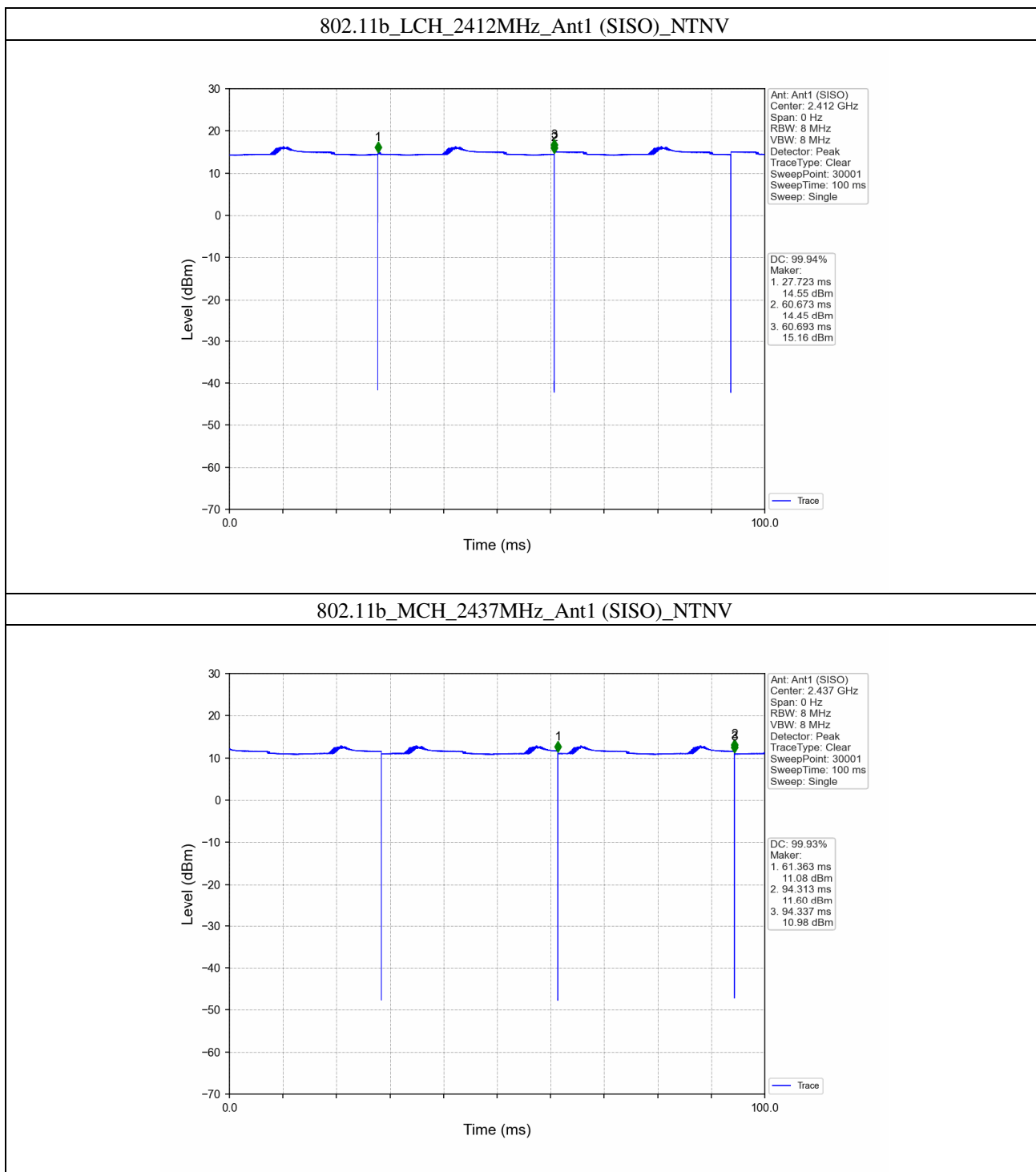
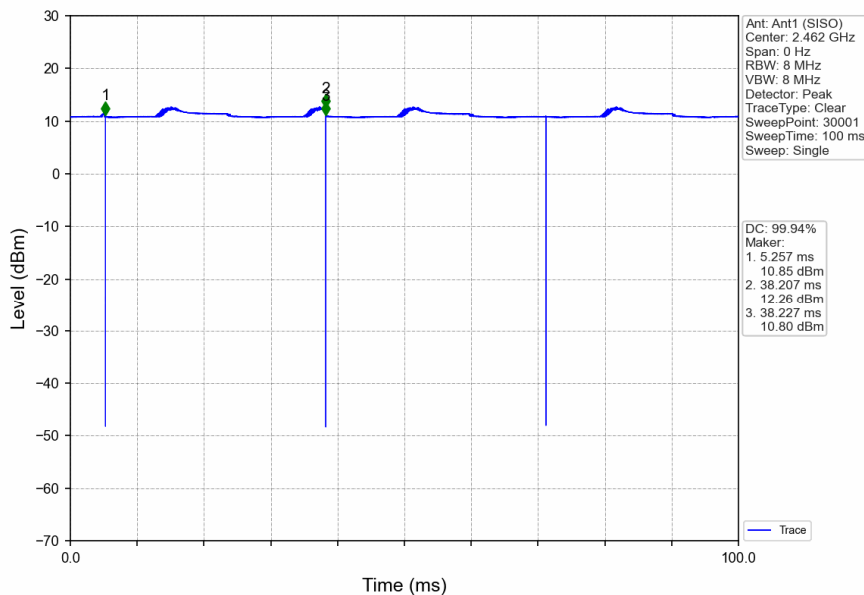


