

Appendix A for SHCR211000048101

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

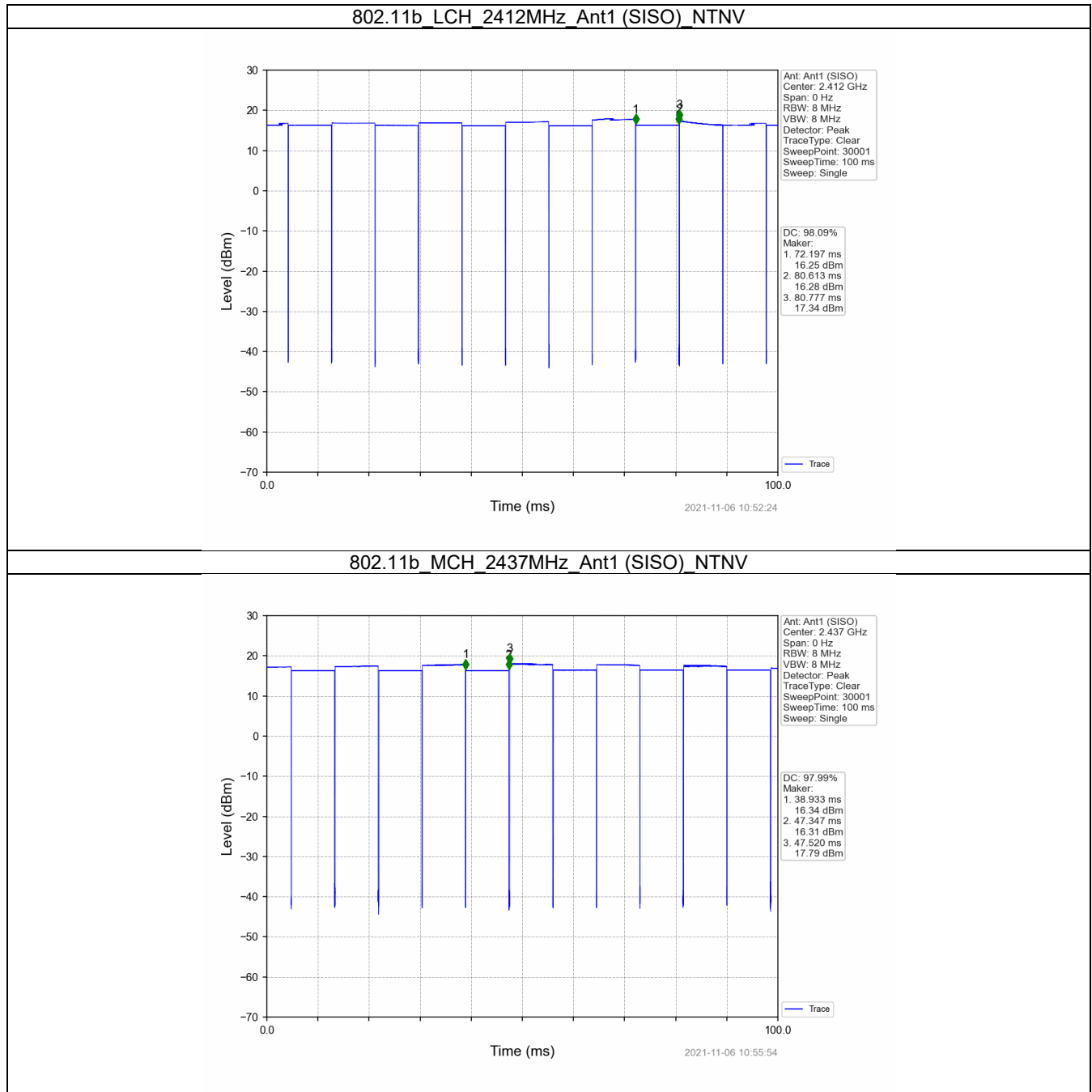
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.416	8.580	98.09	0.08	1.35
		2437	8.414	8.587	97.99	0.09	1.47
		2462	8.413	8.586	97.99	0.09	1.47
802.11g	SISO	2412	1.396	1.565	89.20	0.50	7.17
		2437	1.397	1.558	89.67	0.47	7.32
		2462	1.396	1.530	91.24	0.40	5.74
802.11n (HT20)	MIMO	2412	1.308	1.478	88.50	0.53	7.59
		2437	1.308	1.486	88.02	0.55	8.81
		2462	1.308	1.477	88.56	0.53	6.97



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1.1.2 Test Graph



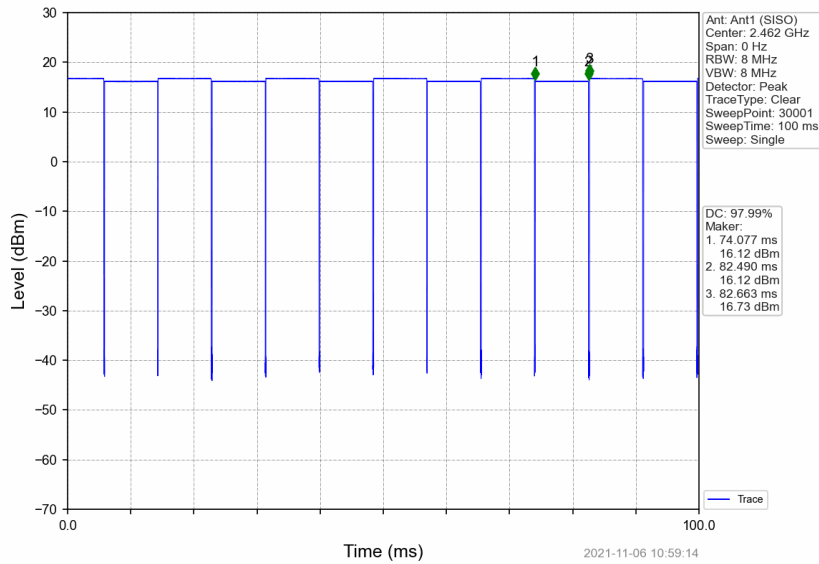
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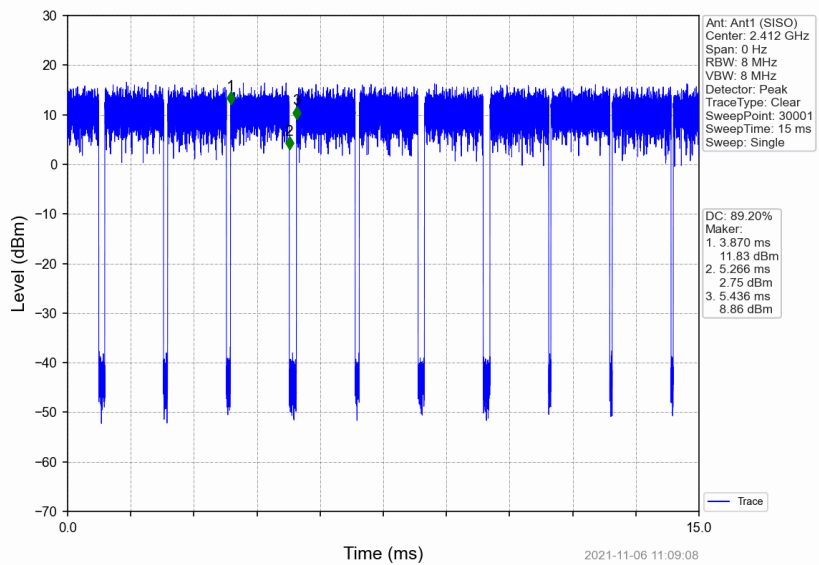
NO. 588 West Jindu Road, Songjiang District, Shanghai, China 201612  
中国·上海·松江区金都西路588号 邮编: 201612

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802.11b HCH 2462MHz Ant1 (SISO) NTN



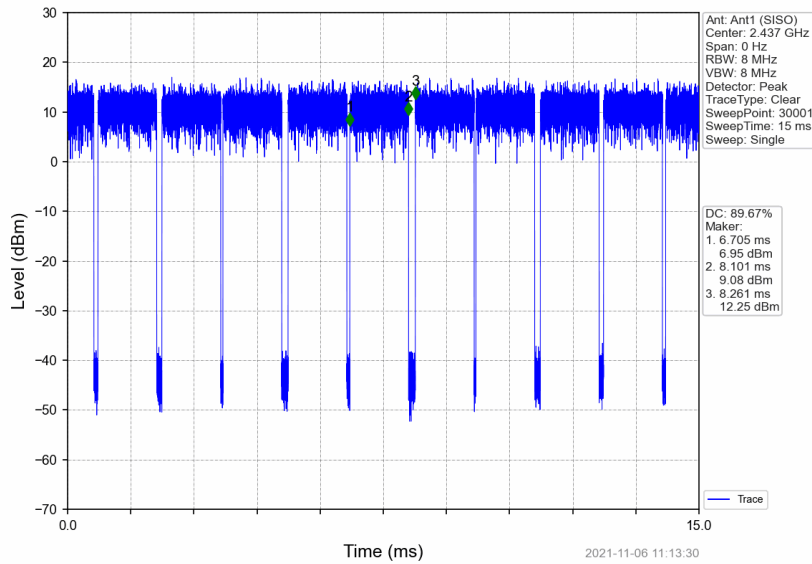
802.11g LCH 2412MHz Ant1 (SISO) NTN



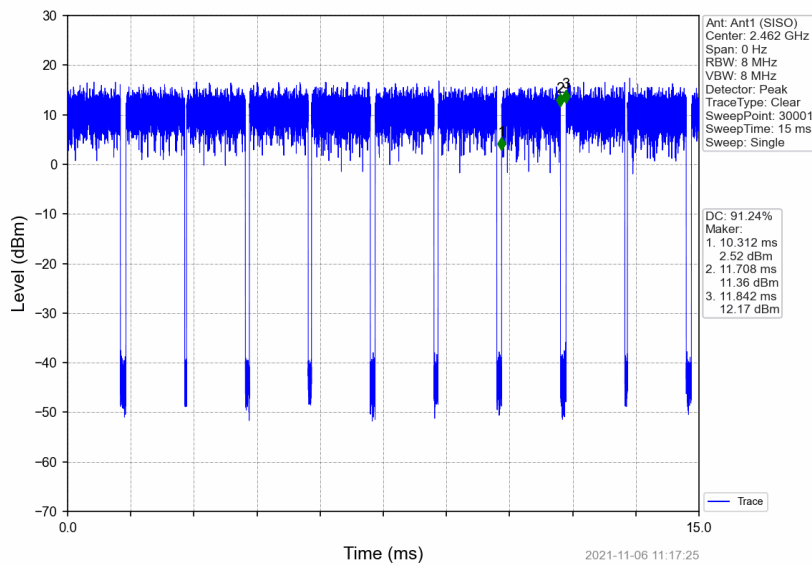
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802.11g MCH 2437MHz Ant1 (SISO) NTVN



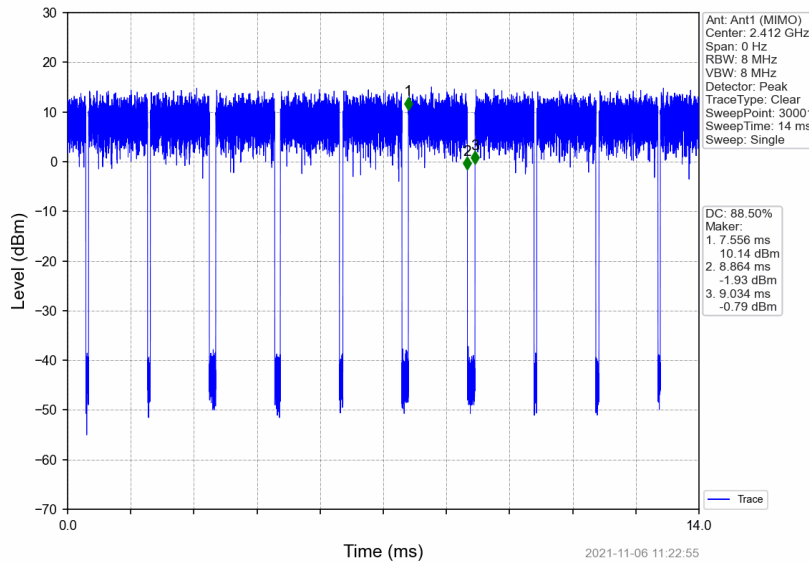
802.11g\_HCH 2462MHz Ant1 (SISO) NTVN



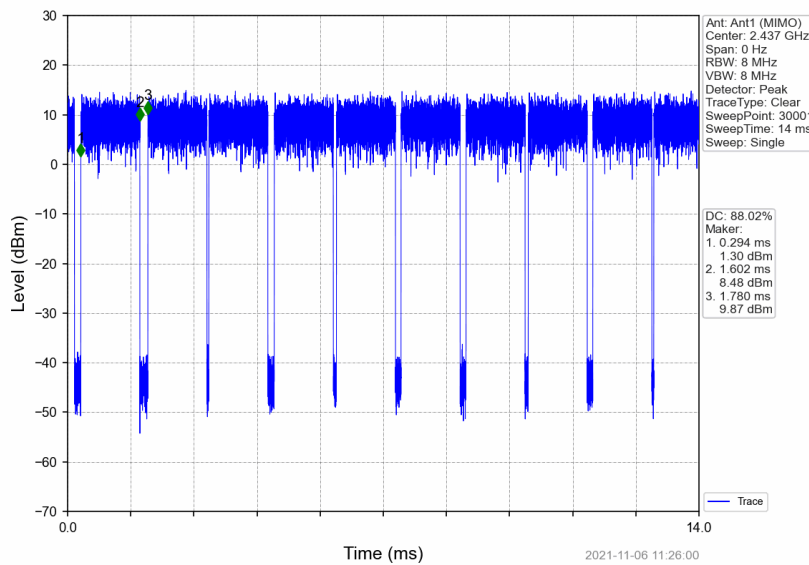
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTV

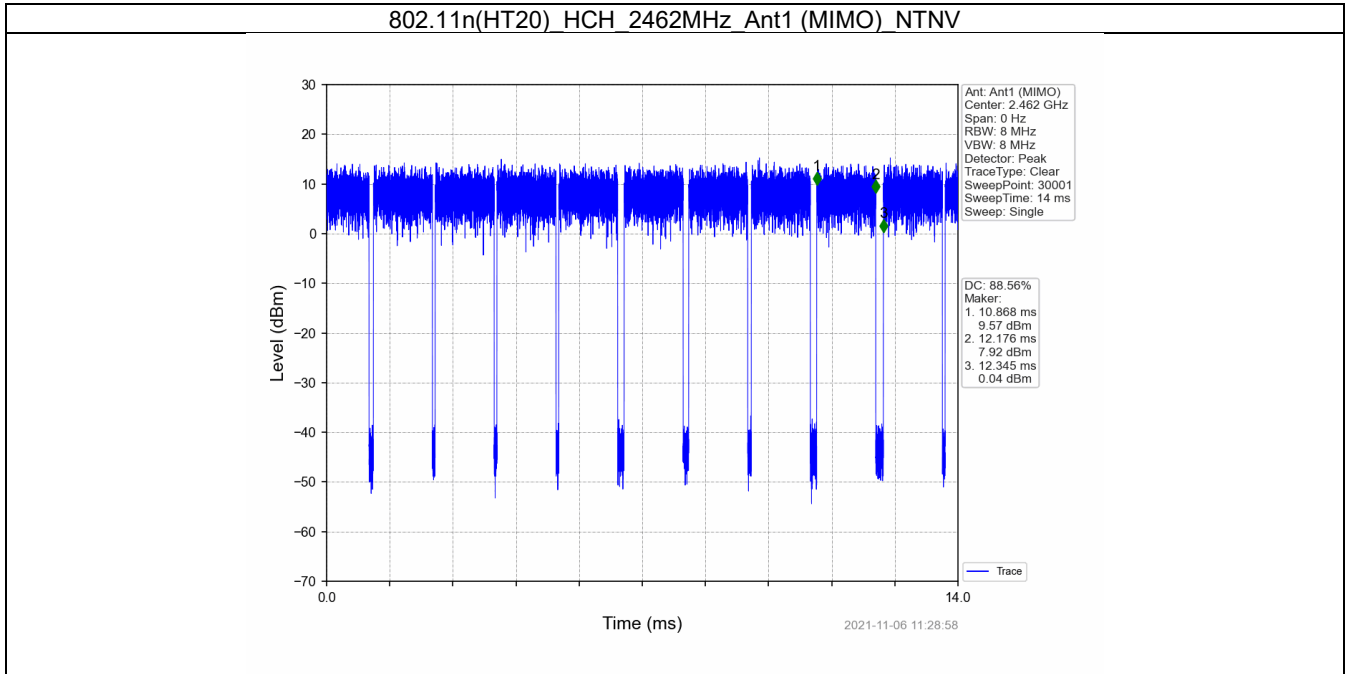


802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

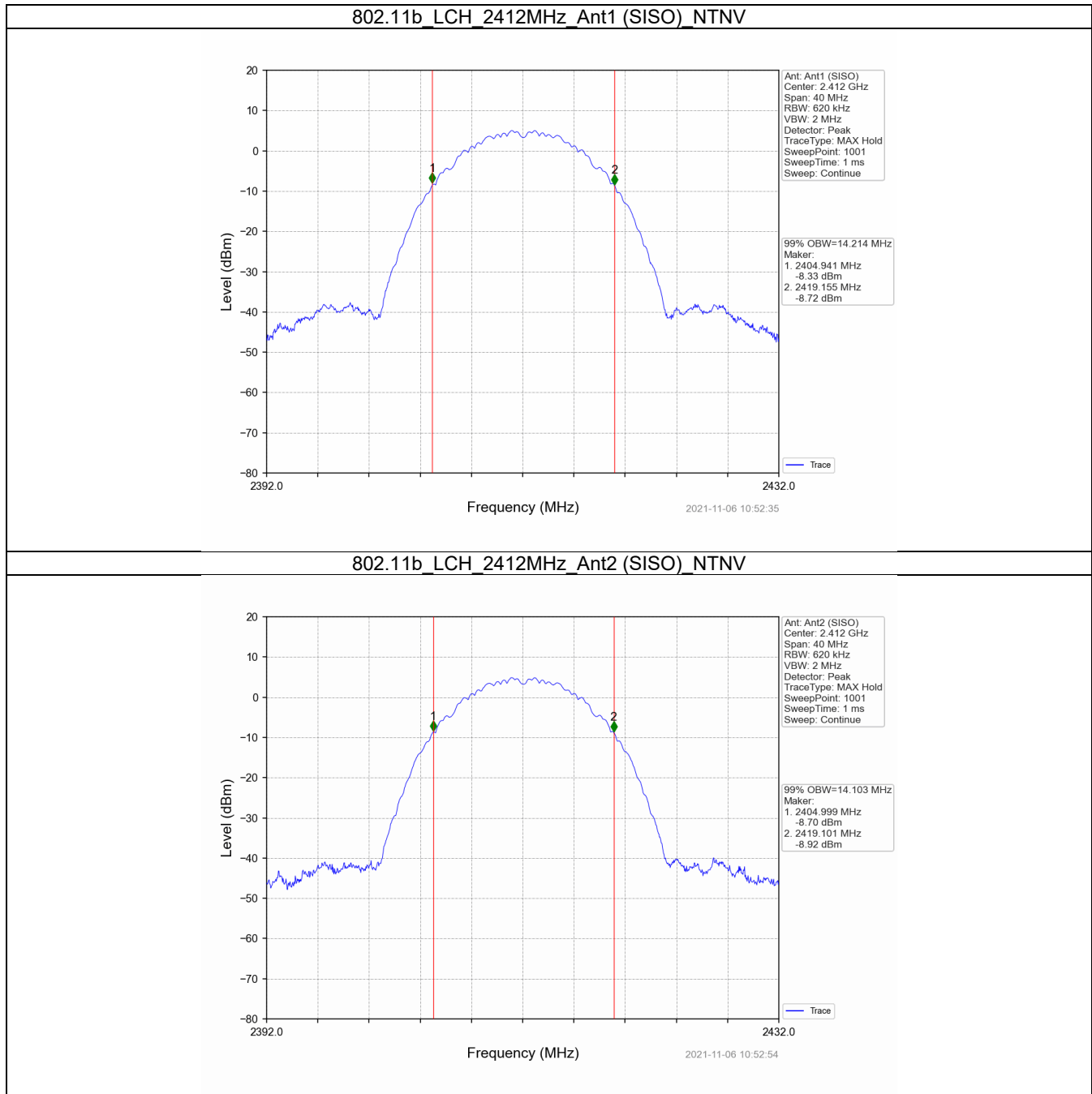
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.214	Pass
			2	14.103	Pass
		2437	1	14.181	Pass
			2	14.121	Pass
		2462	1	14.200	Pass
			2	14.146	Pass
802.11g	SISO	2412	1	17.451	Pass
			2	16.800	Pass
		2437	1	17.493	Pass
			2	16.796	Pass
		2462	1	17.494	Pass
			2	16.792	Pass
802.11n (HT20)	MIMO	2412	1	17.931	Pass
			2	17.646	Pass
		2437	1	17.974	Pass
			2	17.671	Pass
		2462	1	17.937	Pass
			2	17.644	Pass



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2.1.2 Test Graph

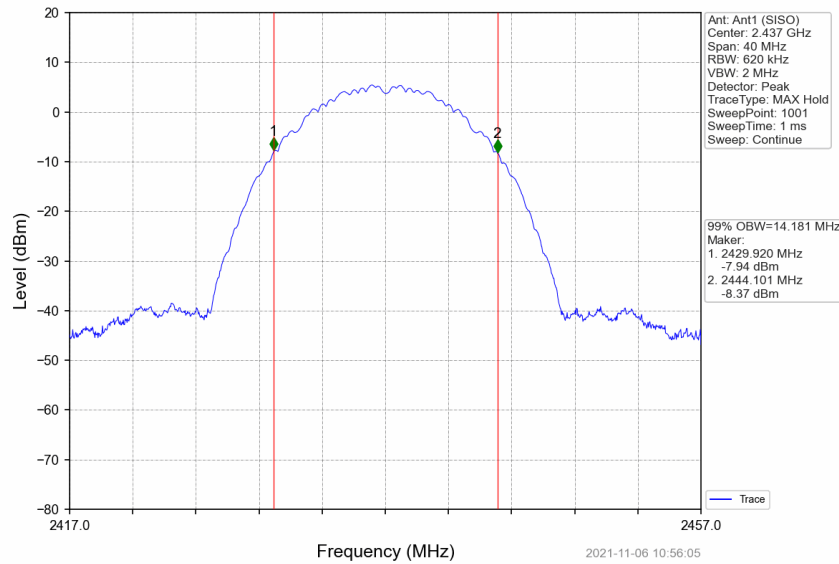


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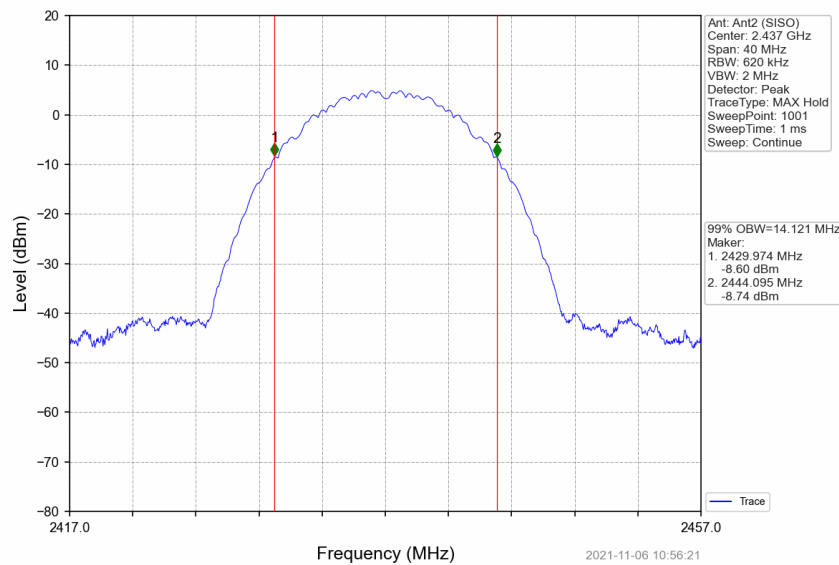
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802.11b MCH 2437MHz Ant1 (SISO) NTVN



