

Appendix A for KSCR220500076401

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.420	12.583	98.70	0.06	0.95
		2437	12.424	12.574	98.81	0.05	0.93
		2462	12.420	12.580	98.73	0.06	0.90
802.11g	SISO	2412	2.073	2.237	92.67	0.33	5.93
		2437	2.072	2.237	92.62	0.33	5.54
		2462	2.067	2.201	93.91	0.27	3.61
802.11n (HT20)	SISO	2412	1.928	2.075	92.92	0.32	5.57
		2437	1.927	2.074	92.91	0.32	5.51
		2462	1.928	2.084	92.51	0.34	6.00
802.11n (HT40)	SISO	2422	0.951	1.108	85.83	0.66	11.03
		2437	0.947	1.099	86.17	0.65	9.37
		2452	0.947	1.099	86.17	0.65	10.30

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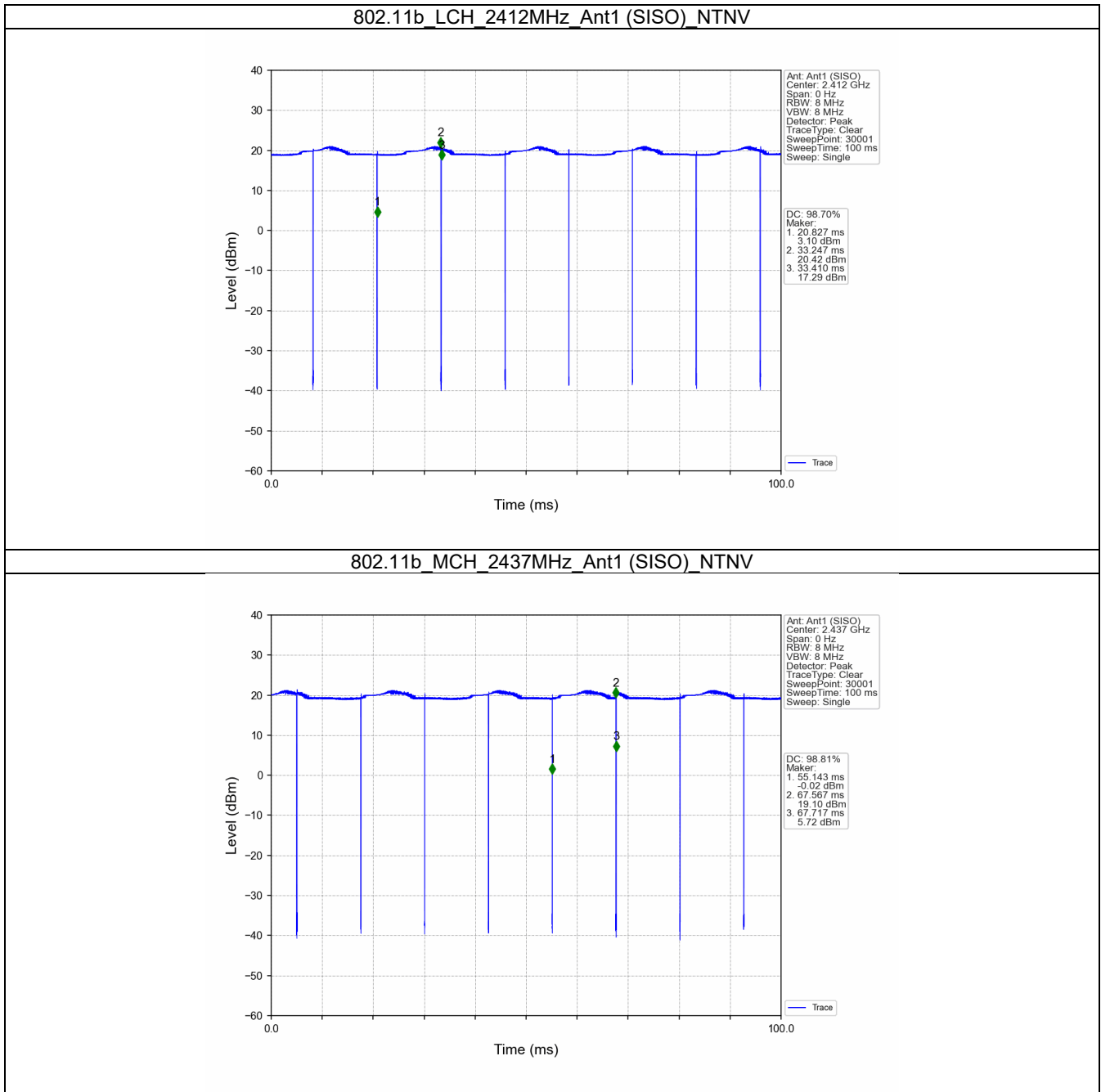
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1.1.2 Test Graph

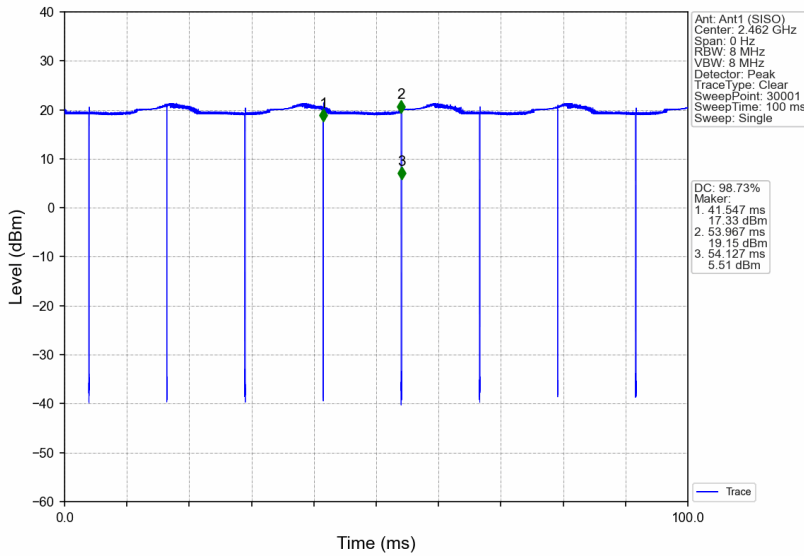


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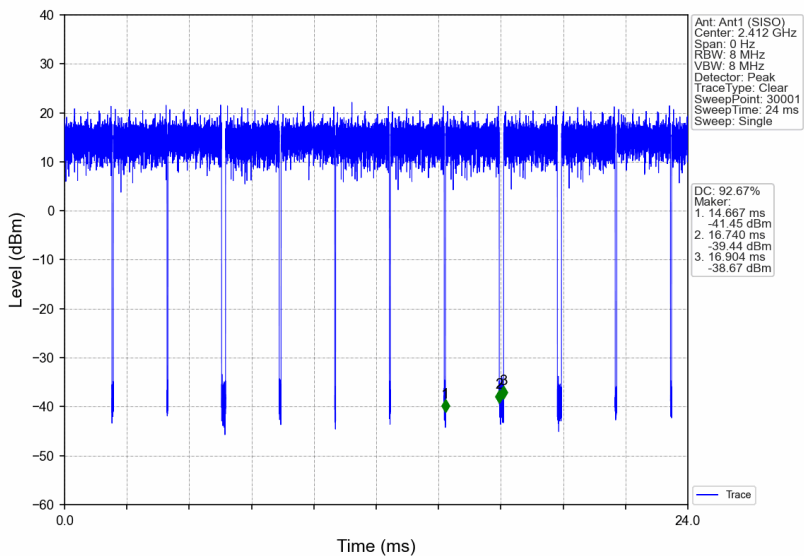
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802.11b HCH 2462MHz Ant1 (SISO) NTN



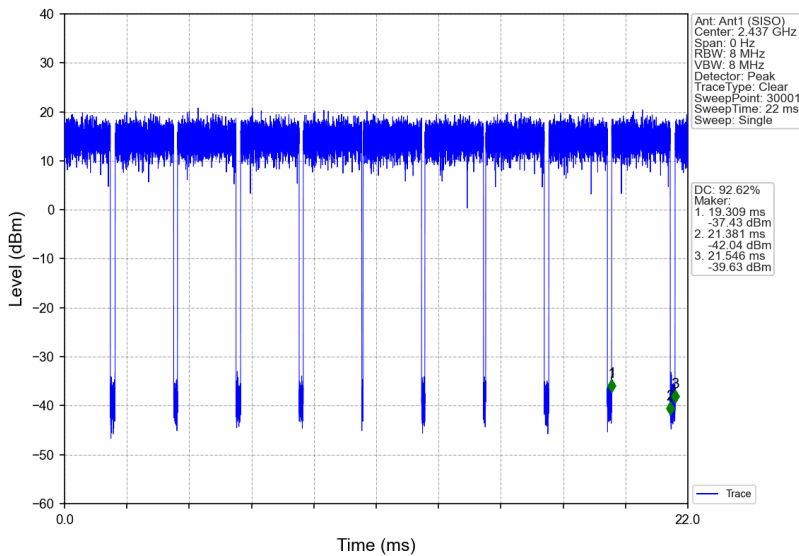
802.11g LCH 2412MHz Ant1 (SISO) NTN



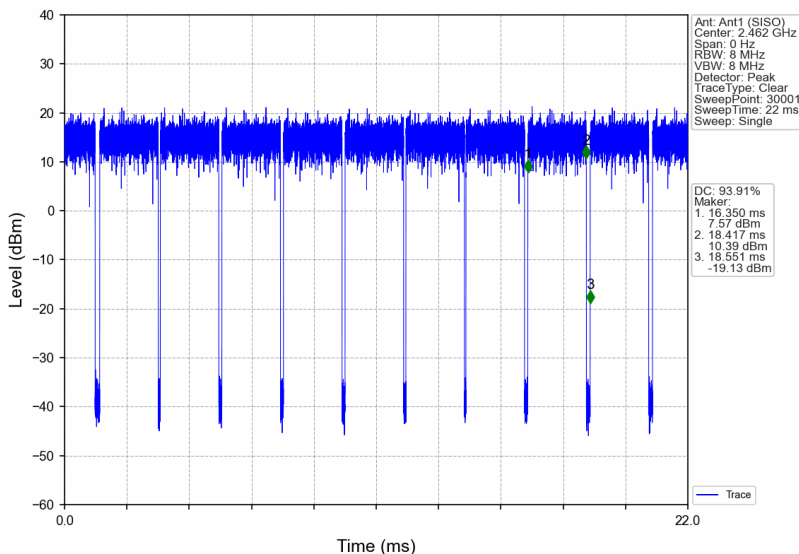
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802.11g MCH 2437MHz Ant1 (SISO) NTN



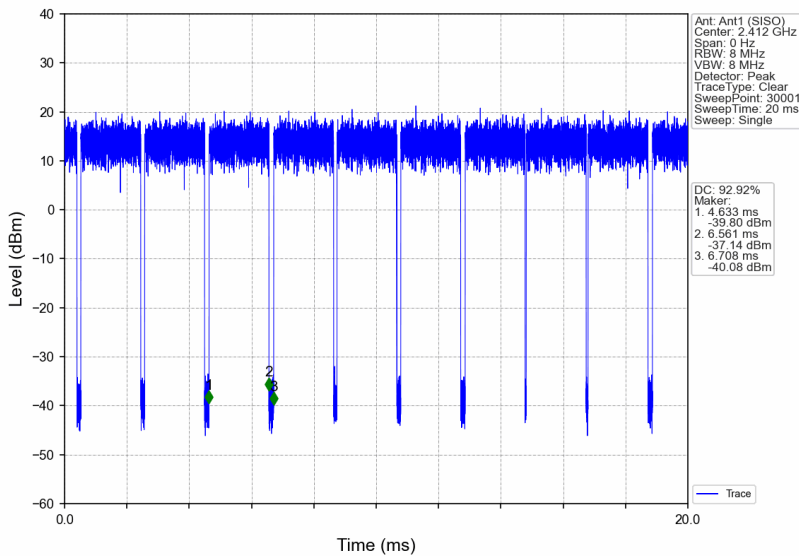
802.11g HCH 2462MHz Ant1 (SISO) NTN



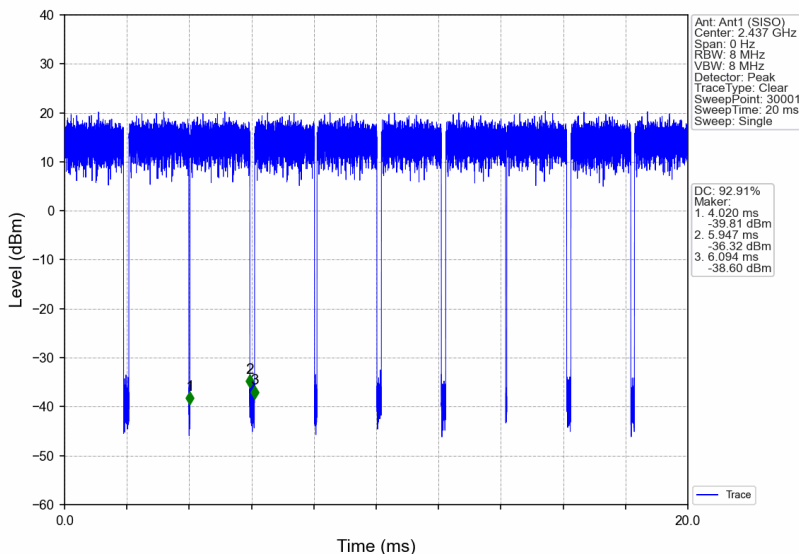
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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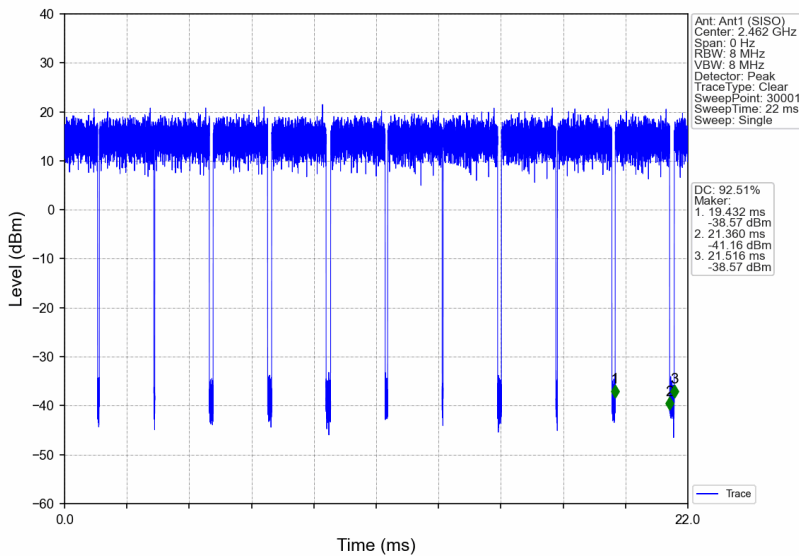
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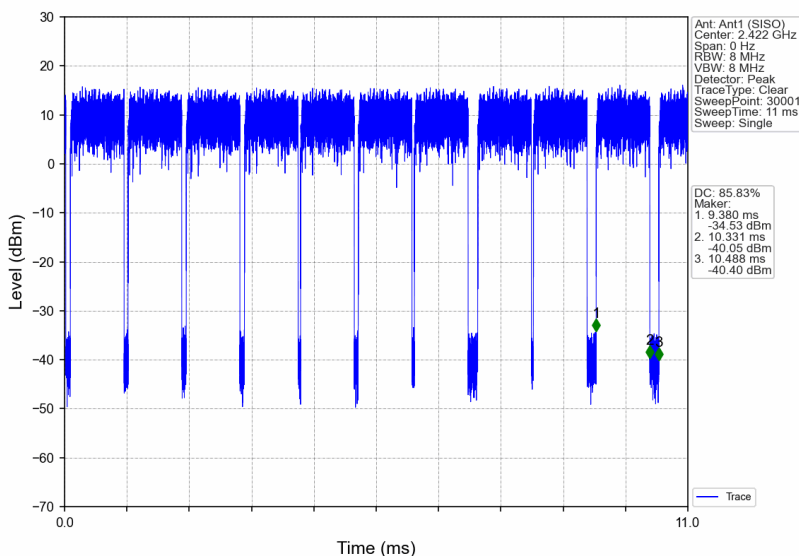
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



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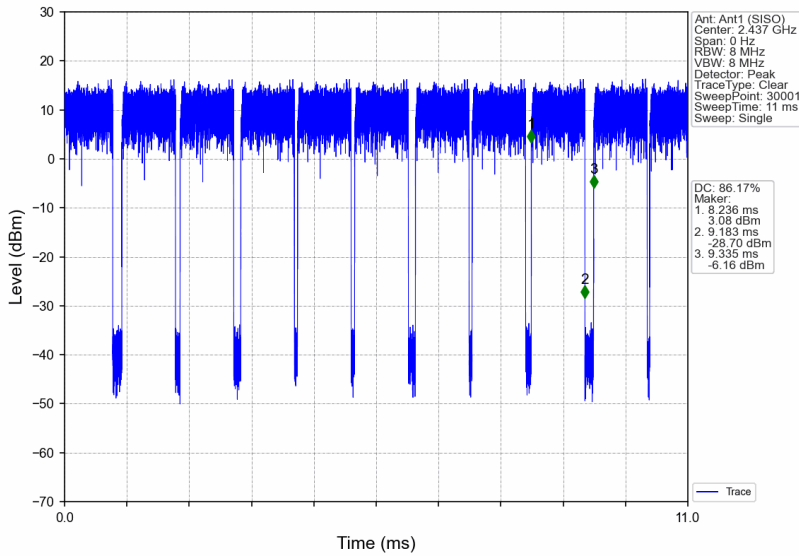
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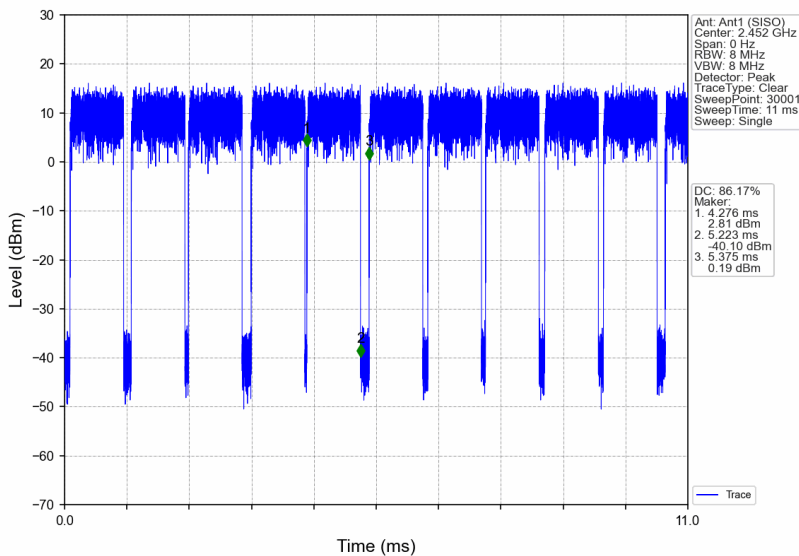
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	15.153	Pass
		2437	1	15.179	Pass
		2462	1	15.187	Pass
802.11g	SISO	2412	1	17.667	Pass
		2437	1	17.654	Pass
		2462	1	17.403	Pass
802.11n (HT20)	SISO	2412	1	18.232	Pass
		2437	1	18.346	Pass
		2462	1	18.404	Pass
802.11n (HT40)	SISO	2422	1	36.701	Pass
		2437	1	36.660	Pass
		2452	1	37.035	Pass