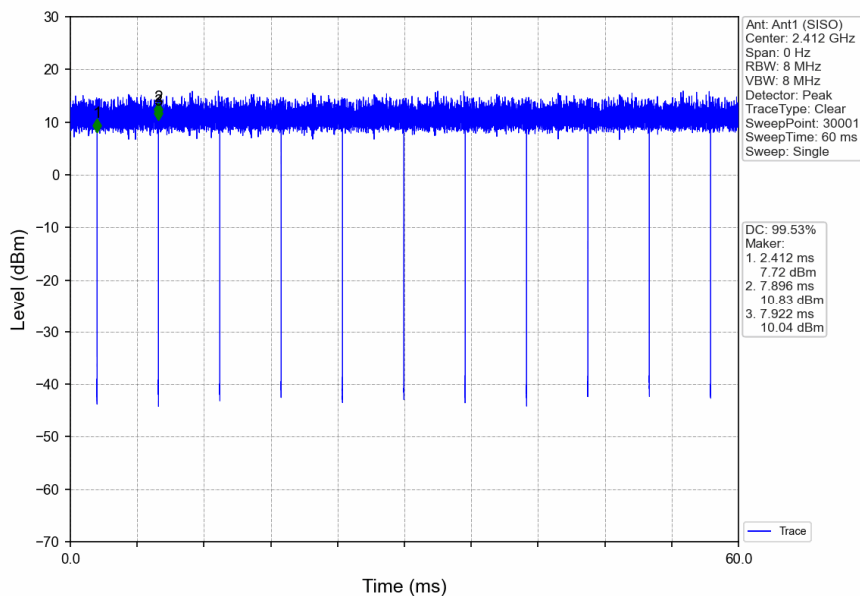
### 1.1.2 Test Graph



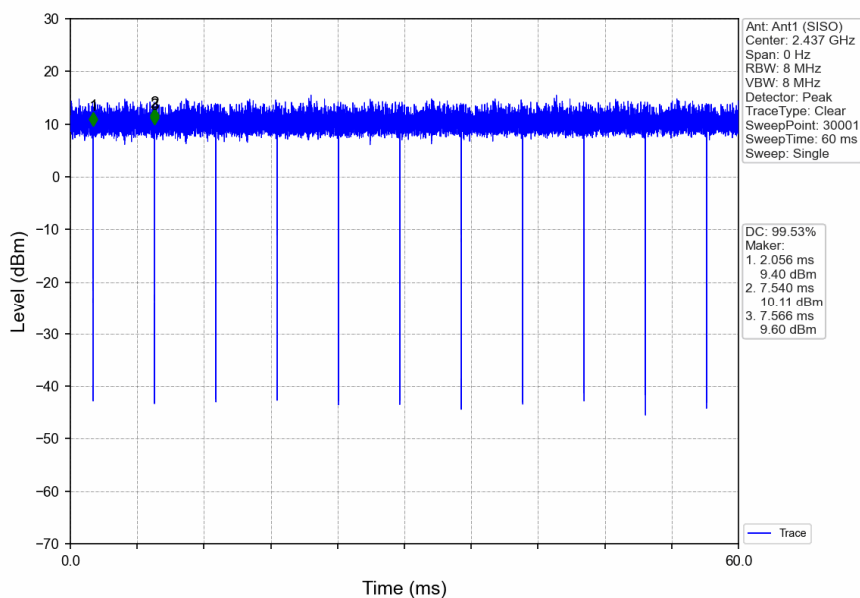
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



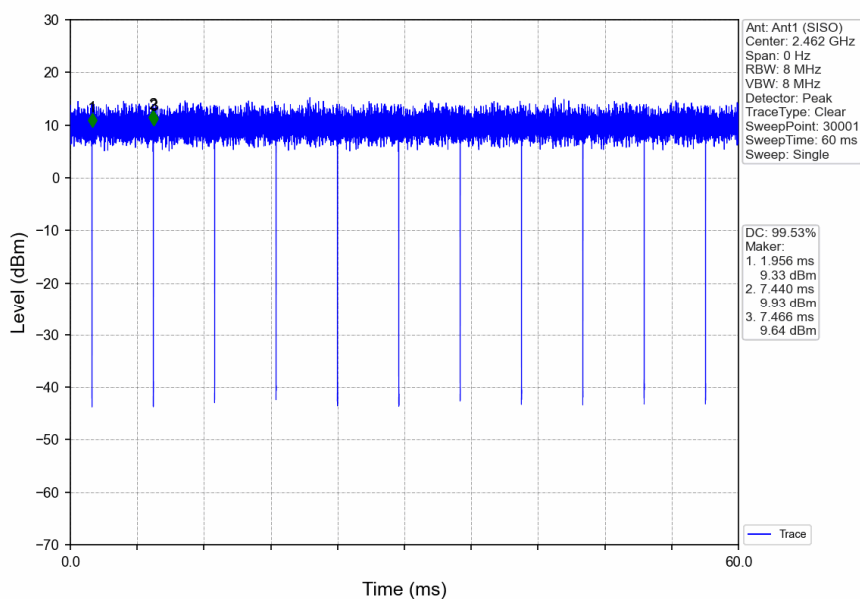
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



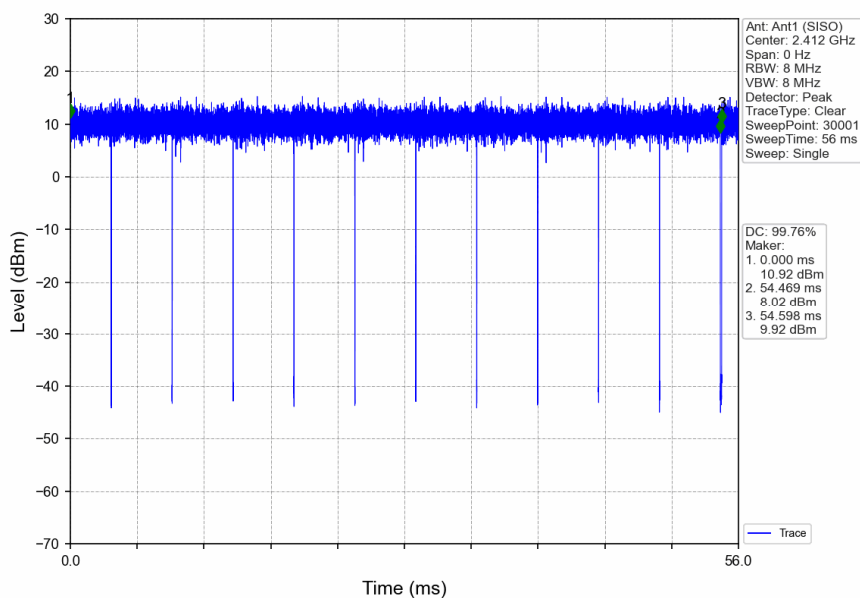
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



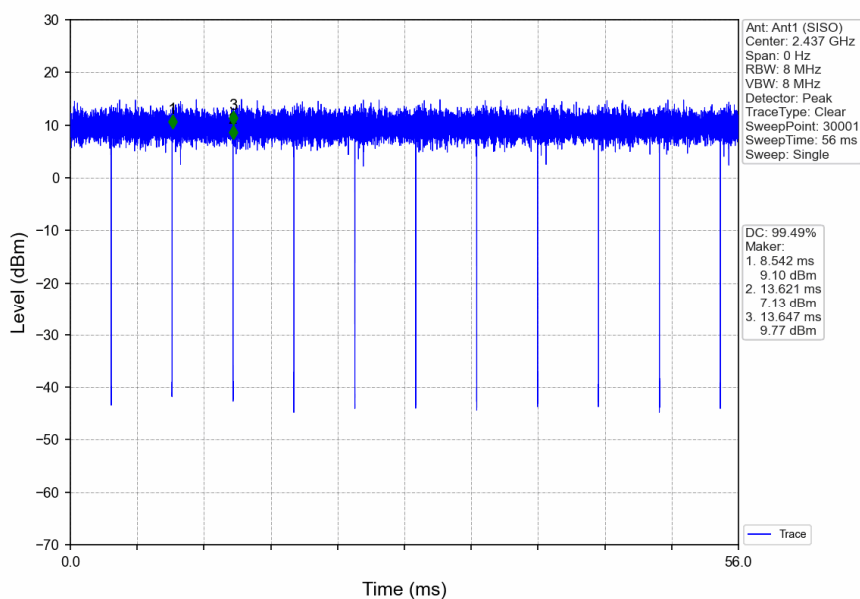
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