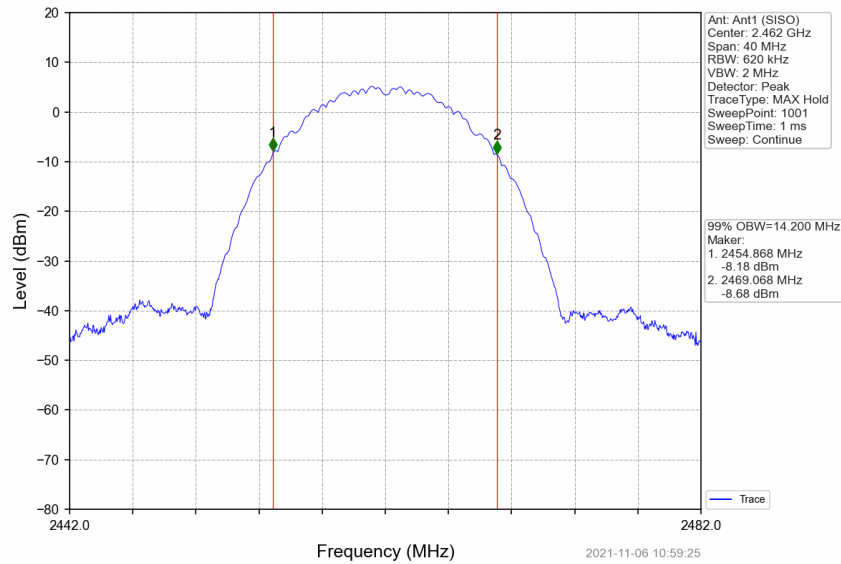
802.11b MCH 2437MHz Ant2 (SISO) NTVN



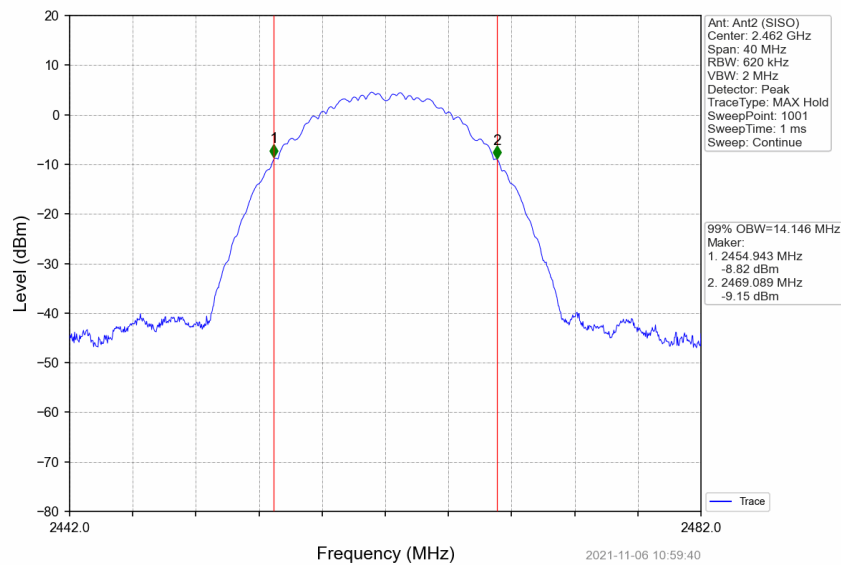
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802.11b HCH 2462MHz Ant1 (SISO) NTN



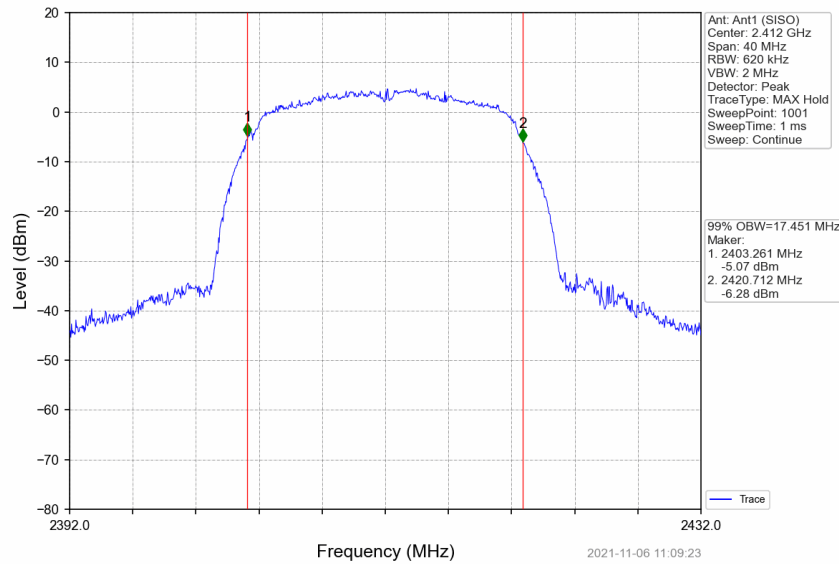
802.11b\_HCH\_2462MHz\_Ant2 (SISO) NTN



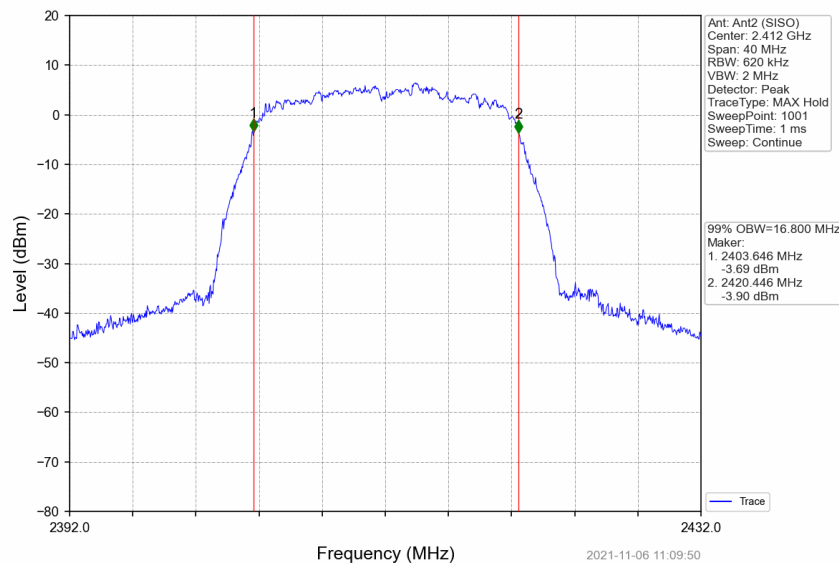
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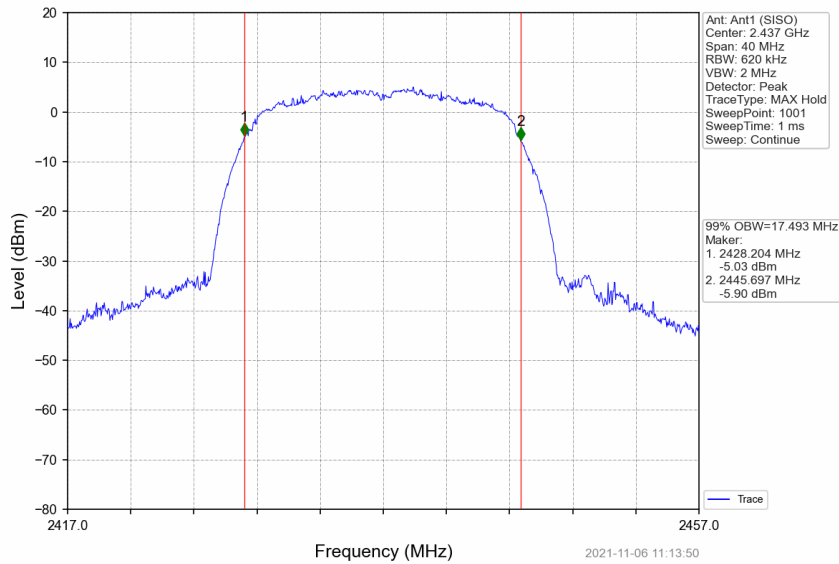
802.11g\_LCH\_2412MHz\_Ant2 (SISO) NTN



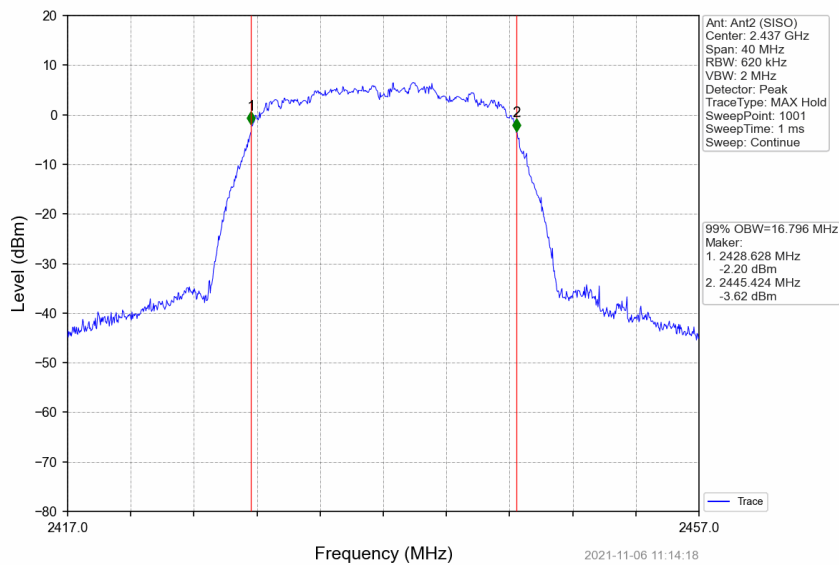
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802.11g MCH 2437MHz Ant1 (SISO) NTVN



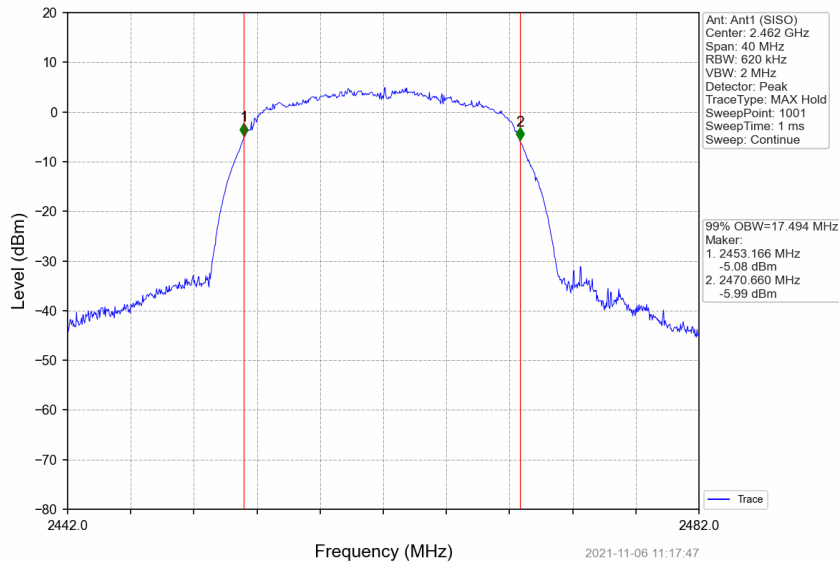
802.11g MCH 2437MHz Ant2 (SISO) NTVN



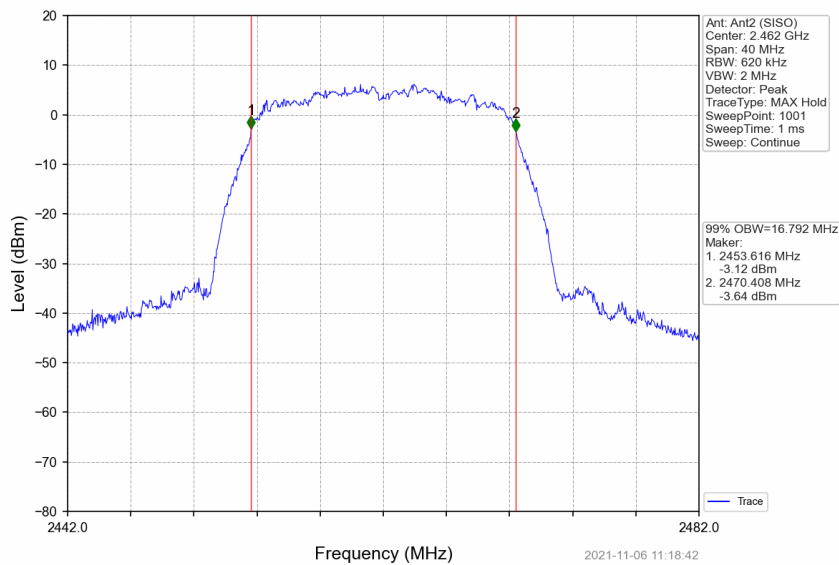
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802.11g HCH 2462MHz Ant1 (SISO) NTN



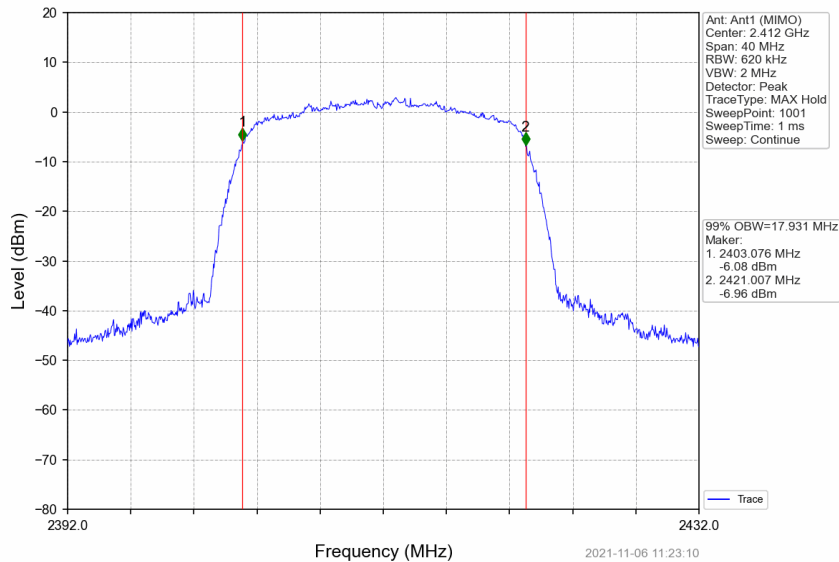
802.11g HCH 2462MHz Ant2 (SISO) NTN



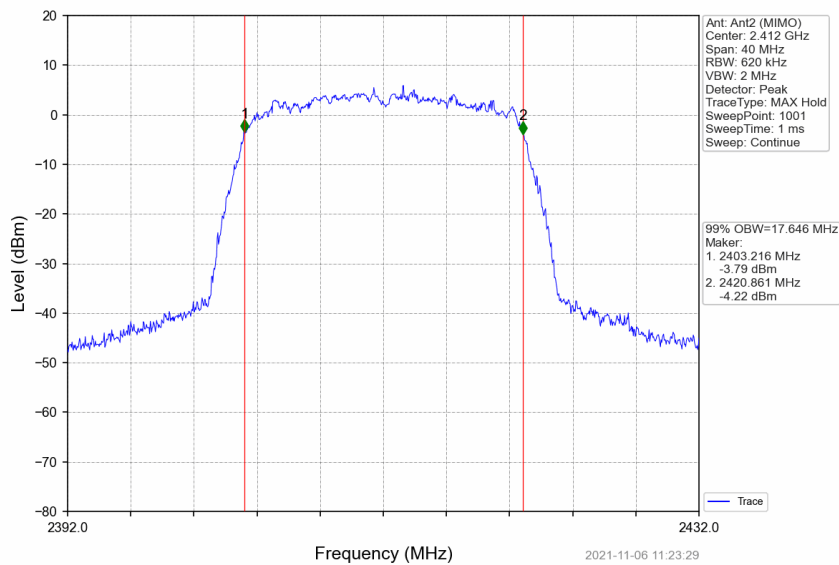
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTV



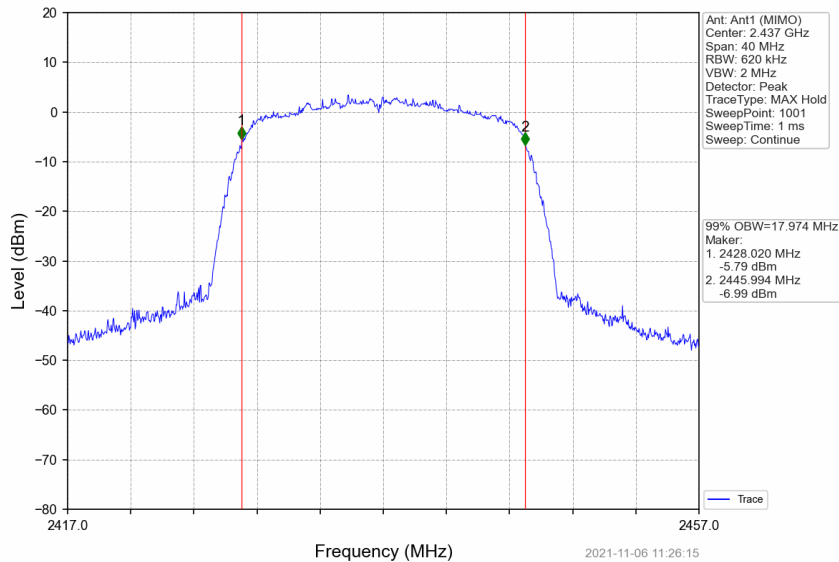
802.11n(HT20) LCH 2412MHz Ant2 (MIMO) NTV



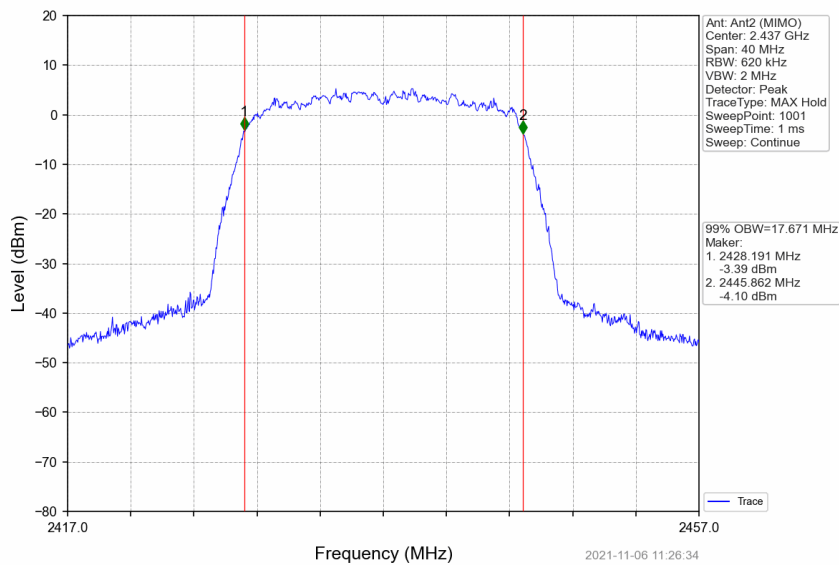
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTN



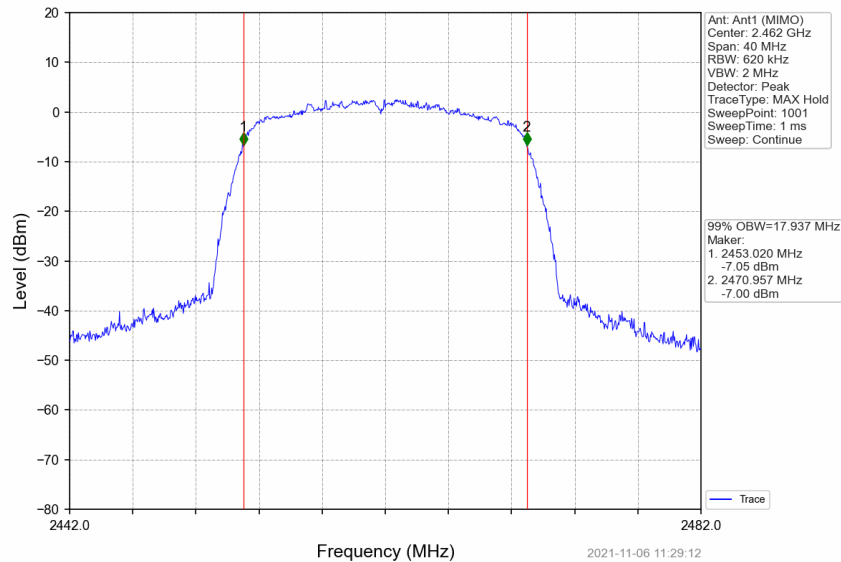
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTN



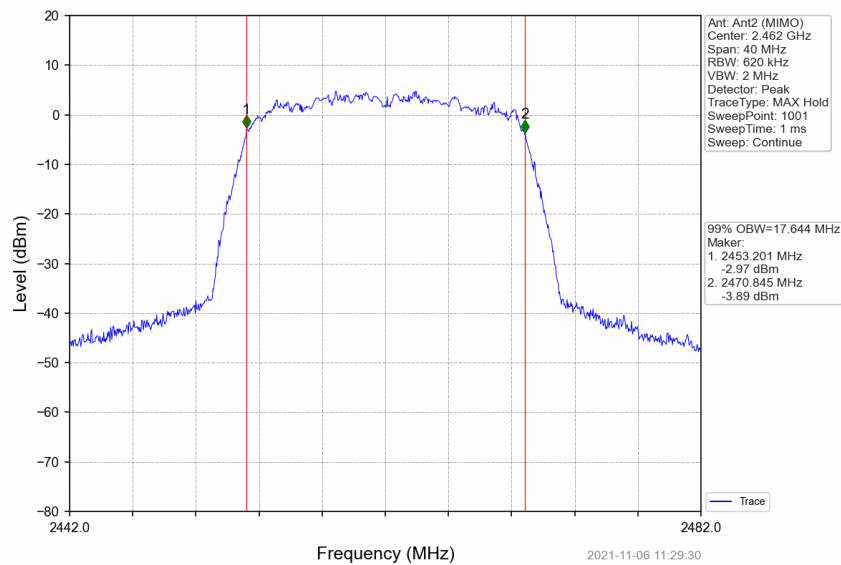
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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2.2 6dB BW