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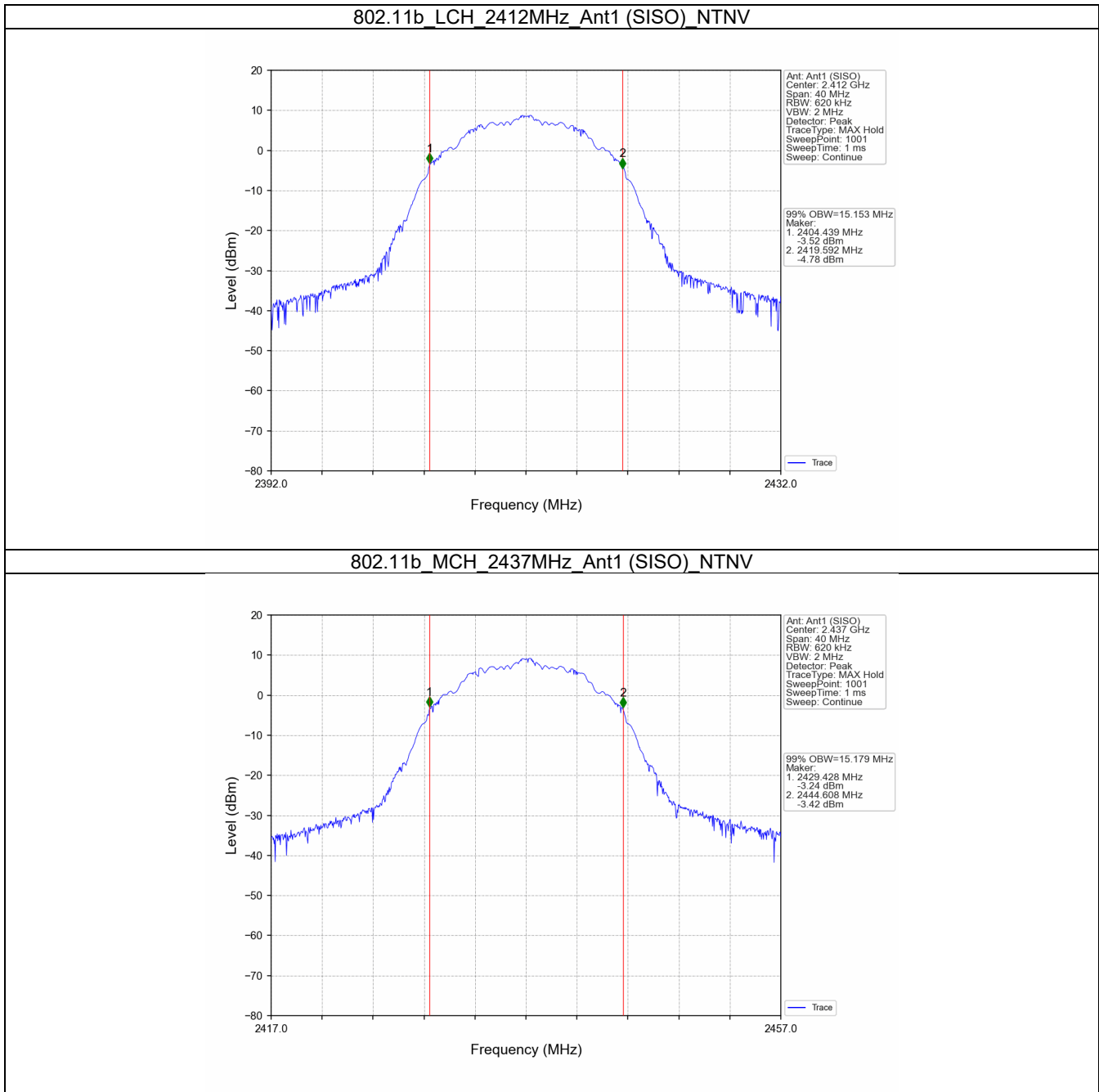
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2.1.2 Test Graph

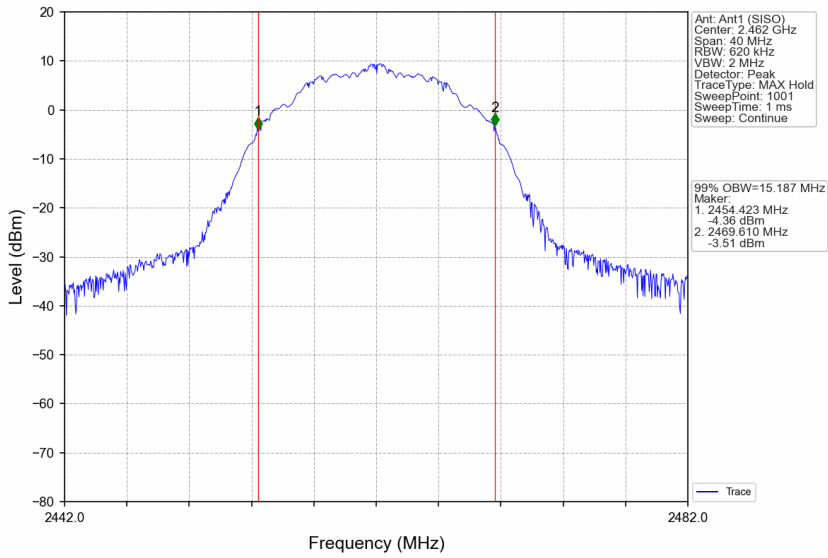


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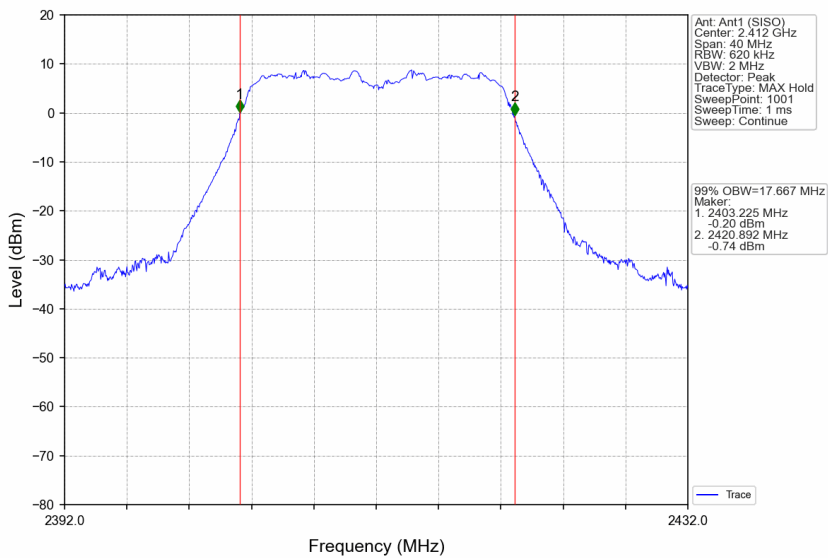
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802.11b HCH 2462MHz Ant1 (SISO) NTVN



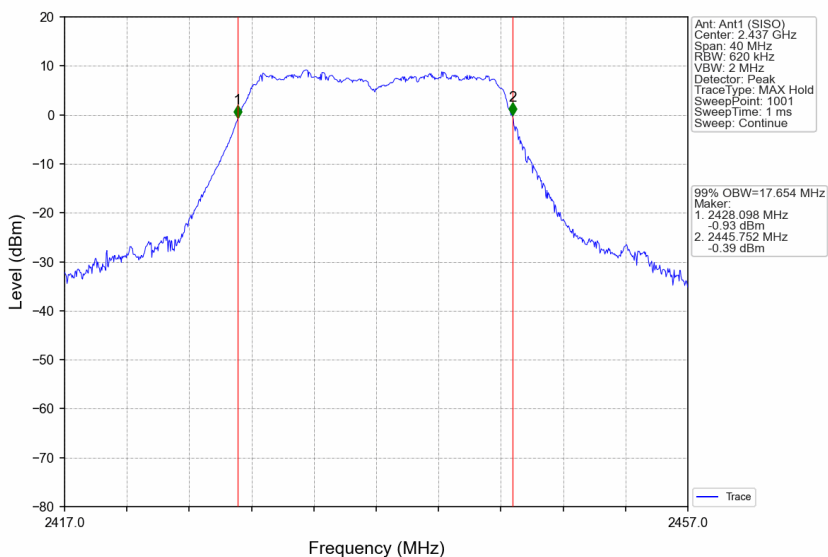
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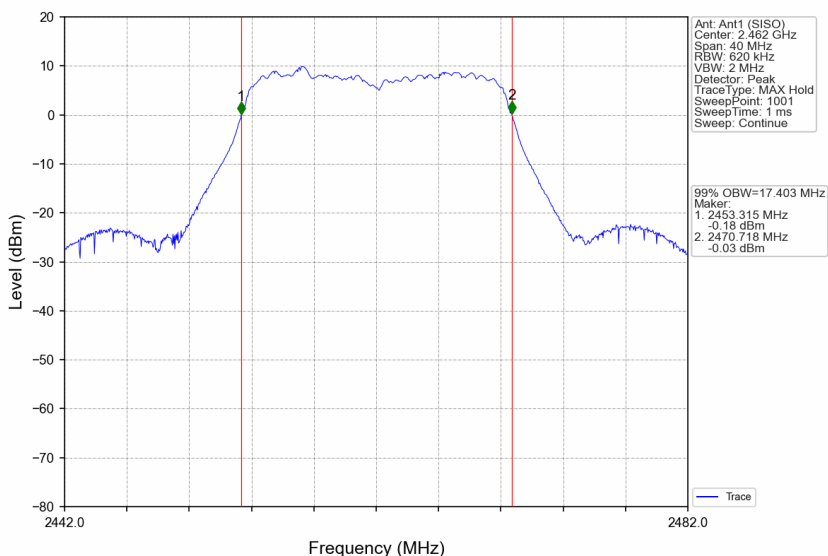
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN



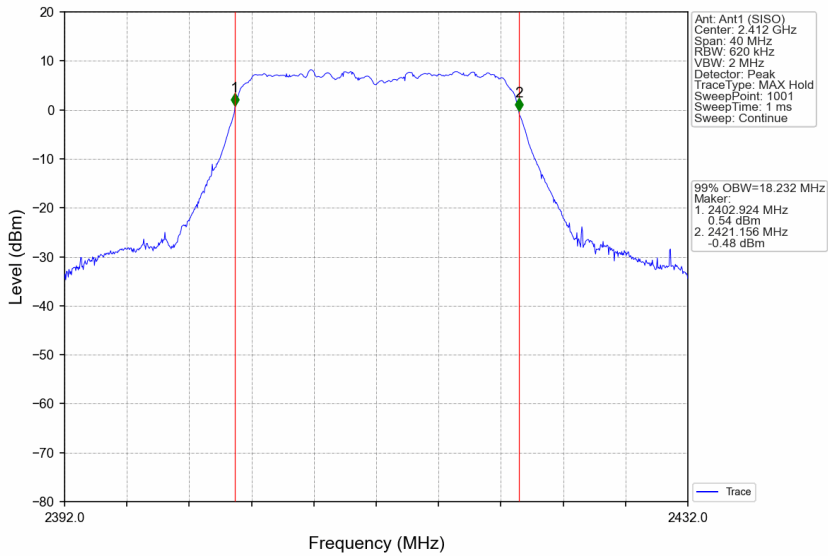
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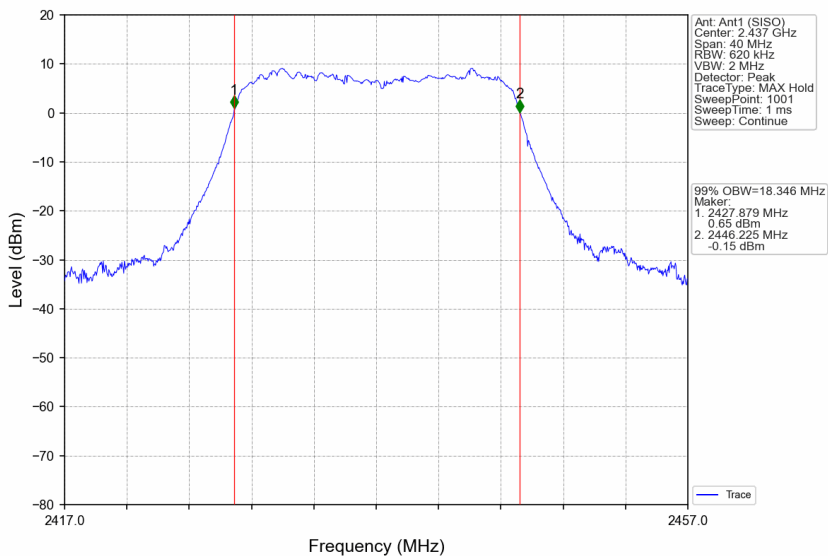
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



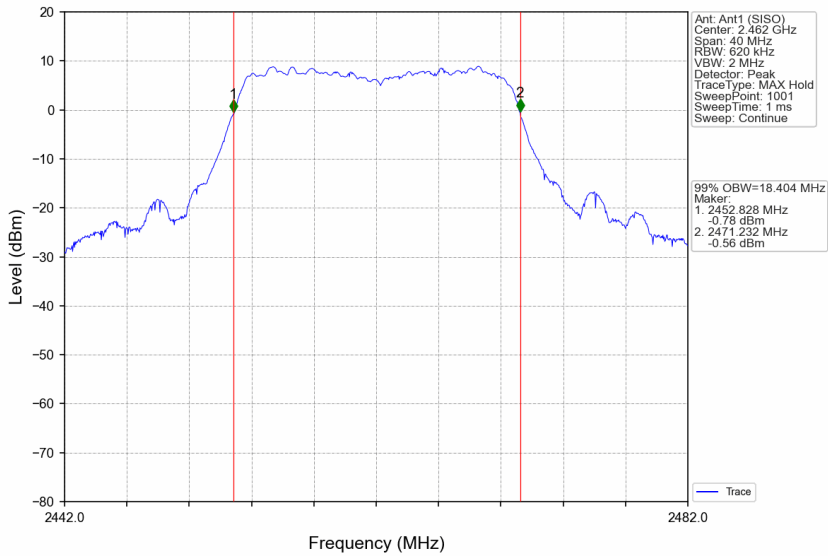
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTV



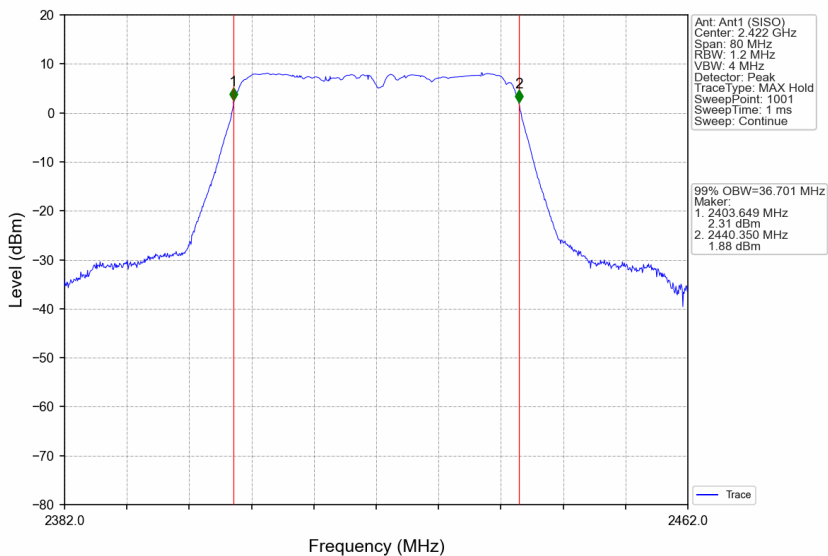
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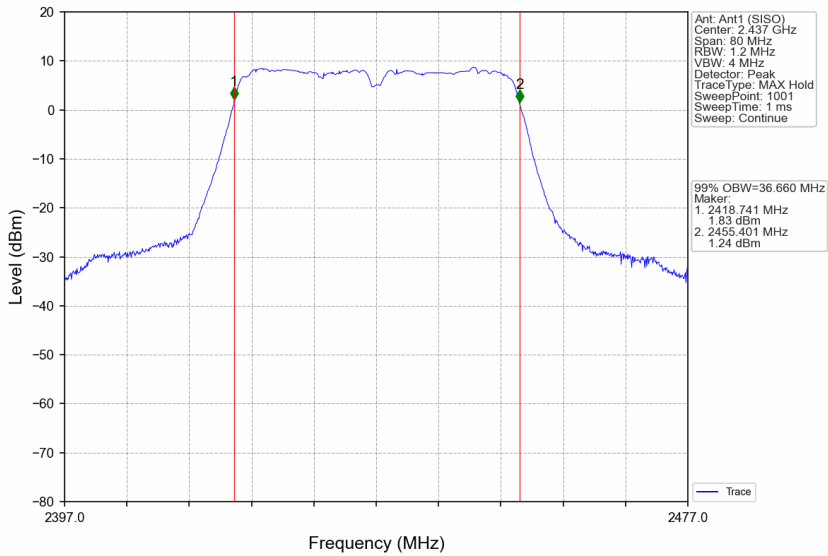
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