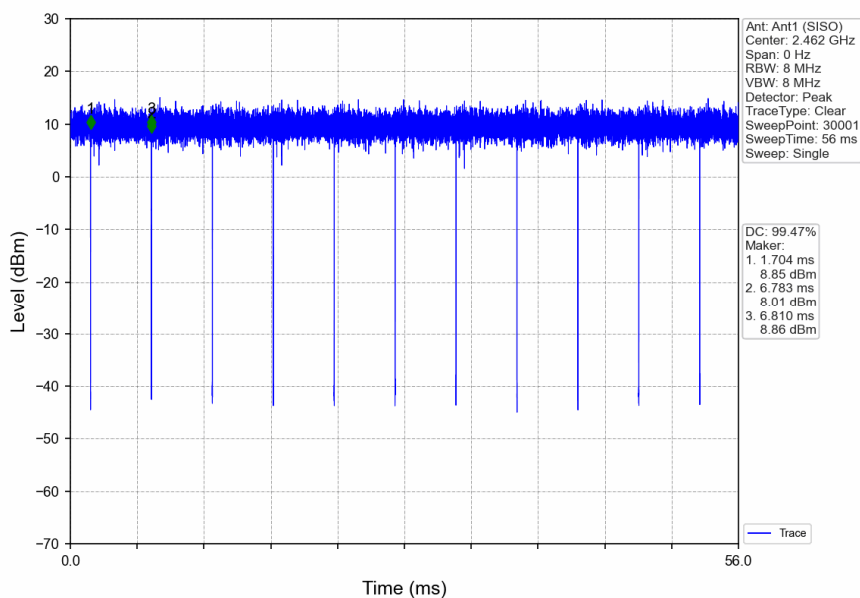
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



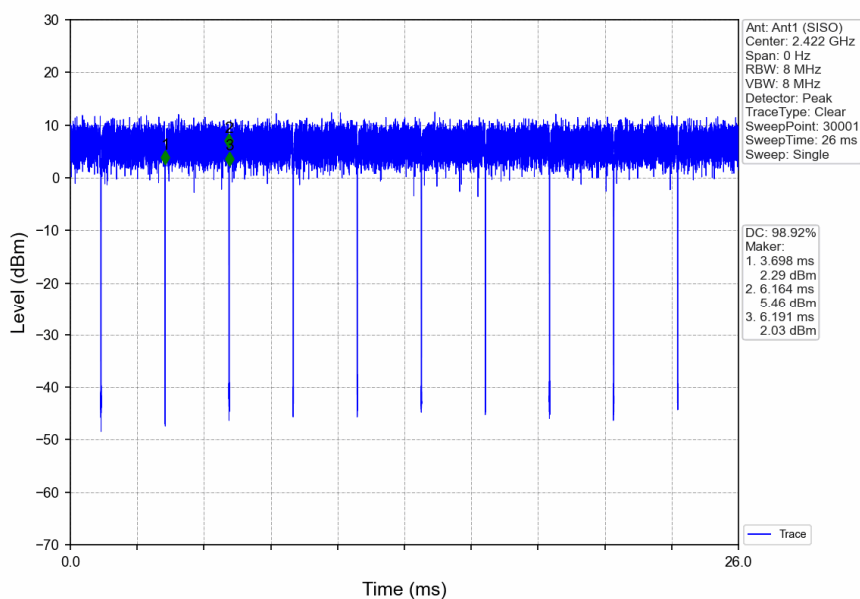
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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

