

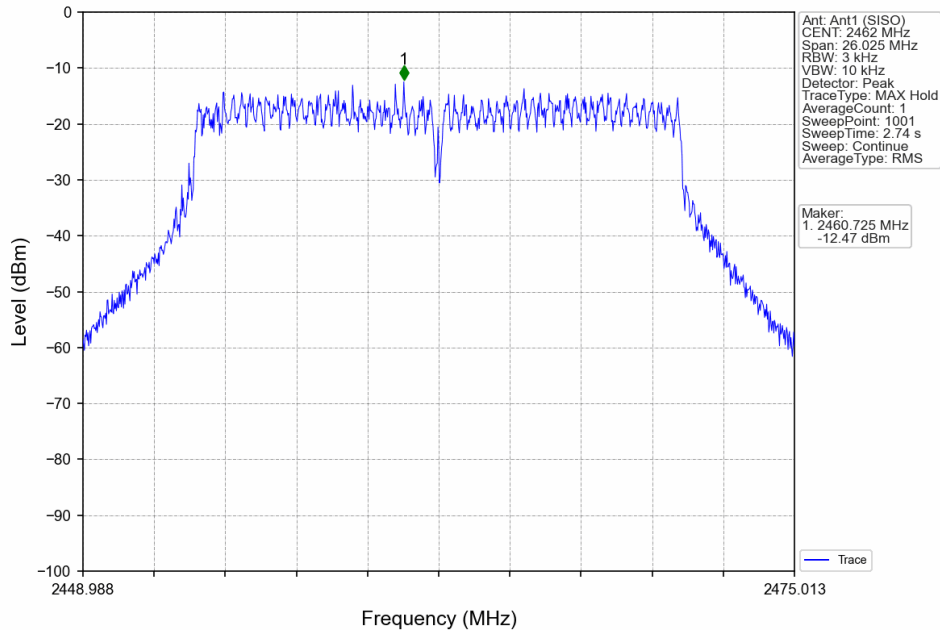
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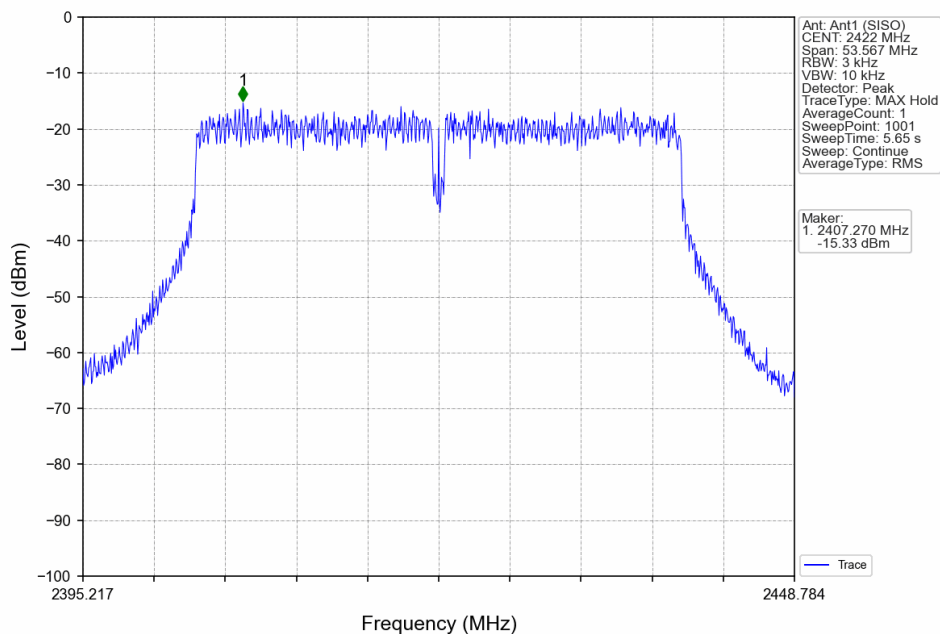
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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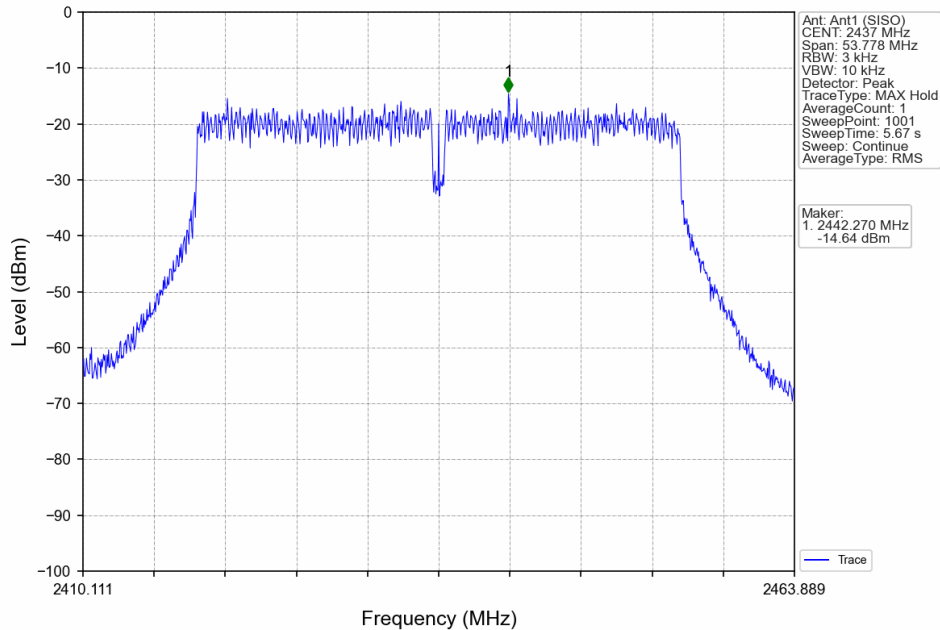
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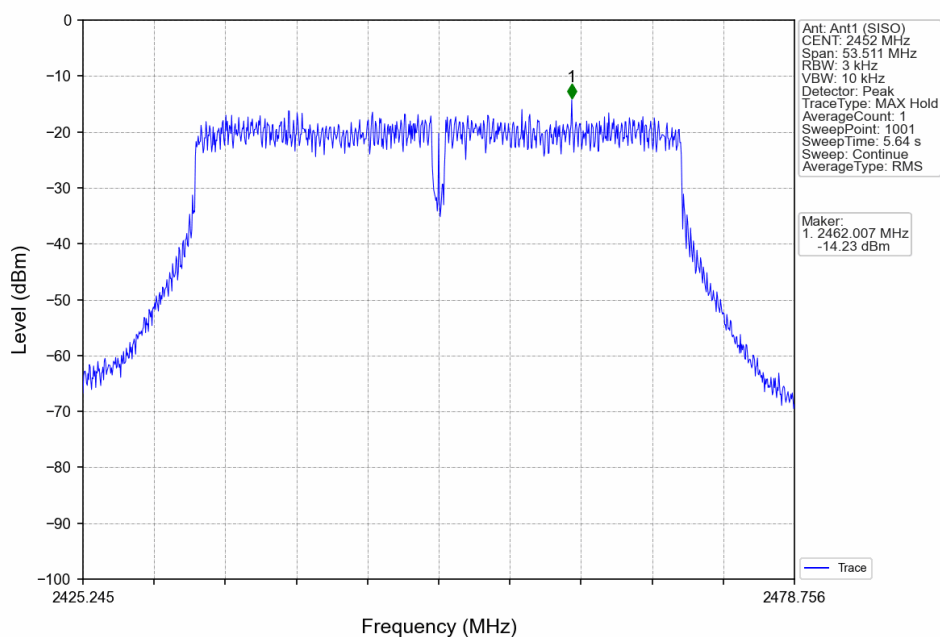
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (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	4.65
		2437	1	4.28
		2462	1	5.61
802.11g	SISO	2412	1	3.04
		2437	1	2.72
		2462	1	2.75
802.11n (HT20)	SISO	2412	1	2.25
		2437	1	1.87
		2462	1	1.79
802.11n (HT40)	SISO	2422	1	-0.86
		2437	1	-1.05
		2452	1	-1.07

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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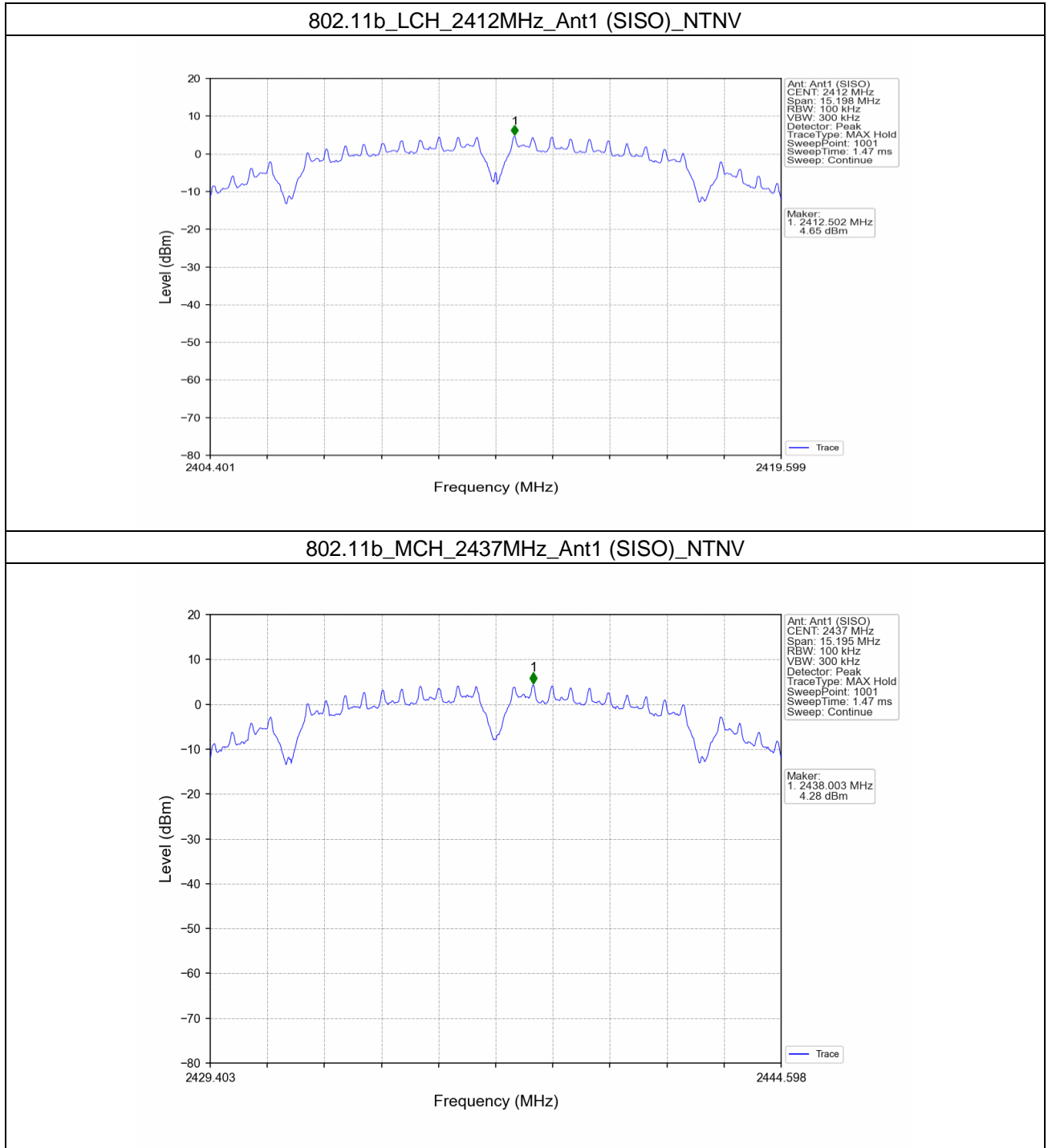
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### 5.1.2 Test Graph