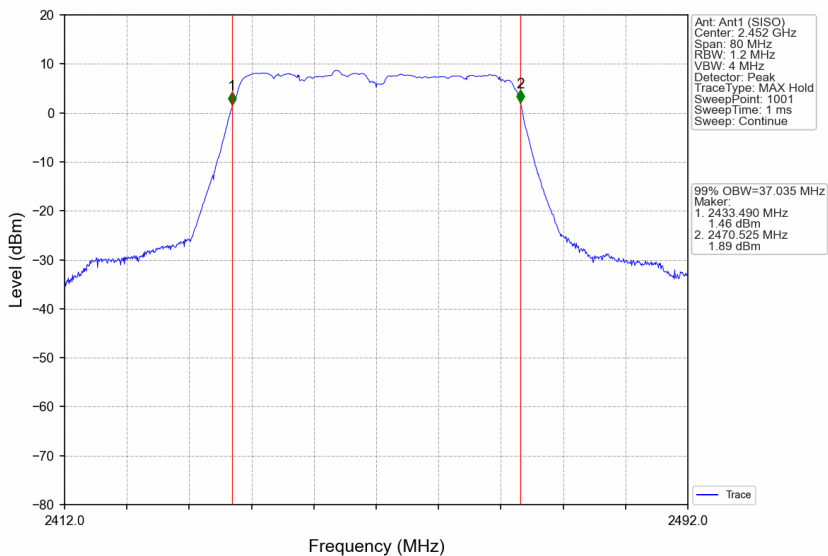
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802.11n(HT40) MCH\_2437MHz Ant1 (SISO) NTV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.135	>=0.5	Pass
		2437	1	10.136	>=0.5	Pass
		2462	1	10.138	>=0.5	Pass
802.11g	SISO	2412	1	16.365	>=0.5	Pass
		2437	1	16.379	>=0.5	Pass
		2462	1	16.358	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.331	>=0.5	Pass
		2437	1	17.112	>=0.5	Pass
		2462	1	17.072	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.558	>=0.5	Pass
		2437	1	35.528	>=0.5	Pass
		2452	1	35.386	>=0.5	Pass



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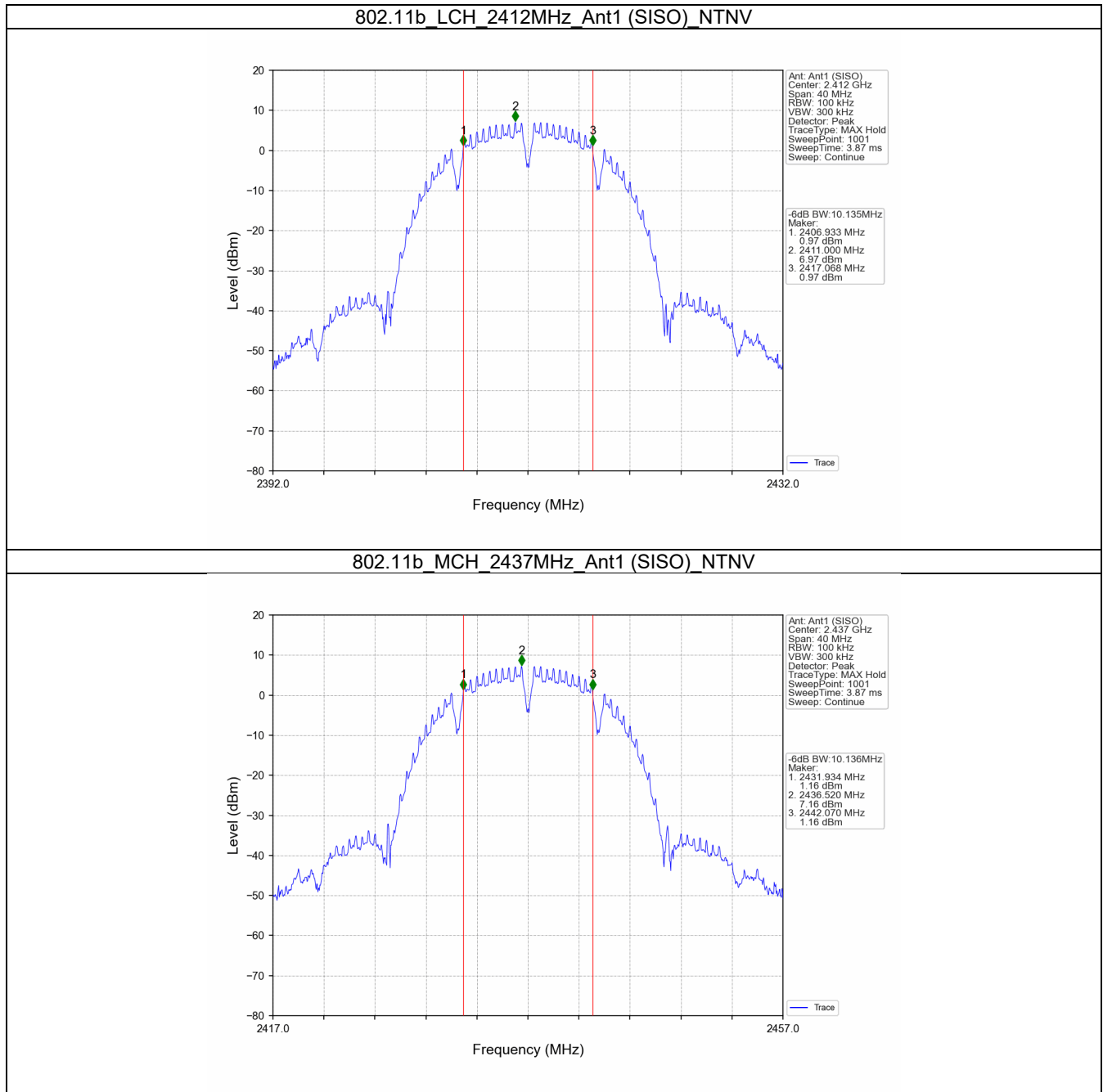
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Compliance Certification Services (Kunshan) Inc.  
EMC Laboratory

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2.2.2 Test Graph



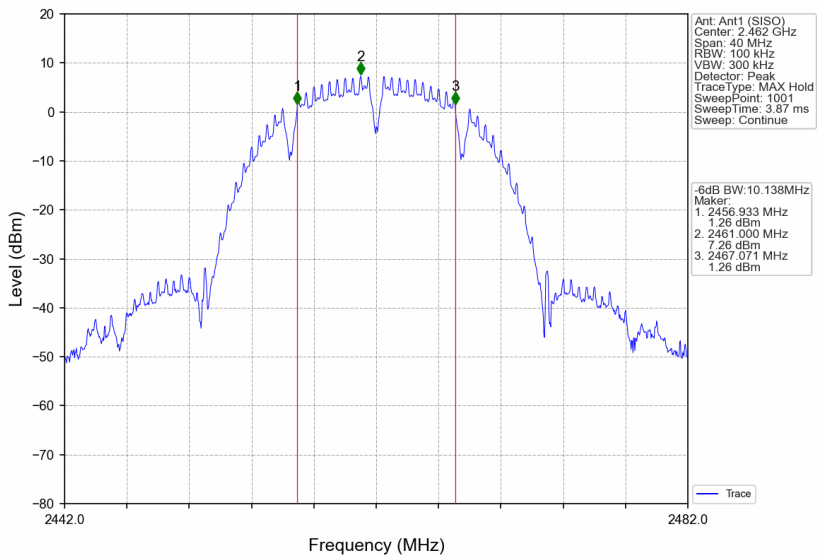
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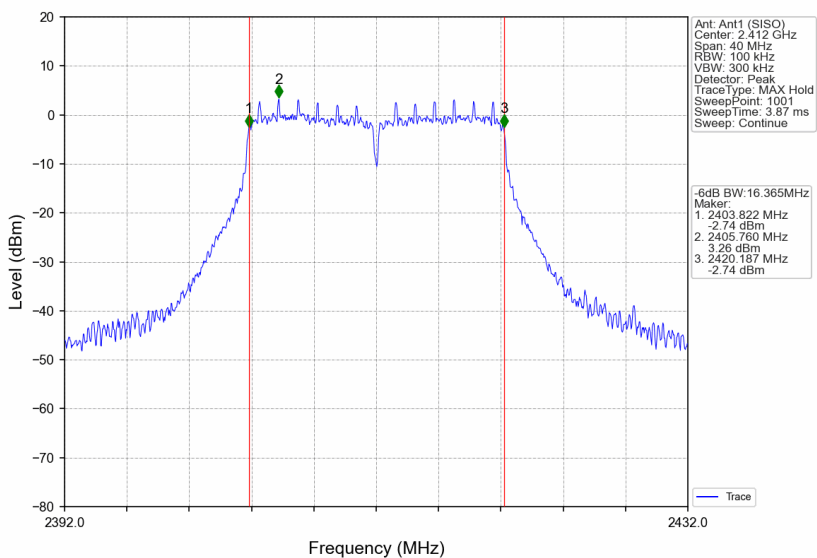
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN



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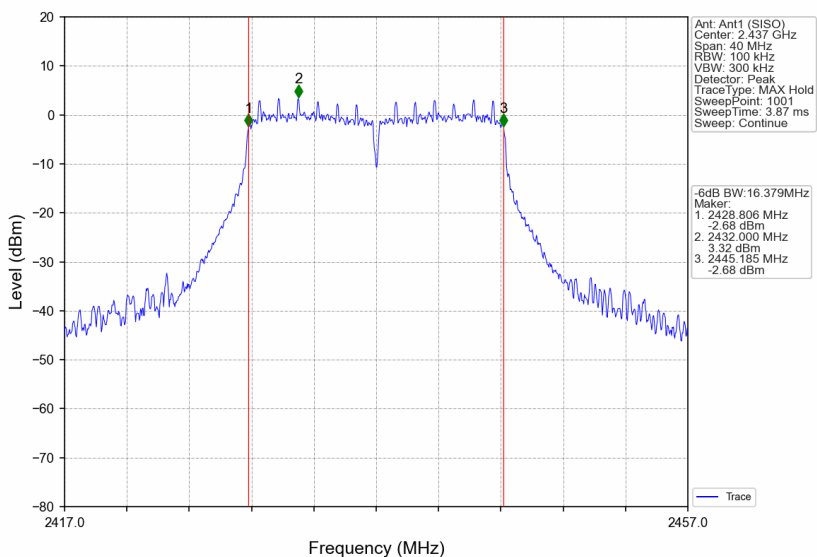
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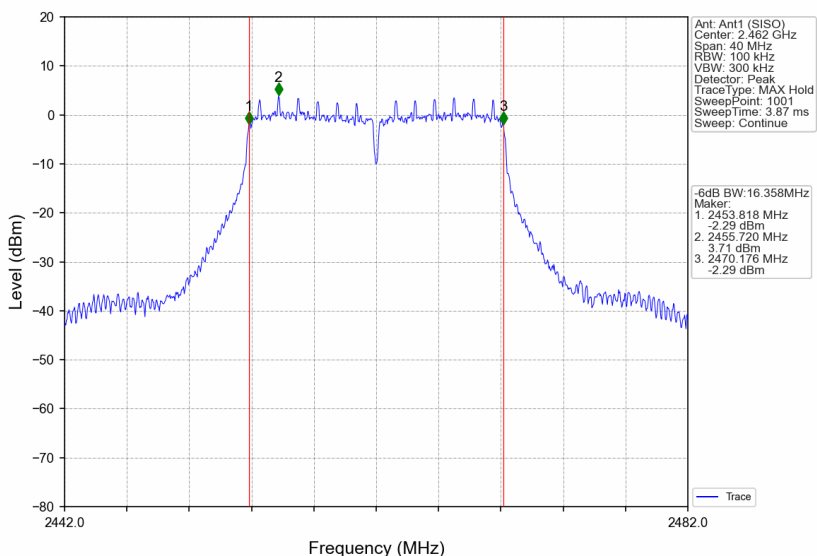
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN



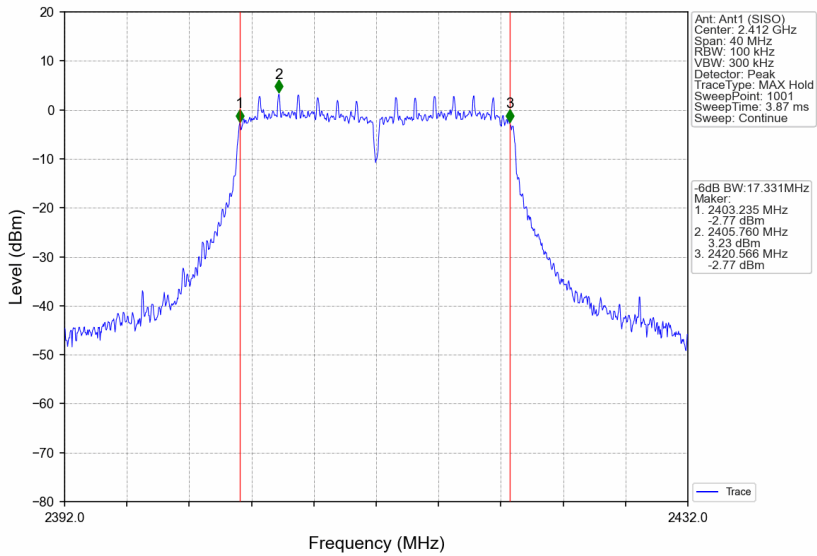
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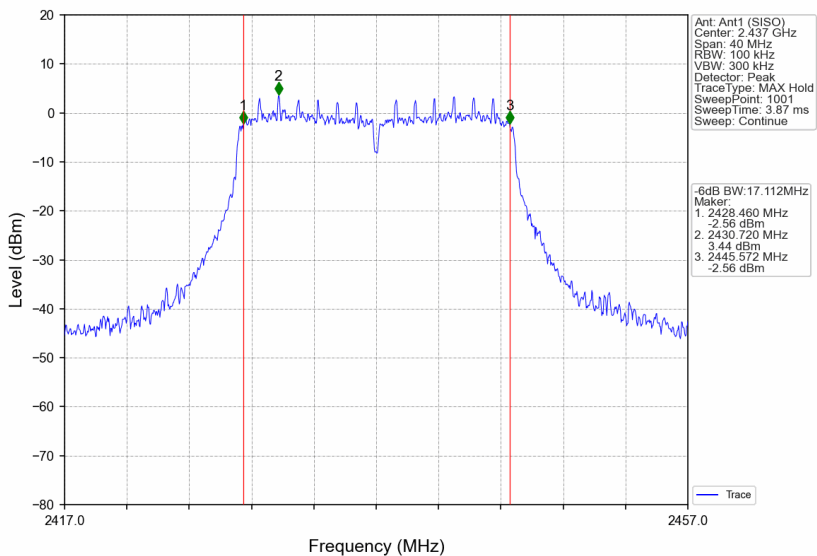
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



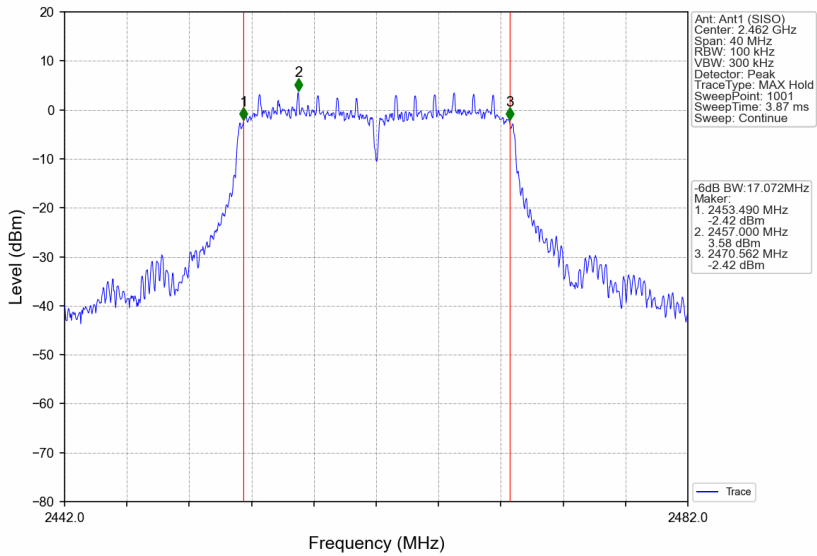
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



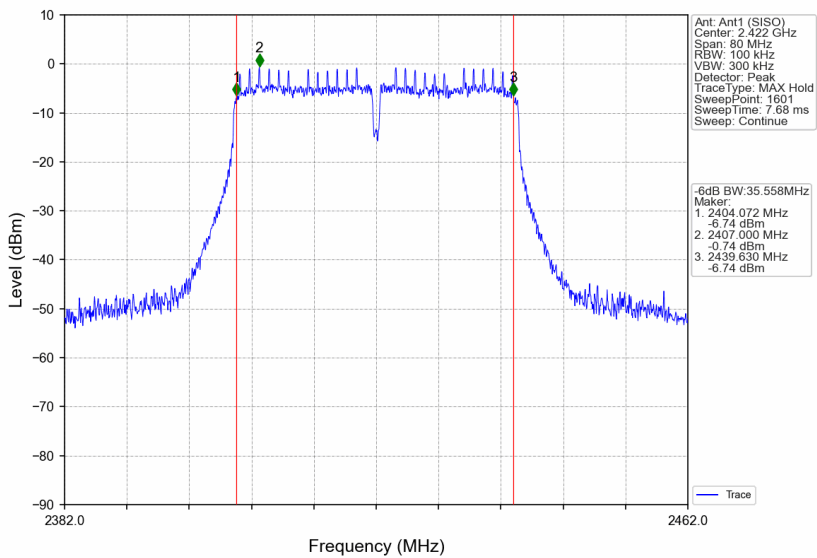
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



