

## Appendix A for SHCR220100008501

## 1. Duty Cycle

## 1.1 Ant1

## 1.1.1 Test Result

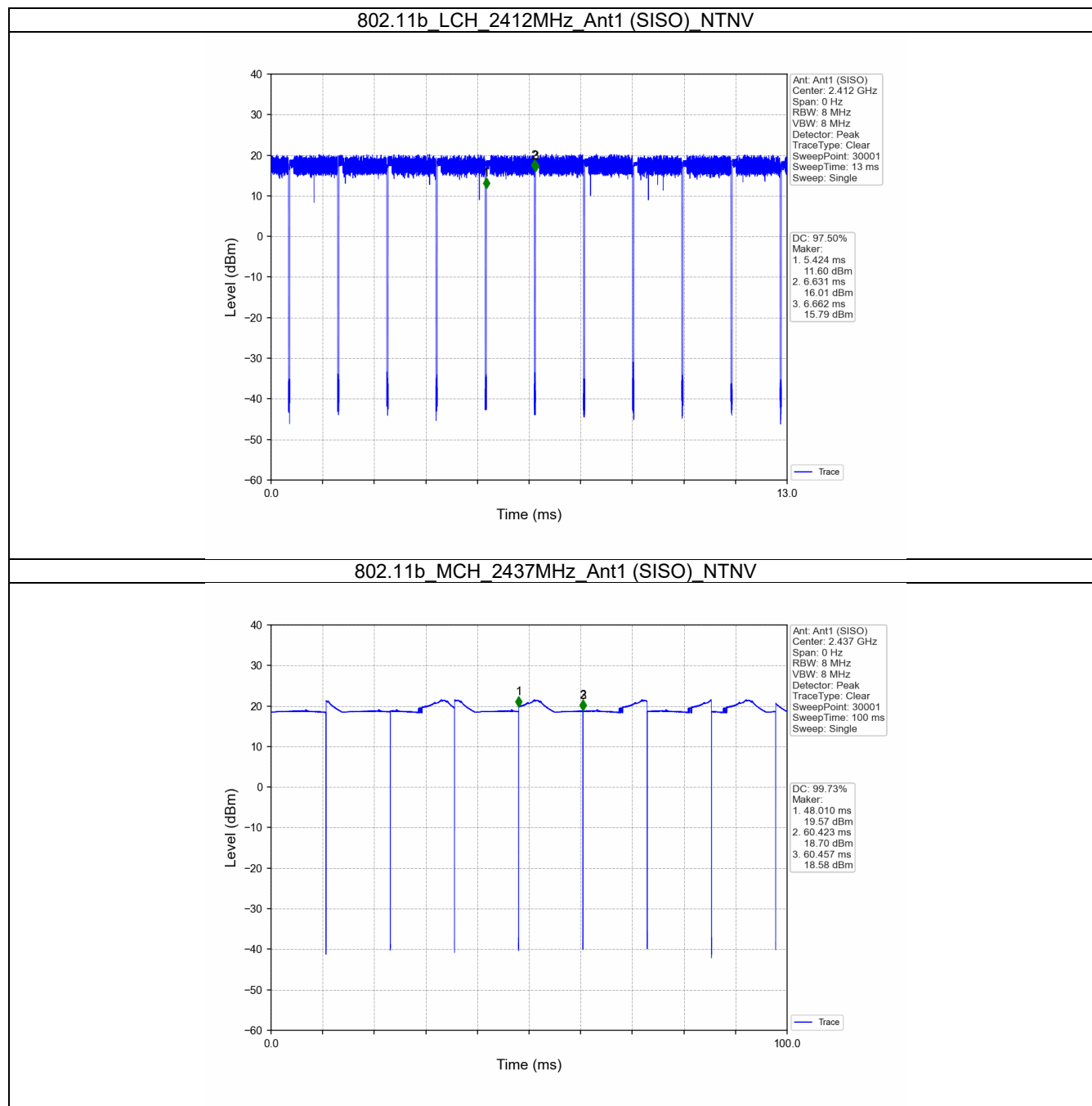
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	1.207	1.238	97.50	0.11	0.03
		2437	12.413	12.447	99.73	0.01	0.03
		2462	12.413	12.446	99.73	0.01	0.03
802.11g	SISO	2412	2.064	2.103	98.15	0.08	0.03
		2437	2.064	2.102	98.19	0.08	0.07
		2462	2.063	2.102	98.14	0.08	0.00
802.11n (HT20)	SISO	2412	1.920	1.959	98.01	0.09	0.03
		2437	1.919	1.957	98.06	0.09	0.00
		2462	1.919	1.958	98.01	0.09	0.03



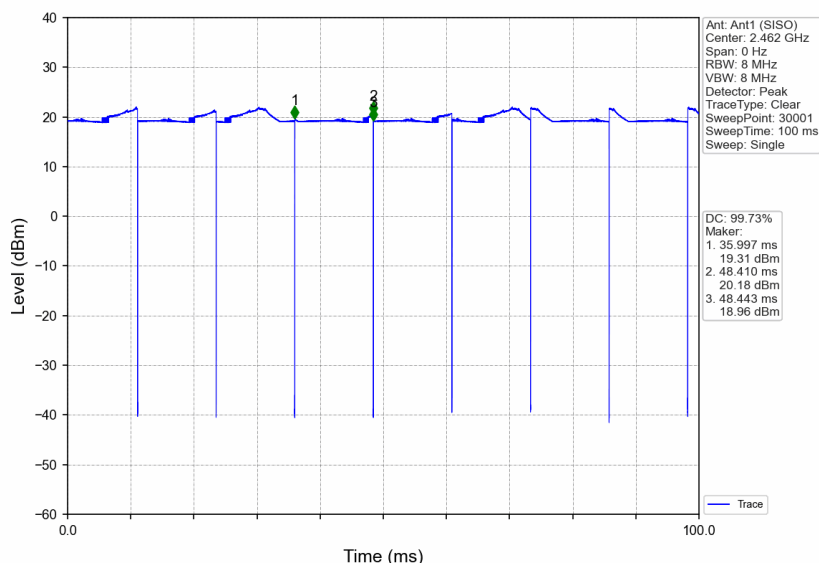
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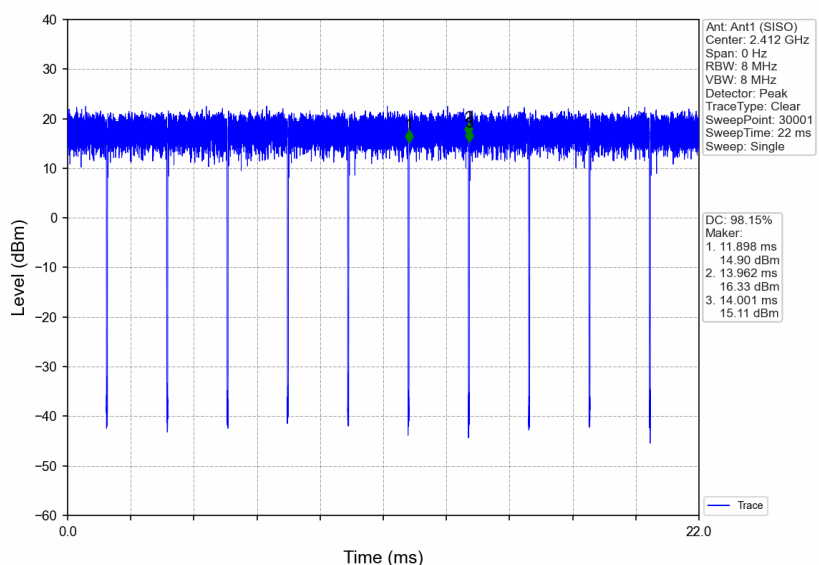
## 1.1.2 Test Graph



802.11b HCH 2462MHz Ant1 (SISO) NTN



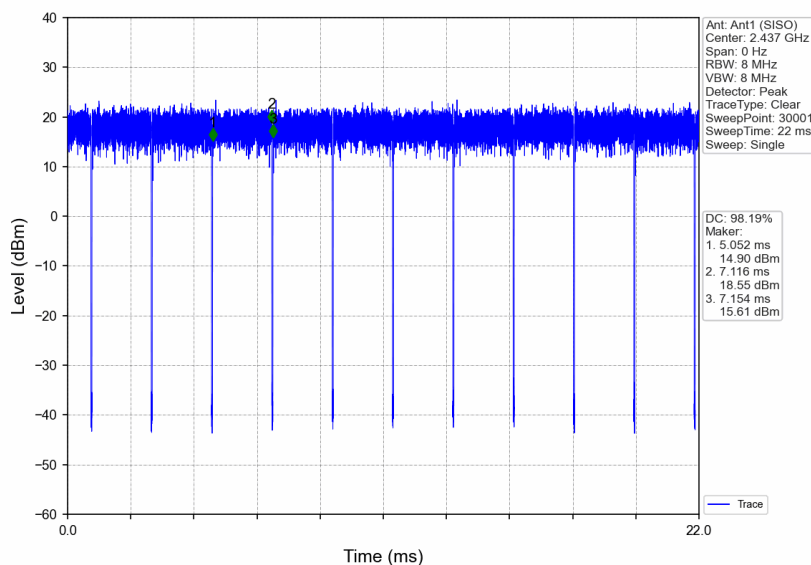
802.11g LCH 2412MHz Ant1 (SISO) NTN



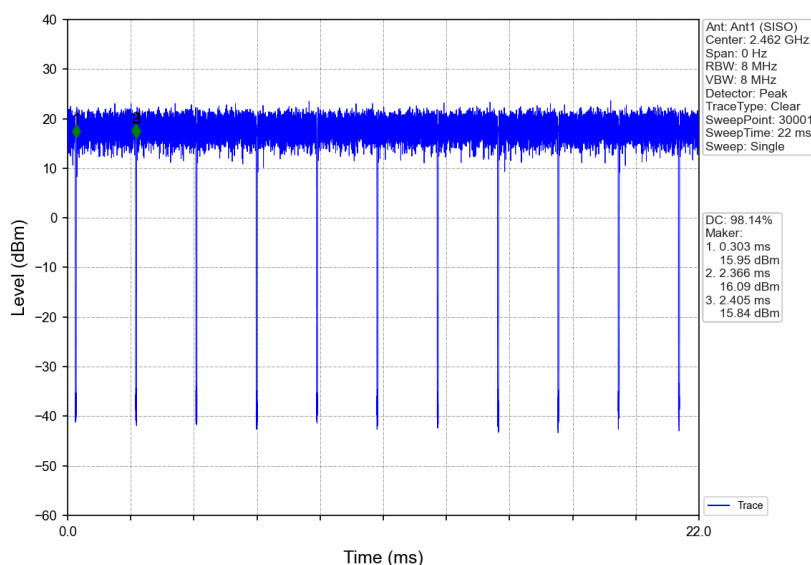
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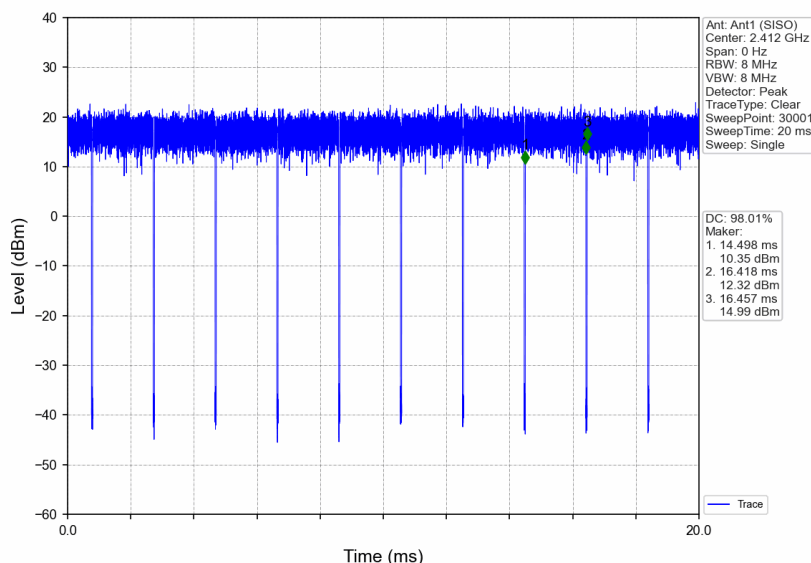
802.11g MCH 2437MHz Ant1 (SISO) NTN



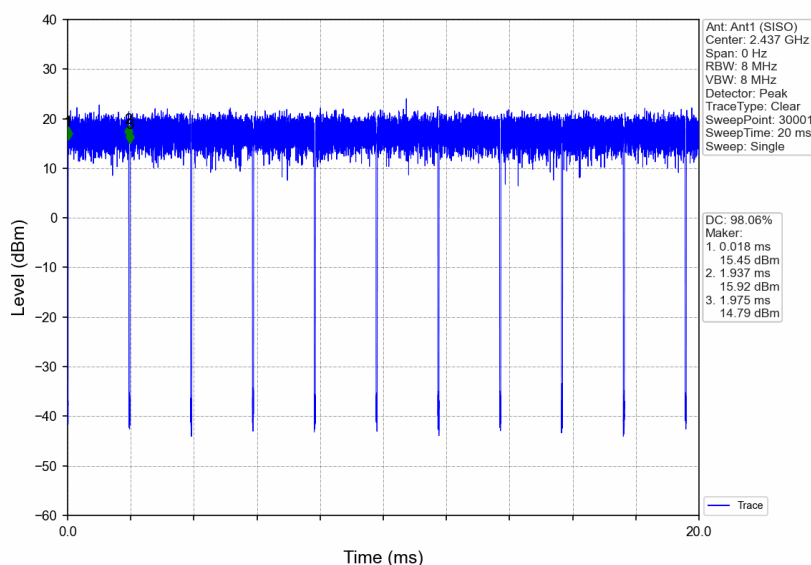
802.11g HCH 2462MHz Ant1 (SISO) NTN



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



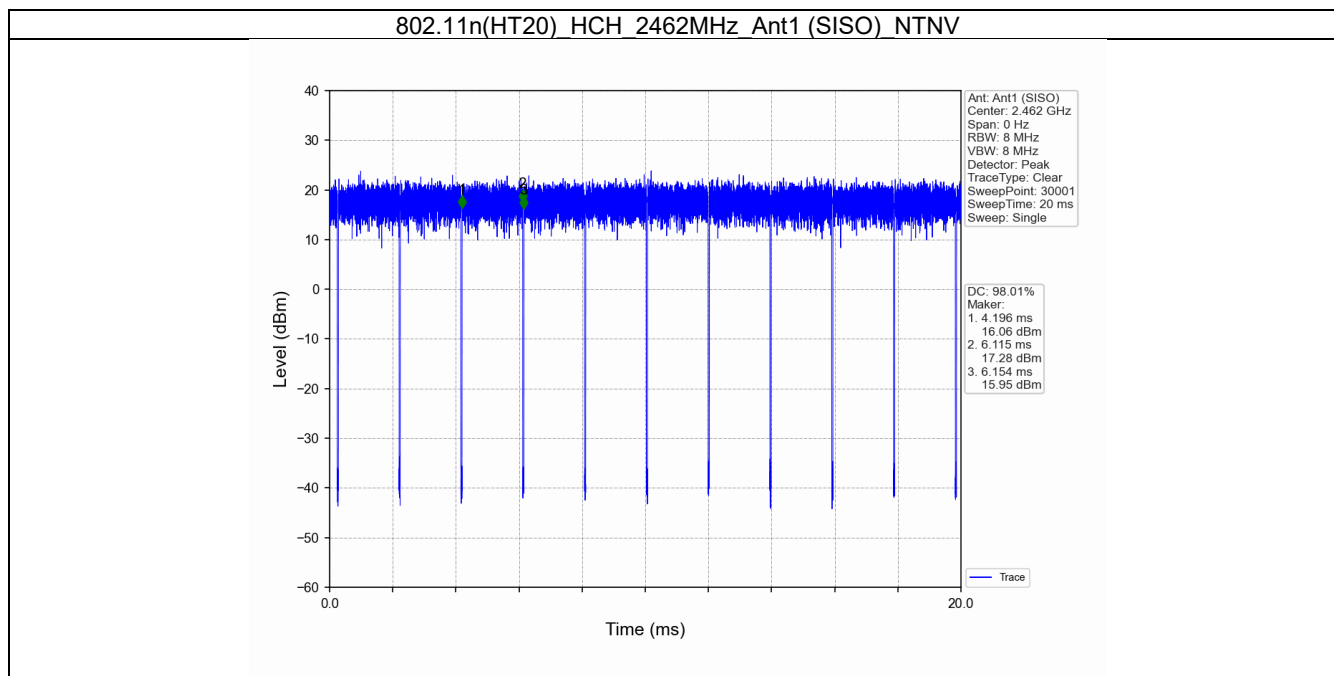
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

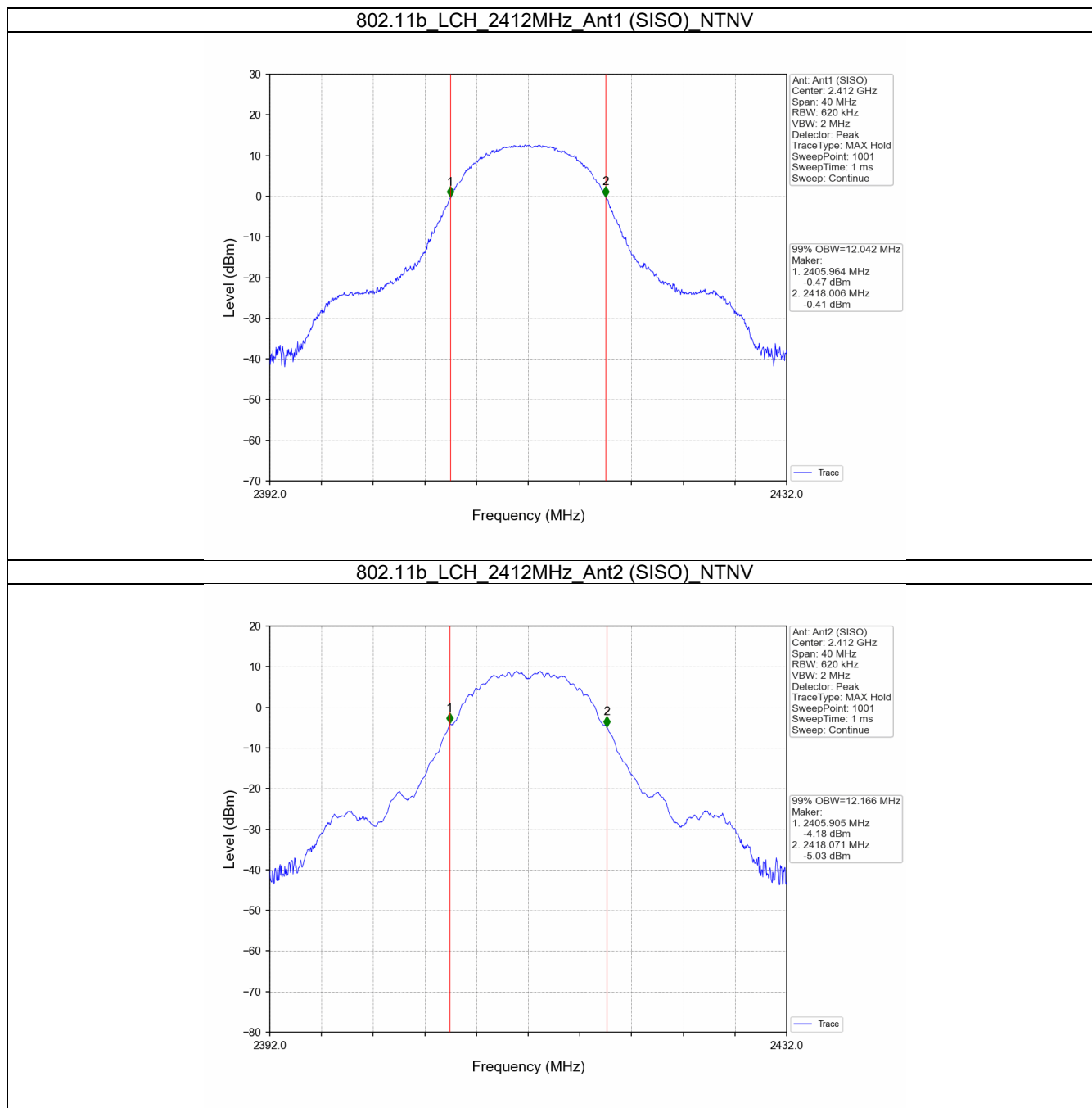
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	12.042	Pass
			2	12.166	Pass
		2437	1	12.047	Pass
			2	12.075	Pass
		2462	1	11.685	Pass
			2	11.633	Pass
802.11g	SISO	2412	1	17.556	Pass
			2	17.555	Pass
		2437	1	17.639	Pass
			2	17.634	Pass
		2462	1	17.668	Pass
			2	17.558	Pass
802.11n (HT20)	SISO	2412	1	18.648	Pass
			2	18.611	Pass
		2437	1	18.754	Pass
			2	18.648	Pass
		2462	1	18.718	Pass
			2	18.758	Pass



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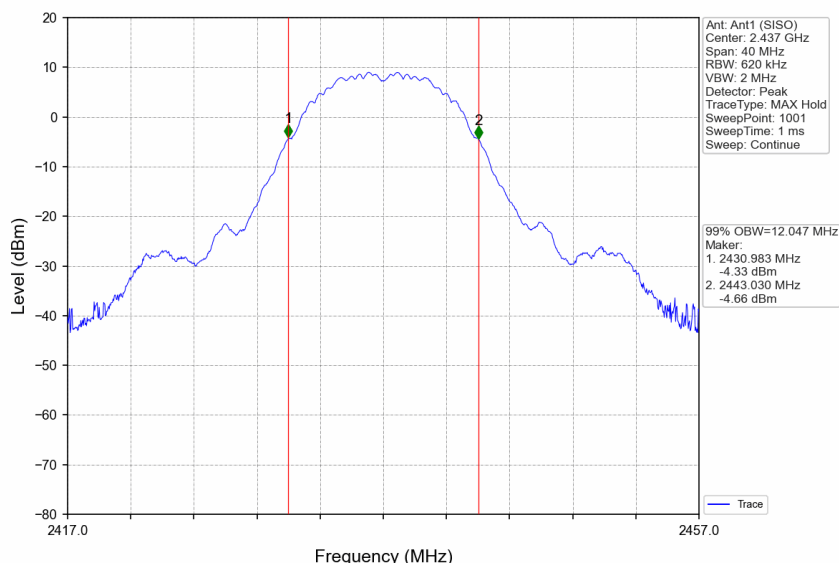
## 2.1.2 Test Graph



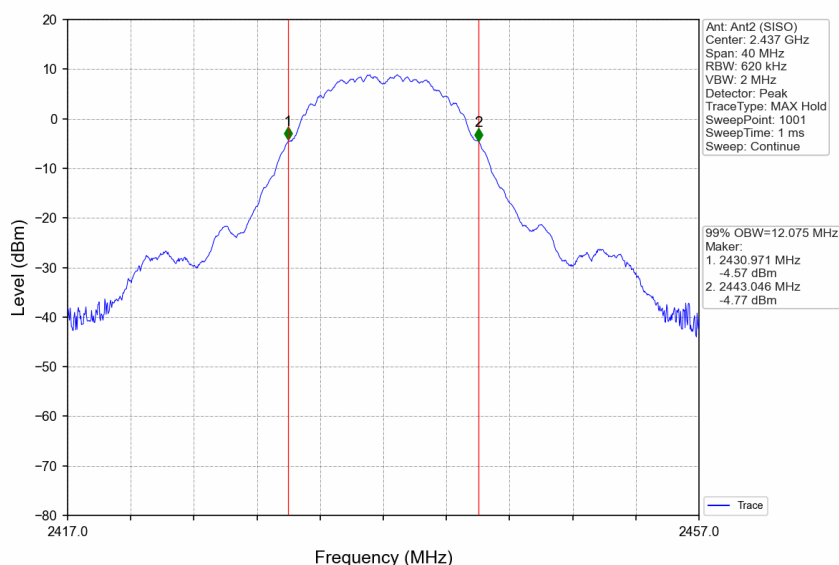
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## 802.11b MCH 2437MHz Ant1 (SISO) NTN



## 802.11b MCH 2437MHz Ant2 (SISO) NTN

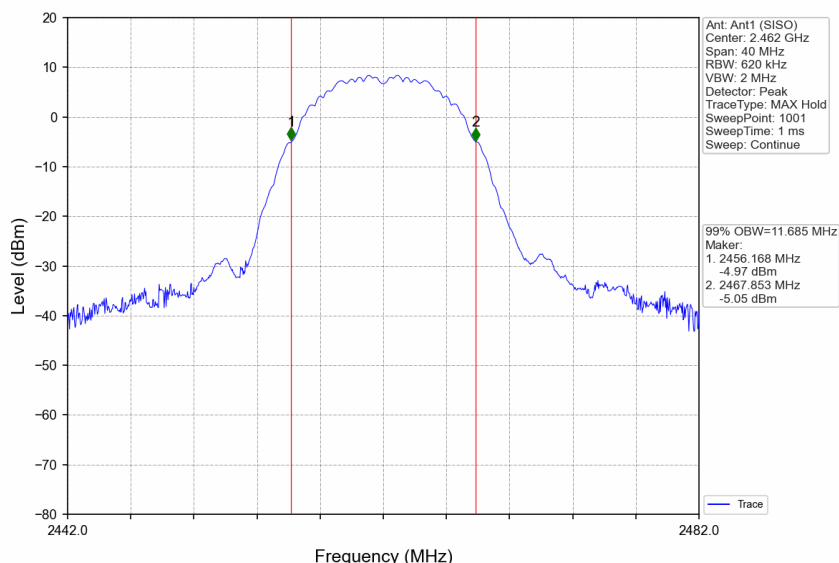


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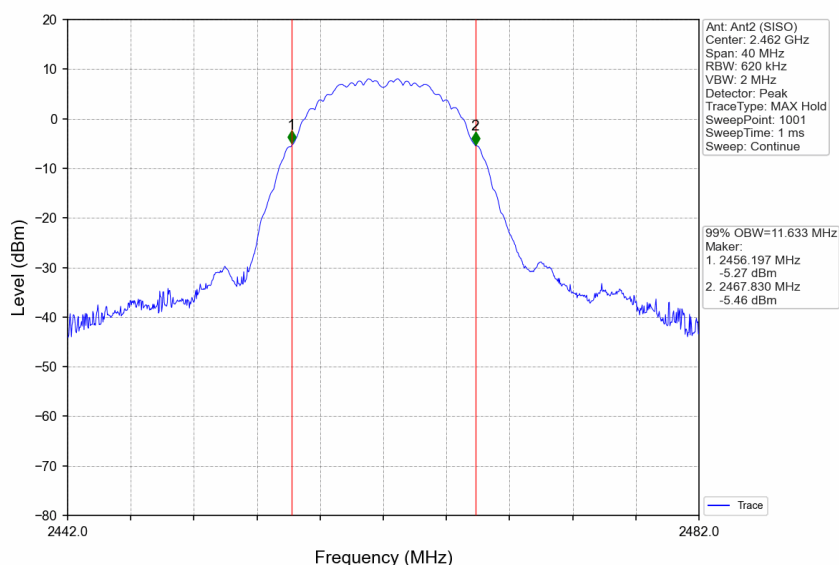
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802.11b HCH 2462MHz Ant1 (SISO) NTN