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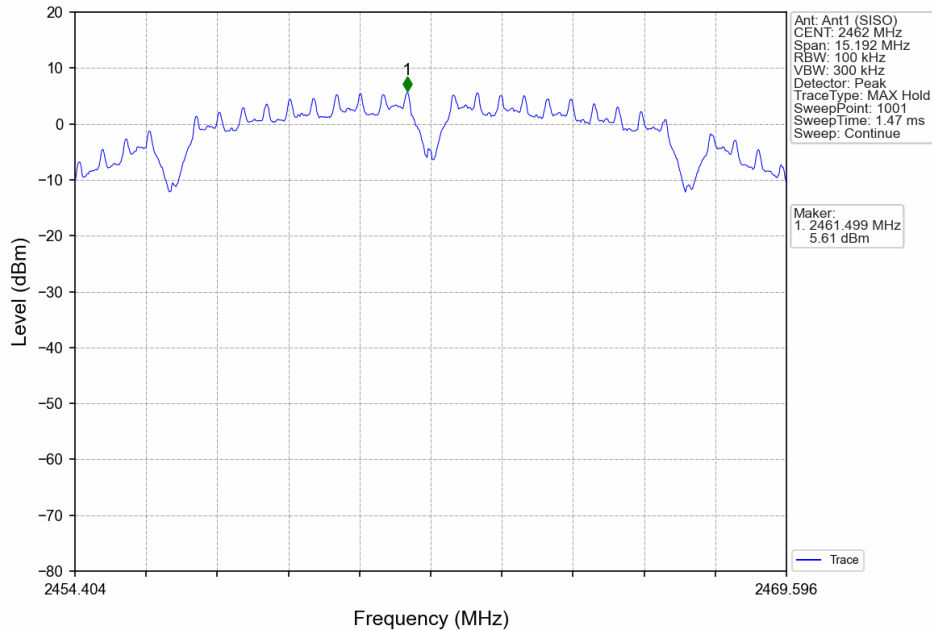
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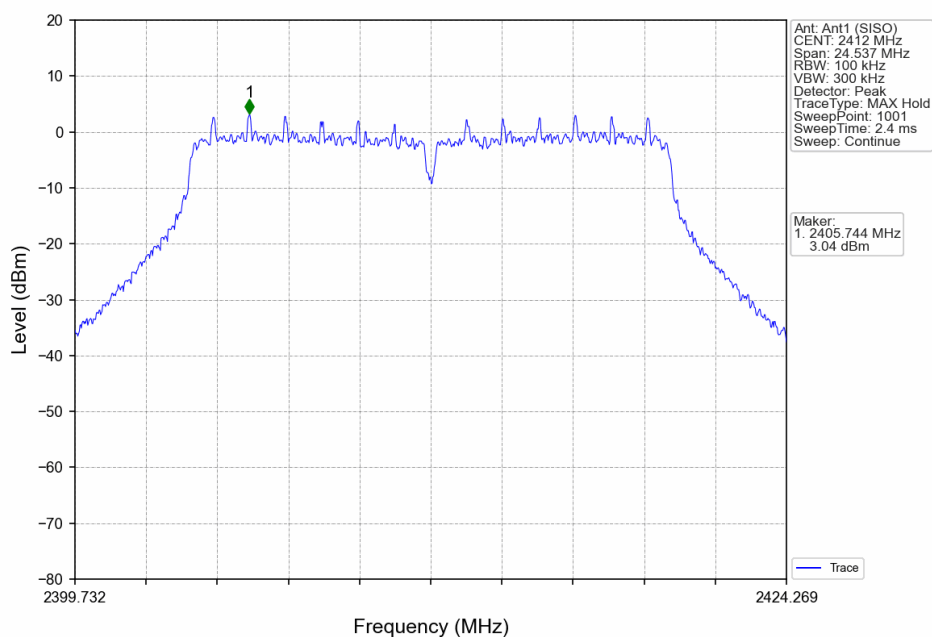
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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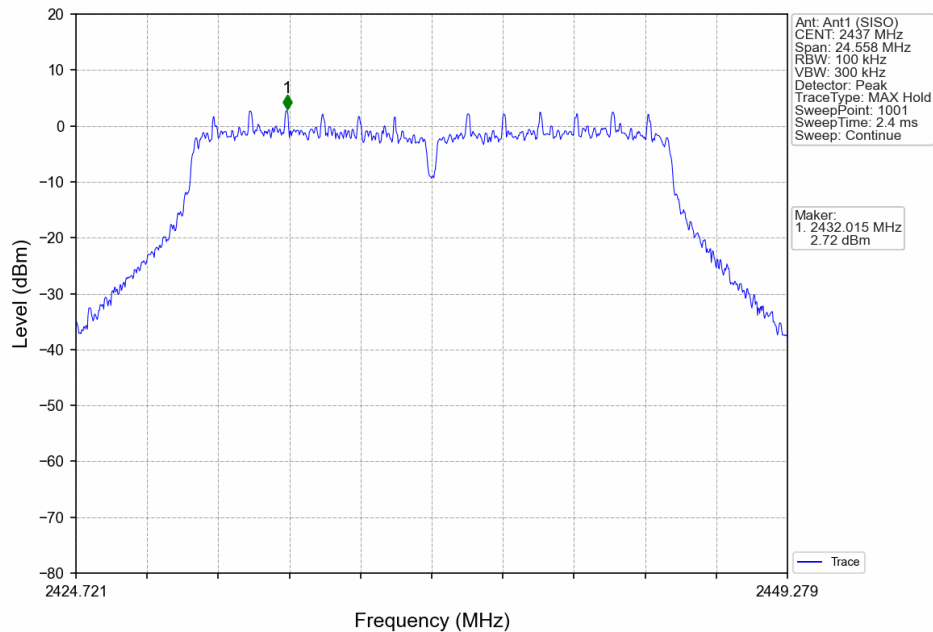
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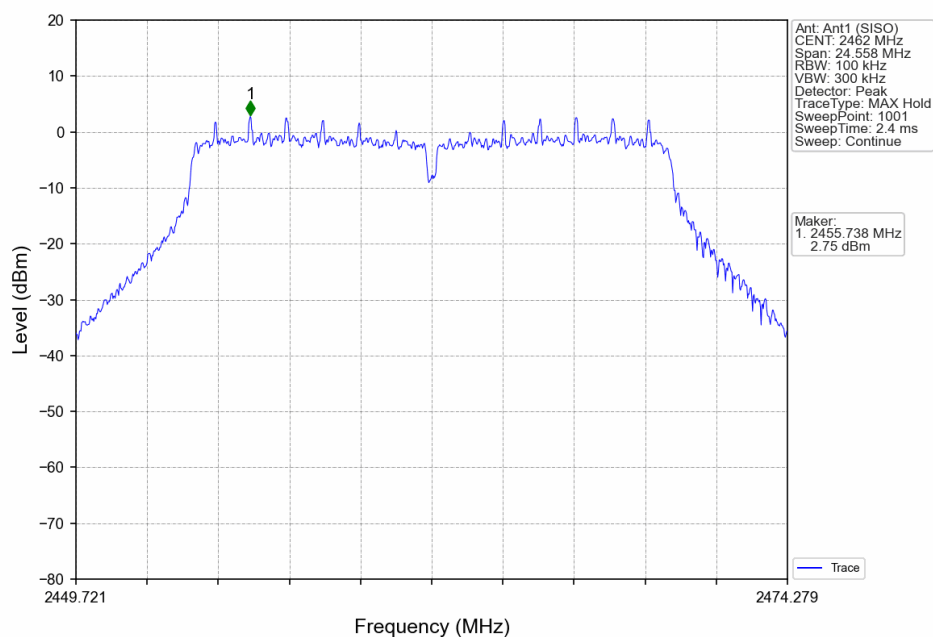
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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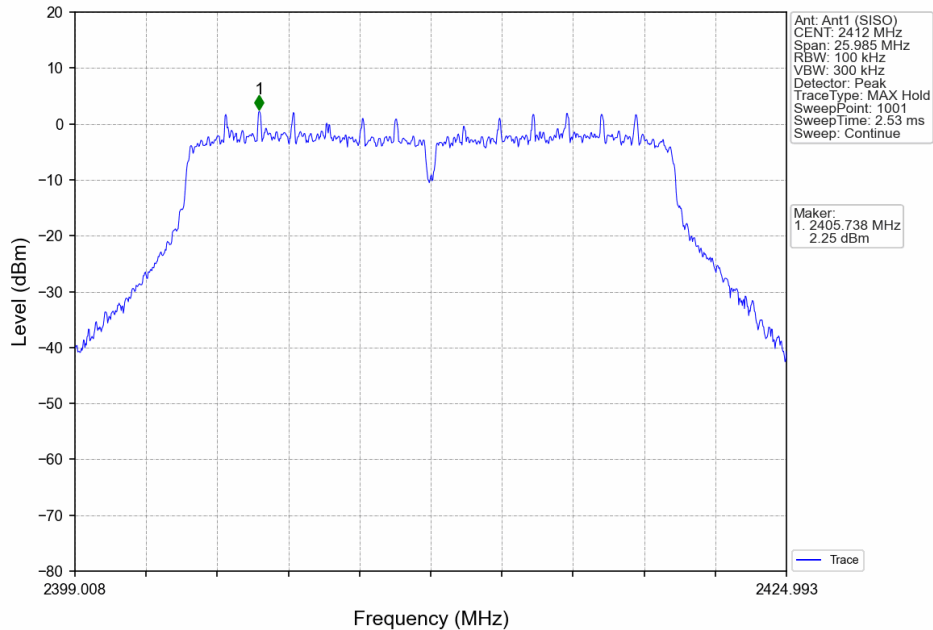
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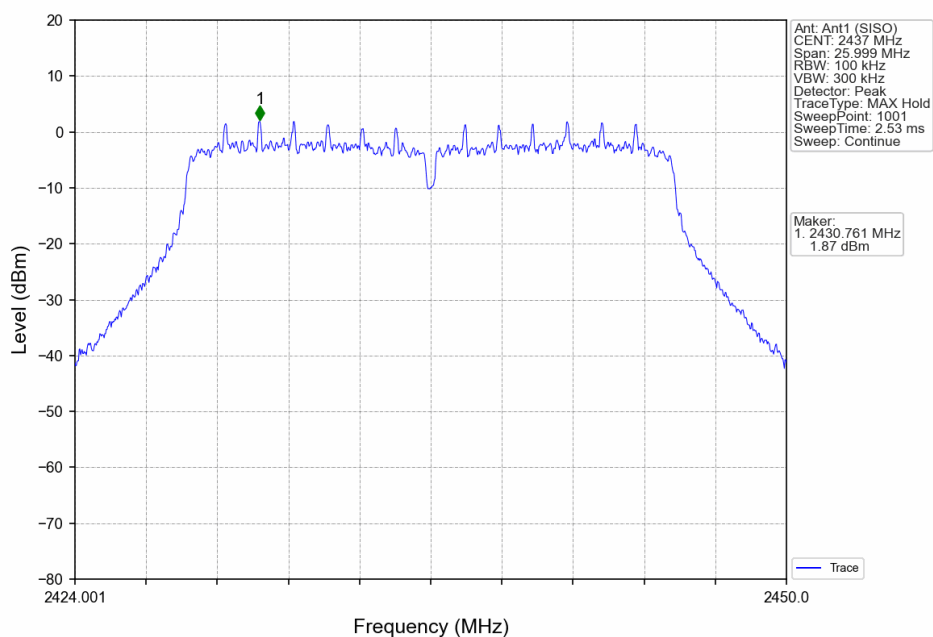
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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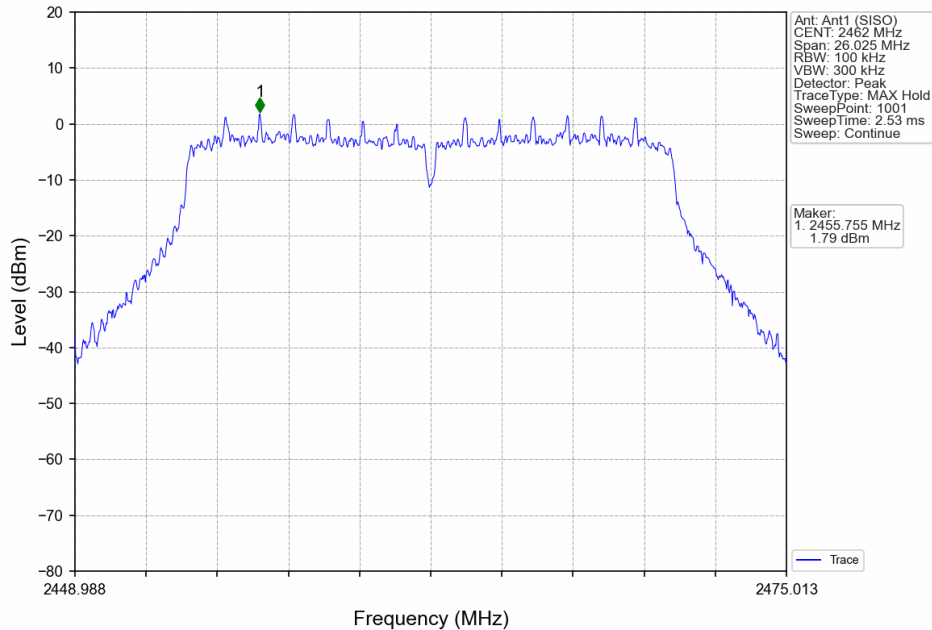
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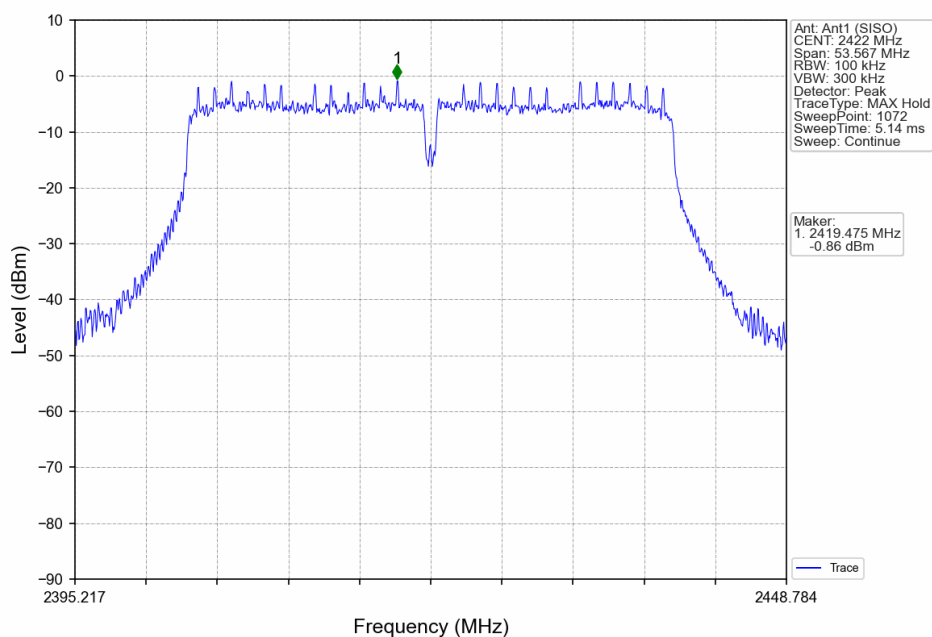
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### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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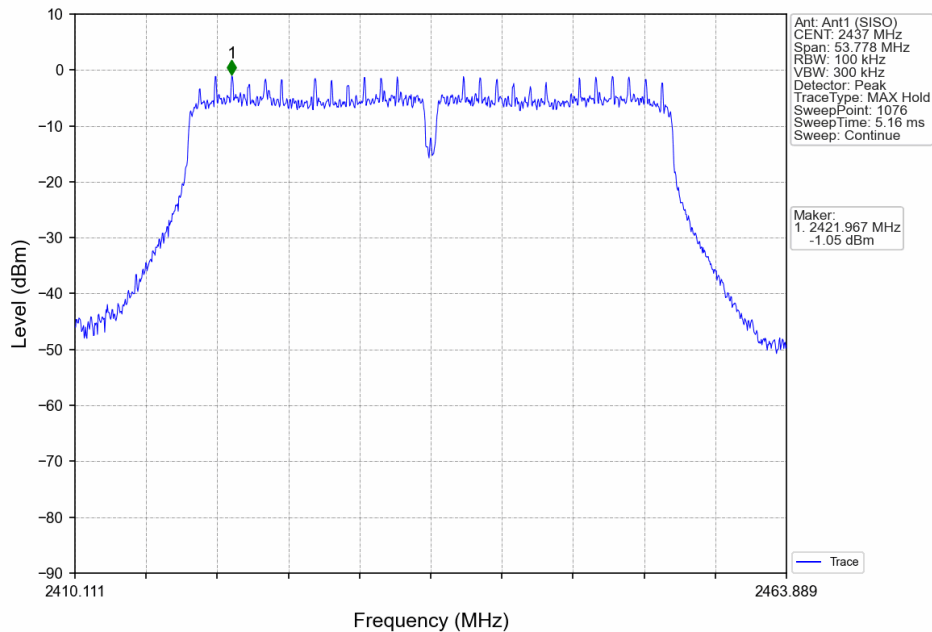
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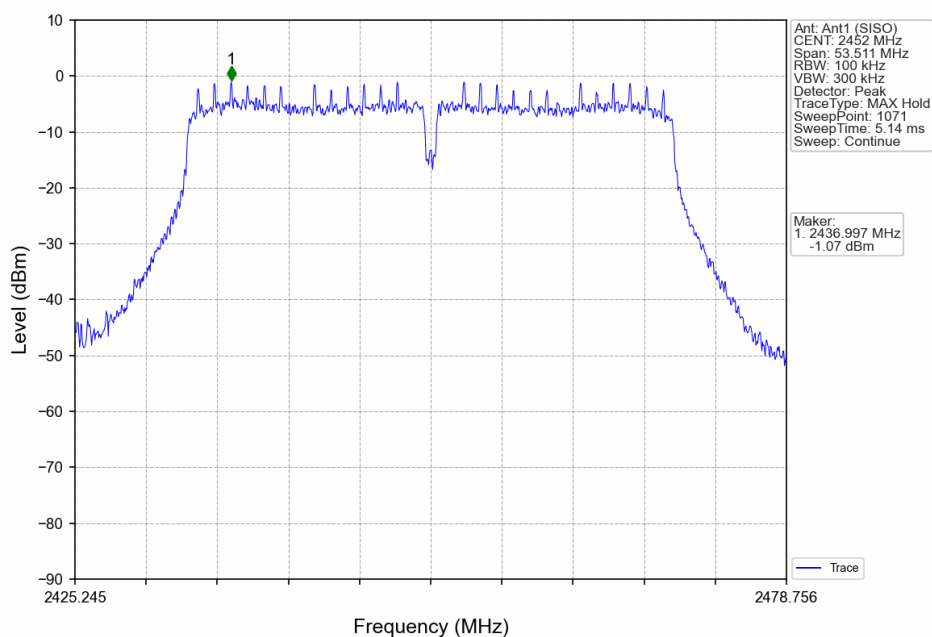
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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### 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	5.61	-24.39	Pass
		2437	1	5.61	-24.39	Pass
		2462	1	5.61	-24.39	Pass
802.11g	SISO	2412	1	3.04	-26.96	Pass
		2437	1	3.04	-26.96	Pass
		2462	1	3.04	-26.96	Pass
802.11n (HT20)	SISO	2412	1	2.25	-27.75	Pass
		2437	1	2.25	-27.75	Pass
		2462	1	2.25	-27.75	Pass
802.11n (HT40)	SISO	2422	1	-0.86	-30.86	Pass
		2437	1	-0.86	-30.86	Pass
		2452	1	-0.86	-30.86	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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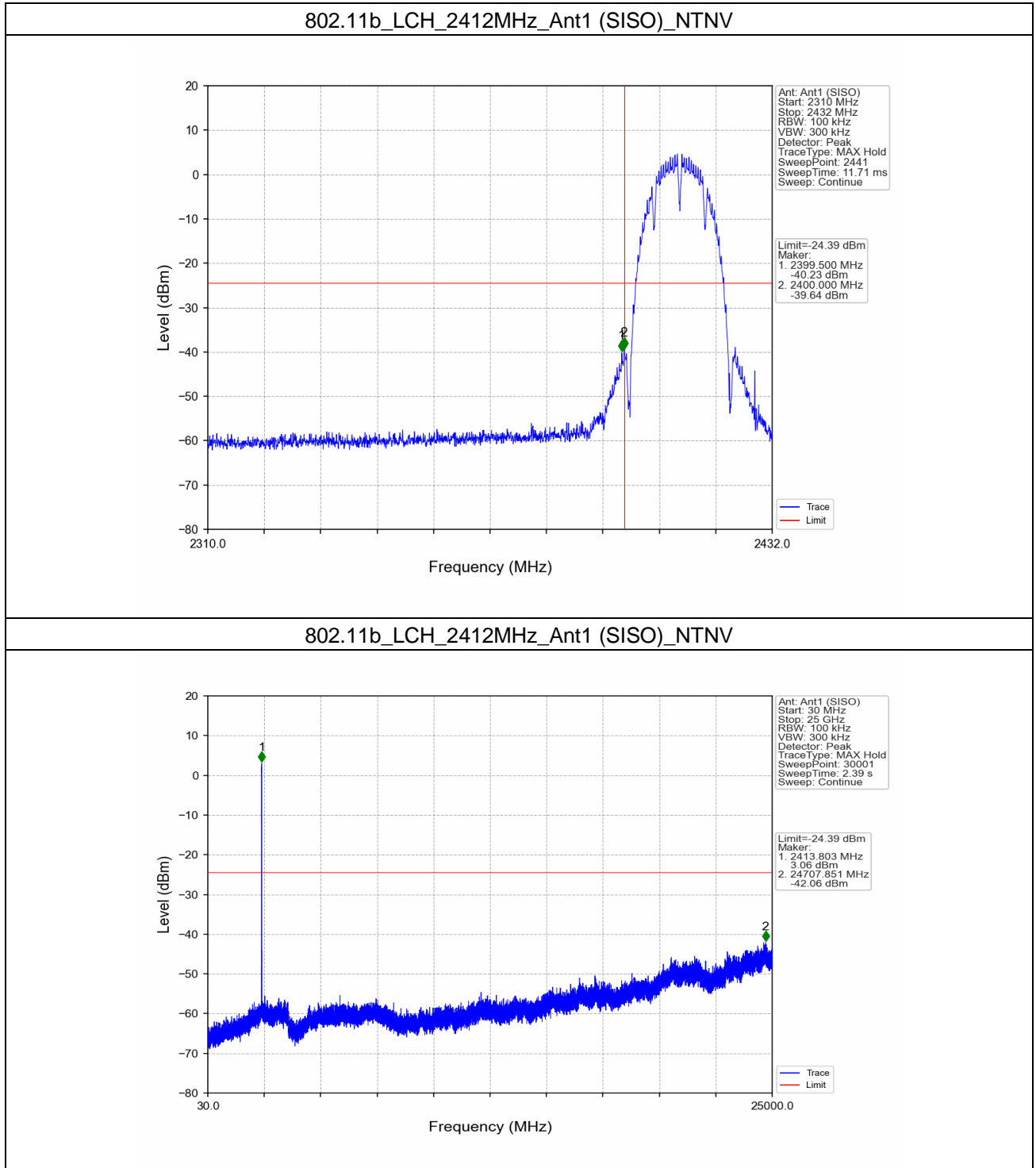
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### 5.2.2 Test Graph