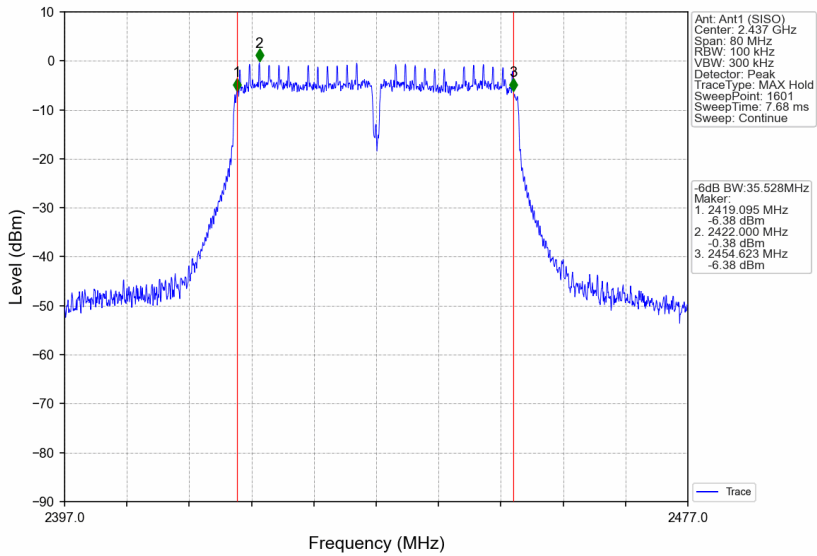
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



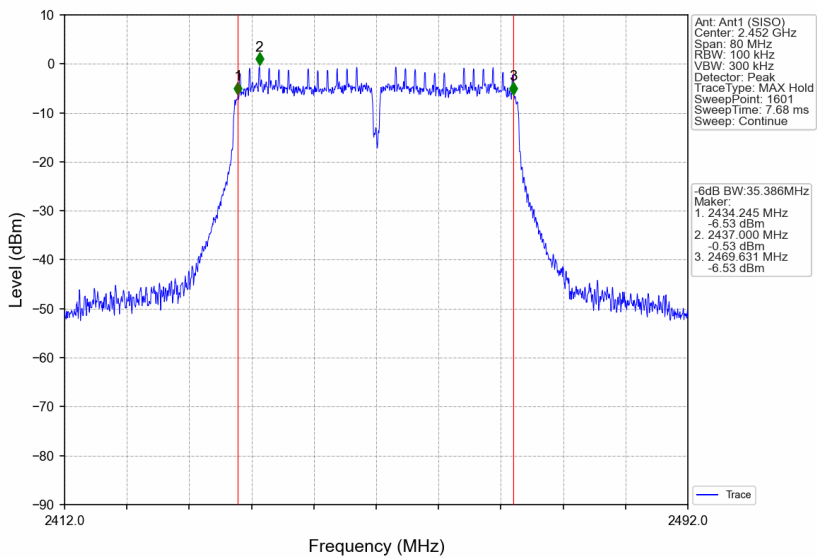
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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTV



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	16.03	<=30	Pass
		2437	16.19	<=30	Pass
		2462	16.37	<=30	Pass
802.11g	SISO	2412	14.06	<=30	Pass
		2437	14.25	<=30	Pass
		2462	14.45	<=30	Pass
802.11n (HT20)	SISO	2412	13.96	<=30	Pass
		2437	14.16	<=30	Pass
		2462	14.39	<=30	Pass
802.11n (HT40)	SISO	2422	13.28	<=30	Pass
		2437	13.56	<=30	Pass
		2452	13.41	<=30	Pass

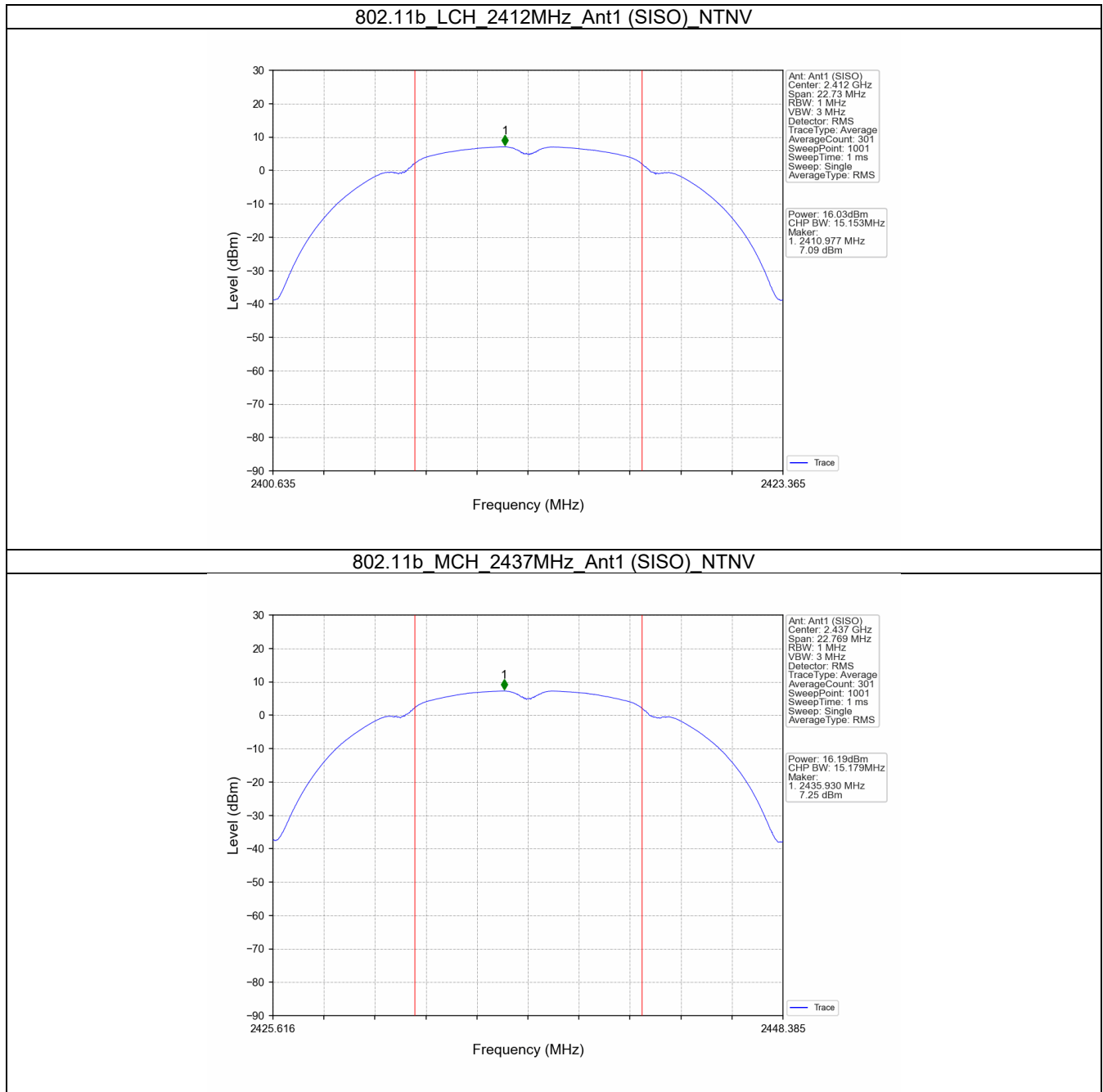
Note1: Antenna Gain: Ant1: 4.00dBi;



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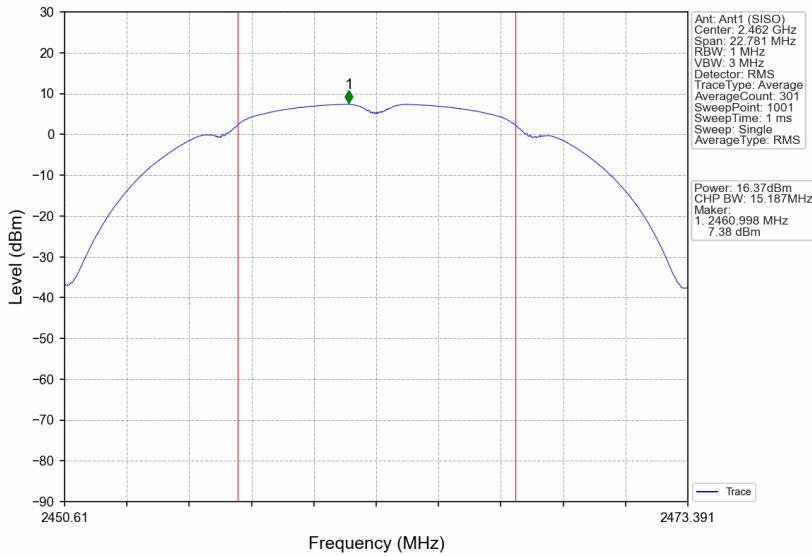
3.1.2 Test Graph



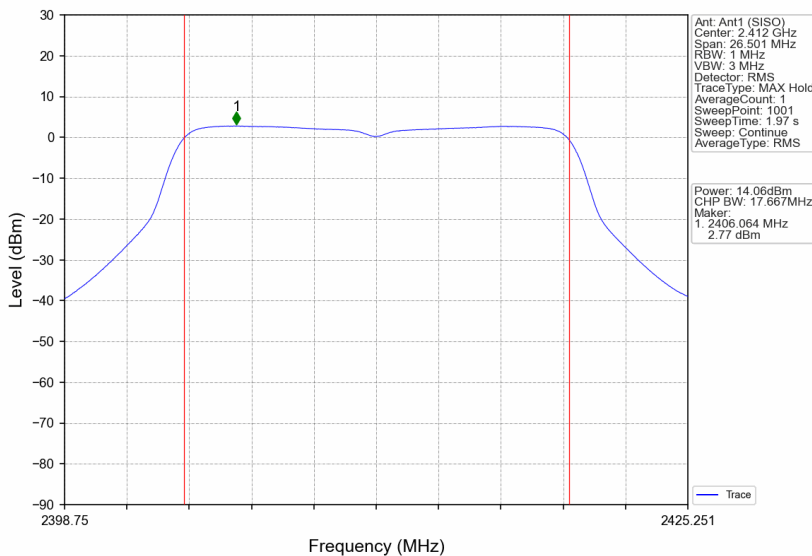
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN

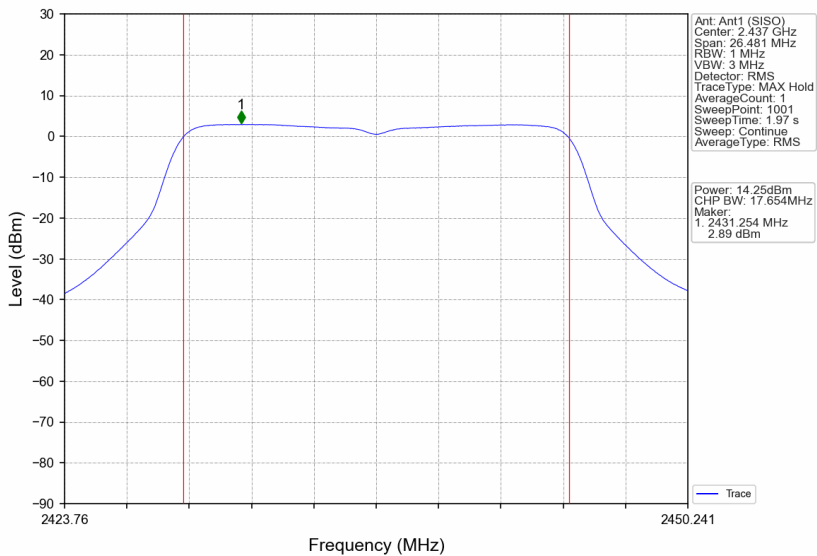


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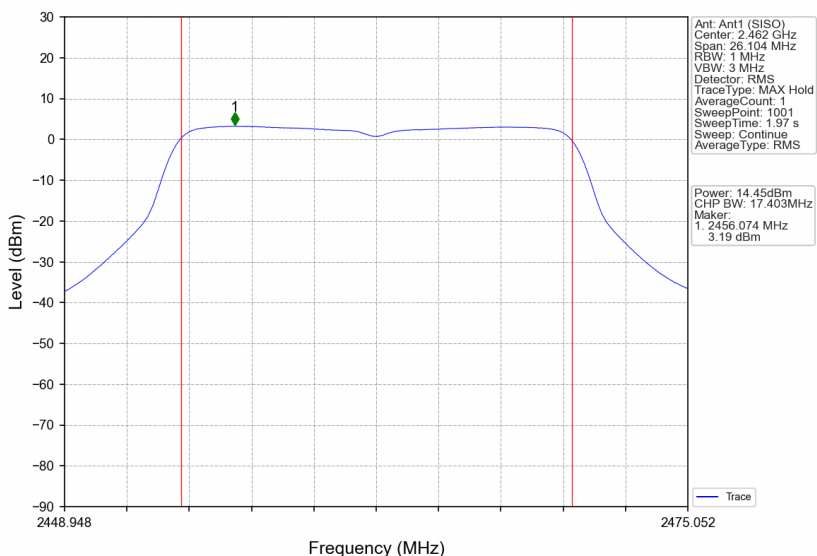
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802.11g MCH 2437MHz Ant1 (SISO) NTVN



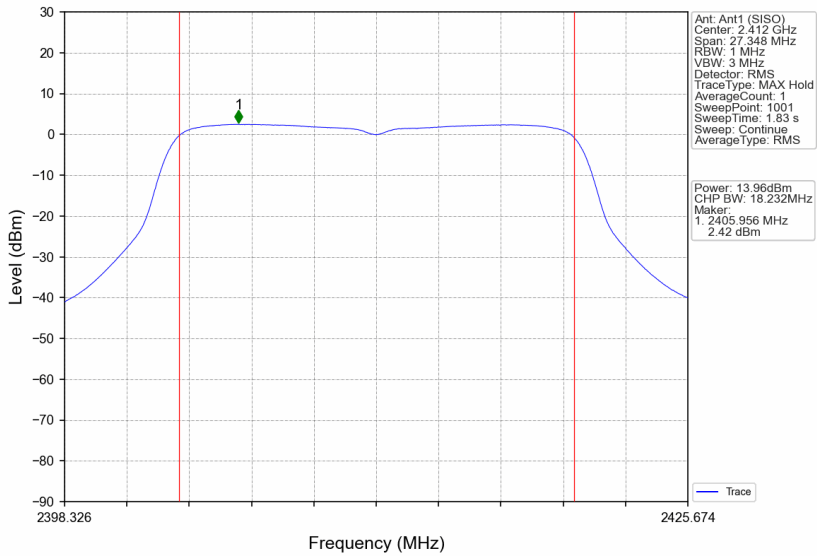
802.11g HCH 2462MHz Ant1 (SISO) NTVN



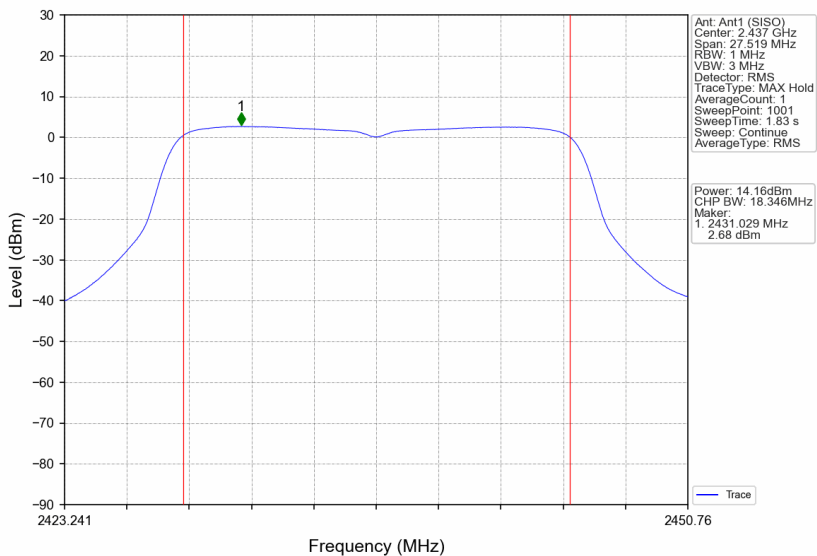
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



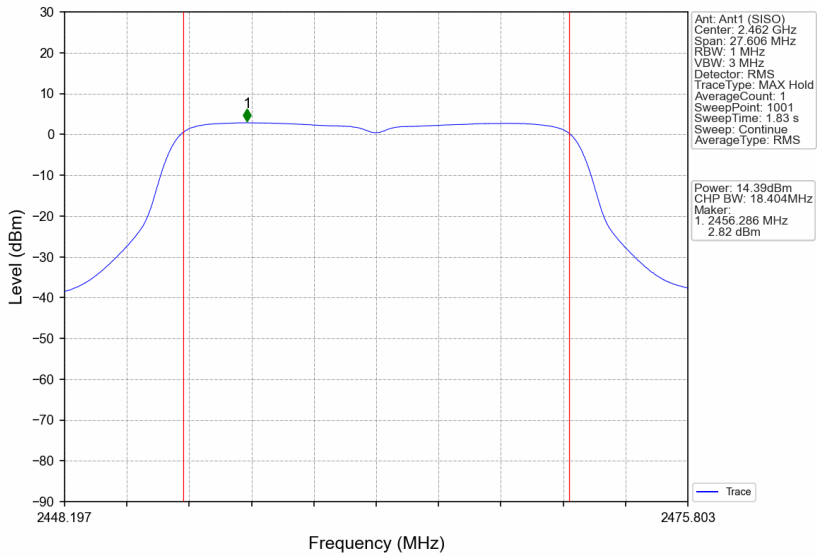
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



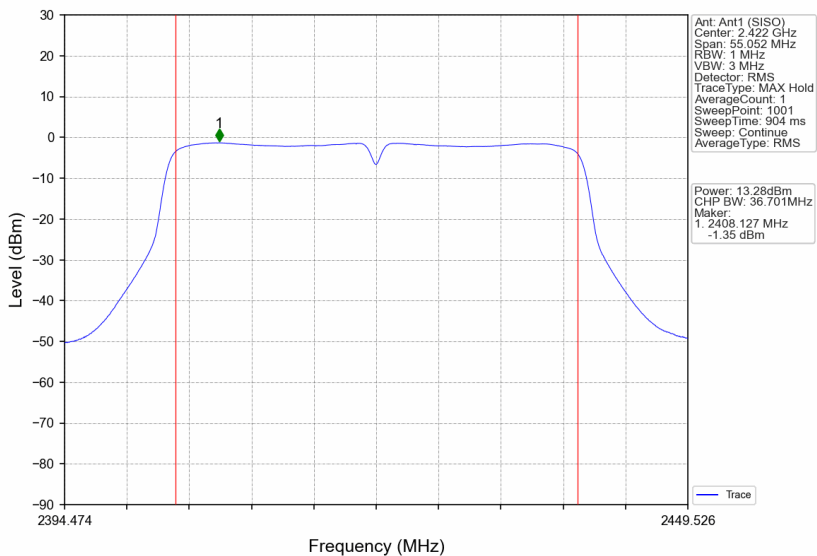
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