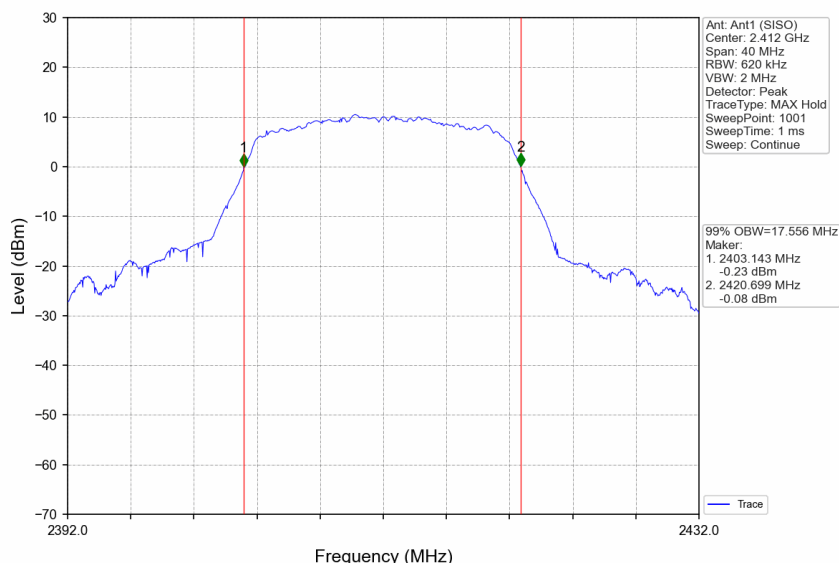
802.11b HCH 2462MHz Ant2 (SISO) NTN



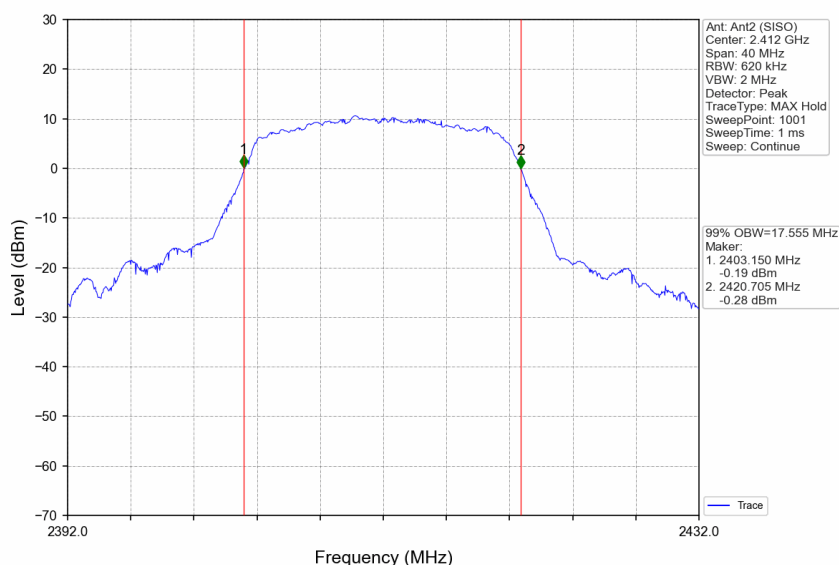
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



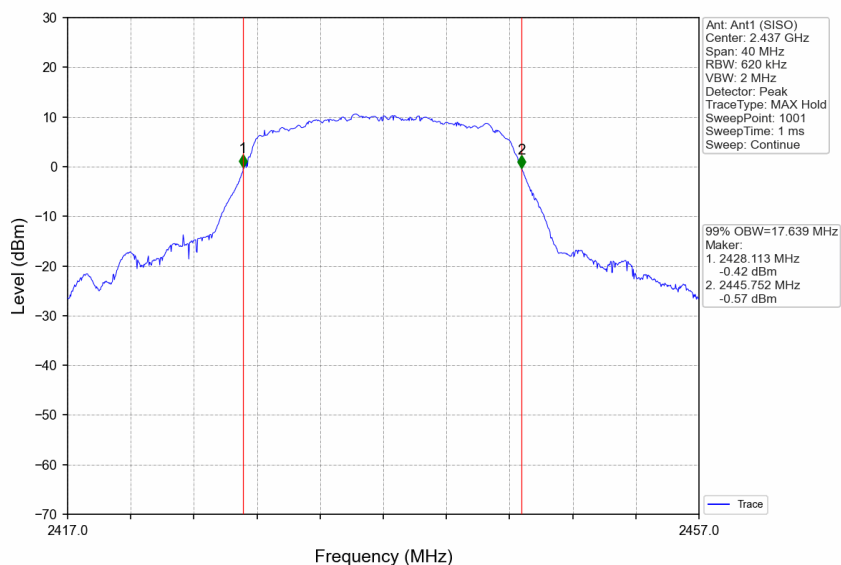
802.11g LCH 2412MHz Ant2 (SISO) NTNV



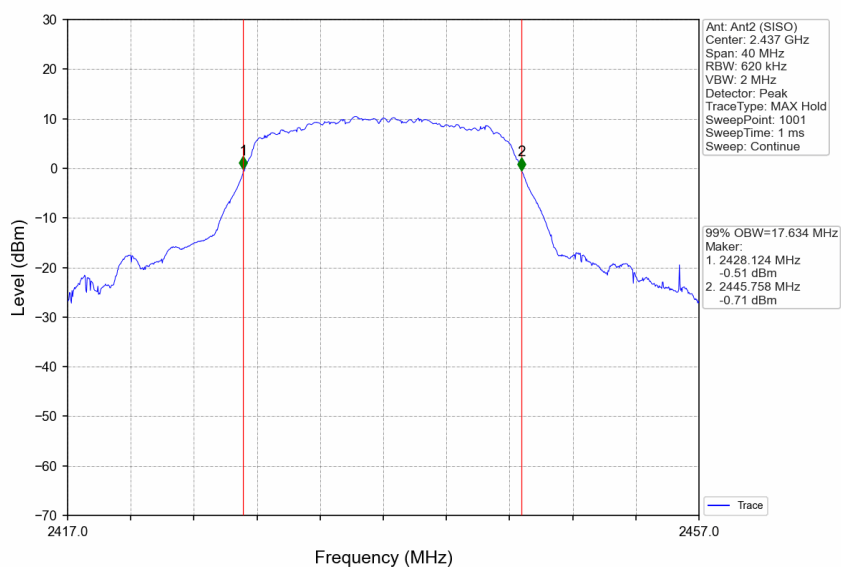
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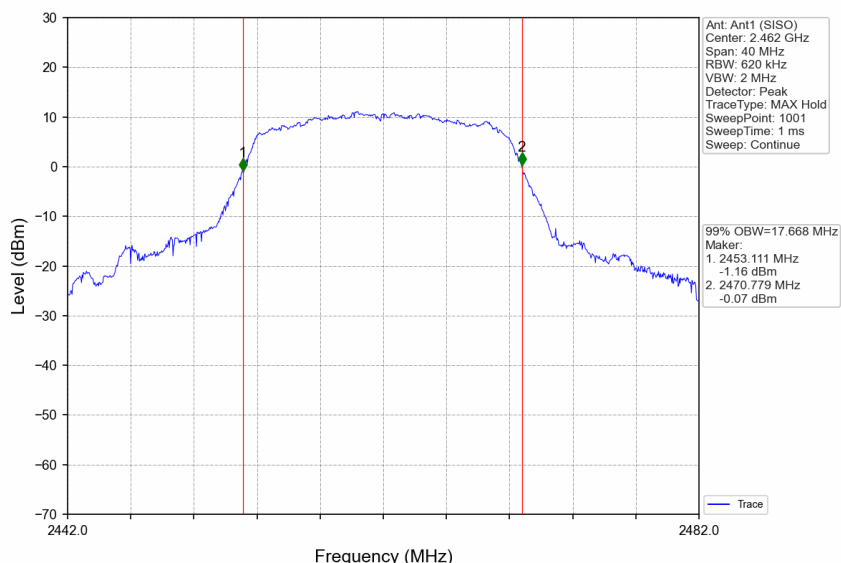
802.11g MCH 2437MHz Ant1 (SISO) NTN



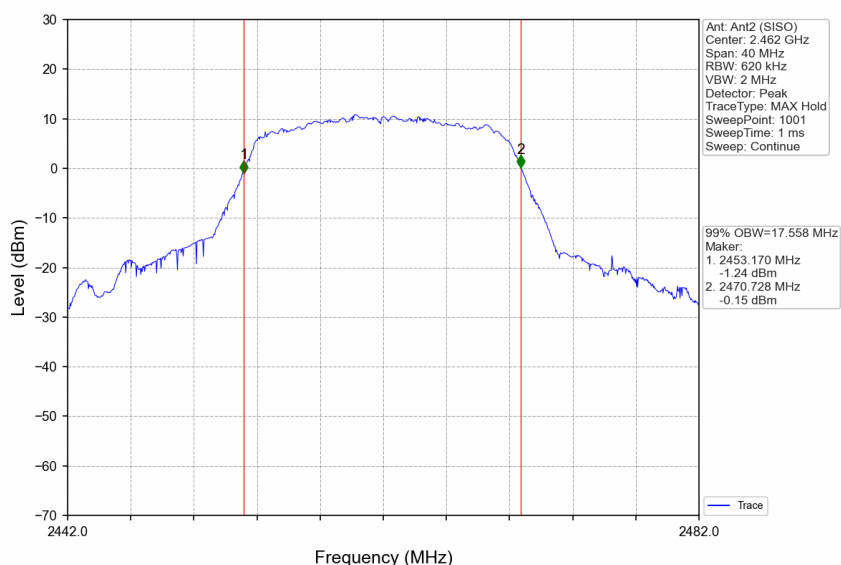
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802.11g HCH 2462MHz Ant1 (SISO) NTN



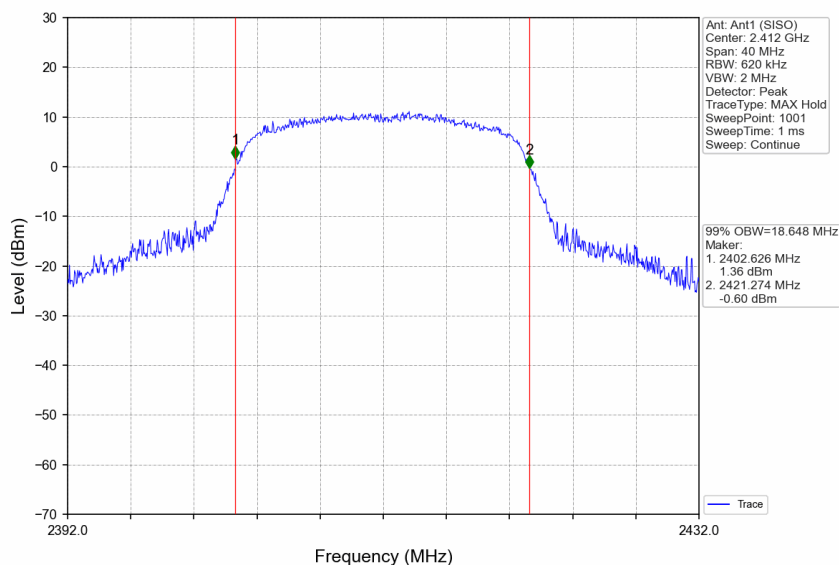
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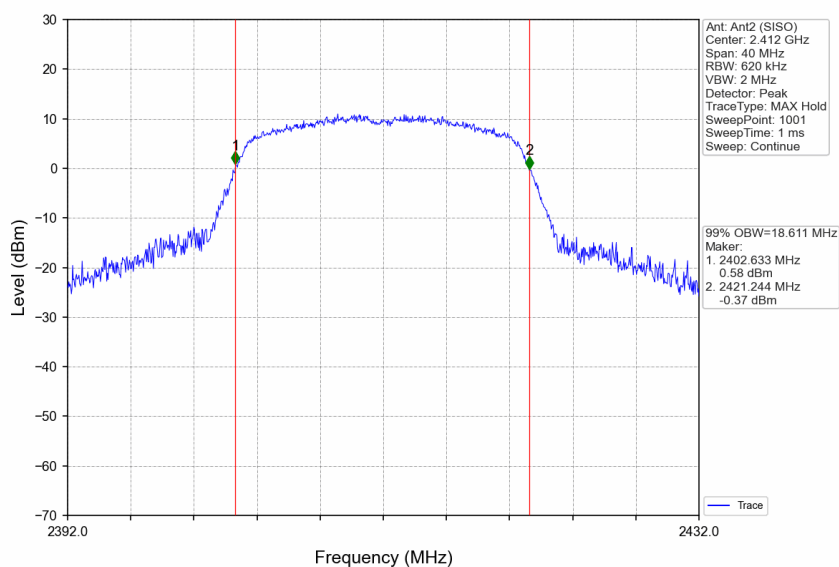
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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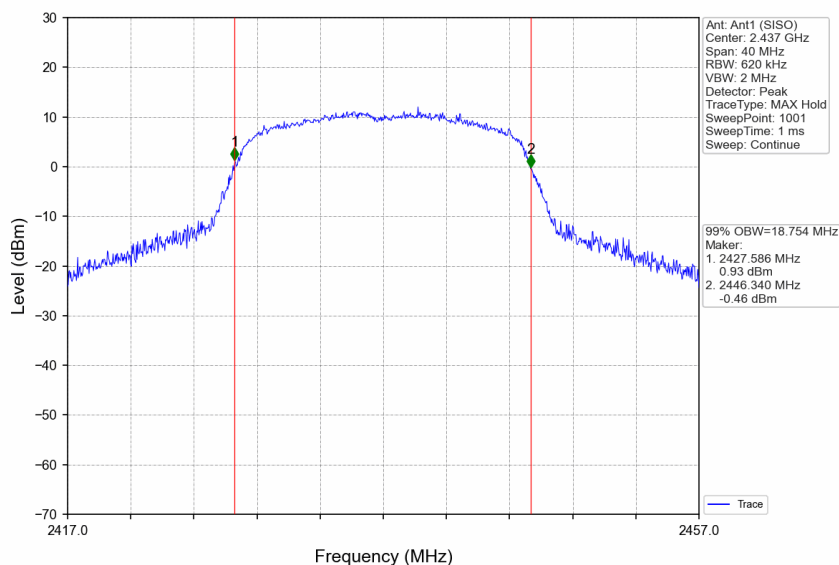
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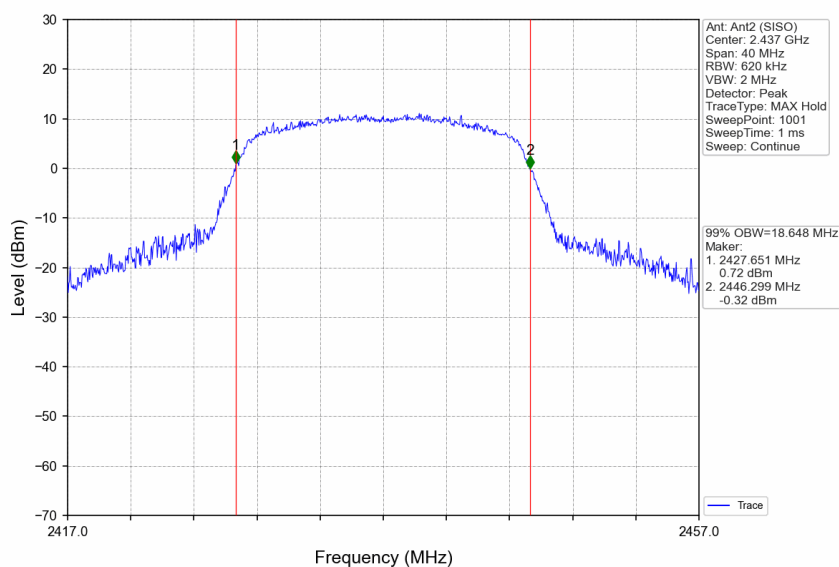
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO) NTN



802.11n(HT20)\_MCH\_2437MHz\_Ant2 (SISO) NTN



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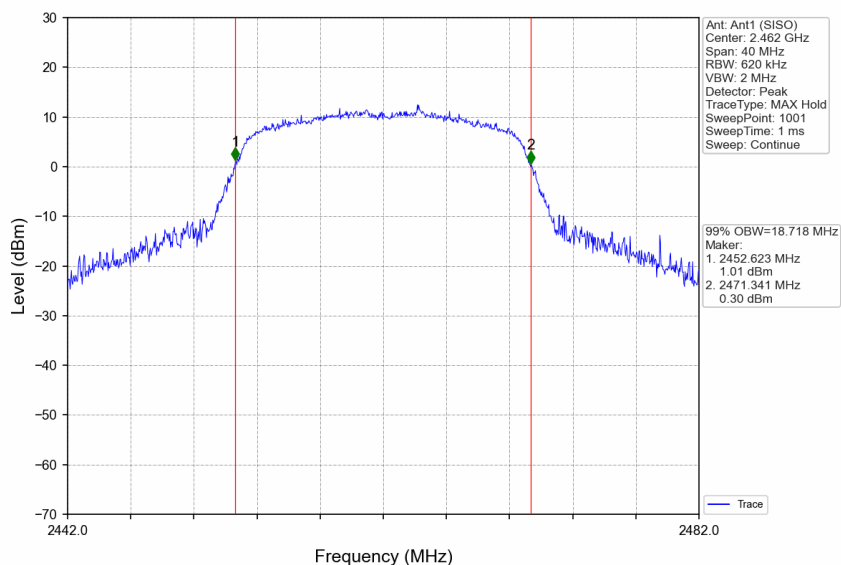
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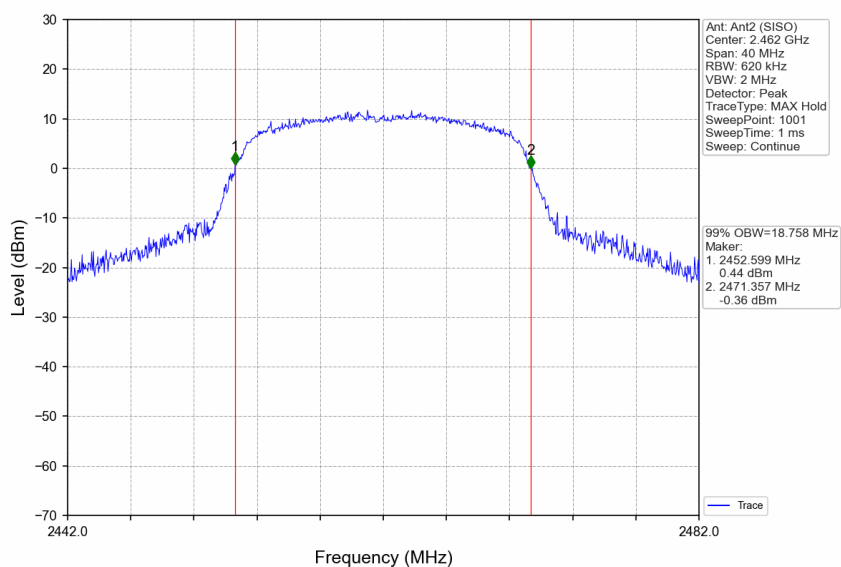
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



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## 2.2 6dB BW

## 2.2.1 Test Result

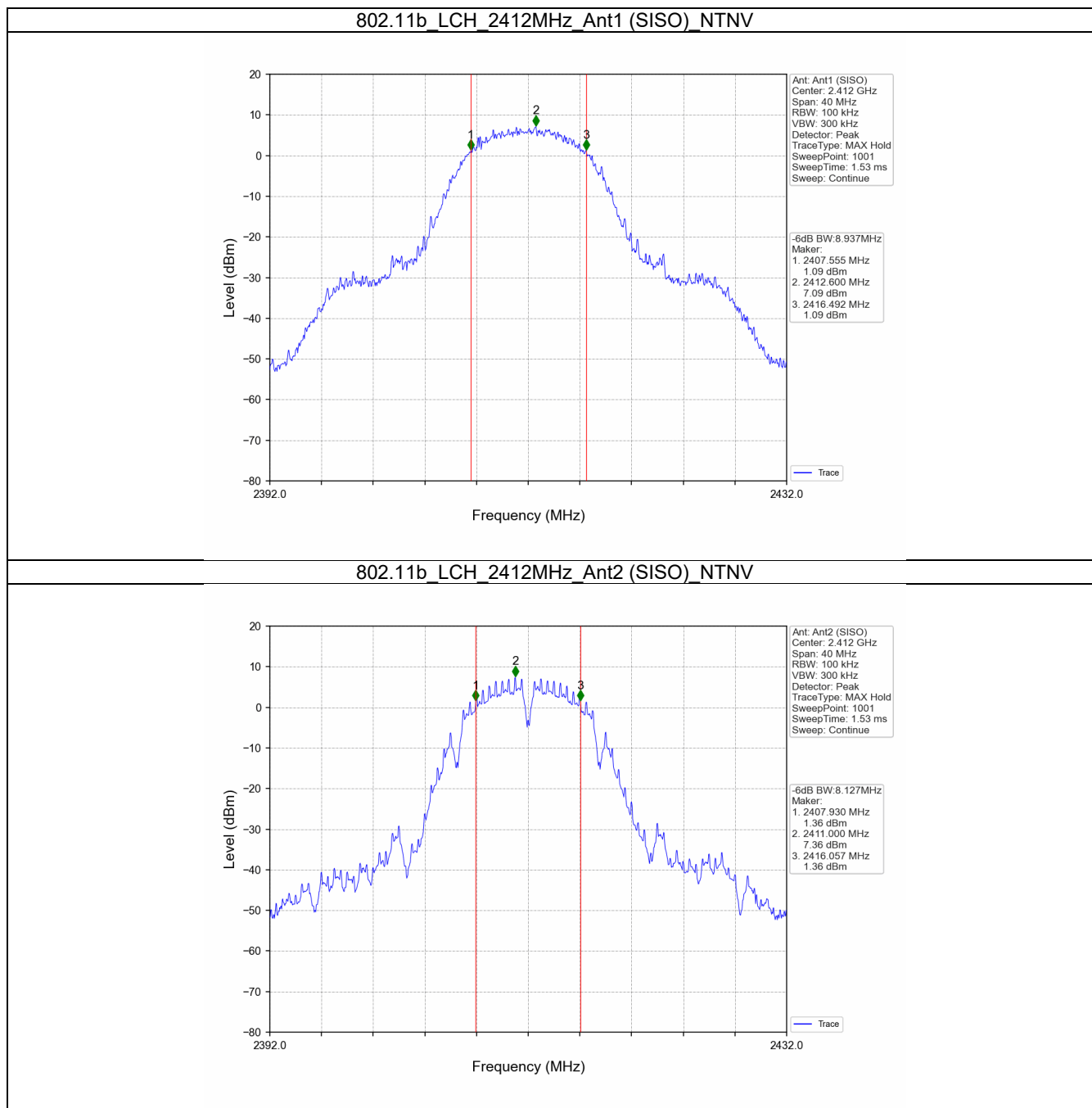
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.937	$\geq 0.5$	Pass
			2	8.127	$\geq 0.5$	Pass
		2437	1	8.593	$\geq 0.5$	Pass
			2	9.057	$\geq 0.5$	Pass
		2462	1	9.060	$\geq 0.5$	Pass
			2	8.593	$\geq 0.5$	Pass
802.11g	SISO	2412	1	15.483	$\geq 0.5$	Pass
			2	15.483	$\geq 0.5$	Pass
		2437	1	15.478	$\geq 0.5$	Pass
			2	15.783	$\geq 0.5$	Pass
		2462	1	15.476	$\geq 0.5$	Pass
			2	15.475	$\geq 0.5$	Pass
802.11n (HT20)	SISO	2412	1	15.513	$\geq 0.5$	Pass
			2	16.330	$\geq 0.5$	Pass
		2437	1	15.659	$\geq 0.5$	Pass
			2	15.831	$\geq 0.5$	Pass
		2462	1	15.770	$\geq 0.5$	Pass
			2	15.167	$\geq 0.5$	Pass