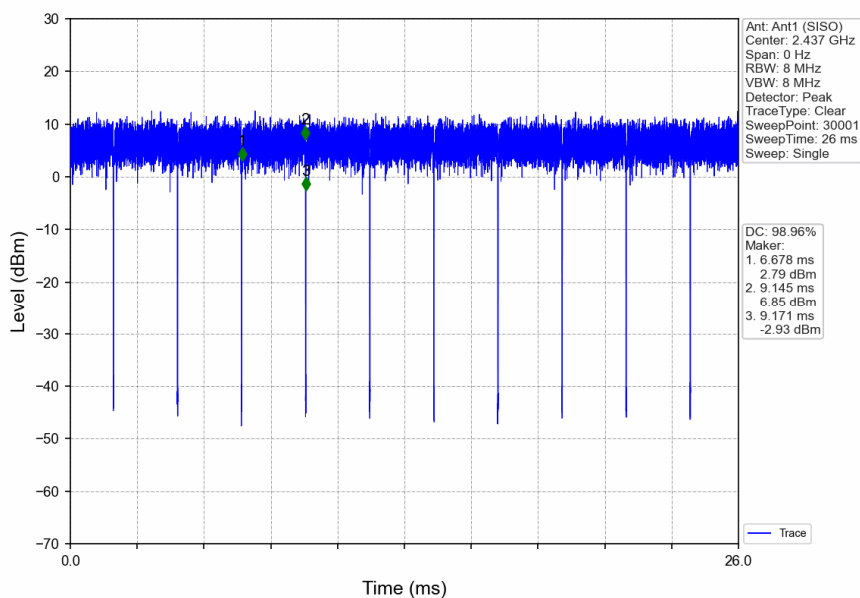


802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

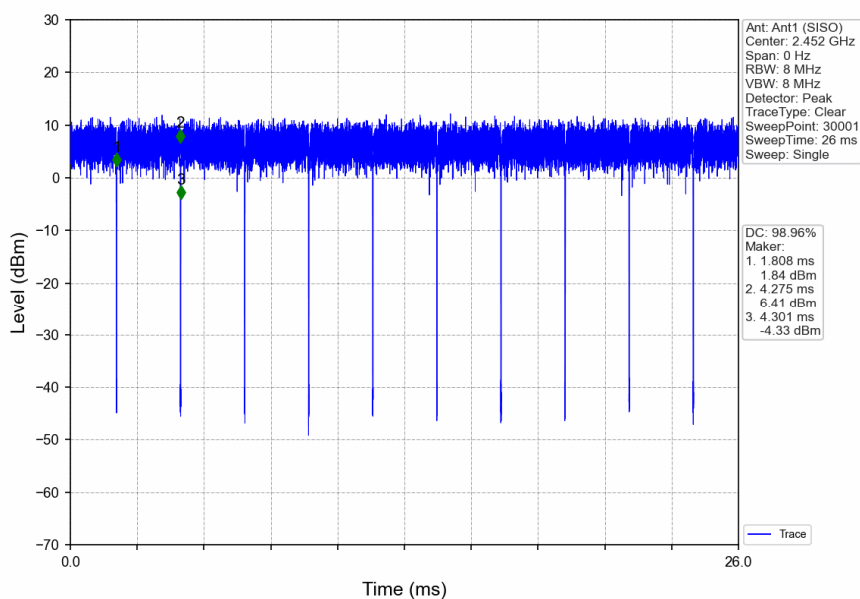




802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



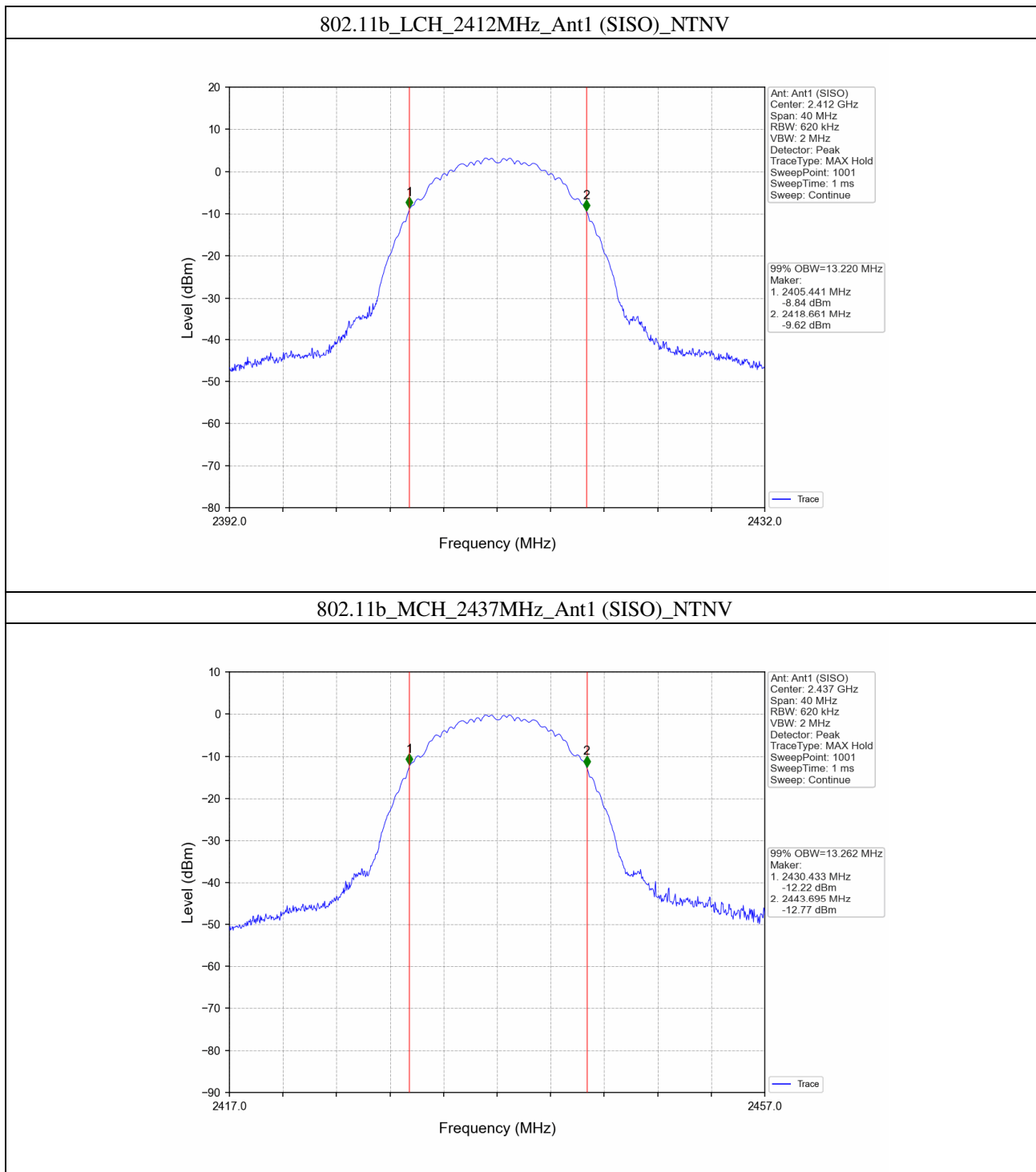
## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

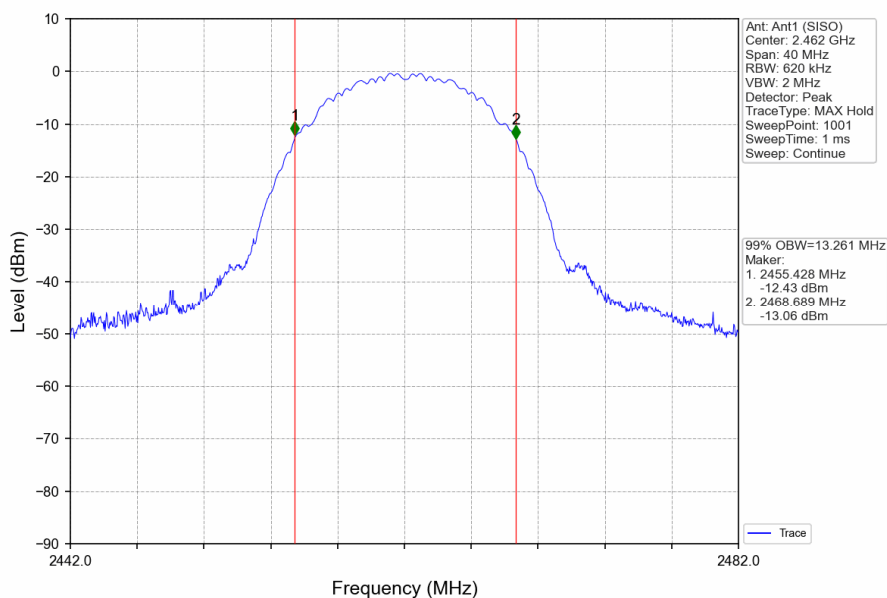
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.220	Pass
		2437	1	13.262	Pass
		2462	1	13.261	Pass
802.11g	SISO	2412	1	18.519	Pass
		2437	1	18.517	Pass
		2462	1	18.392	Pass
802.11n (HT20)	SISO	2412	1	19.119	Pass
		2437	1	19.143	Pass
		2462	1	19.129	Pass
802.11n (HT40)	SISO	2422	1	35.351	Pass
		2437	1	35.335	Pass
		2452	1	35.291	Pass