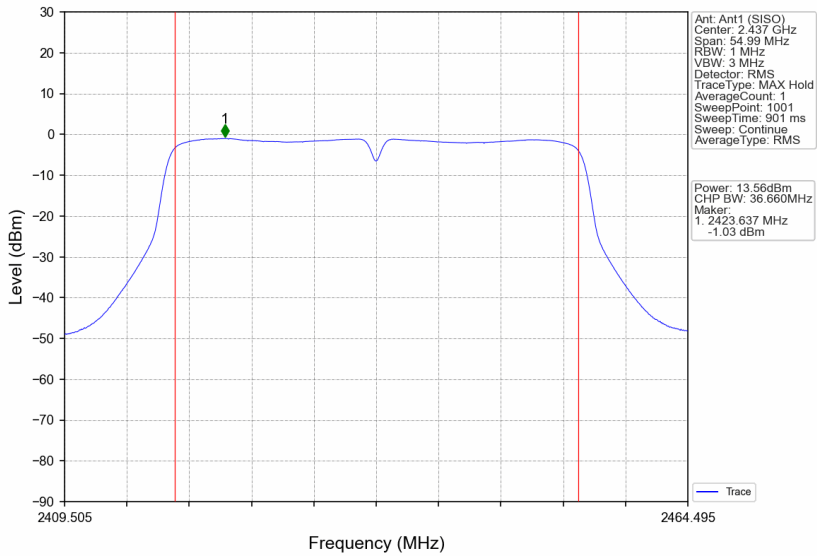
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



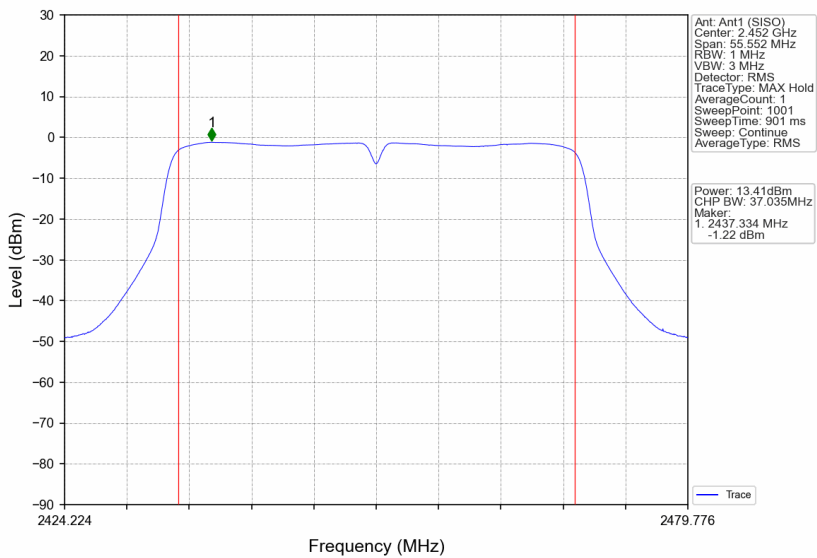
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802.11n(HT40) MCH\_2437MHz Ant1 (SISO) NTV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTV



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-7.23	<=8	Pass
		2437	-7.52	<=8	Pass
		2462	-6.74	<=8	Pass
802.11g	SISO	2412	-12.05	<=8	Pass
		2437	-11.97	<=8	Pass
		2462	-10.65	<=8	Pass
802.11n (HT20)	SISO	2412	-12.25	<=8	Pass
		2437	-11.71	<=8	Pass
		2462	-10.60	<=8	Pass
802.11n (HT40)	SISO	2422	-14.89	<=8	Pass
		2437	-15.07	<=8	Pass
		2452	-15.57	<=8	Pass

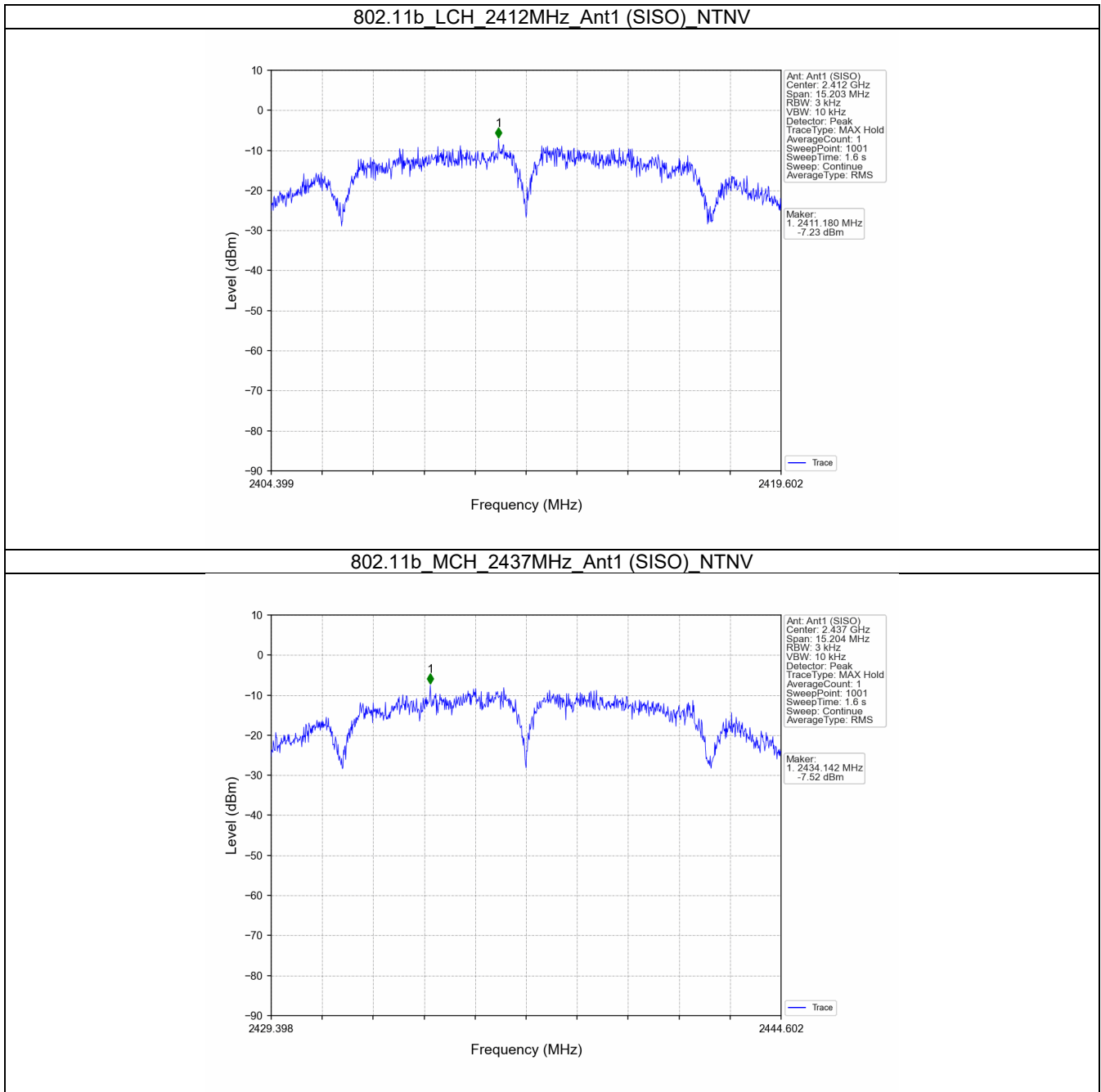
Note1: Antenna Gain: Ant1: 4.00dBi;



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4.1.2 Test Graph

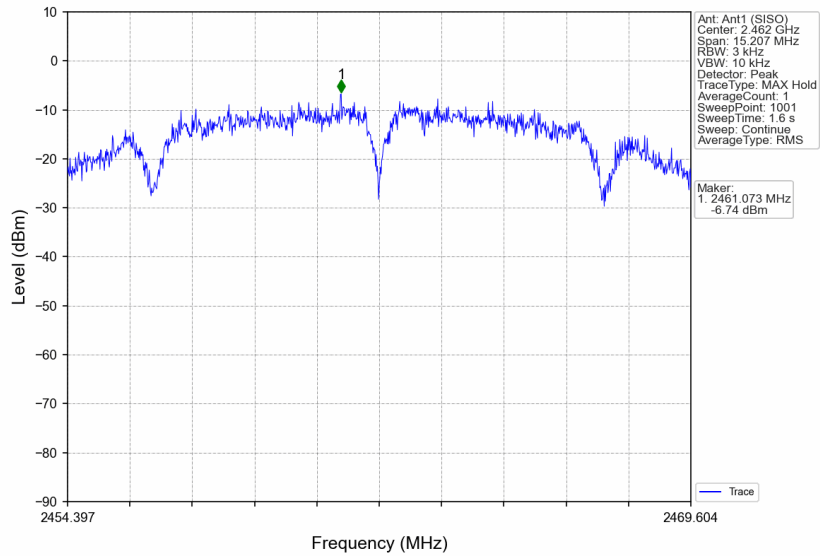


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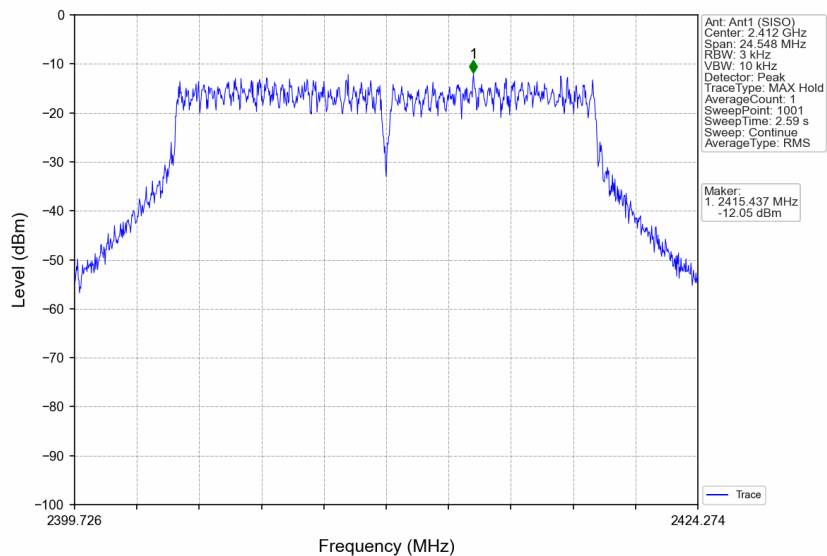
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN



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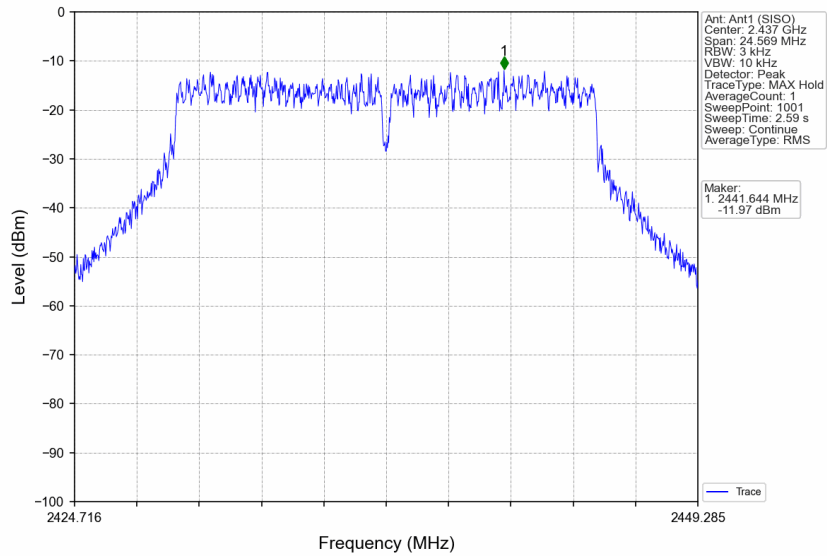
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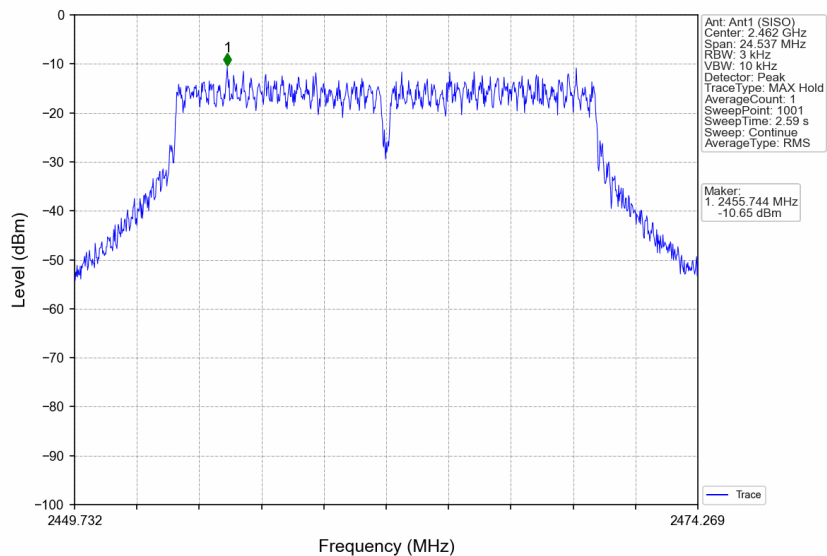
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN

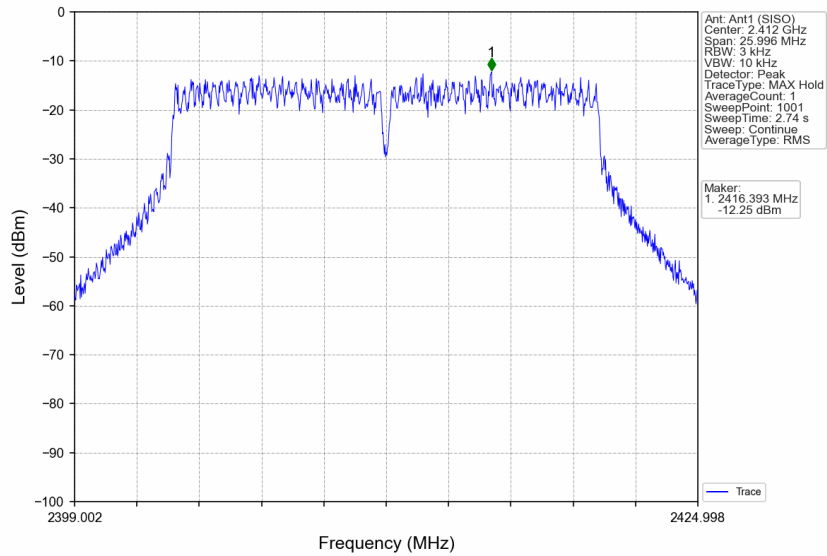


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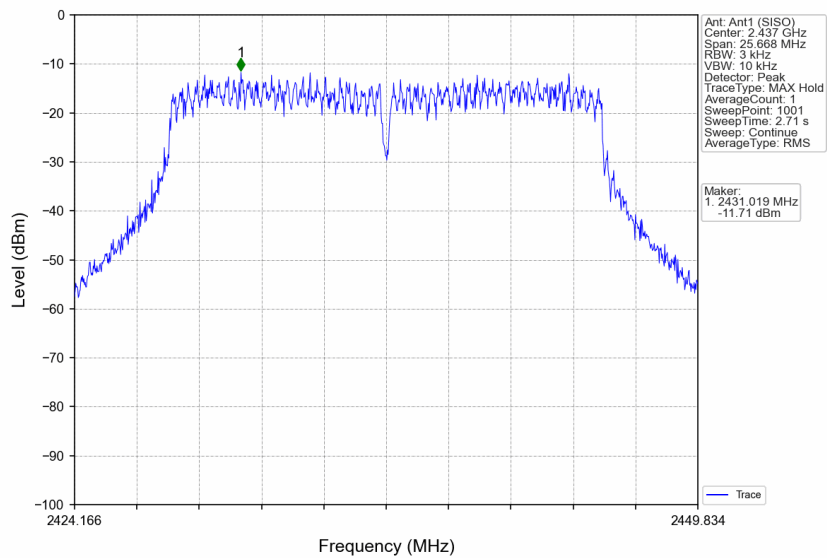
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