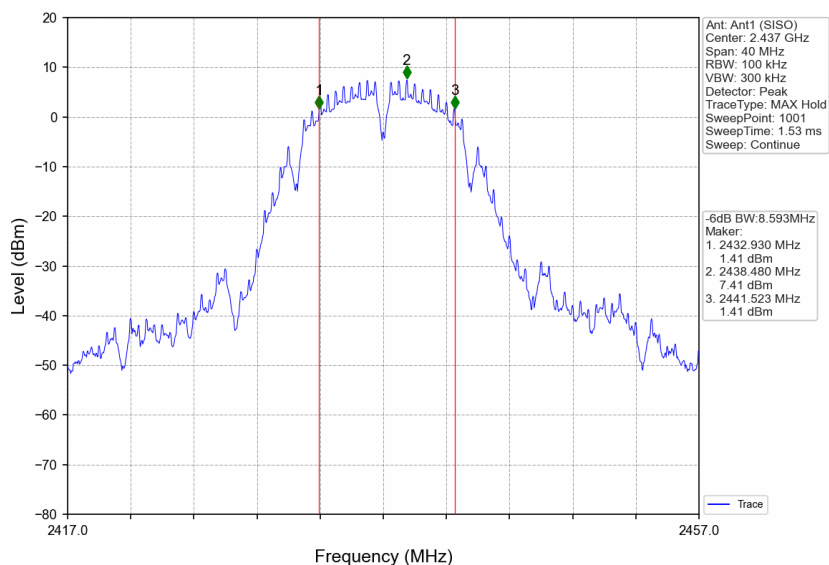
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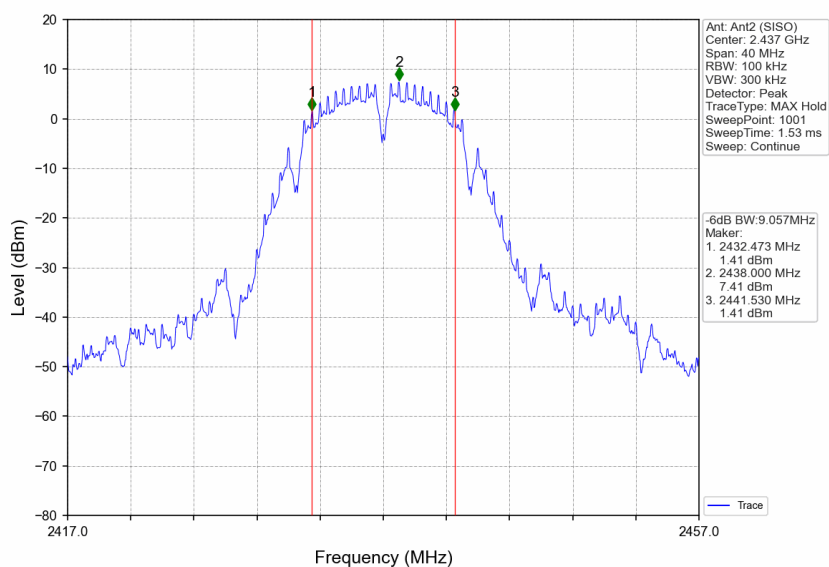
## 2.2.2 Test Graph



802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN

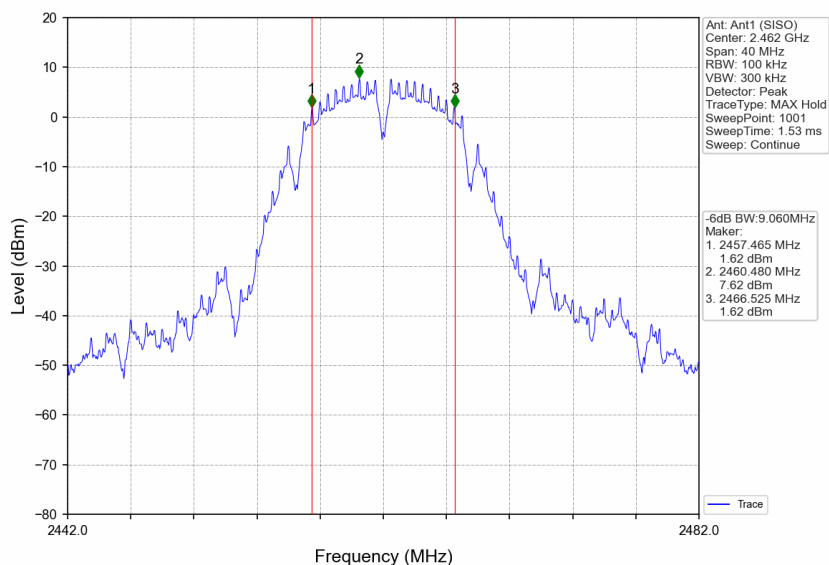


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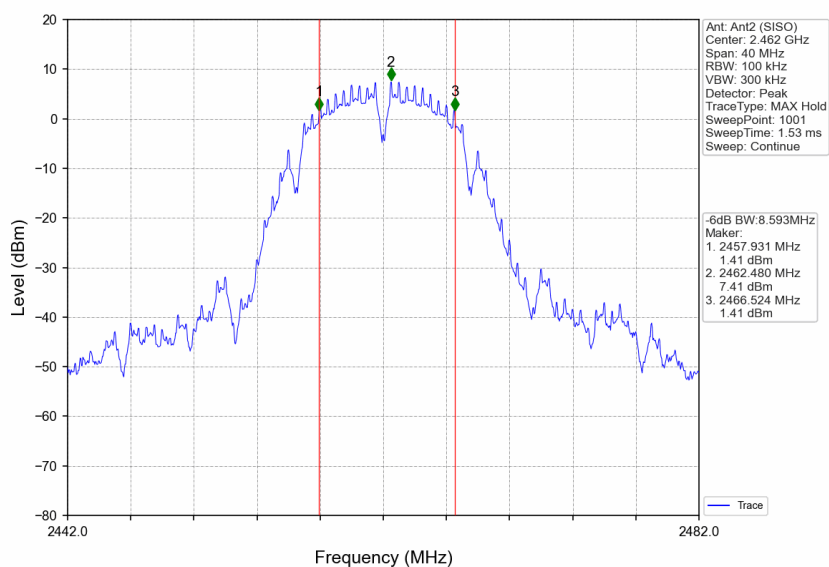
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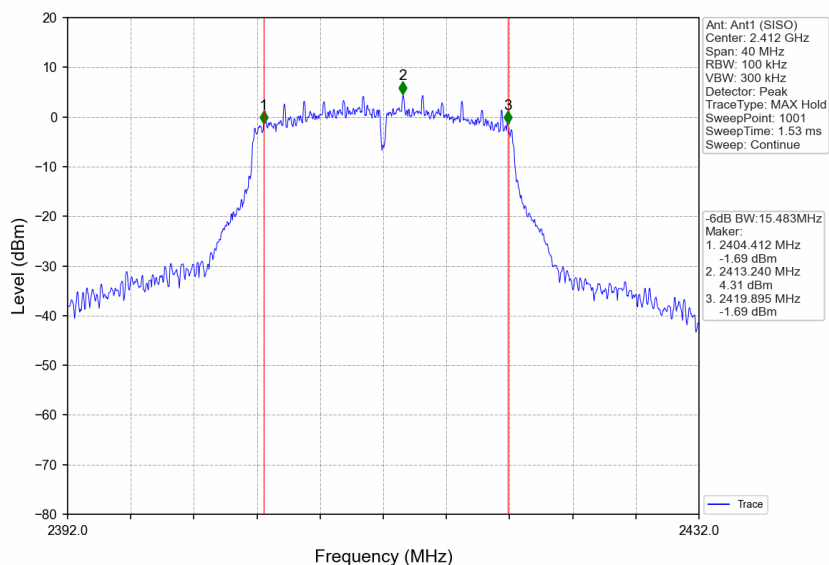
802.11b HCH 2462MHz Ant1 (SISO) NTN



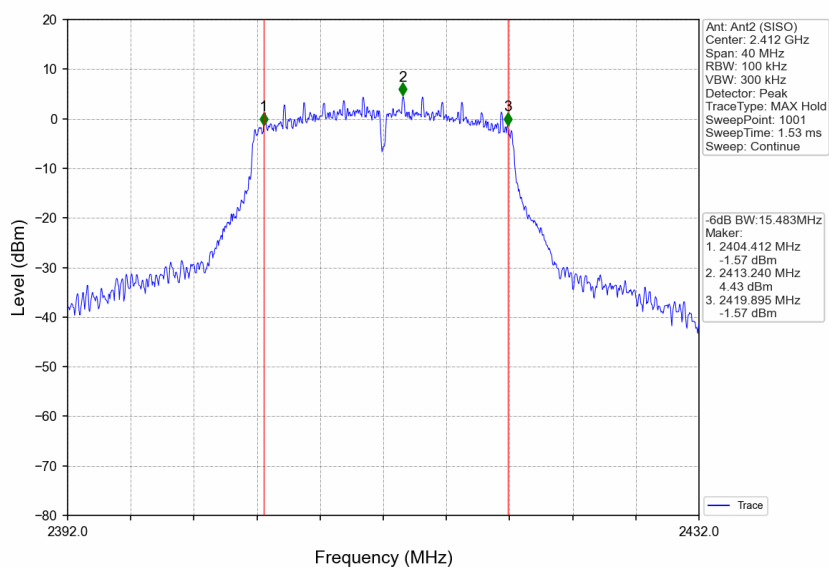
802.11b HCH 2462MHz Ant2 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTNV



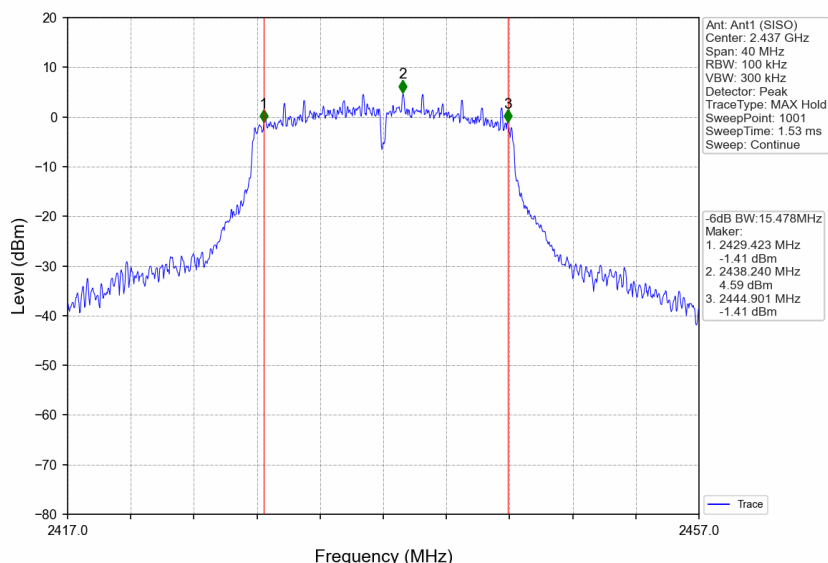
802.11g LCH 2412MHz Ant2 (SISO) NTNV



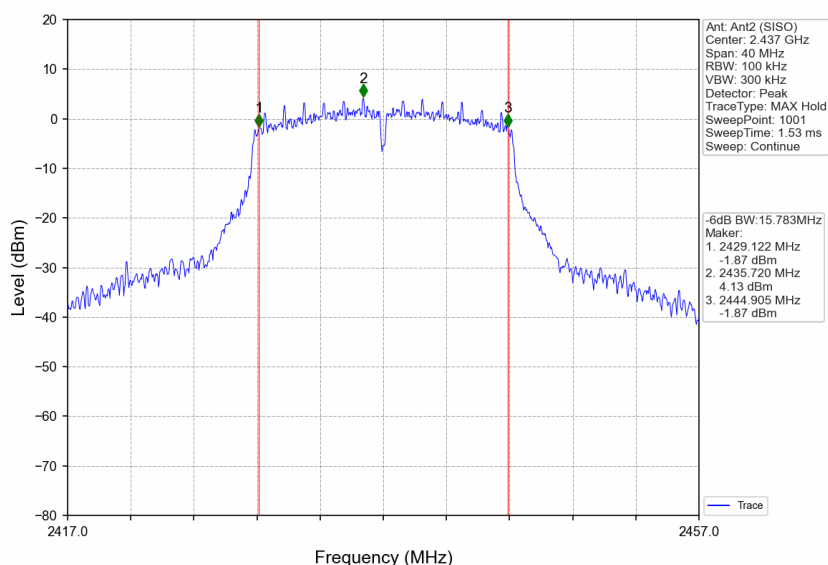
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802.11g MCH 2437MHz Ant1 (SISO) NTN



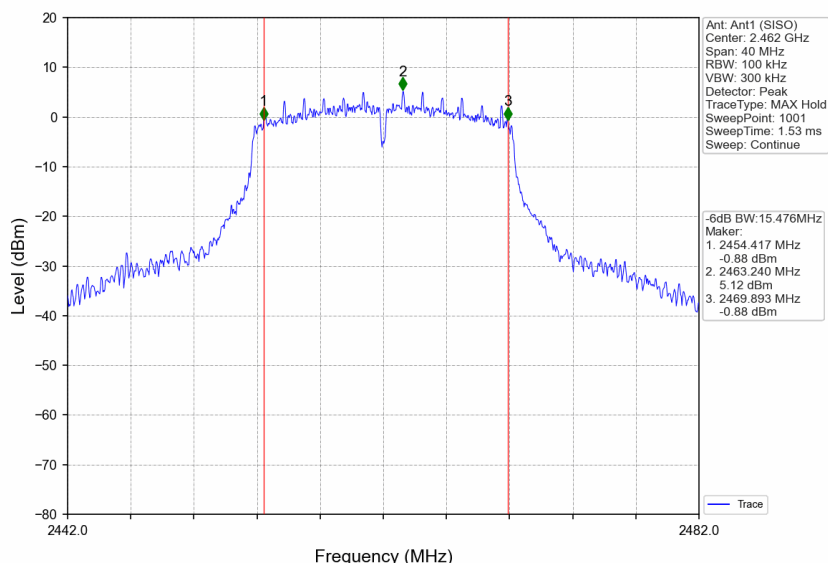
802.11g MCH 2437MHz Ant2 (SISO) NTN



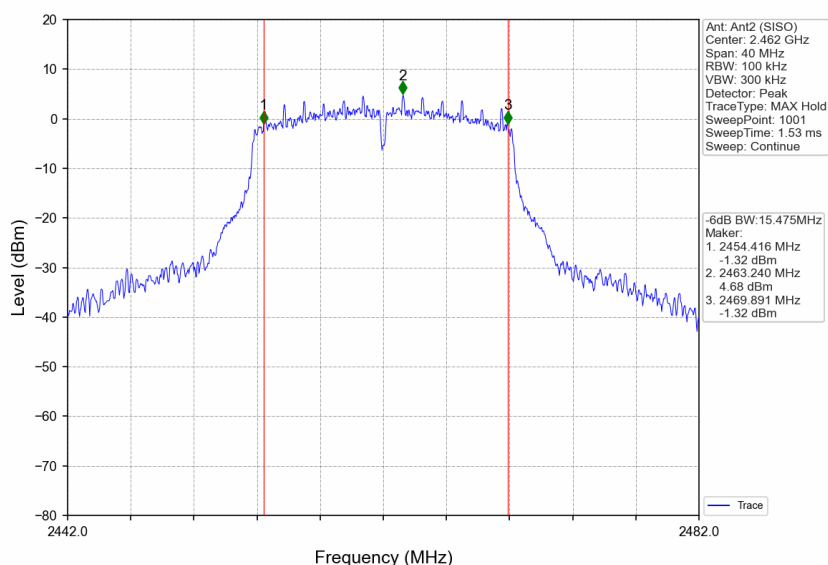
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802.11g HCH 2462MHz Ant1 (SISO) NTN



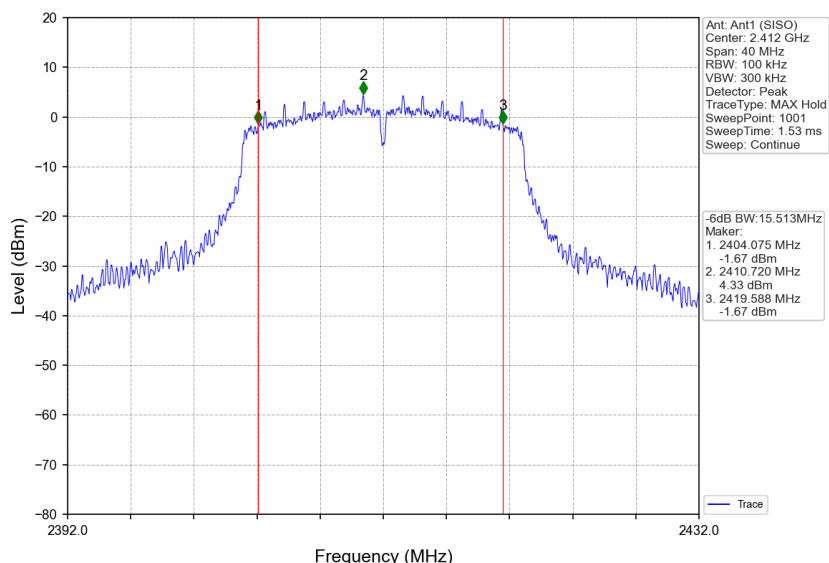
802.11g HCH 2462MHz Ant2 (SISO) NTN



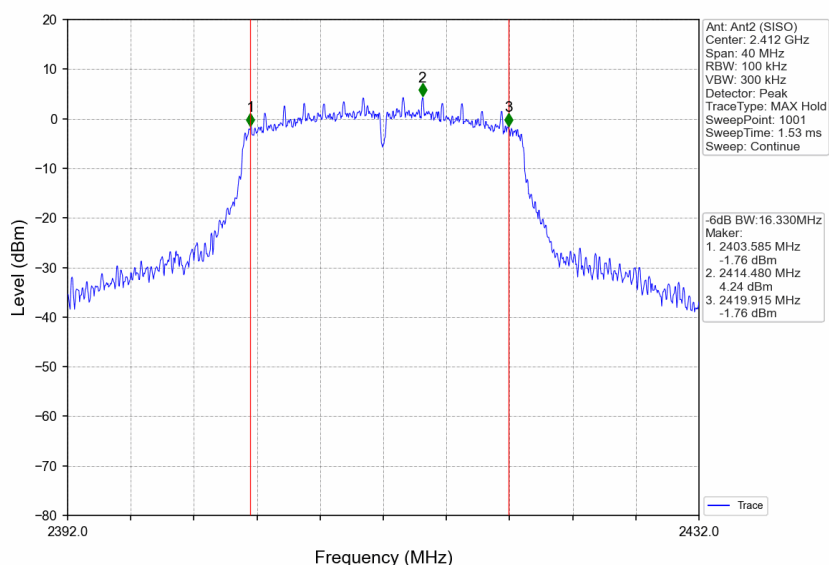
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

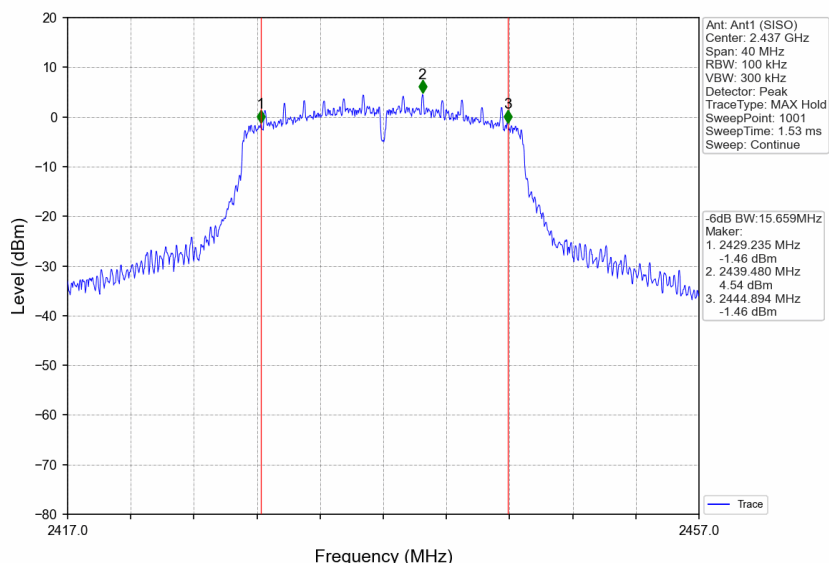


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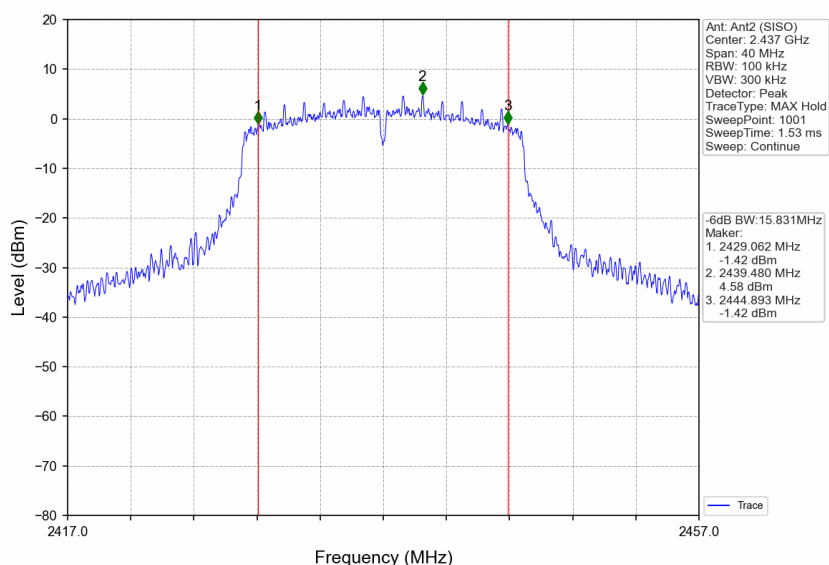
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO) NTN



802.11n(HT20)\_MCH\_2437MHz\_Ant2 (SISO) NTN



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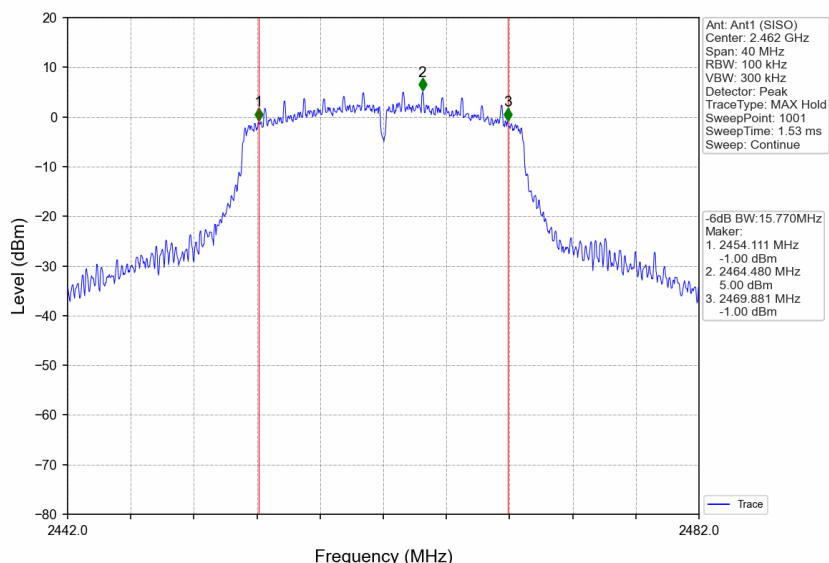
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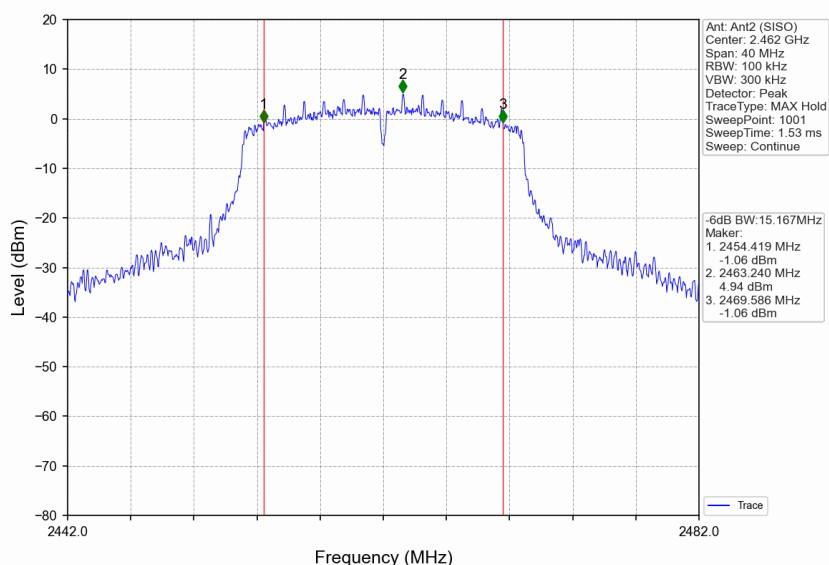
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



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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	Ant2	Limit	
802.11b	SISO	2412	15.83	15.82	<=30	Pass
		2437	15.88	15.82	<=30	Pass
		2462	16.04	15.50	<=30	Pass
802.11g	SISO	2412	15.34	15.44	<=30	Pass
		2437	15.56	15.45	<=30	Pass
		2462	15.95	15.69	<=30	Pass
802.11n (HT20)	SISO	2412	15.17	15.11	<=30	Pass
		2437	15.37	15.39	<=30	Pass
		2462	15.79	15.62	<=30	Pass

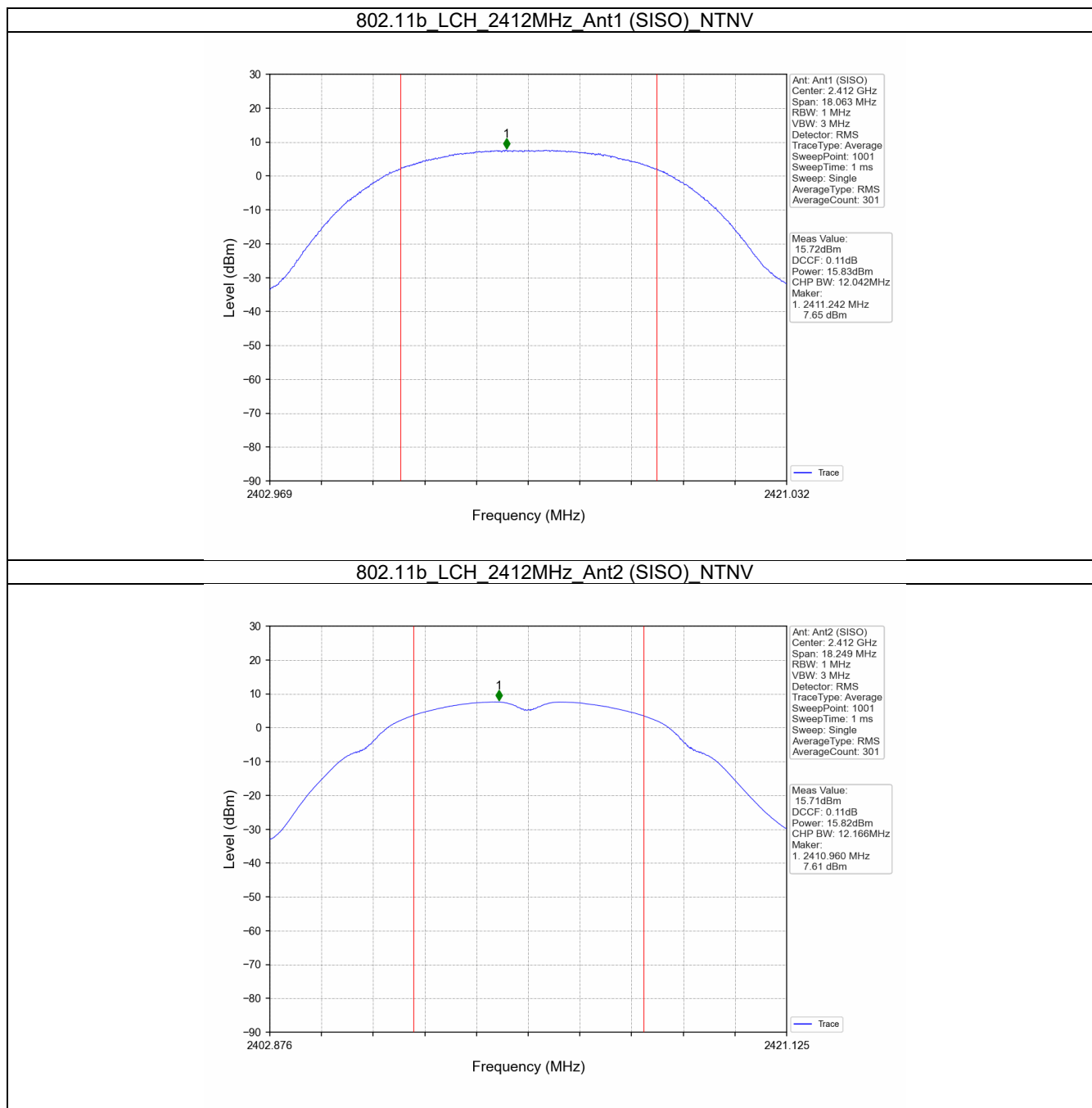
Note1: Antenna Gain: Ant1: 1.58dBi; Ant2: 3.42dBi;



