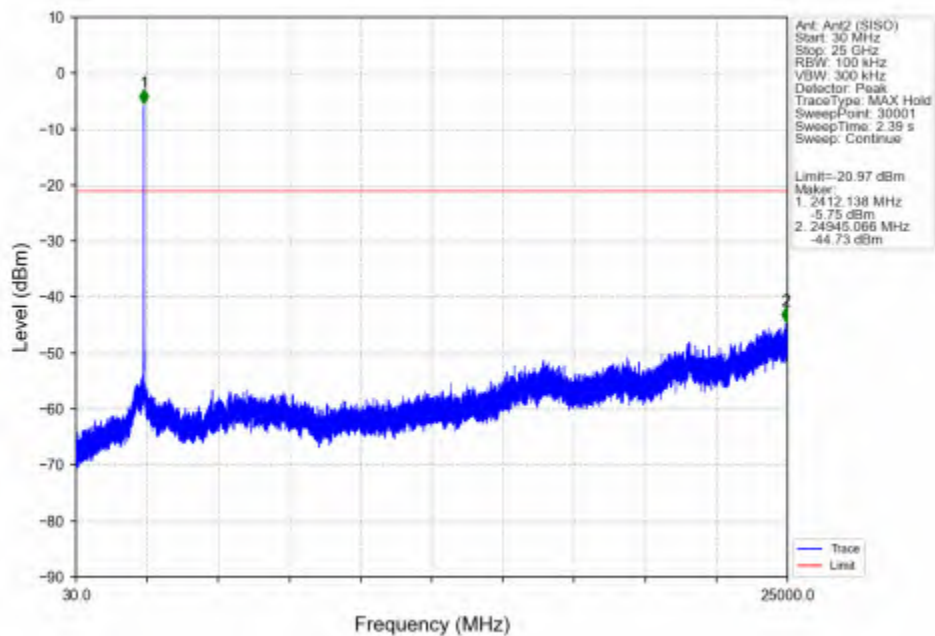


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802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV

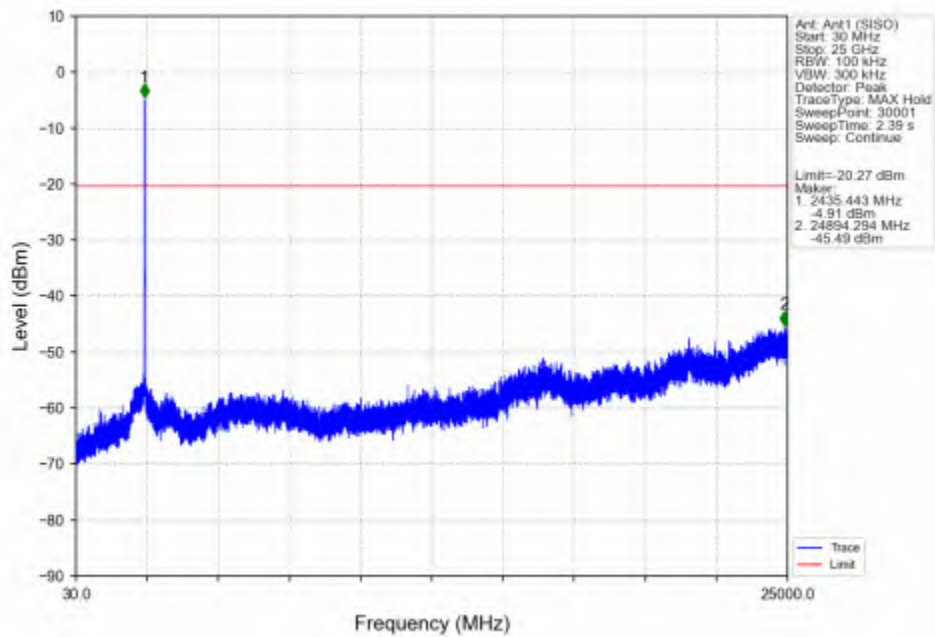


802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV

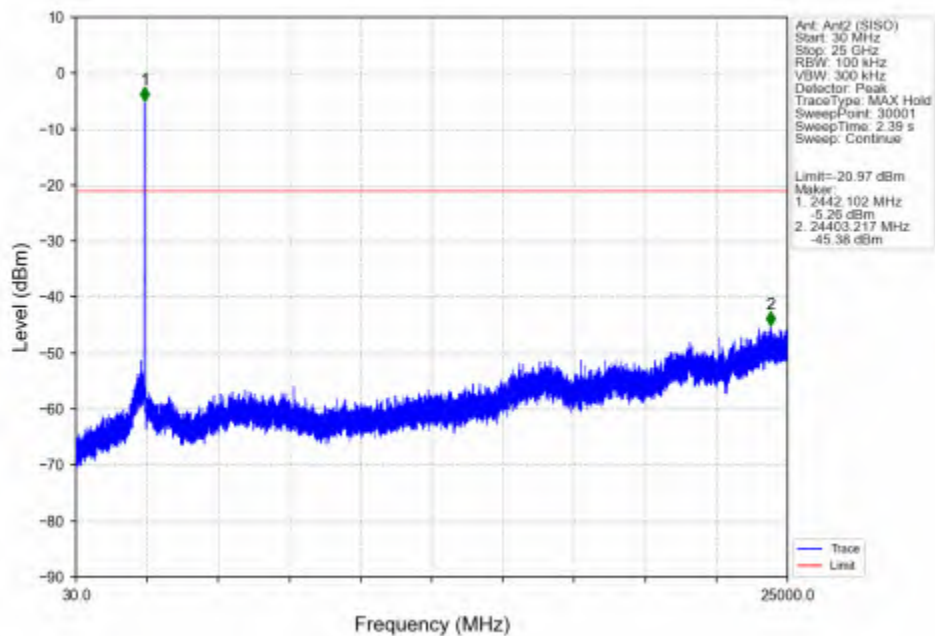


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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

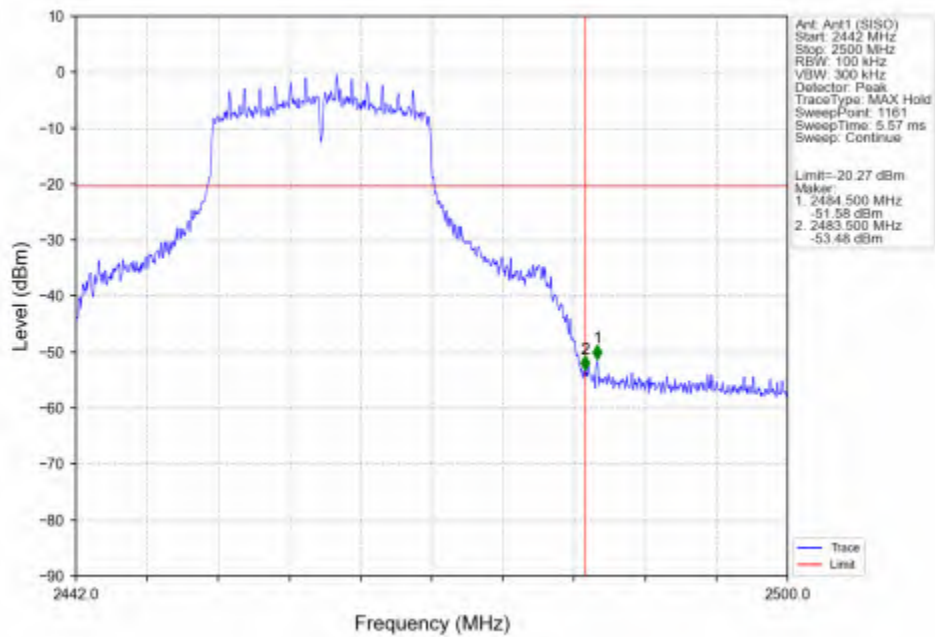


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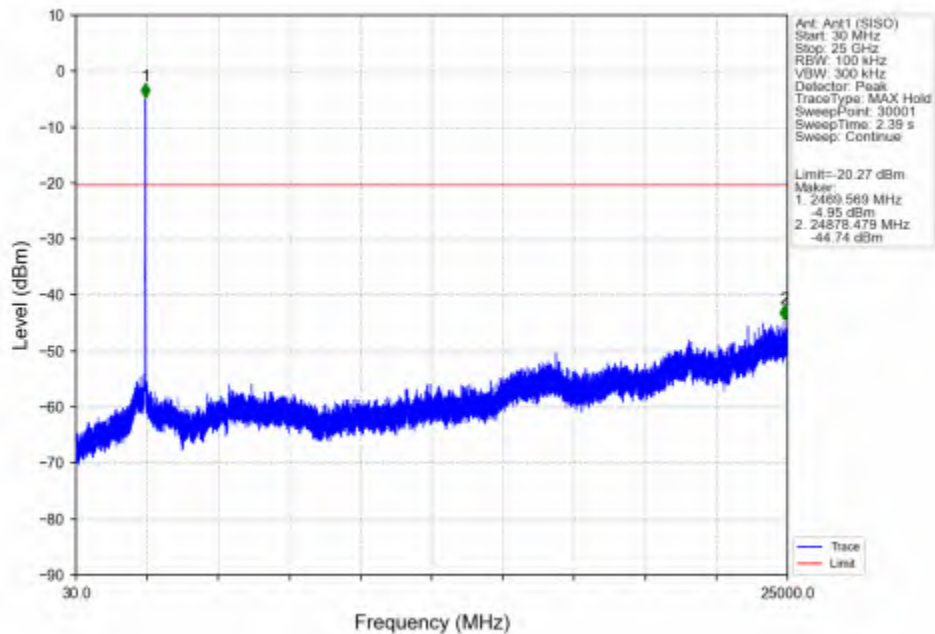