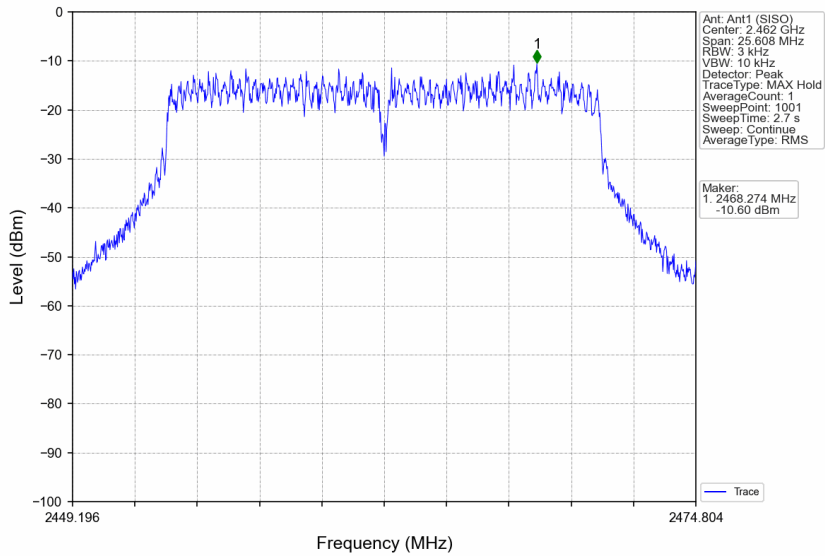


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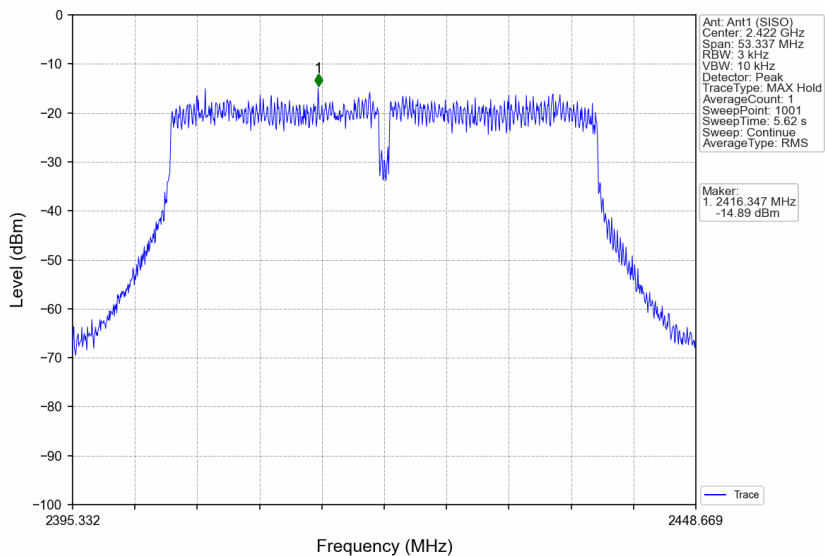
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



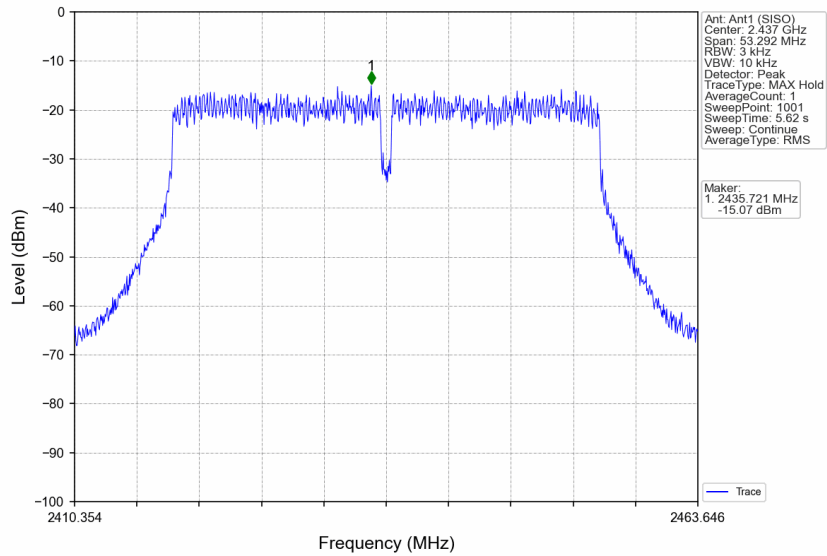
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



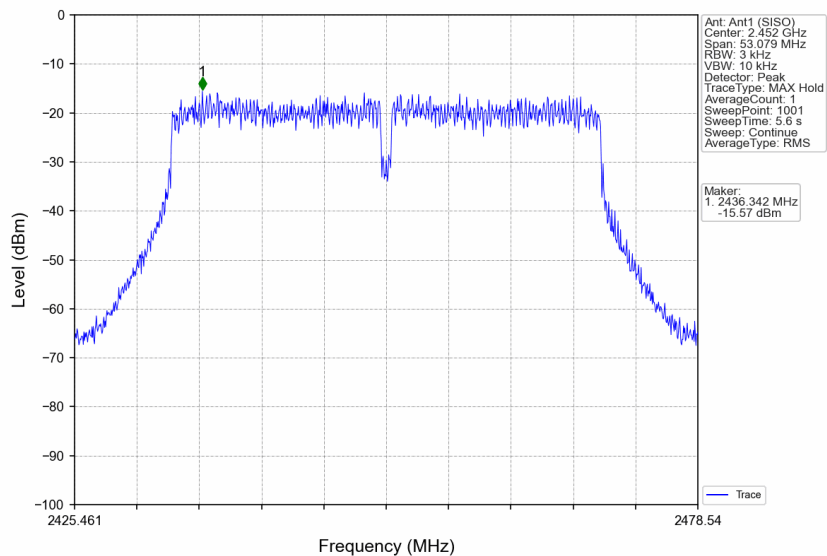
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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTV



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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	6.91
		2437	1	7.00
		2462	1	7.33
802.11g	SISO	2412	1	3.19
		2437	1	3.21
		2462	1	3.42
802.11n (HT20)	SISO	2412	1	3.20
		2437	1	3.48
		2462	1	3.65
802.11n (HT40)	SISO	2422	1	-0.80
		2437	1	-0.42
		2452	1	-0.64

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

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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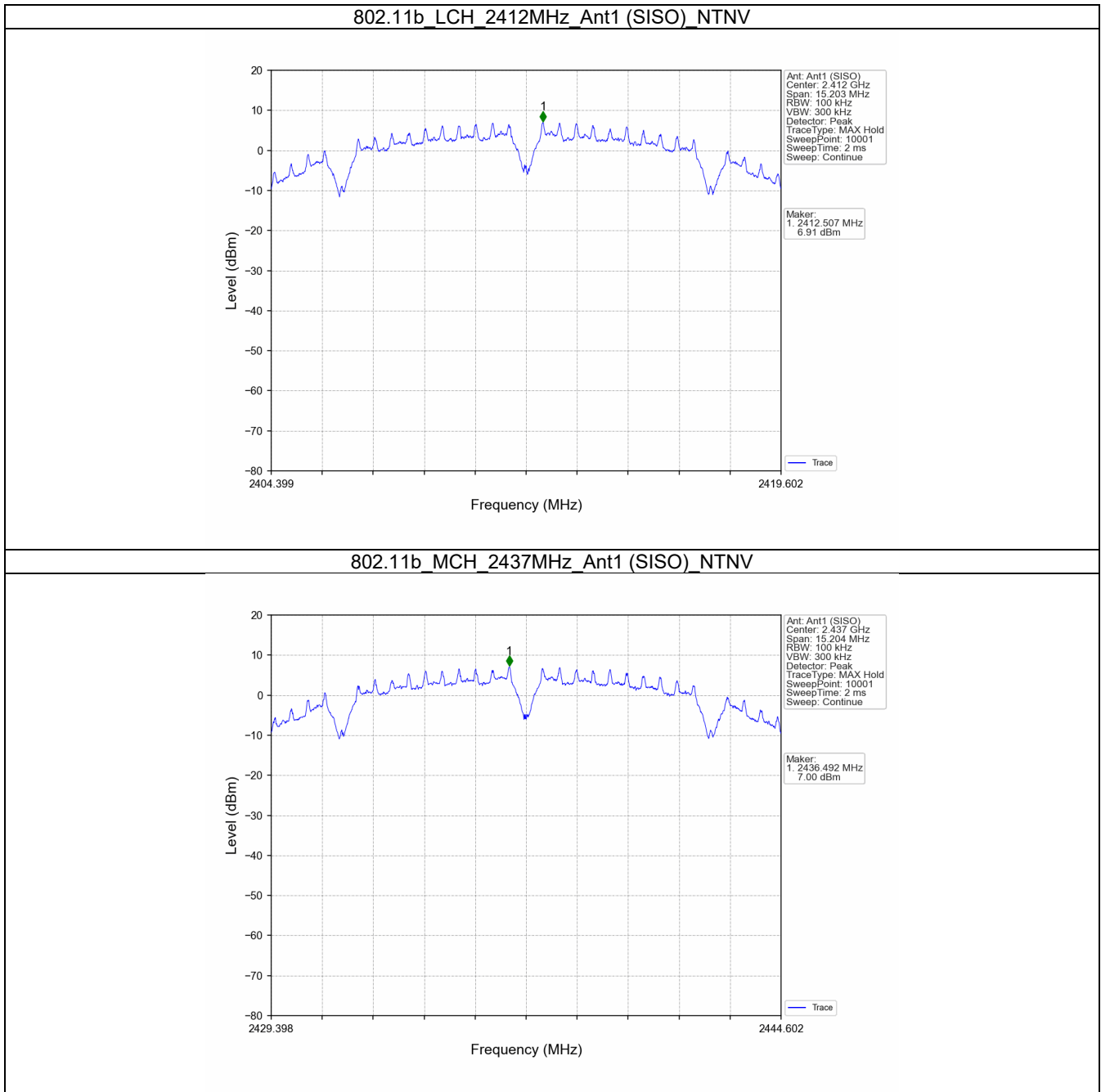
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5.1.2 Test Graph

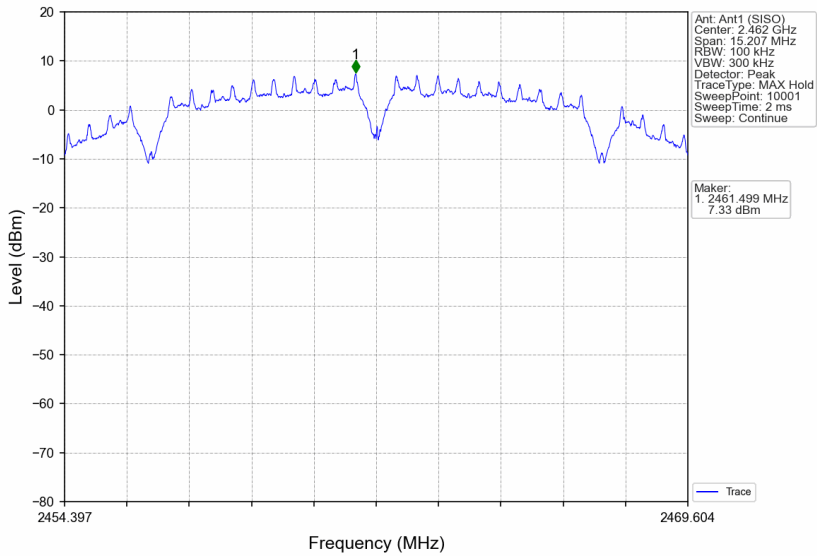


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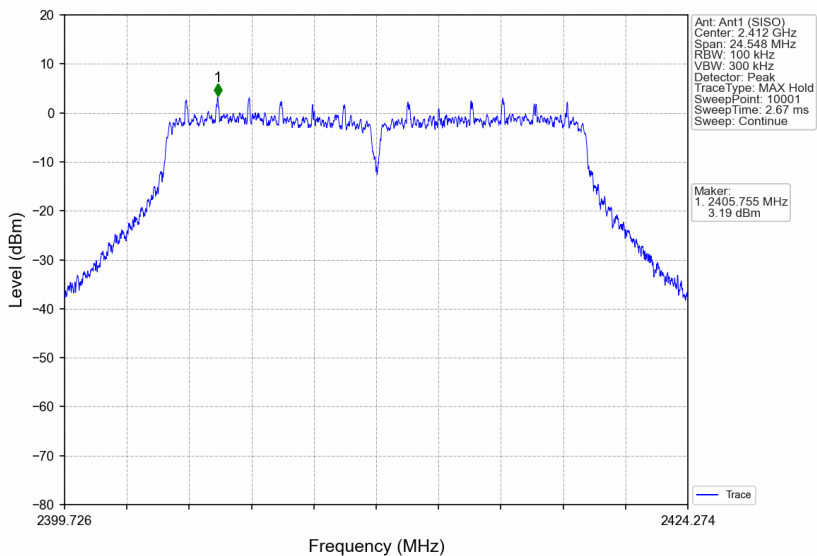
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802.11b HCH 2462MHz Ant1 (SISO) NTN



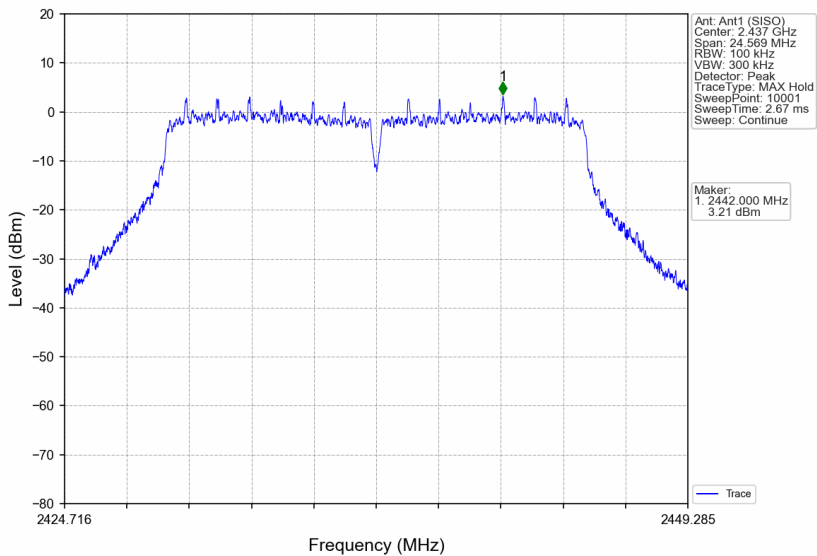
802.11g LCH 2412MHz Ant1 (SISO) NTN



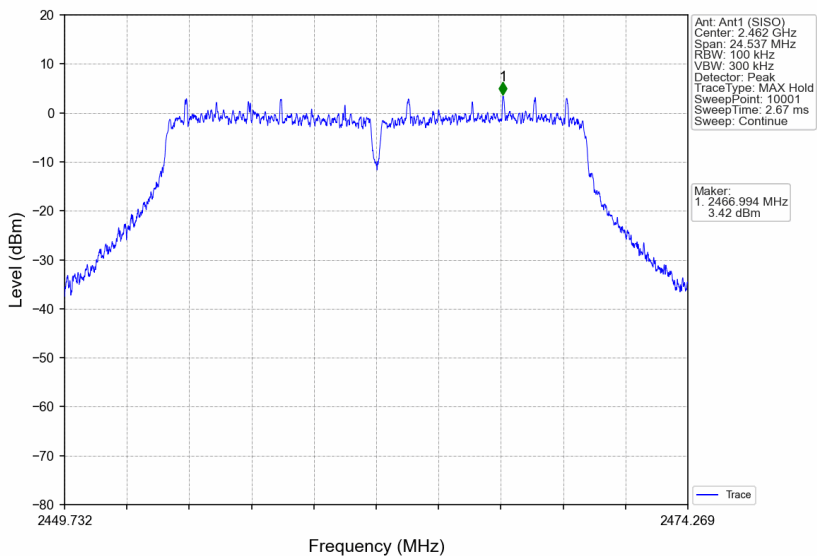
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN



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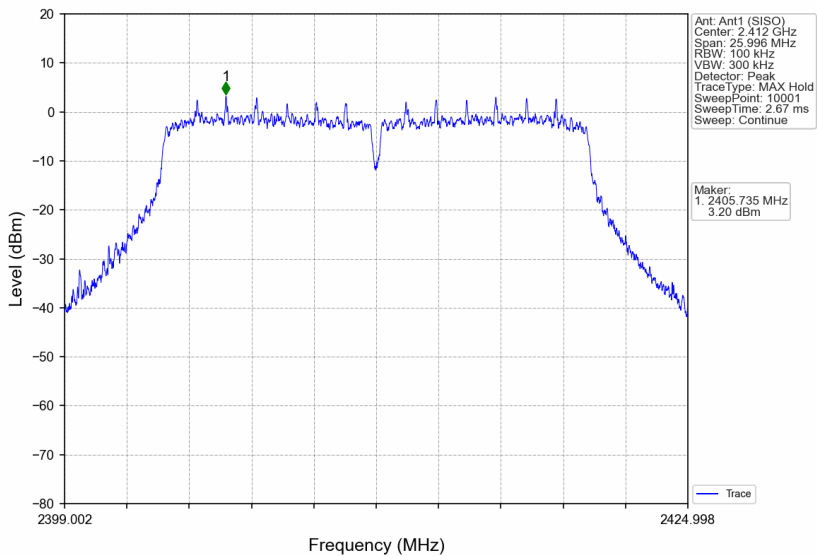
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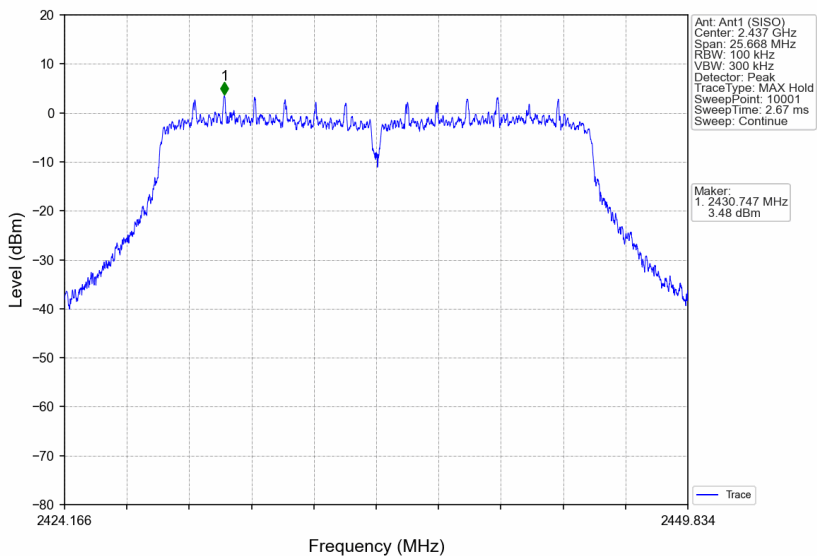
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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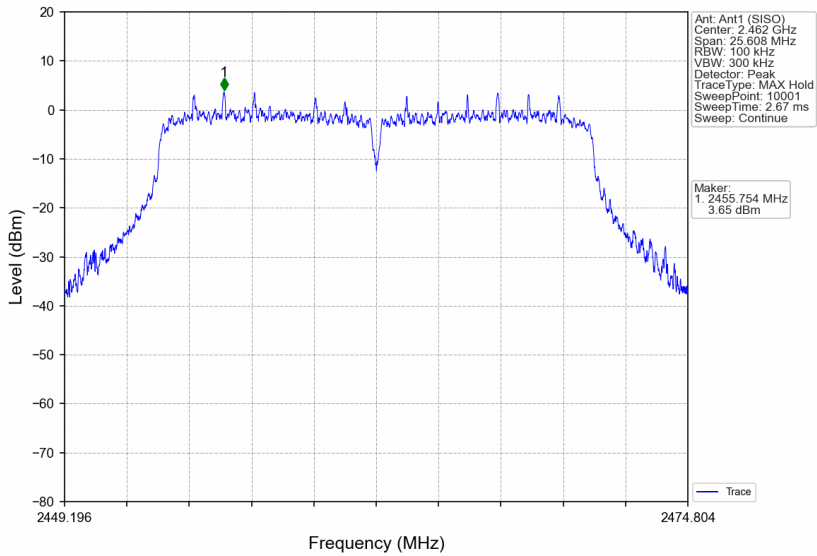
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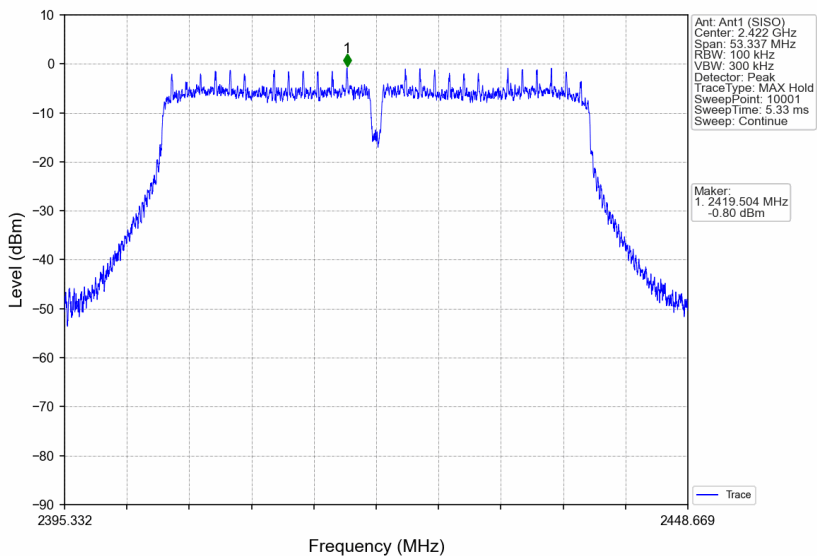
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