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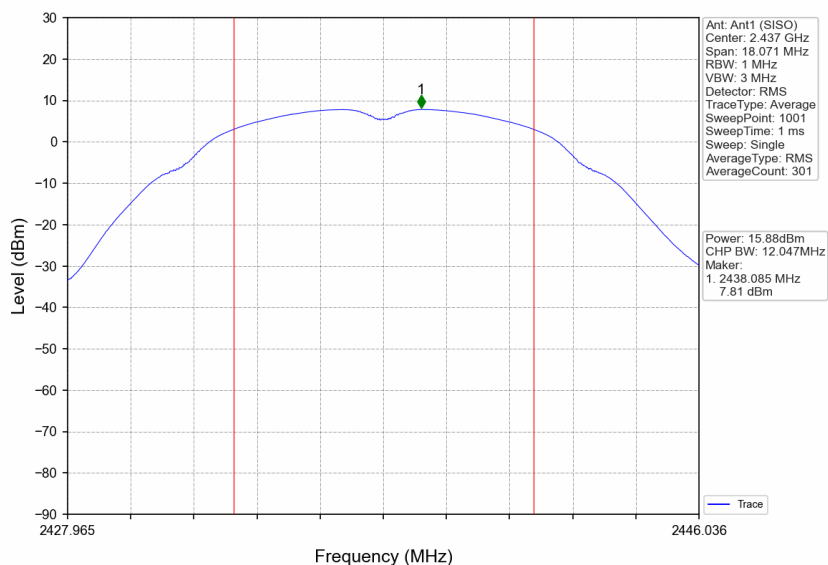
### 3.1.2 Test Graph



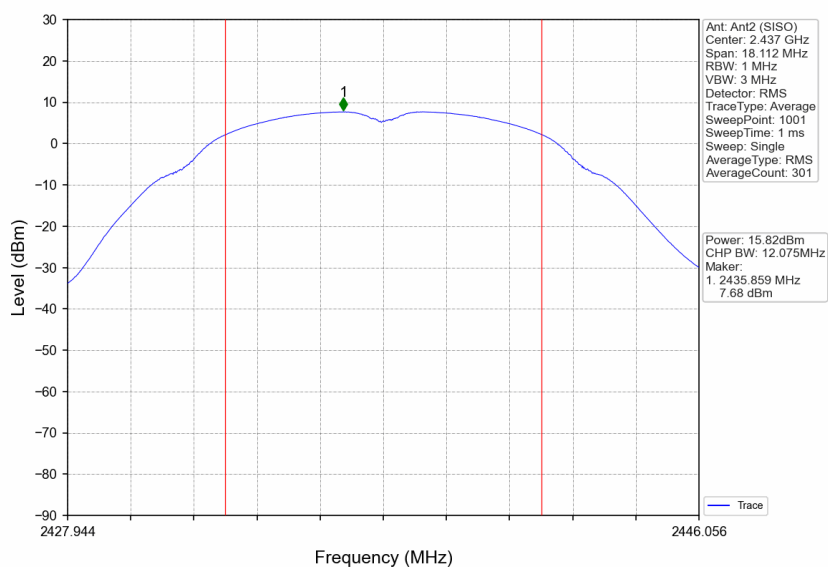
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN

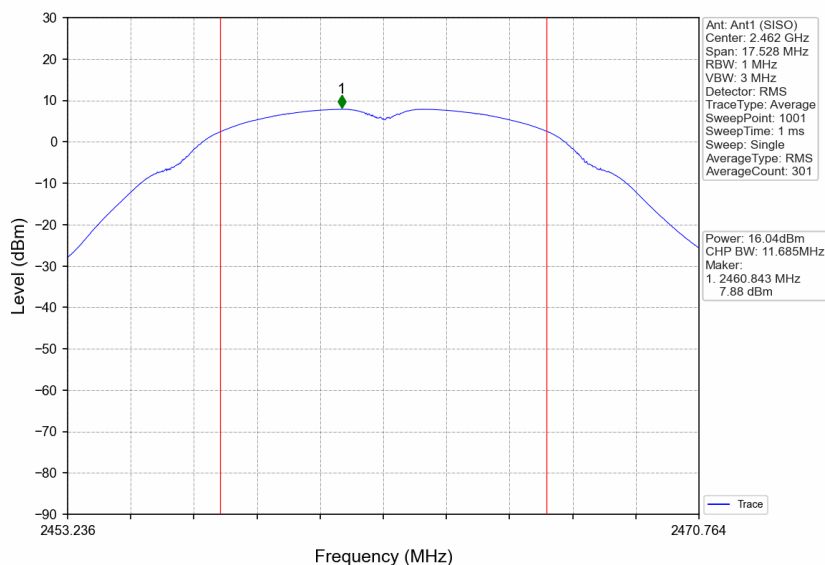


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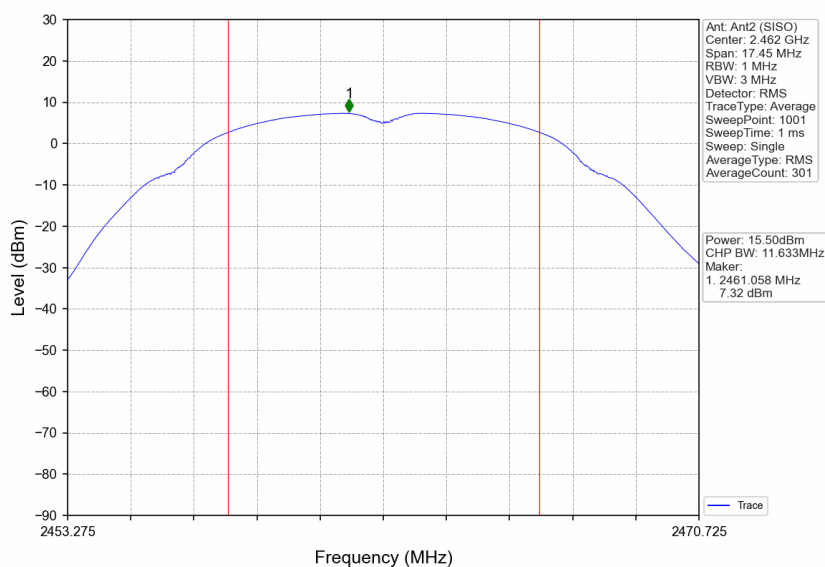
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802.11b HCH 2462MHz Ant1 (SISO) NTN

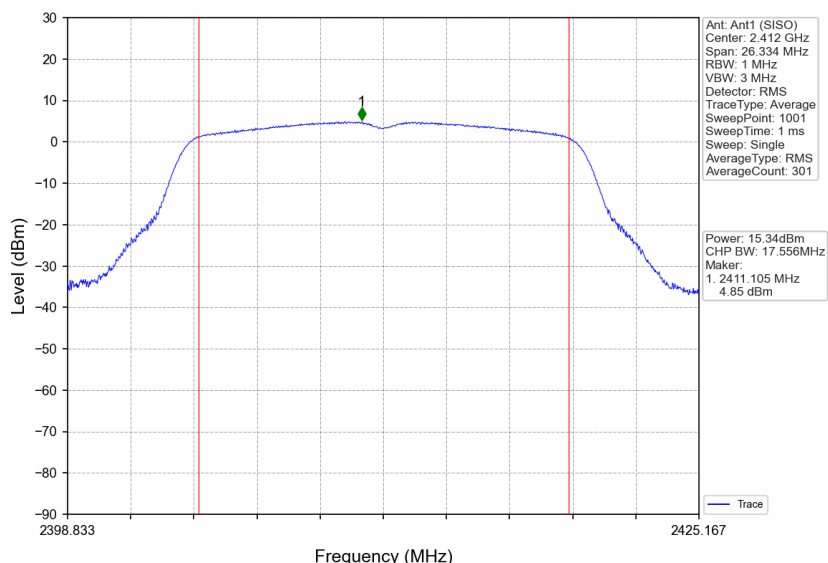
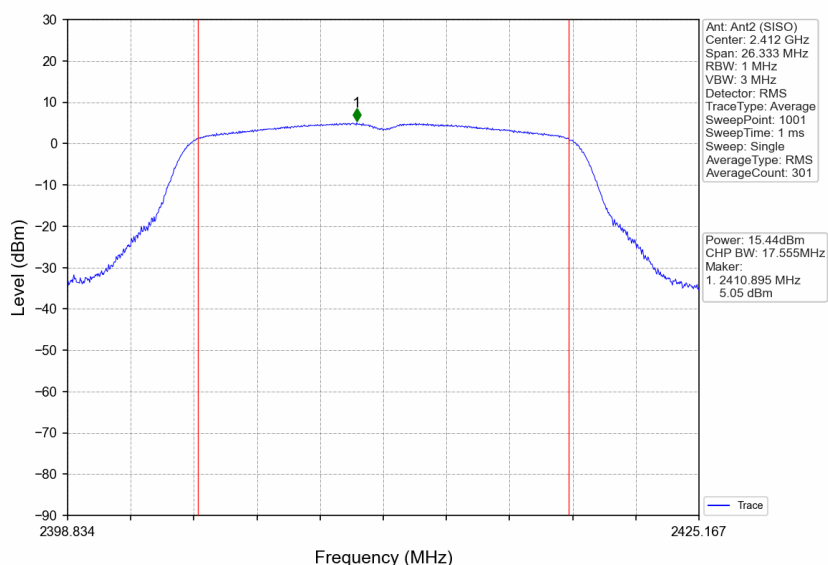


802.11b HCH 2462MHz Ant2 (SISO) NTN



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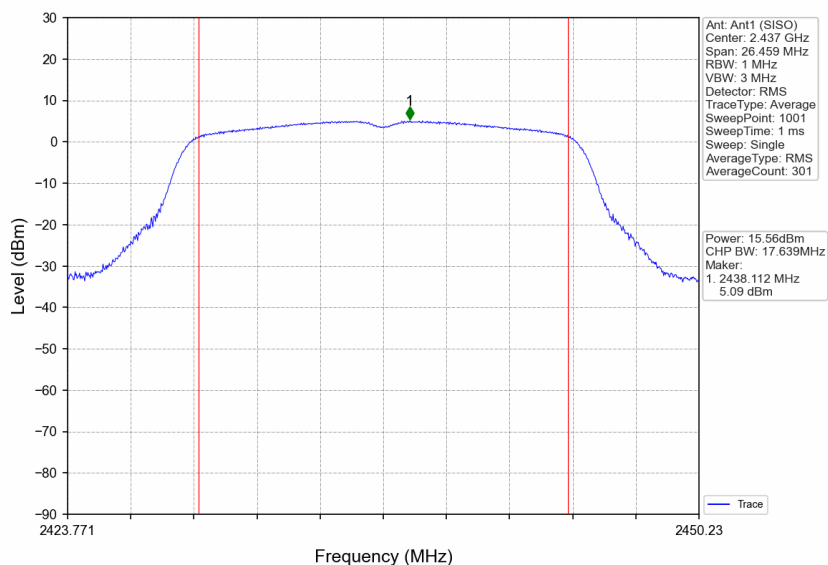
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**802.11g LCH 2412MHz Ant1 (SISO) NTNV**

**802.11g LCH 2412MHz Ant2 (SISO) NTNV**


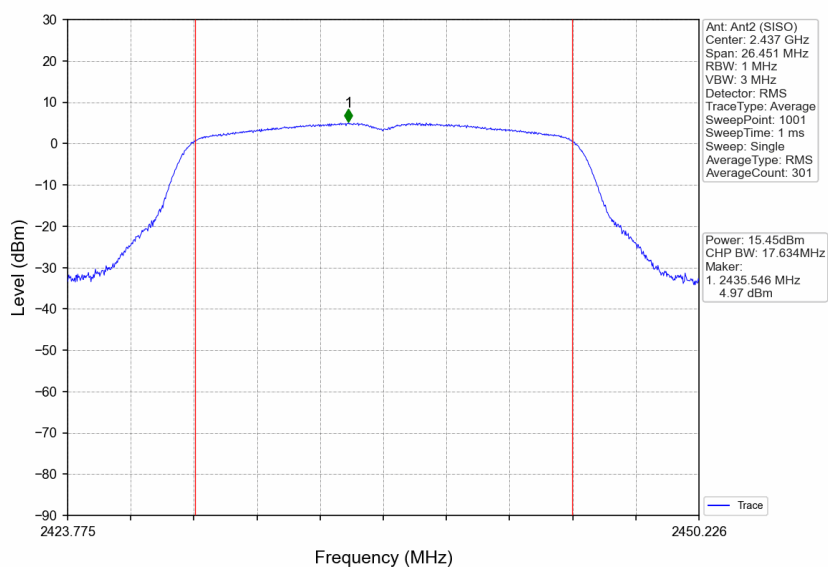
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802.11g MCH 2437MHz Ant1 (SISO) NTN



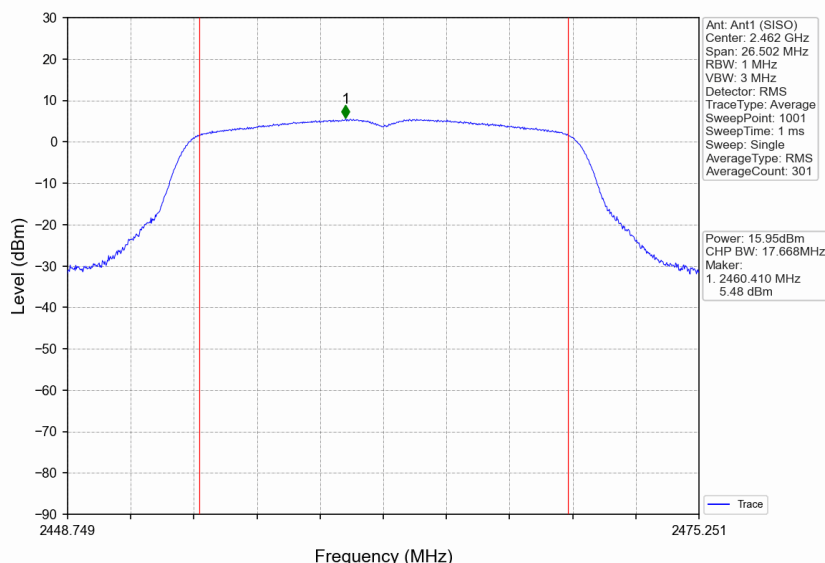
802.11g MCH 2437MHz Ant2 (SISO) NTN



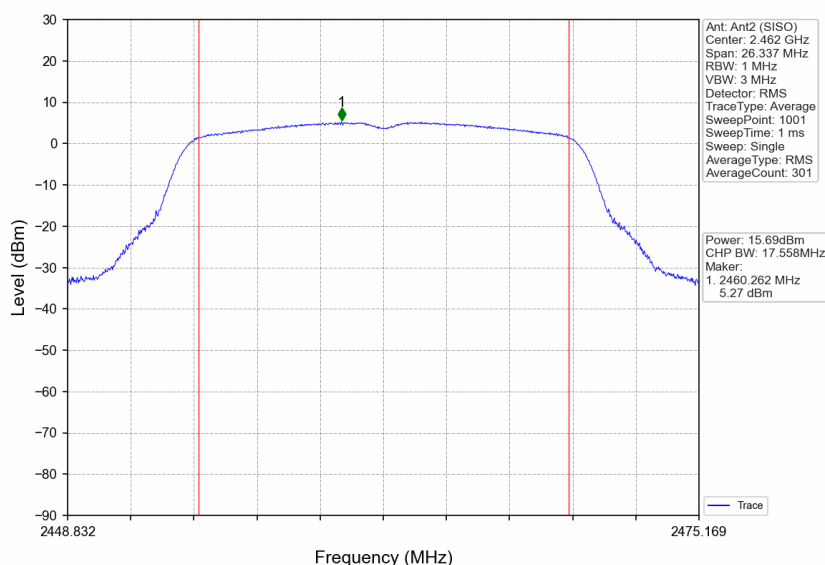
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802.11g HCH 2462MHz Ant1 (SISO) NTN



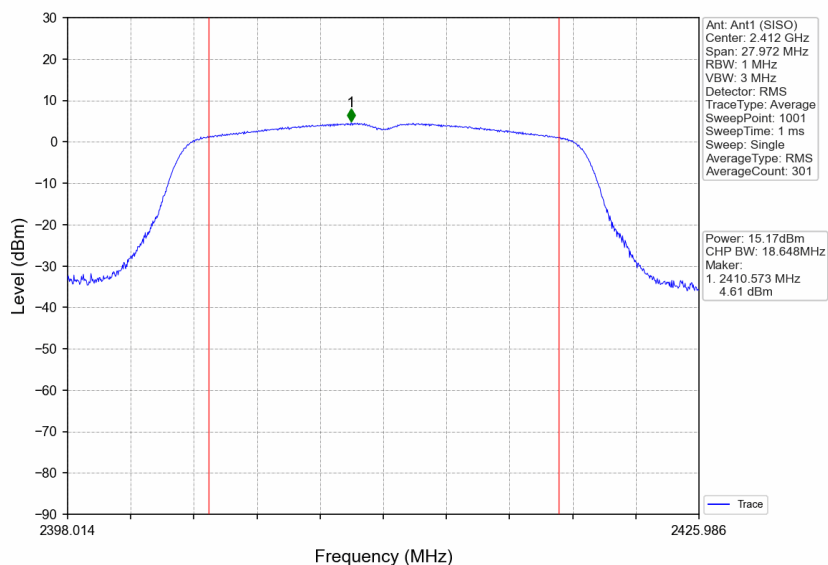
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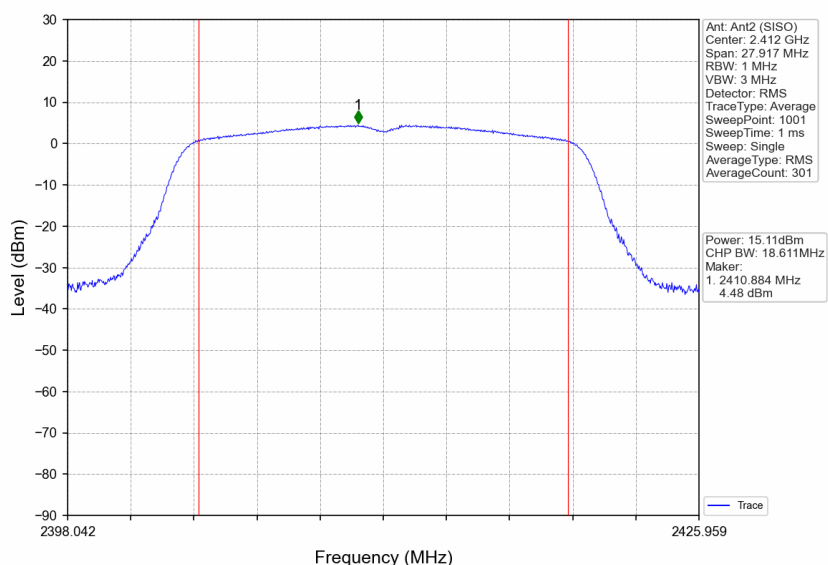
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

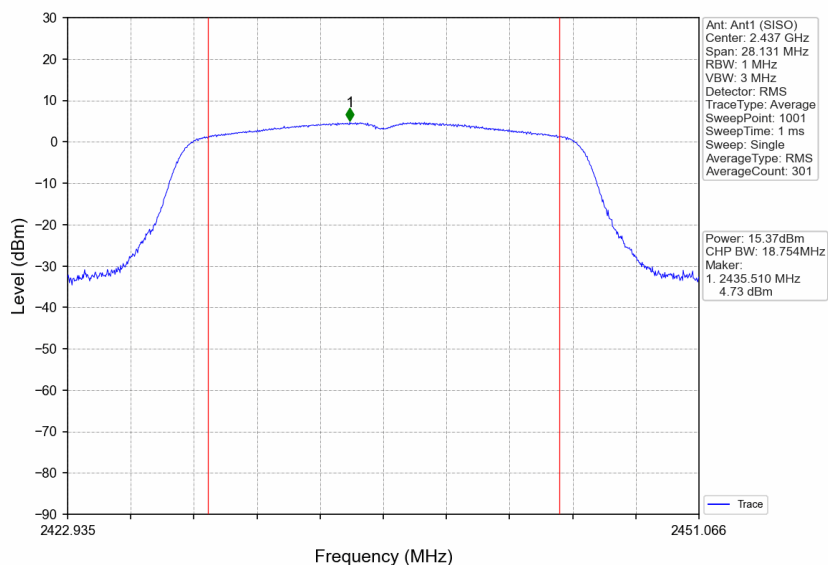


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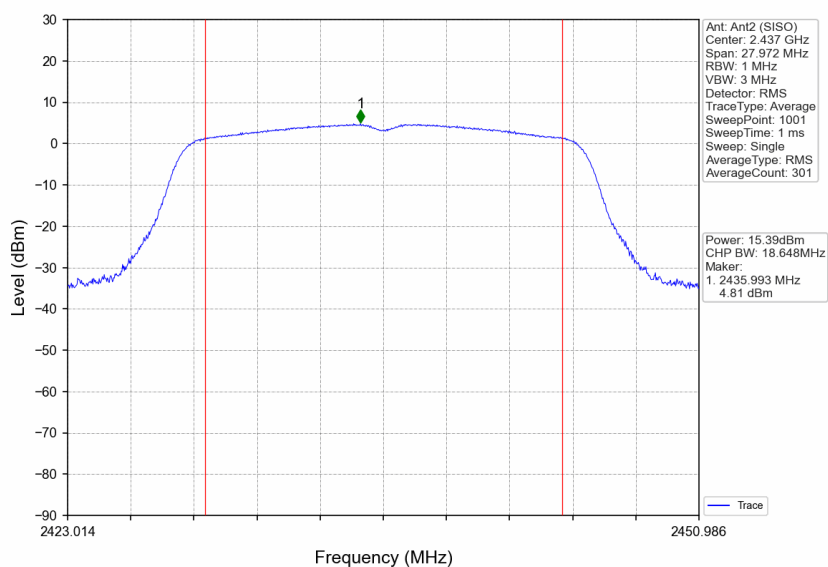
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO) NTN



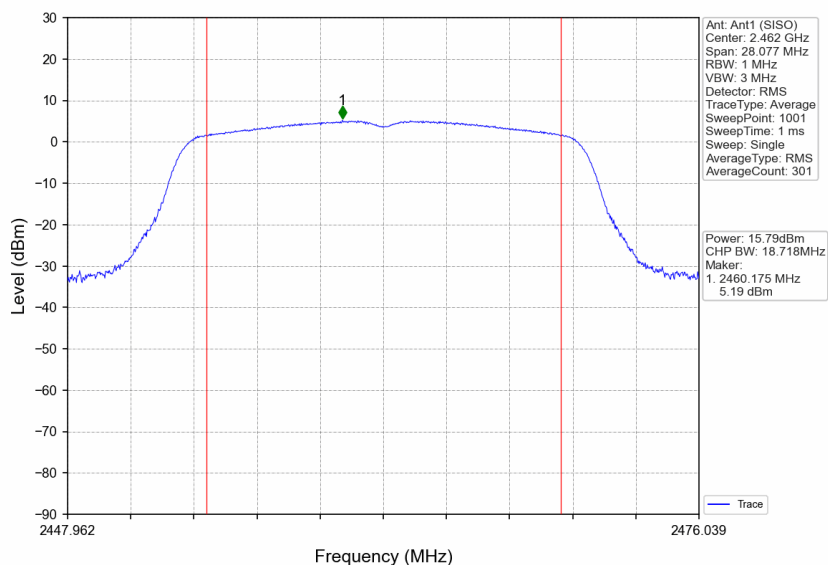
802.11n(HT20)\_MCH\_2437MHz\_Ant2 (SISO) NTN



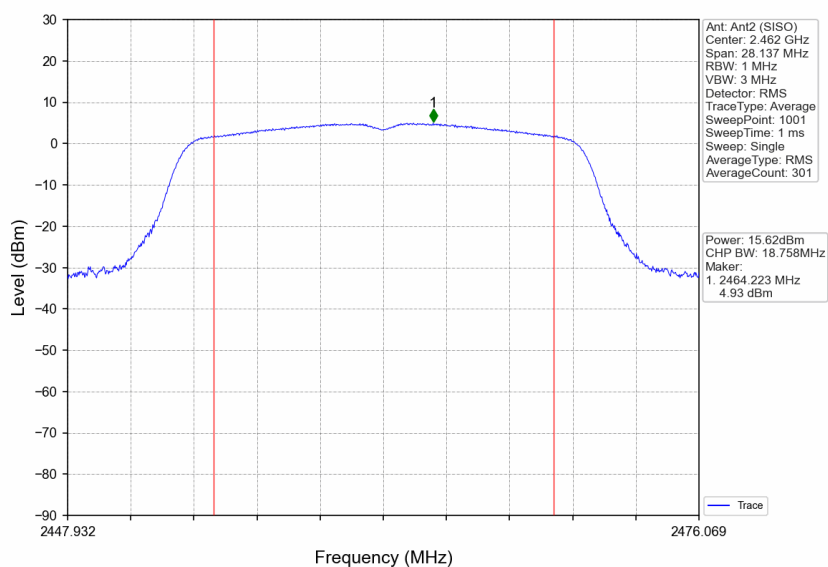
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