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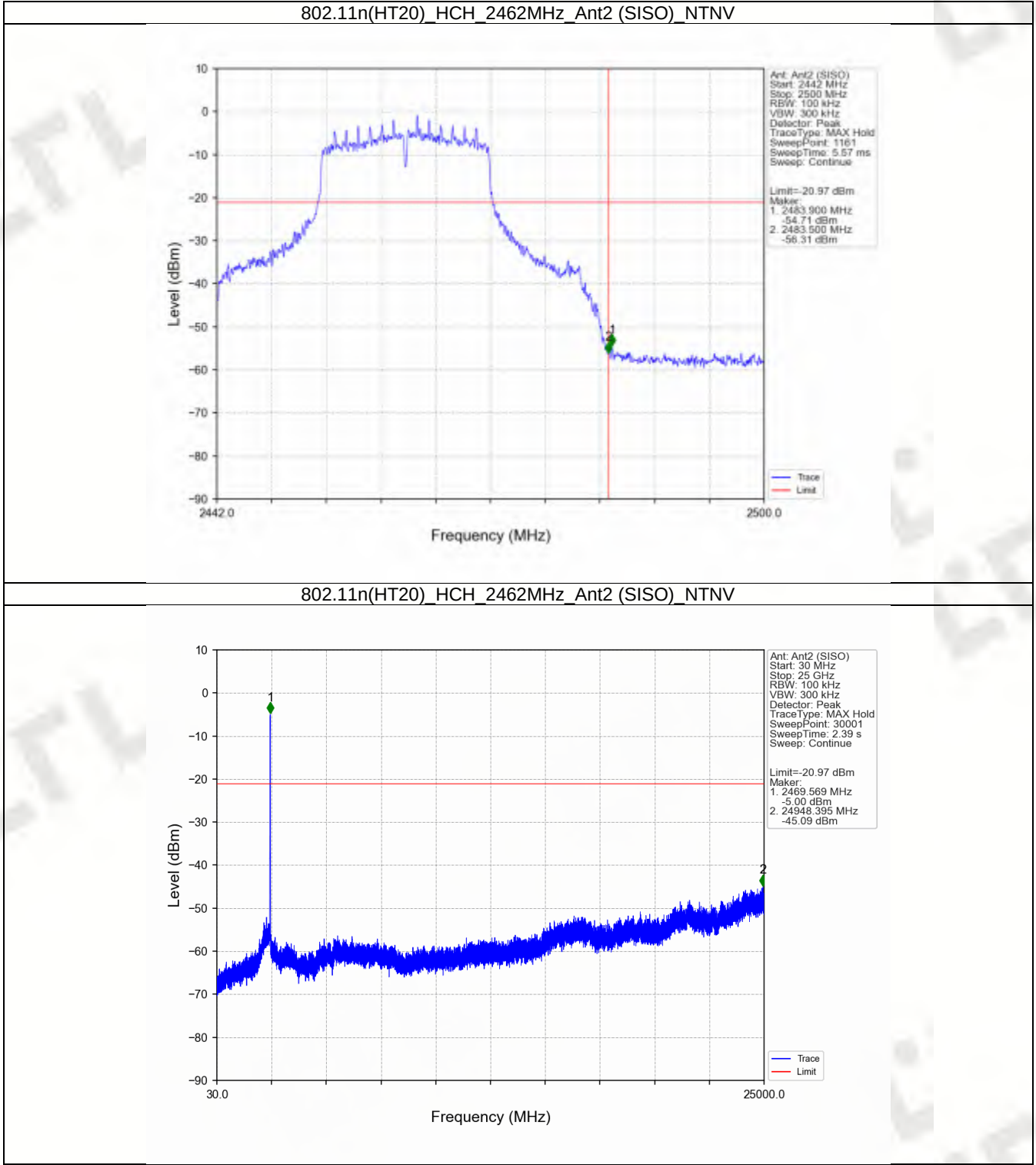
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

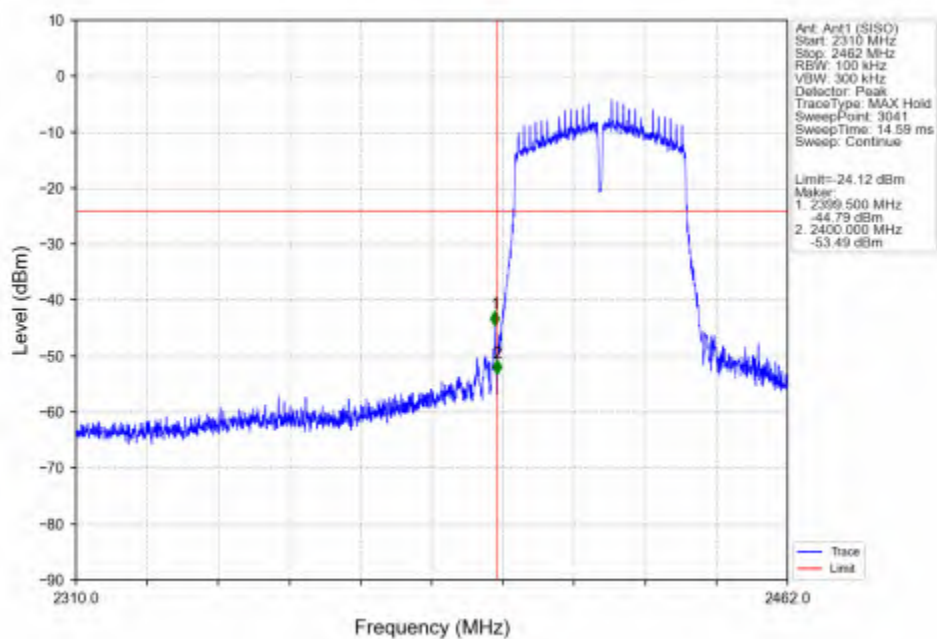


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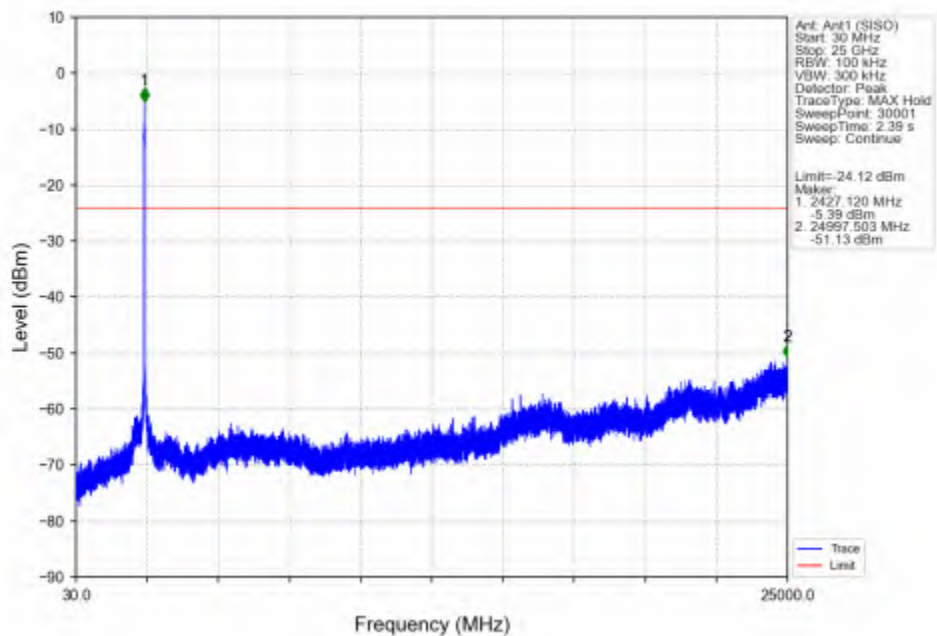