### 2.1.2 Test Graph

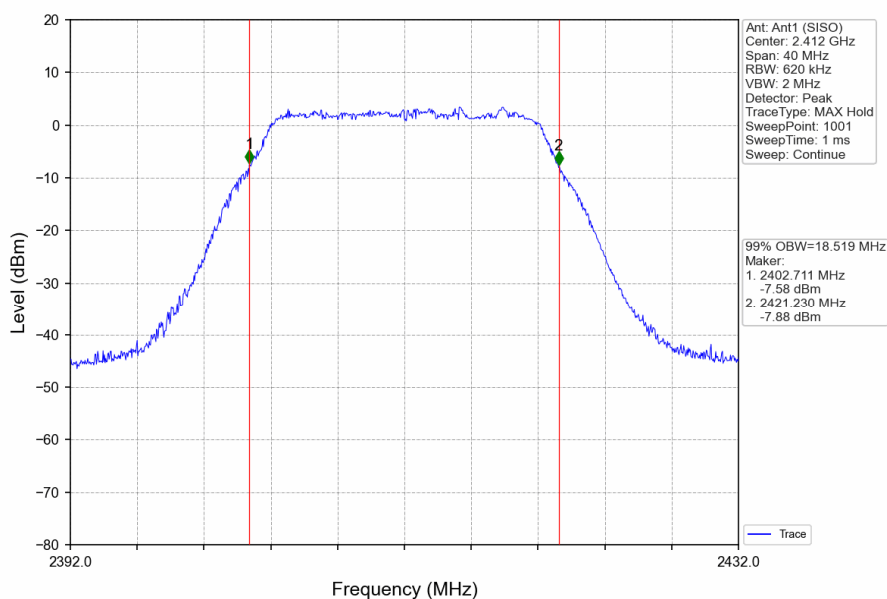




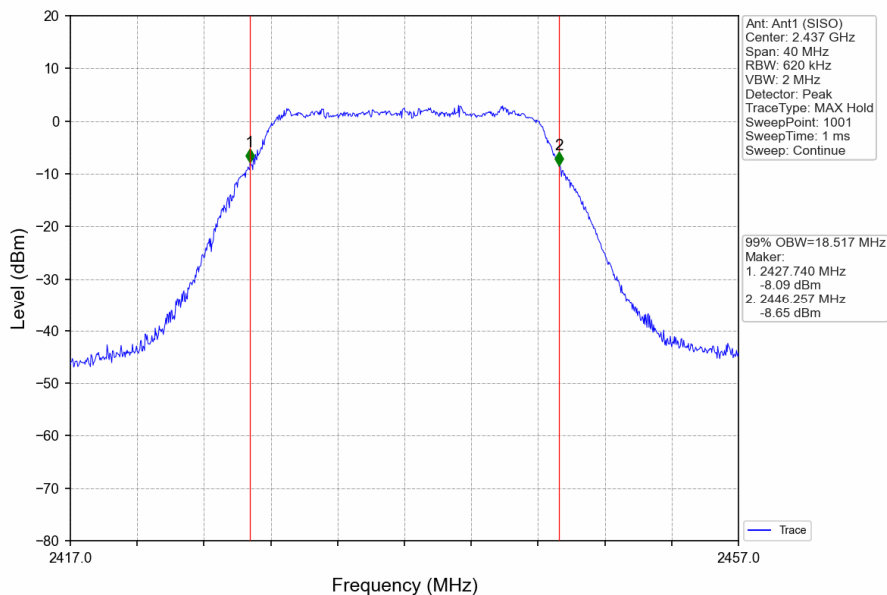
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



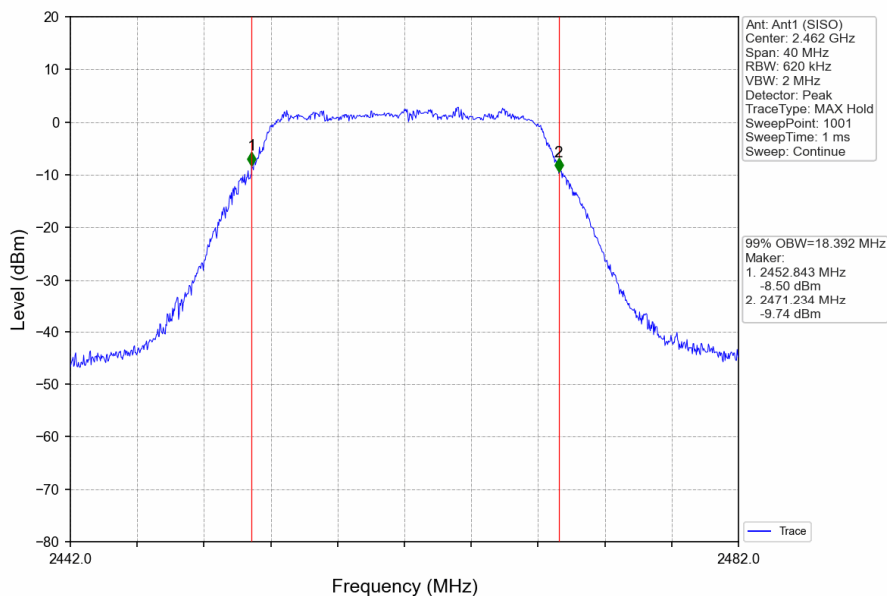
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



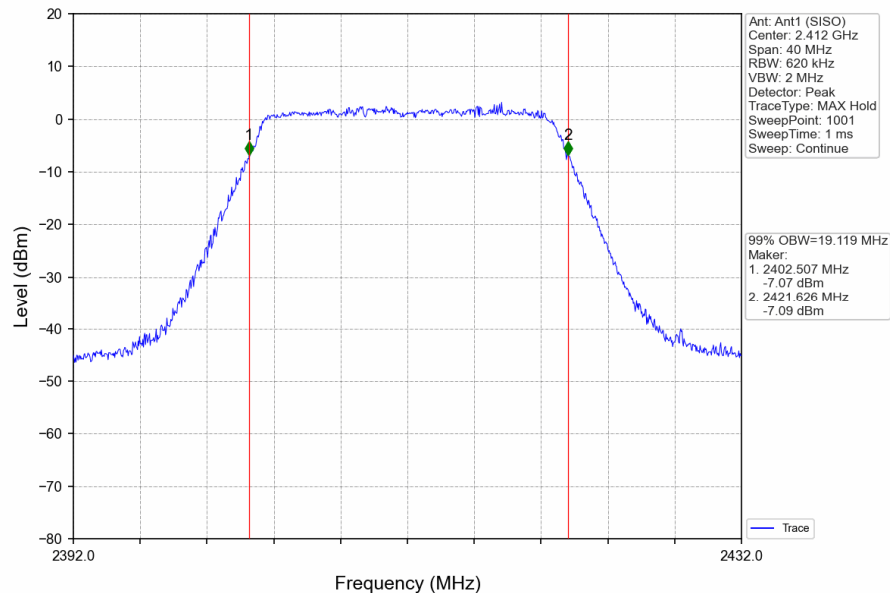
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



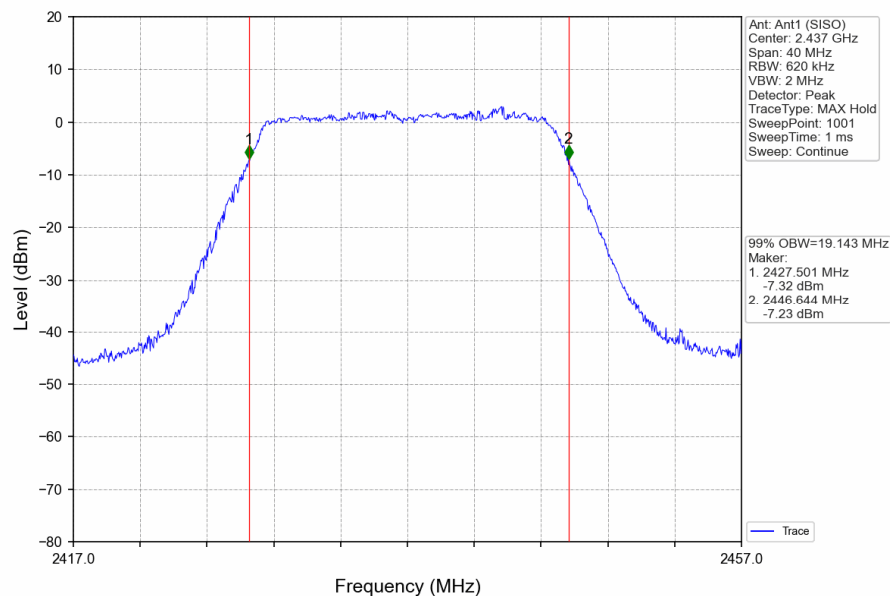
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