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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	Ant2	Limit	
802.11b	SISO	2412	-8.05	-6.59	<=8	Pass
		2437	-4.97	-6.35	<=8	Pass
		2462	-5.48	-6.99	<=8	Pass
802.11g	SISO	2412	-9.76	-9.60	<=8	Pass
		2437	-9.50	-9.22	<=8	Pass
		2462	-9.14	-9.47	<=8	Pass
802.11n (HT20)	SISO	2412	-9.97	-10.22	<=8	Pass
		2437	-9.31	-10.04	<=8	Pass
		2462	-8.78	-9.23	<=8	Pass

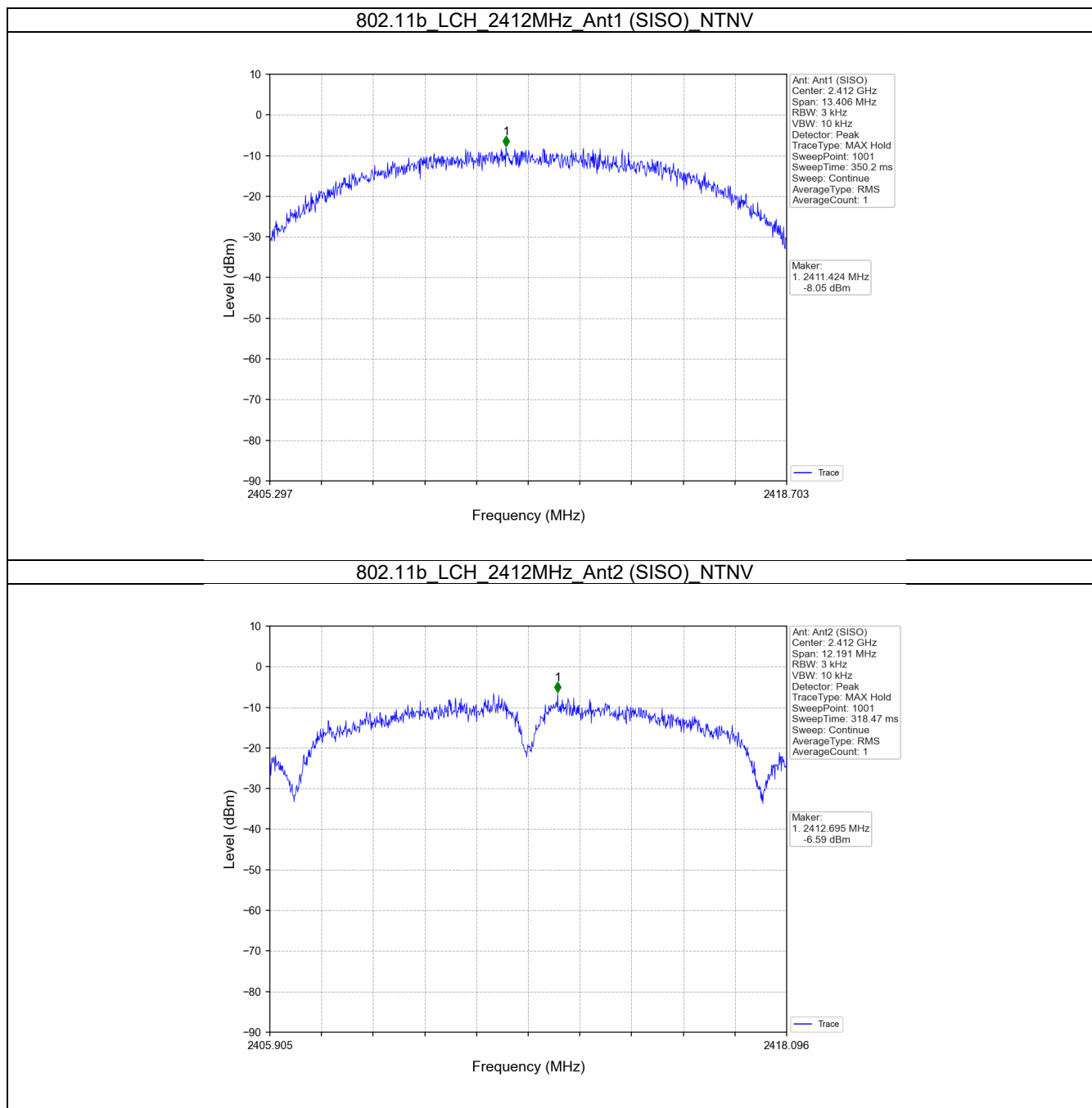
Note1: Antenna Gain: Ant1: 1.58dBi; Ant2: 3.42dBi;



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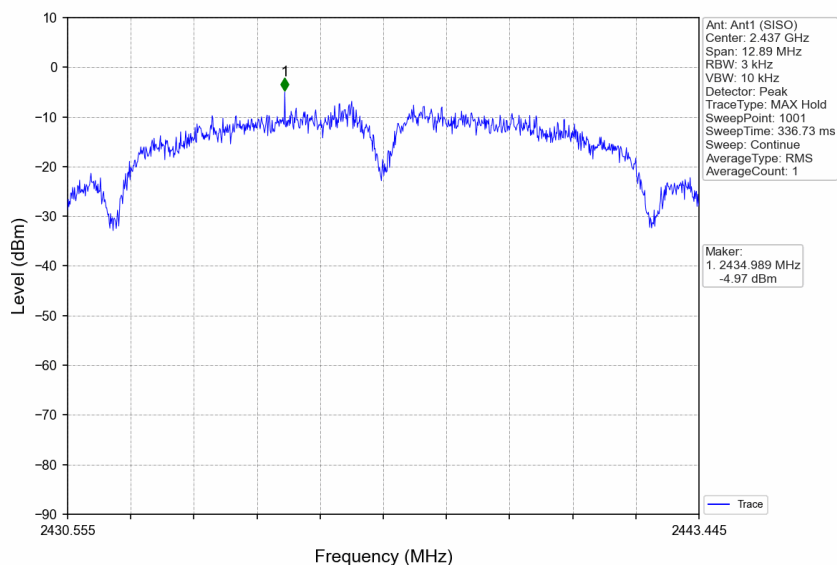
## 4.1.2 Test Graph



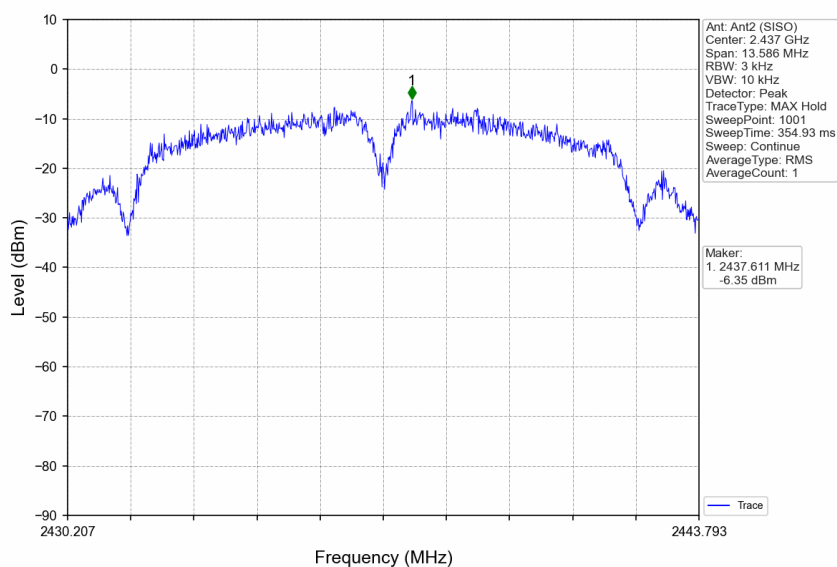
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## 802.11b MCH 2437MHz Ant1 (SISO) NTN



## 802.11b MCH 2437MHz Ant2 (SISO) NTN

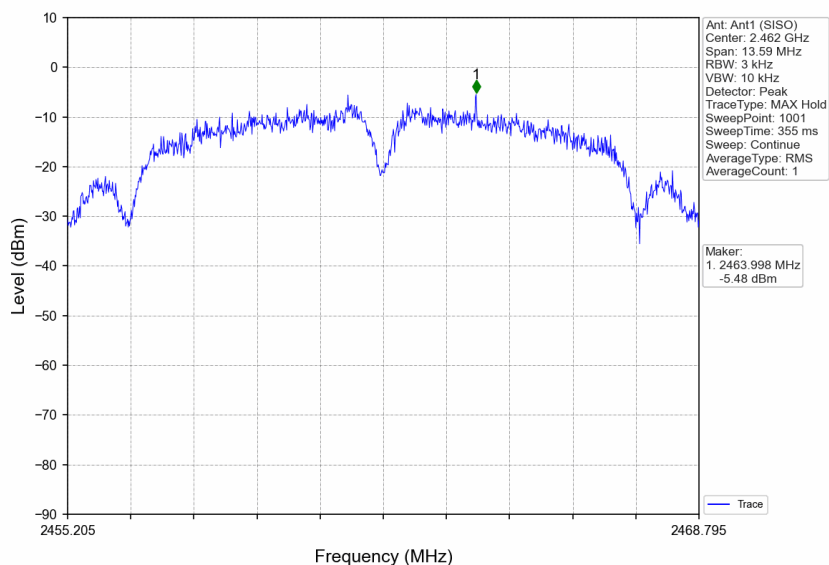


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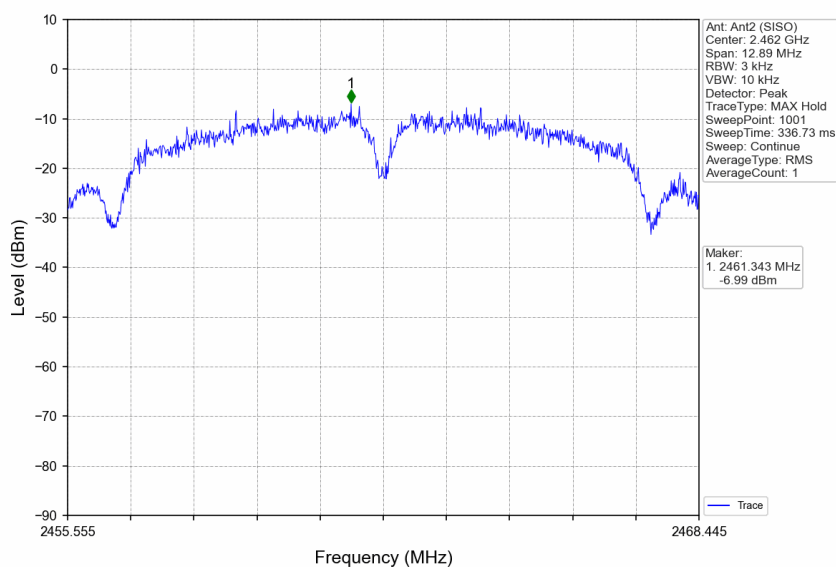
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11b HCH 2462MHz Ant2 (SISO) NTN



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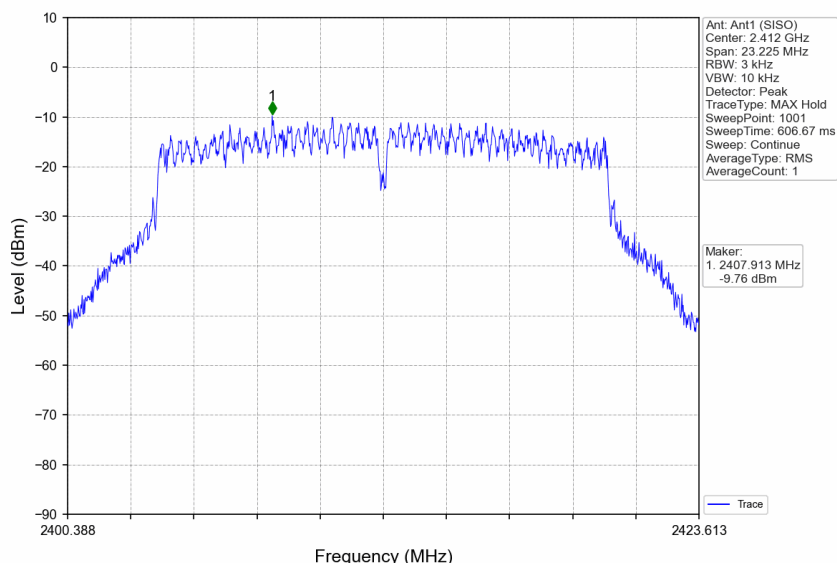
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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center EMC Lab

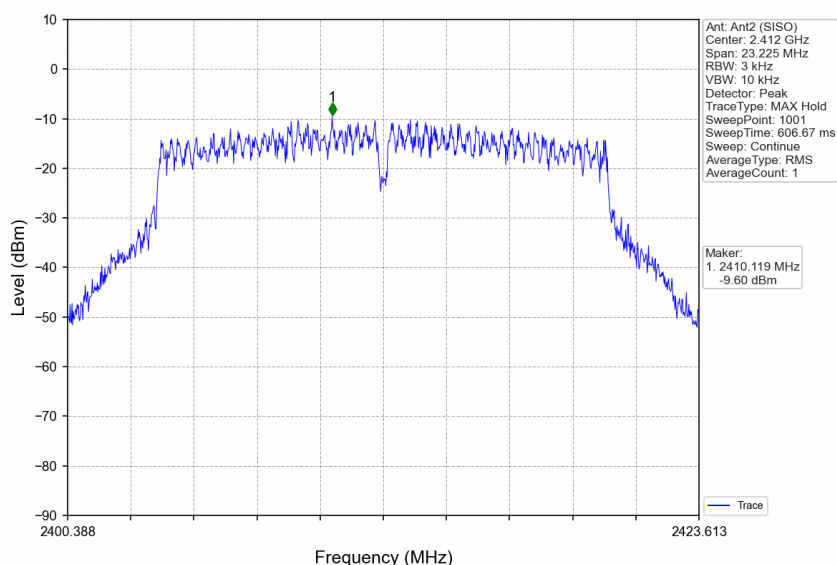
NO. 588 West Jindu Road, Songjiang District, Shanghai, China 201612  
中国·上海·松江区金都西路588号 邮编: 201612

t(86-21) 61915666 f(86-21) 61915678 www.sgs.com.cn  
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



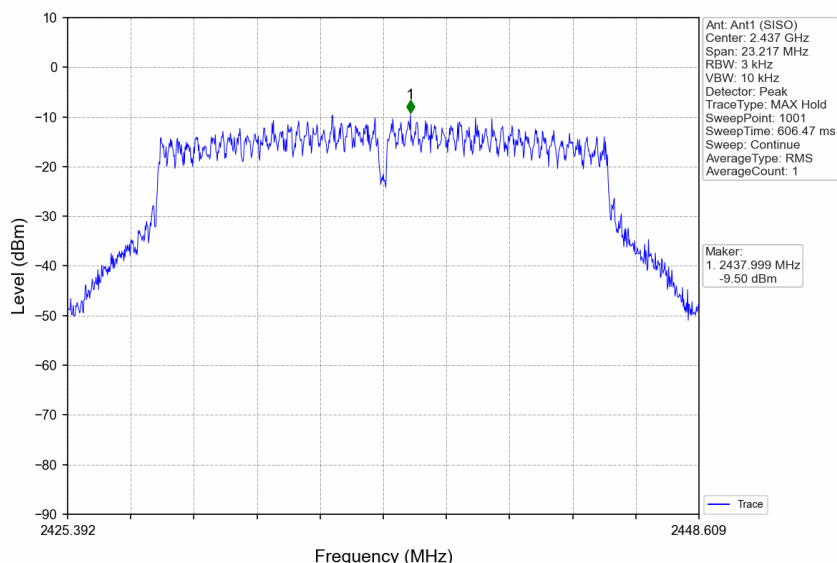
802.11g LCH 2412MHz Ant2 (SISO) NTNV



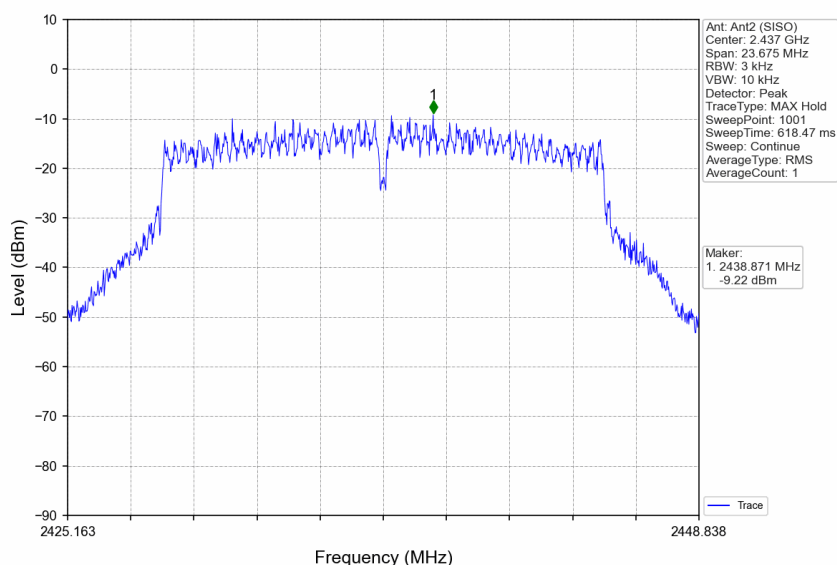
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802.11g MCH 2437MHz Ant1 (SISO) NTN



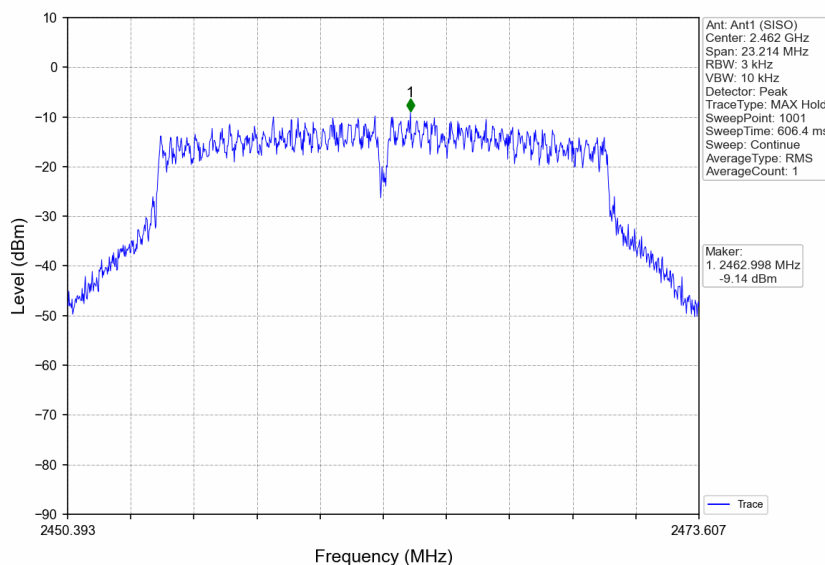
802.11g MCH 2437MHz Ant2 (SISO) NTN



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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



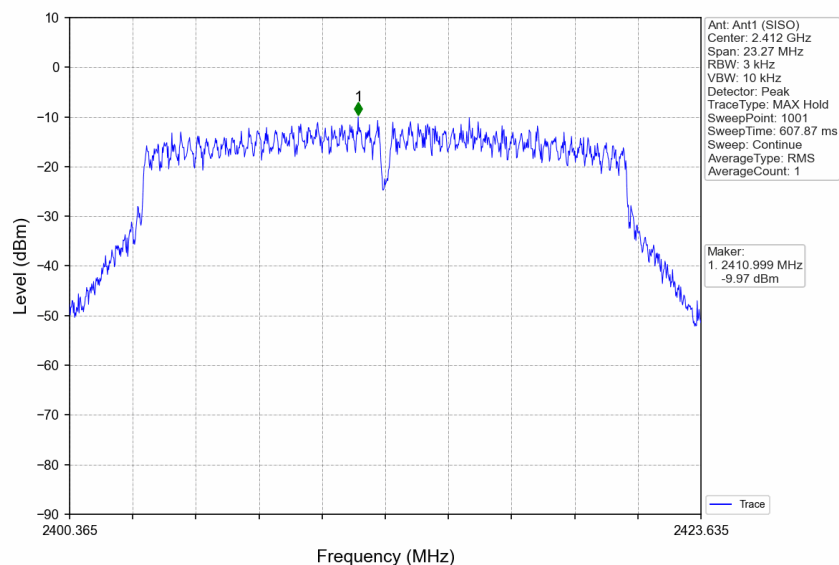
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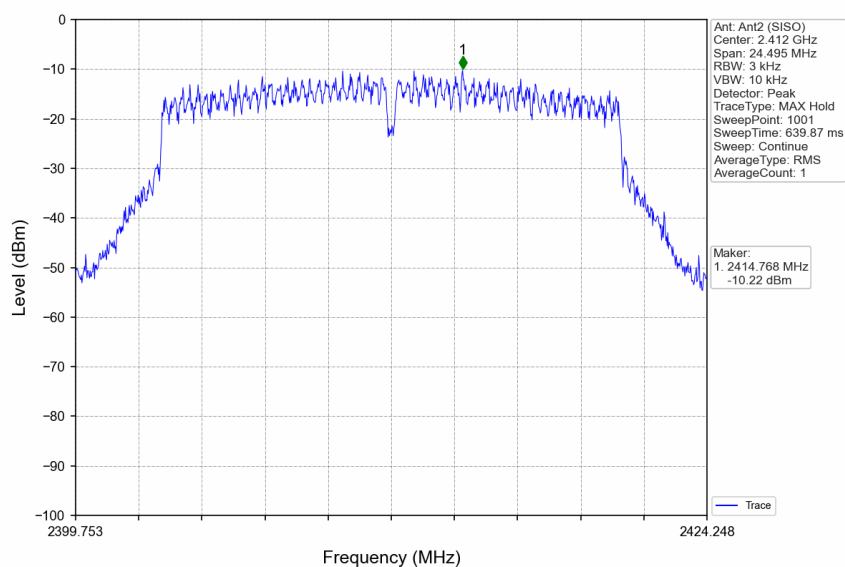
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## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



## 802.11n(HT20)\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

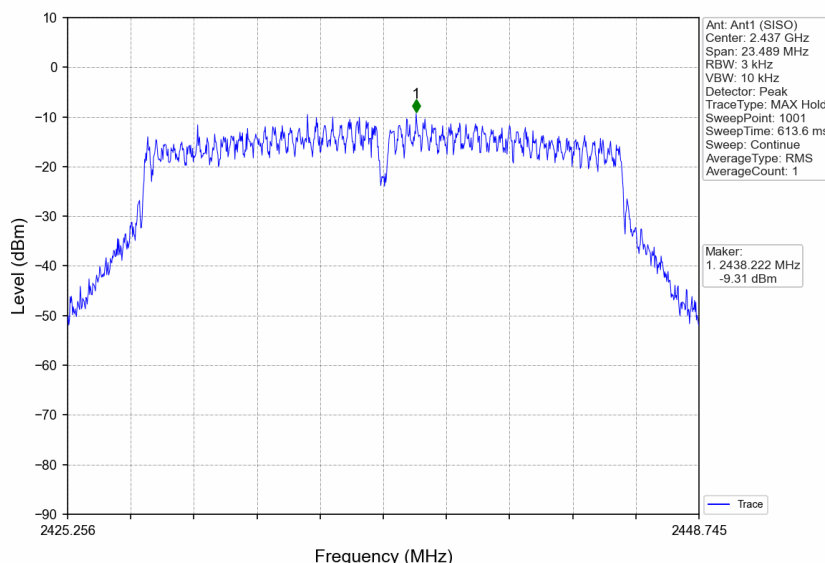


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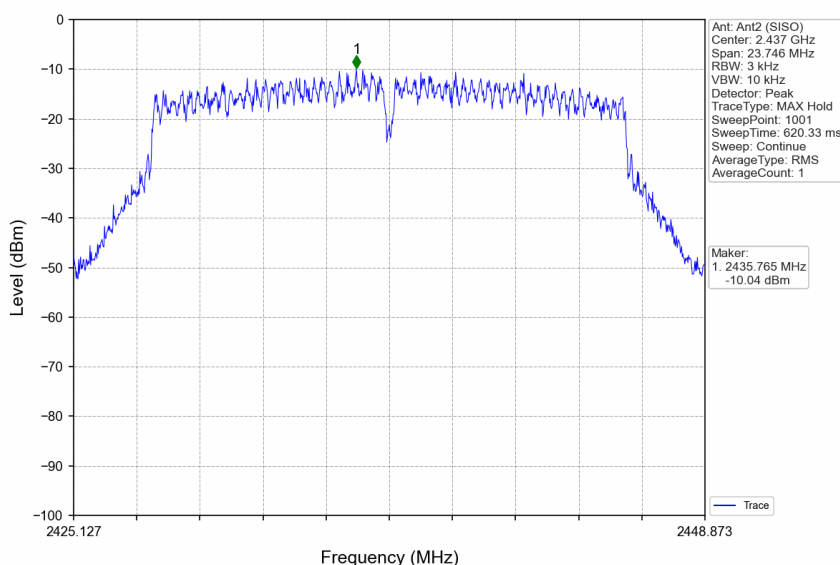
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO) NTN