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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

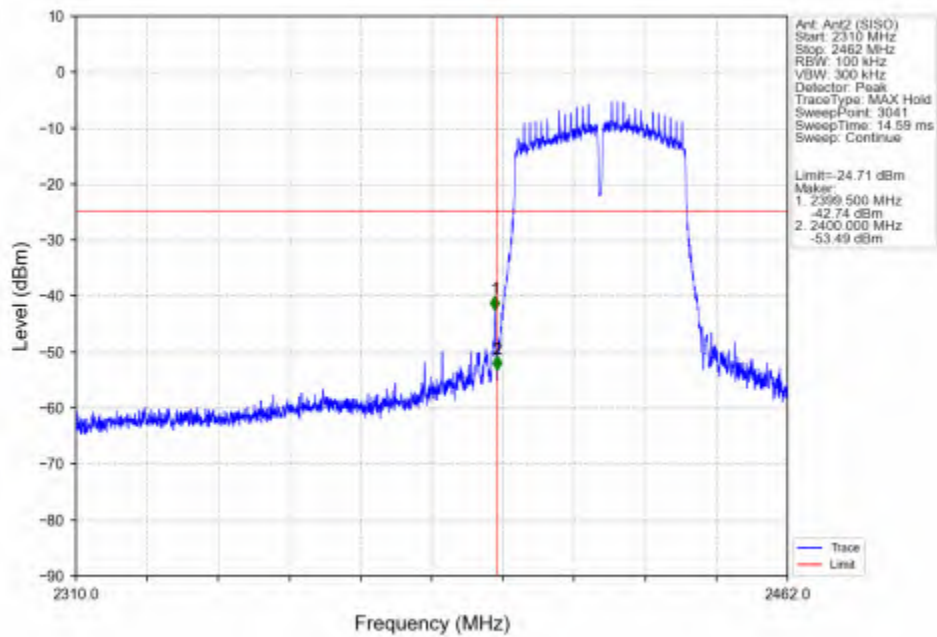


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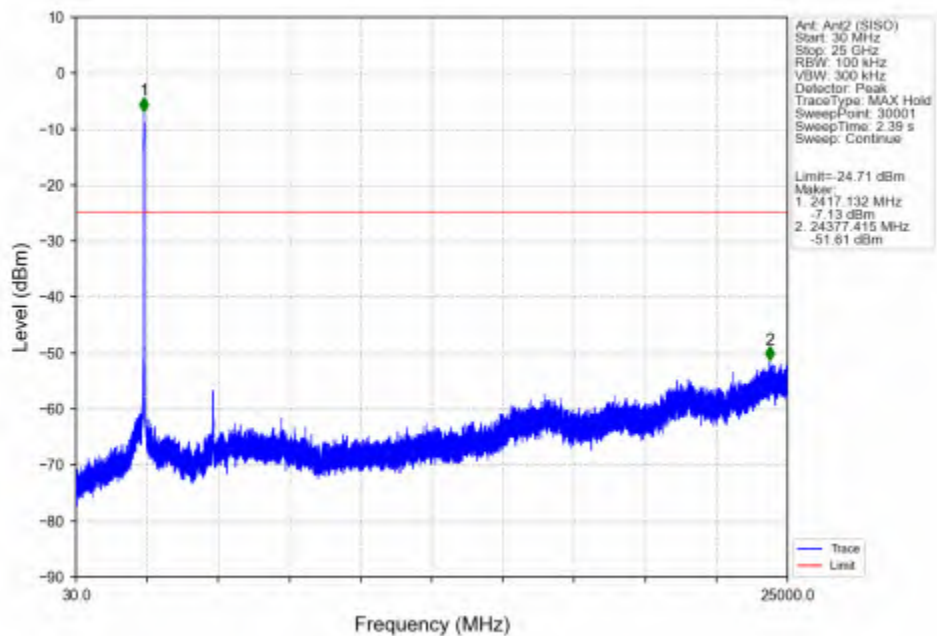


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802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV