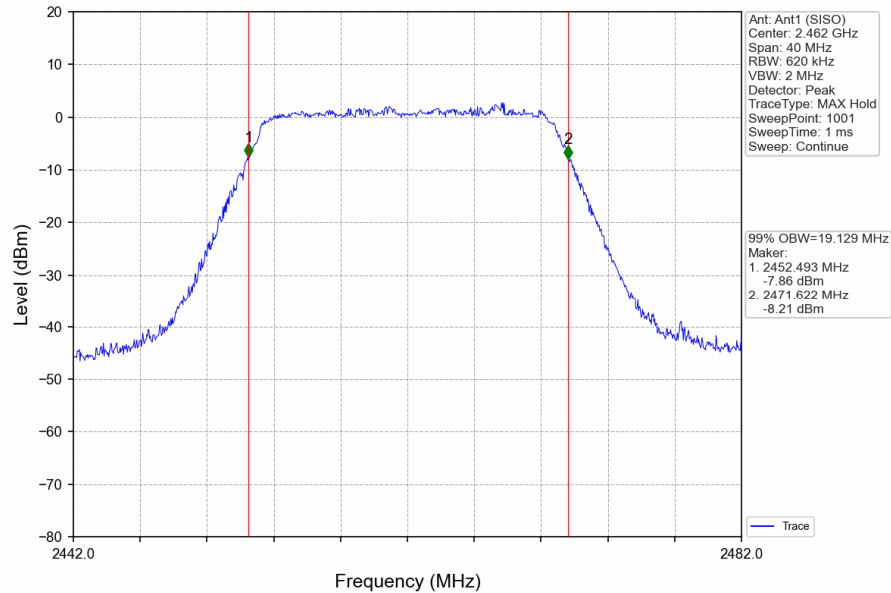
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



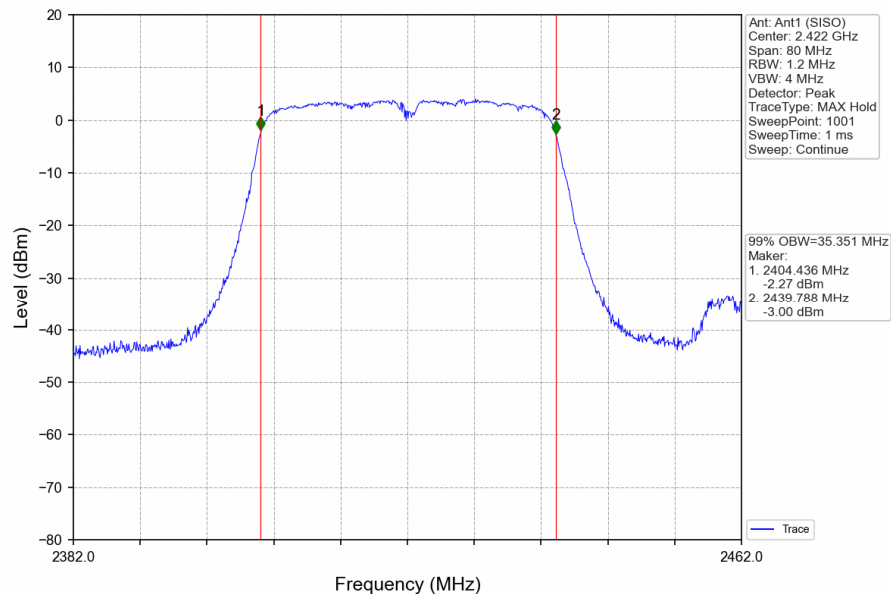
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



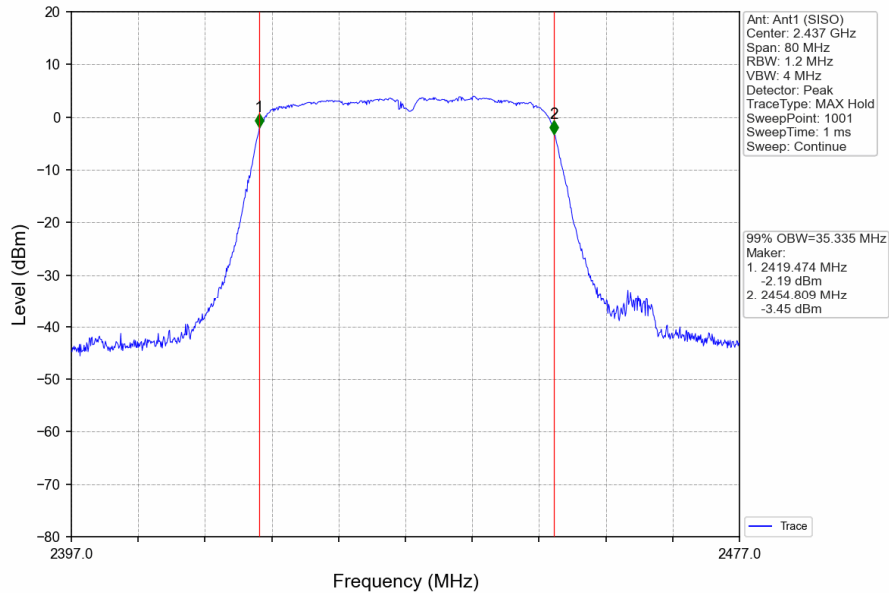
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



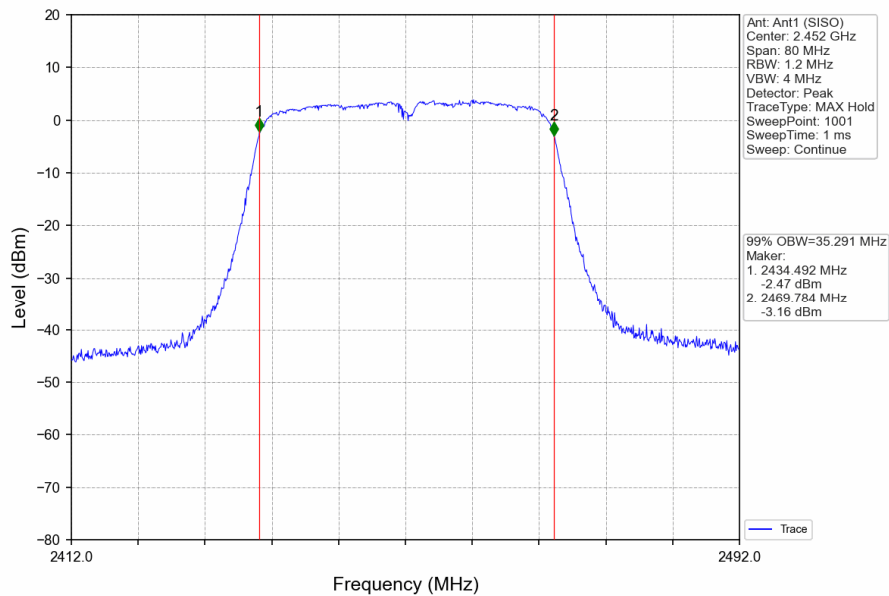
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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