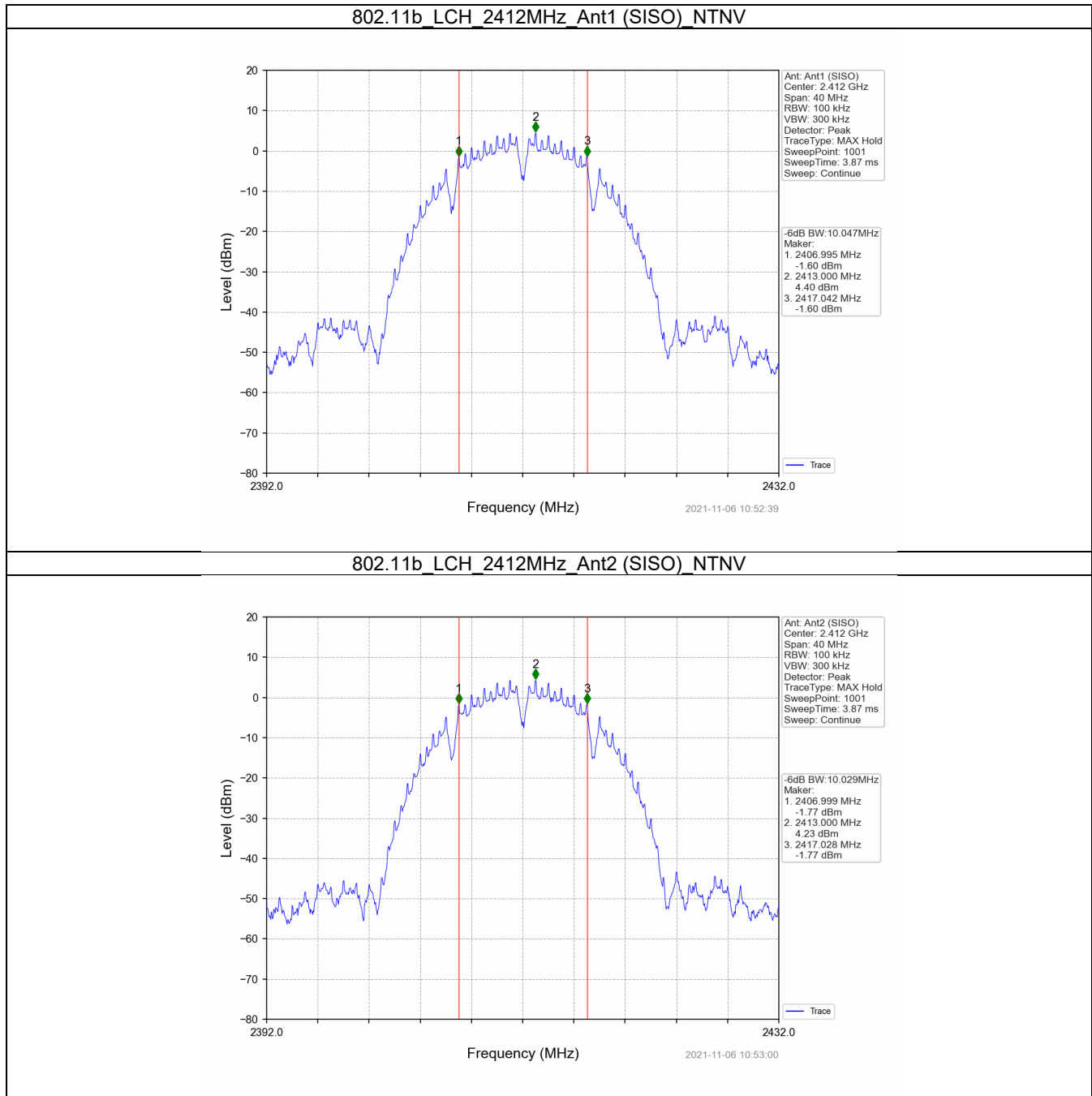
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.047	>=0.5	Pass
			2	10.029	>=0.5	Pass
		2437	1	10.051	>=0.5	Pass
			2	10.021	>=0.5	Pass
		2462	1	9.091	>=0.5	Pass
			2	10.021	>=0.5	Pass
802.11g	SISO	2412	1	15.124	>=0.5	Pass
			2	15.154	>=0.5	Pass
		2437	1	15.127	>=0.5	Pass
			2	15.144	>=0.5	Pass
		2462	1	15.136	>=0.5	Pass
			2	15.155	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.124	>=0.5	Pass
			2	15.140	>=0.5	Pass
		2437	1	15.103	>=0.5	Pass
			2	15.151	>=0.5	Pass
		2462	1	15.129	>=0.5	Pass
			2	15.131	>=0.5	Pass



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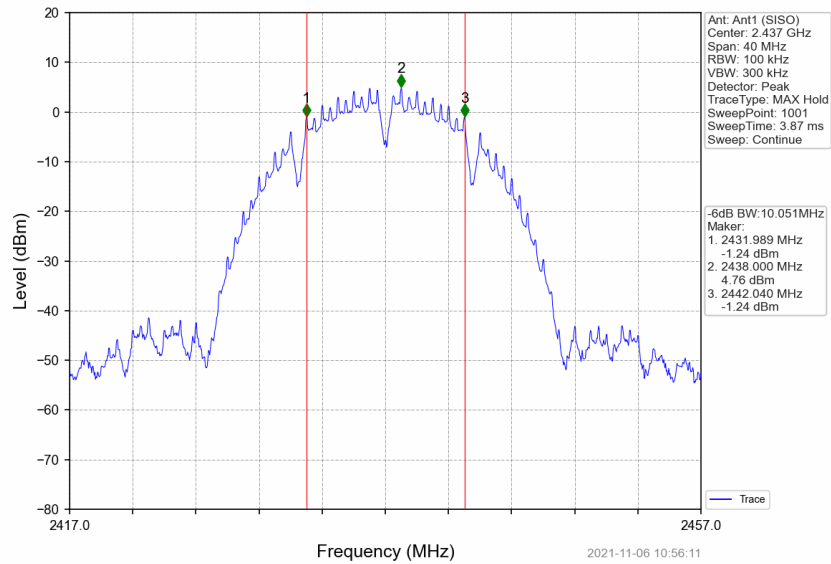
2.2.2 Test Graph



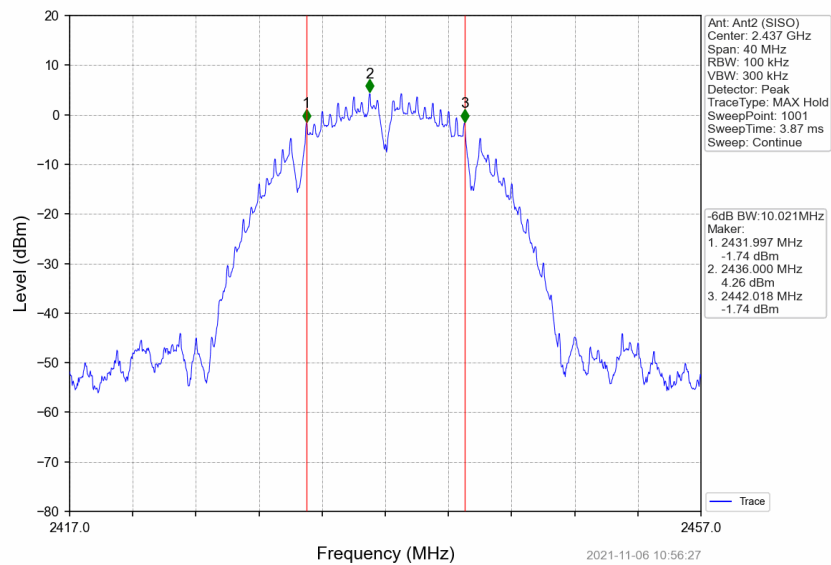
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802.11b MCH 2437MHz Ant1 (SISO) NTVN



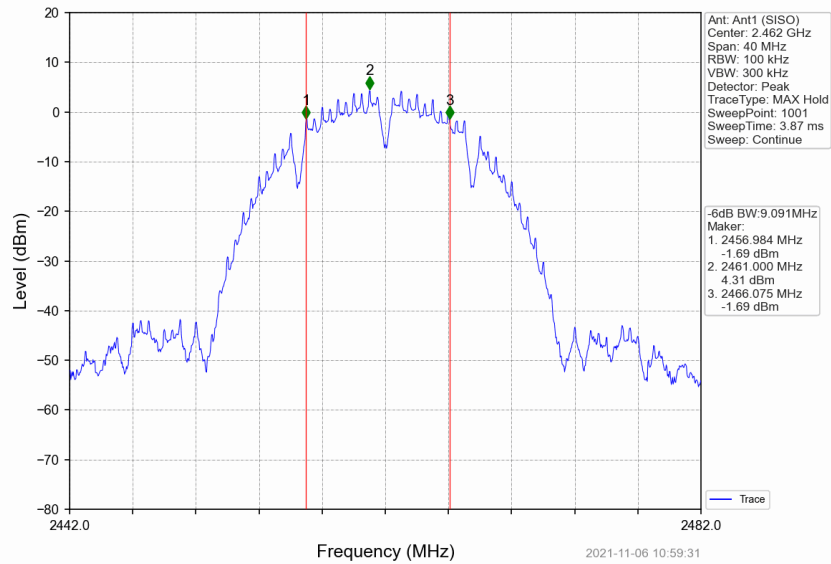
802.11b MCH 2437MHz Ant2 (SISO) NTVN



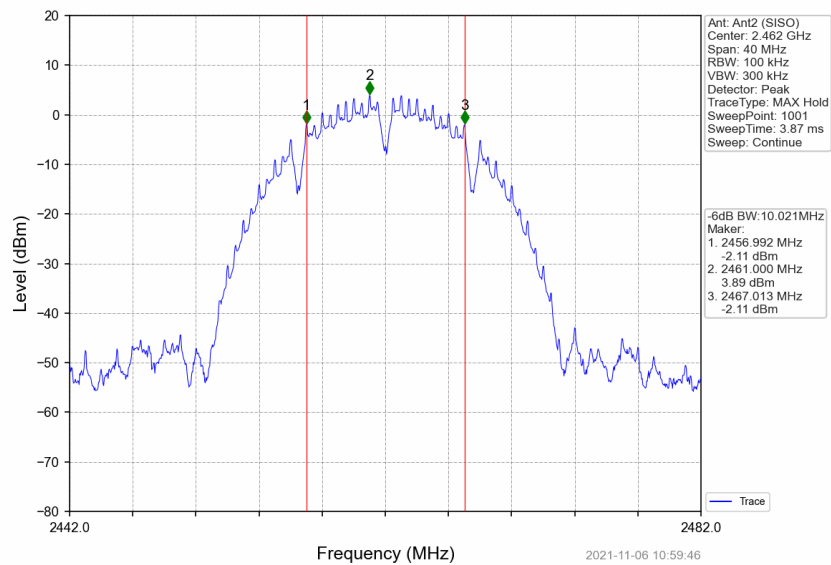
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802.11b HCH 2462MHz Ant1 (SISO) NTN



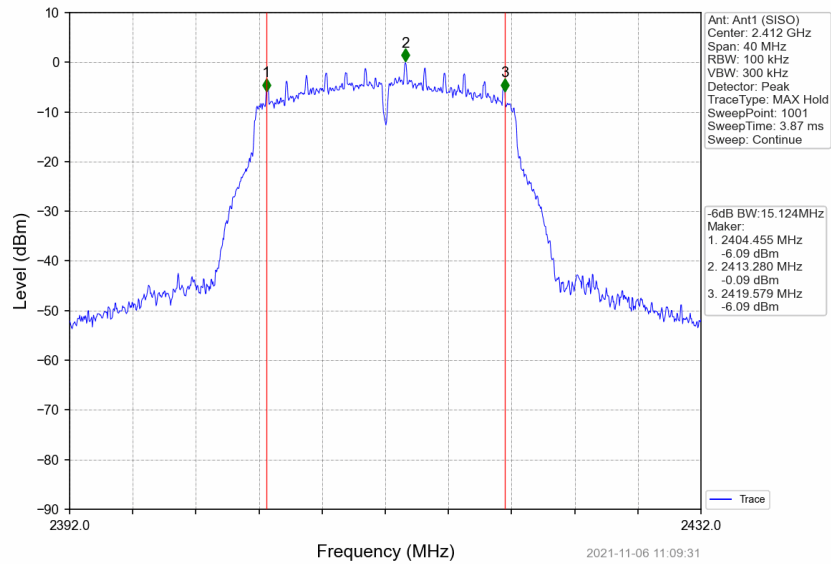
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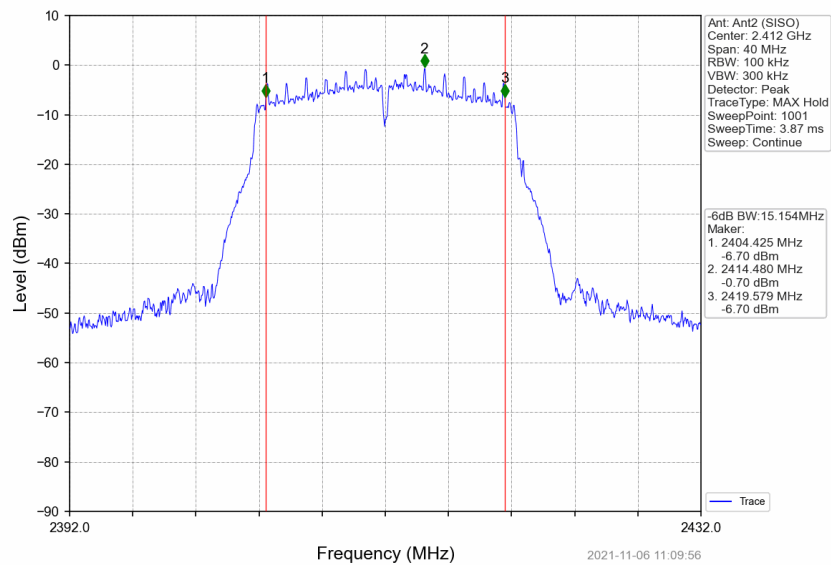
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802.11g LCH 2412MHz Ant1 (SISO) NTN



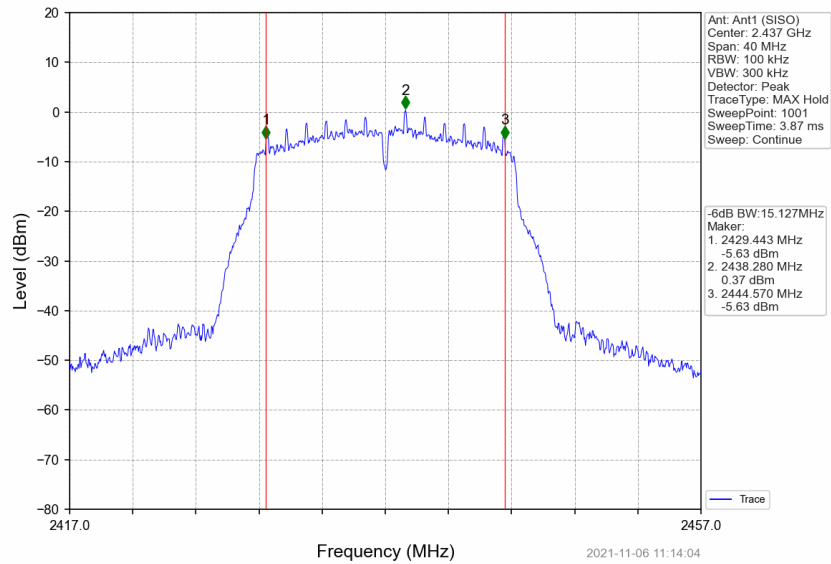
802.11g LCH 2412MHz Ant2 (SISO) NTN



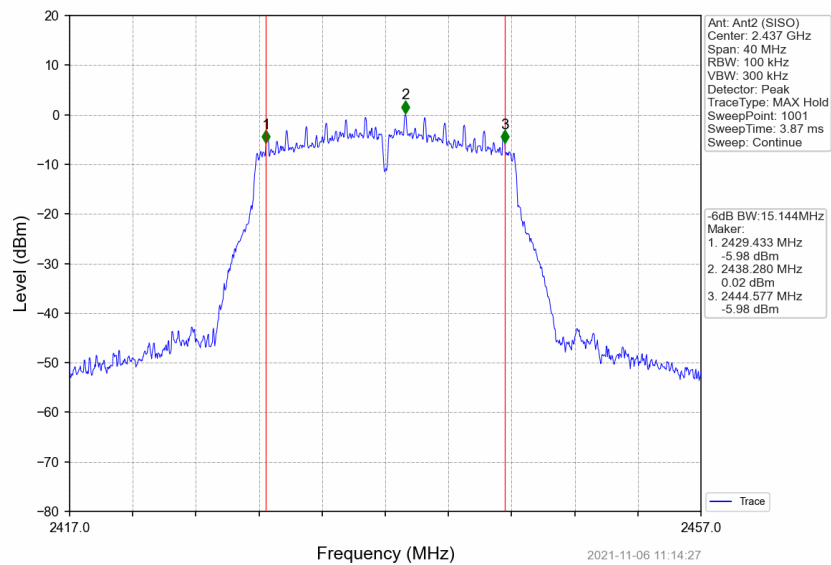
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802.11g MCH 2437MHz Ant1 (SISO) NTV



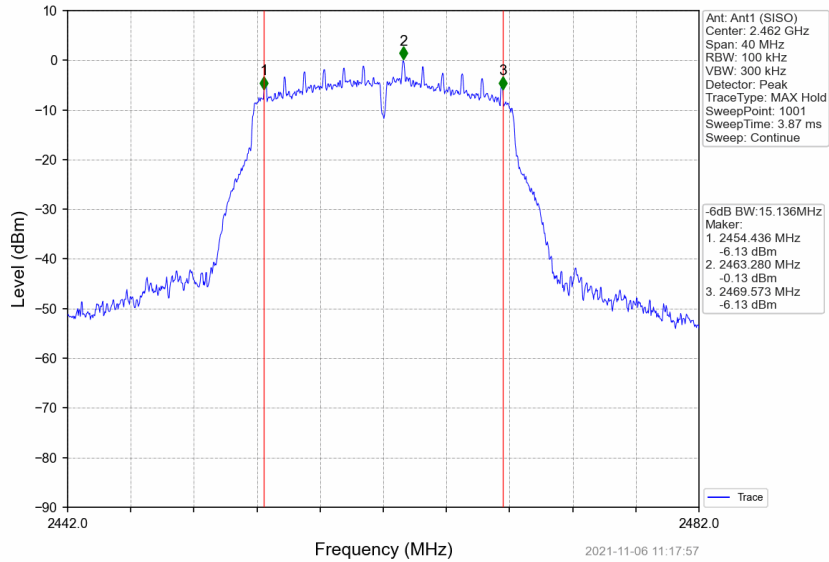
802.11g MCH 2437MHz Ant2 (SISO) NTV



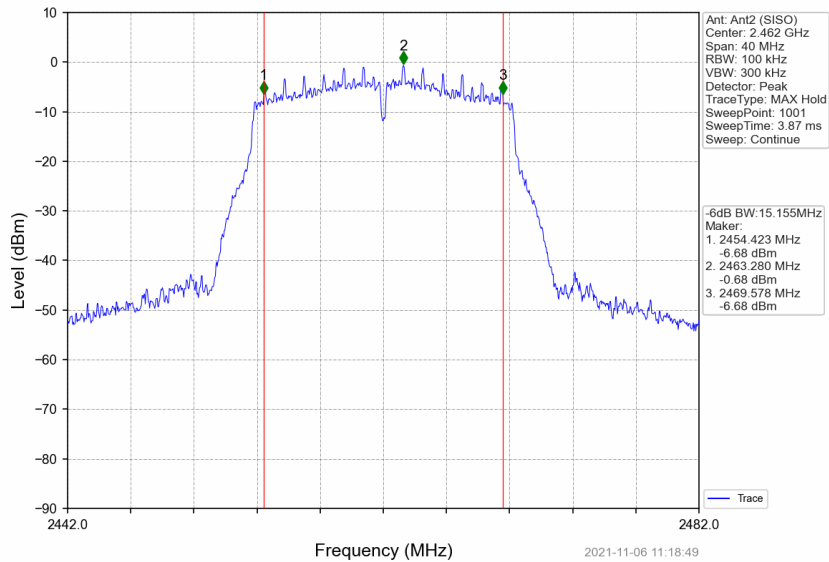
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802.11g HCH 2462MHz Ant1 (SISO) NTN



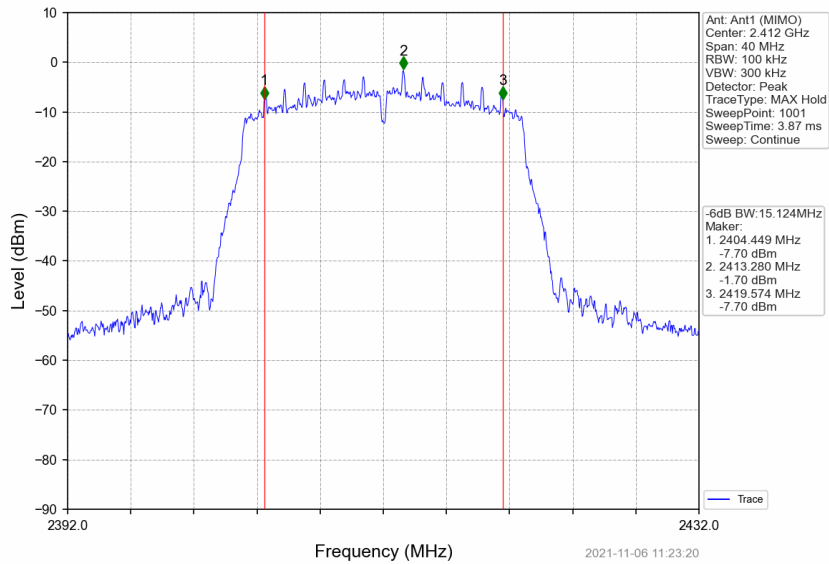
802.11g HCH 2462MHz Ant2 (SISO) NTN



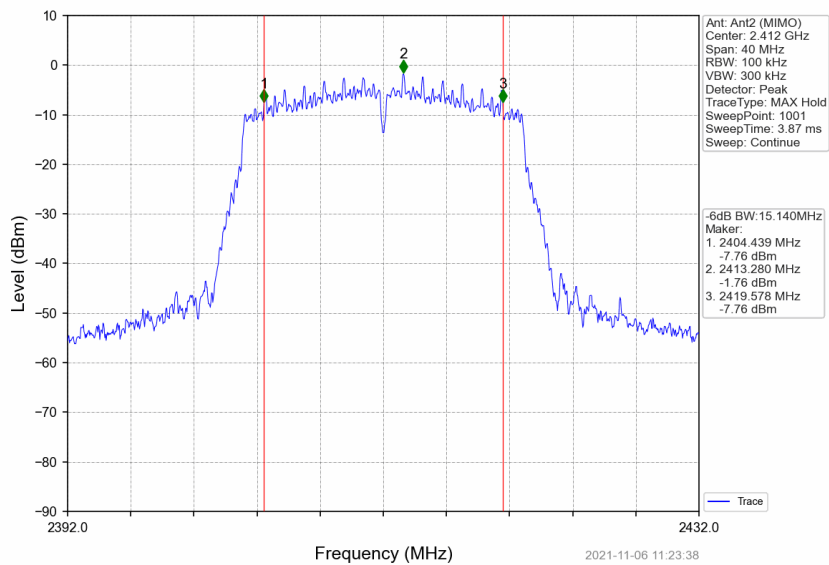
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO) NTN



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO) NTN

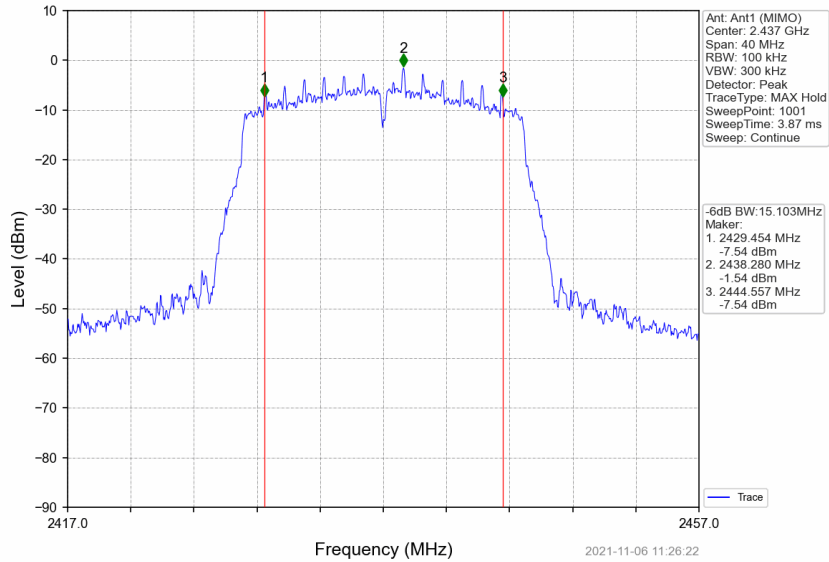


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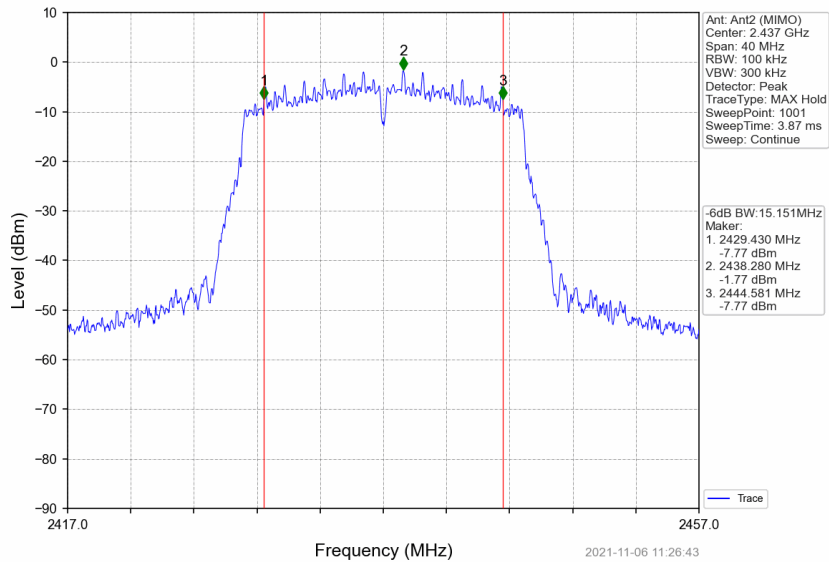
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTVN