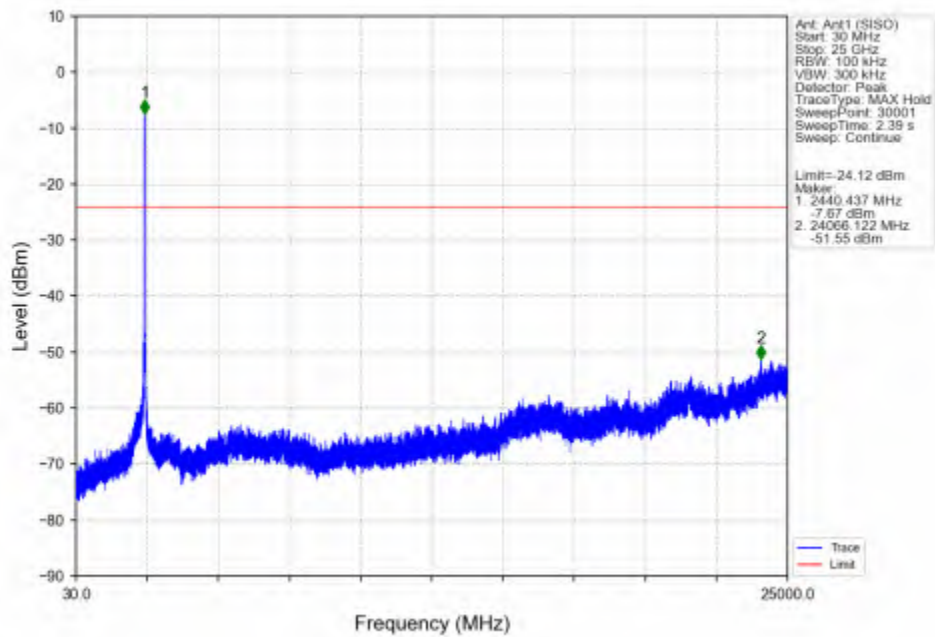


802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV

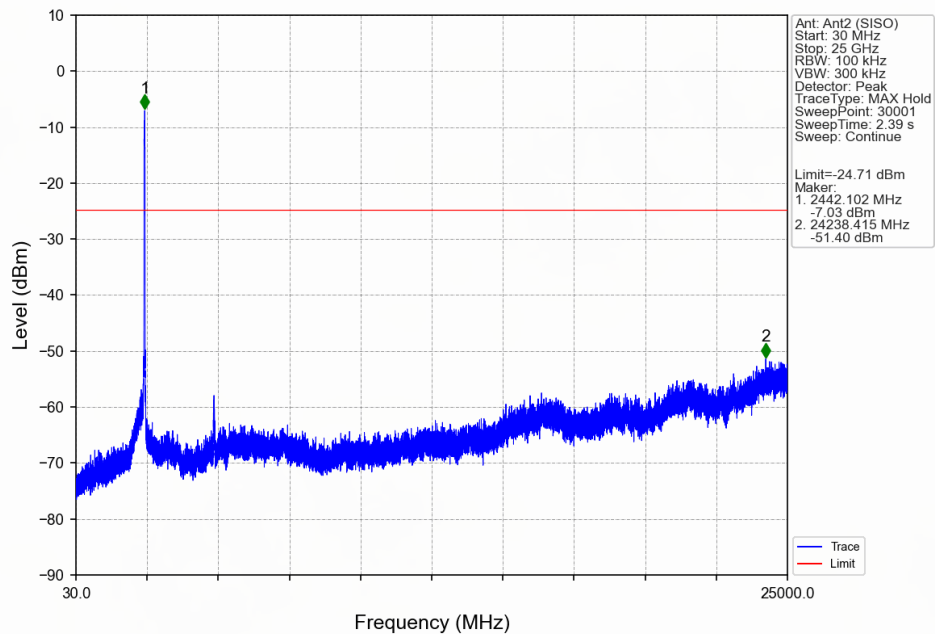


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

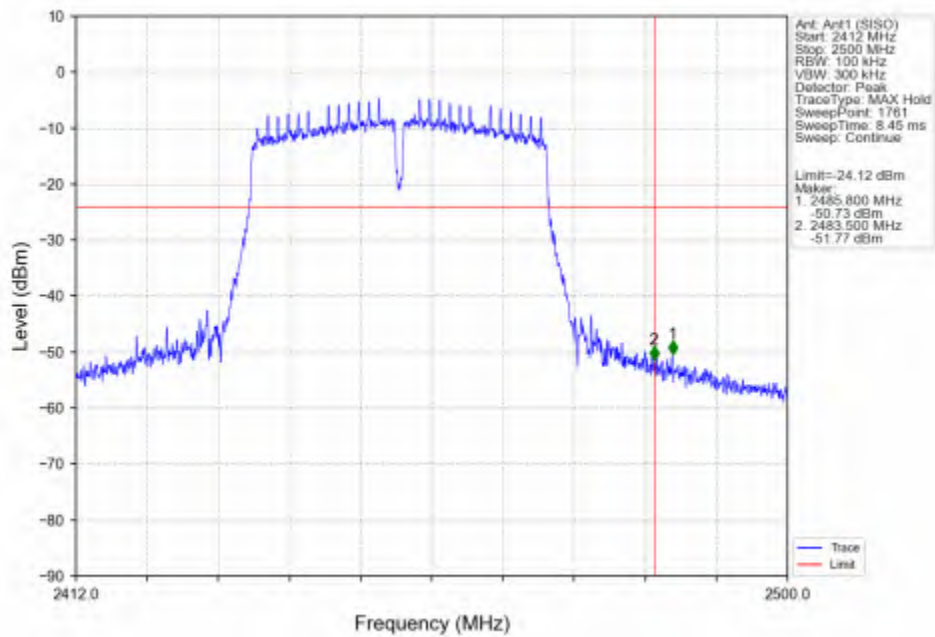


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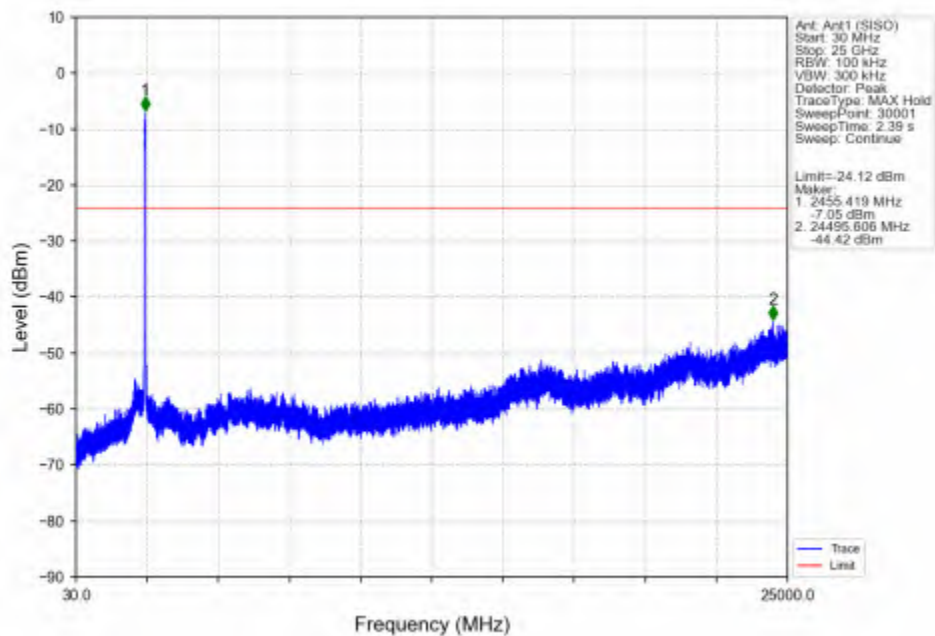


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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

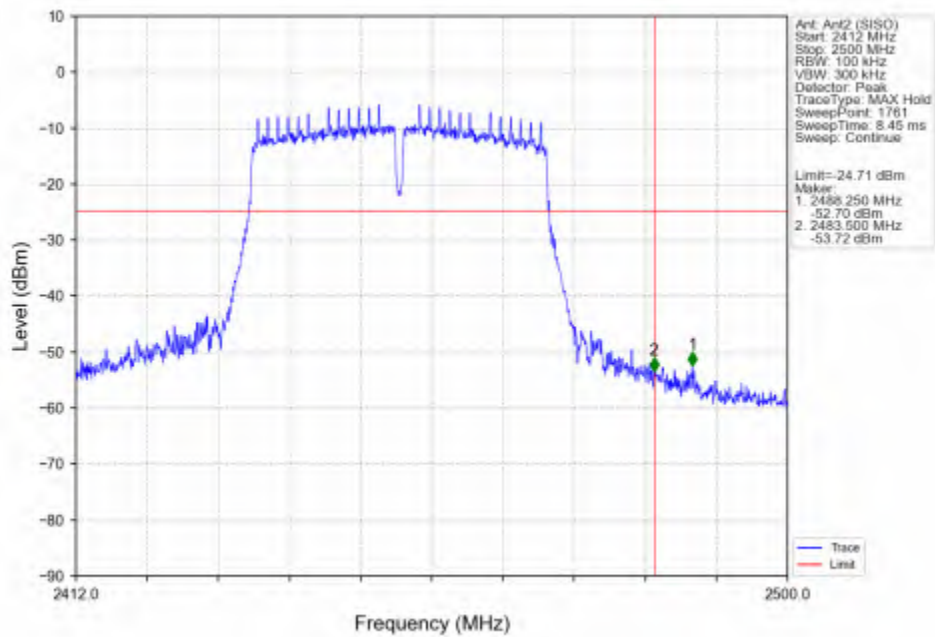


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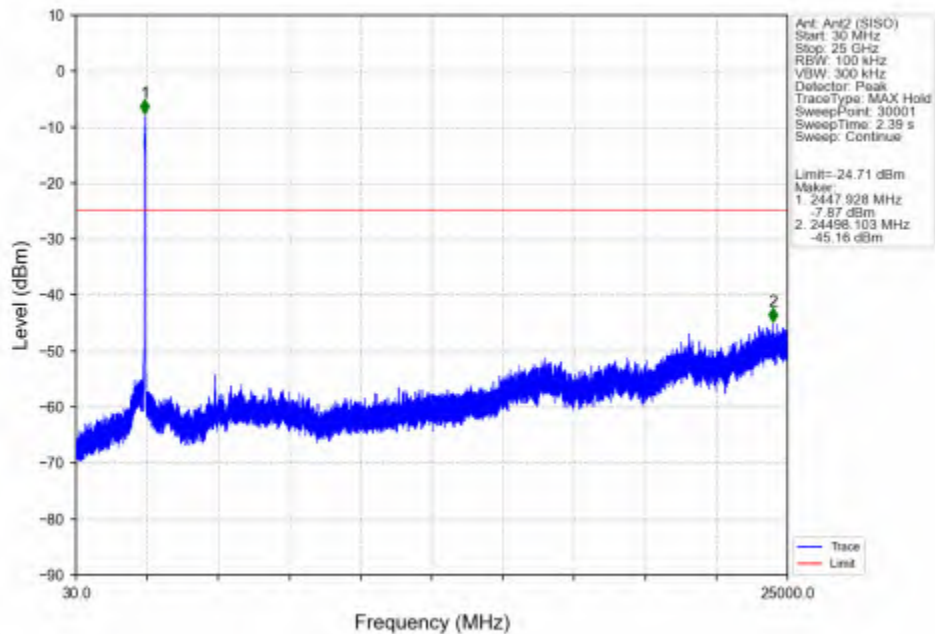


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802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV