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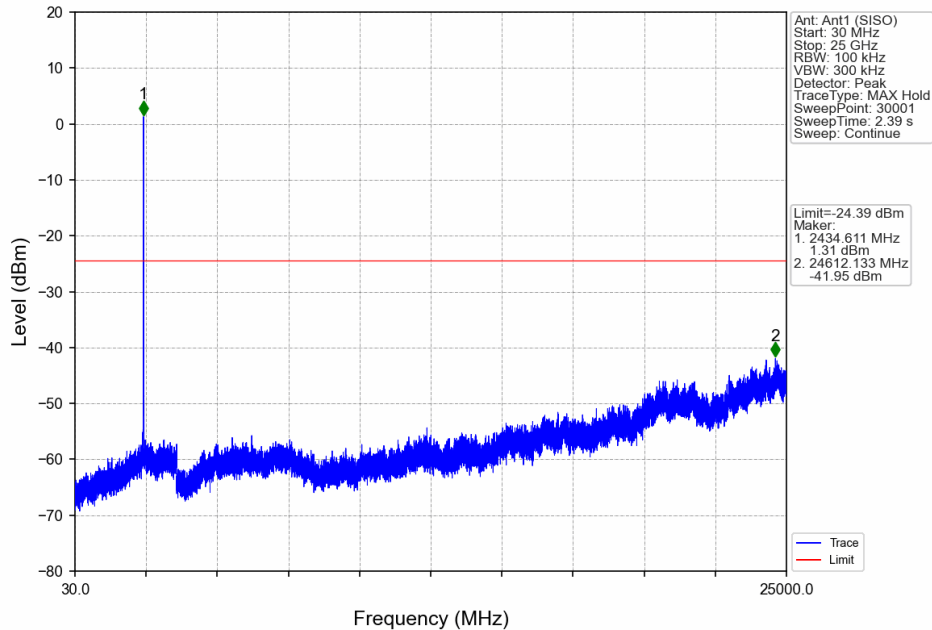
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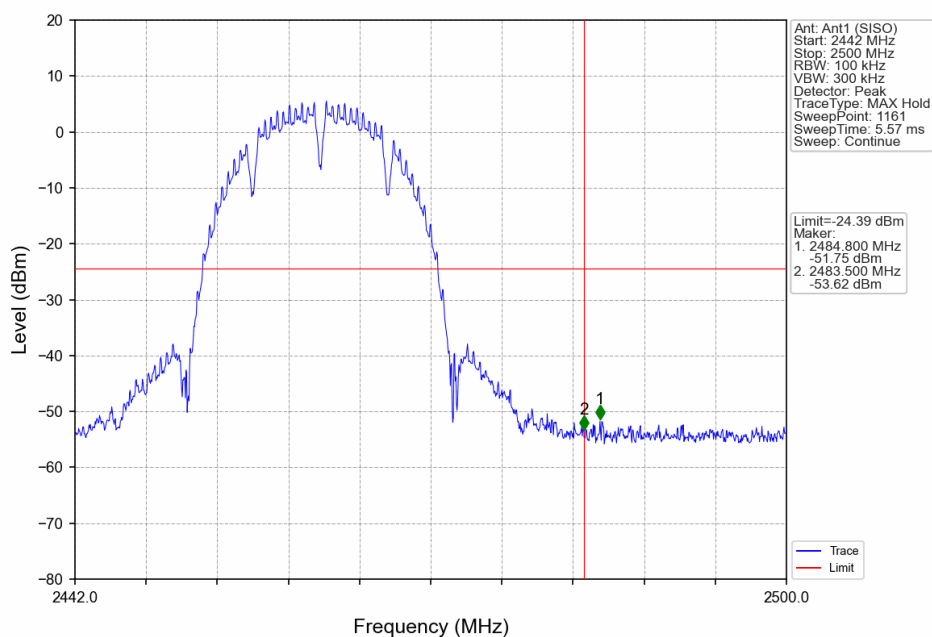
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### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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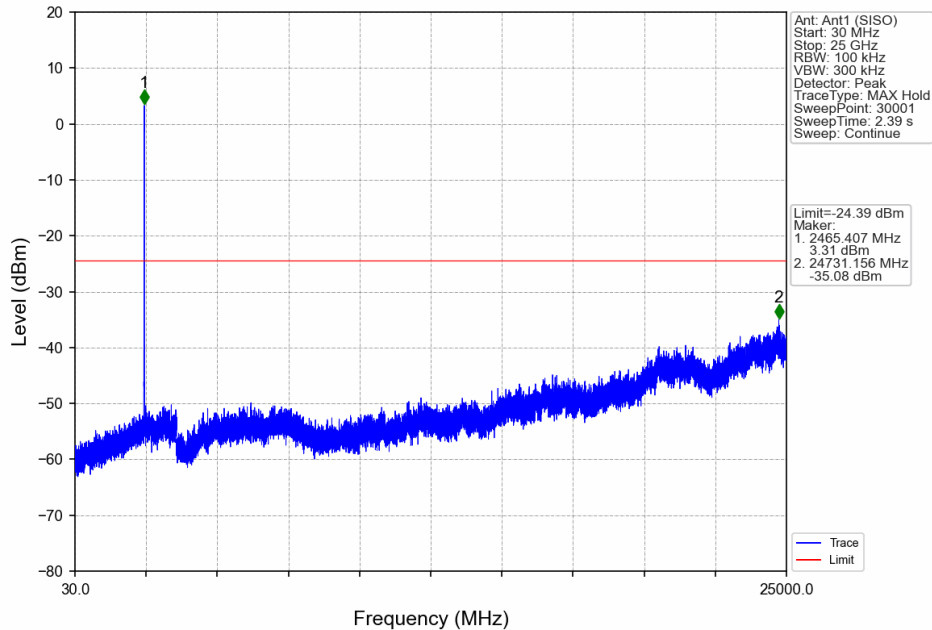
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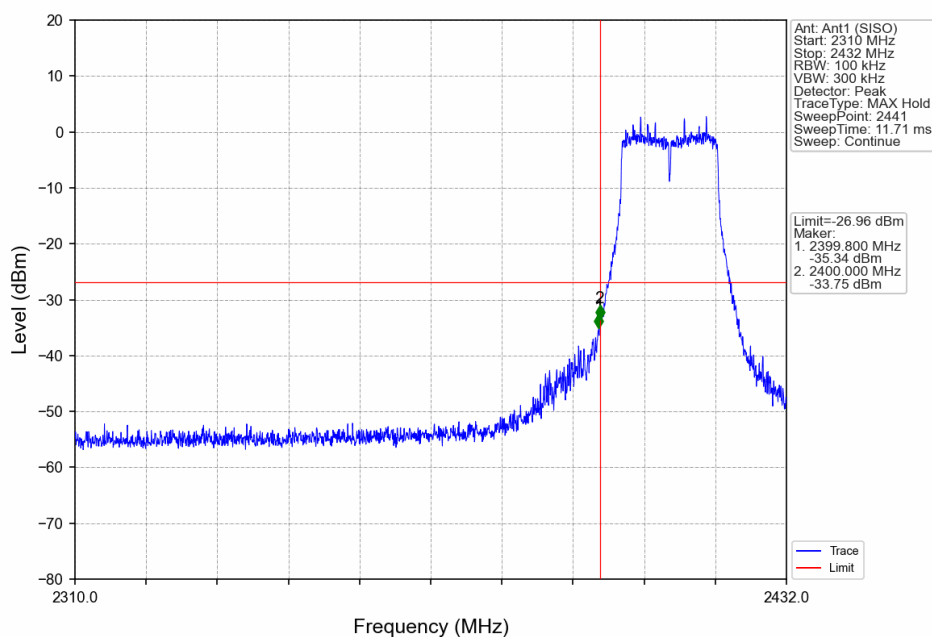
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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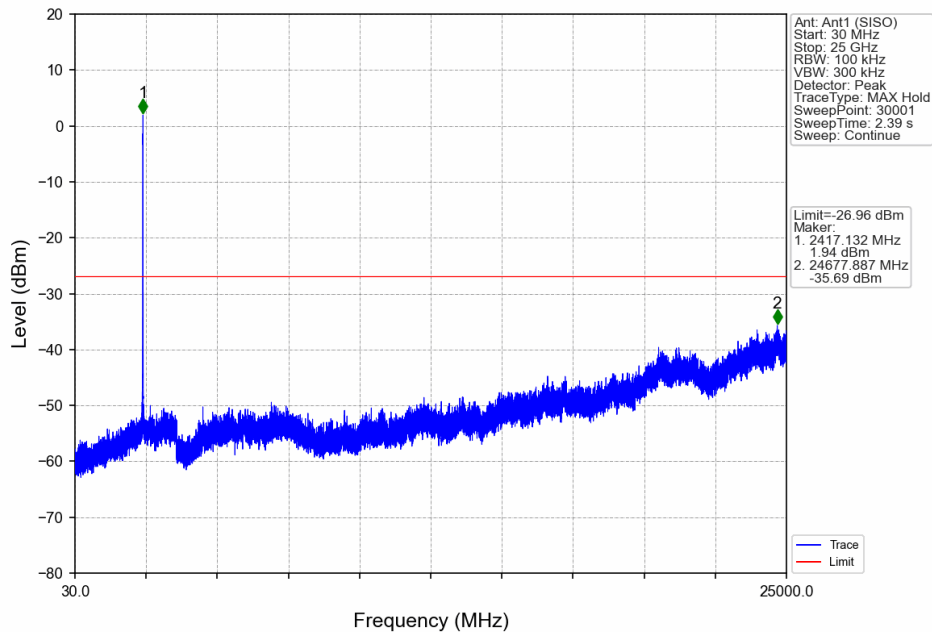
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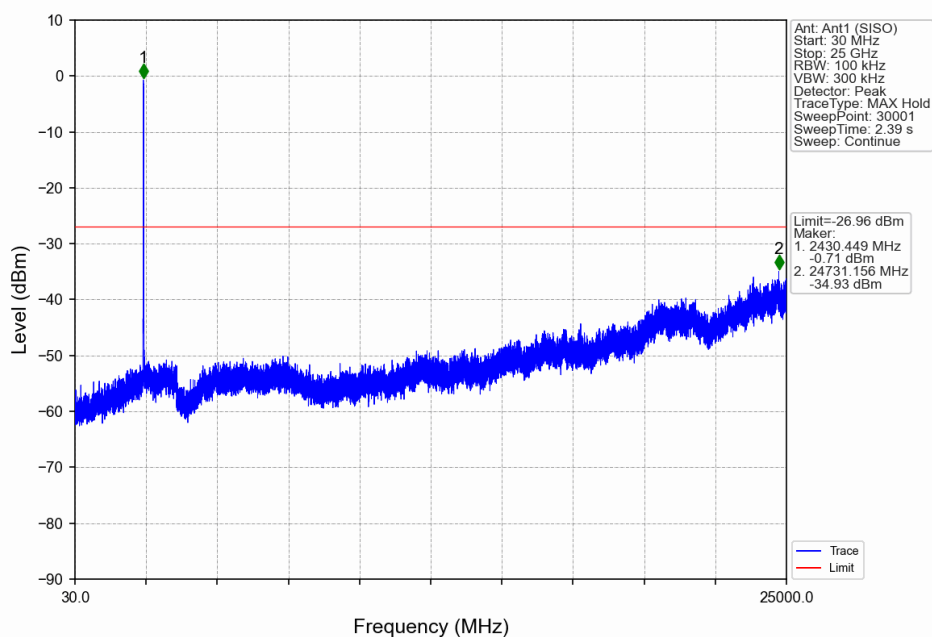
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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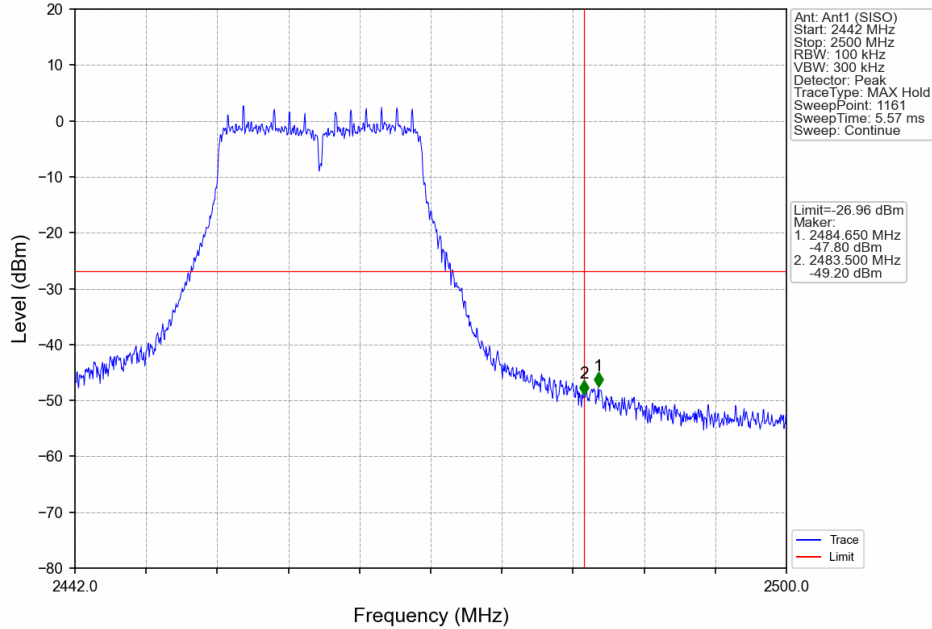
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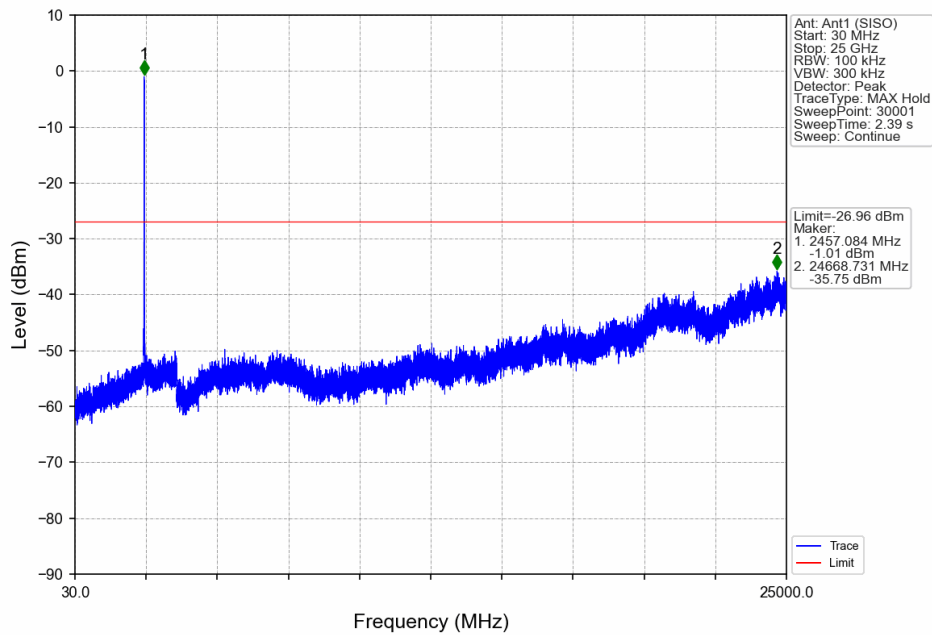
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### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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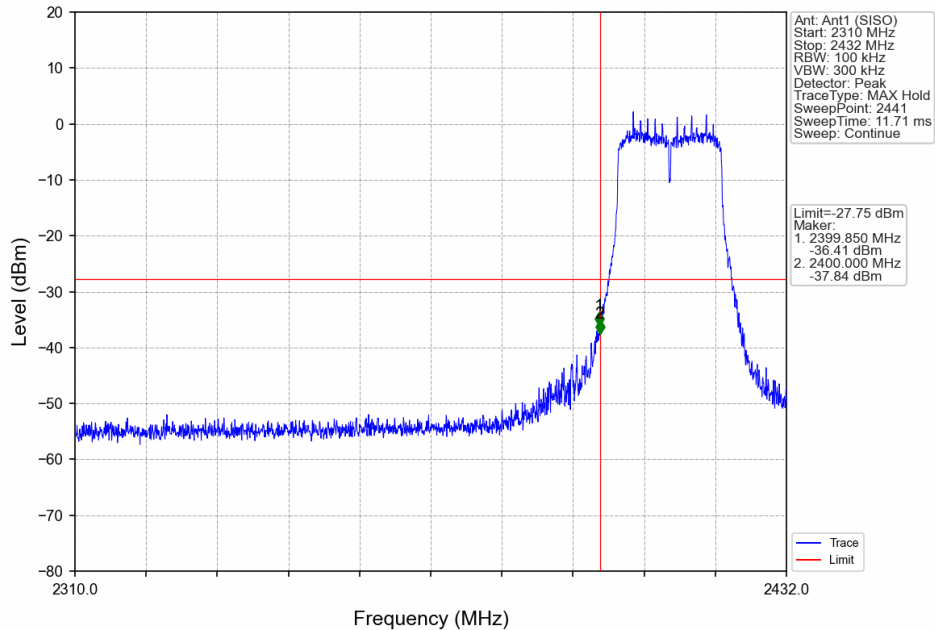
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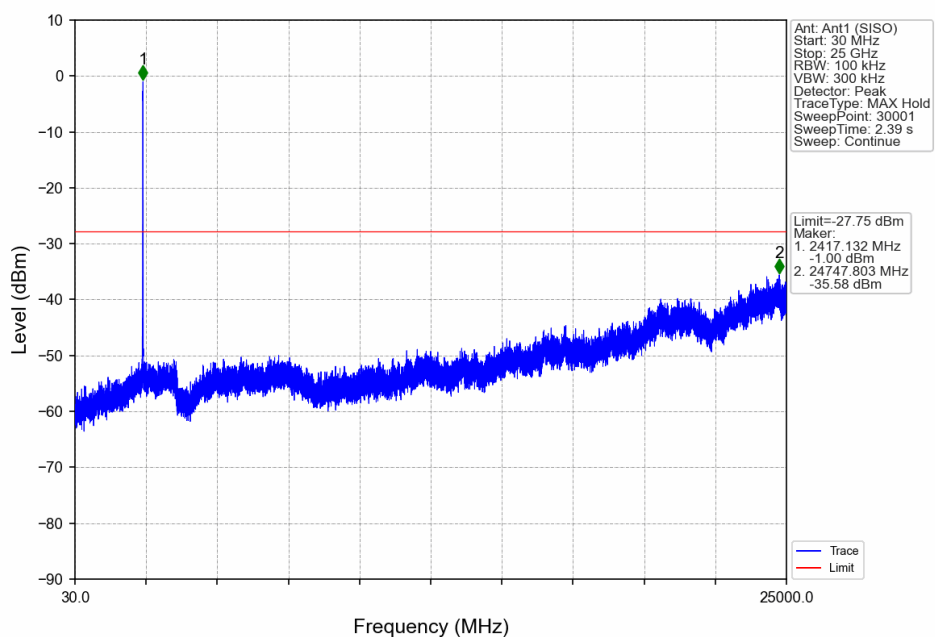
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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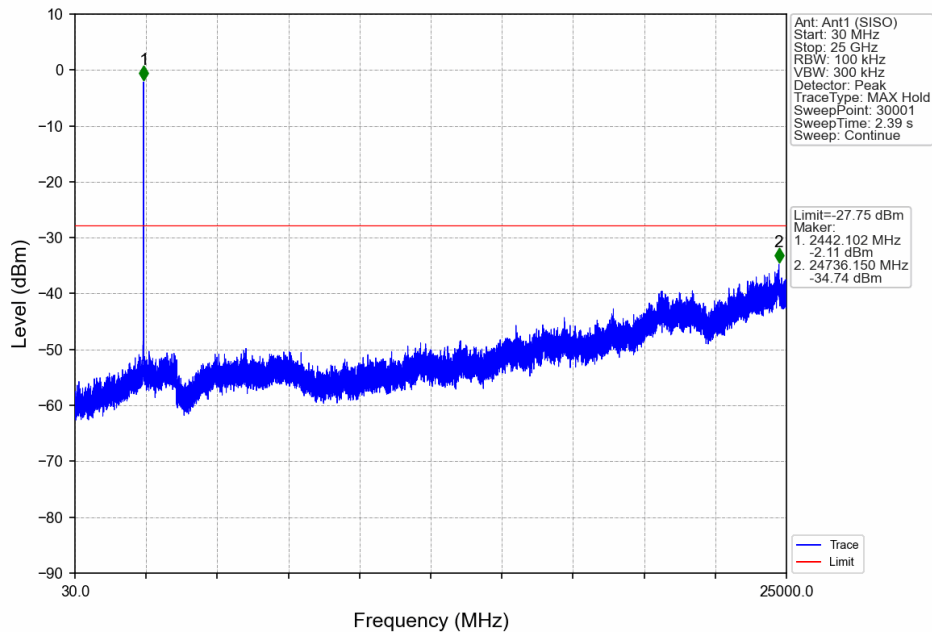
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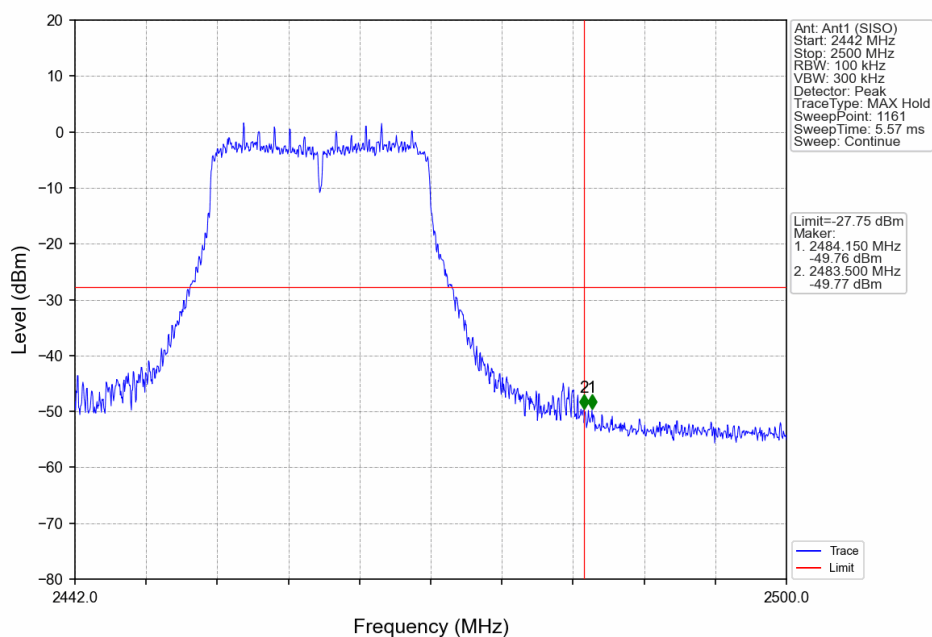
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### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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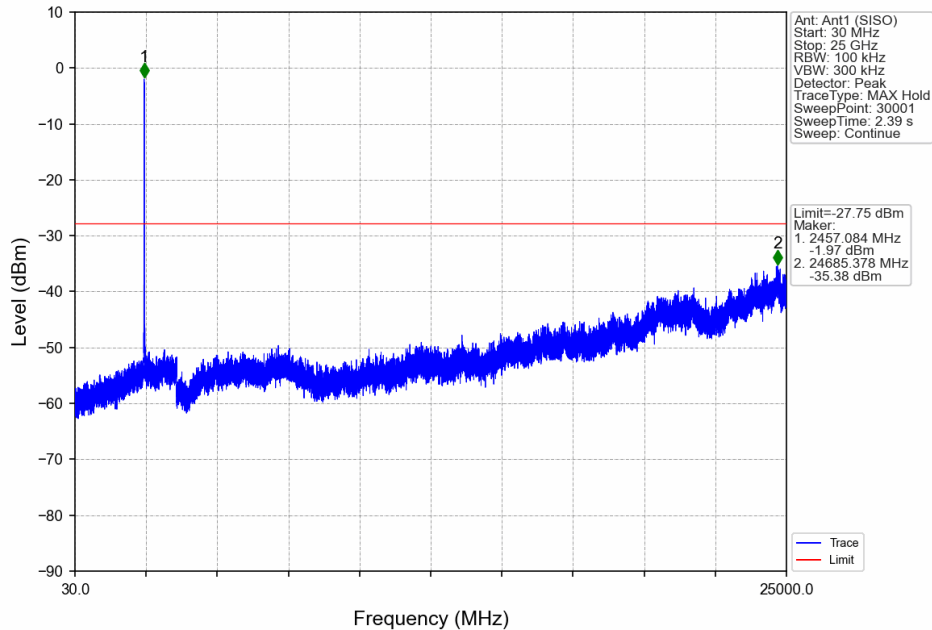
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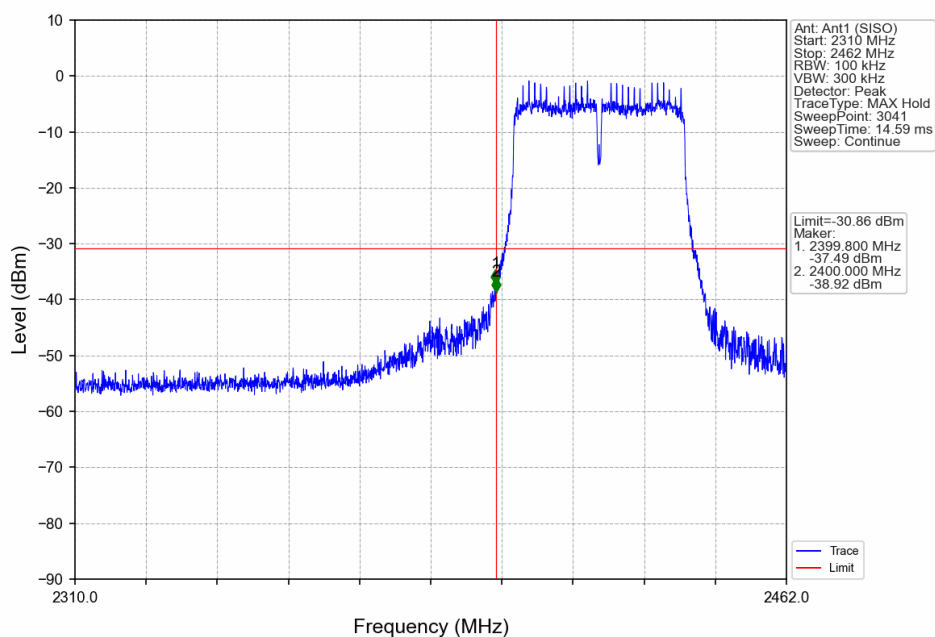
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### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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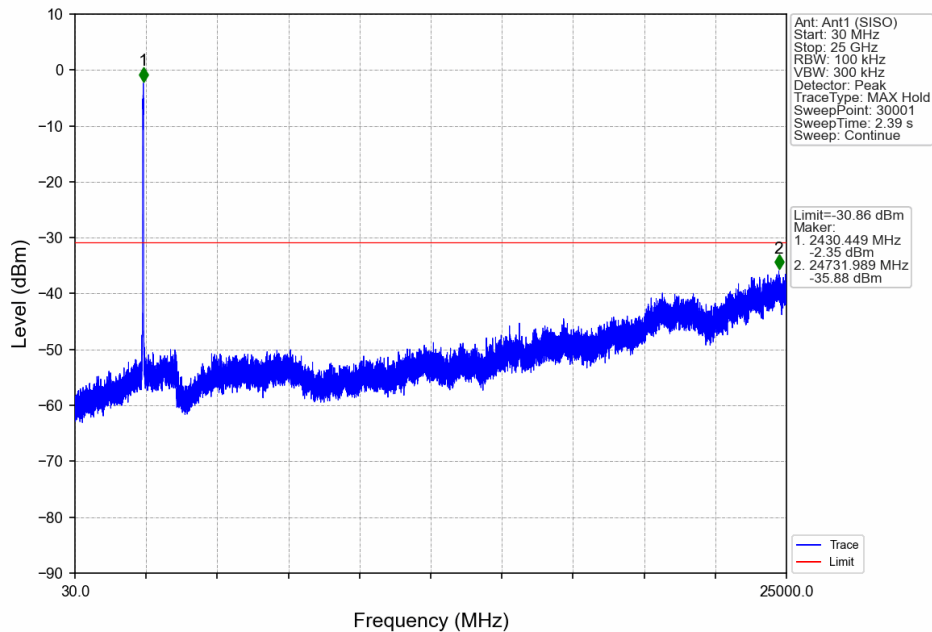
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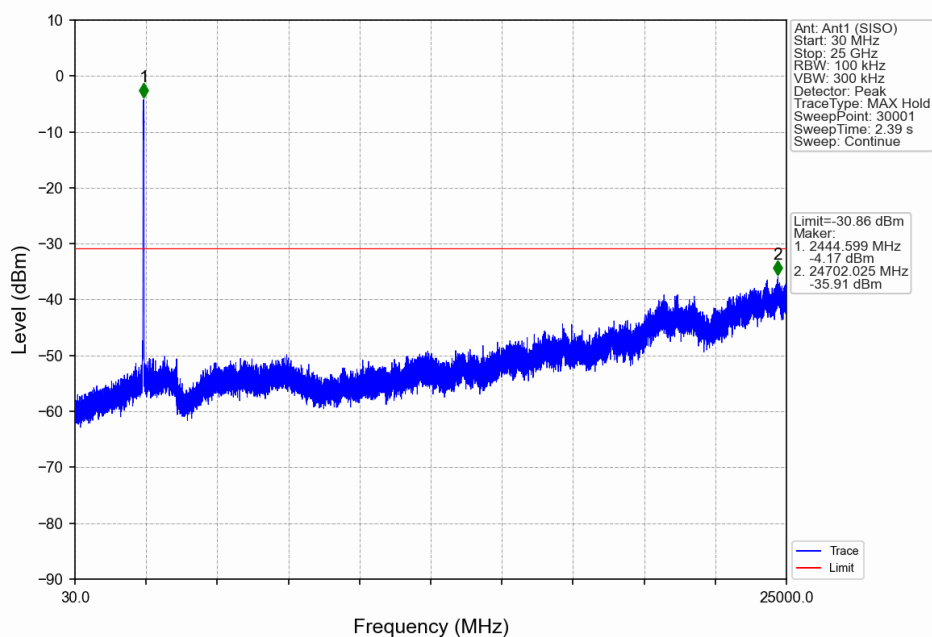
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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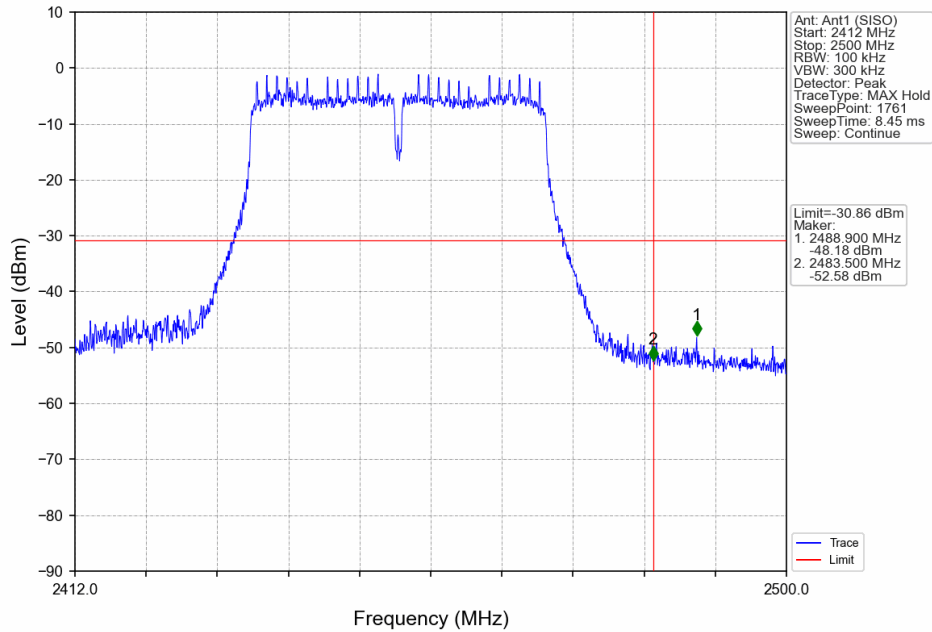
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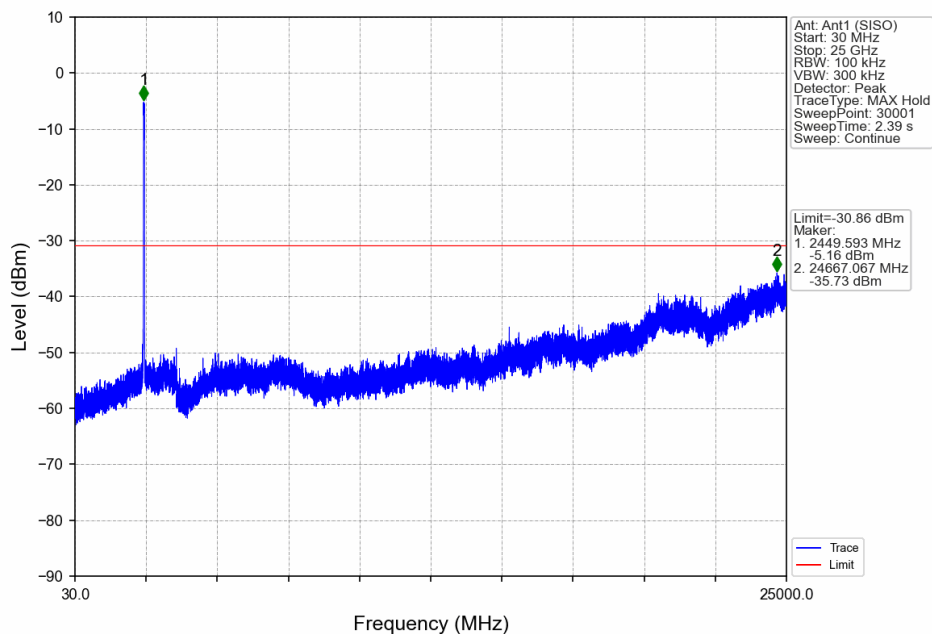
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### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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



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## For Wi-Fi module: RTL8189FTV

## 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	12.446	22.710	54.80	2.61	27.92
		2437	12.420	12.590	98.65	0.06	1.00
		2462	12.420	12.580	98.73	0.06	0.92
802.11g	SISO	2412	2.064	2.216	93.14	0.31	4.79
		2437	2.065	2.235	92.39	0.34	4.66
		2462	2.072	2.136	97.00	0.13	1.66
802.11n (HT20)	SISO	2412	1.927	2.092	92.11	0.36	6.39
		2437	1.927	2.091	92.16	0.35	5.92
		2462	1.921	2.082	92.27	0.35	5.52
802.11n (HT40)	SISO	2422	0.950	1.079	88.04	0.55	8.93
		2437	0.945	1.079	87.58	0.58	8.86
		2452	0.945	1.061	89.07	0.50	7.37