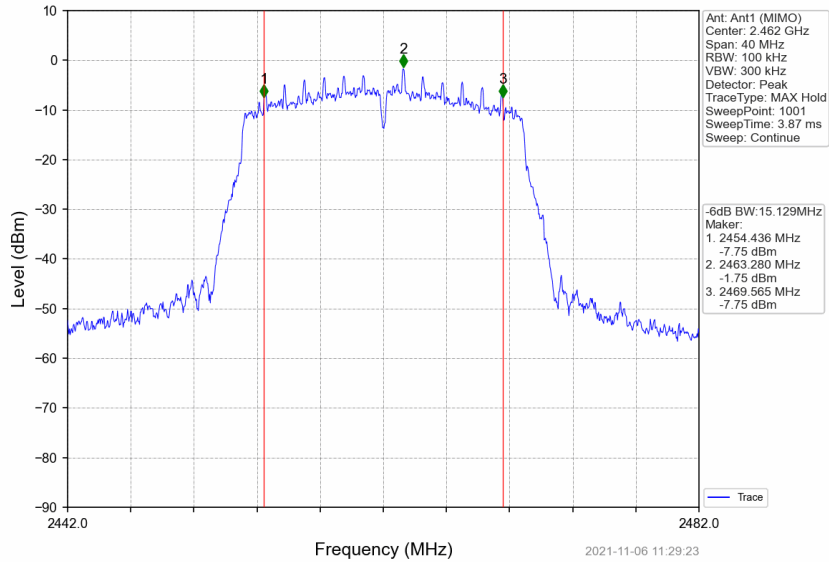
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTVN



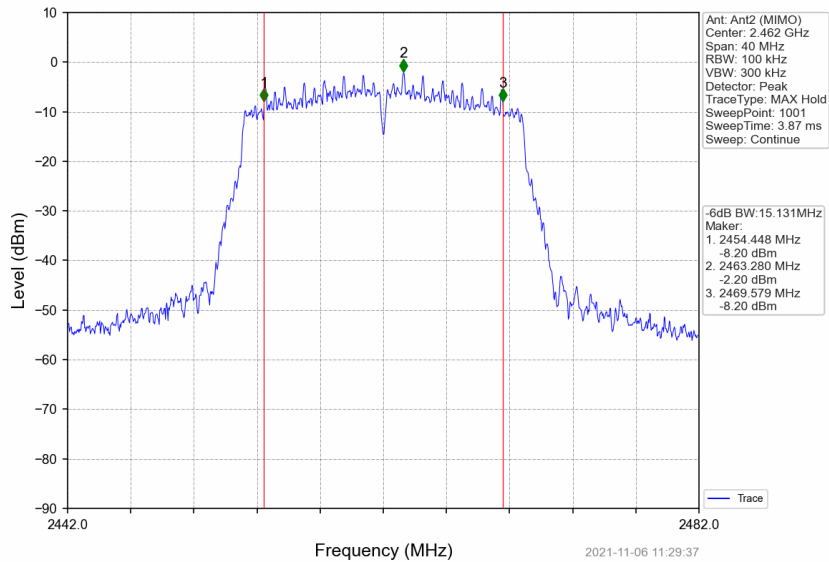
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	15.53	15.35	/	<=30	Pass
		2437	15.92	15.36	/	<=30	Pass
		2462	15.46	15.00	/	<=30	Pass
802.11g	SISO	2412	17.09	17.57	/	<=30	Pass
		2437	17.29	17.76	/	<=30	Pass
		2462	17.01	17.33	/	<=30	Pass
802.11n (HT20)	MIMO	2412	15.17	16.32	18.79	<=29.99	Pass
		2437	15.29	16.47	18.93	<=29.99	Pass
		2462	15.10	16.02	18.59	<=29.99	Pass

Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 3.00dBi;  
 Note2: Directional Gain: 6.01dBi

### 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	MIMO	Limit	
802.11b	SISO	2412	-1.63	-11.06	/	<=8	Pass
		2437	2.84	-4.89	/	<=8	Pass
		2462	-11.07	-4.69	/	<=8	Pass
802.11g	SISO	2412	-16.47	-16.33	/	<=8	Pass
		2437	-15.50	-16.07	/	<=8	Pass
		2462	-15.72	-16.16	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-17.60	-16.74	-15.15	<=7.99	Pass
		2437	-17.18	-17.06	-14.75	<=7.99	Pass
		2462	-17.67	-17.06	-15.07	<=7.99	Pass

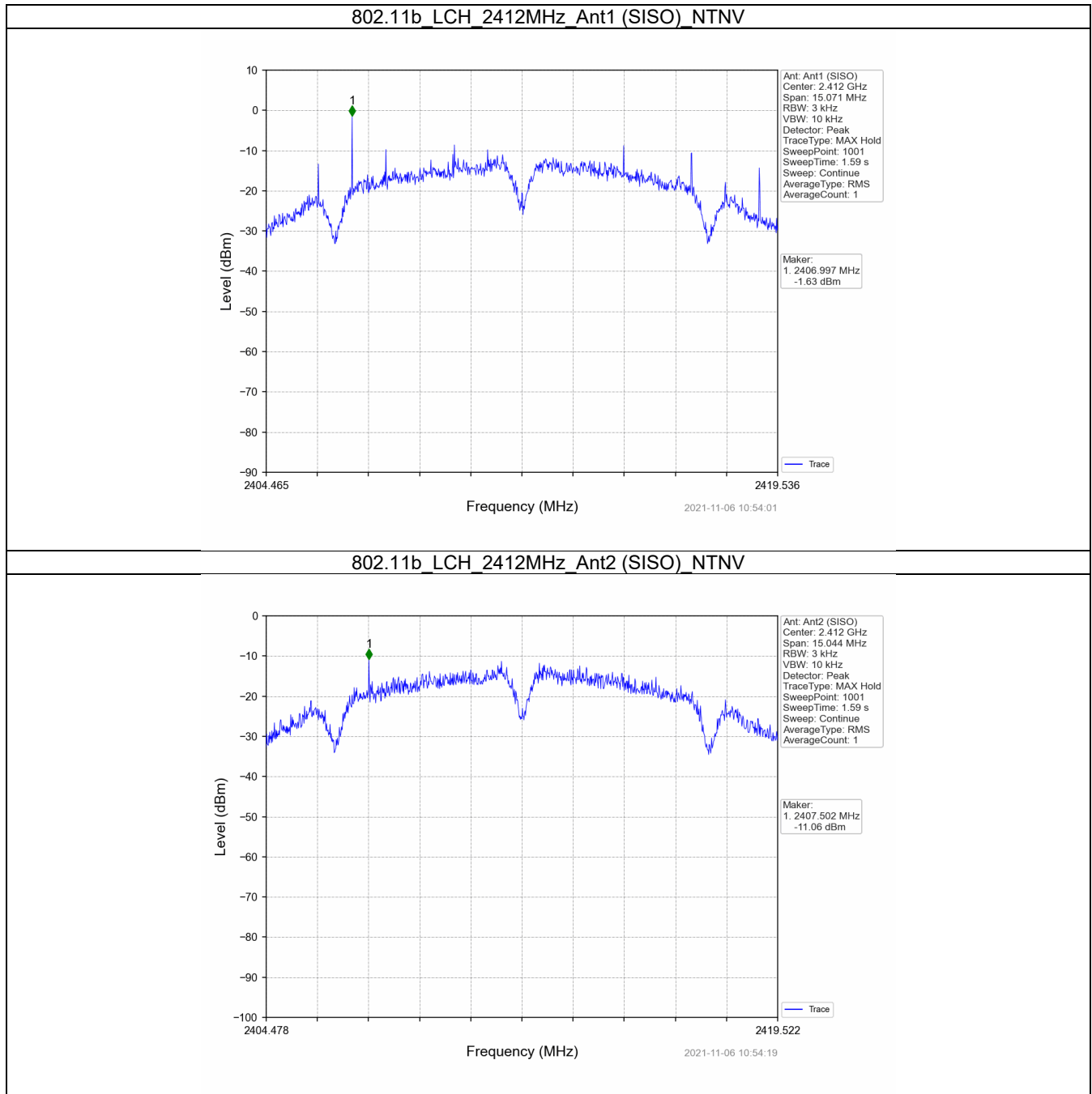
Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 3.00dBi;



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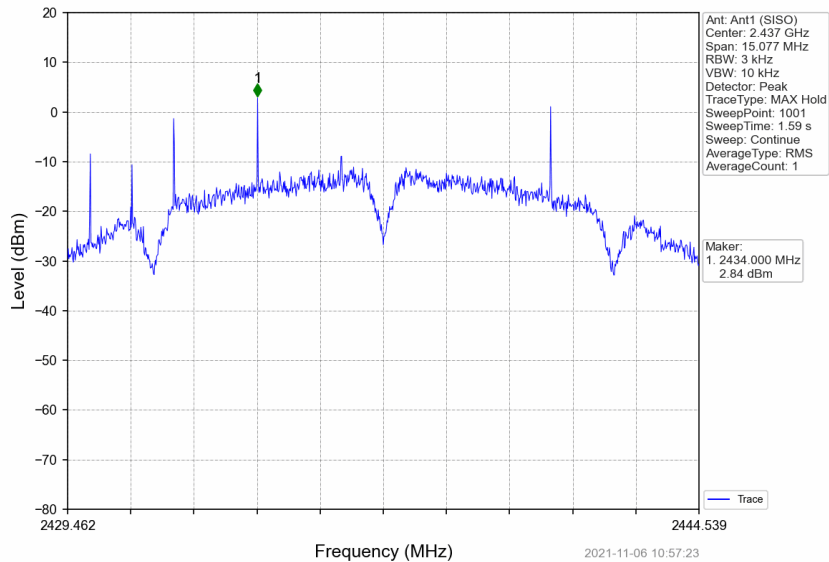
4.1.2 Test Graph



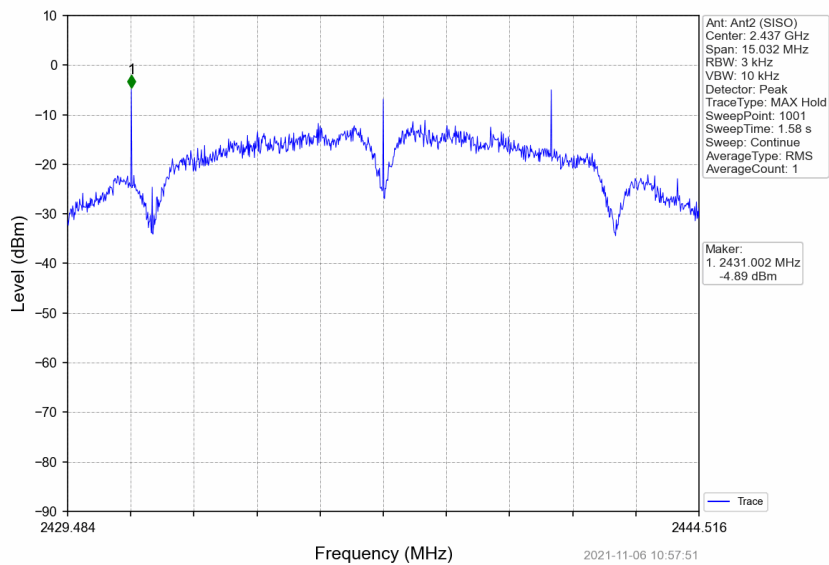
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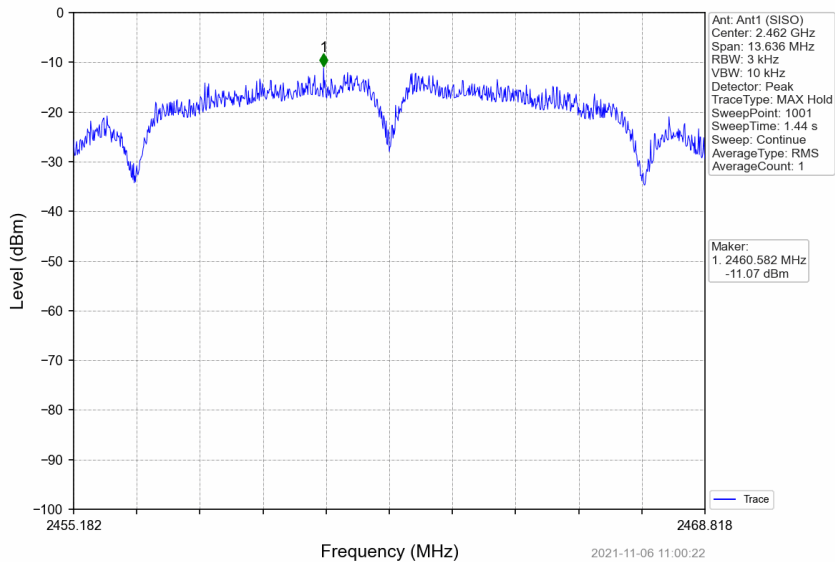
802.11b MCH 2437MHz Ant2 (SISO) NTN



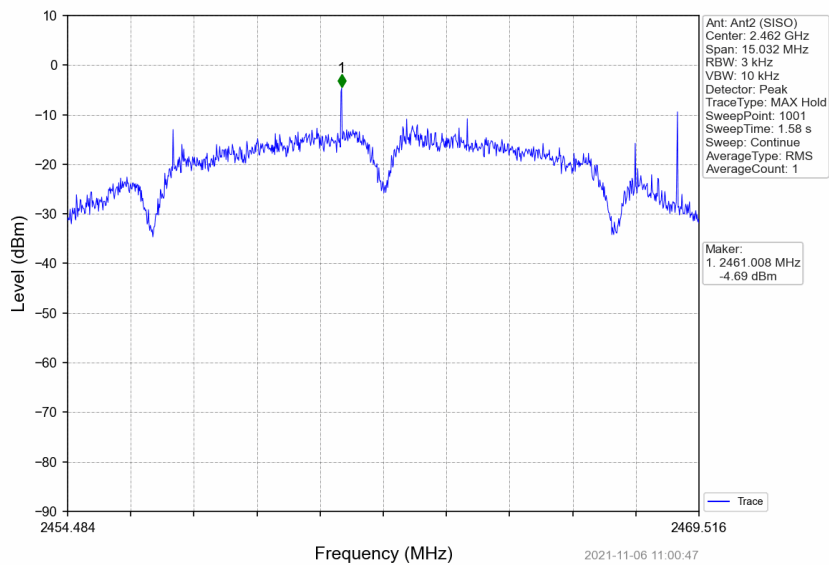
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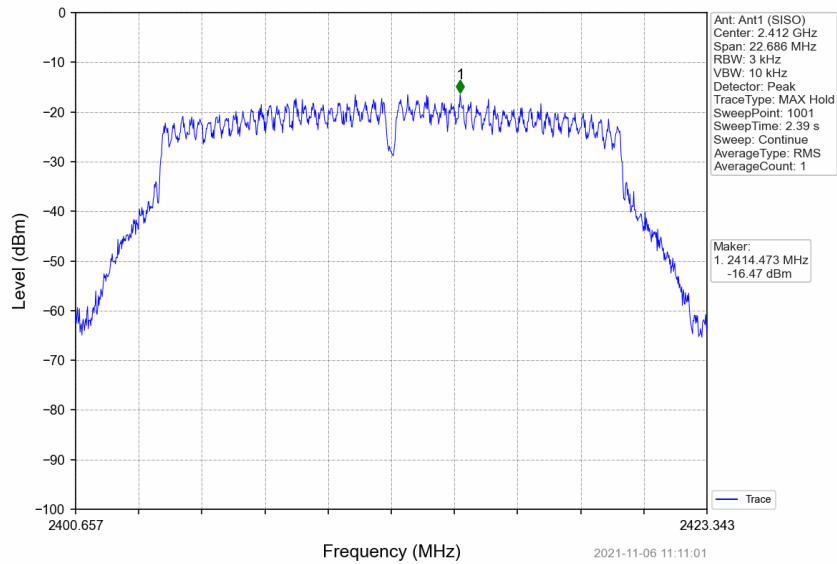
802.11b HCH 2462MHz Ant2 (SISO) NTN



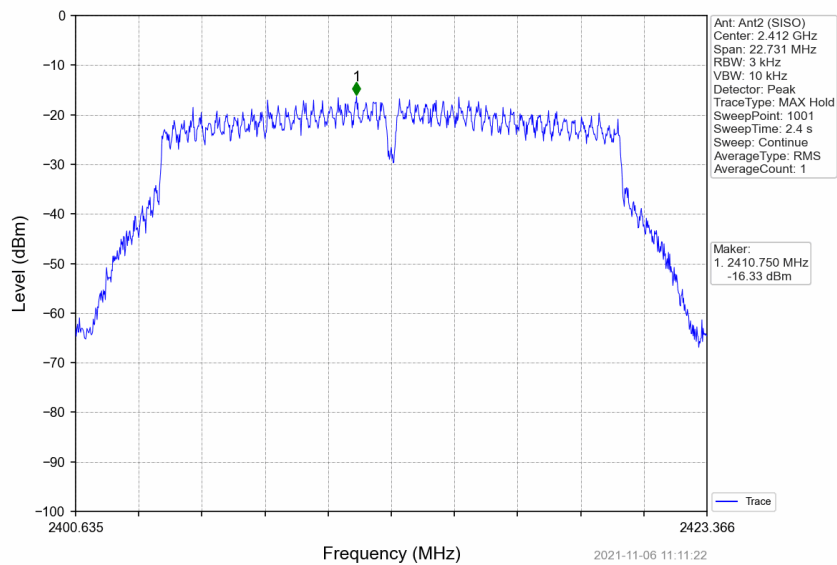
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802.11g\_LCH\_2412MHz\_Ant1 (SISO) NTN



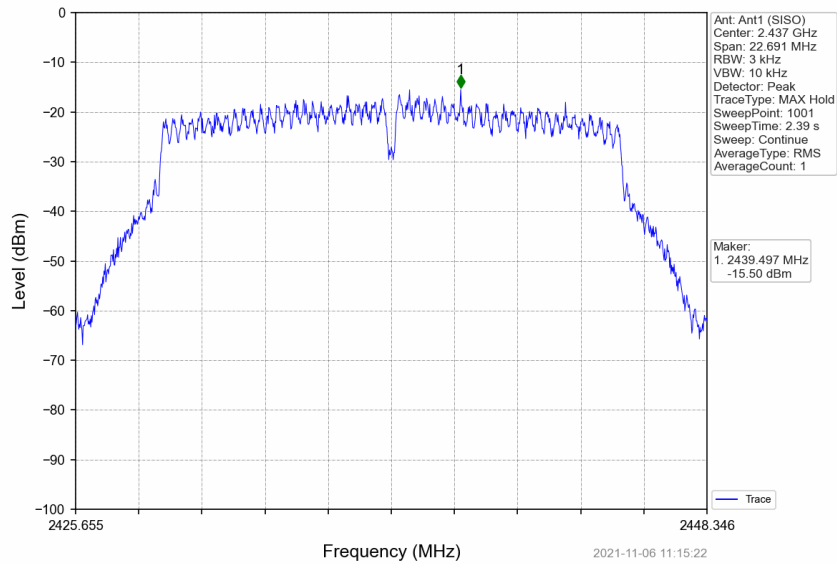
802.11g\_LCH\_2412MHz\_Ant2 (SISO) NTN



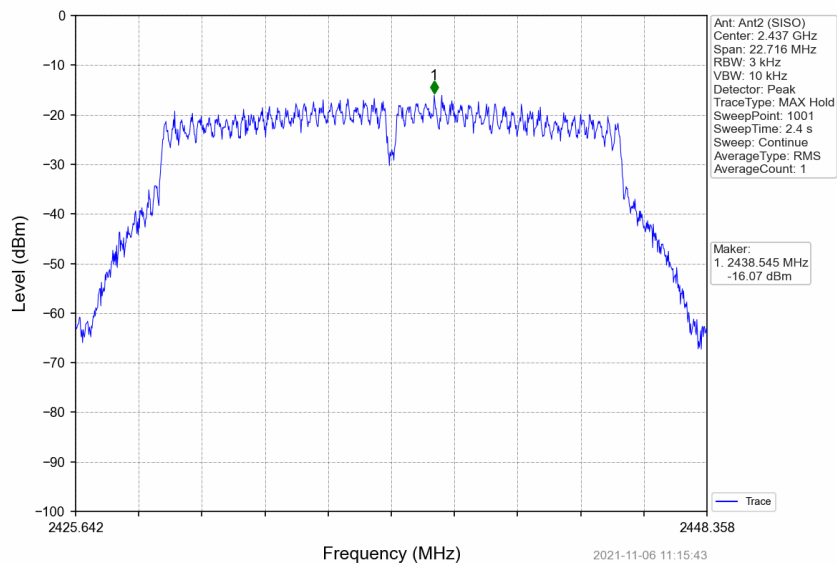
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802.11g MCH 2437MHz Ant1 (SISO) NTVN



802.11g MCH 2437MHz Ant2 (SISO) NTVN

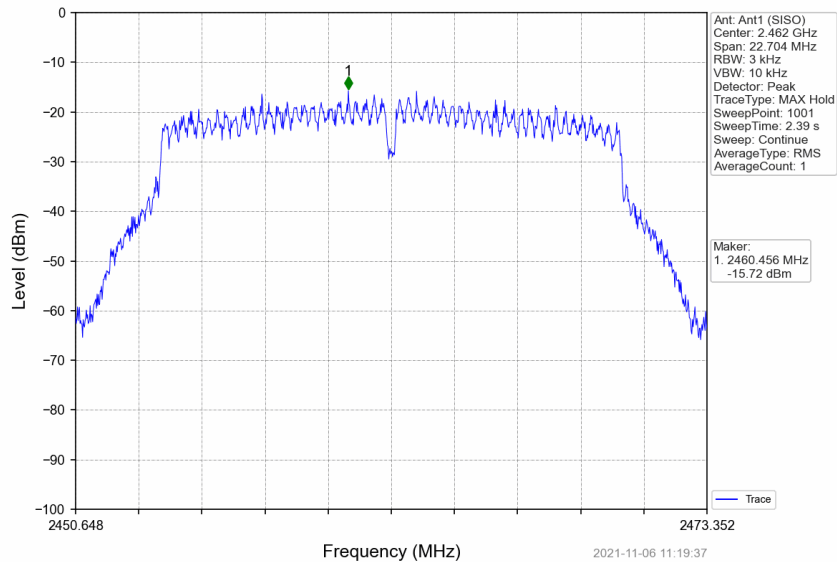


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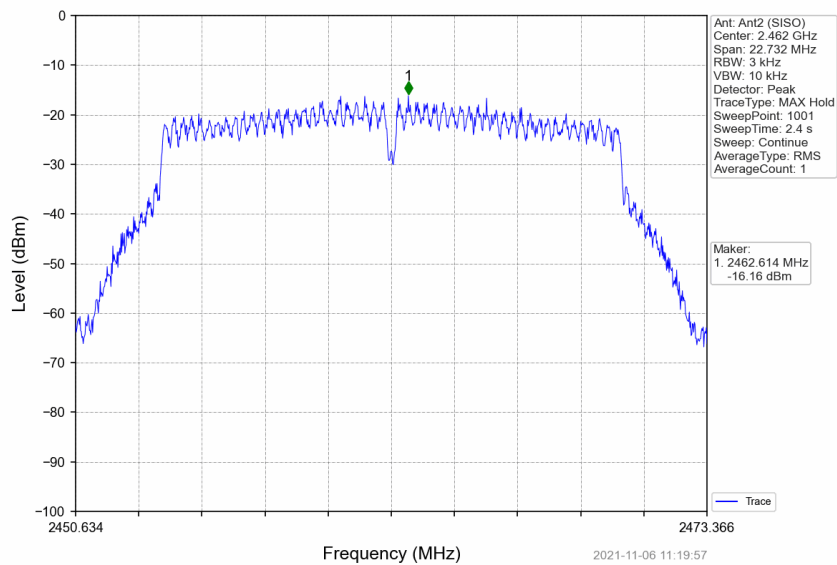
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802.11g HCH 2462MHz Ant1 (SISO) NTN