## 2.2 6dB BW

## 2.2.1 Test Result

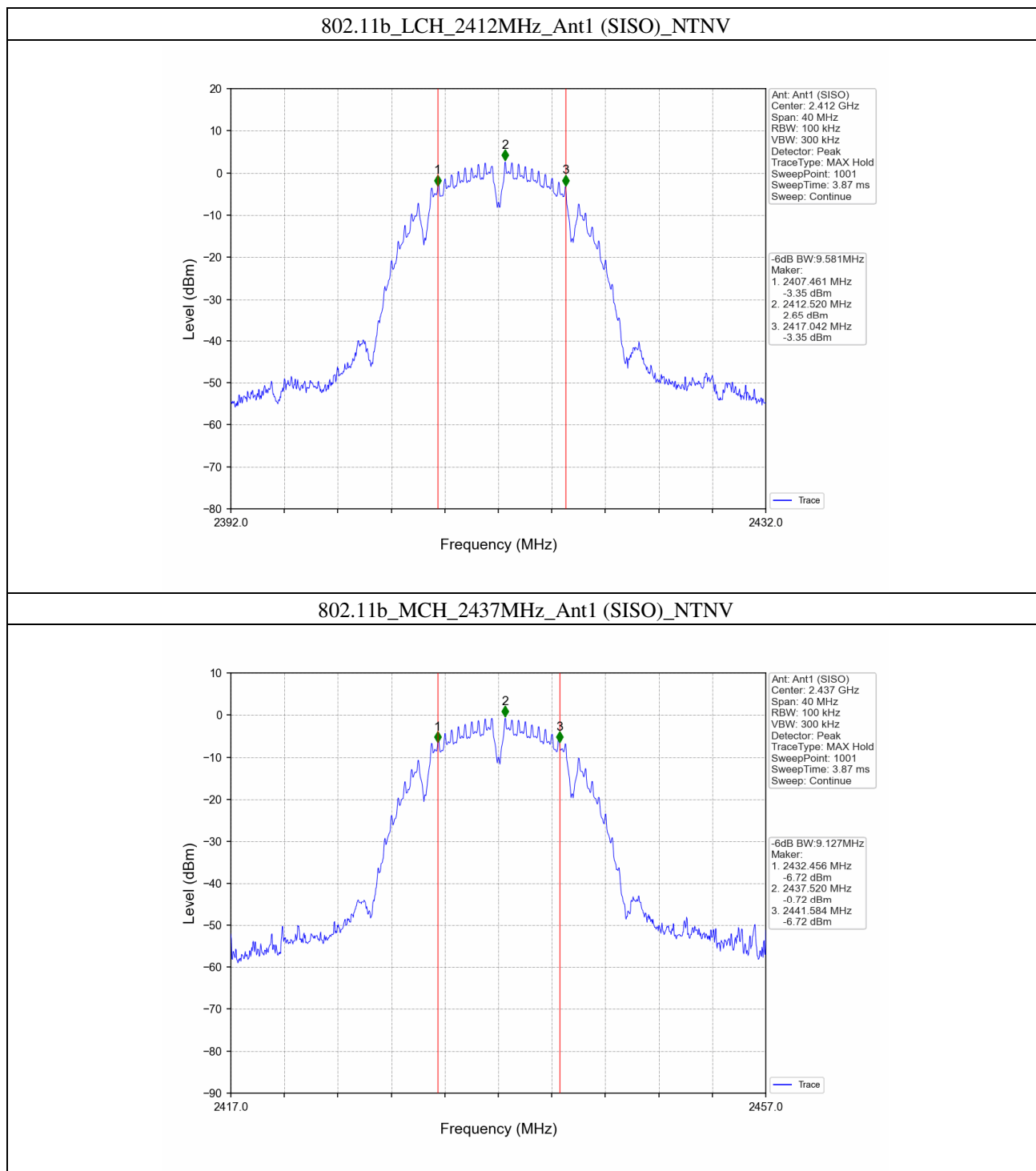
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.581	$\geq 0.5$	Pass
		2437	1	9.127	$\geq 0.5$	Pass
		2462	1	9.131	$\geq 0.5$	Pass
802.11g	SISO	2412	1	16.393	$\geq 0.5$	Pass
		2437	1	16.423	$\geq 0.5$	Pass
		2462	1	16.399	$\geq 0.5$	Pass
802.11n (HT20)	SISO	2412	1	17.620	$\geq 0.5$	Pass
		2437	1	17.622	$\geq 0.5$	Pass
		2462	1	17.611	$\geq 0.5$	Pass
802.11n (HT40)	SISO	2422	1	35.073	$\geq 0.5$	Pass
		2437	1	35.070	$\geq 0.5$	Pass
		2452	1	35.047	$\geq 0.5$	Pass



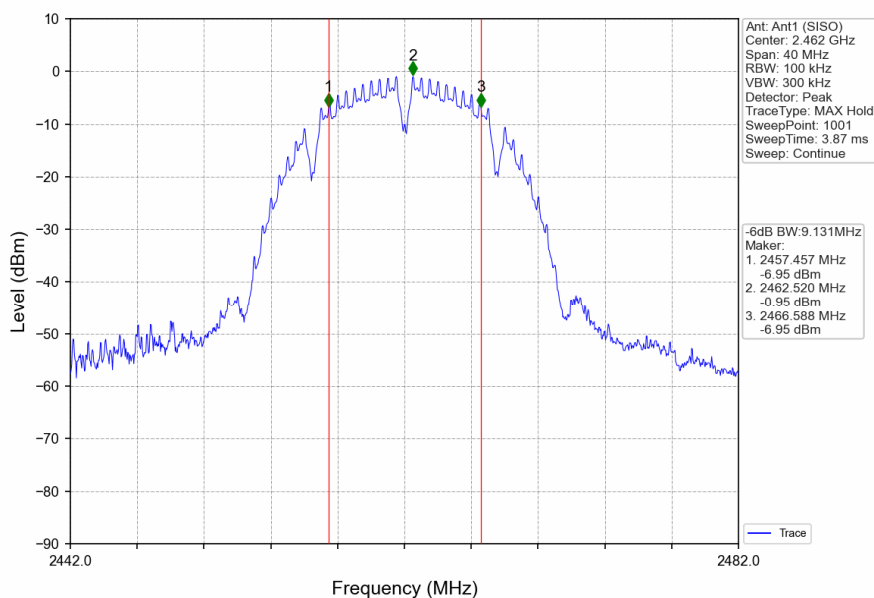
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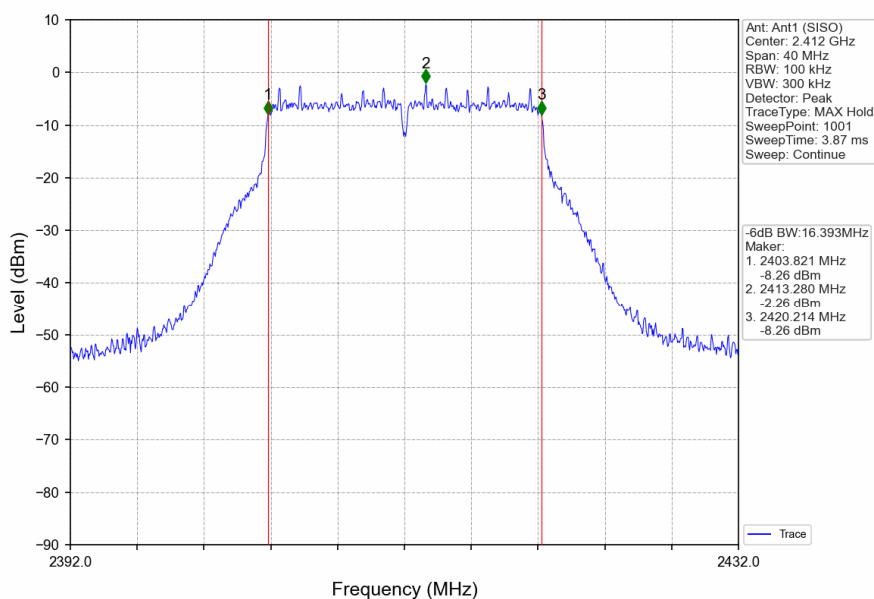
## 2.2.2 Test Graph