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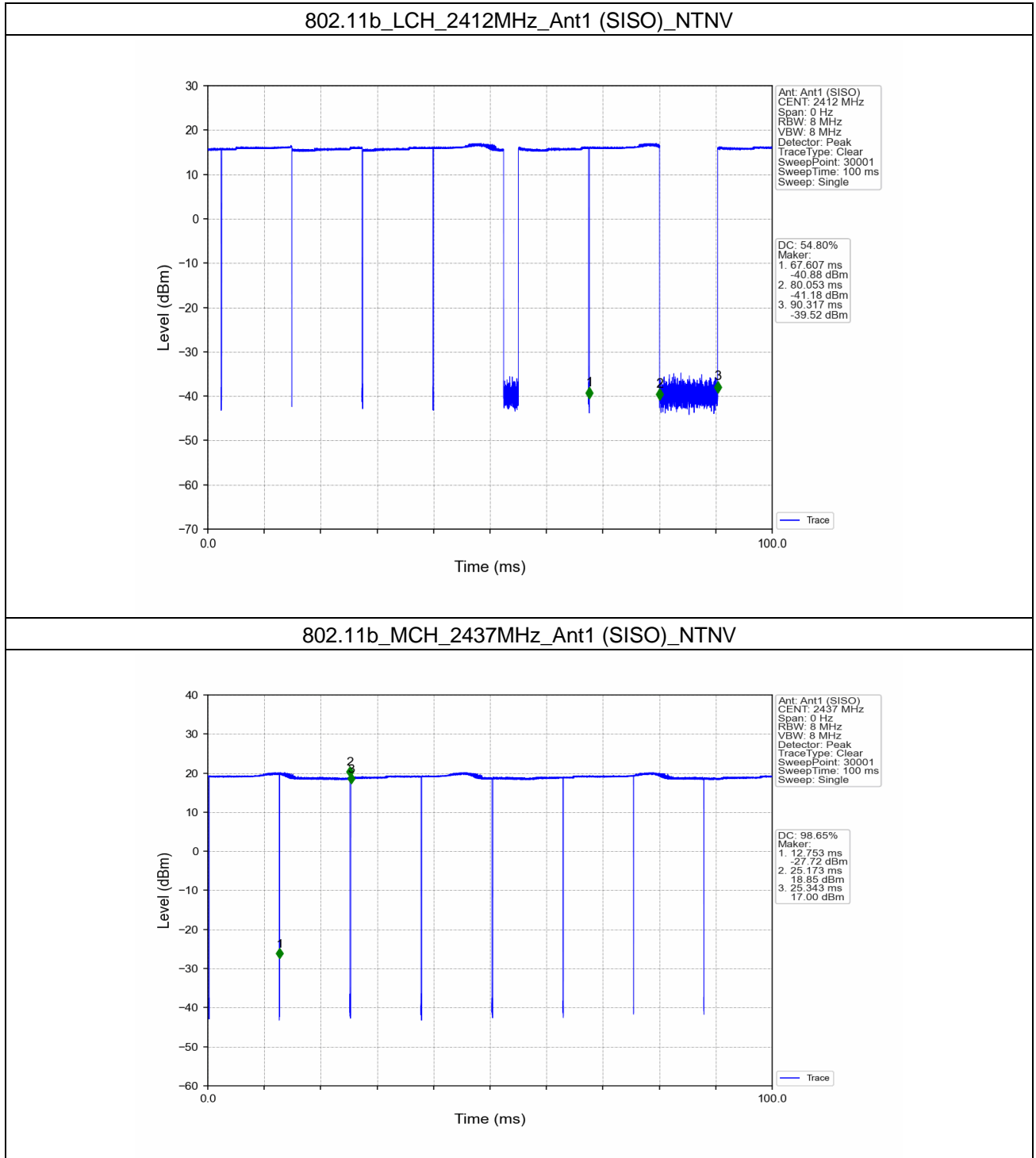
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### 1.1.2 Test Graph



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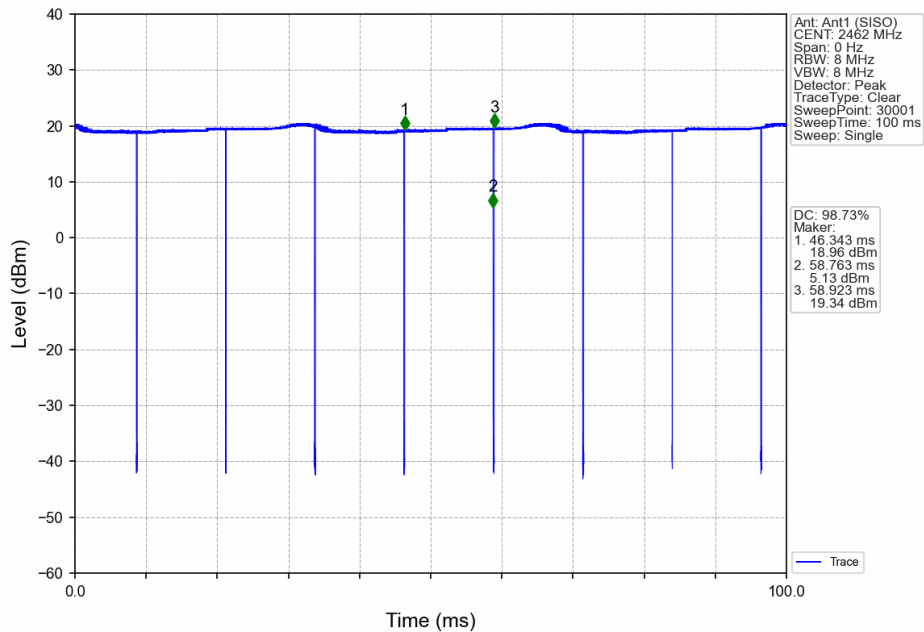
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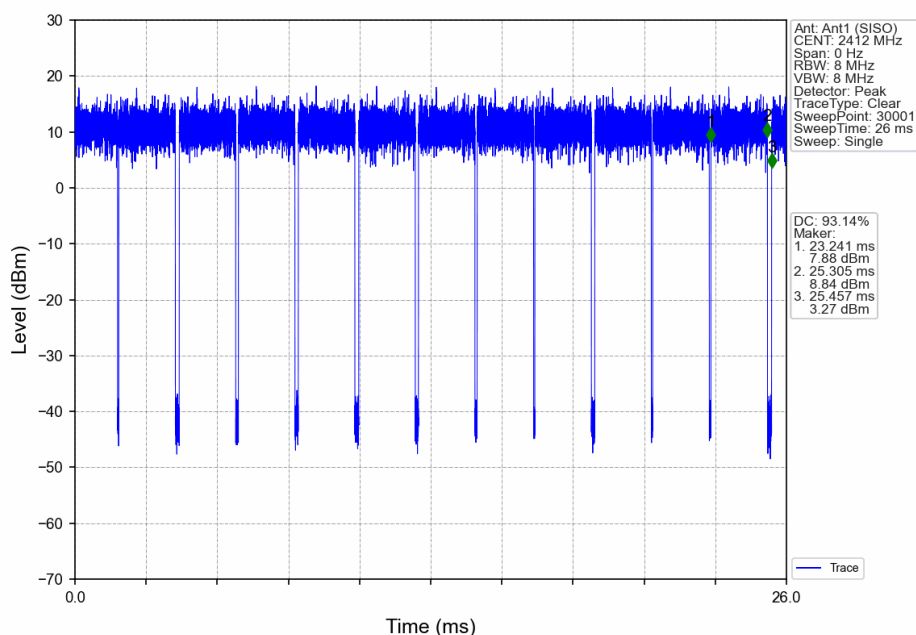
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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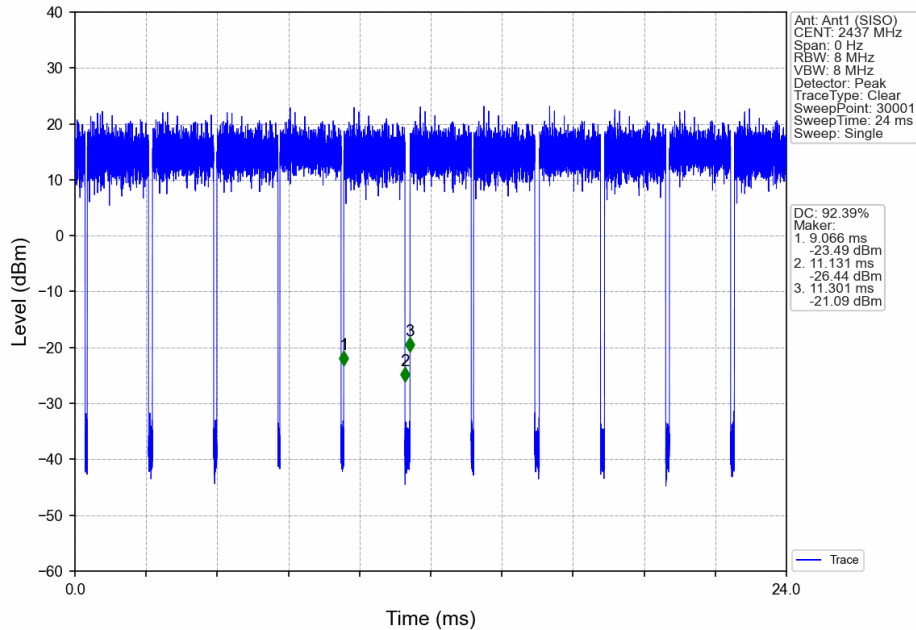
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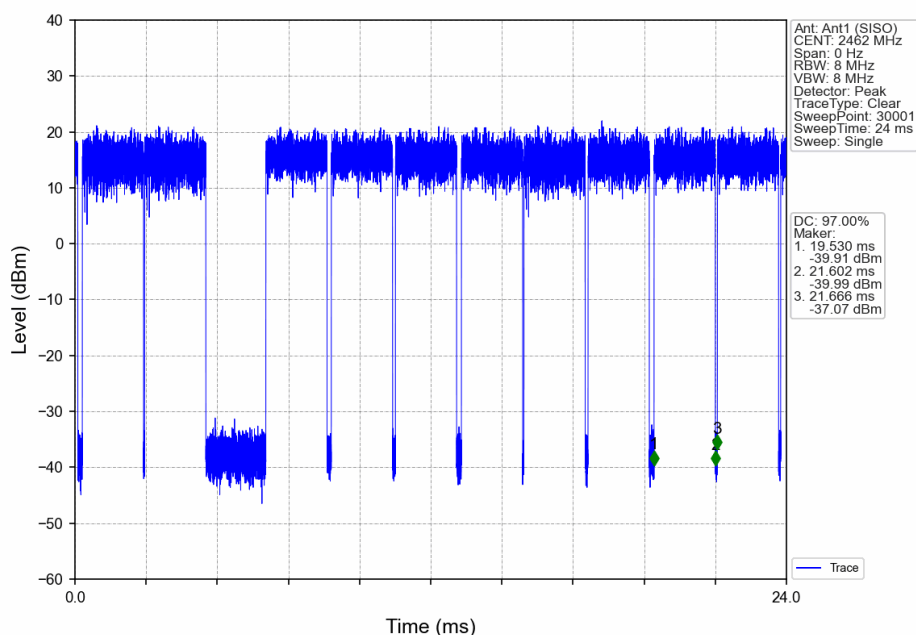
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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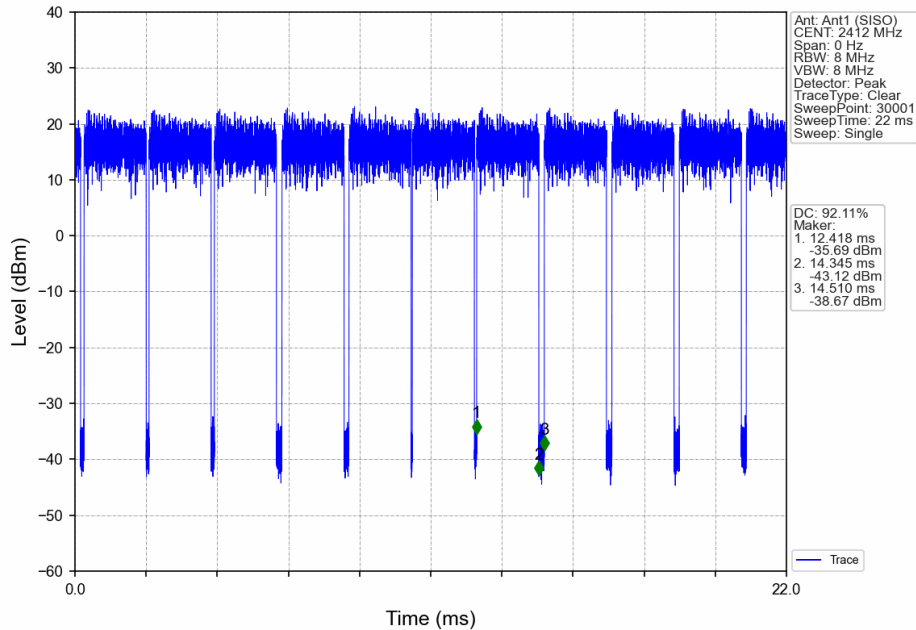
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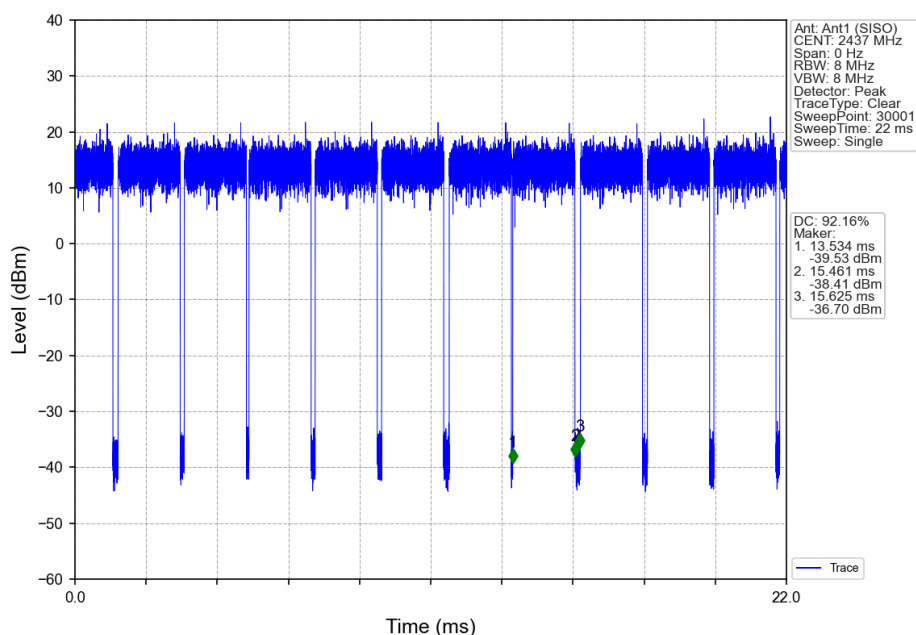
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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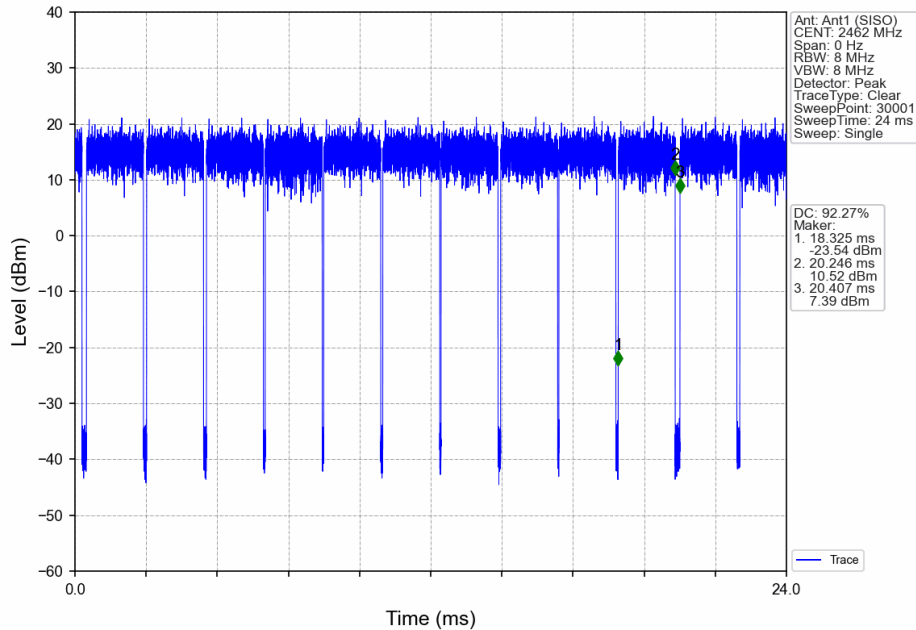
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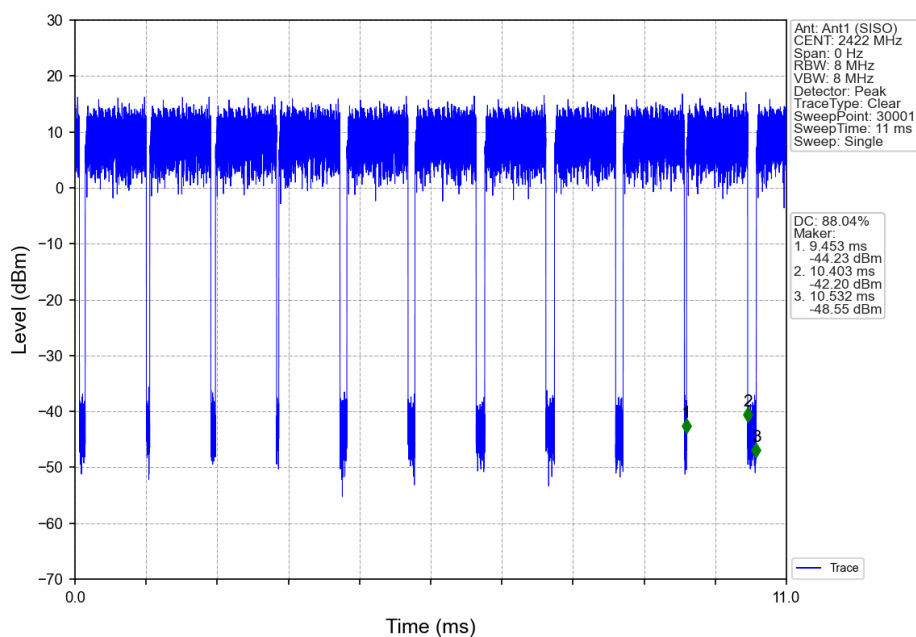
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### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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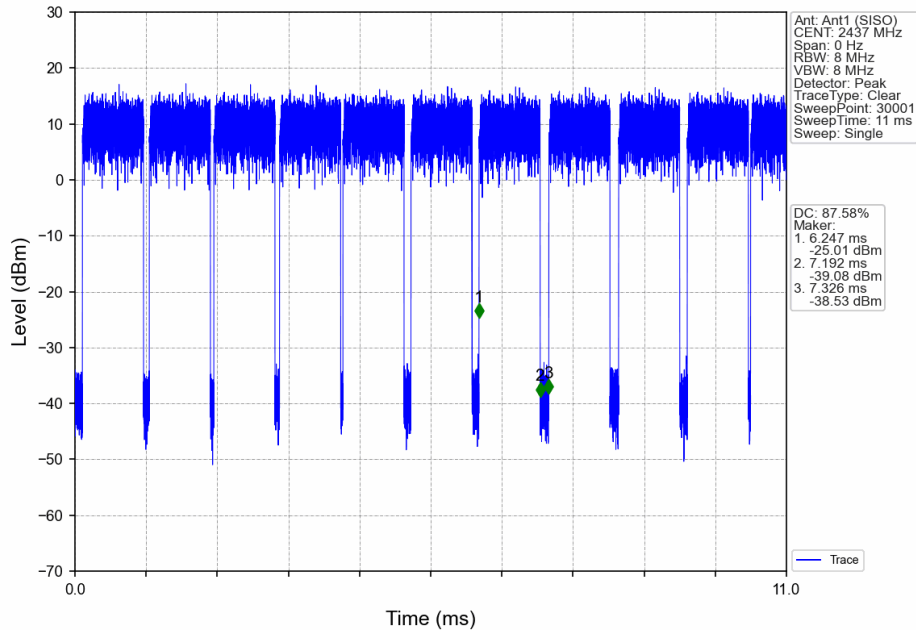
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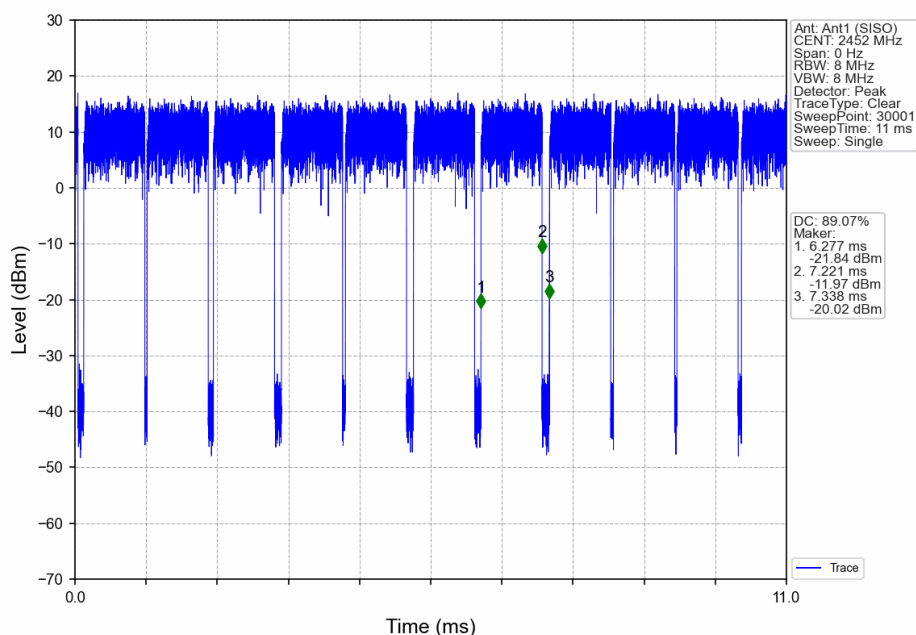
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 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	13.478	Pass
		2437	1	13.393	Pass
		2462	1	13.319	Pass
802.11g	SISO	2412	1	17.751	Pass
		2437	1	17.648	Pass
		2462	1	17.704	Pass
802.11n (HT20)	SISO	2412	1	18.647	Pass
		2437	1	18.447	Pass
		2462	1	18.780	Pass
802.11n (HT40)	SISO	2422	1	36.895	Pass
		2437	1	36.571	Pass
		2452	1	37.017	Pass