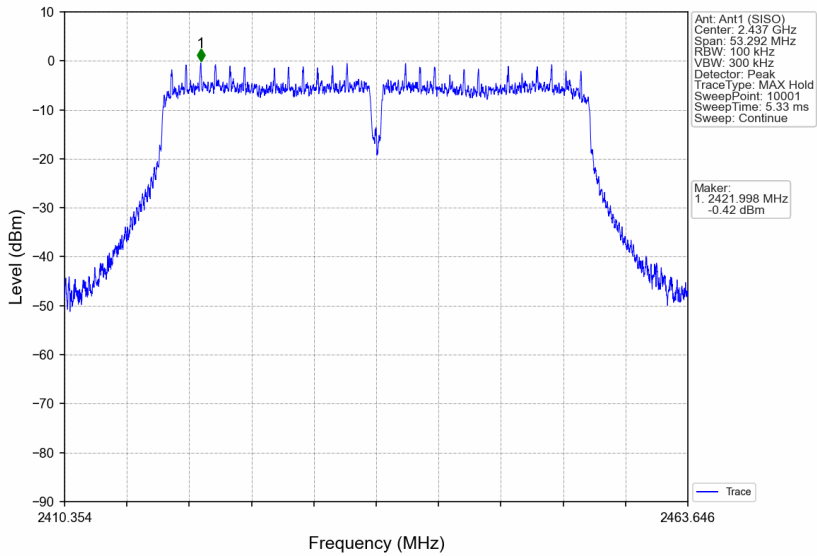
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



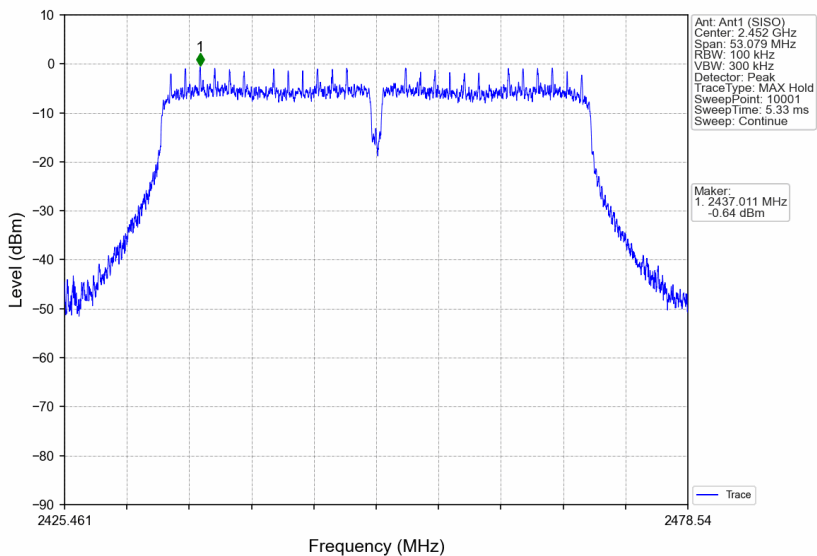
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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTV



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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.33	-22.67	Pass
		2437	1	7.33	-22.67	Pass
		2462	1	7.33	-22.67	Pass
802.11g	SISO	2412	1	3.42	-26.58	Pass
		2437	1	3.42	-26.58	Pass
		2462	1	3.42	-26.58	Pass
802.11n (HT20)	SISO	2412	1	3.65	-26.35	Pass
		2437	1	3.65	-26.35	Pass
		2462	1	3.65	-26.35	Pass
802.11n (HT40)	SISO	2422	1	-0.42	-30.42	Pass
		2437	1	-0.42	-30.42	Pass
		2452	1	-0.42	-30.42	Pass

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

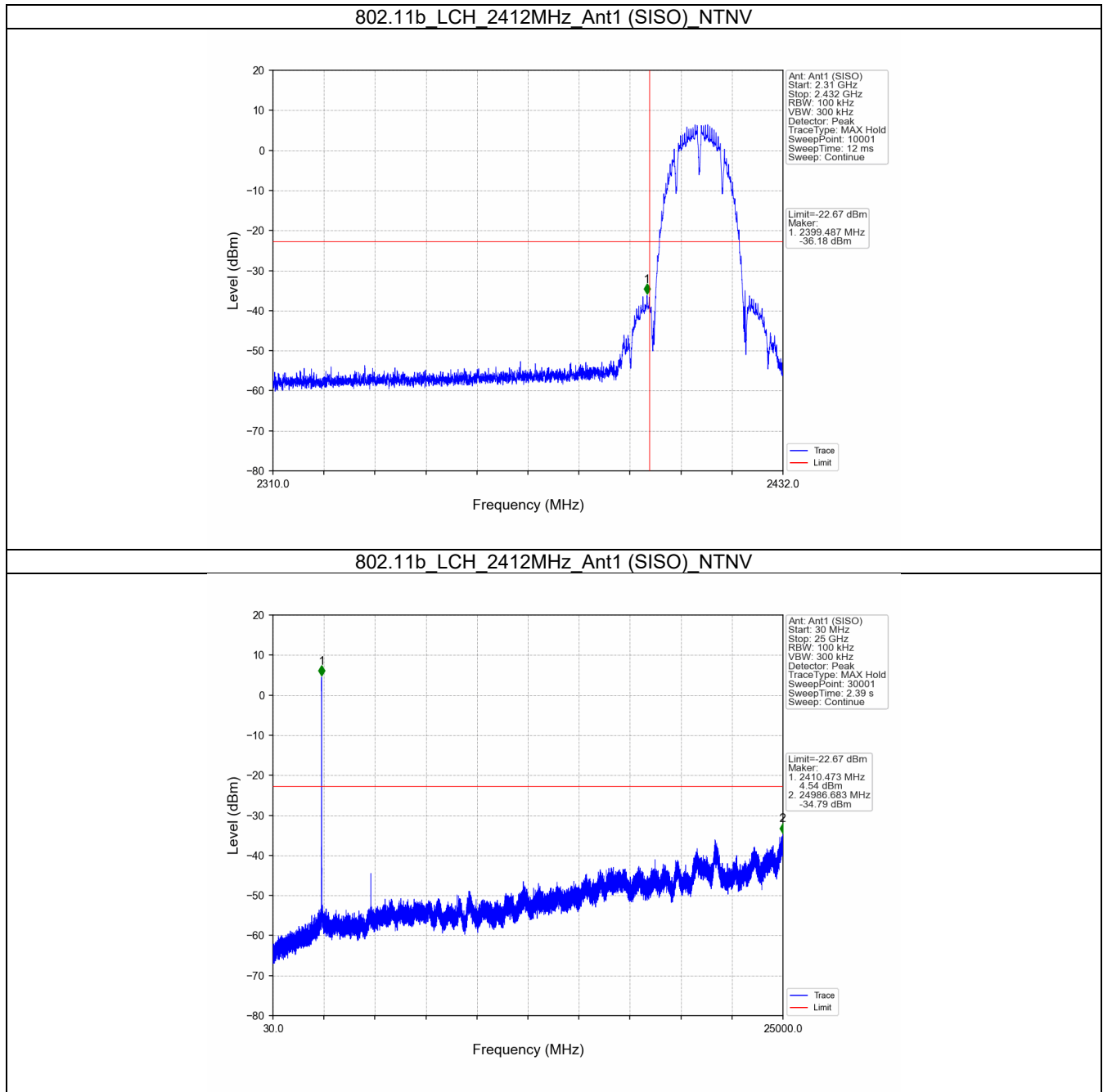
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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5.2.2 Test Graph

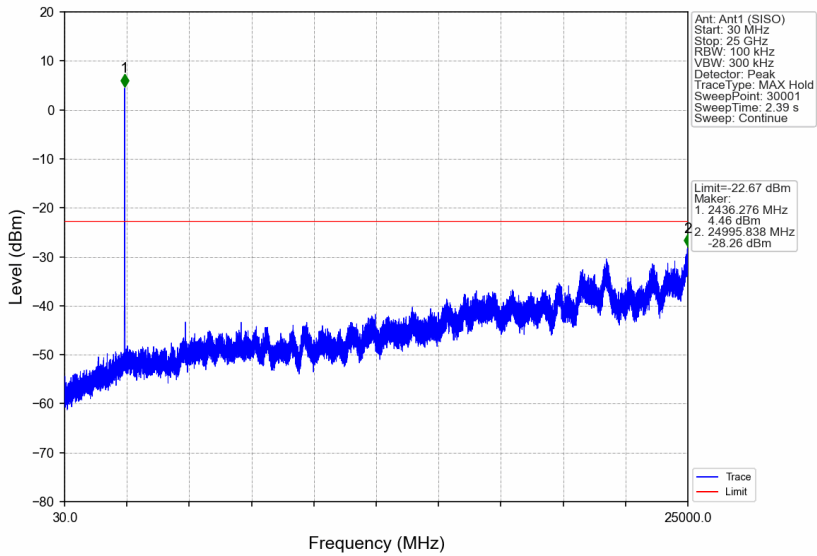


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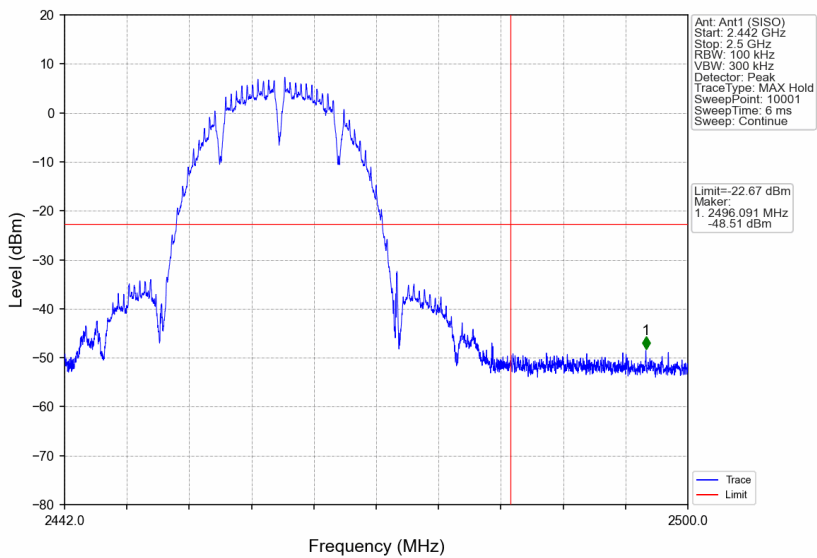
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802.11b MCH 2437MHz Ant1 (SISO) NTN



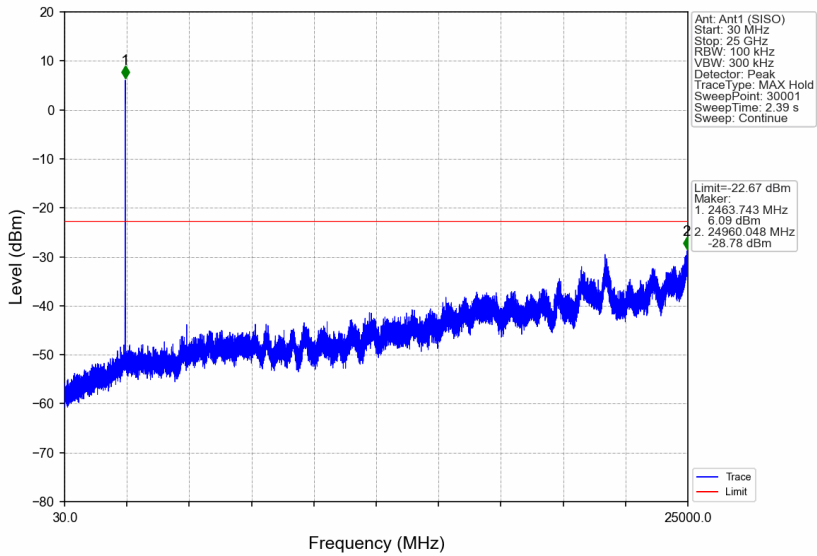
802.11b HCH 2462MHz\_Ant1 (SISO)\_NTN



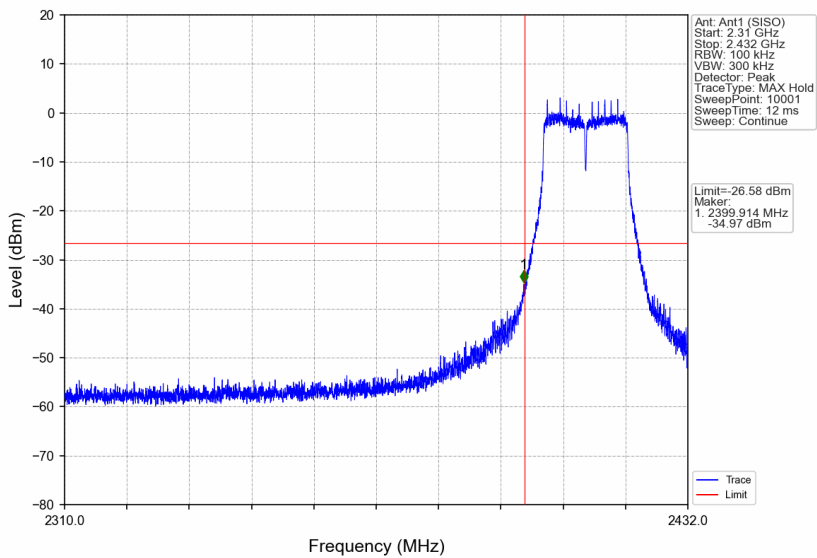
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802.11b HCH 2462MHz Ant1 (SISO) NTN



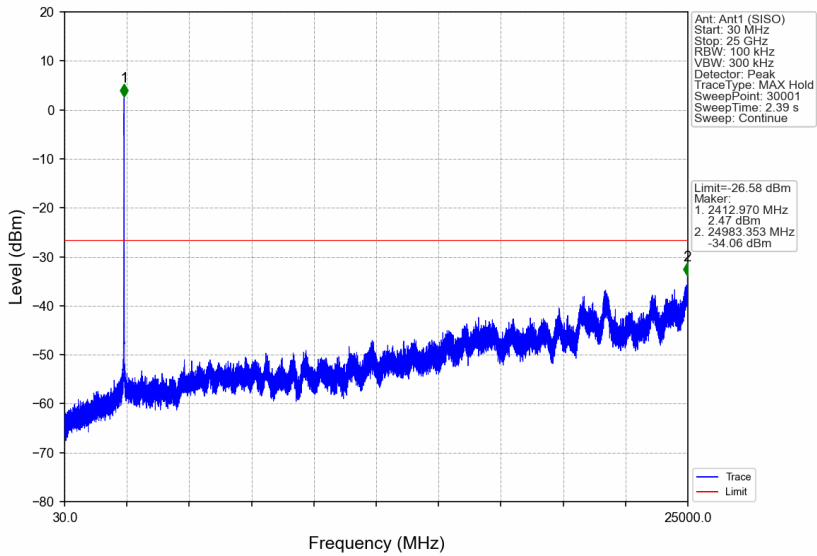
802.11g LCH 2412MHz Ant1 (SISO) NTN



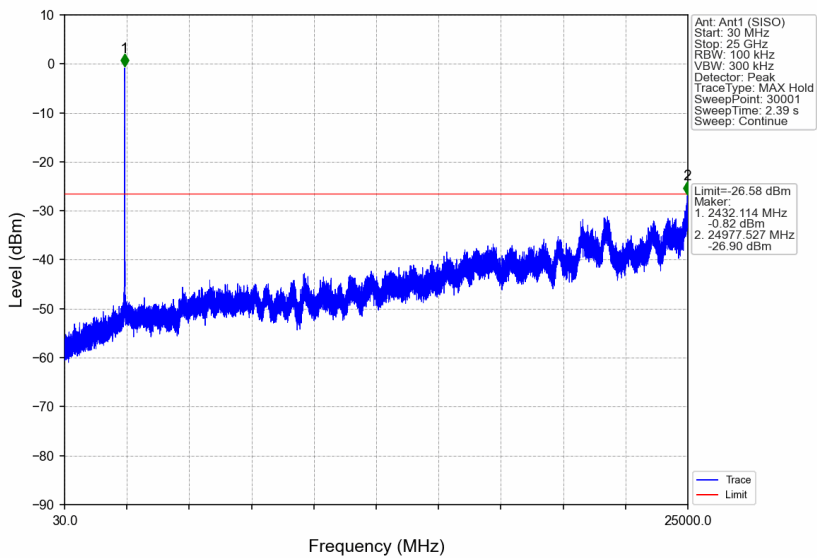
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802.11g LCH 2412MHz Ant1 (SISO) NTN