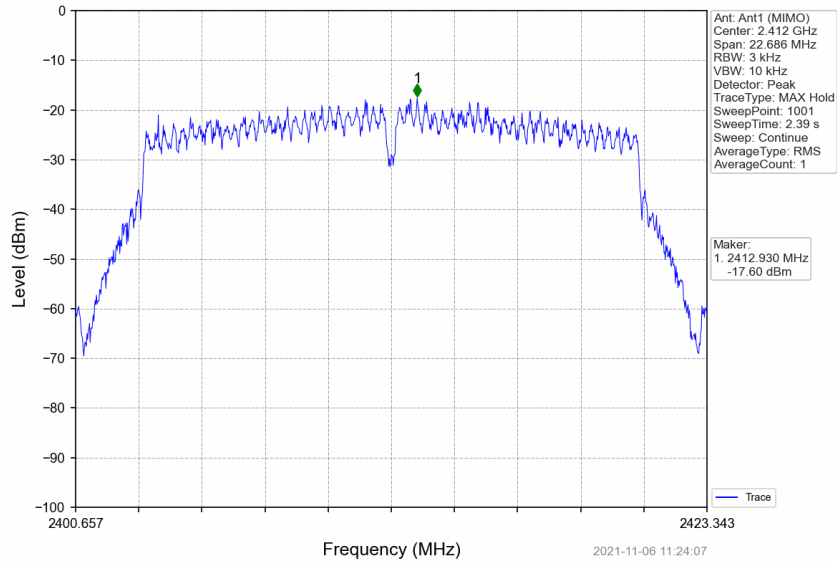
802.11g HCH 2462MHz Ant2 (SISO) NTN



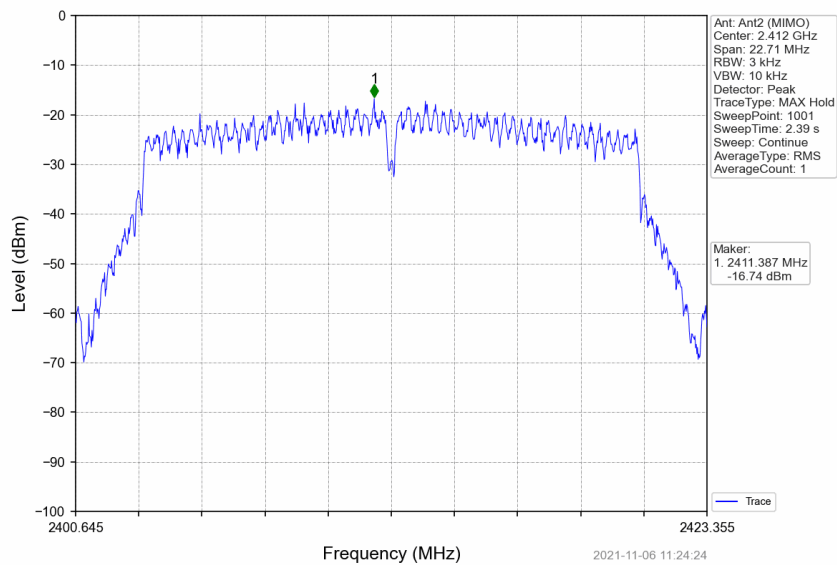
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO) NTN



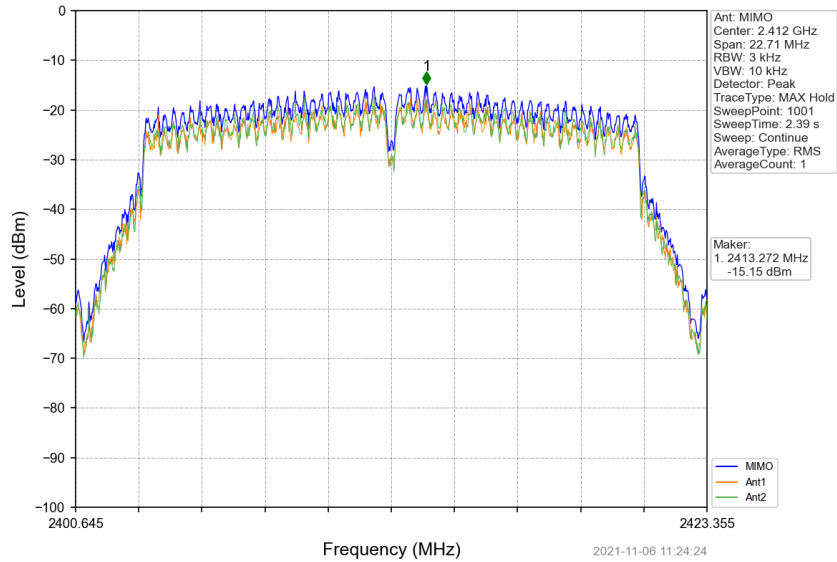
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO) NTN



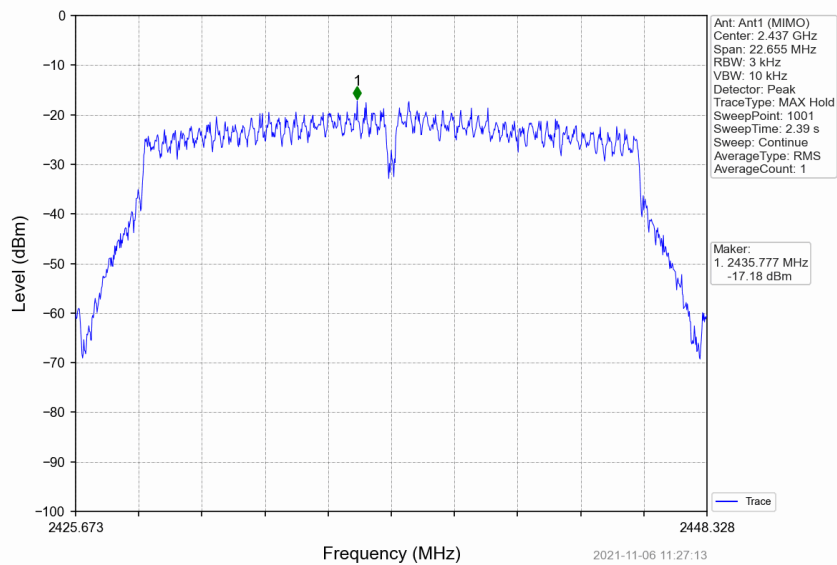
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802.11n(HT20) LCH 2412MHz MIMO NTV



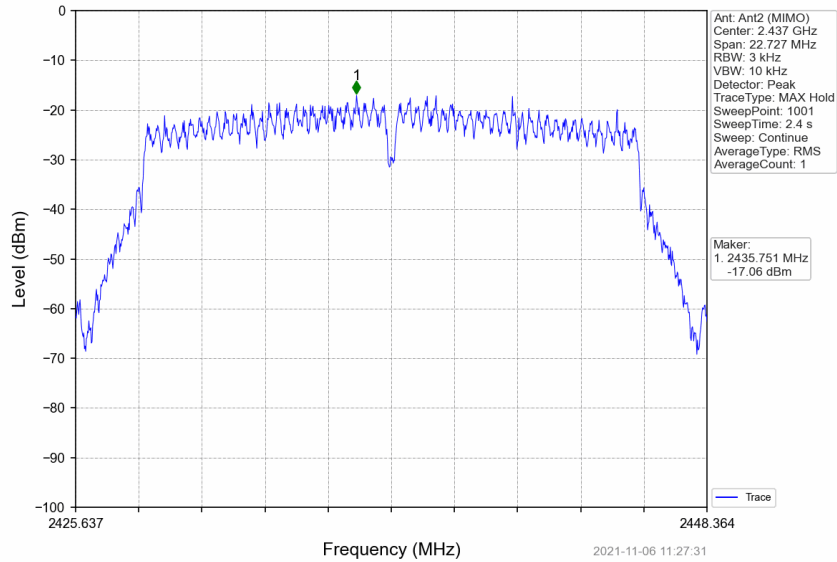
802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTV



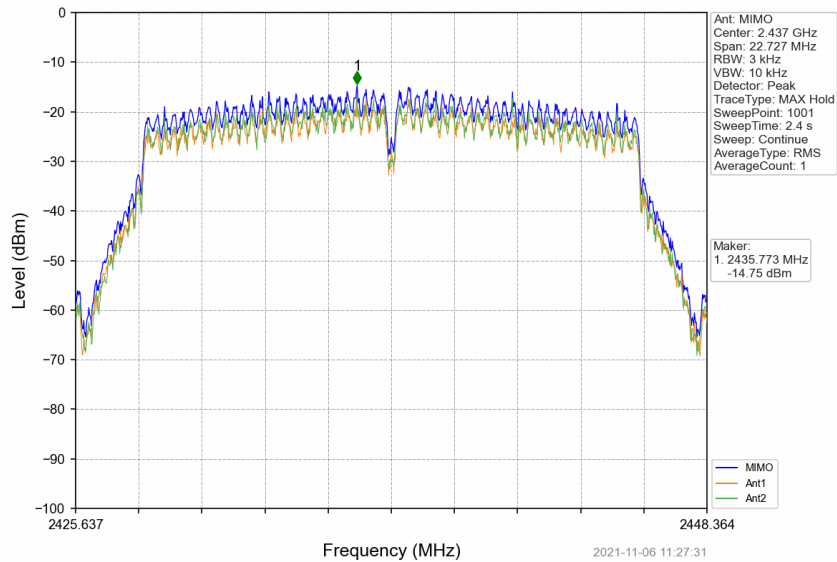
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802.11n(HT20) MCH\_2437MHz Ant2 (MIMO) NTN



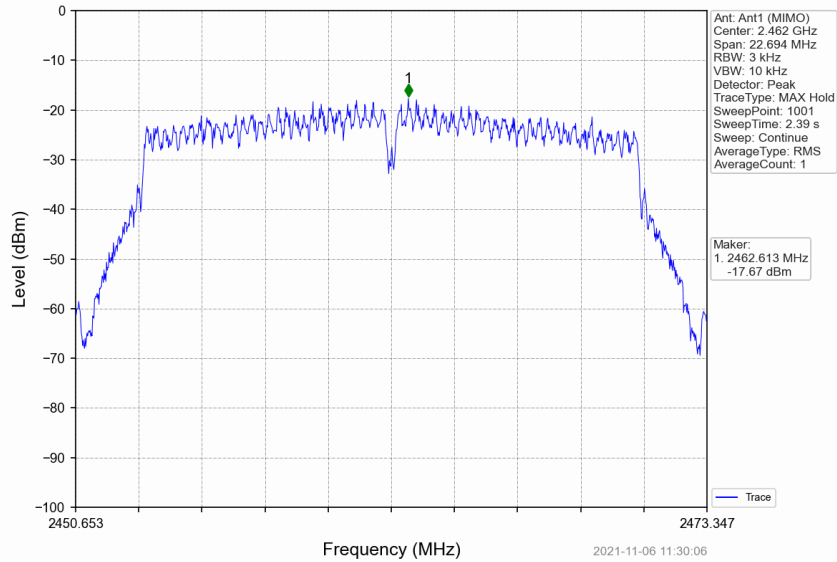
802.11n(HT20) MCH\_2437MHz MIMO NTN



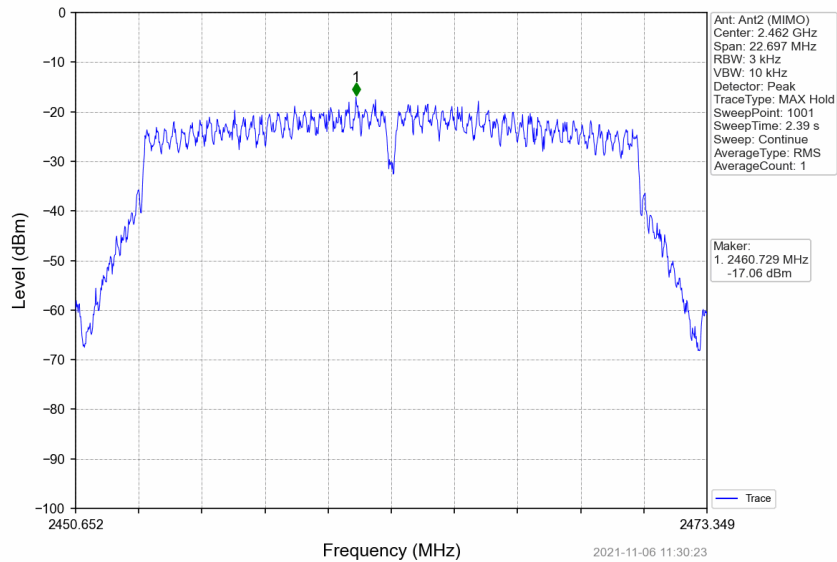
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN

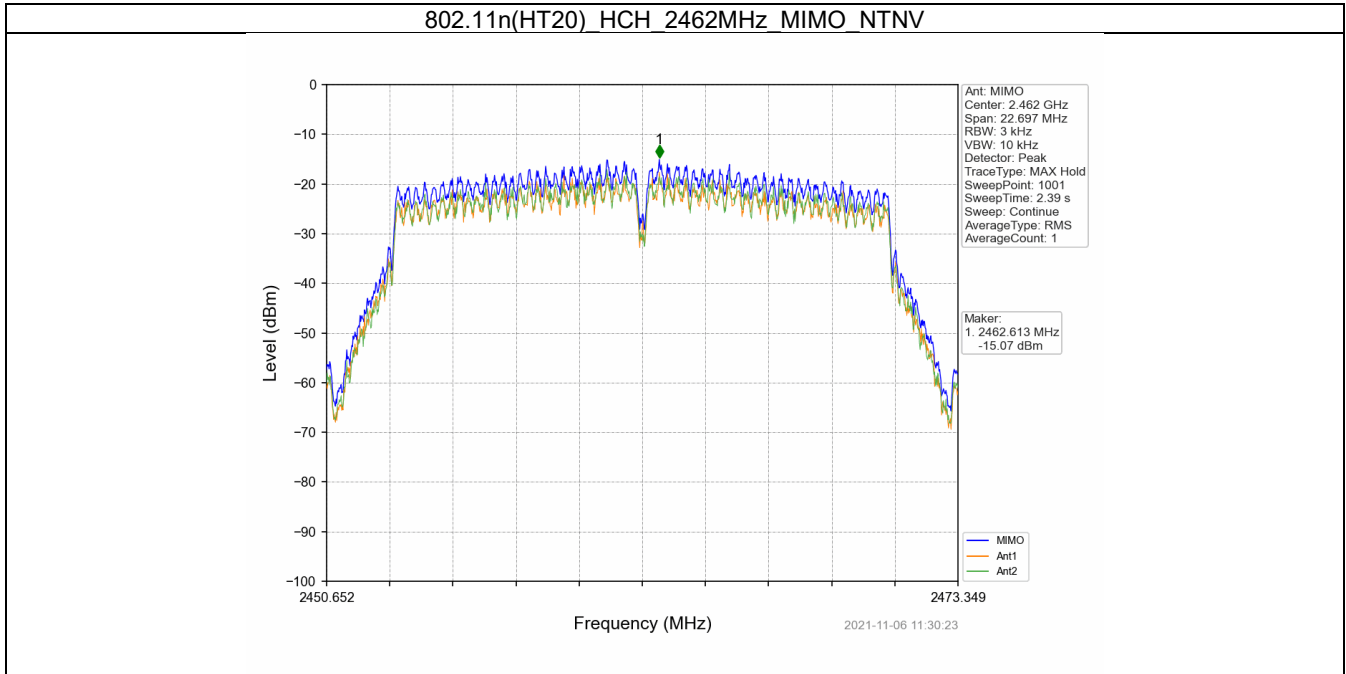


802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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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	4.38
			2	4.18
		2437	1	4.77
			2	4.20
		2462	1	4.53
			2	3.86
802.11g	SISO	2412	1	-0.15
			2	-0.25
		2437	1	-0.27
			2	-0.21
		2462	1	-0.44
			2	-0.60
802.11n (HT20)	MIMO	2412	1	-1.82
			2	-2.11
		2437	1	-1.71
			2	-1.75
		2462	1	-1.95
			2	-2.25

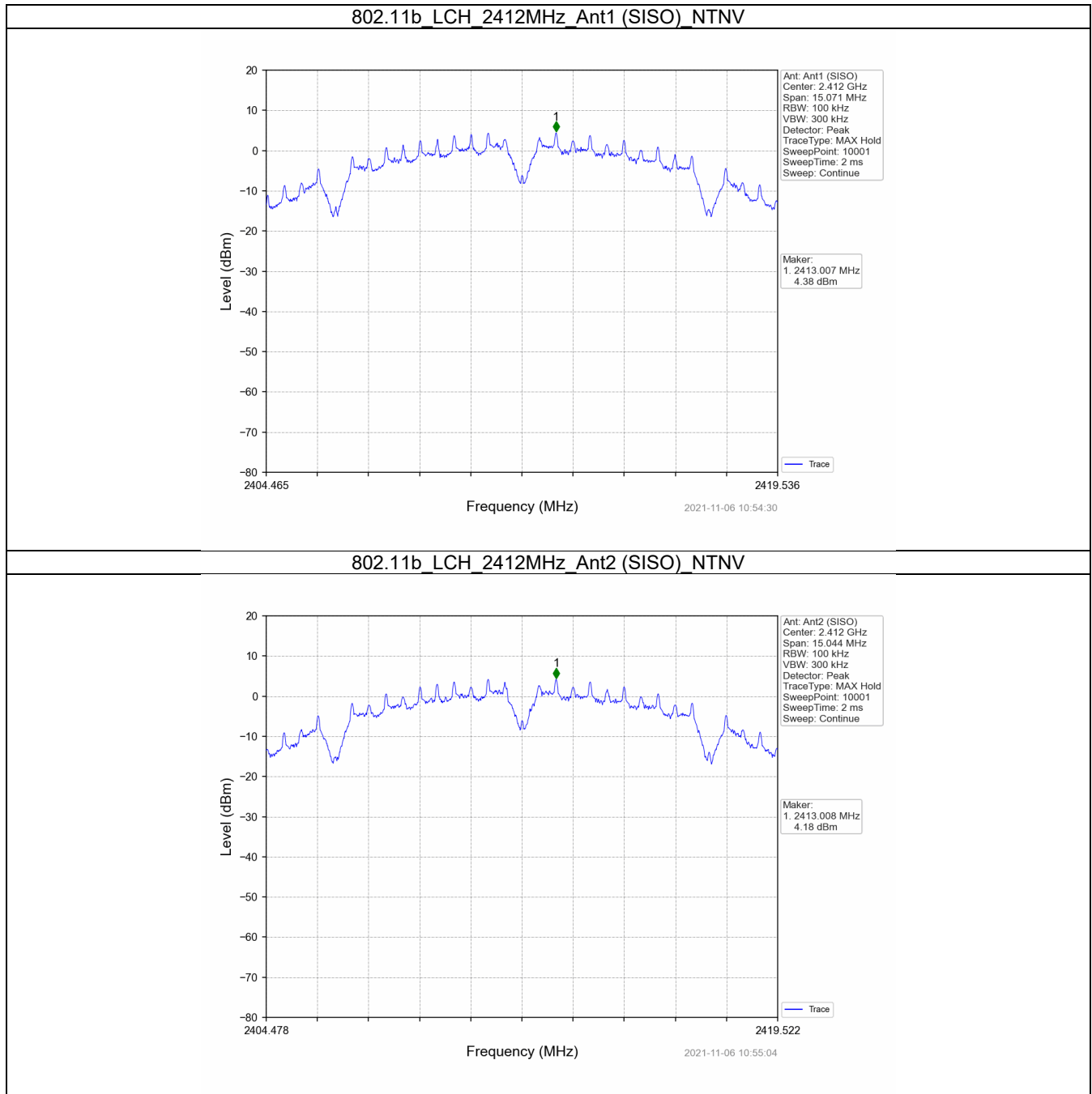
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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5.1.2 Test Graph

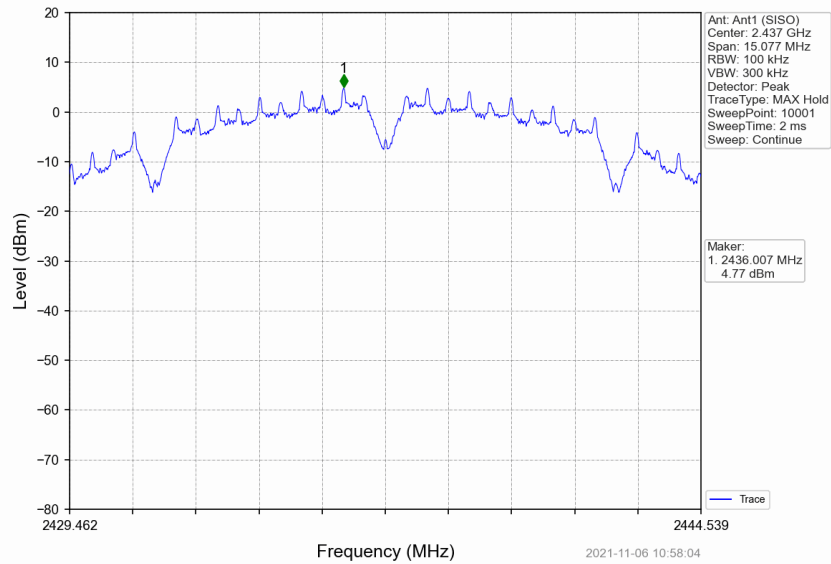


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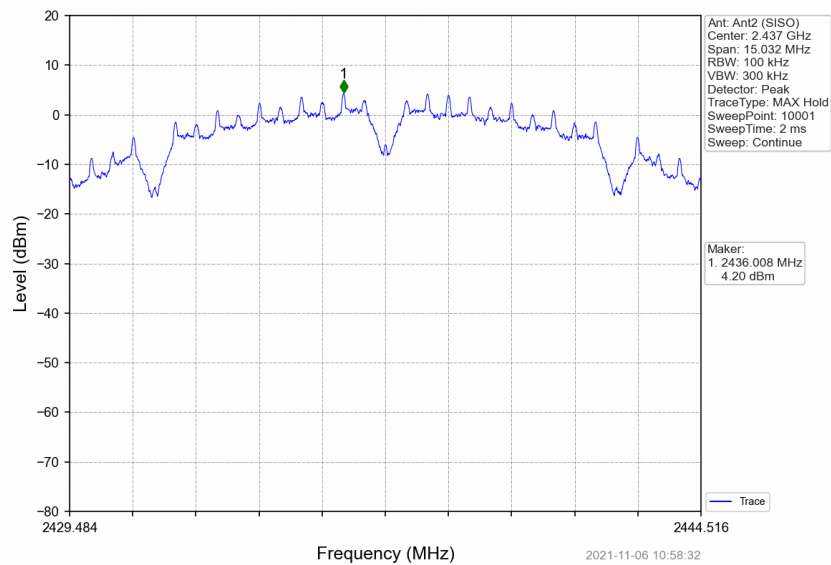
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802.11b MCH 2437MHz Ant1 (SISO) NTN