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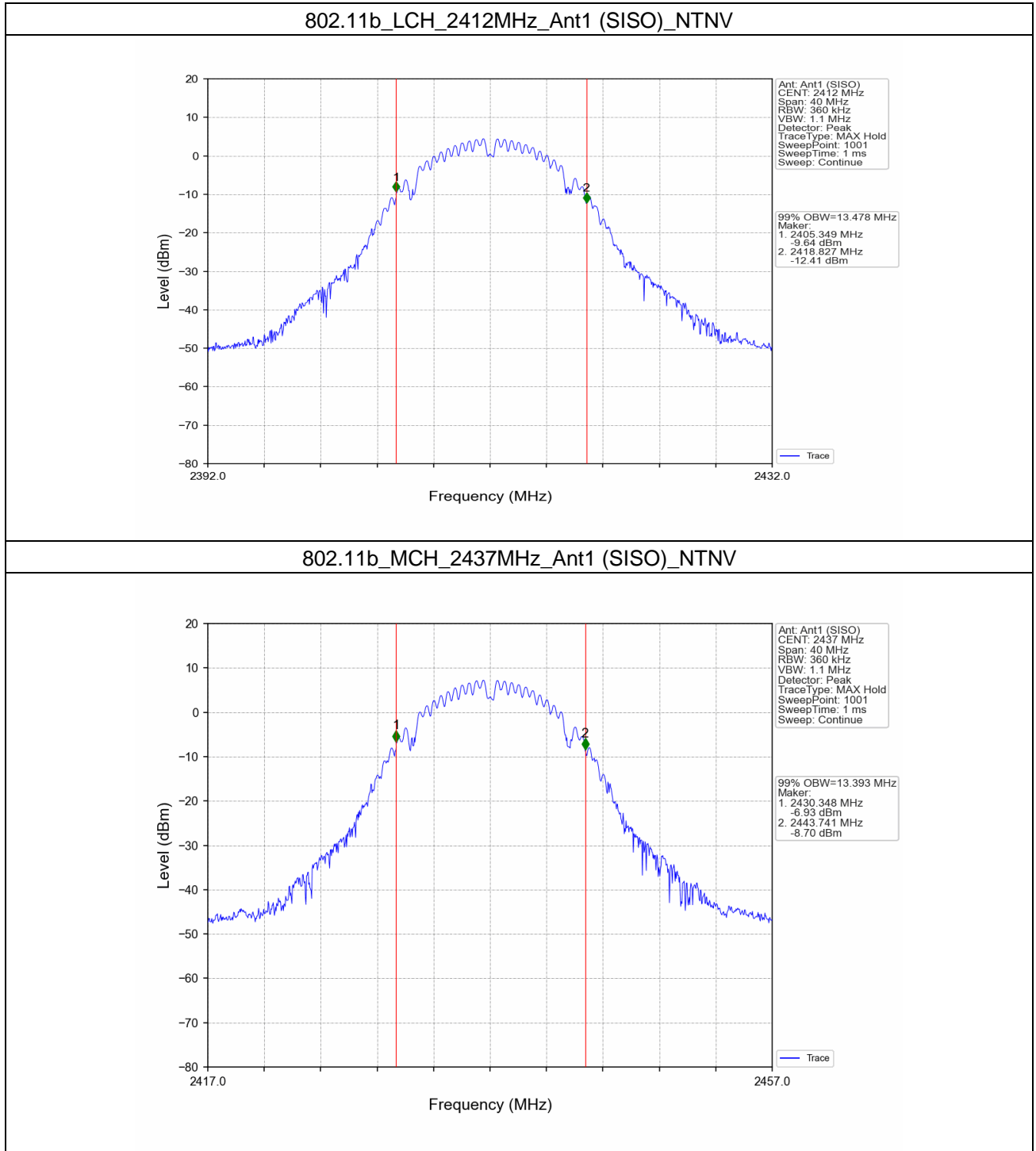
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### 2.1.2 Test Graph



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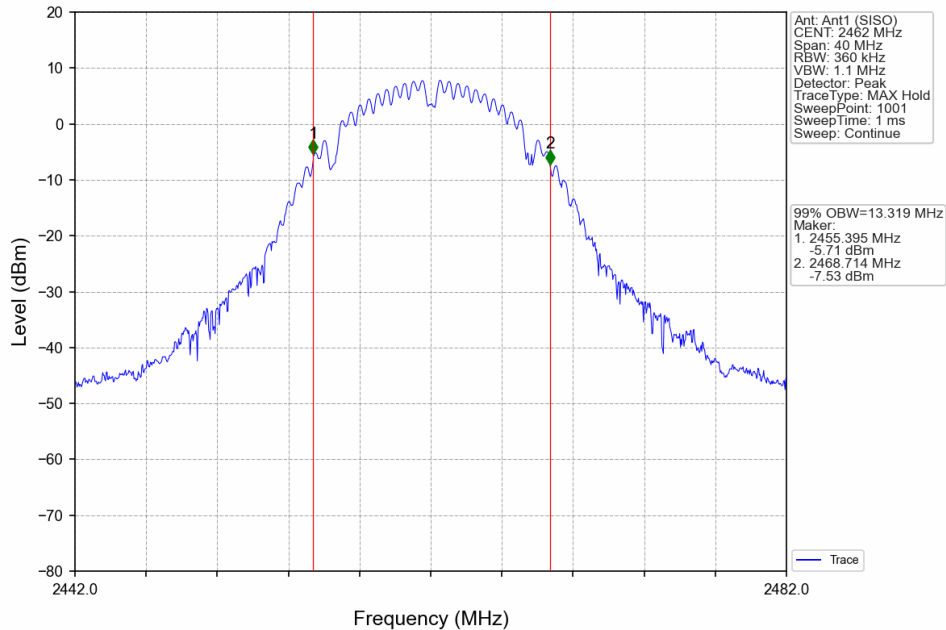
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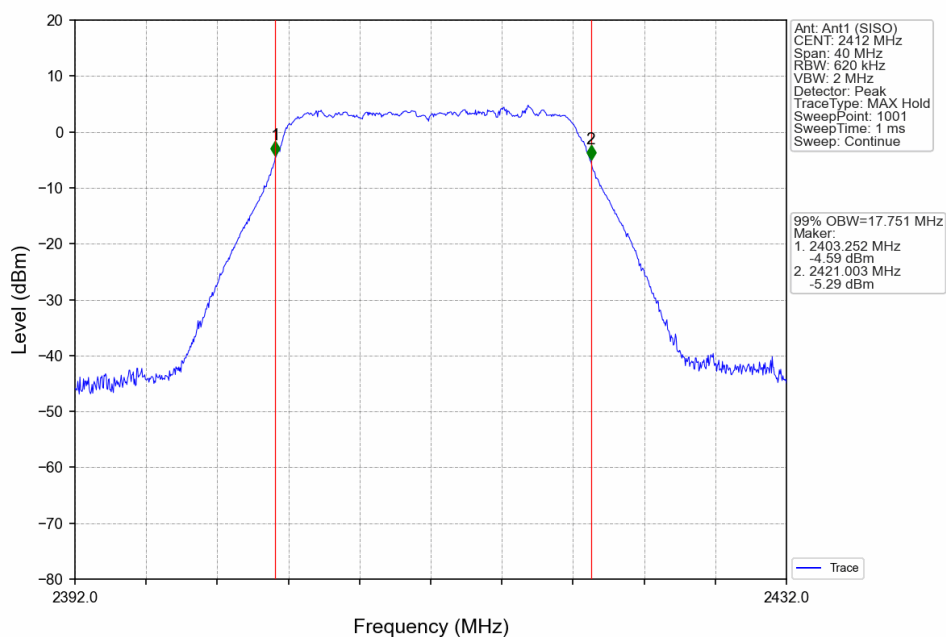
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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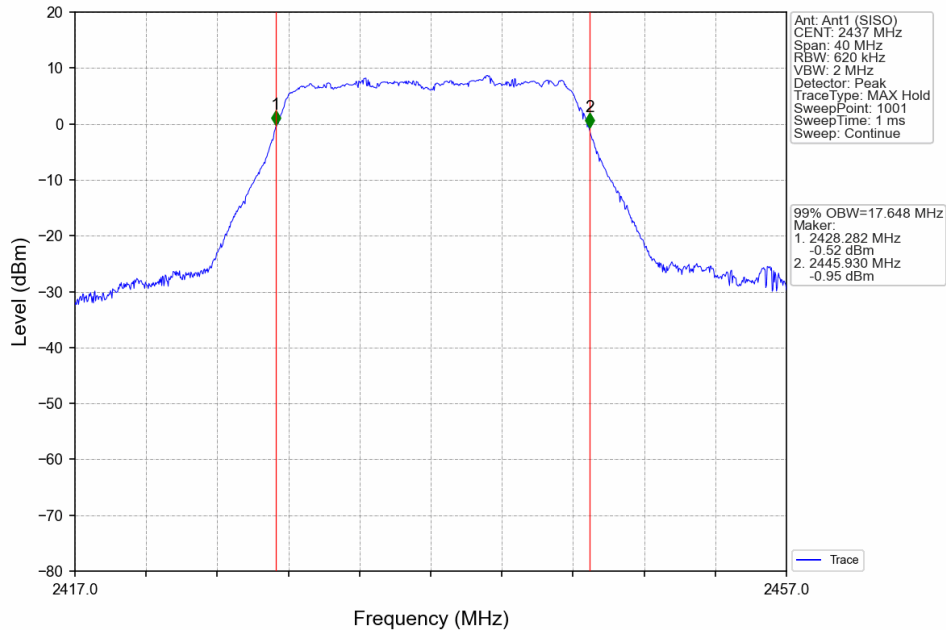
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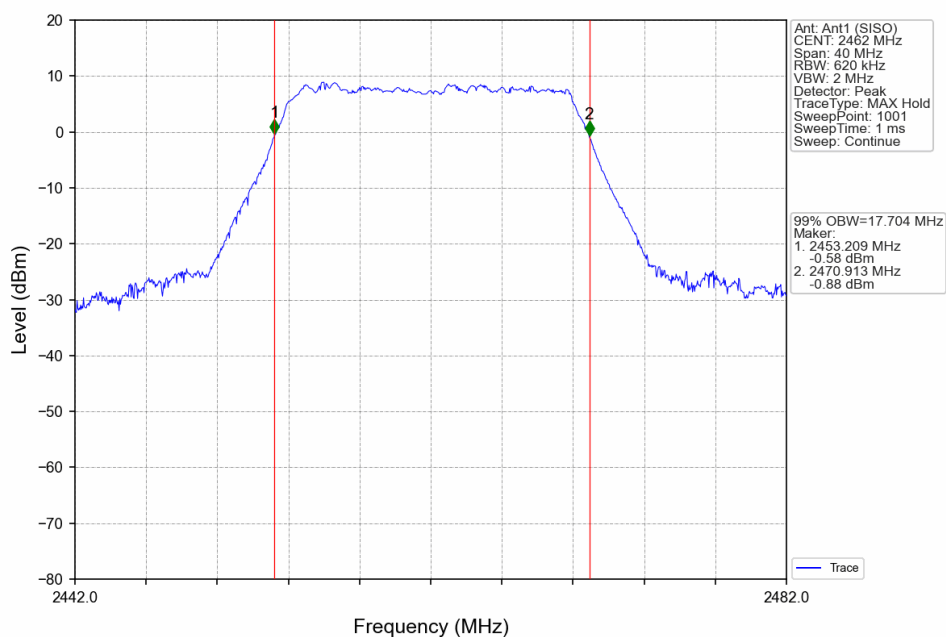
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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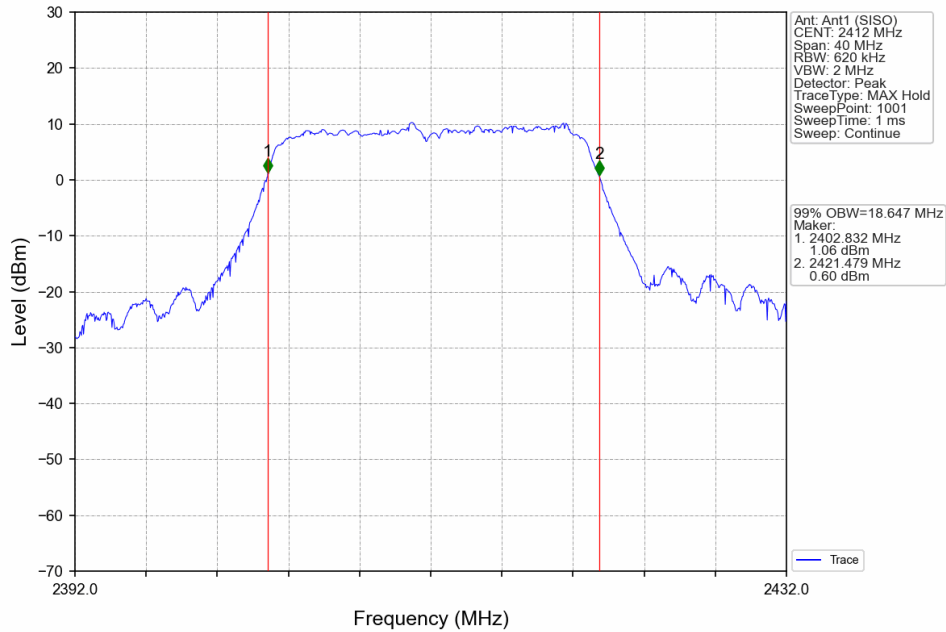
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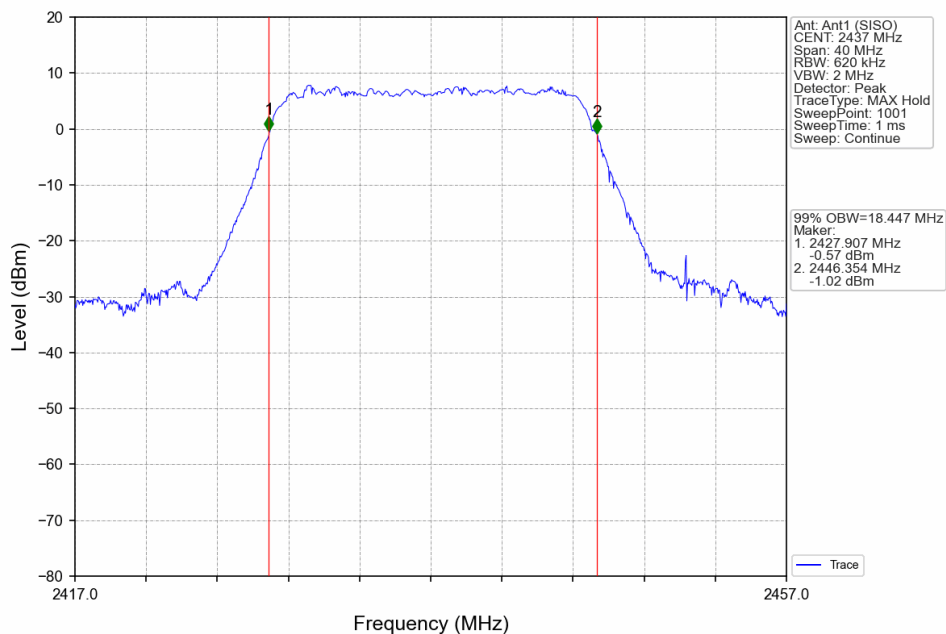
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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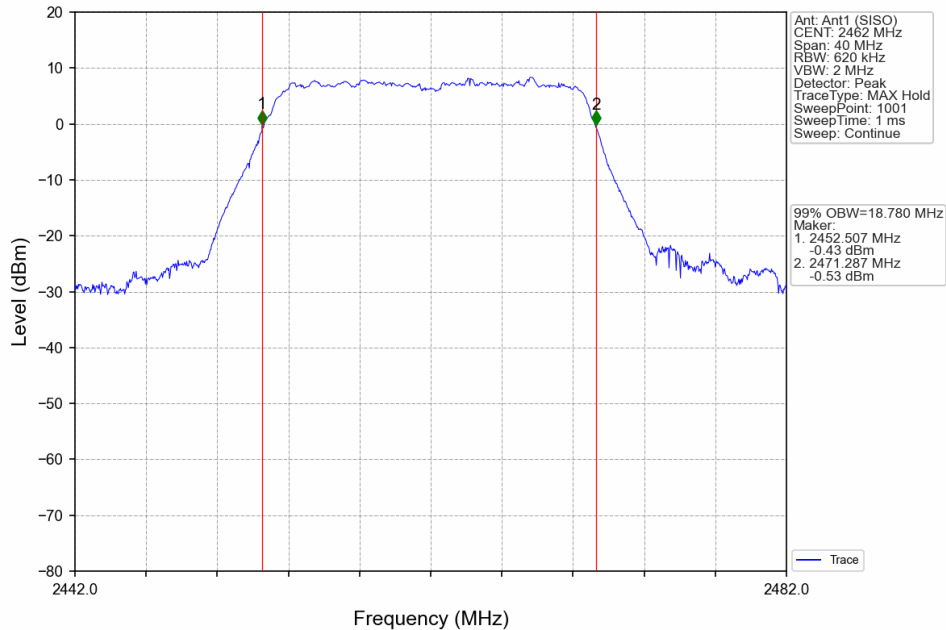
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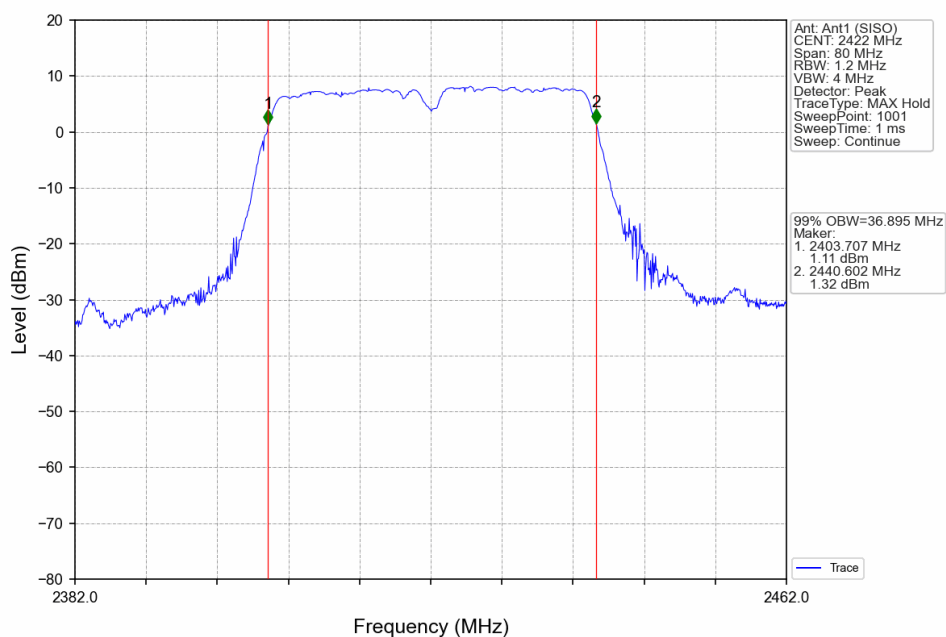
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### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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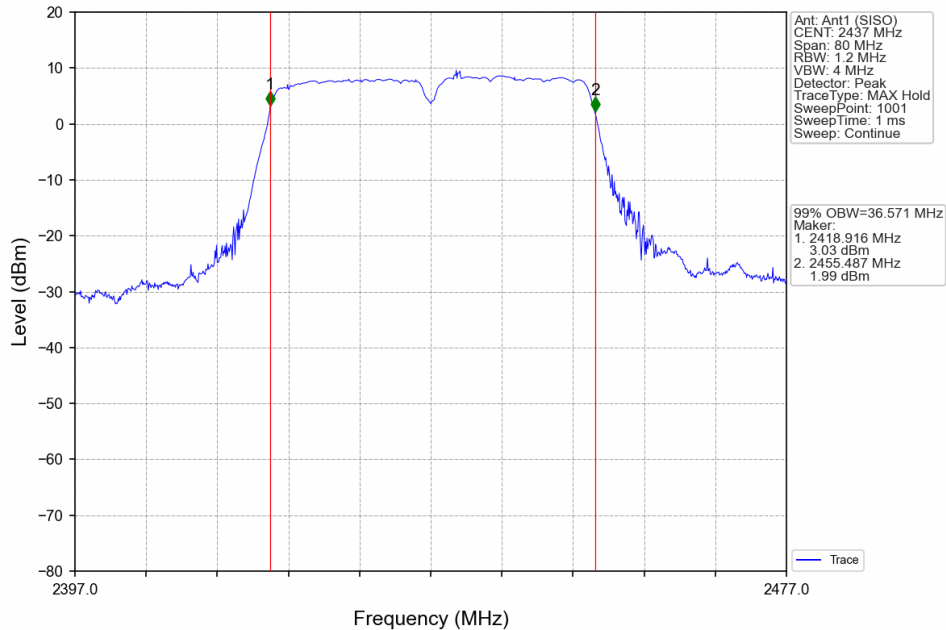
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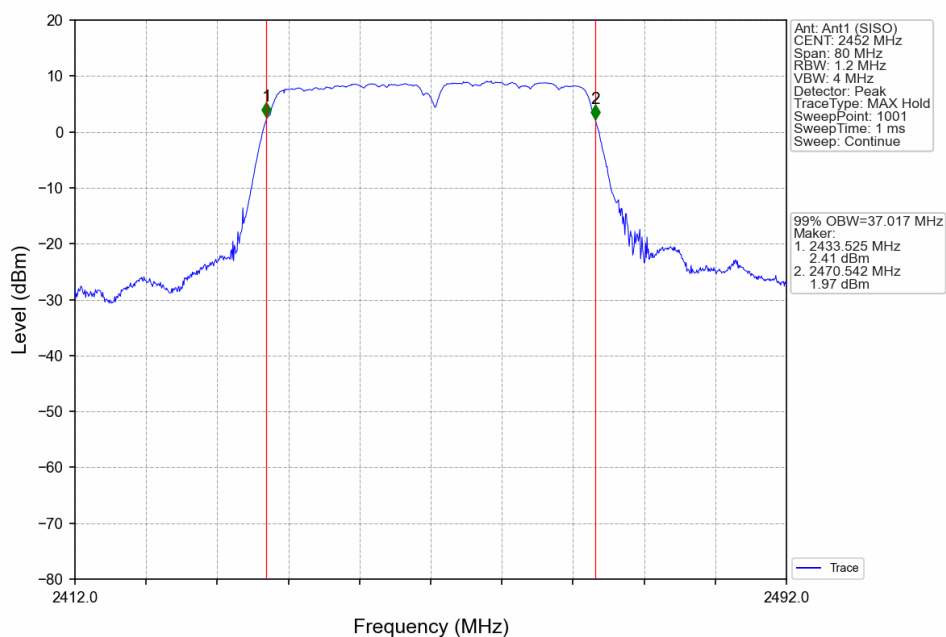
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.057	$\geq 0.5$	Pass
		2437	1	9.059	$\geq 0.5$	Pass
		2462	1	9.063	$\geq 0.5$	Pass
802.11g	SISO	2412	1	16.391	$\geq 0.5$	Pass
		2437	1	16.380	$\geq 0.5$	Pass
		2462	1	16.384	$\geq 0.5$	Pass
802.11n (HT20)	SISO	2412	1	17.580	$\geq 0.5$	Pass
		2437	1	17.565	$\geq 0.5$	Pass
		2462	1	17.583	$\geq 0.5$	Pass
802.11n (HT40)	SISO	2422	1	35.758	$\geq 0.5$	Pass
		2437	1	35.764	$\geq 0.5$	Pass
		2452	1	35.864	$\geq 0.5$	Pass