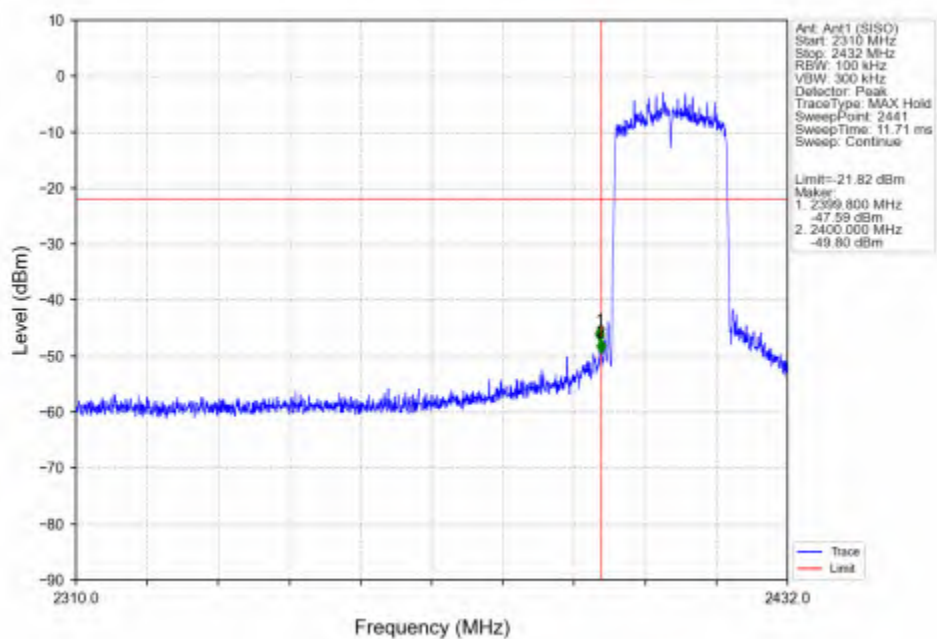


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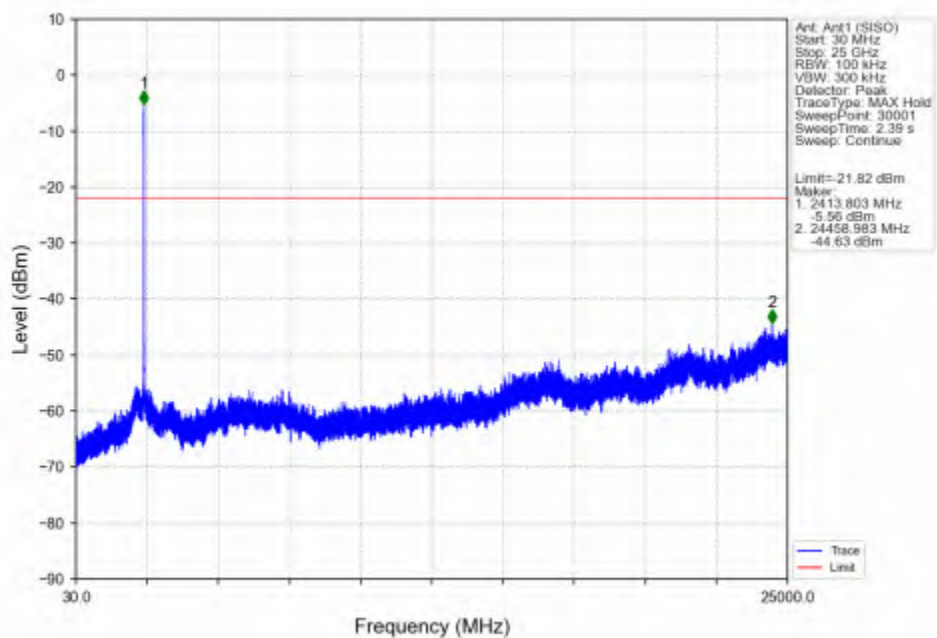


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802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV