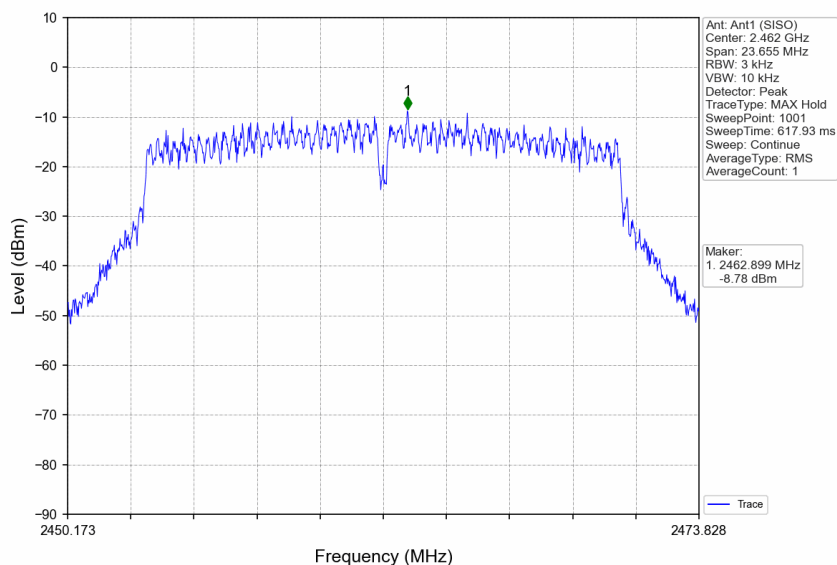
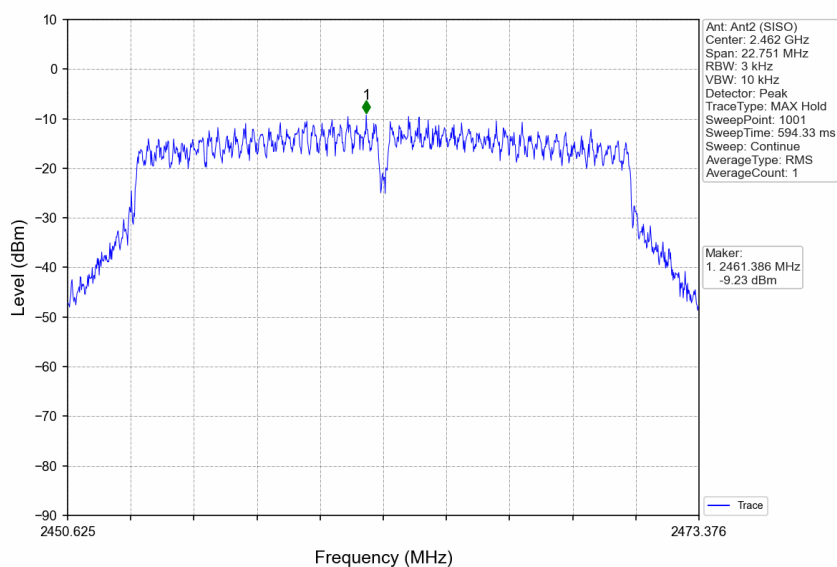


802.11n(HT20)\_MCH\_2437MHz\_Ant2 (SISO) NTN



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**802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV**

**802.11n(HT20)\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV**


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

### 5.1 Ref

#### 5.1.1 Test Result

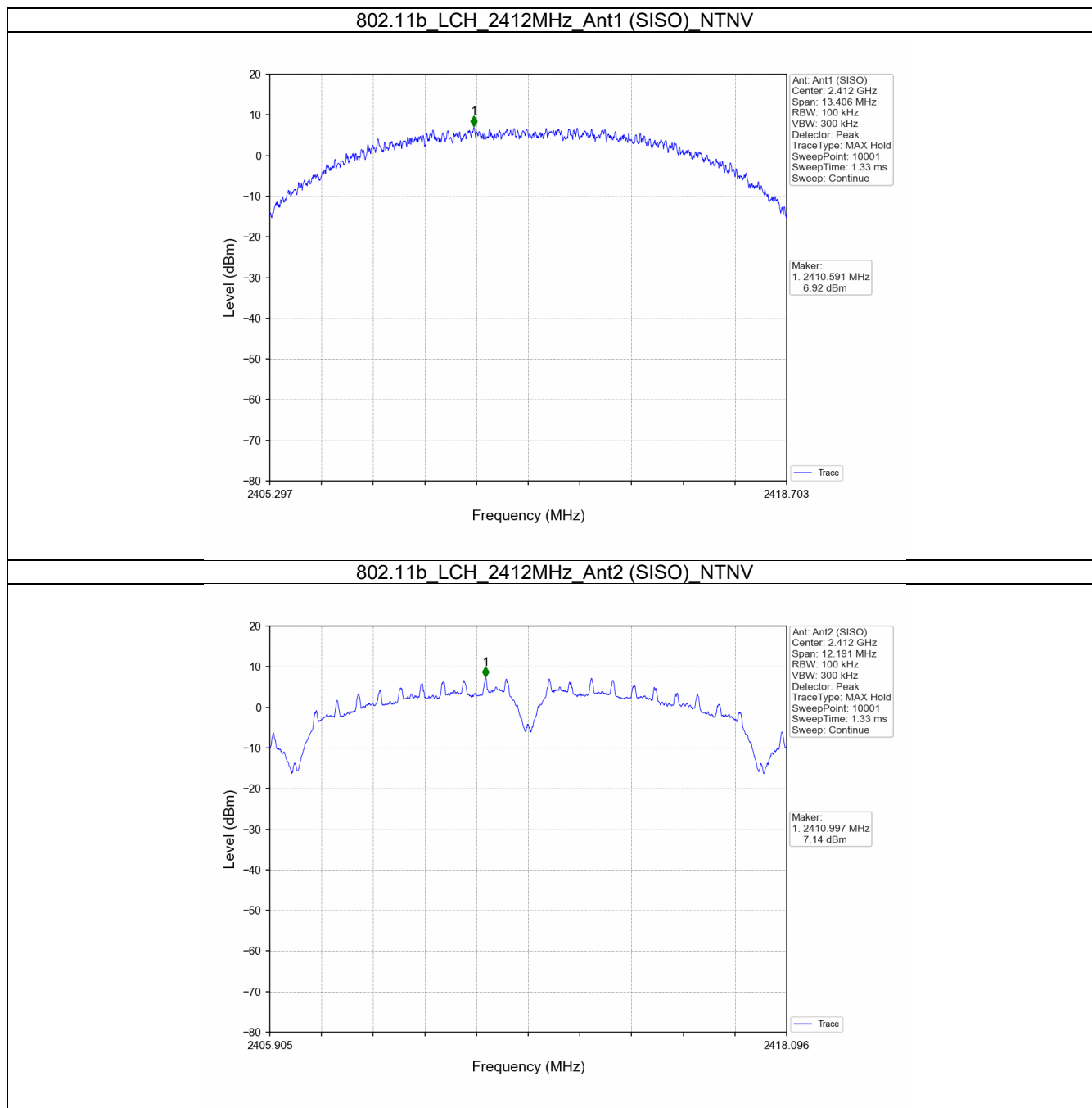
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	6.92
			2	7.14
		2437	1	7.47
			2	7.25
		2462	1	7.42
			2	6.88
802.11g	SISO	2412	1	4.20
			2	4.43
		2437	1	4.59
			2	4.35
		2462	1	5.13
			2	4.55
802.11n (HT20)	SISO	2412	1	4.41
			2	4.10
		2437	1	4.47
			2	4.56
		2462	1	4.69
			2	4.84

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.



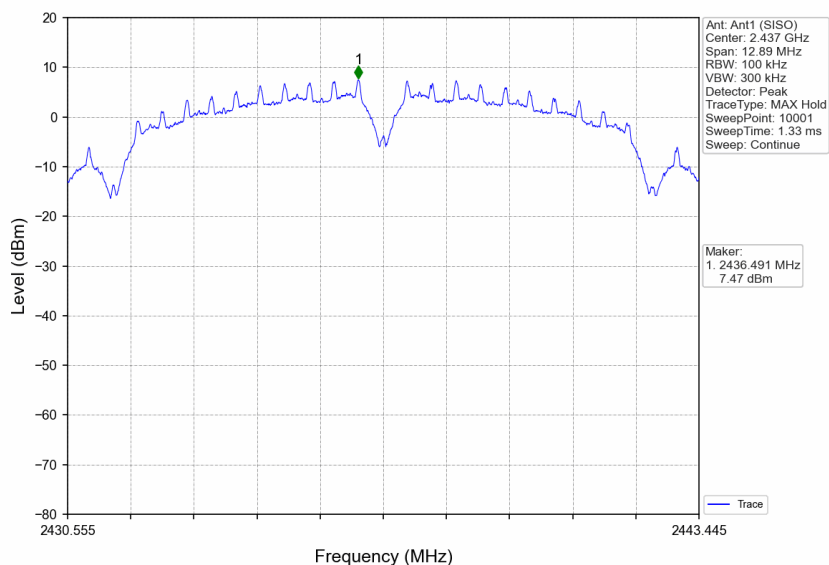
## 5.1.2 Test Graph



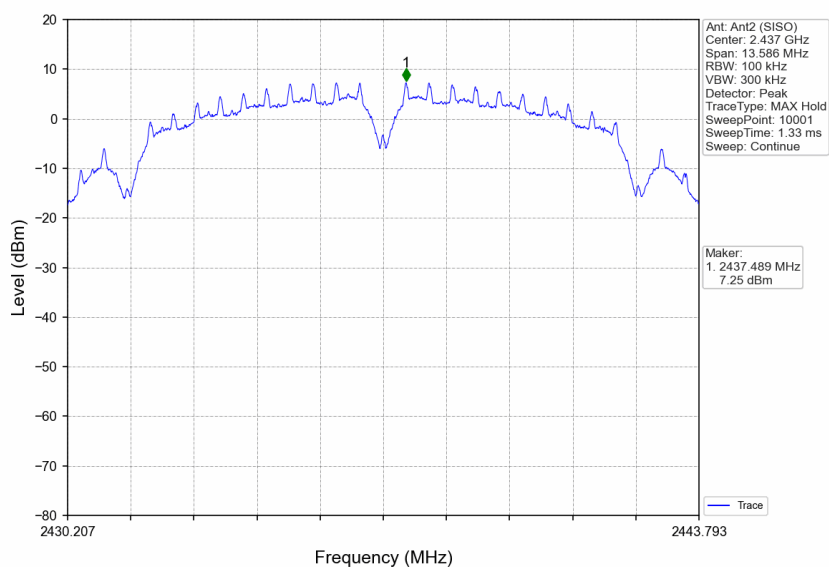
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802.11b MCH 2437MHz Ant1 (SISO) NTN

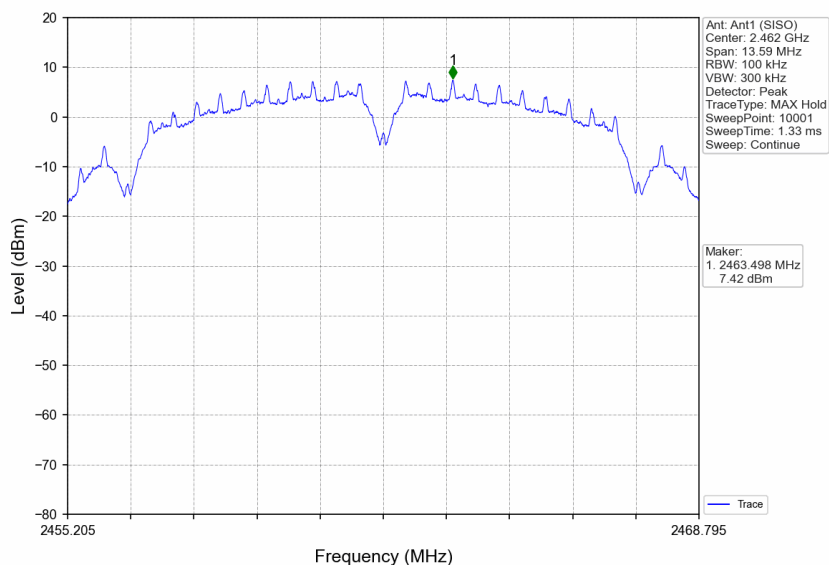


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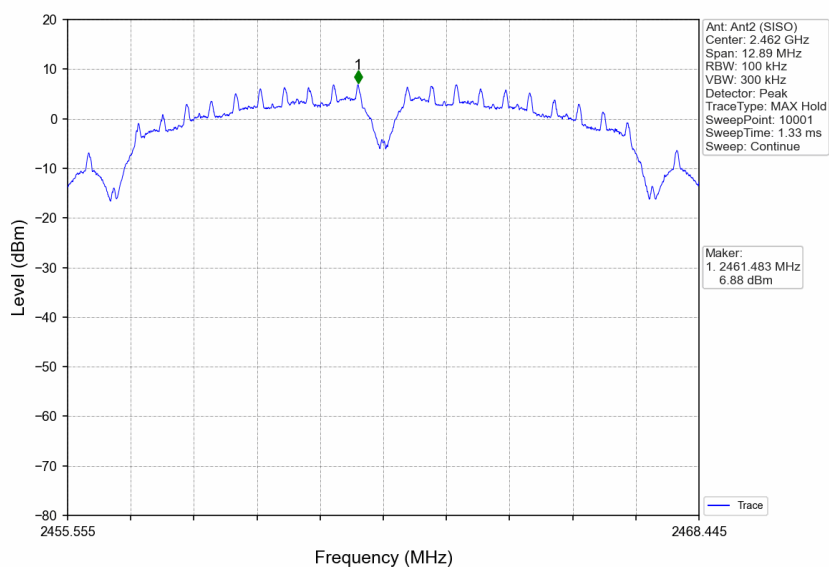




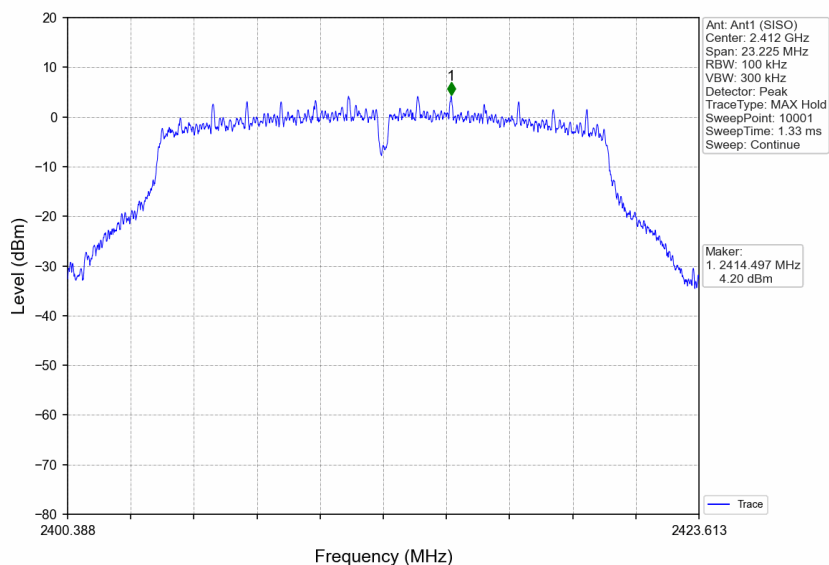
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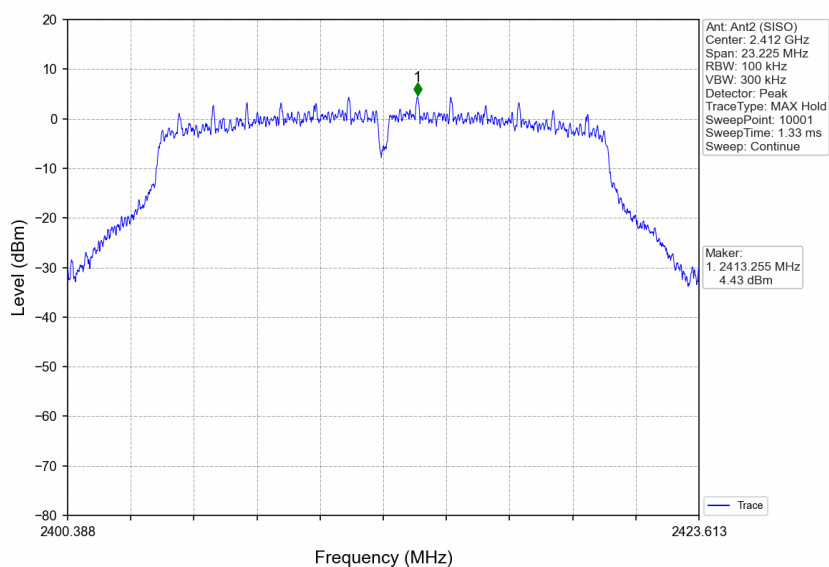
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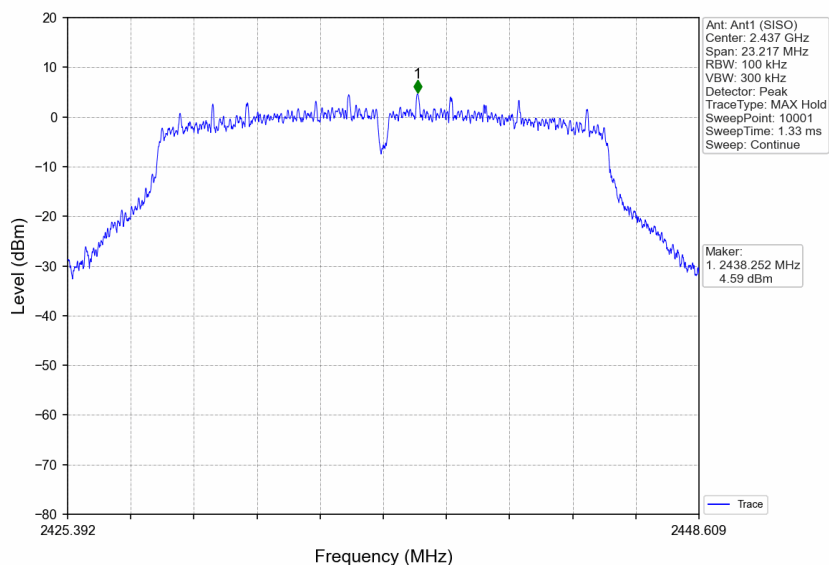
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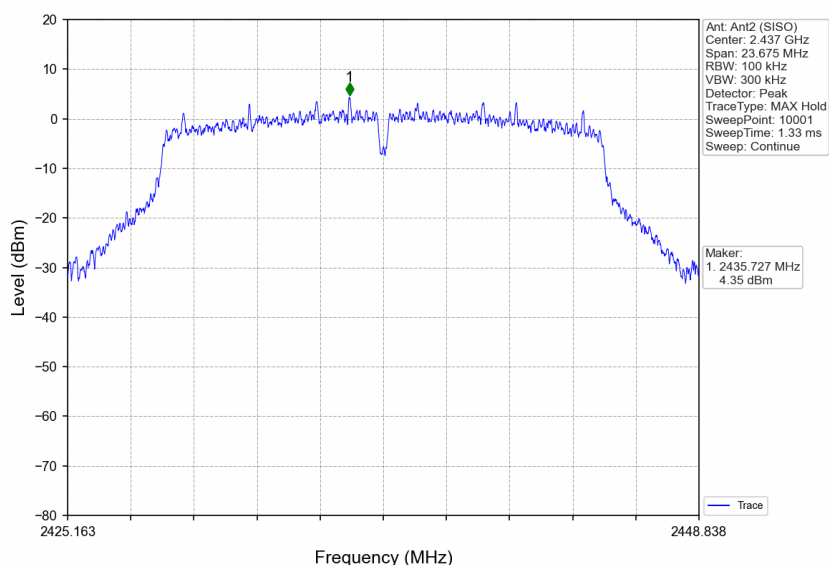
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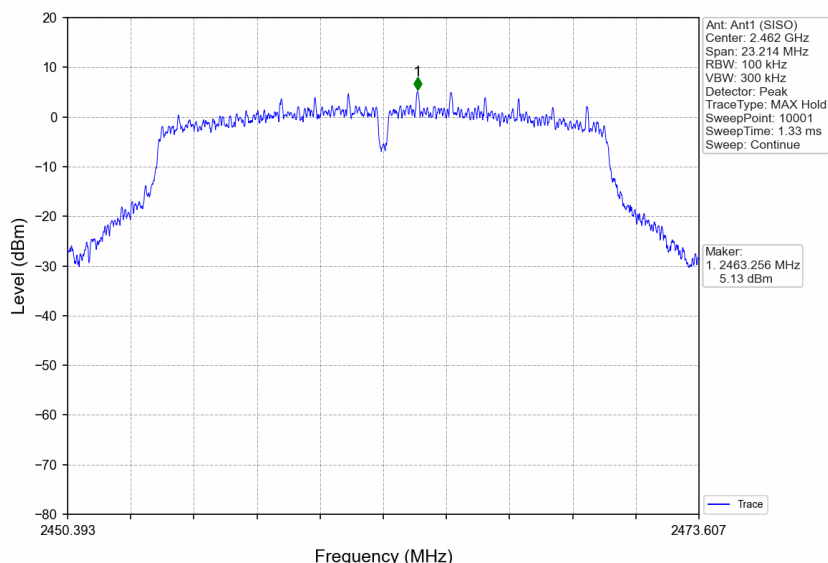
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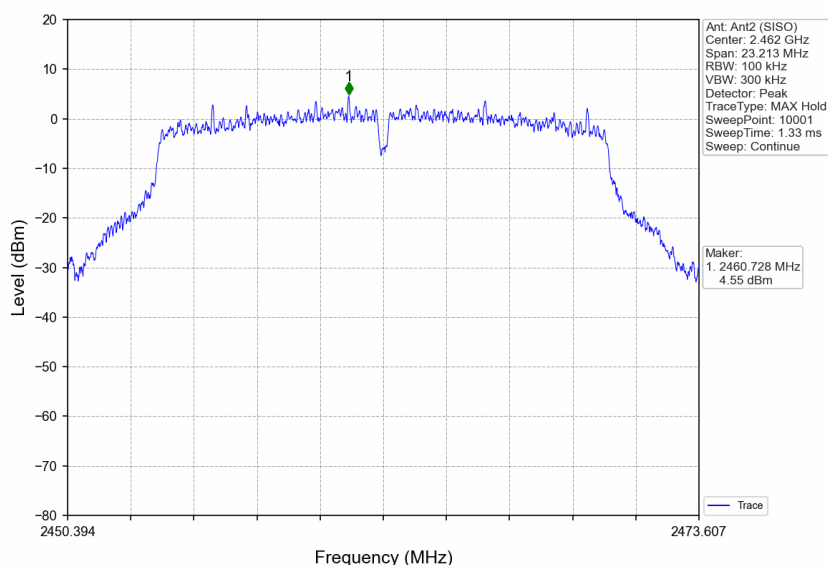
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



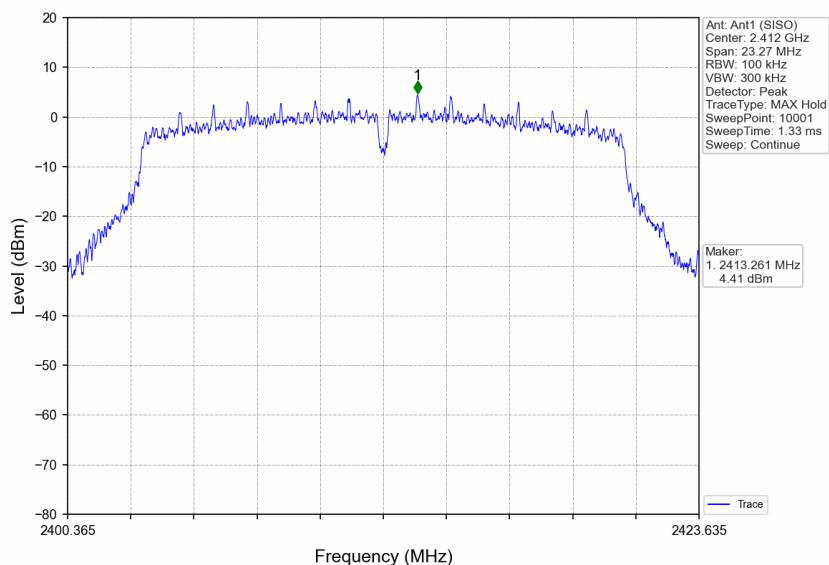
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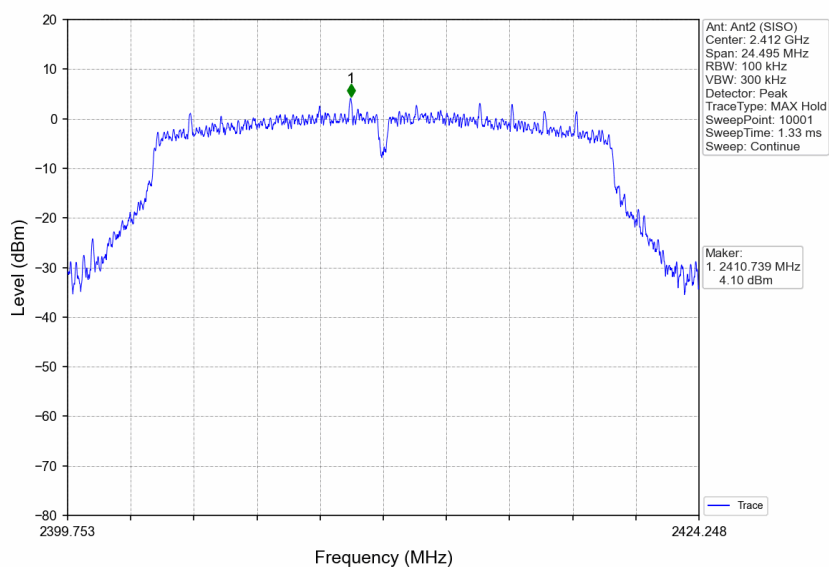
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