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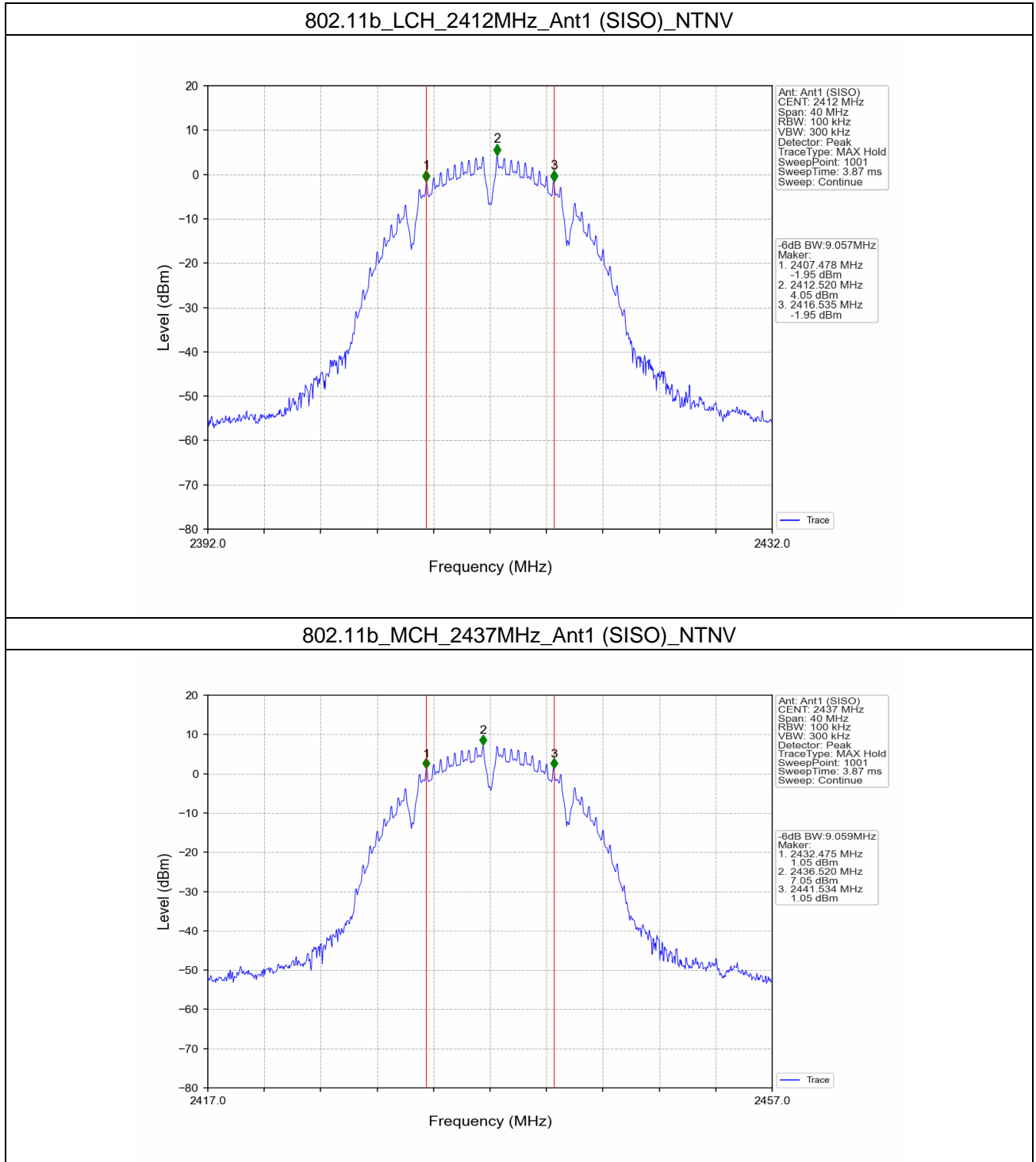
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### 2.2.2 Test Graph



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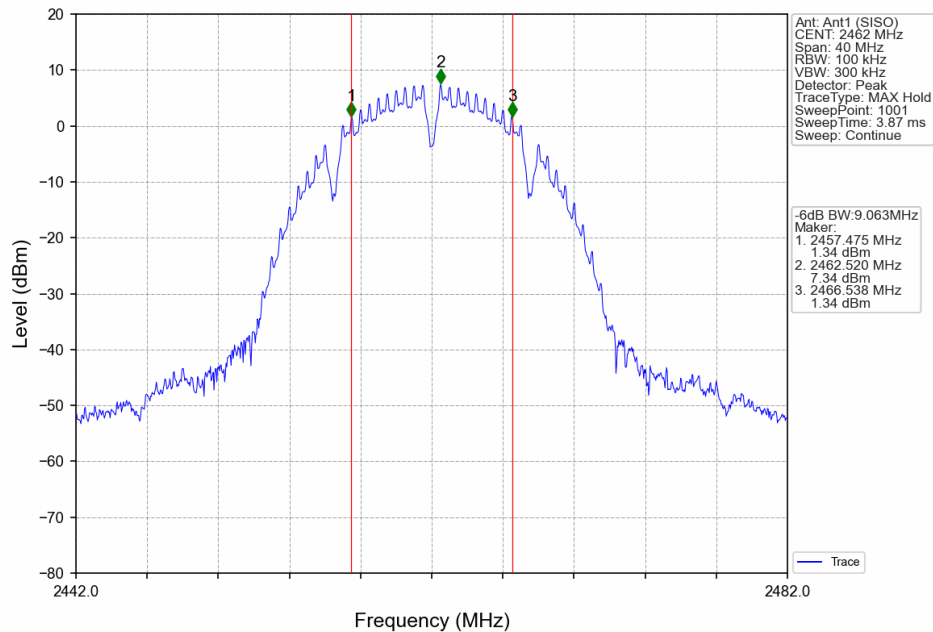
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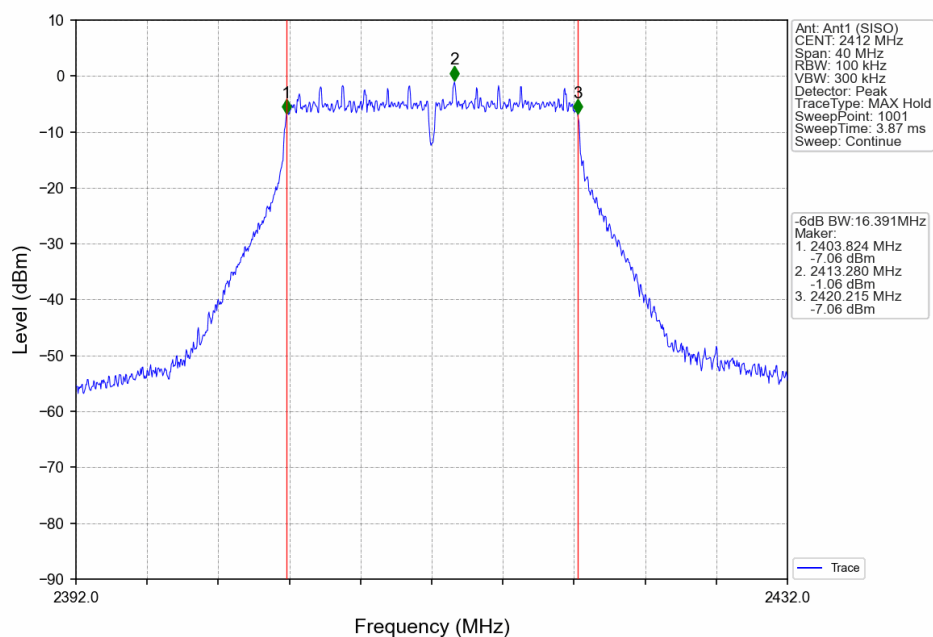
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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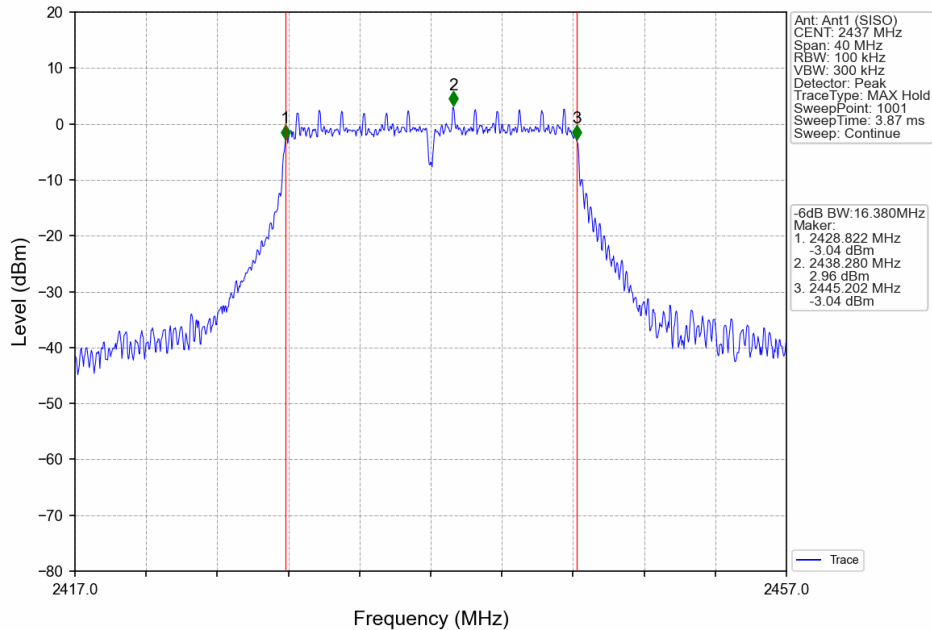
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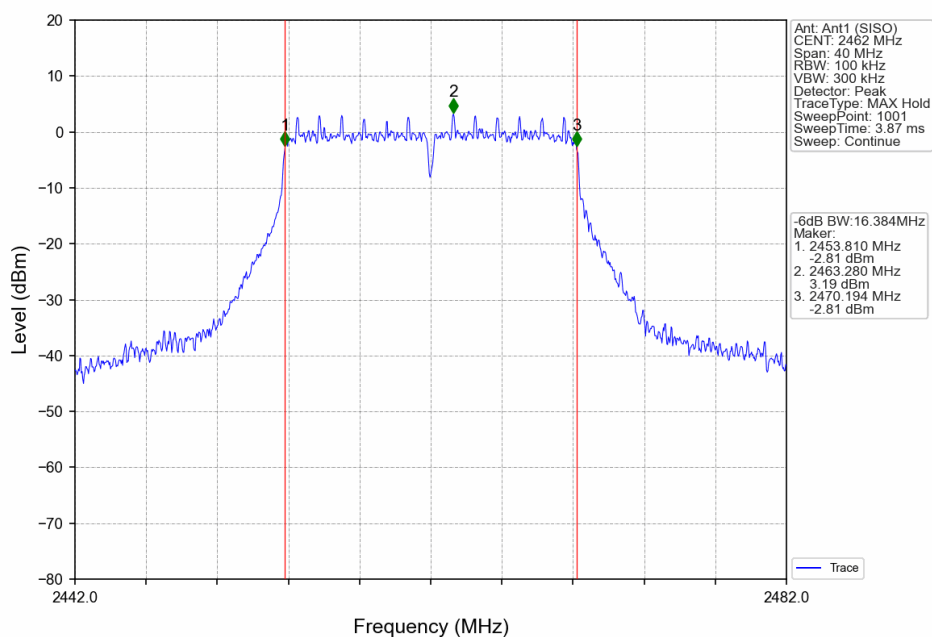
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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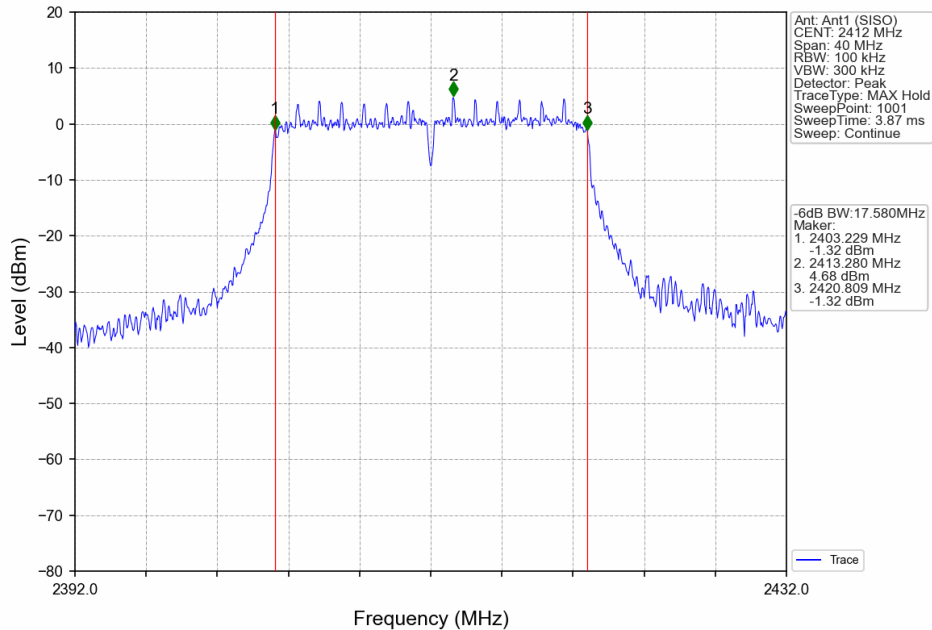
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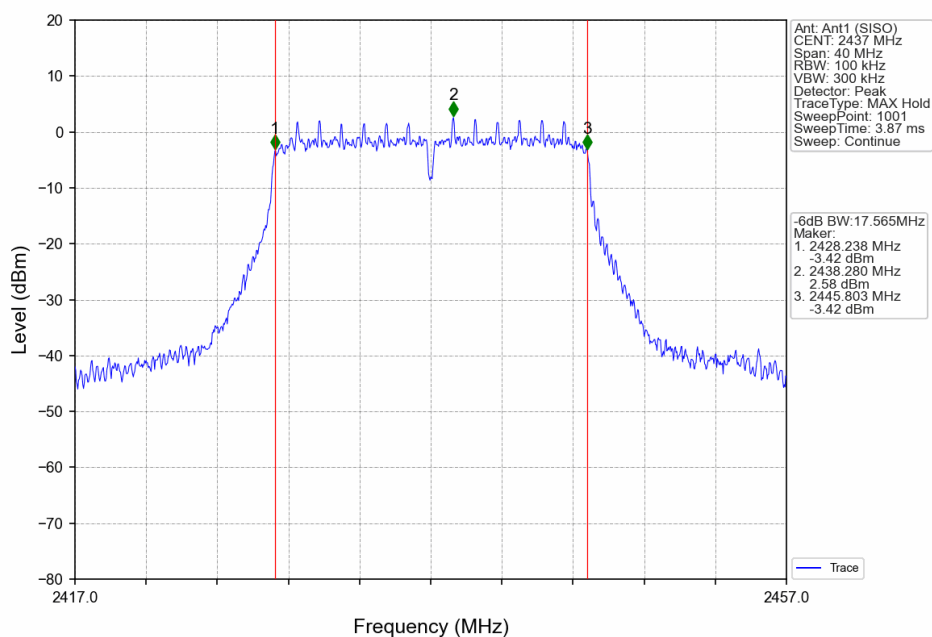
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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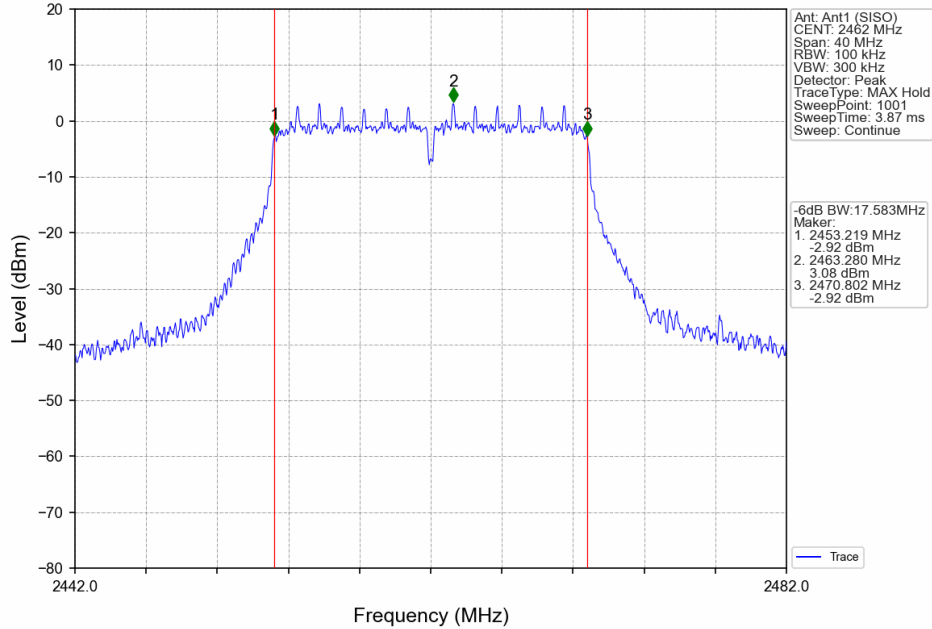
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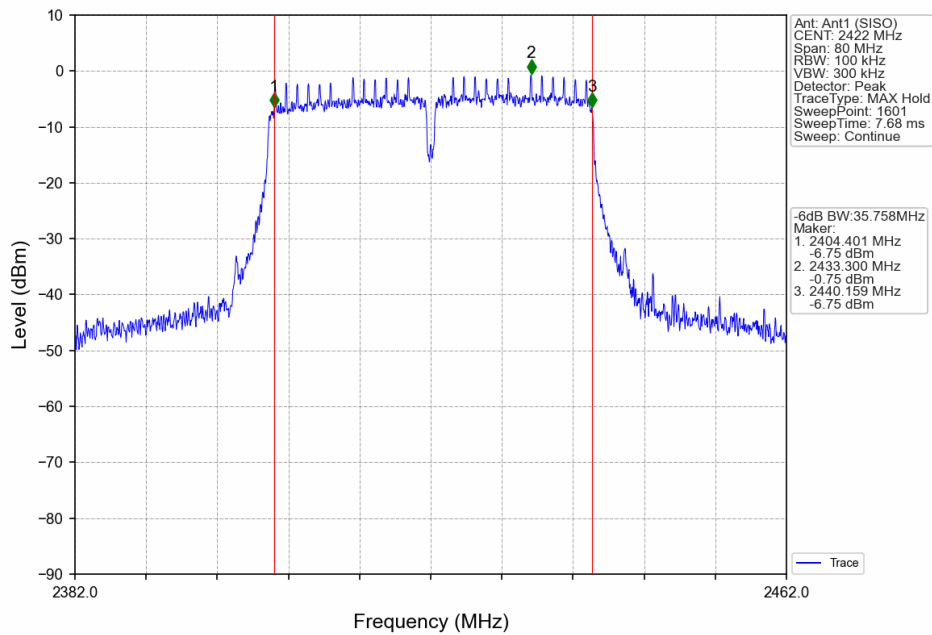
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### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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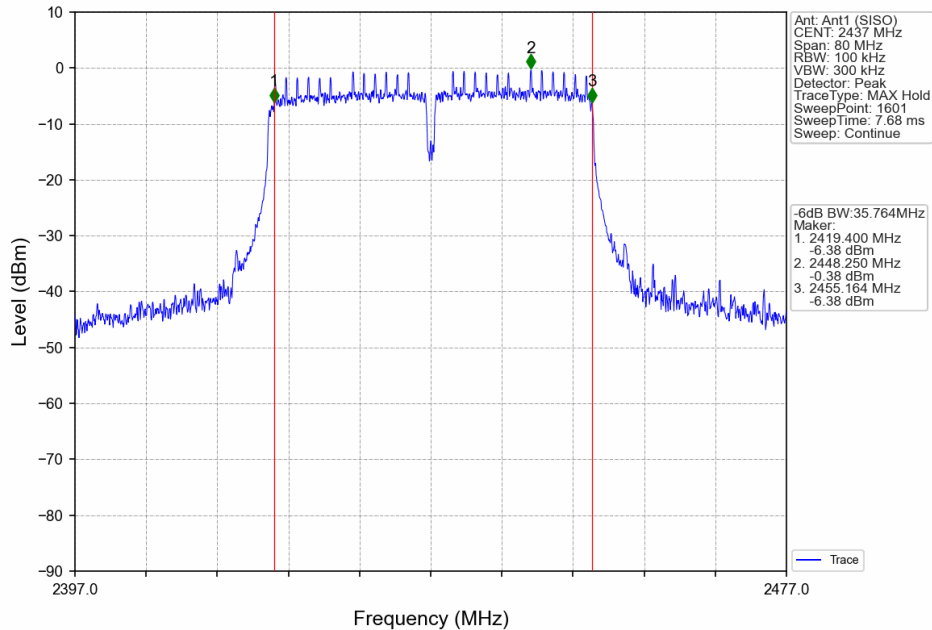
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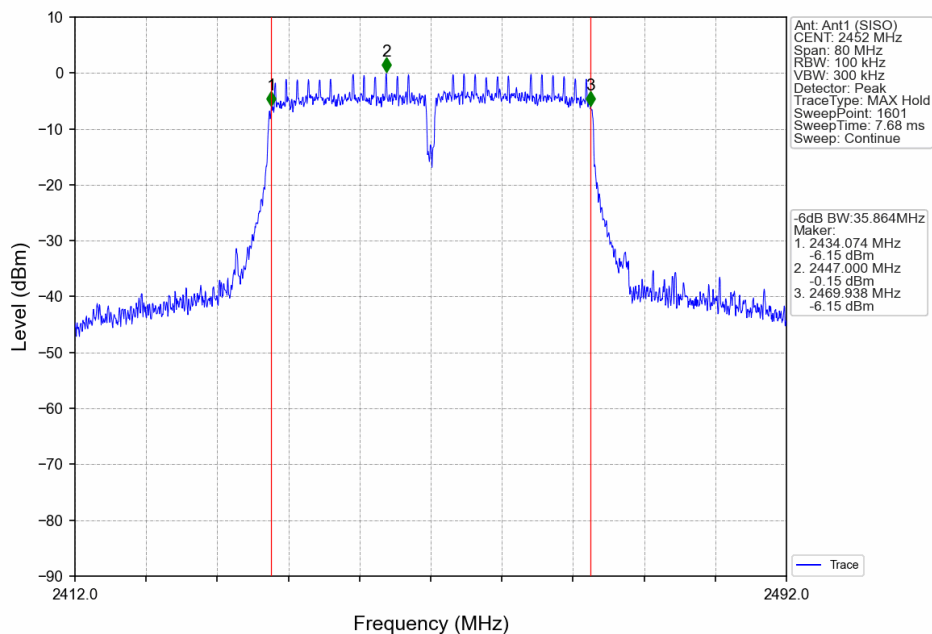
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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### 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	14.79	<=30	Pass
		2437	15.02	<=30	Pass
		2462	15.22	<=30	Pass
802.11g	SISO	2412	14.46	<=30	Pass
		2437	13.94	<=30	Pass
		2462	13.98	<=30	Pass
802.11n (HT20)	SISO	2412	12.69	<=30	Pass
		2437	13.51	<=30	Pass
		2462	14.14	<=30	Pass
802.11n (HT40)	SISO	2422	13.10	<=30	Pass
		2437	13.58	<=30	Pass
		2452	13.99	<=30	Pass

Note1: Antenna Gain: Ant1: 4.55dBi;



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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	-7.18	<=8	Pass
		2437	-8.22	<=8	Pass
		2462	-7.00	<=8	Pass
802.11g	SISO	2412	-11.03	<=8	Pass
		2437	-11.80	<=8	Pass
		2462	-10.75	<=8	Pass
802.11n (HT20)	SISO	2412	-12.69	<=8	Pass
		2437	-11.95	<=8	Pass
		2462	-10.78	<=8	Pass
802.11n (HT40)	SISO	2422	-15.60	<=8	Pass
		2437	-15.01	<=8	Pass
		2452	-14.49	<=8	Pass