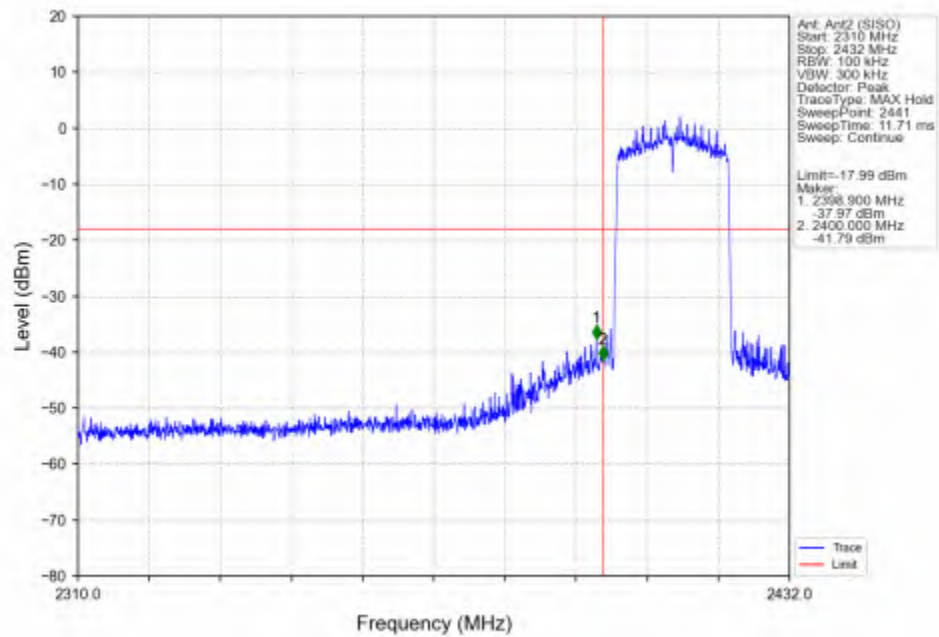


802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV

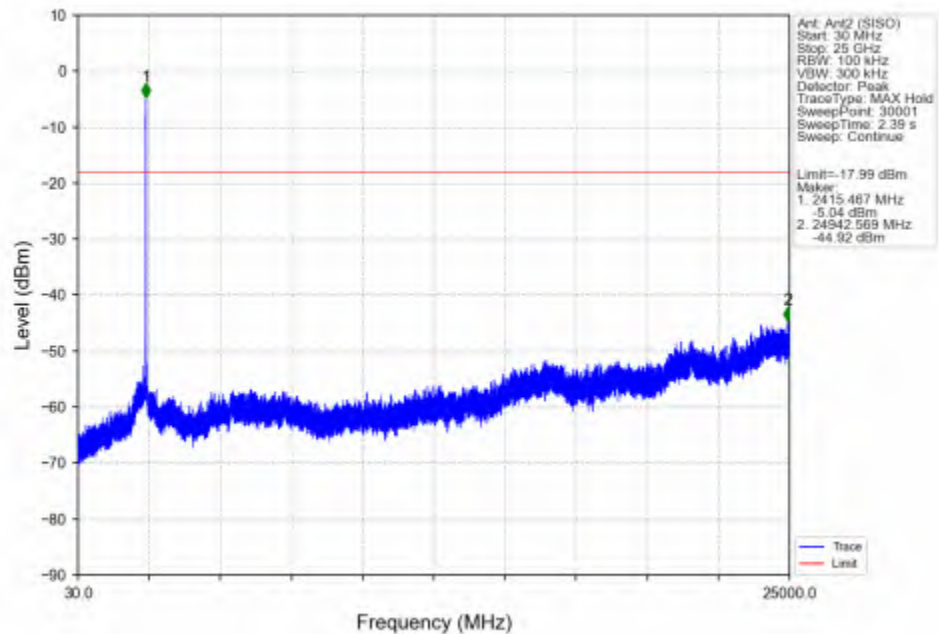


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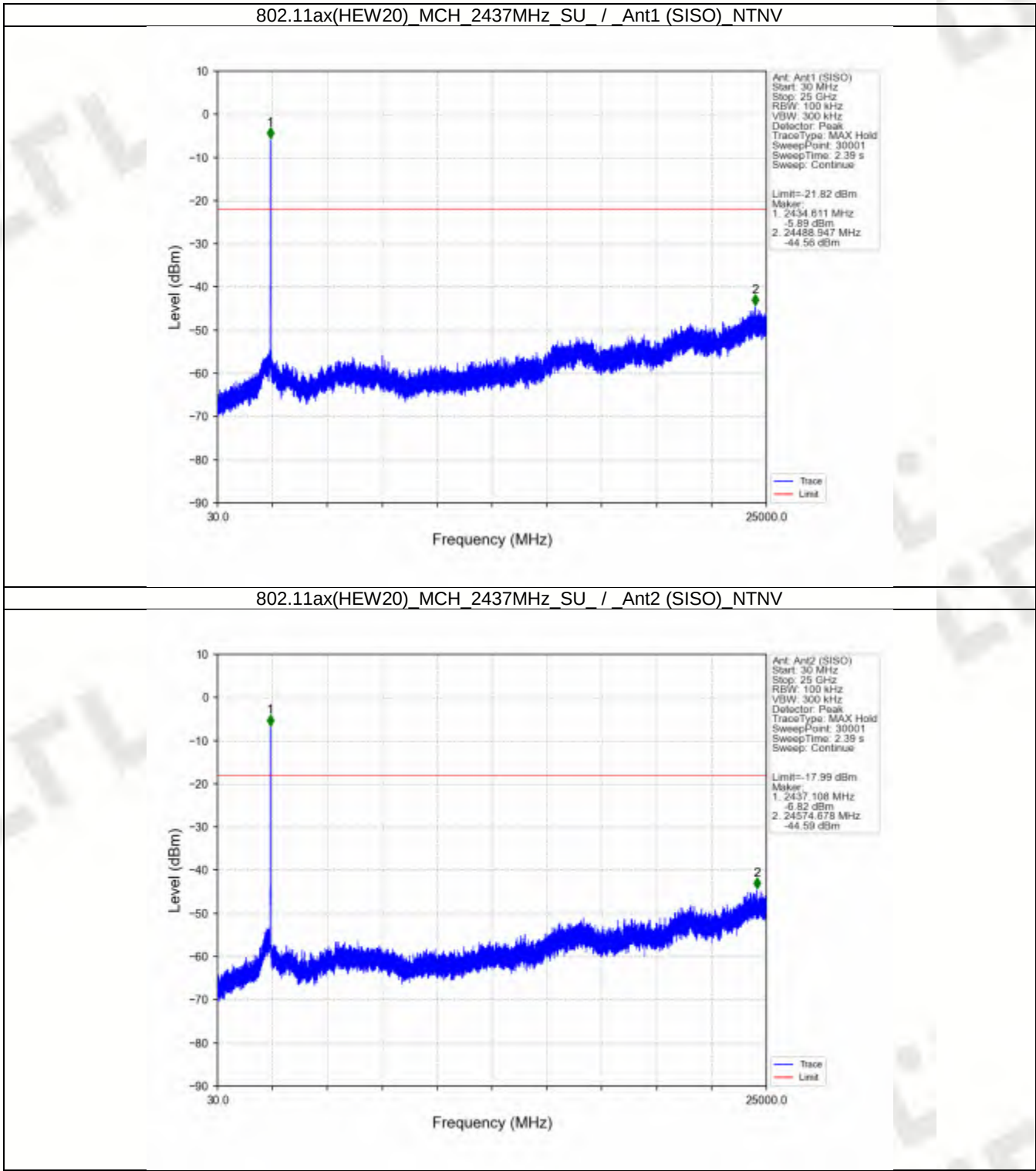
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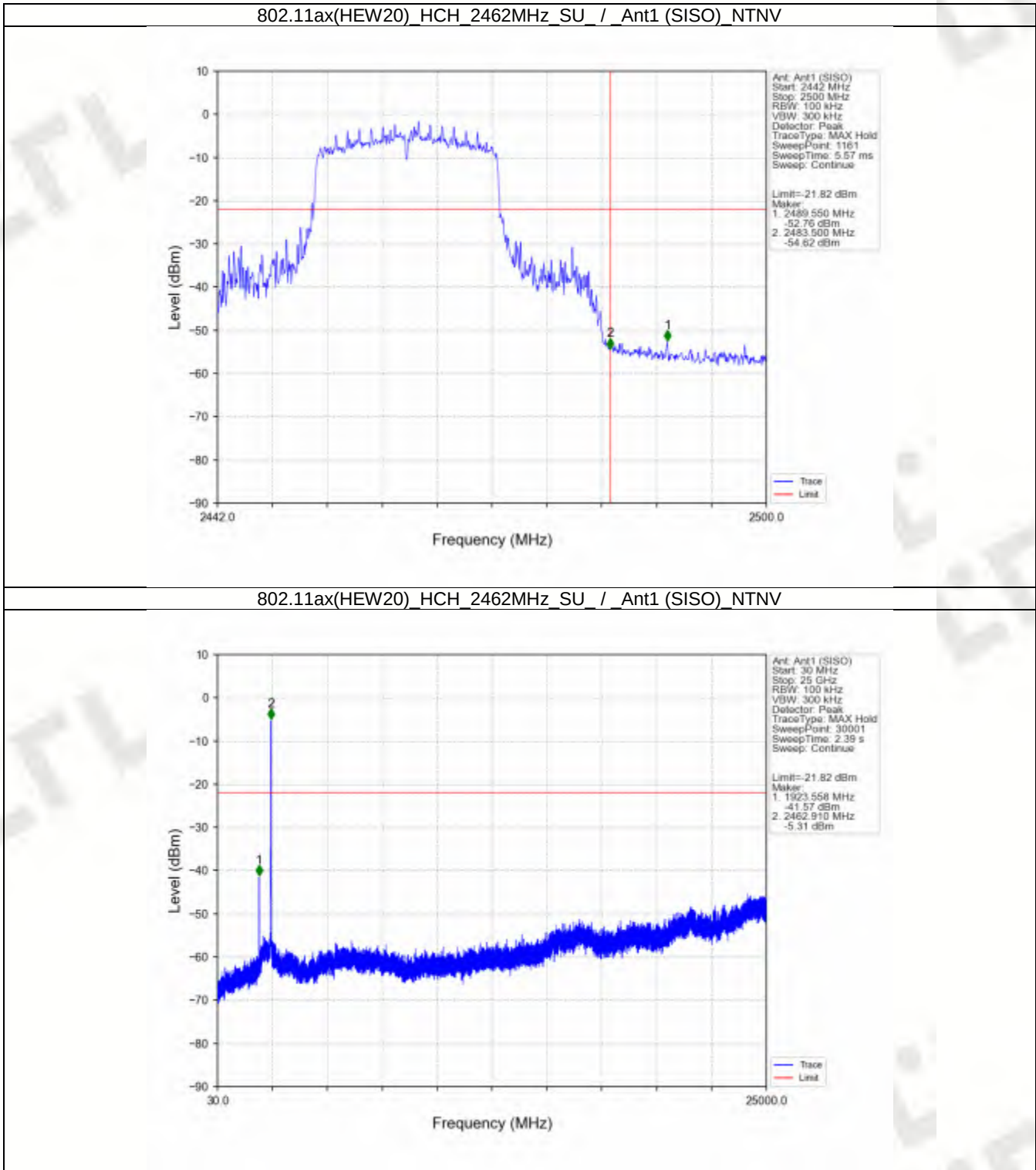
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant2 (SISO)_NTNV



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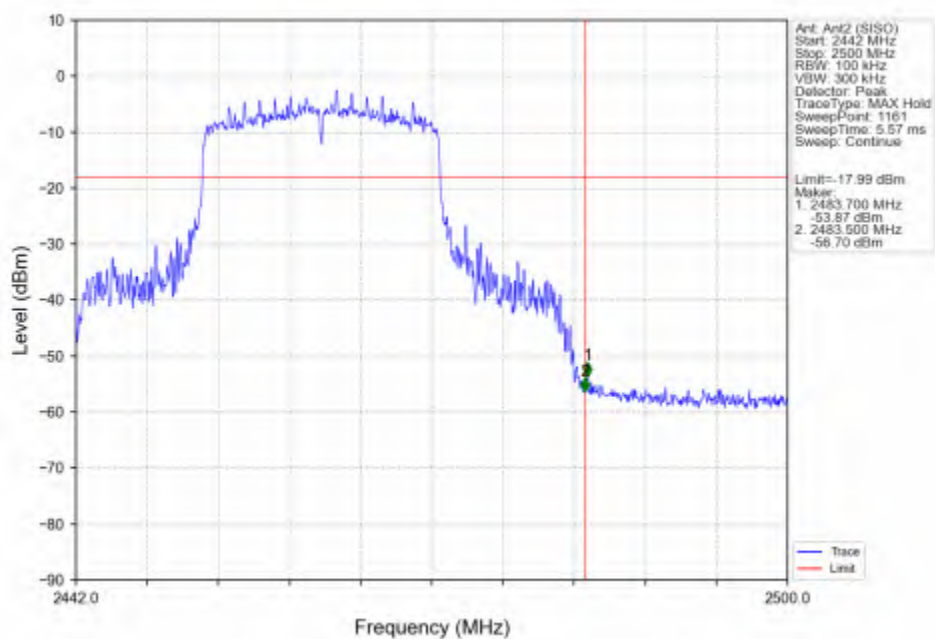