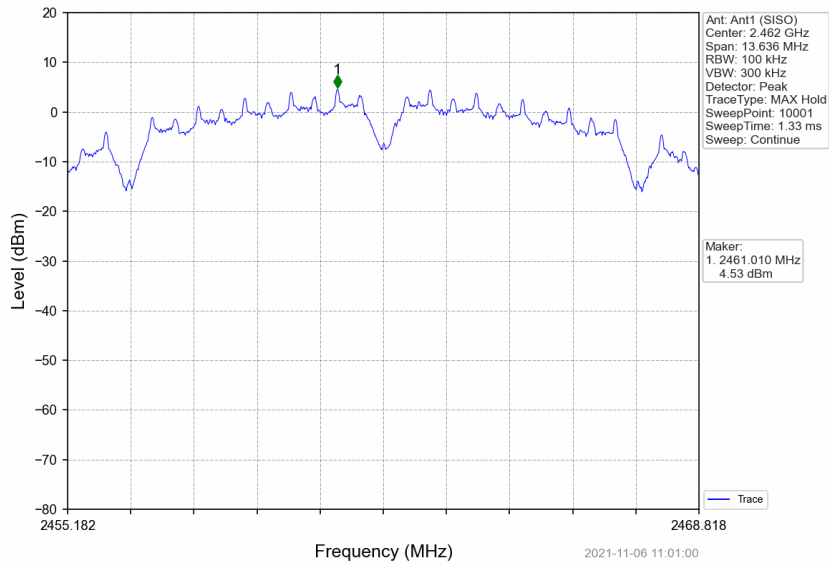
802.11b MCH 2437MHz Ant2 (SISO) NTN



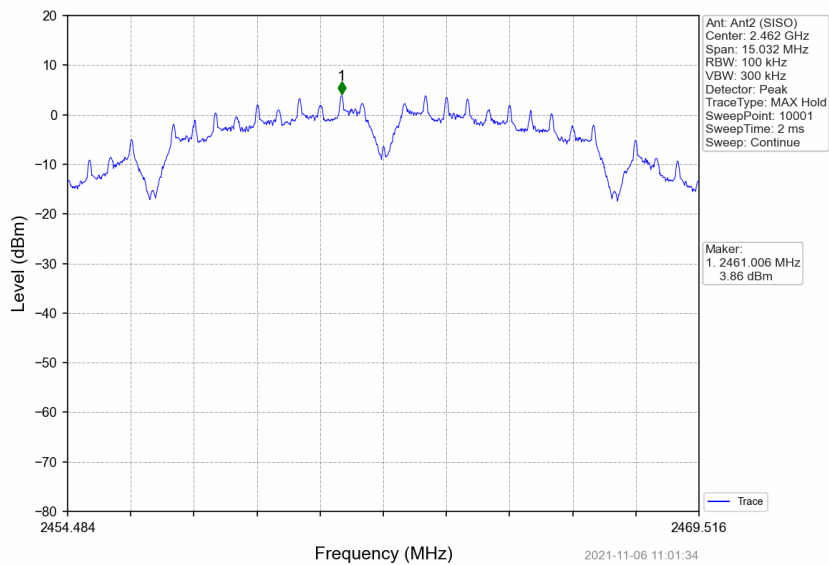
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802.11b HCH 2462MHz Ant1 (SISO) NTN



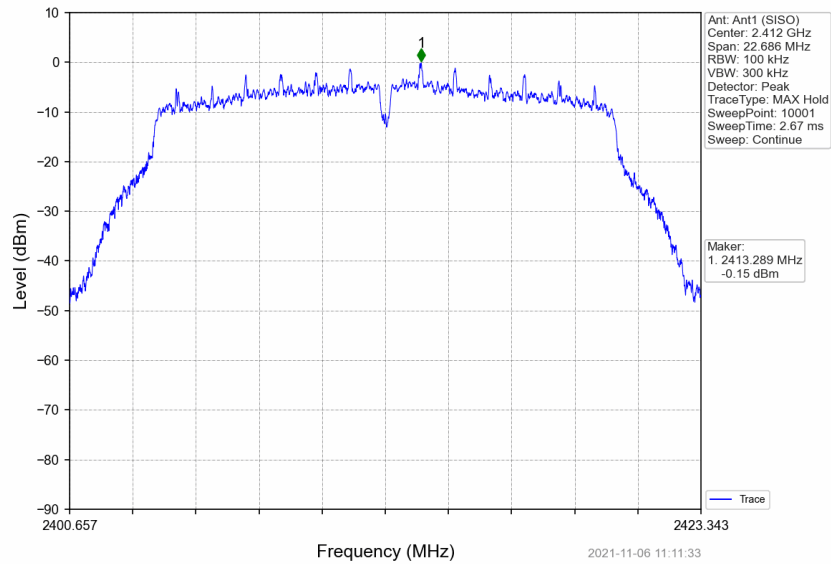
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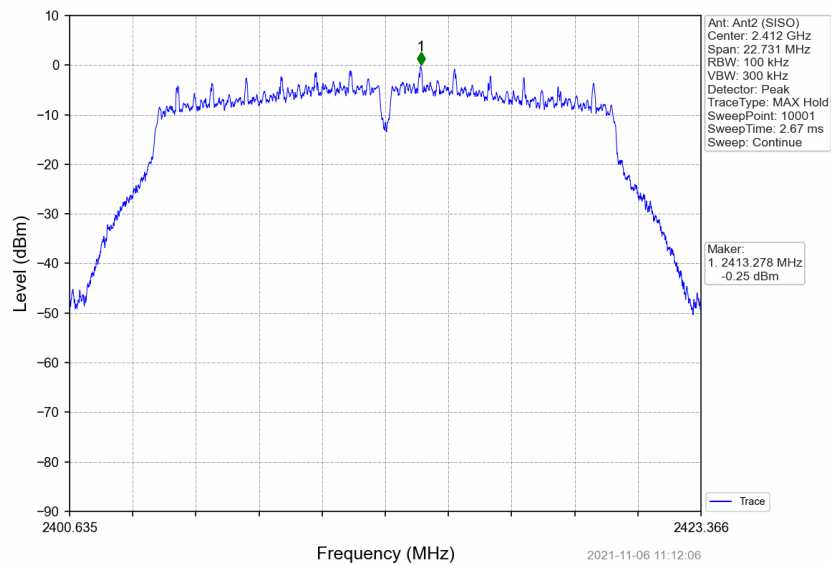
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802.11g\_LCH\_2412MHz\_Ant1 (SISO) NTN



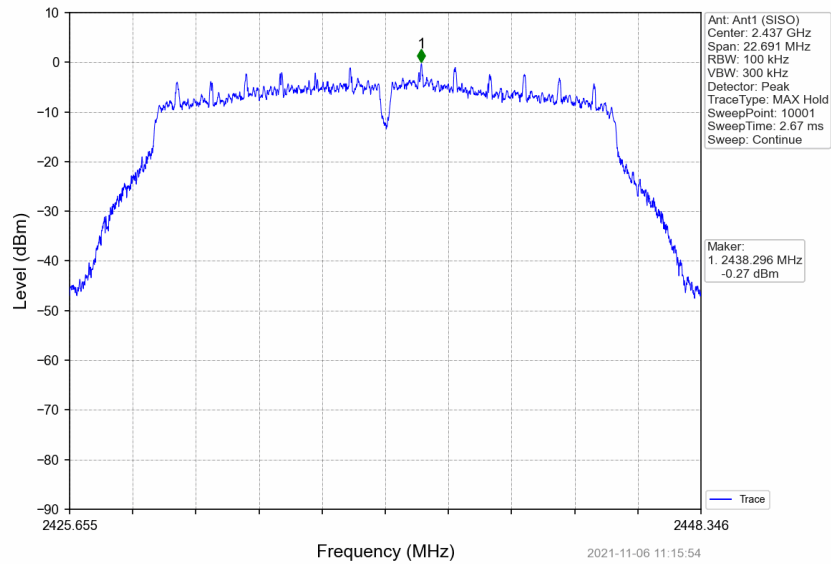
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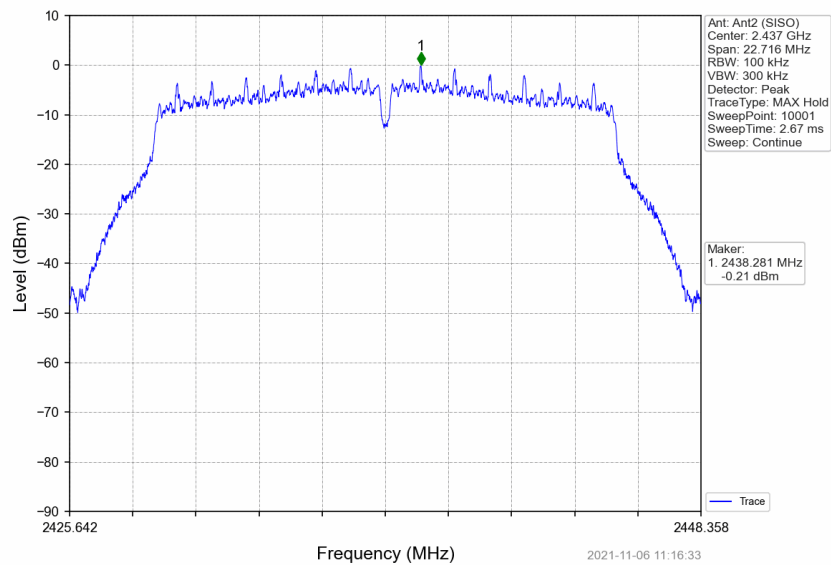
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802.11g MCH 2437MHz Ant1 (SISO) NTN



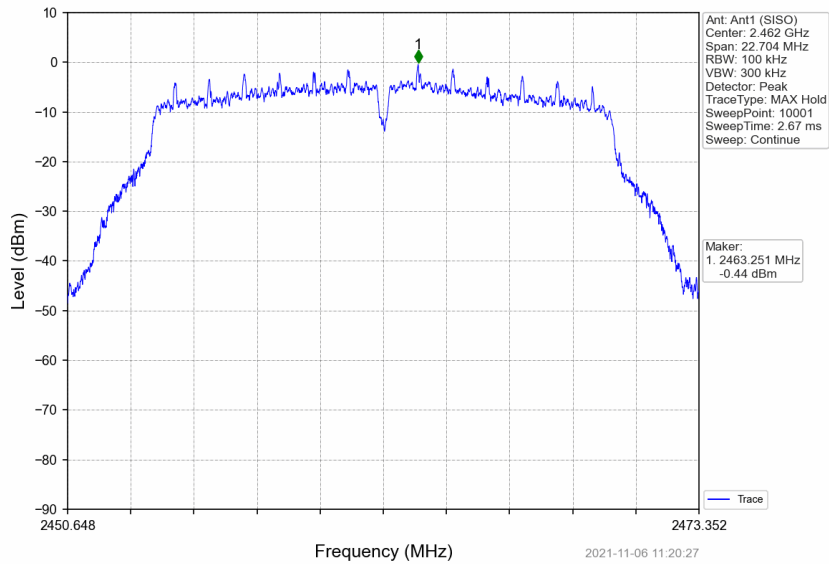
802.11g MCH 2437MHz Ant2 (SISO) NTN



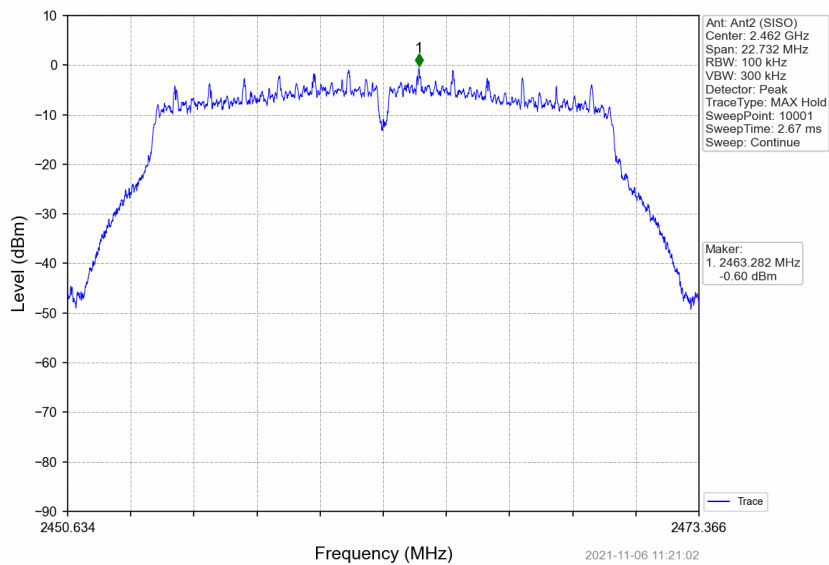
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802.11g HCH 2462MHz Ant1 (SISO) NTN



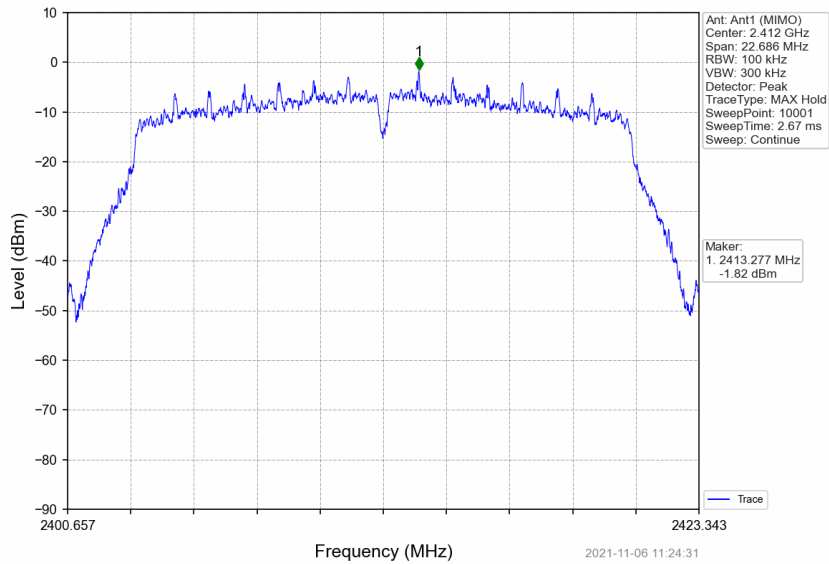
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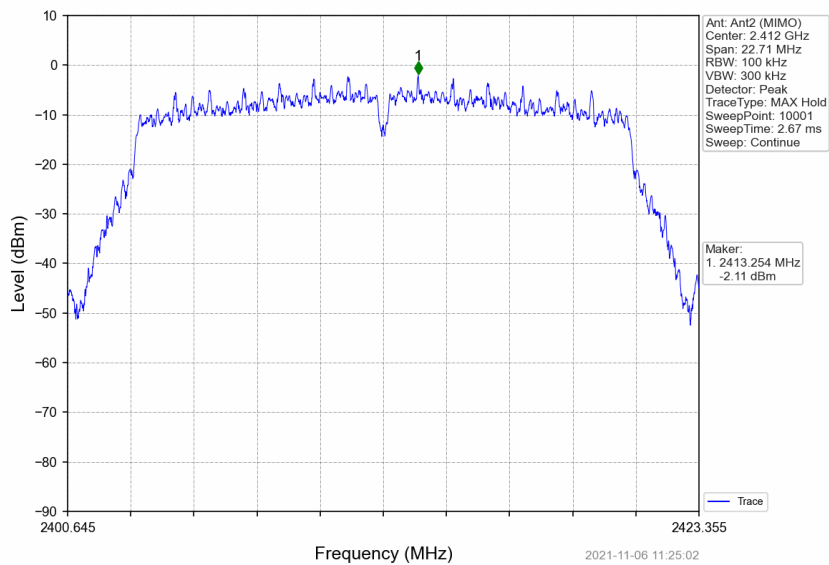
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO) NTN



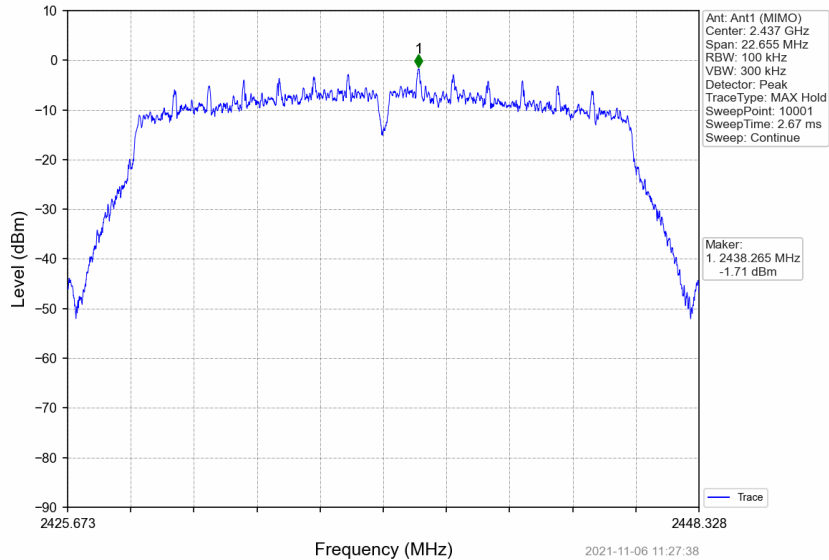
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO) NTN



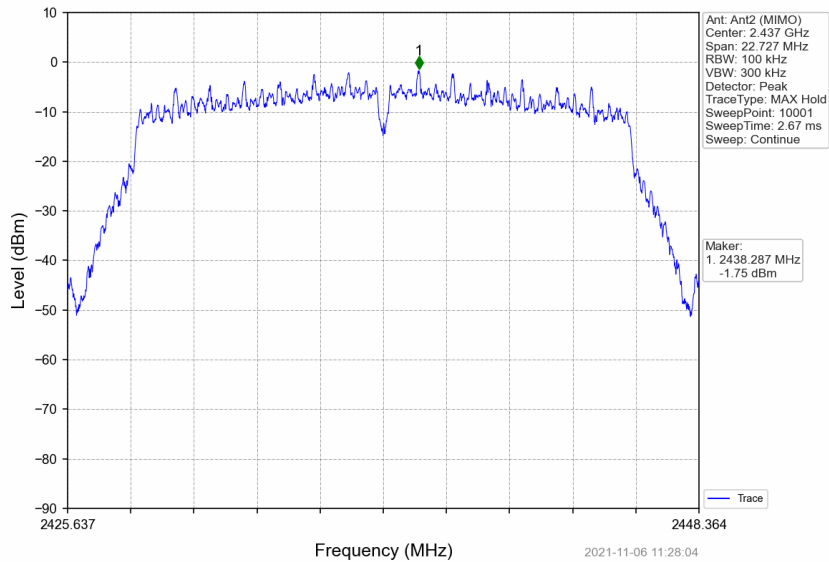
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTVN



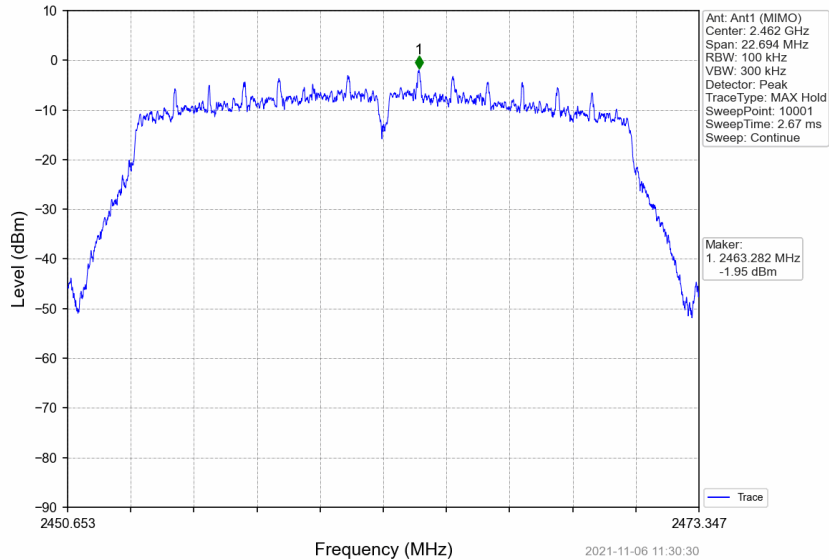
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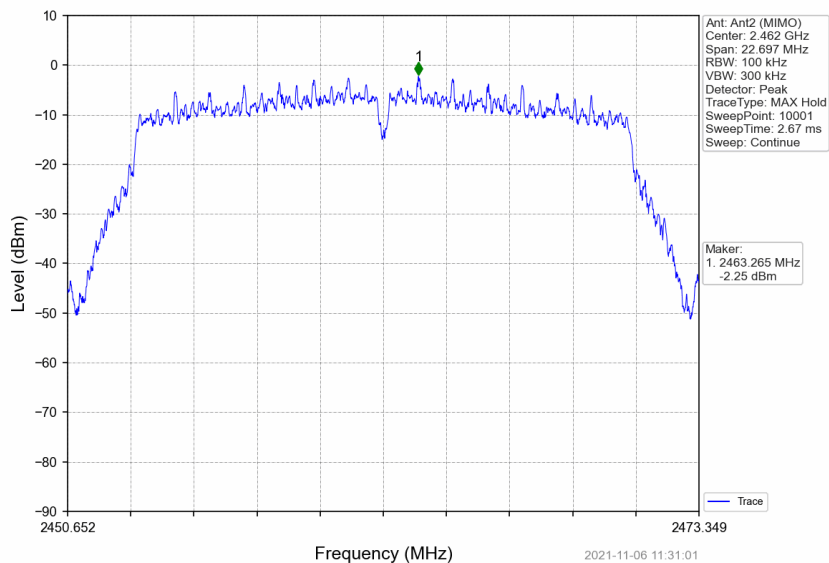
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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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	4.77	-15.23	Pass
			2	4.20	-15.80	Pass
		2437	1	4.77	-15.23	Pass
			2	4.20	-15.80	Pass
		2462	1	4.77	-15.23	Pass
			2	4.20	-15.80	Pass
802.11g	SISO	2412	1	-0.15	-20.15	Pass
			2	-0.21	-20.21	Pass
		2437	1	-0.15	-20.15	Pass
			2	-0.21	-20.21	Pass
		2462	1	-0.15	-20.15	Pass
			2	-0.21	-20.21	Pass
802.11n (HT20)	MIMO	2412	1	-1.71	-21.71	Pass
			2	-1.75	-21.75	Pass
		2437	1	-1.71	-21.71	Pass
			2	-1.75	-21.75	Pass
		2462	1	-1.71	-21.71	Pass
			2	-1.75	-21.75	Pass