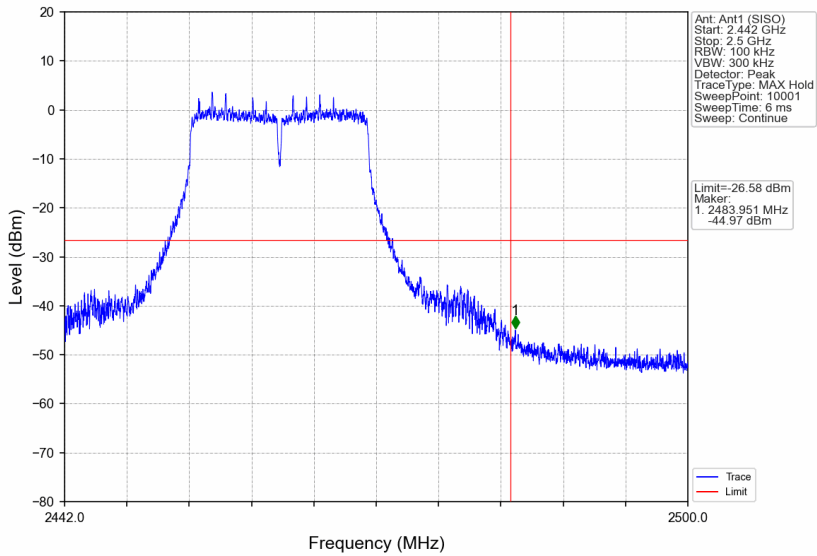
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



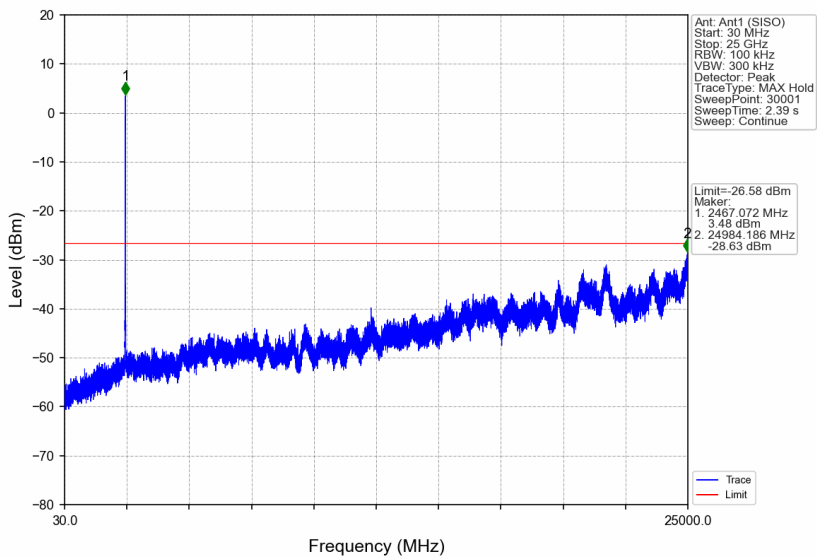
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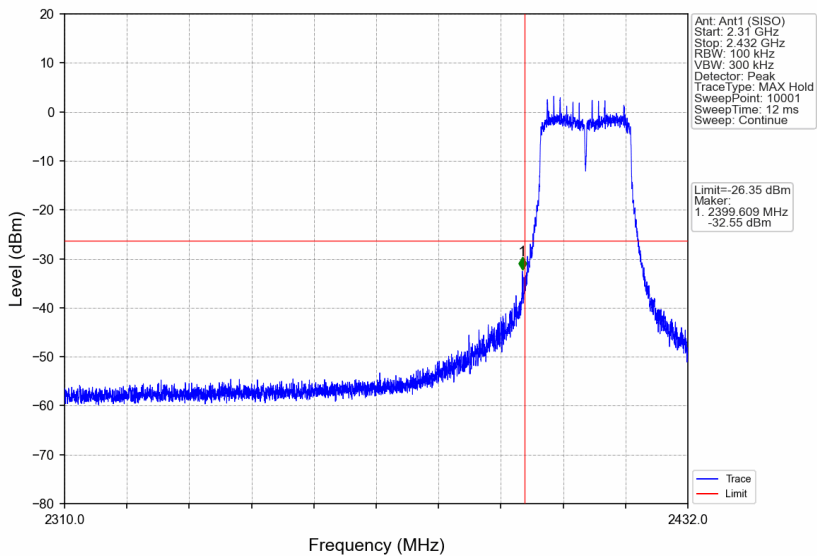


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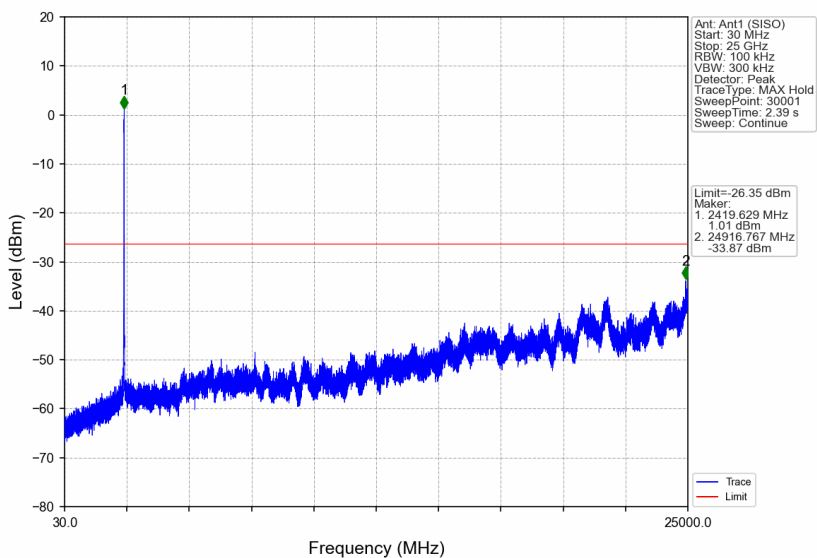
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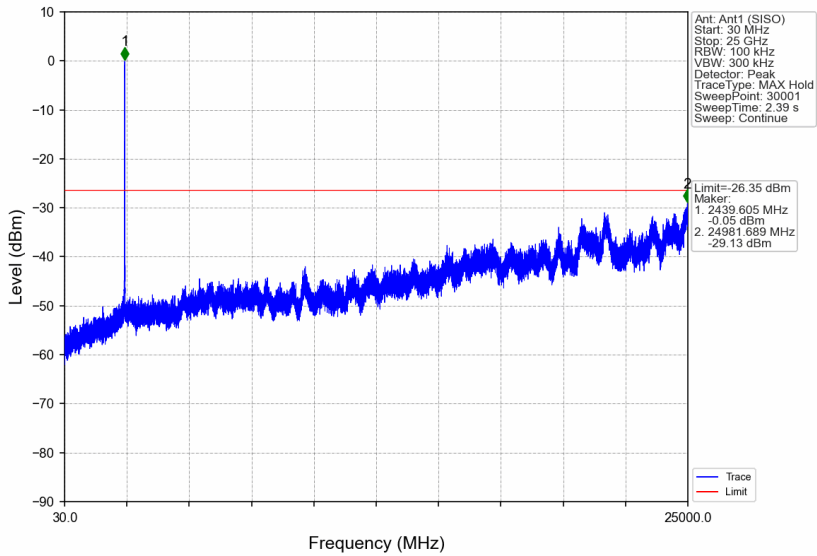
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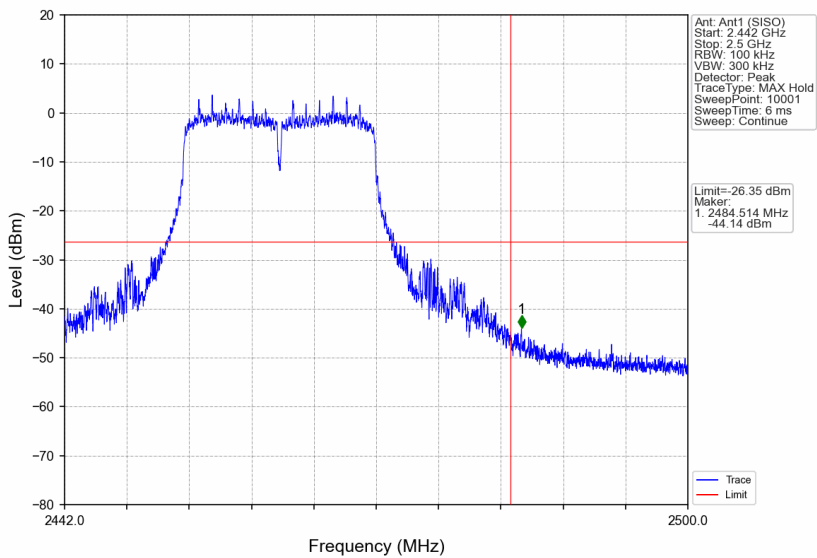
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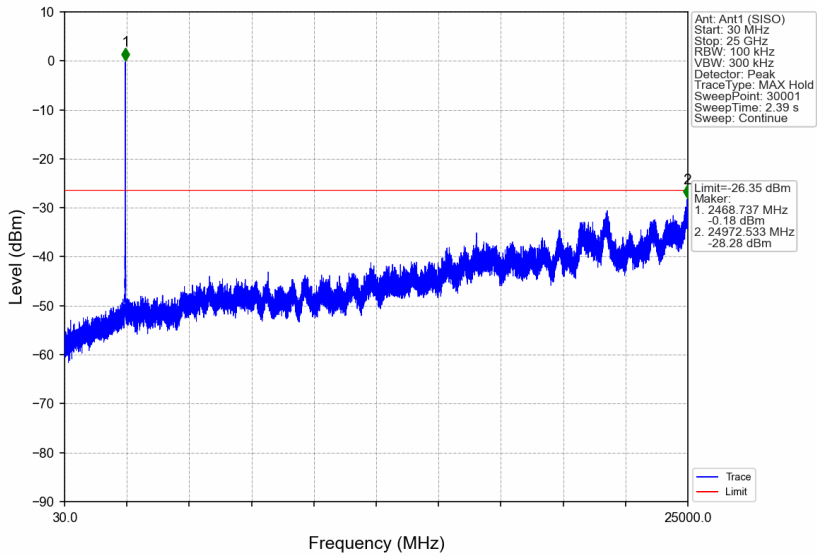
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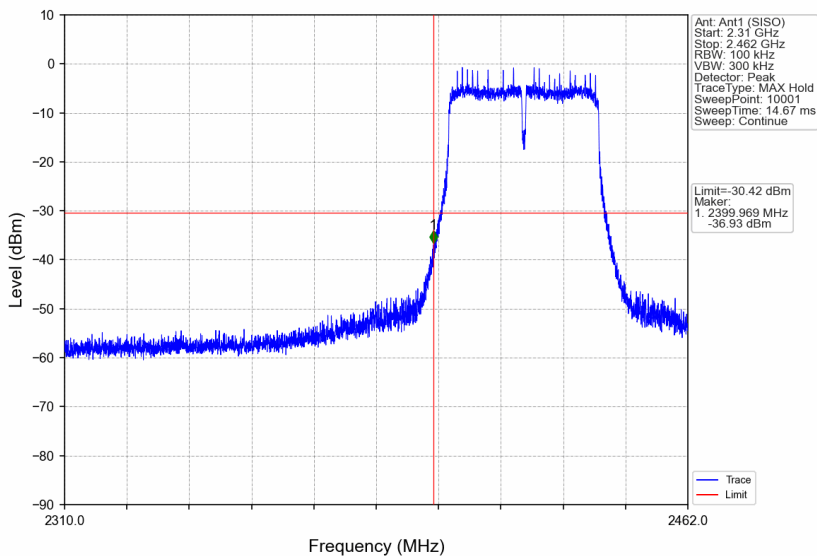
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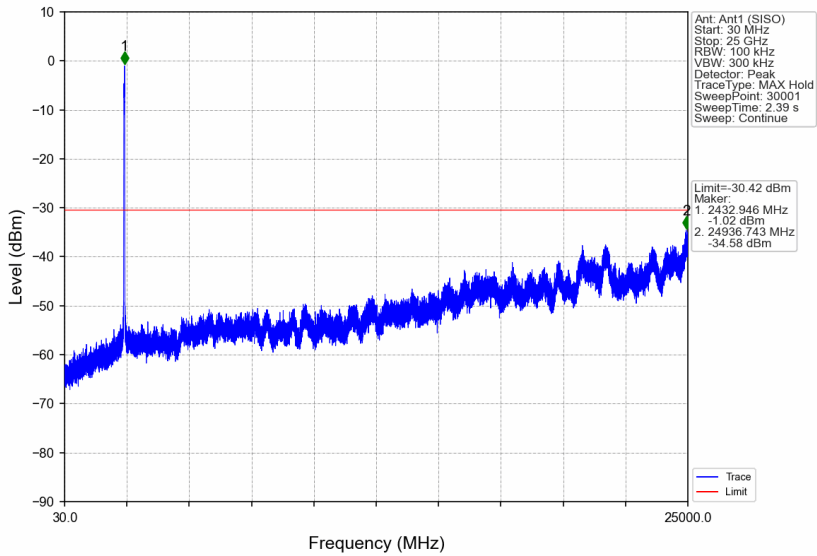
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO) NTN



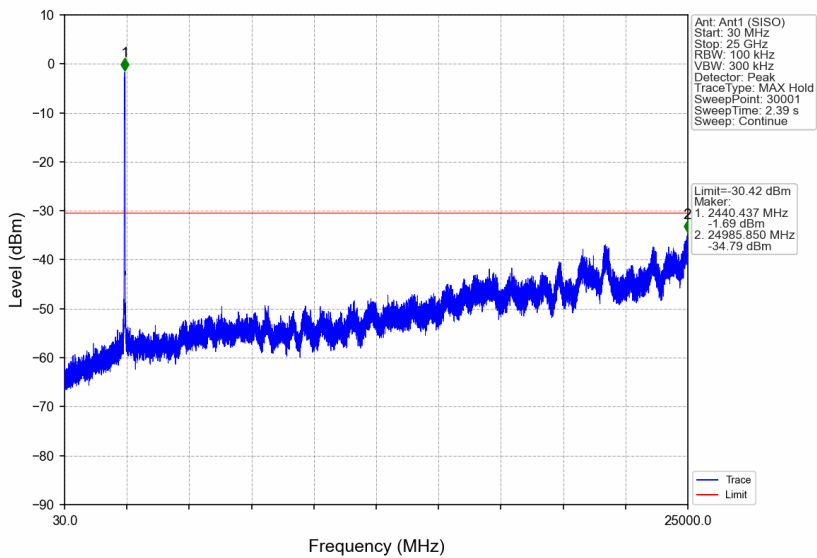
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802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



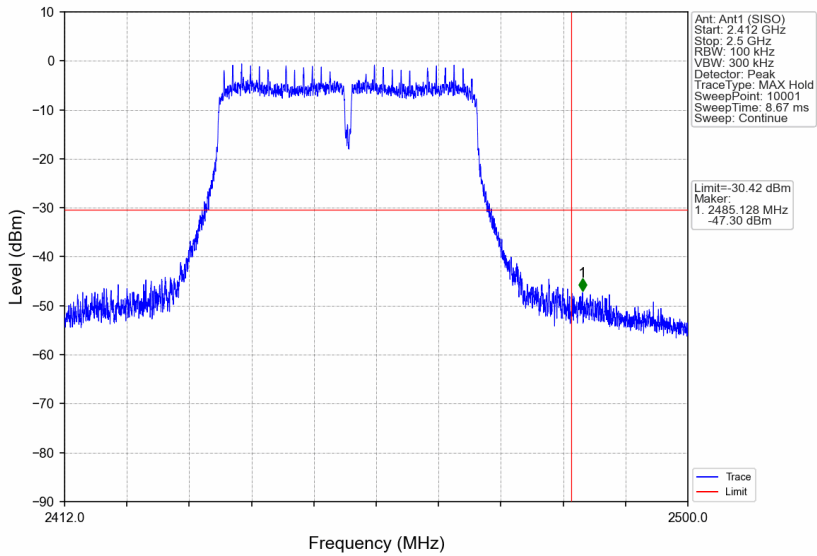
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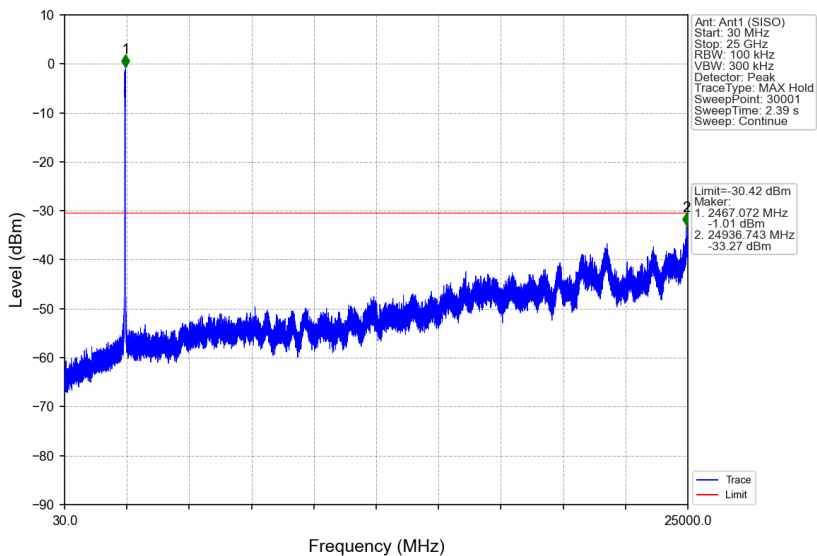
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTV



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