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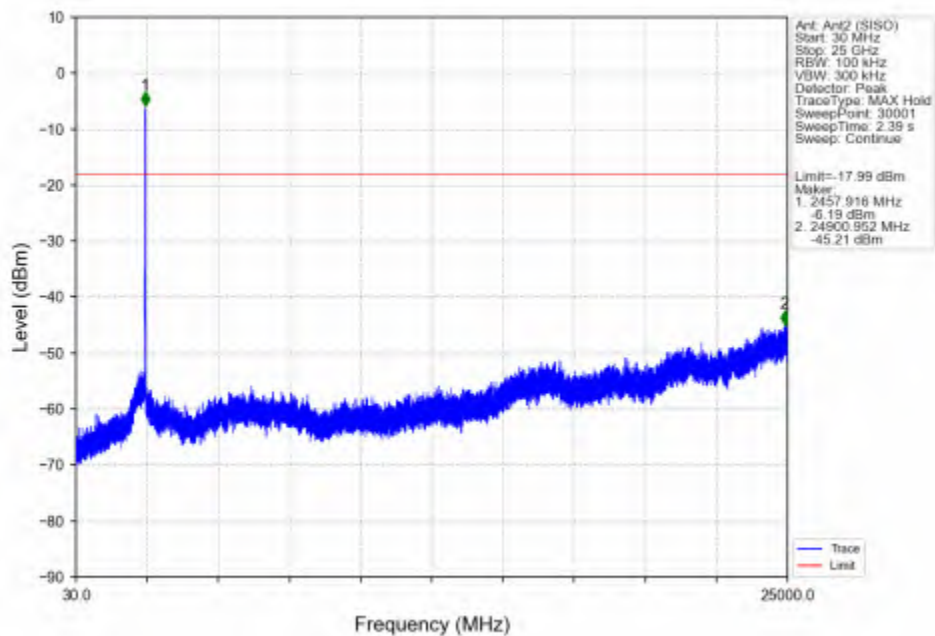


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802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant2 (SISO)_NTNV

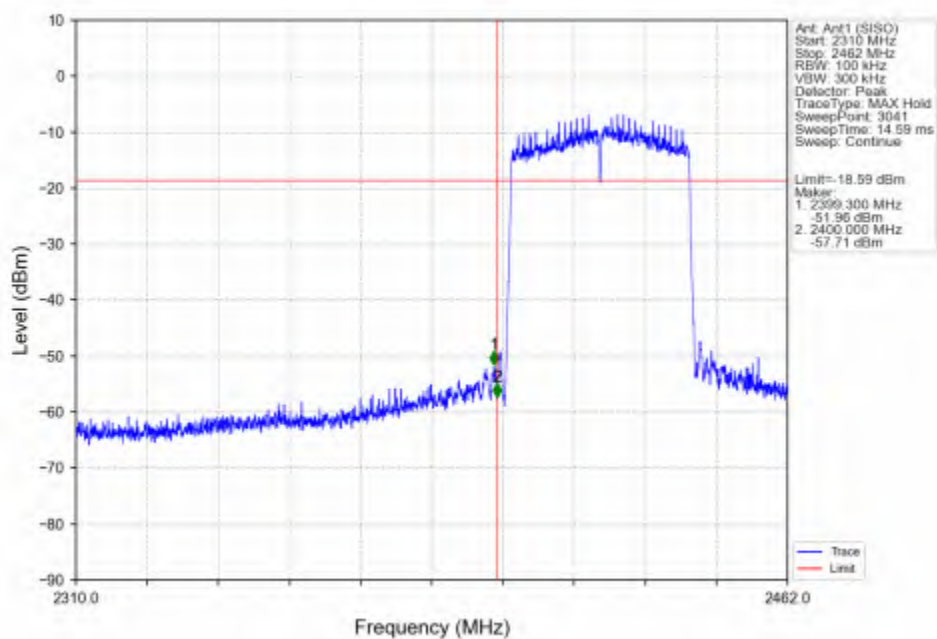


802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant2 (SISO)_NTNV

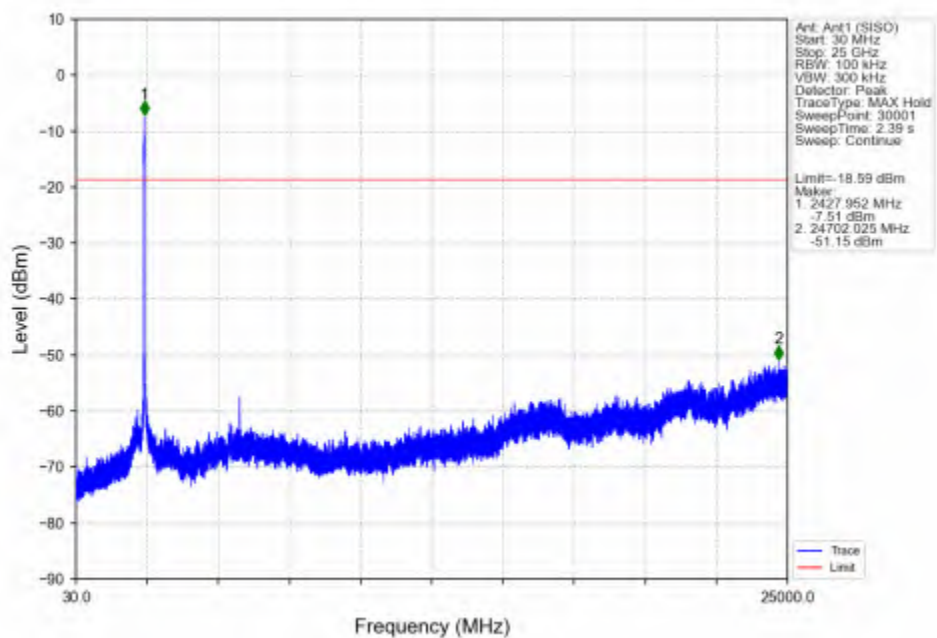


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802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV