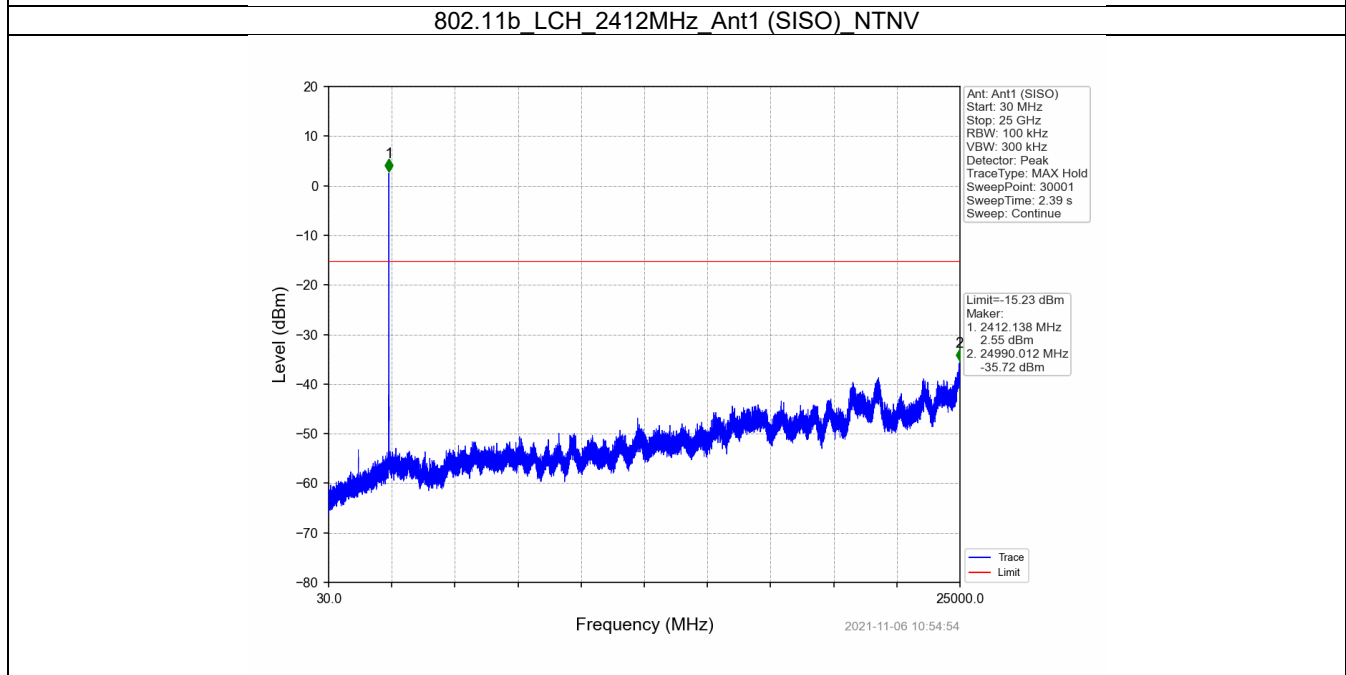
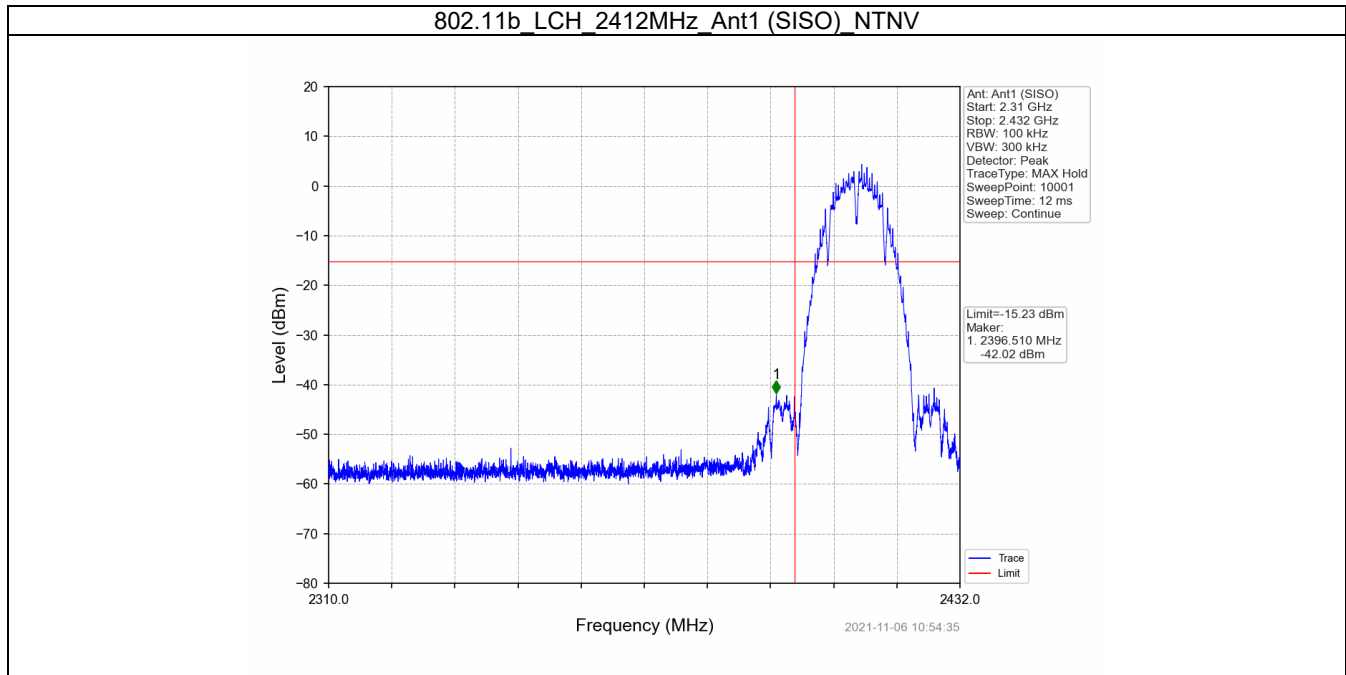
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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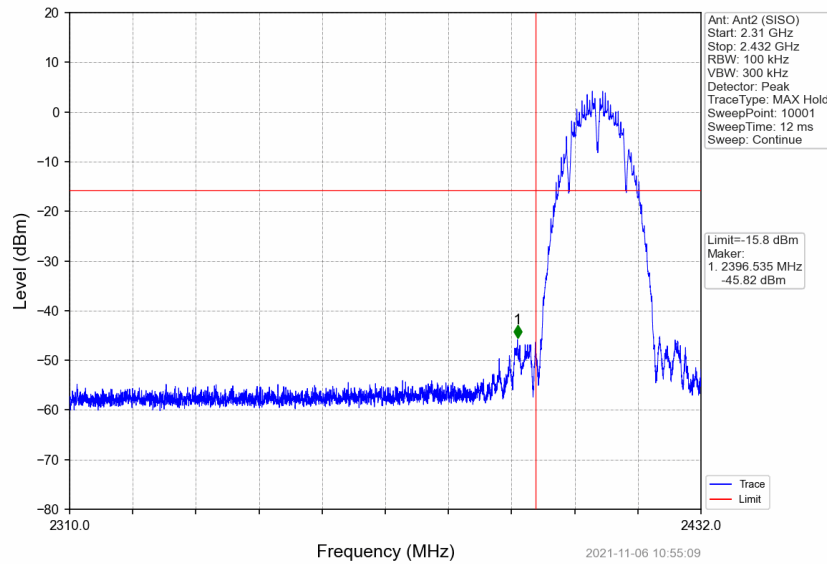
5.2.2 Test Graph



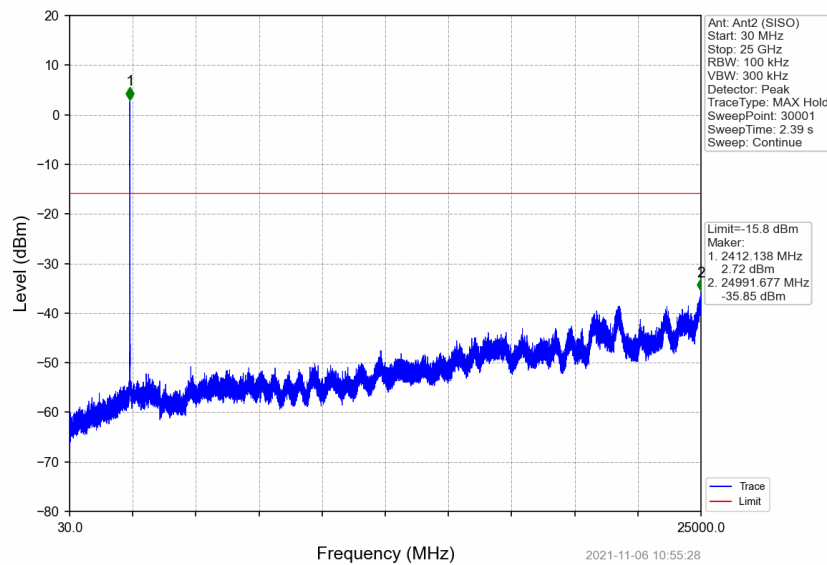
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802.11b LCH 2412MHz Ant2 (SISO) NTNV



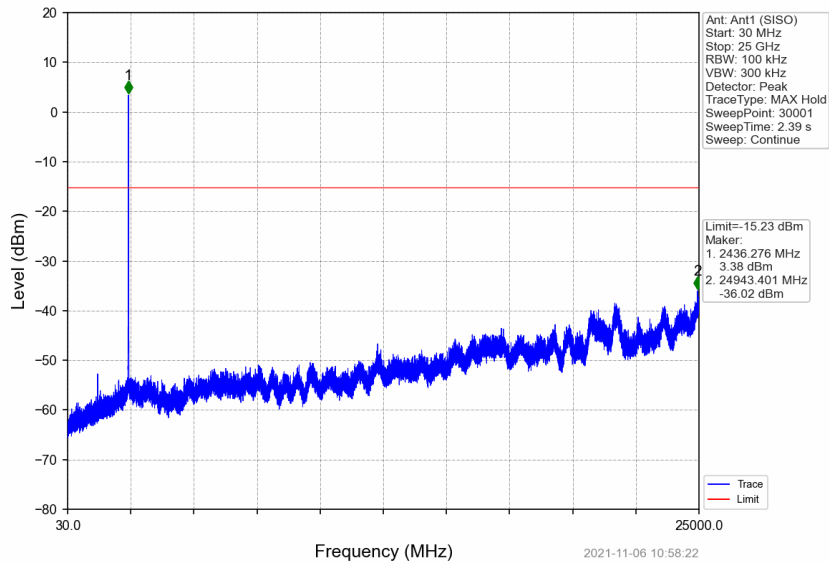
802.11b LCH 2412MHz Ant2 (SISO) NTNV



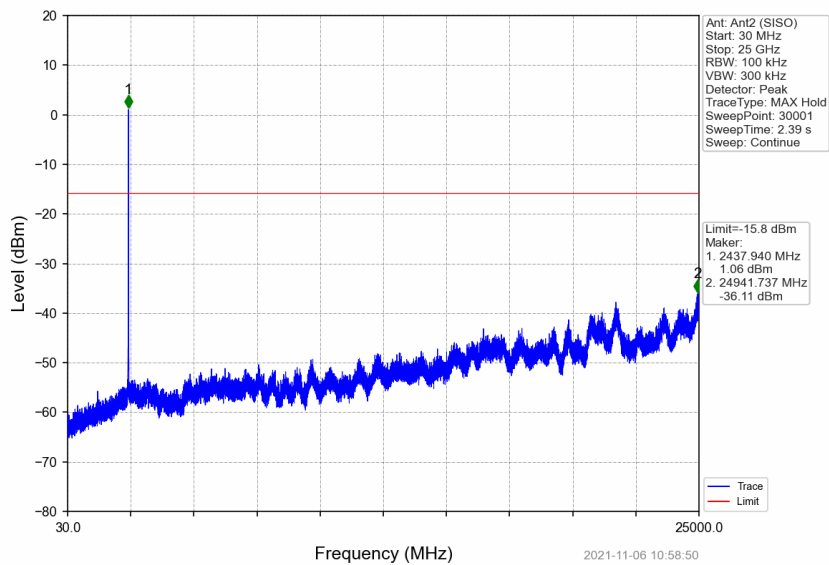
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802.11b MCH 2437MHz Ant1 (SISO) NTV



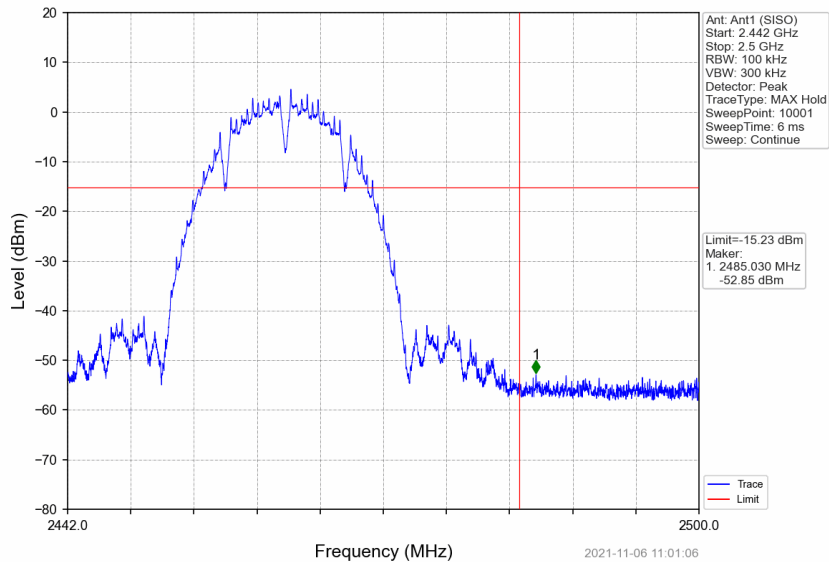
802.11b MCH 2437MHz Ant2 (SISO) NTV



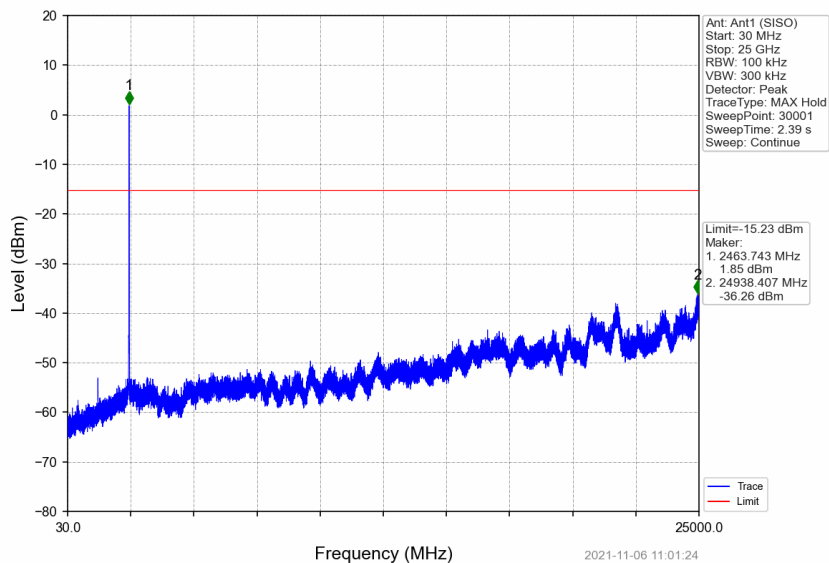
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802.11b HCH 2462MHz Ant1 (SISO) NTN



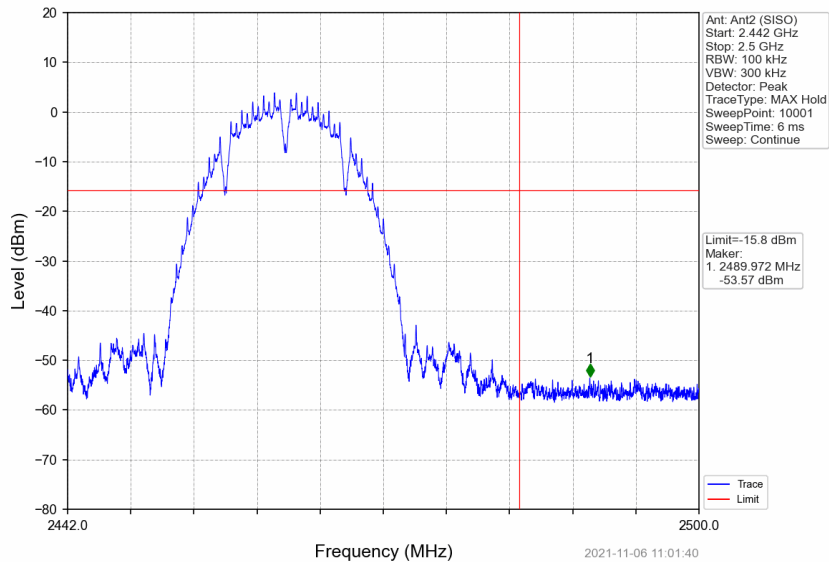
802.11b\_HCH\_2462MHz\_Ant1 (SISO) NTN



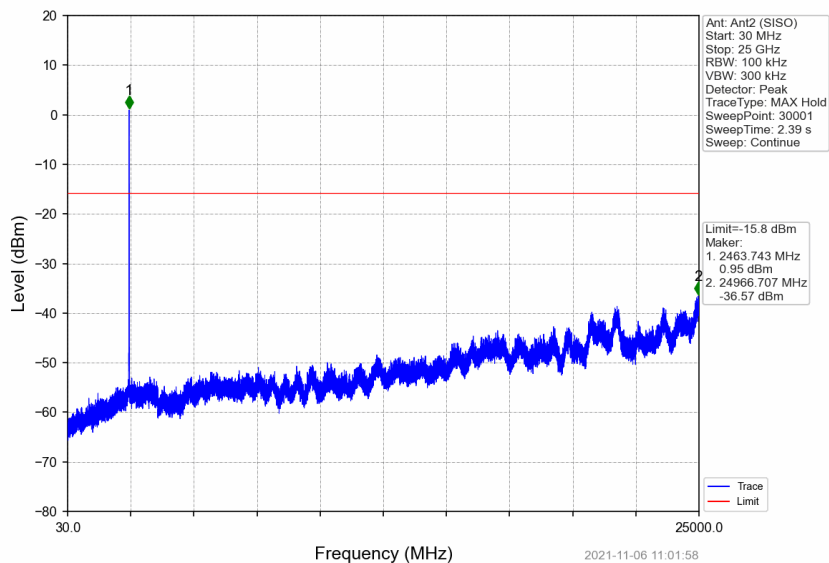
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802.11b HCH 2462MHz Ant2 (SISO) NTN

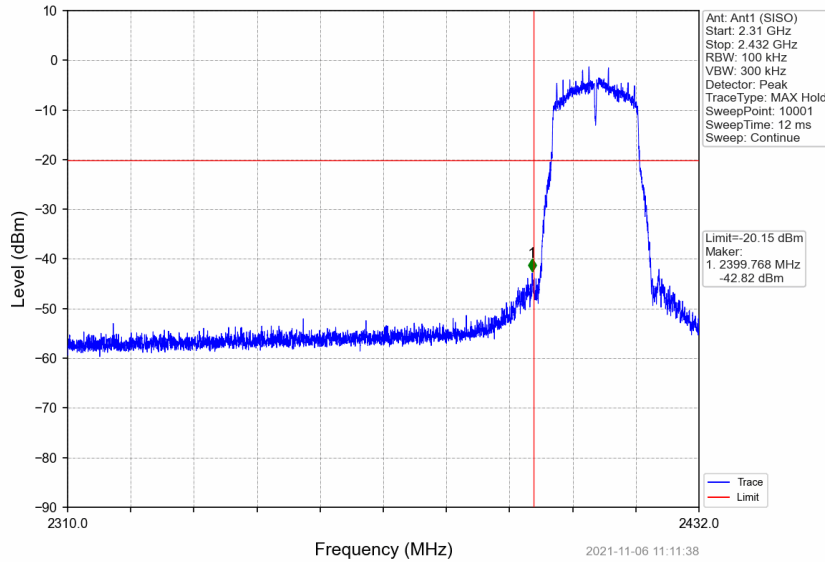


802.11b\_HCH\_2462MHz\_Ant2 (SISO) NTN

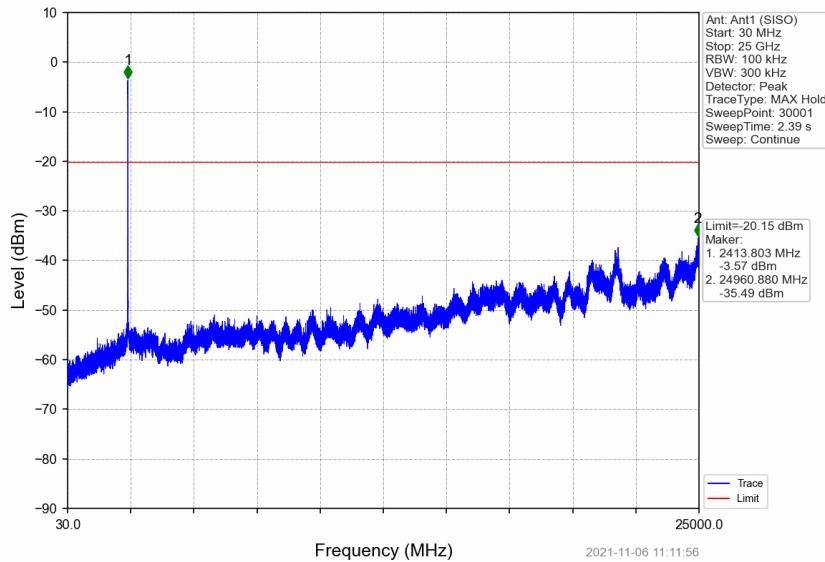


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802.11g\_LCH\_2412MHz\_Ant1 (SISO) NTN



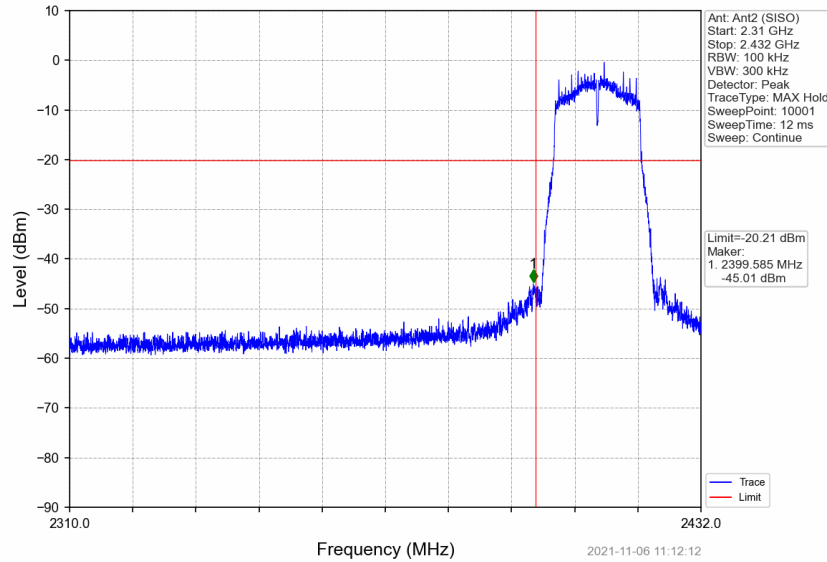
802.11g\_LCH\_2412MHz\_Ant1 (SISO) NTN



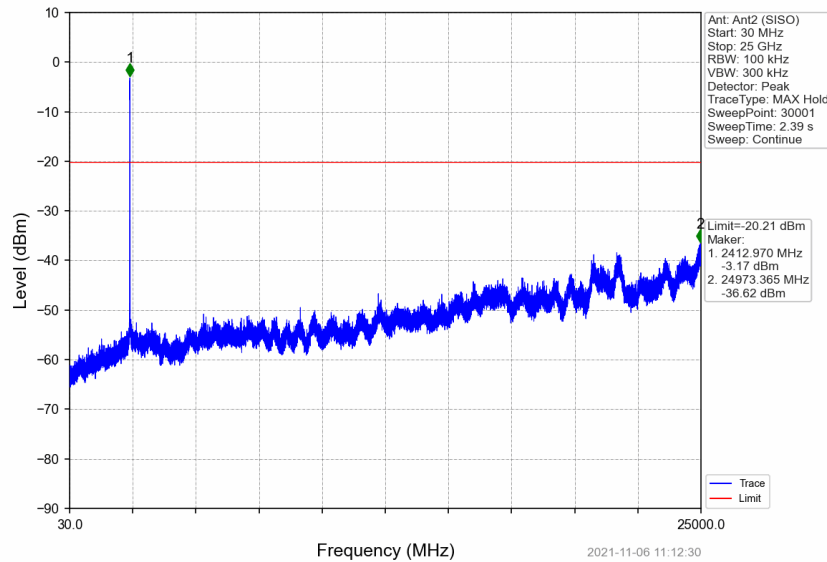
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802.11g\_LCH\_2412MHz\_Ant2 (SISO) NTN