Note1: Antenna Gain: Ant1: 4.55dBi;



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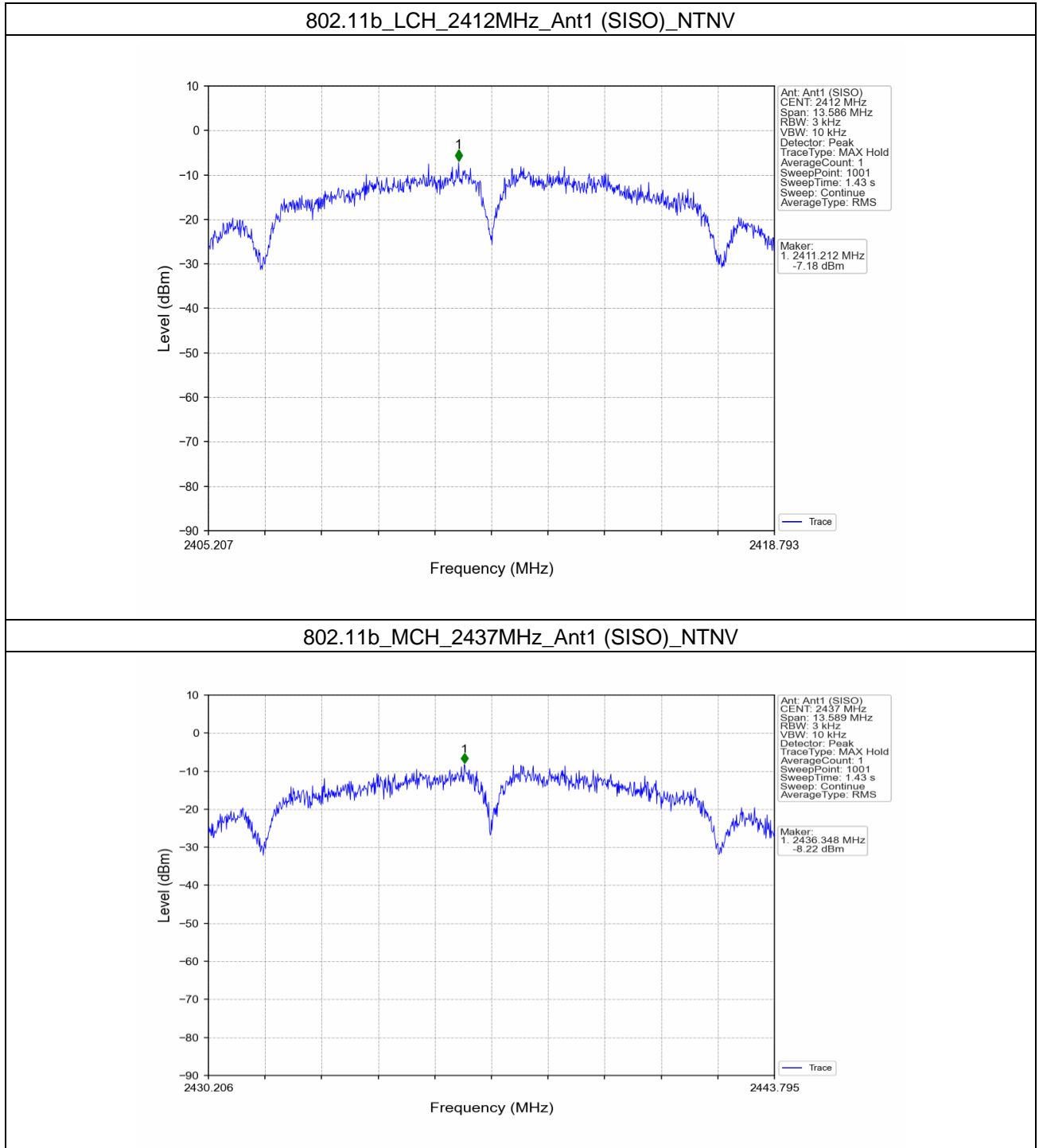
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### 4.1.2 Test Graph



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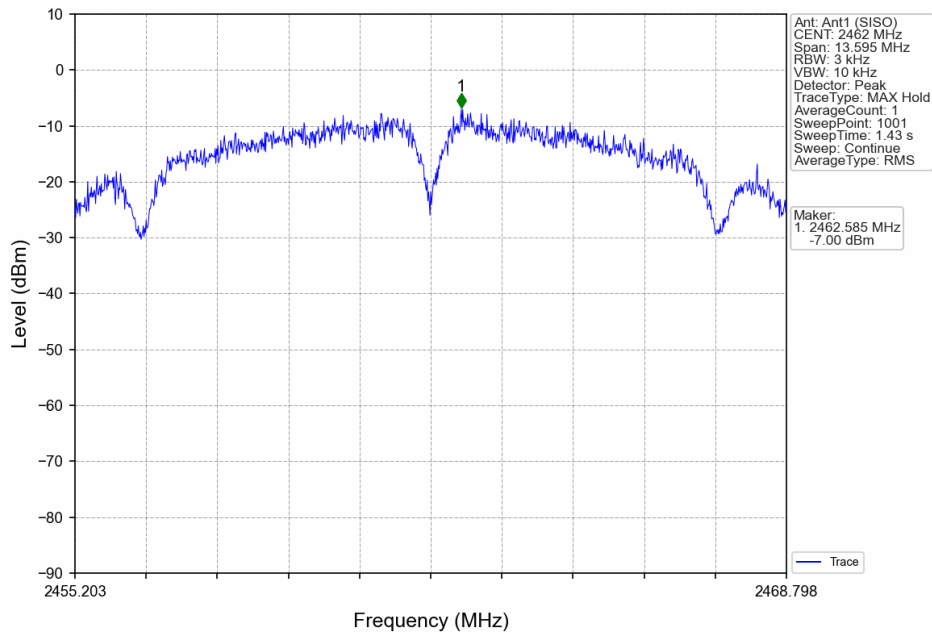
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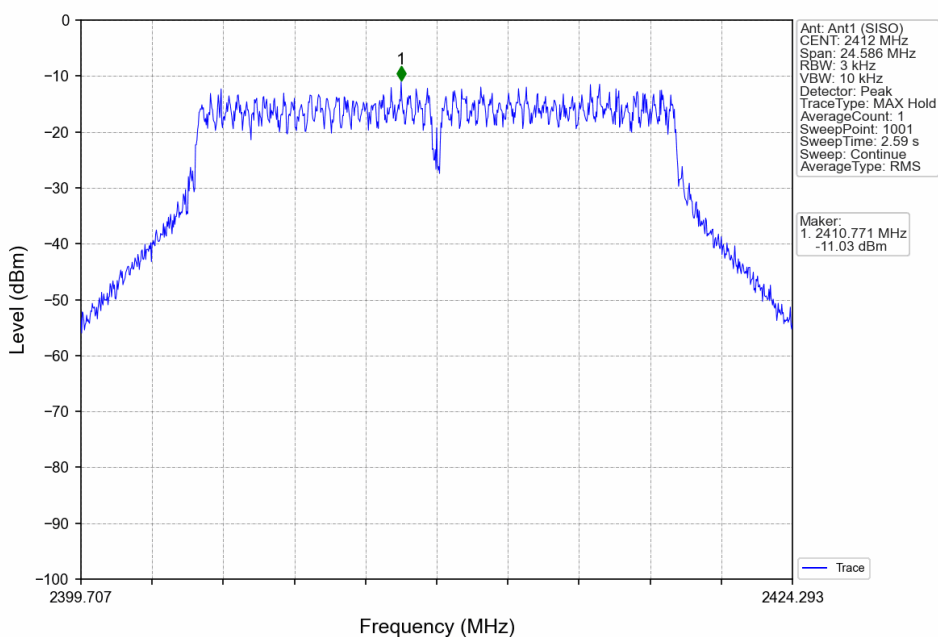
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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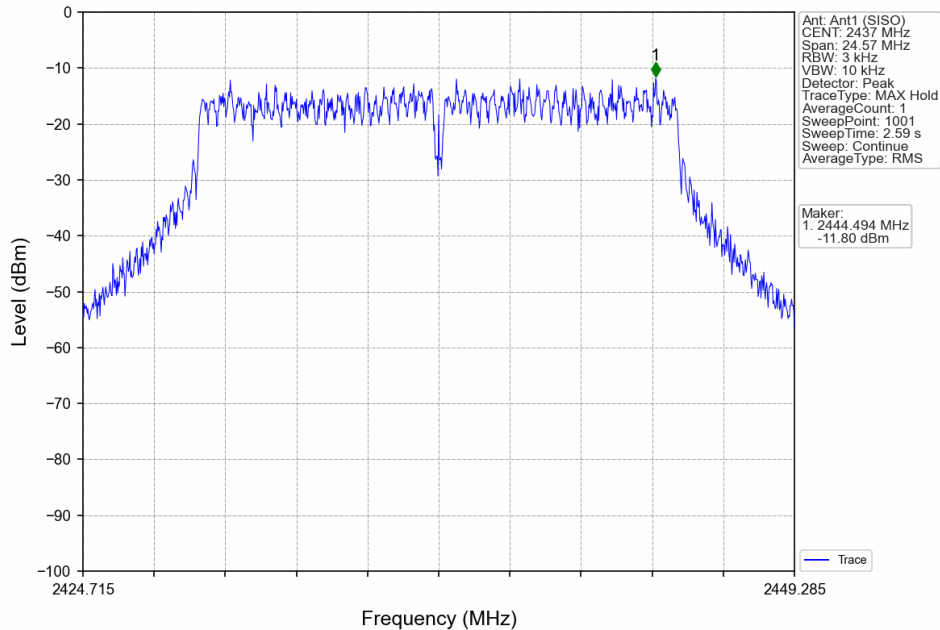
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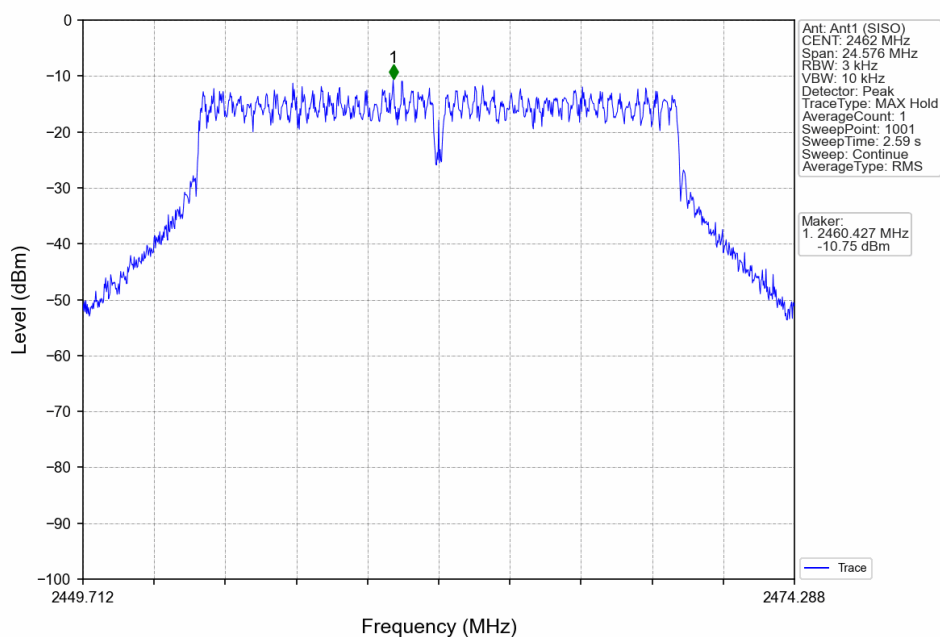
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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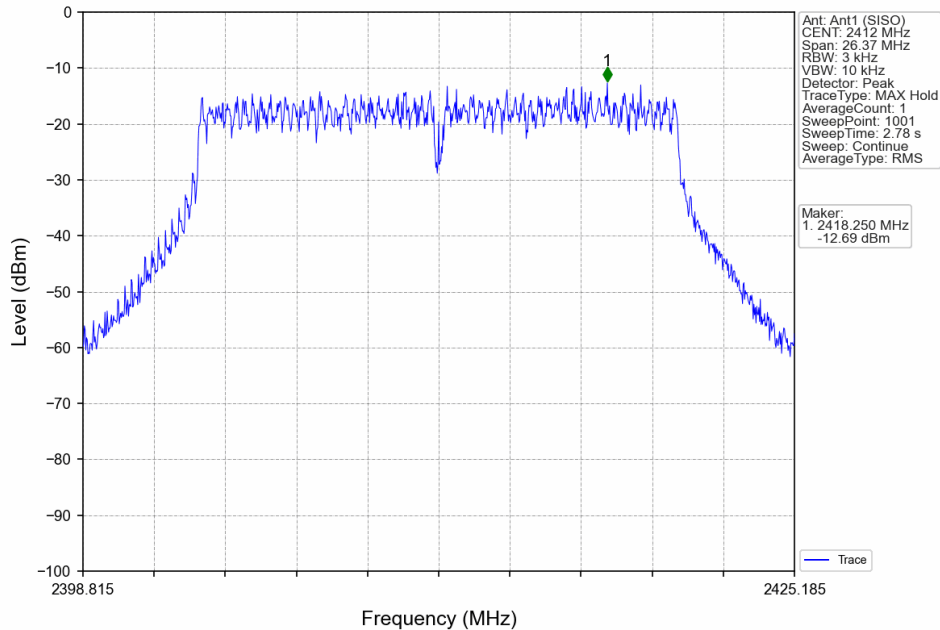
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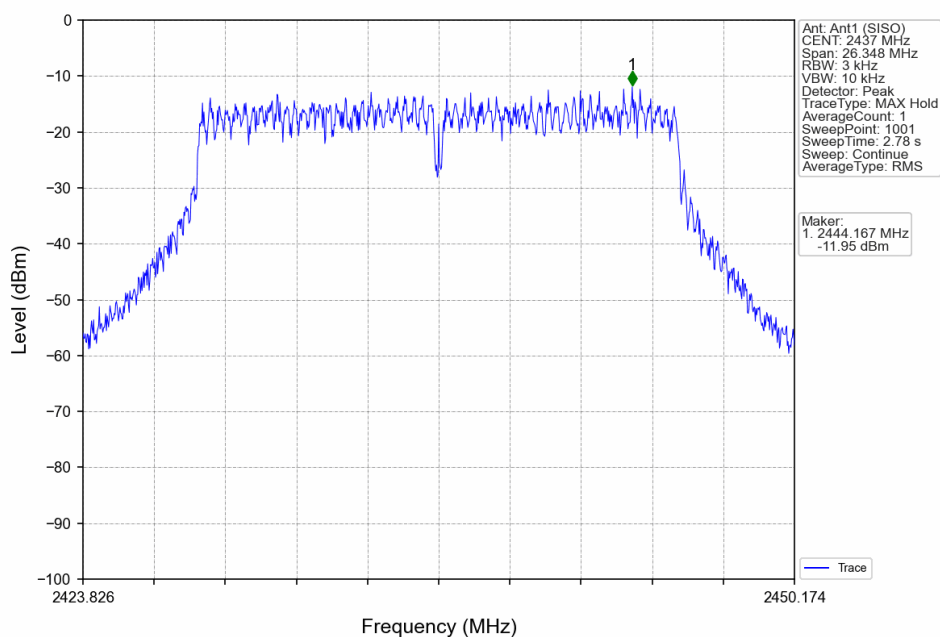
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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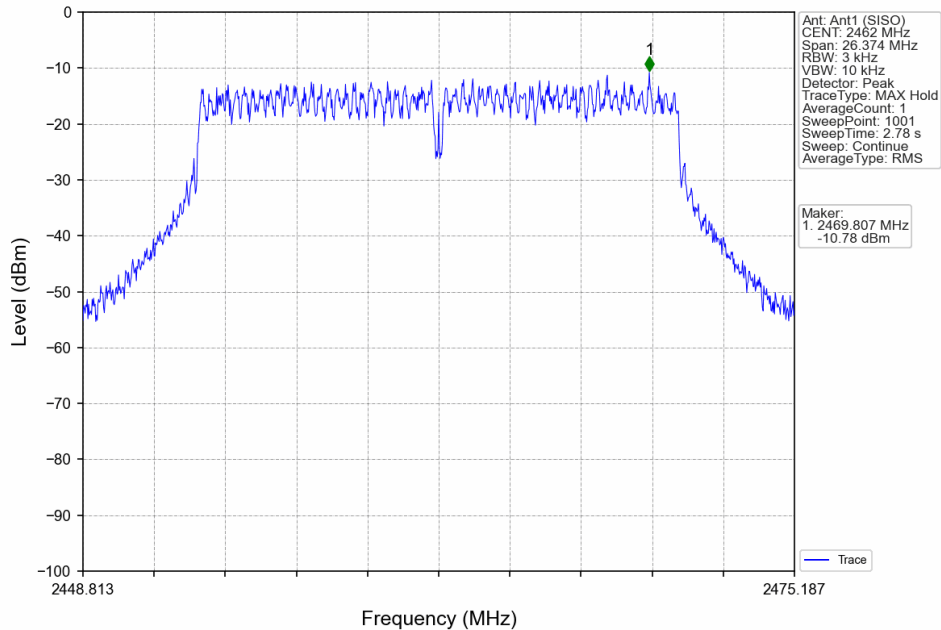
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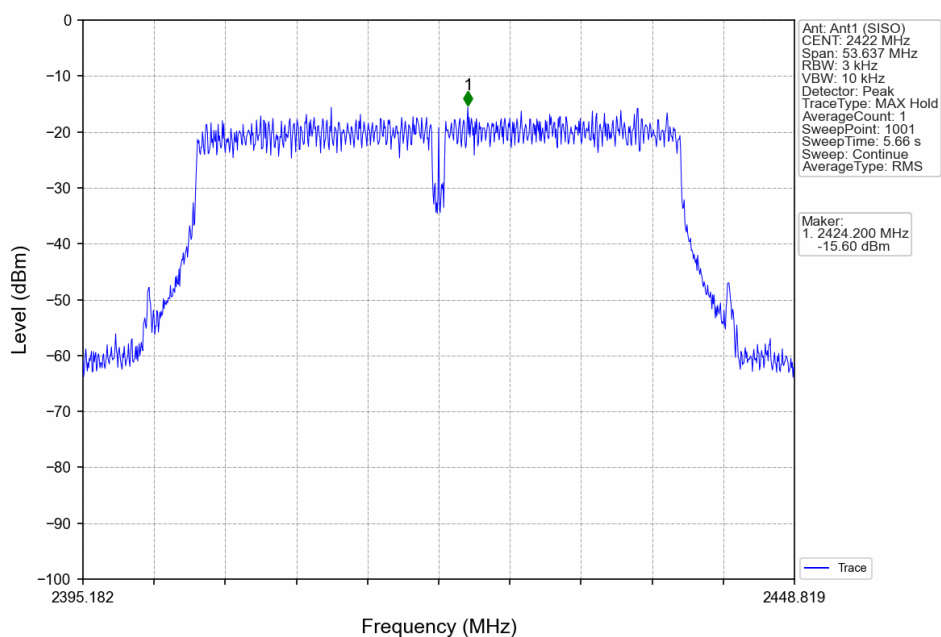
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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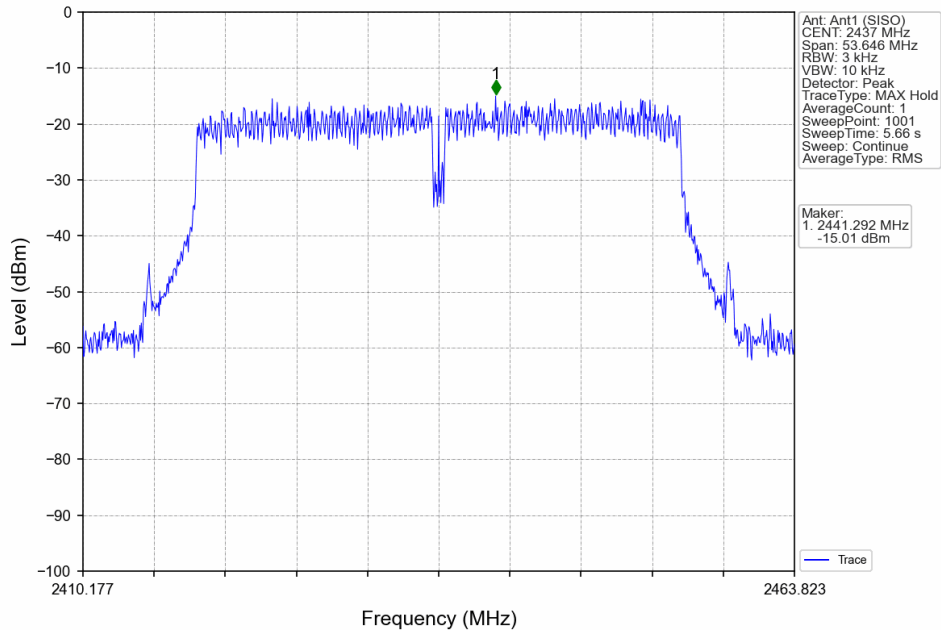
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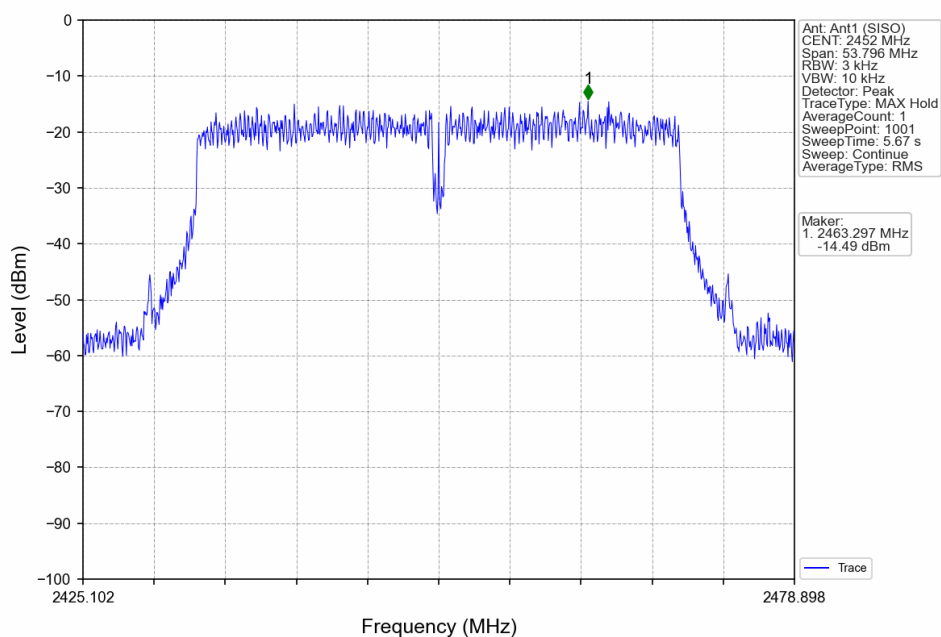
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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### 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	6.48
		2437	1	6.77
		2462	1	7.06
802.11g	SISO	2412	1	-1.02
		2437	1	2.81
		2462	1	3.26
802.11n (HT20)	SISO	2412	1	4.41
		2437	1	2.55
		2462	1	3.05
802.11n (HT40)	SISO	2422	1	-0.79
		2437	1	-0.32
		2452	1	0.08