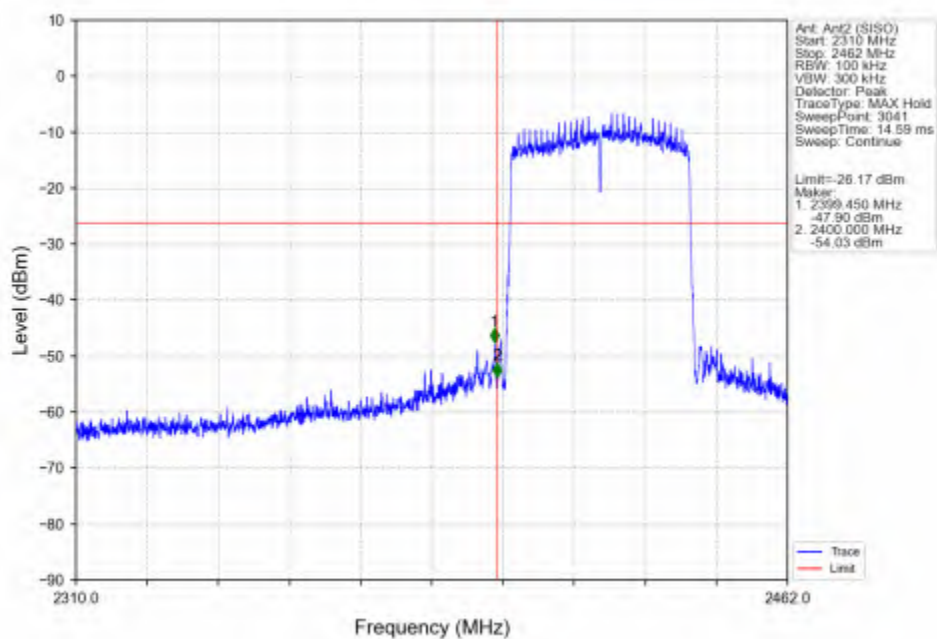


802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV

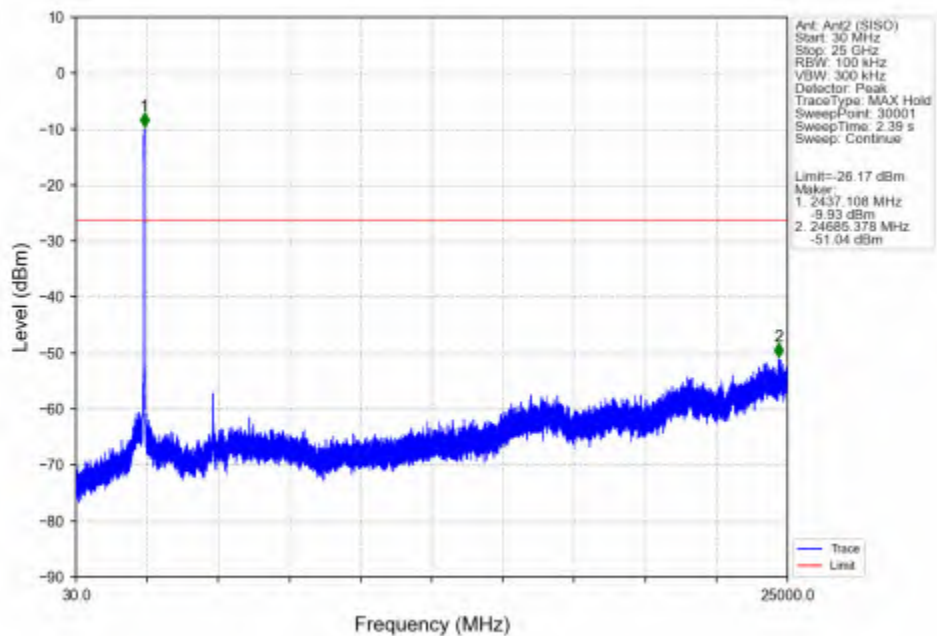


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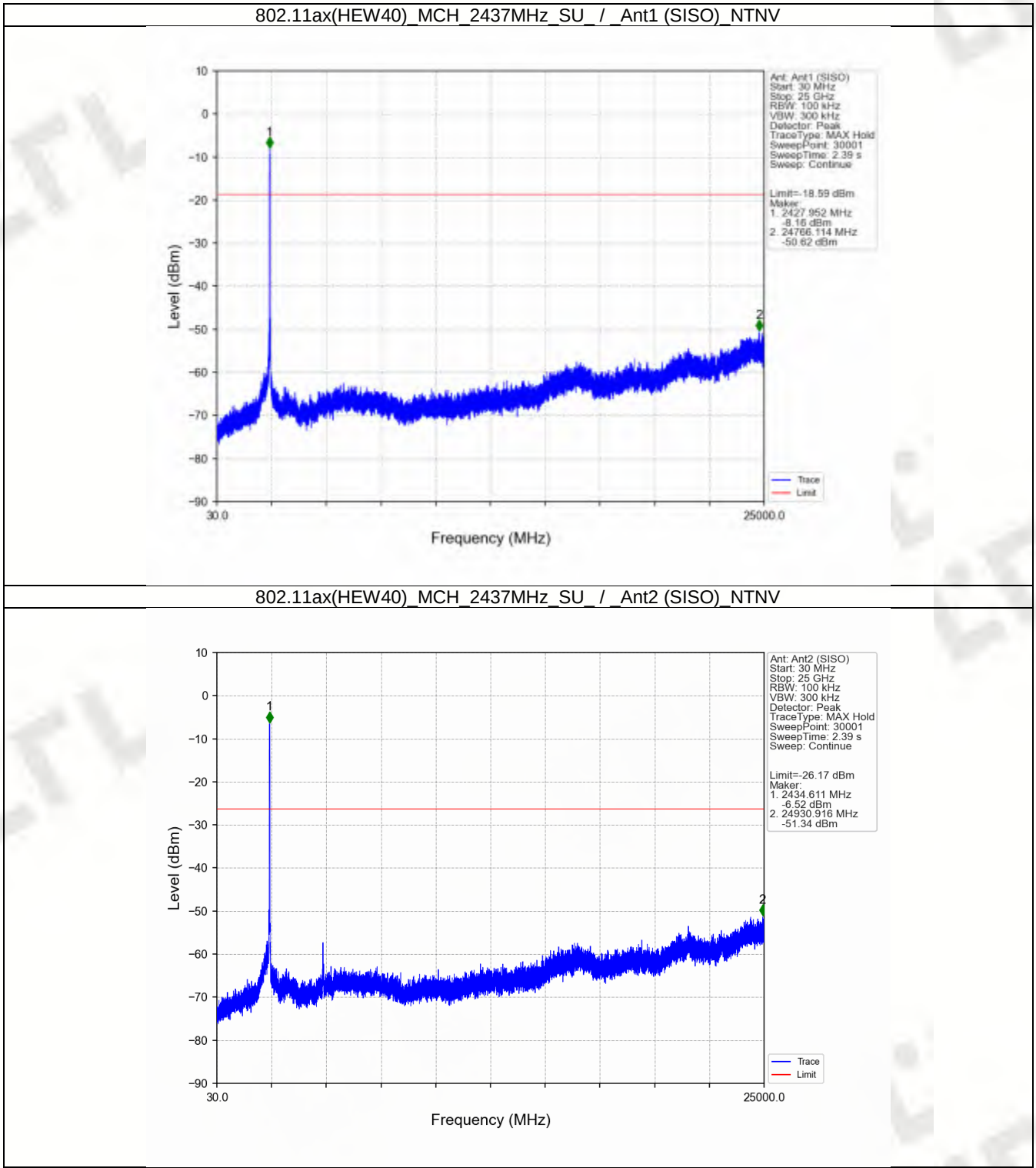
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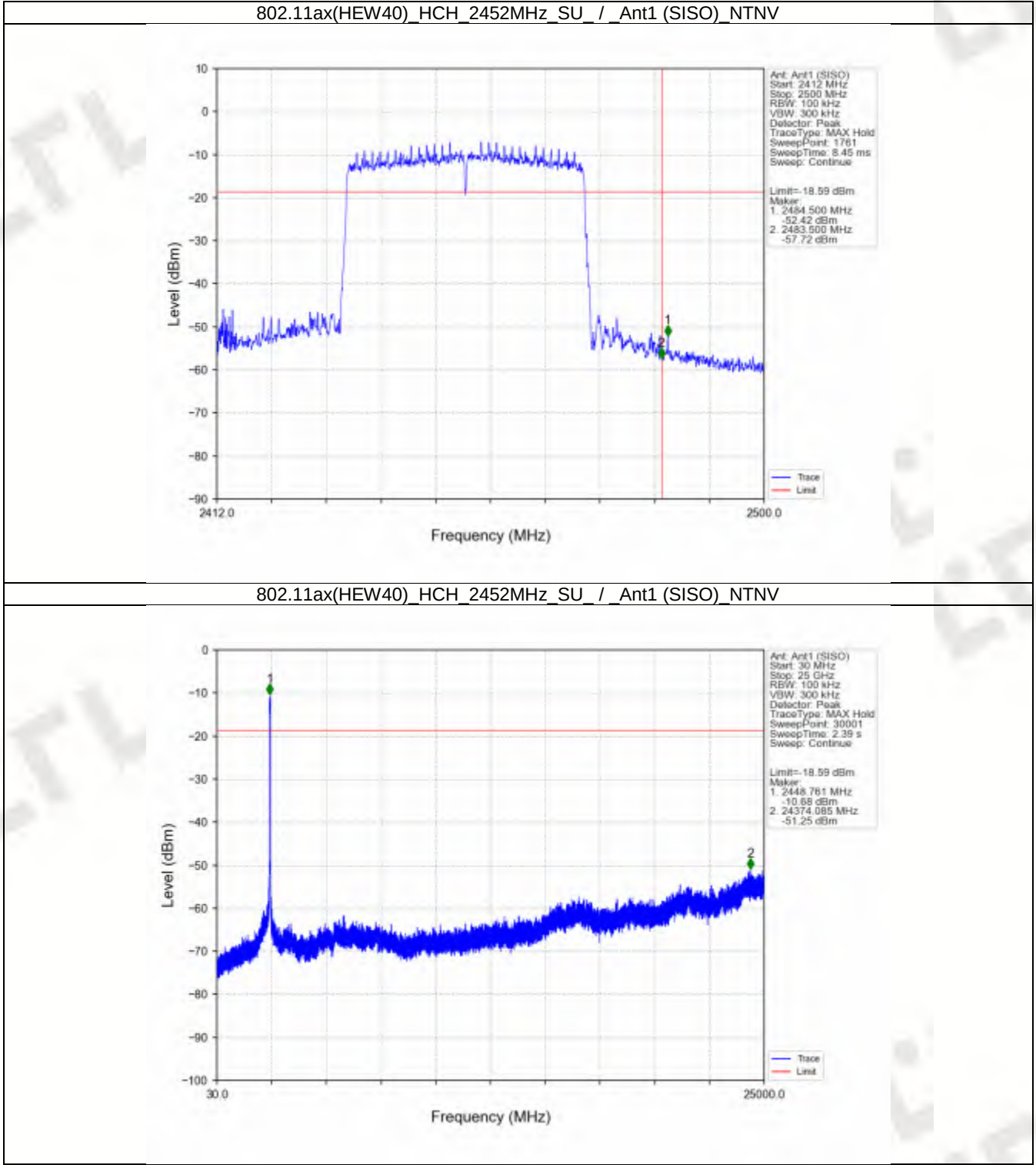
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FCC ID: 2BLP-G7A1