802.11g\_LCH\_2412MHz\_Ant2 (SISO) NTN

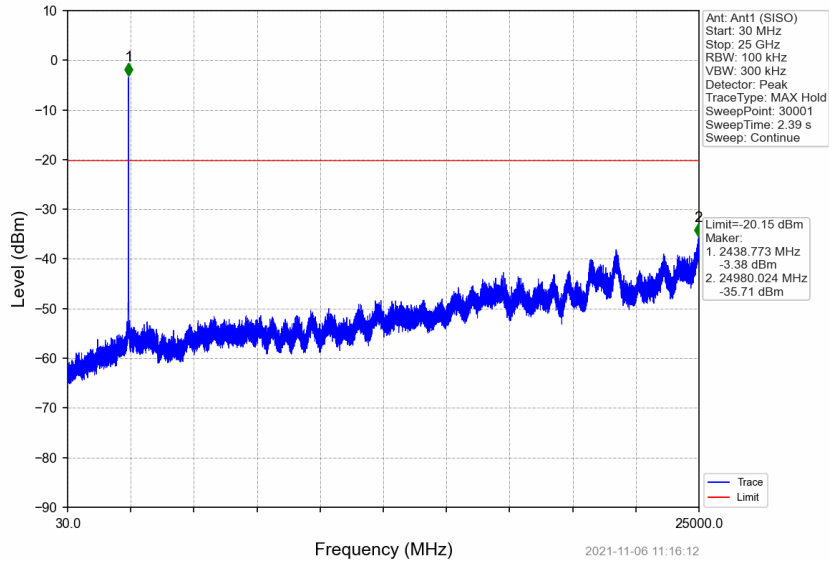


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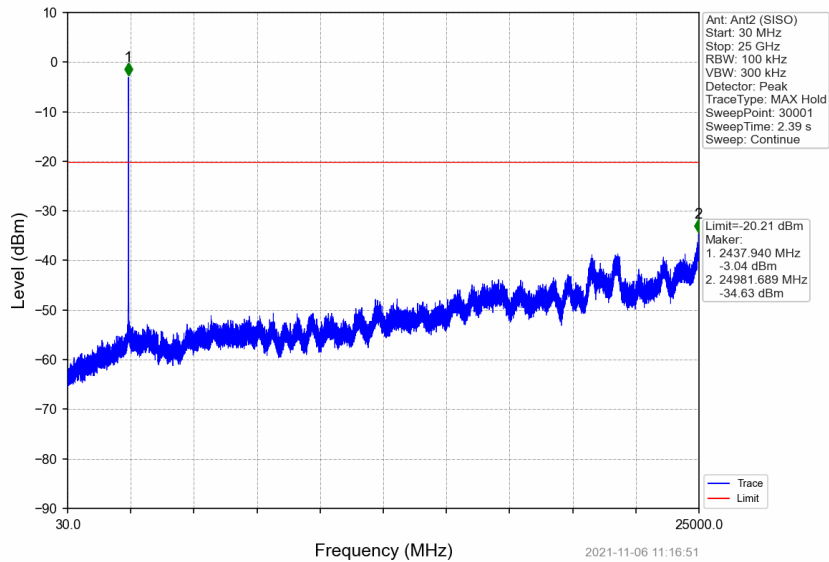
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802.11g MCH 2437MHz Ant1 (SISO) NTV



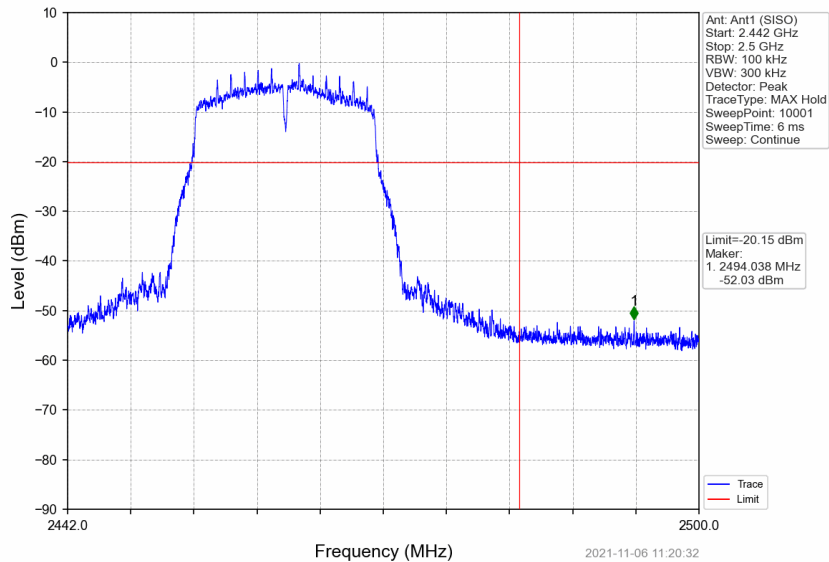
802.11g MCH 2437MHz Ant2 (SISO) NTV



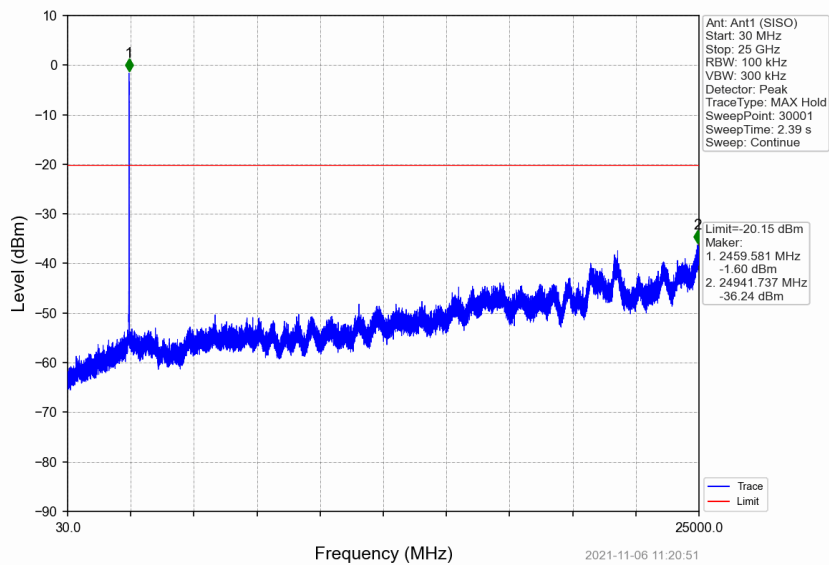
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802.11g HCH 2462MHz Ant1 (SISO) NTN



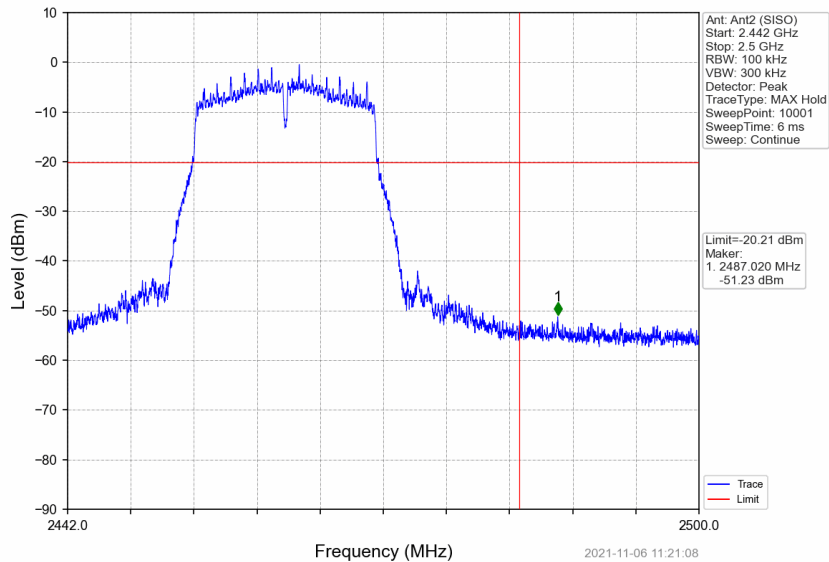
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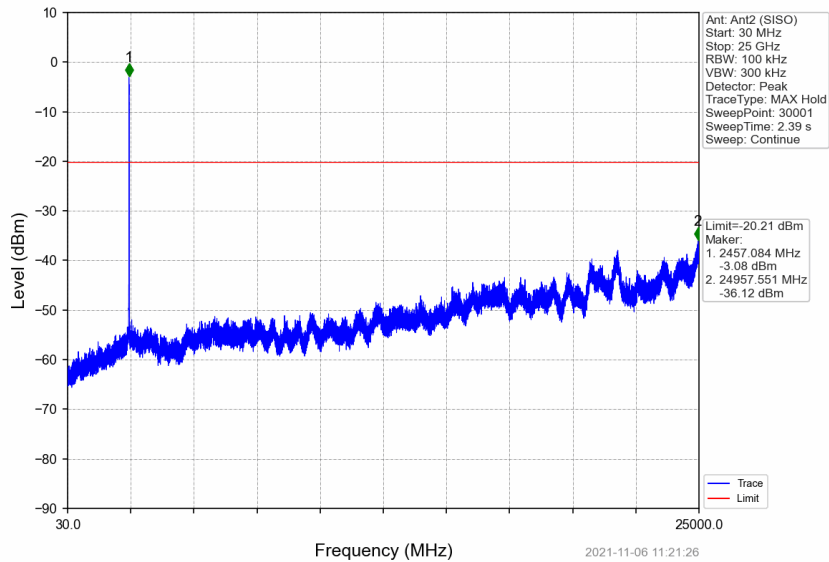
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802.11g HCH 2462MHz Ant2 (SISO) NTN



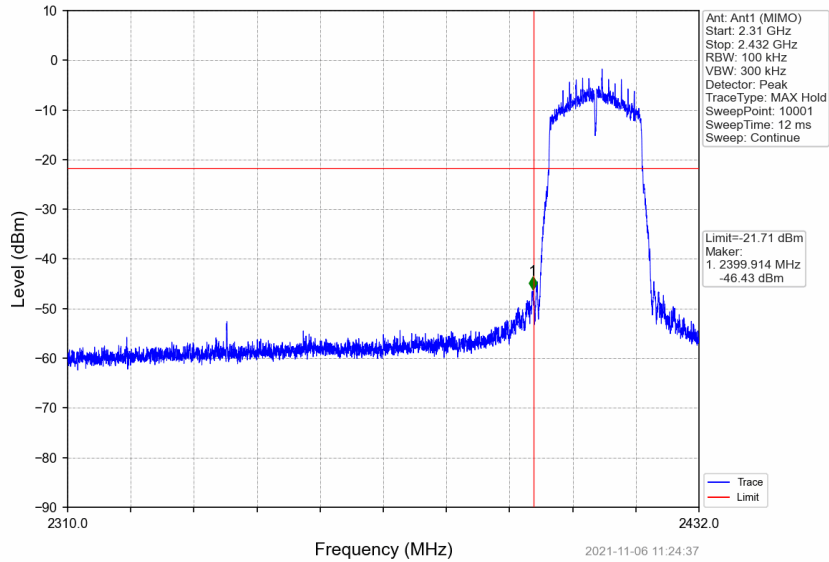
802.11g HCH 2462MHz Ant2 (SISO) NTN



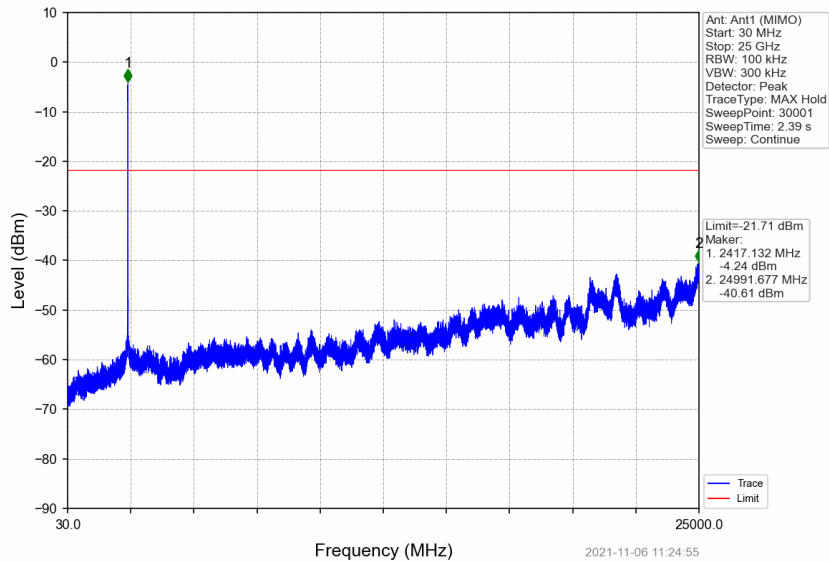
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTV



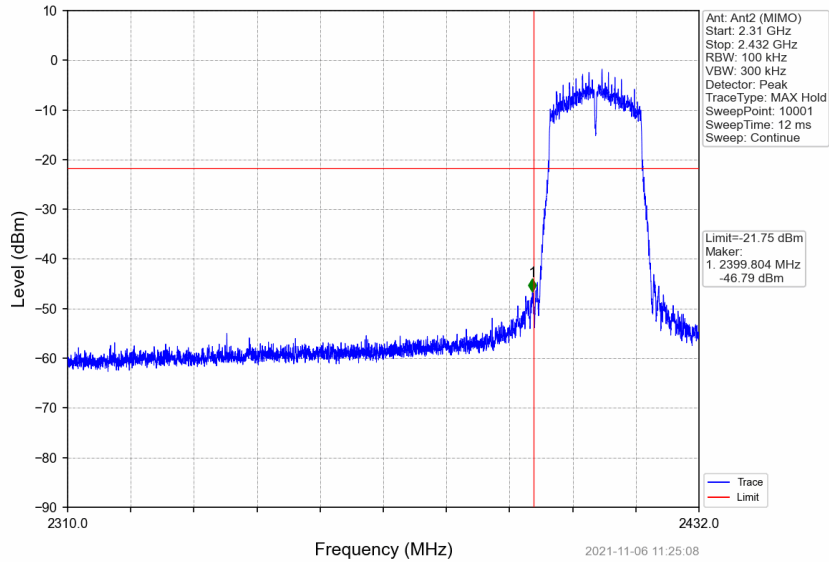
802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTV



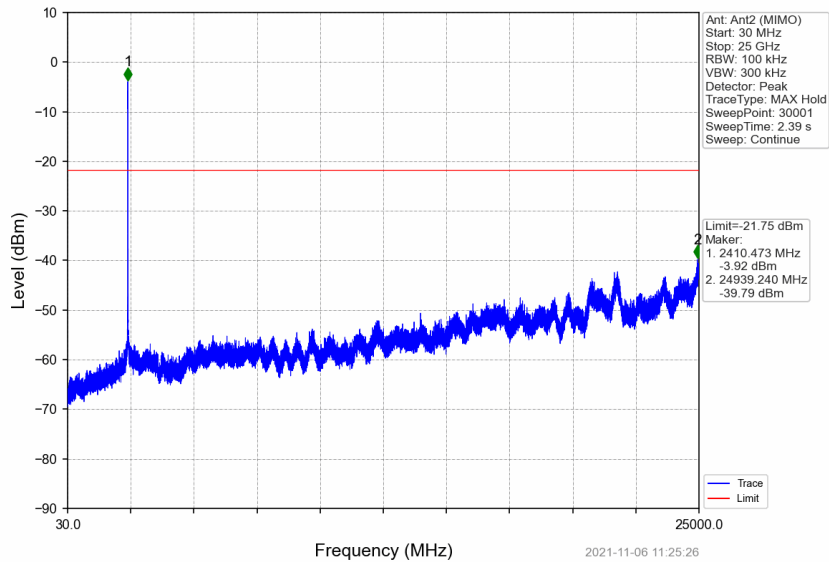
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802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO) NTN



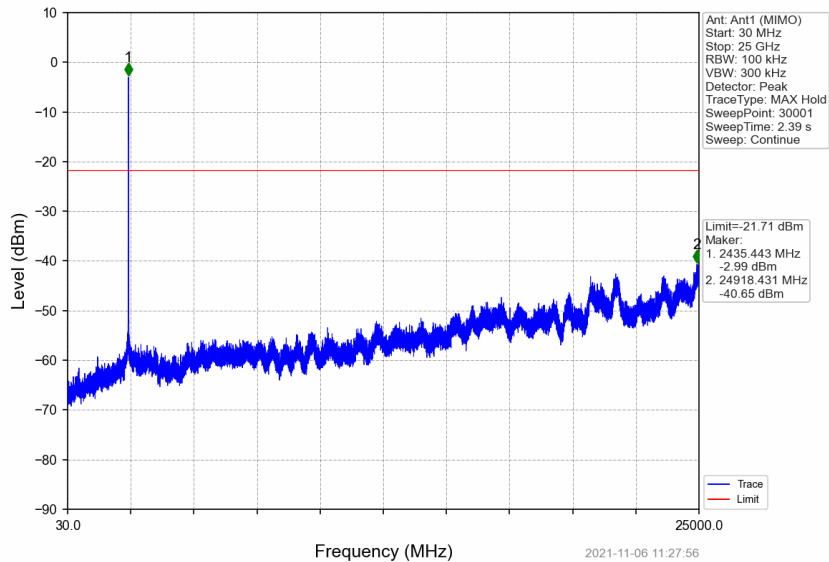
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO) NTN



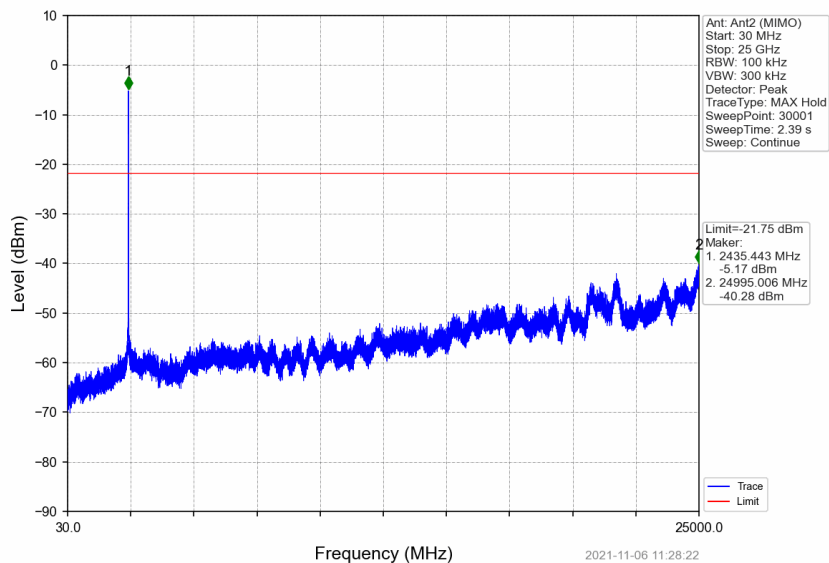
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTN



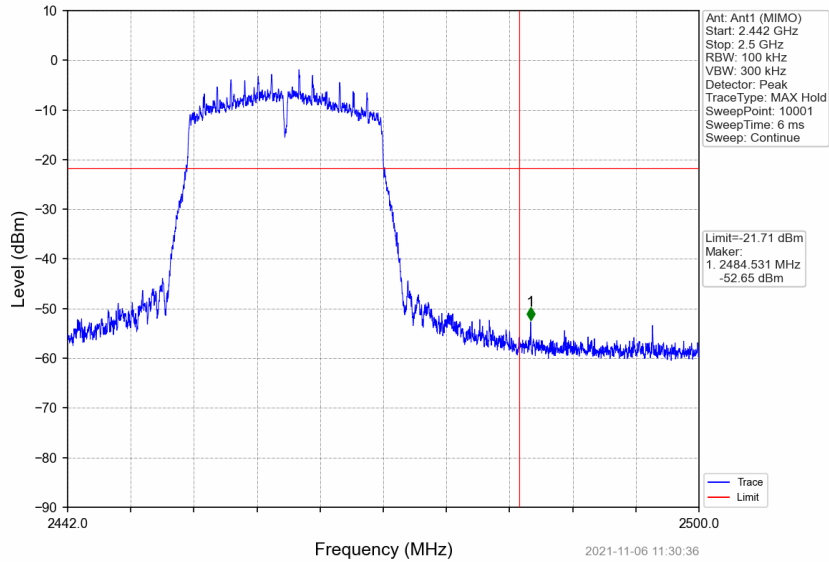
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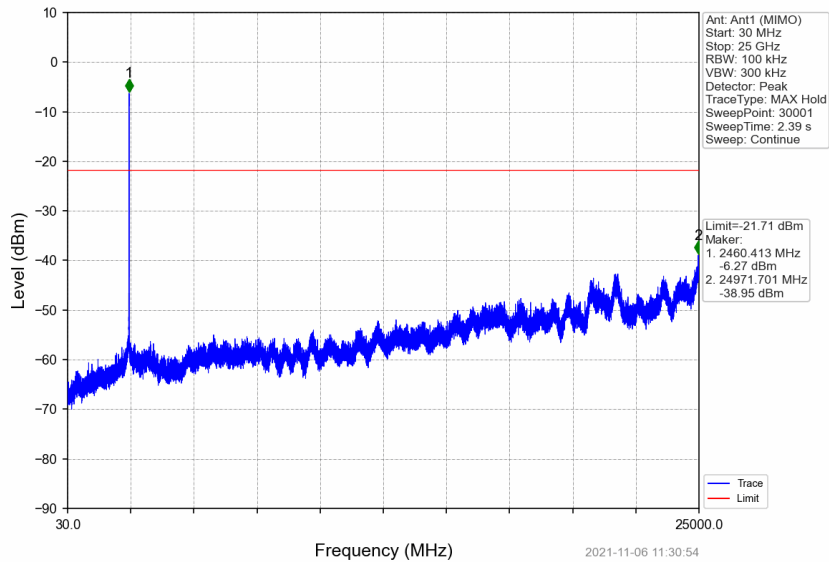
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



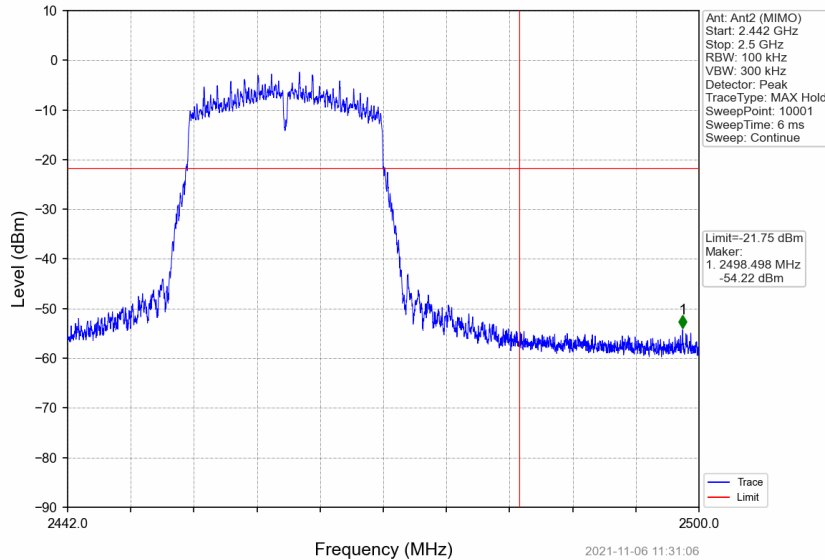
802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



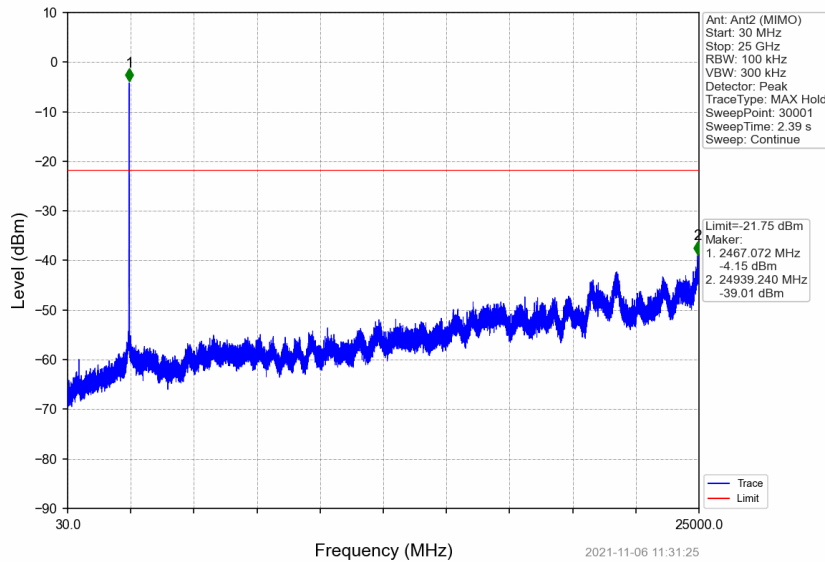
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802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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