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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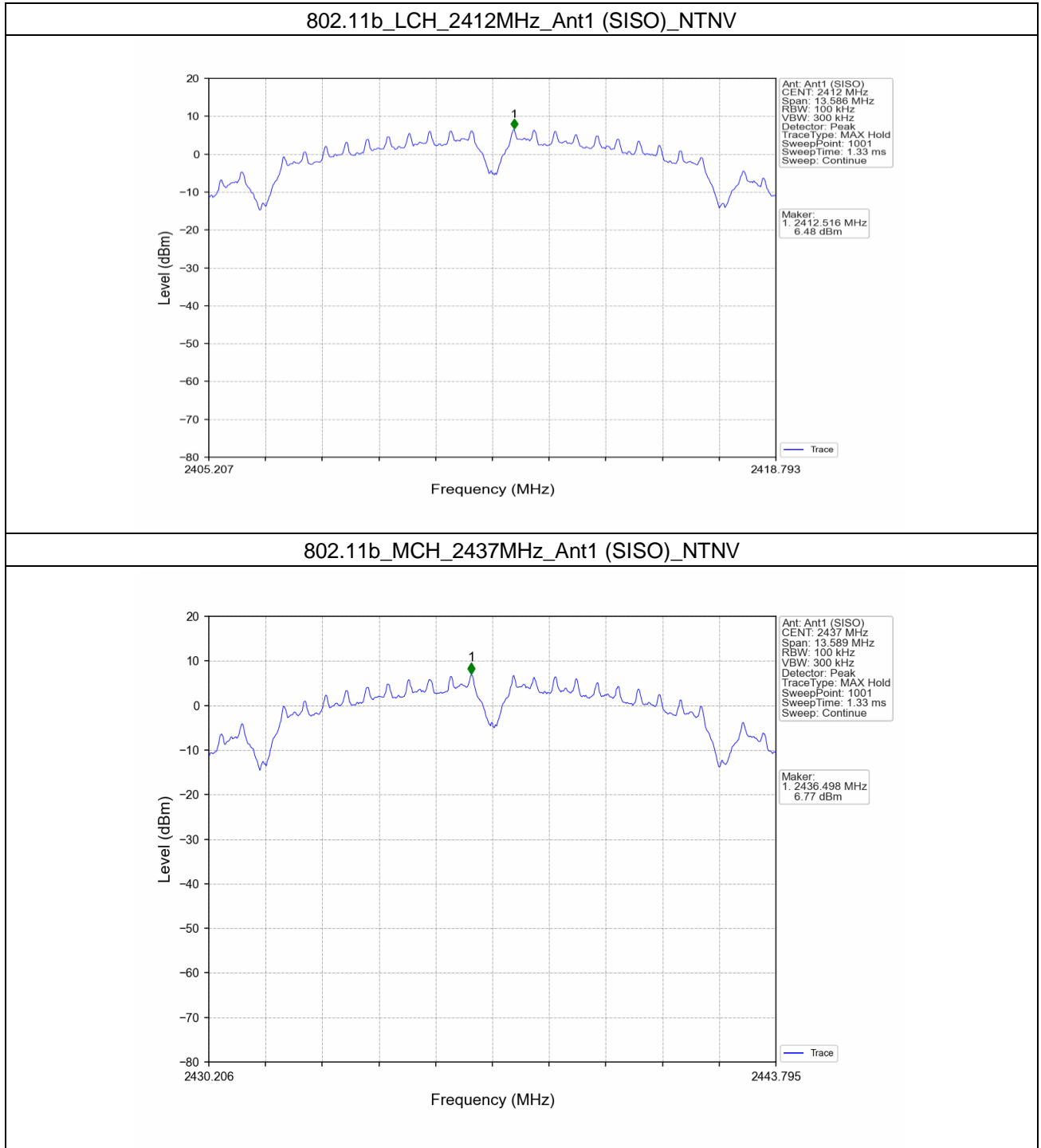
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### 5.1.2 Test Graph



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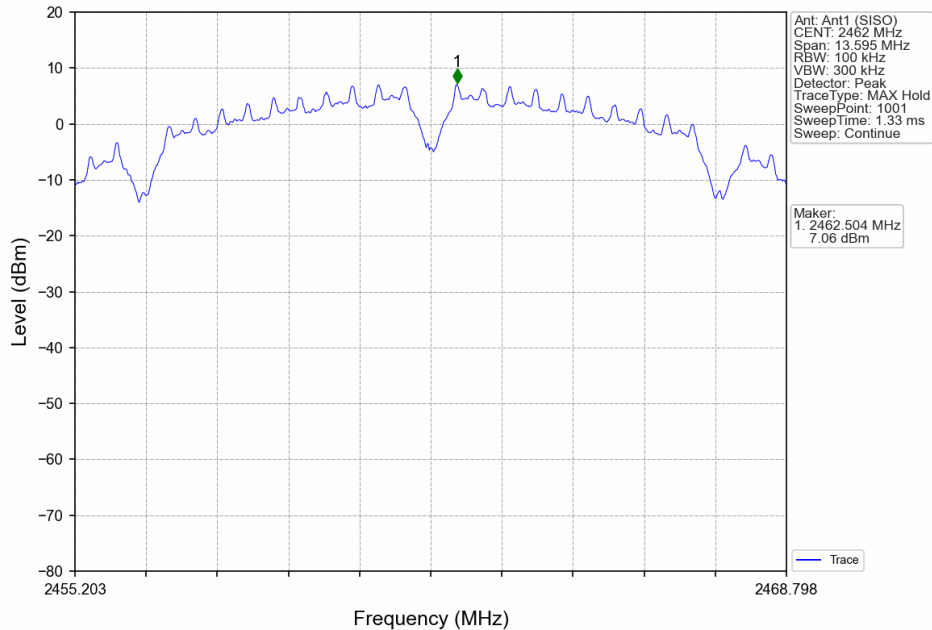
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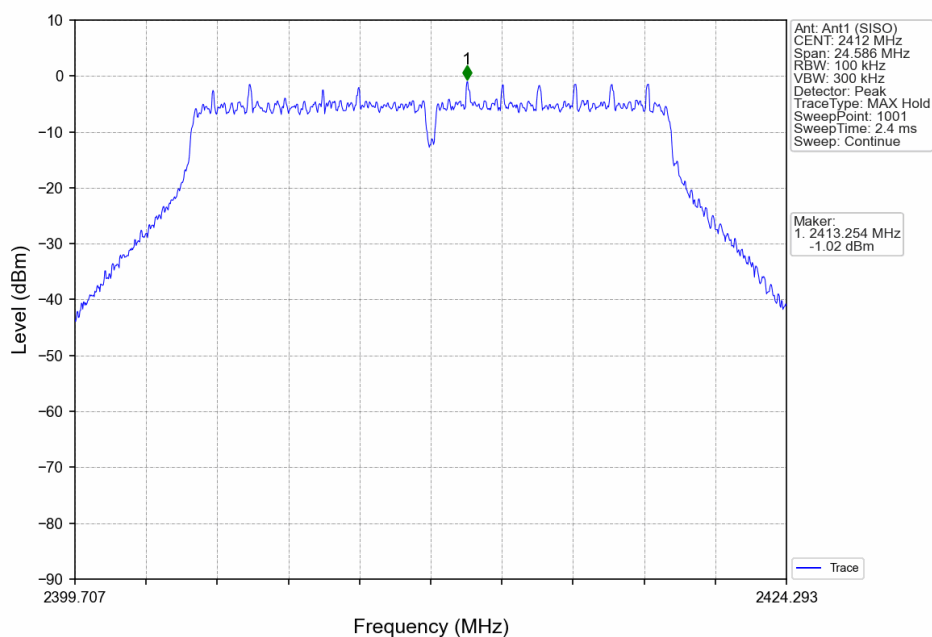
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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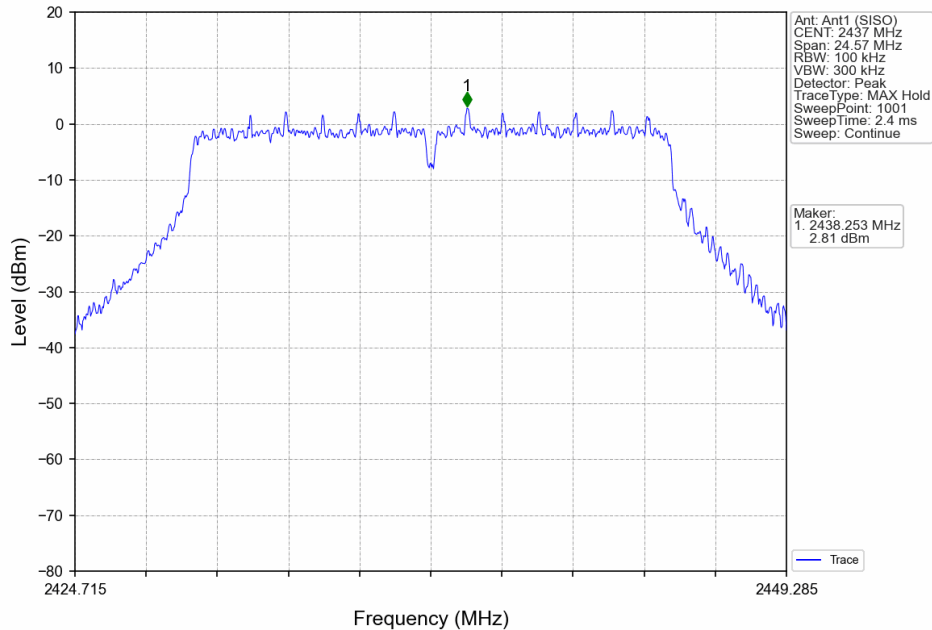
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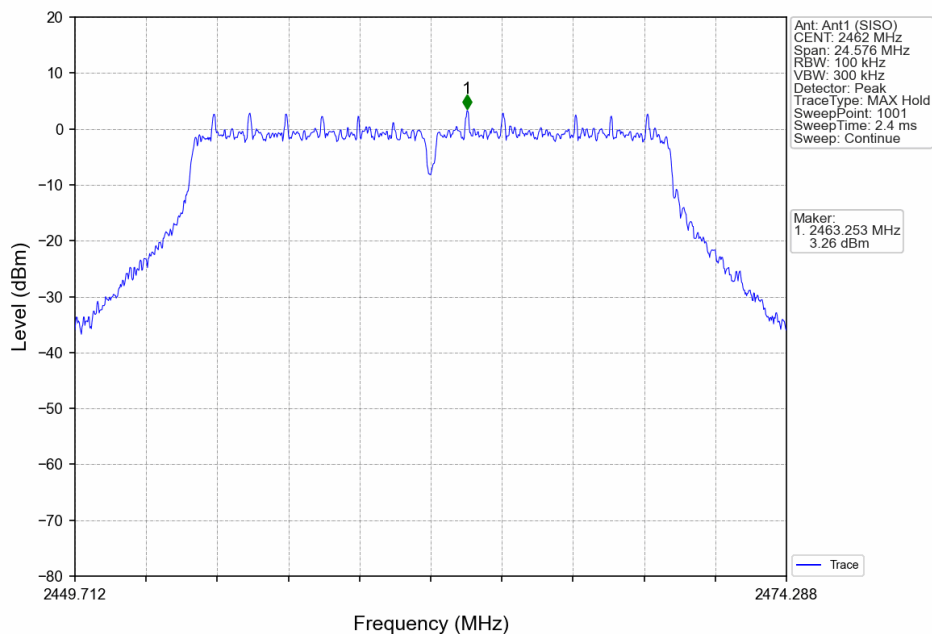
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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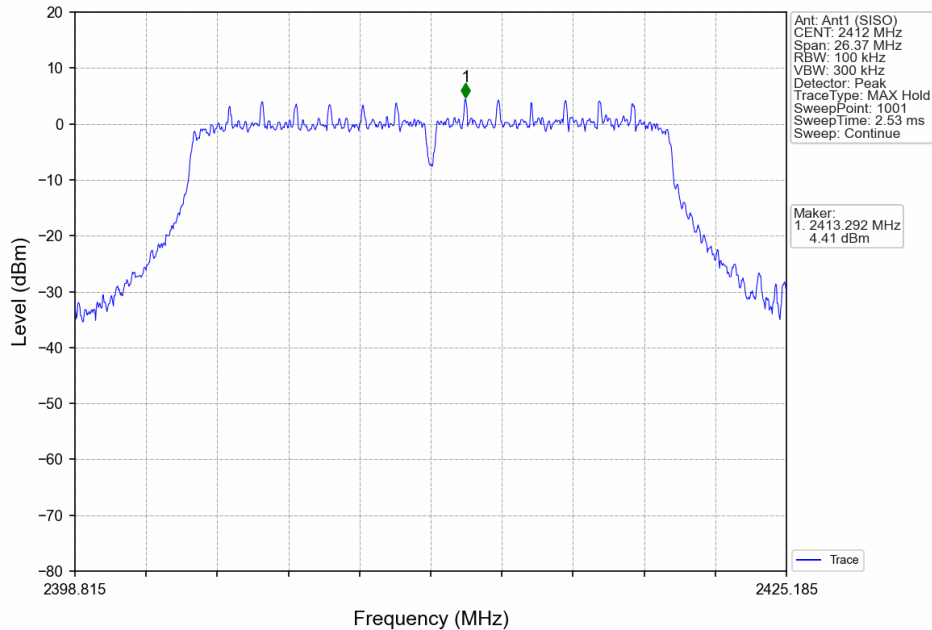
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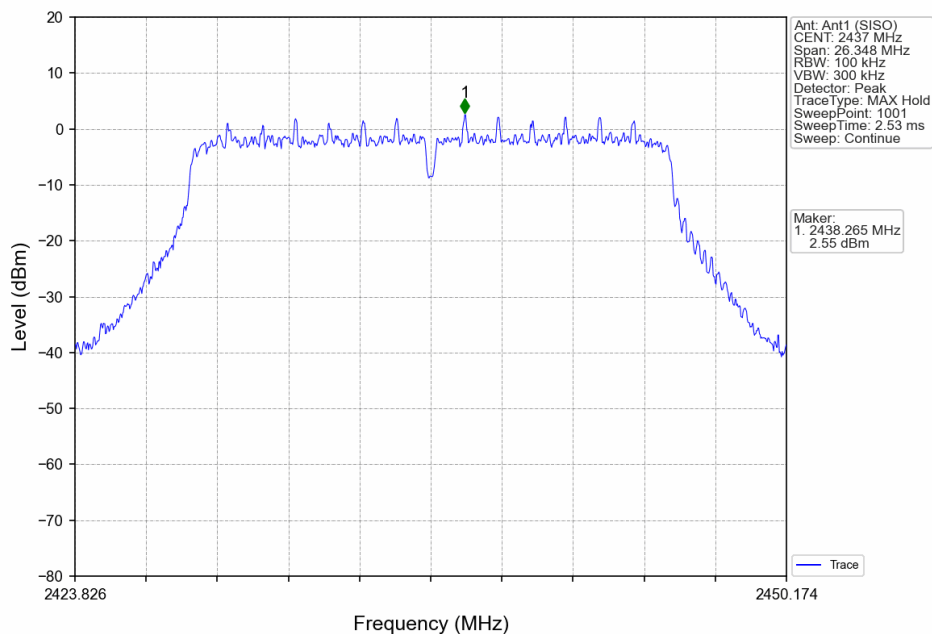
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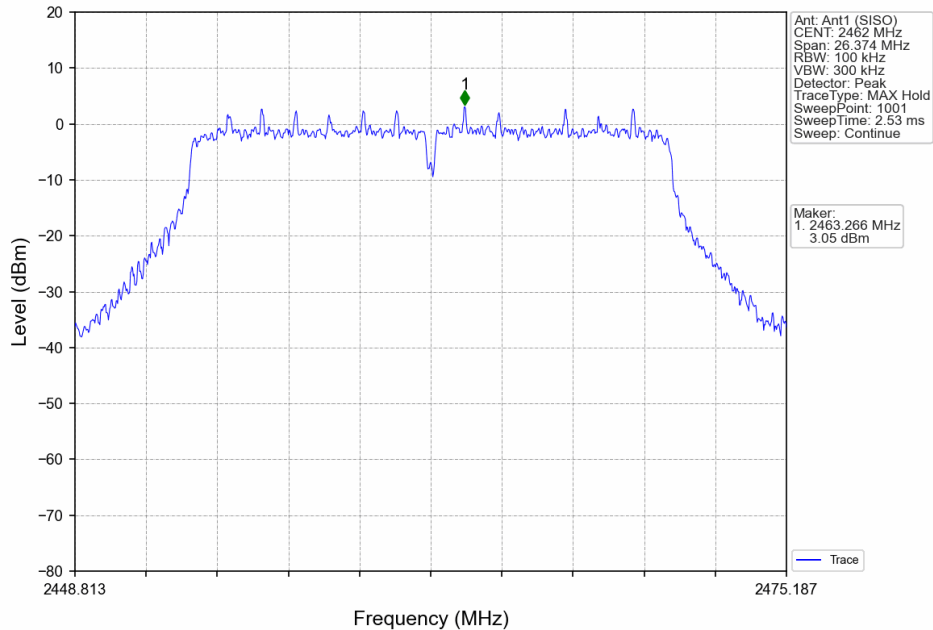
## Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

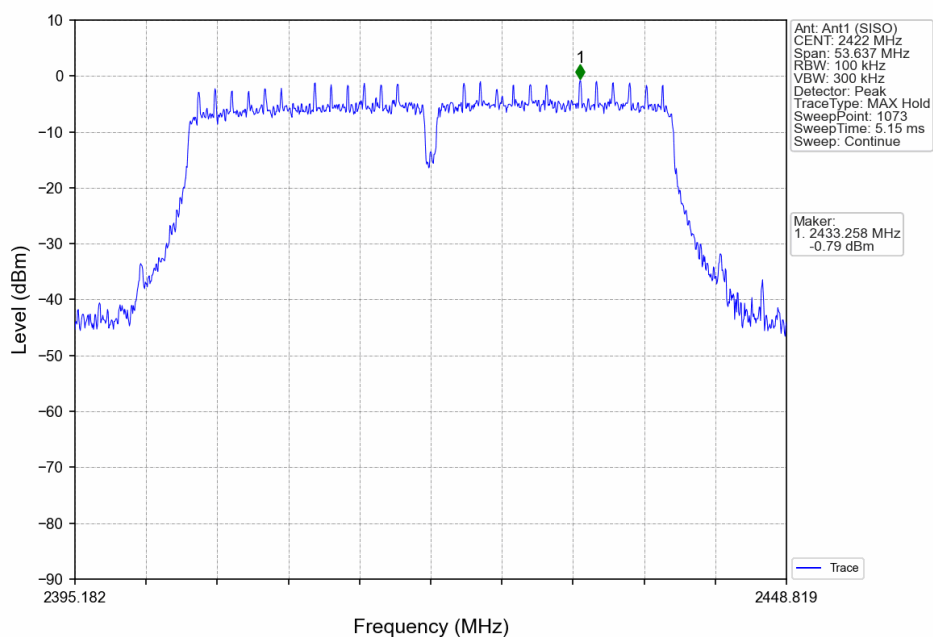
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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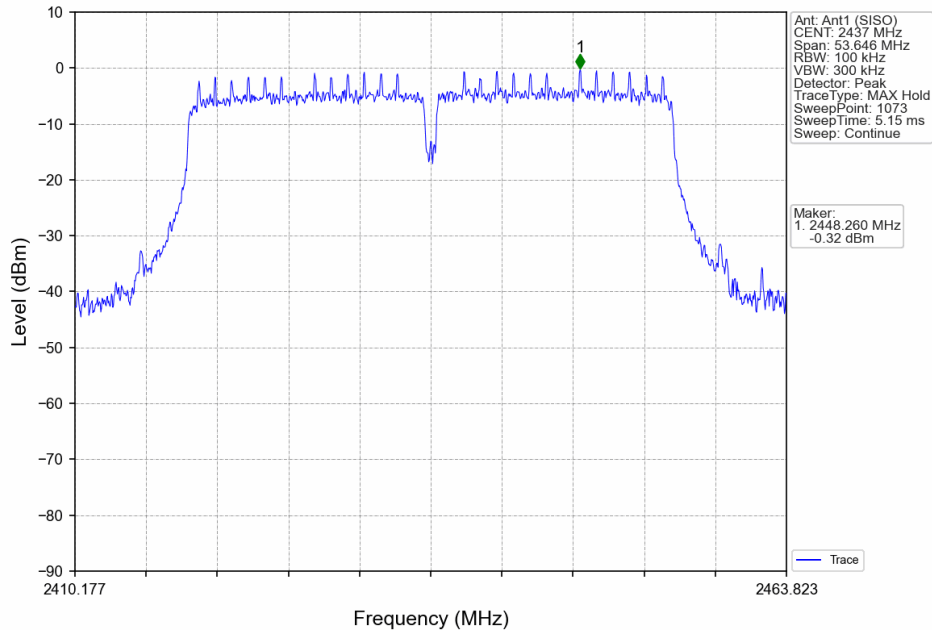
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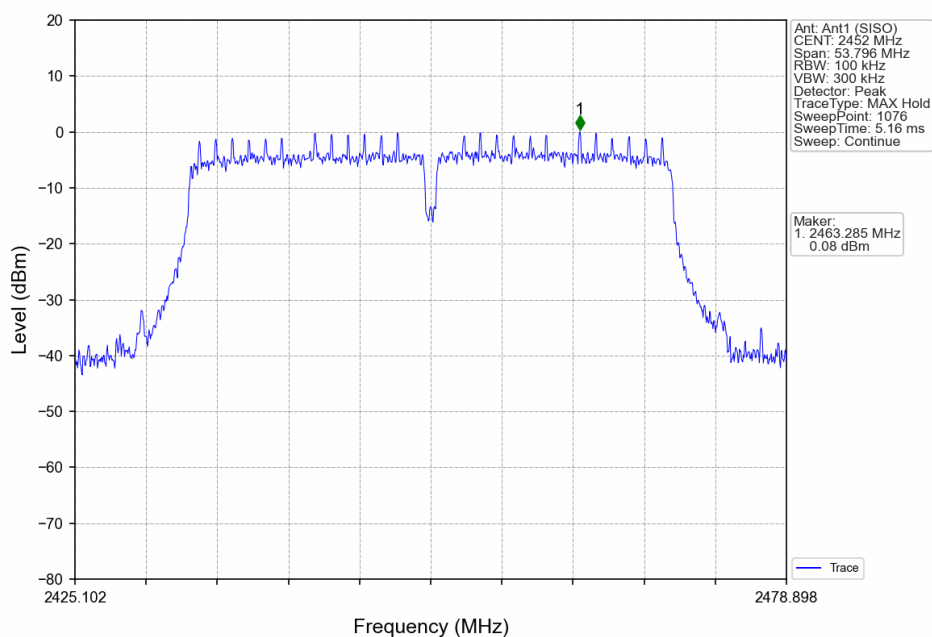
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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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	7.06	-22.94	Pass
		2437	1	7.06	-22.94	Pass
		2462	1	7.06	-22.94	Pass
802.11g	SISO	2412	1	3.26	-26.74	Pass
		2437	1	3.26	-26.74	Pass
		2462	1	3.26	-26.74	Pass
802.11n (HT20)	SISO	2412	1	4.41	-25.59	Pass
		2437	1	4.41	-25.59	Pass
		2462	1	4.41	-25.59	Pass
802.11n (HT40)	SISO	2422	1	0.08	-29.92	Pass
		2437	1	0.08	-29.92	Pass
		2452	1	0.08	-29.92	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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