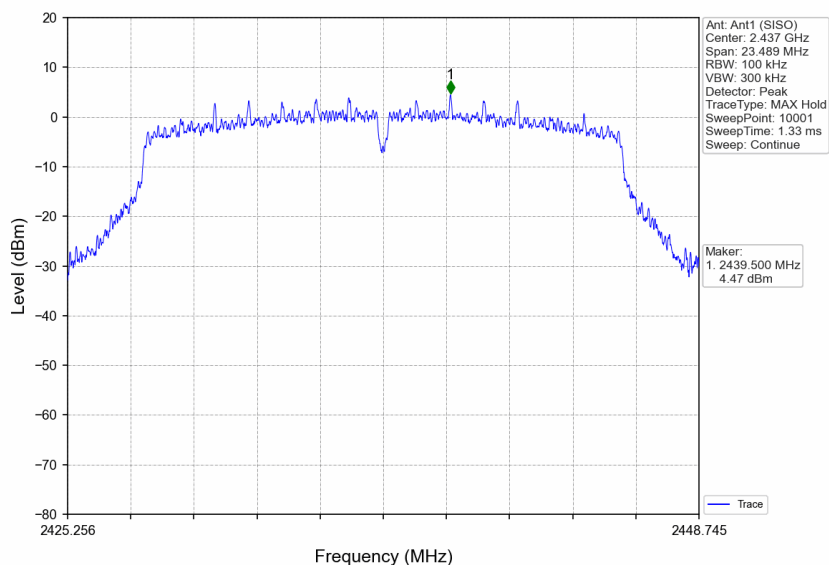


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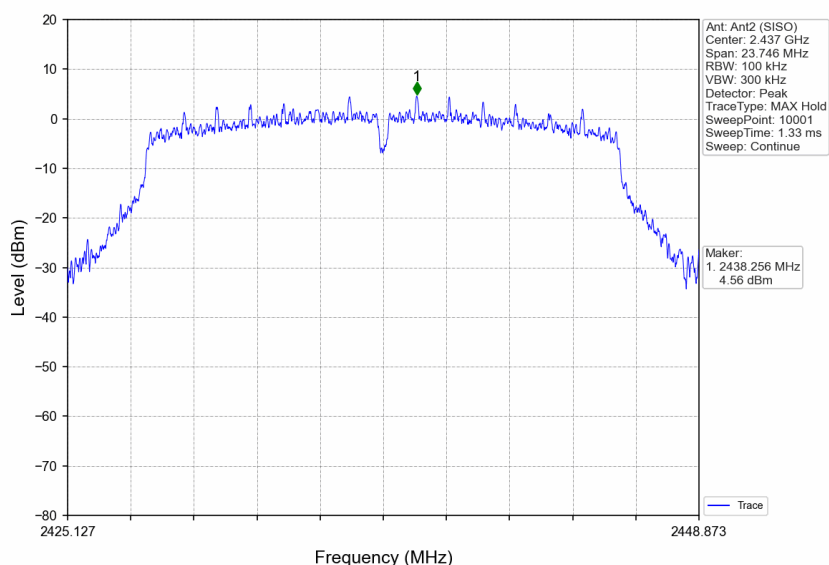
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO) NTN



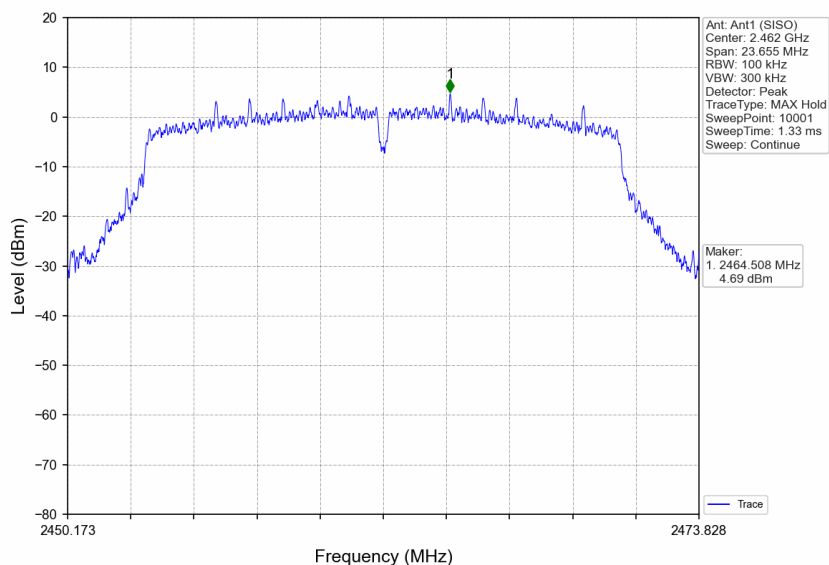
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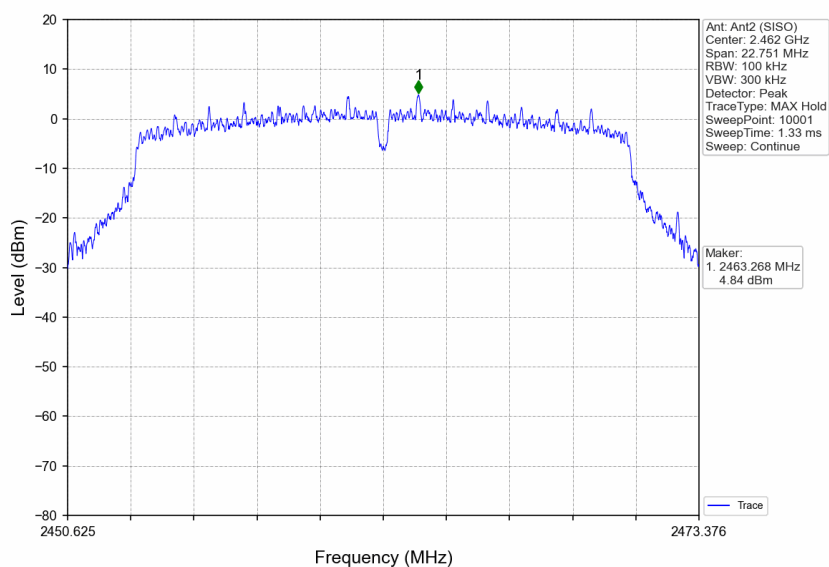
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



## 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	7.47	-22.53	Pass
			2	7.25	-22.75	Pass
		2437	1	7.47	-22.53	Pass
			2	7.25	-22.75	Pass
		2462	1	7.47	-22.53	Pass
			2	7.25	-22.75	Pass
802.11g	SISO	2412	1	5.13	-24.87	Pass
			2	4.55	-25.45	Pass
		2437	1	5.13	-24.87	Pass
			2	4.55	-25.45	Pass
		2462	1	5.13	-24.87	Pass
			2	4.55	-25.45	Pass
802.11n (HT20)	SISO	2412	1	4.69	-25.31	Pass
			2	4.84	-25.16	Pass
		2437	1	4.69	-25.31	Pass
			2	4.84	-25.16	Pass
		2462	1	4.69	-25.31	Pass
			2	4.84	-25.16	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.

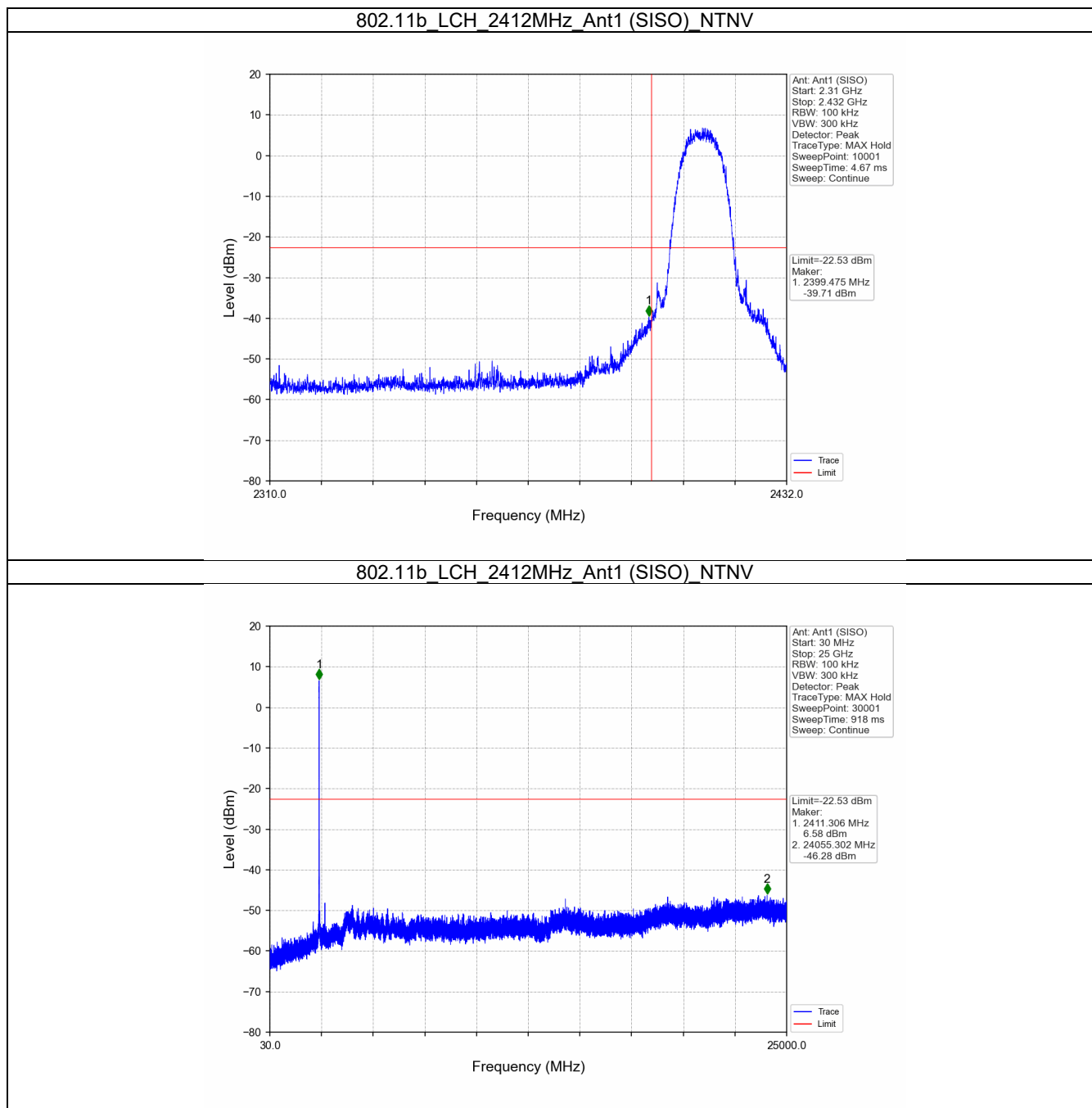
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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## 5.2.2 Test Graph



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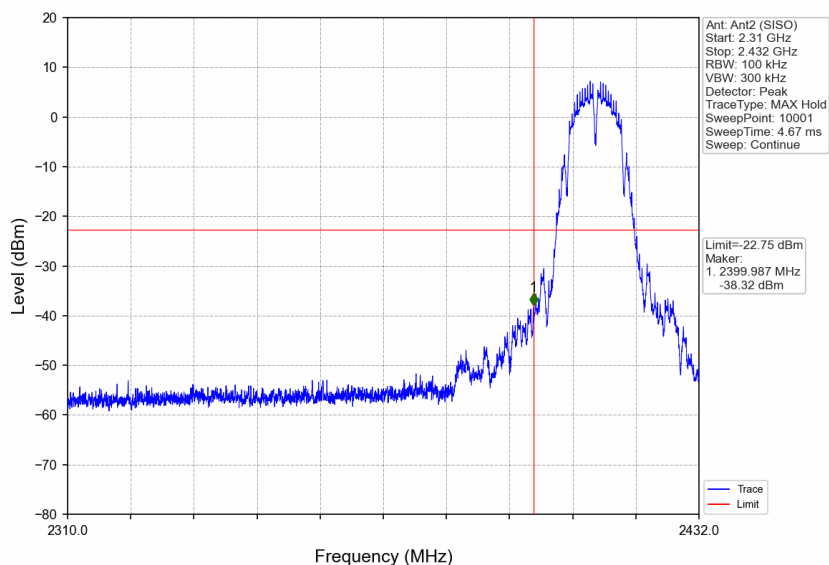
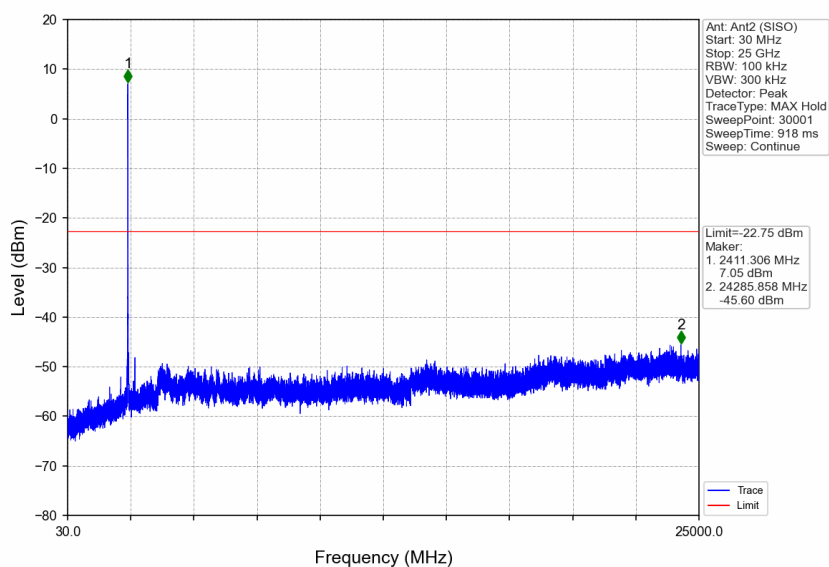
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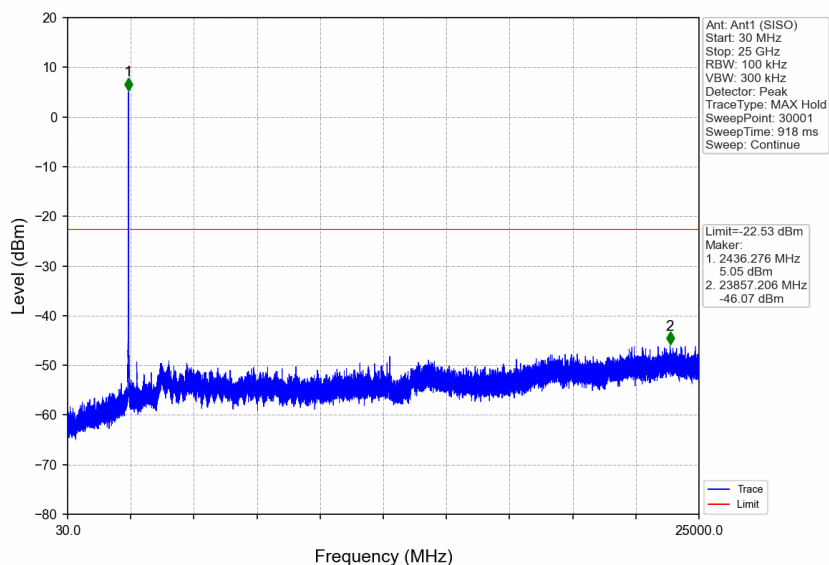
**802.11b LCH 2412MHz Ant2 (SISO) NTNV**

**802.11b LCH 2412MHz Ant2 (SISO) NTNV**


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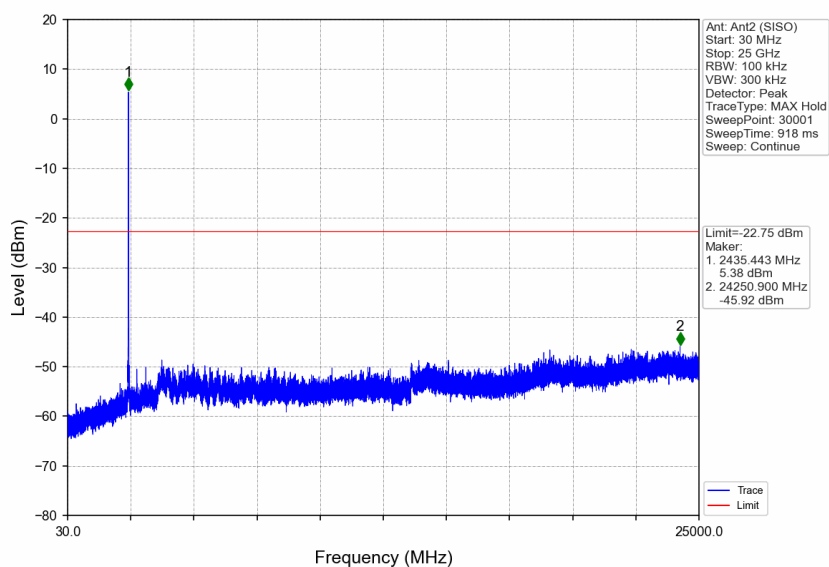
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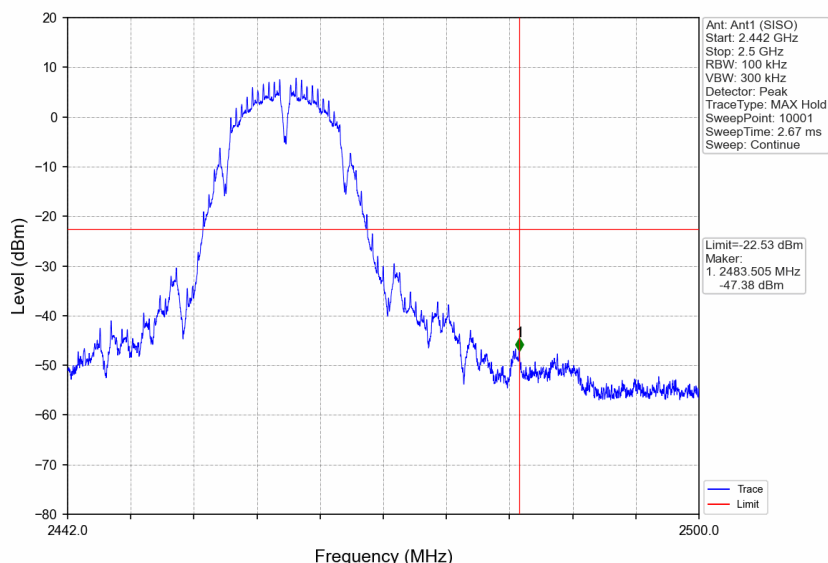
802.11b MCH 2437MHz Ant2 (SISO) NTN



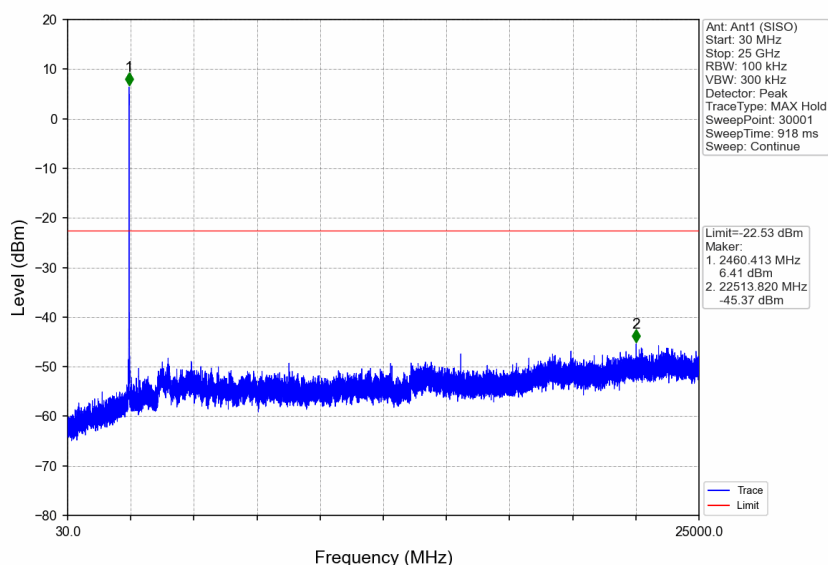
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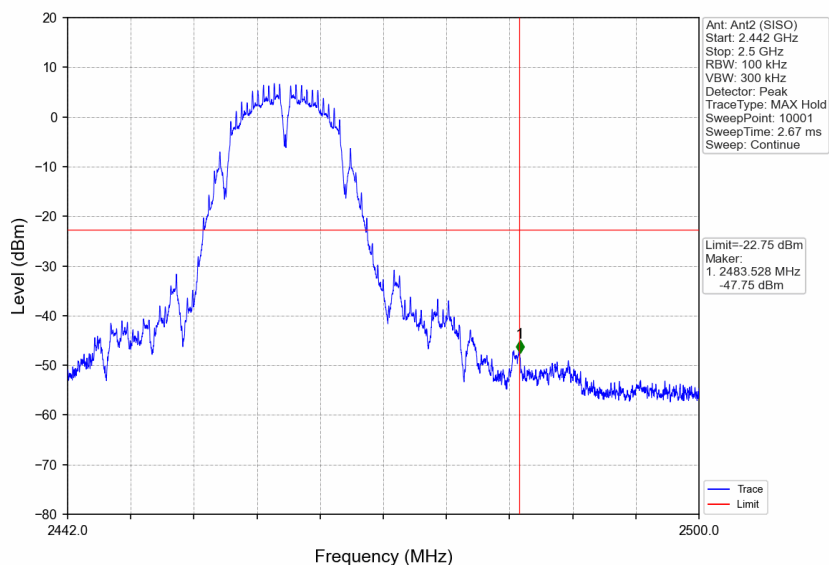
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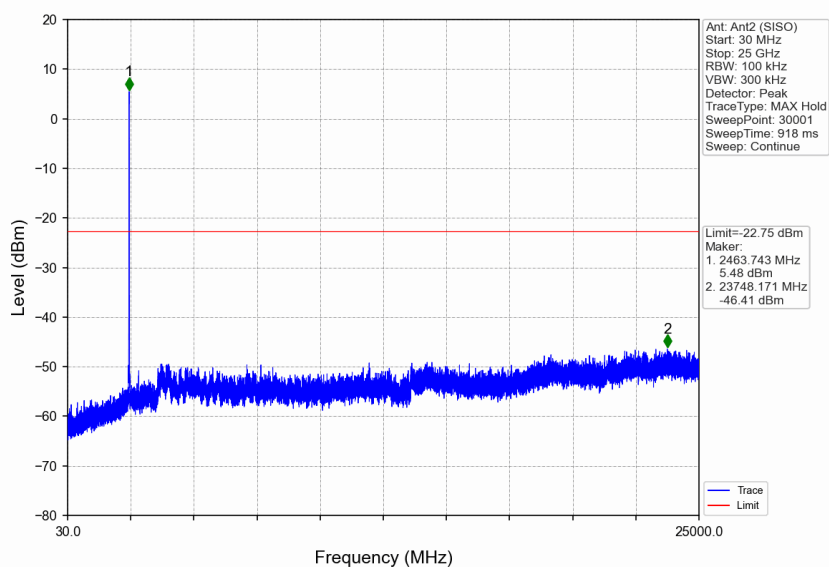
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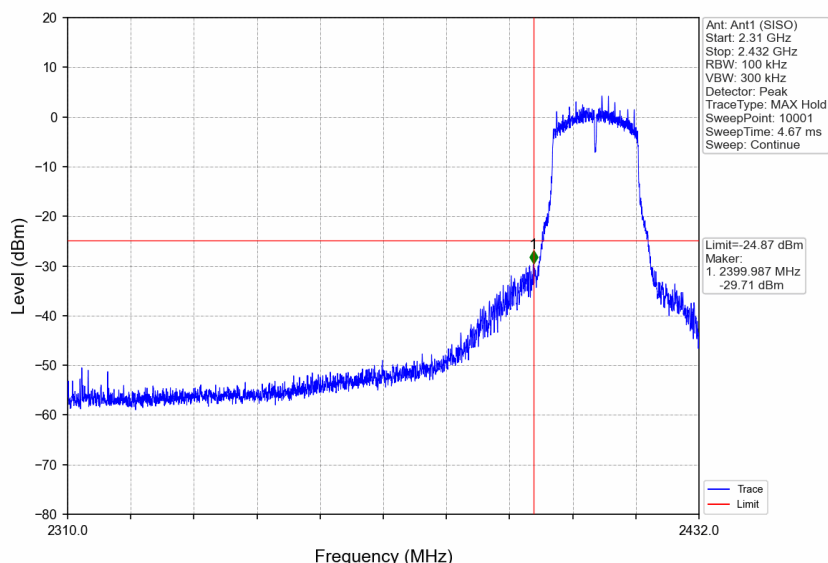
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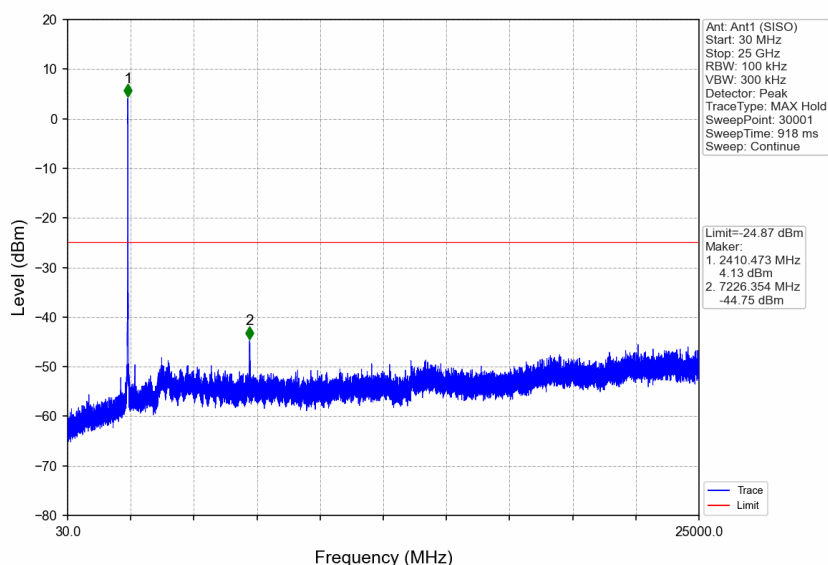
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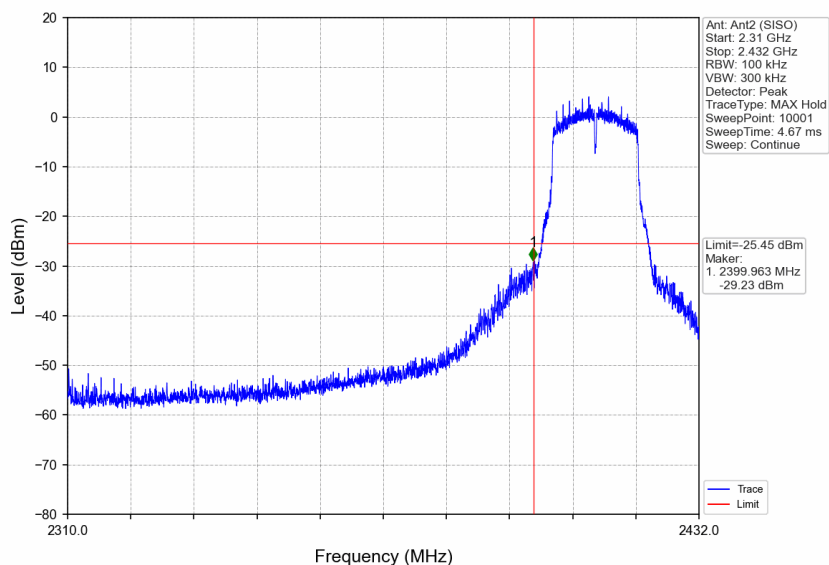
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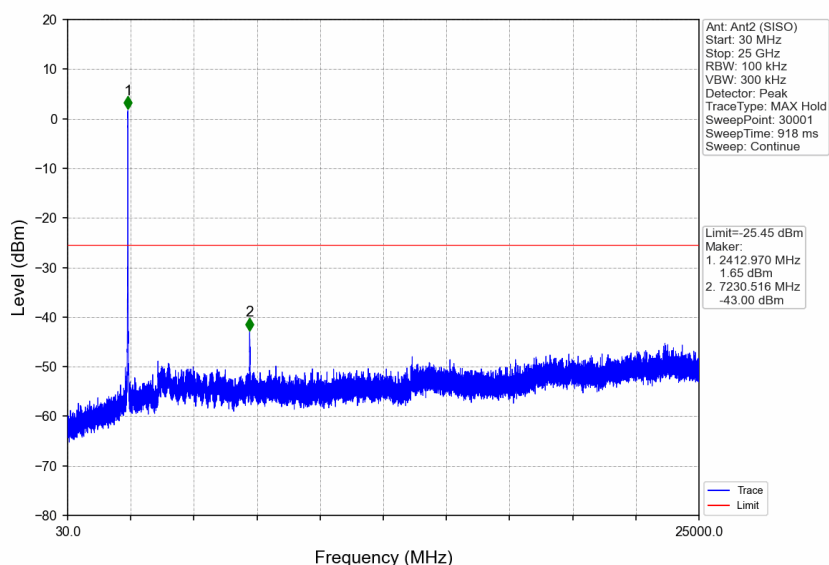
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802.11g LCH 2412MHz Ant2 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV

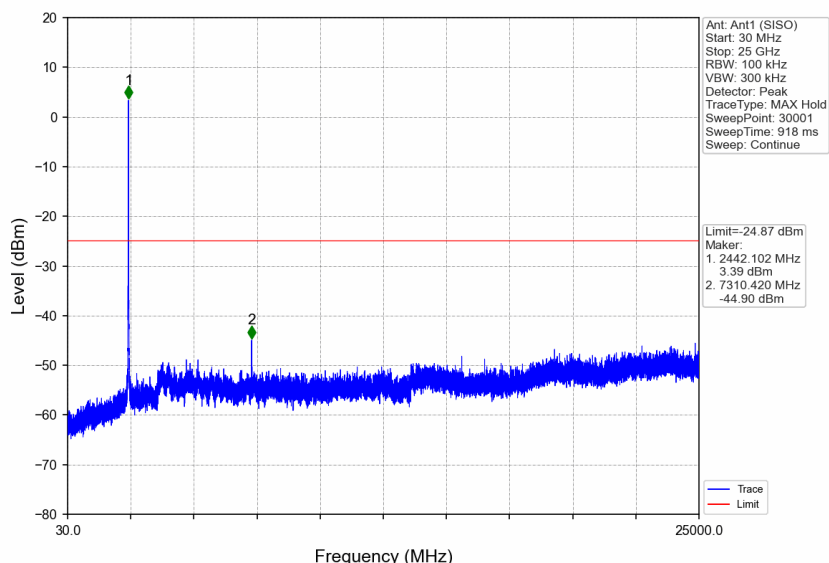


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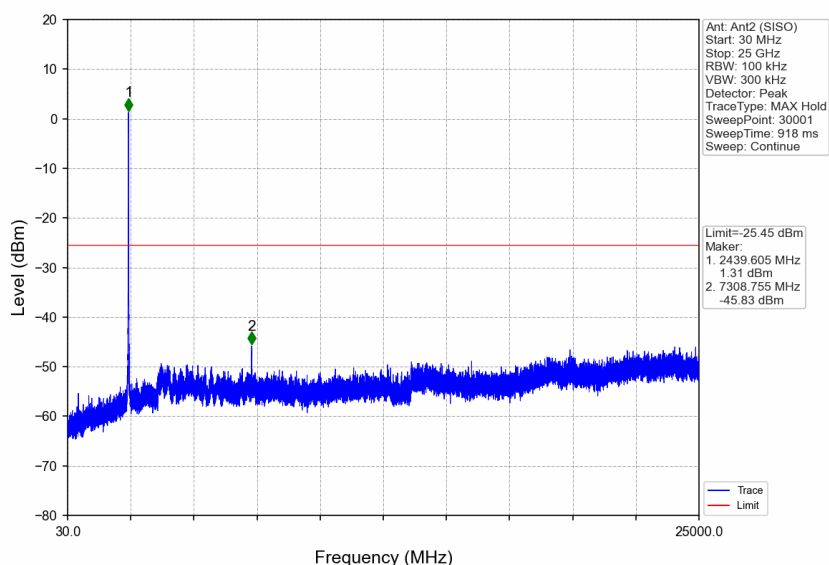
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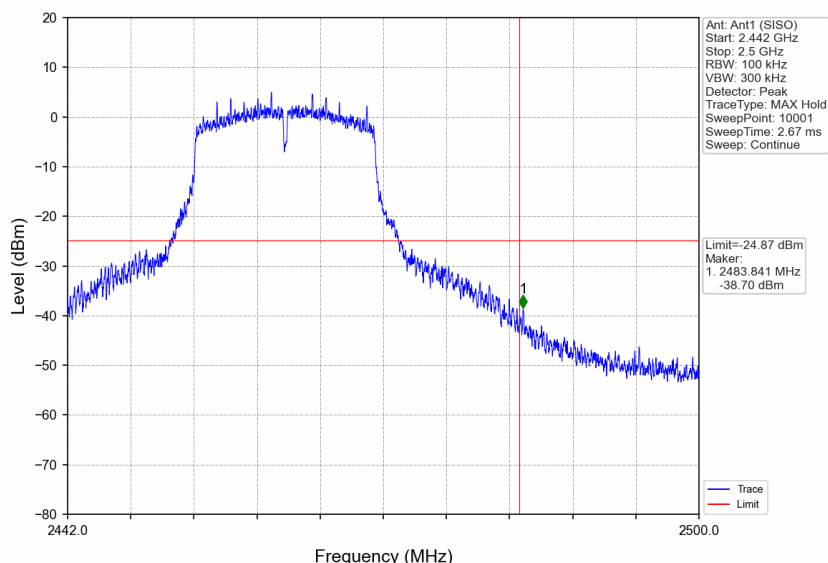
802.11g MCH 2437MHz Ant2 (SISO) NTN



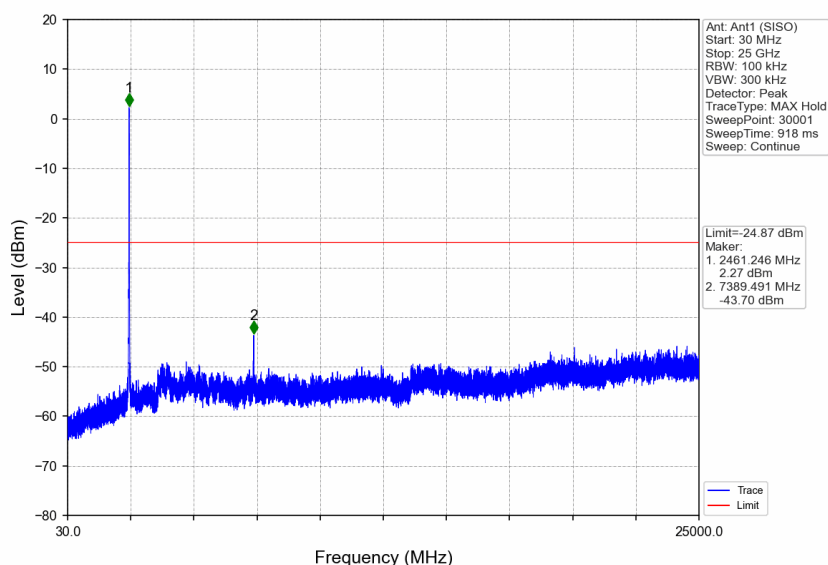
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



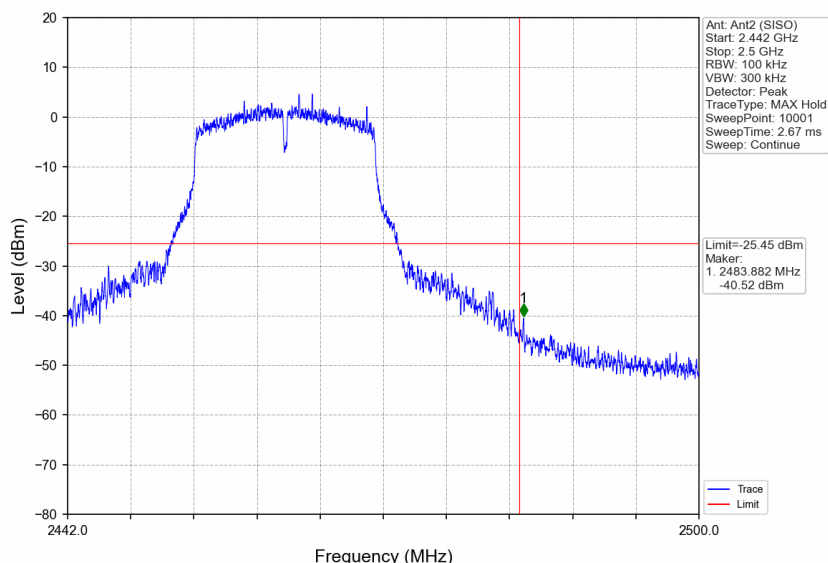
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



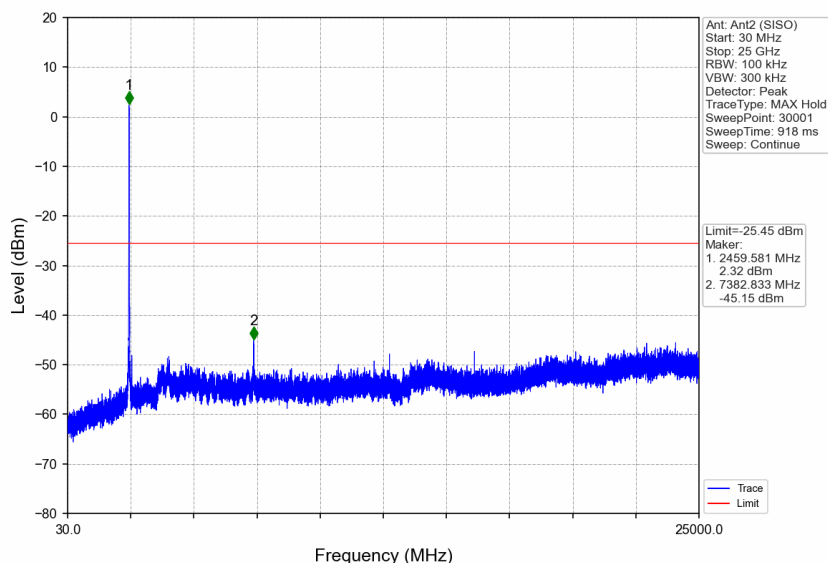
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802.11g HCH 2462MHz Ant2 (SISO) NTN



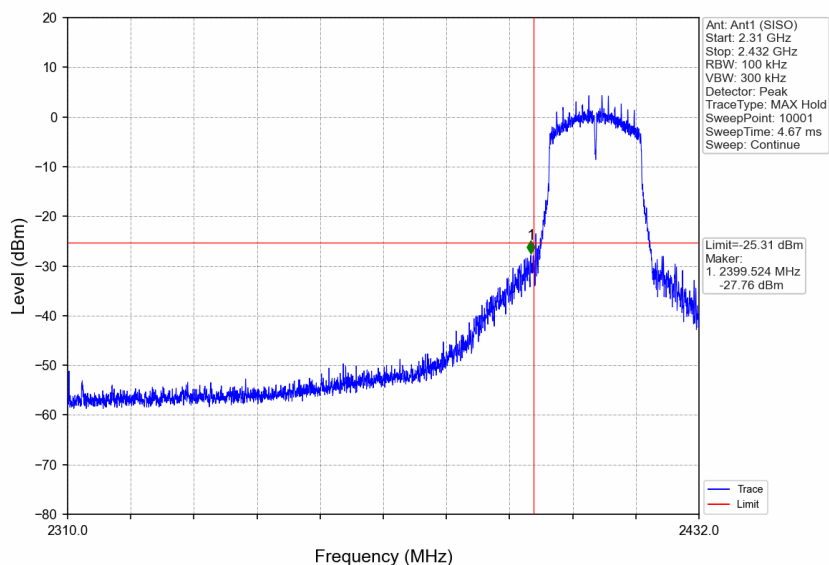
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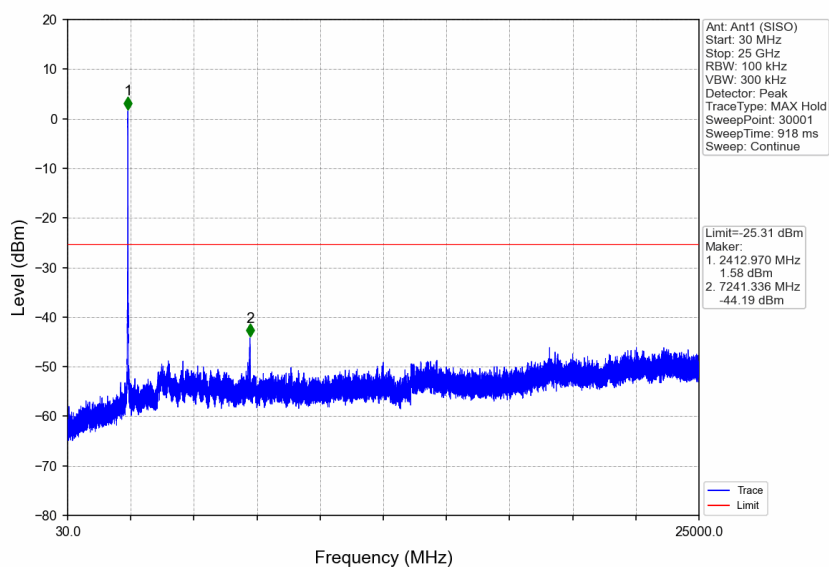
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



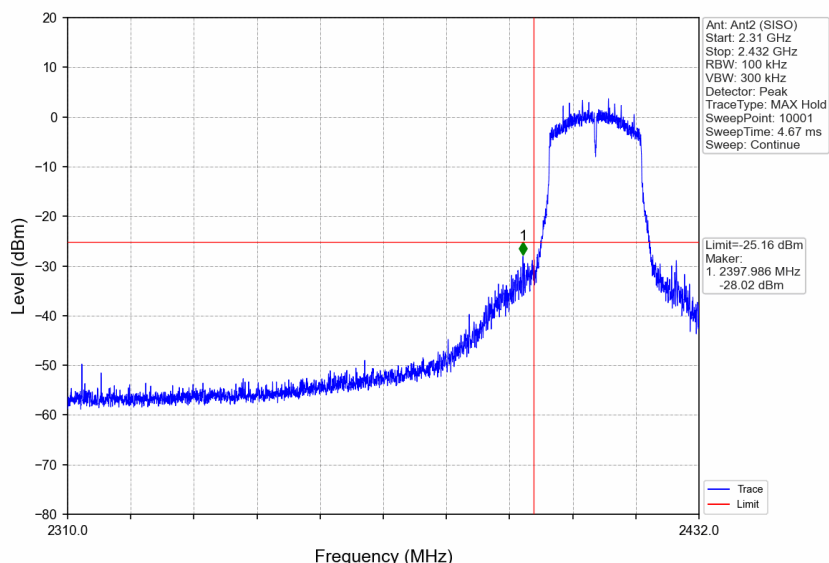
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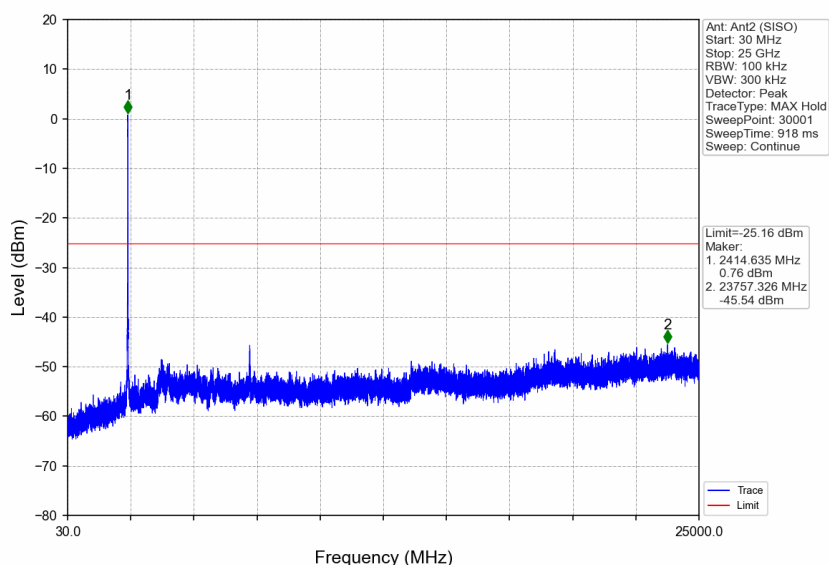
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802.11n(HT20)\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

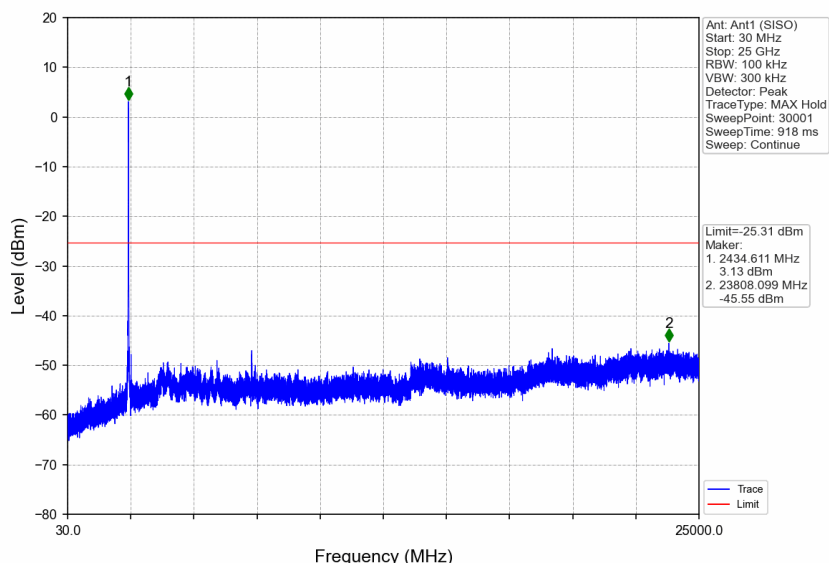


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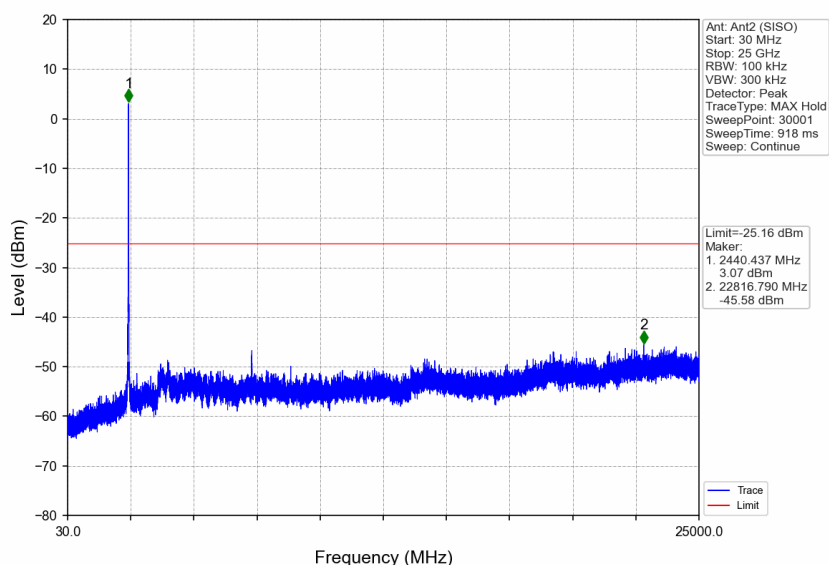
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO) NTN



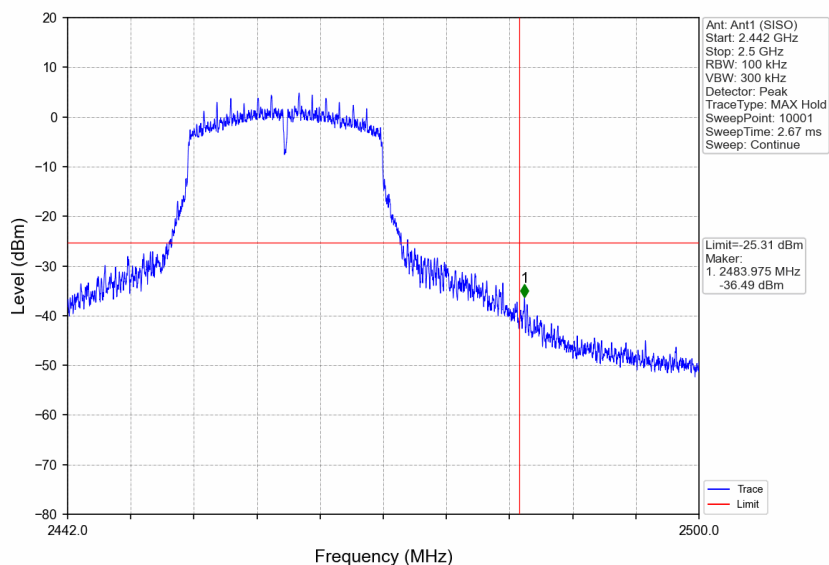
802.11n(HT20)\_MCH\_2437MHz\_Ant2 (SISO) NTN



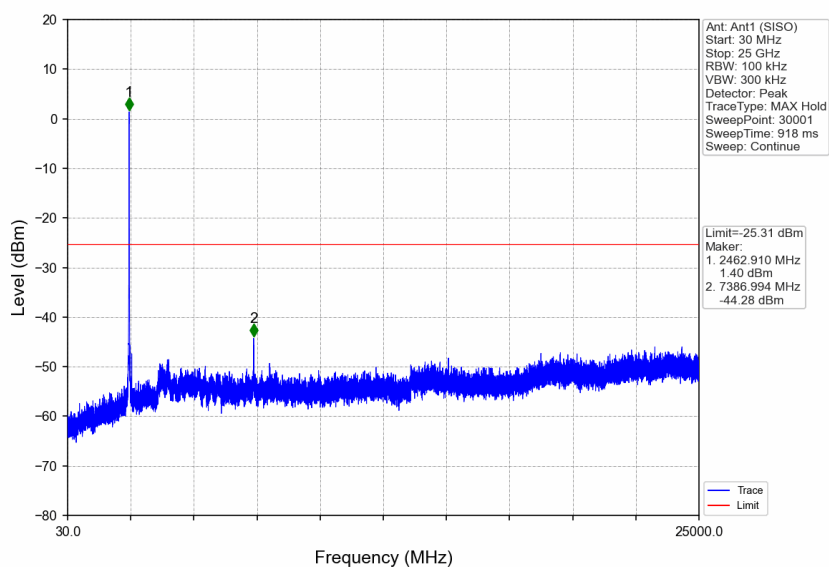
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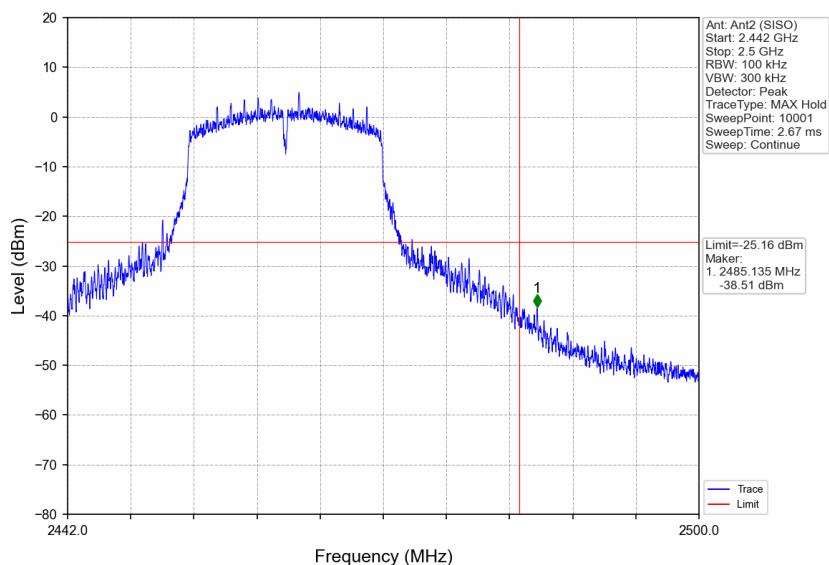
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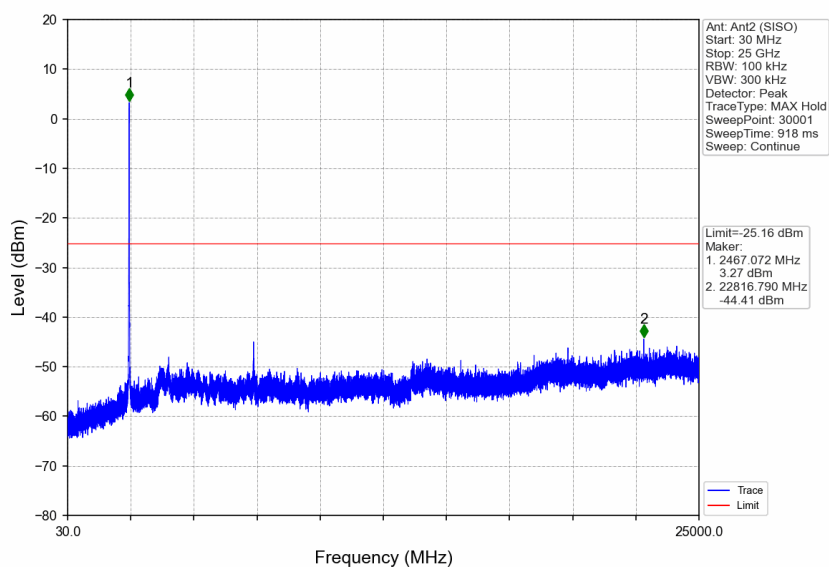
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