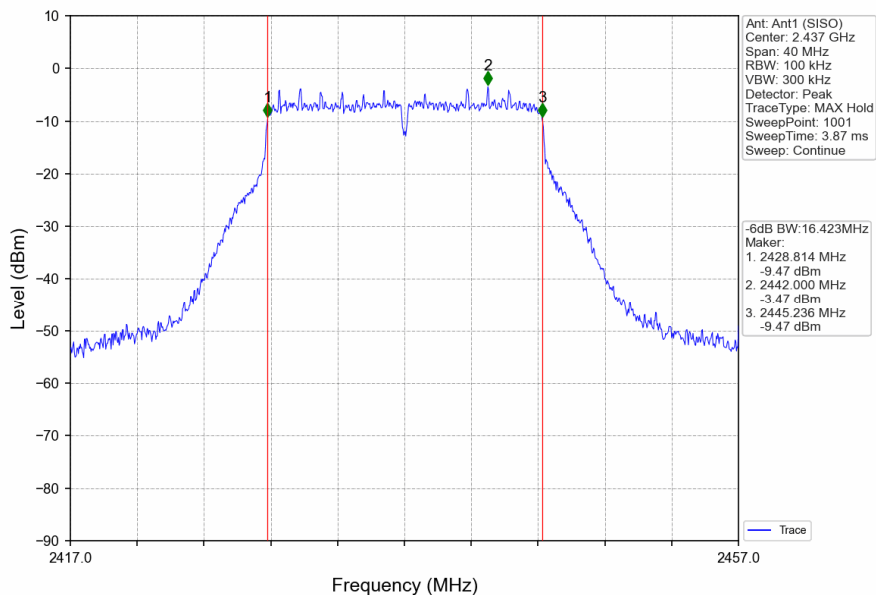
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



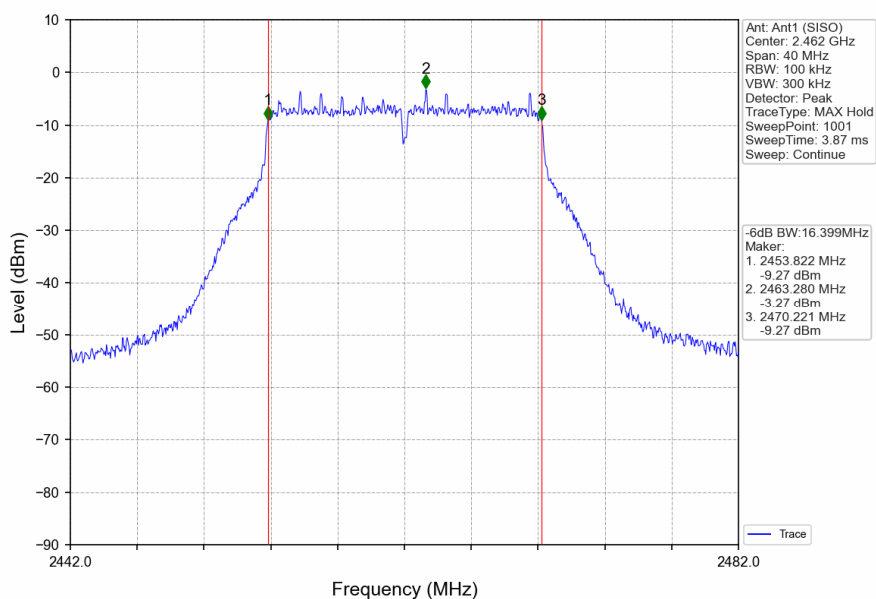
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



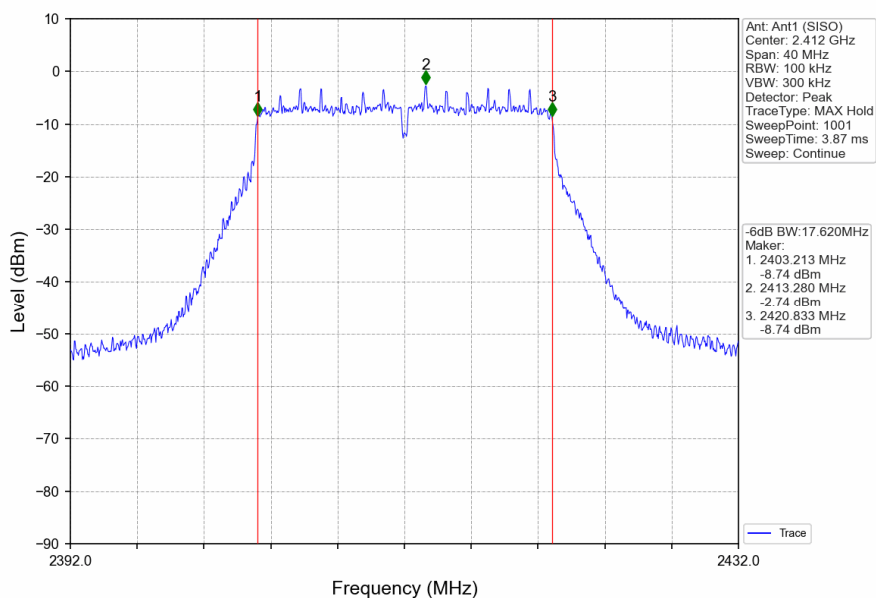
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



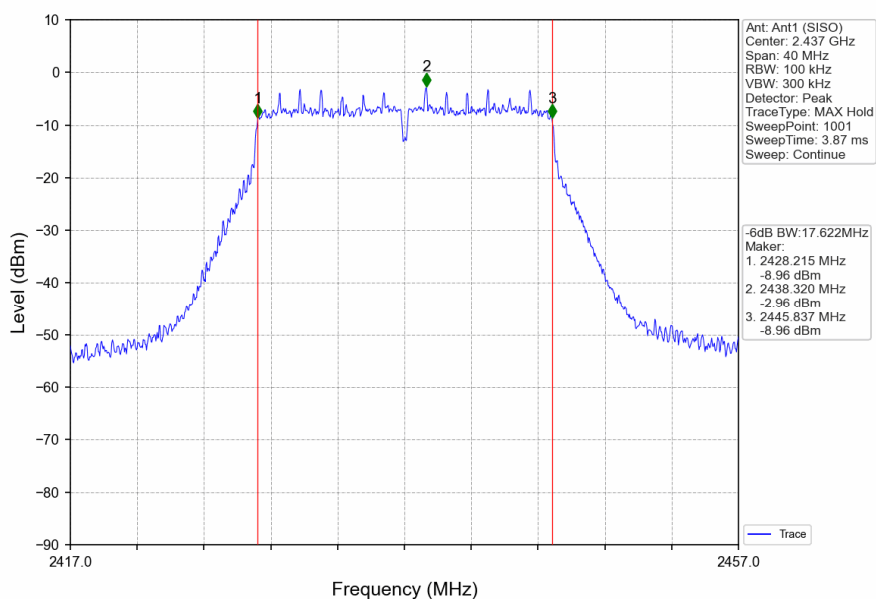
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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

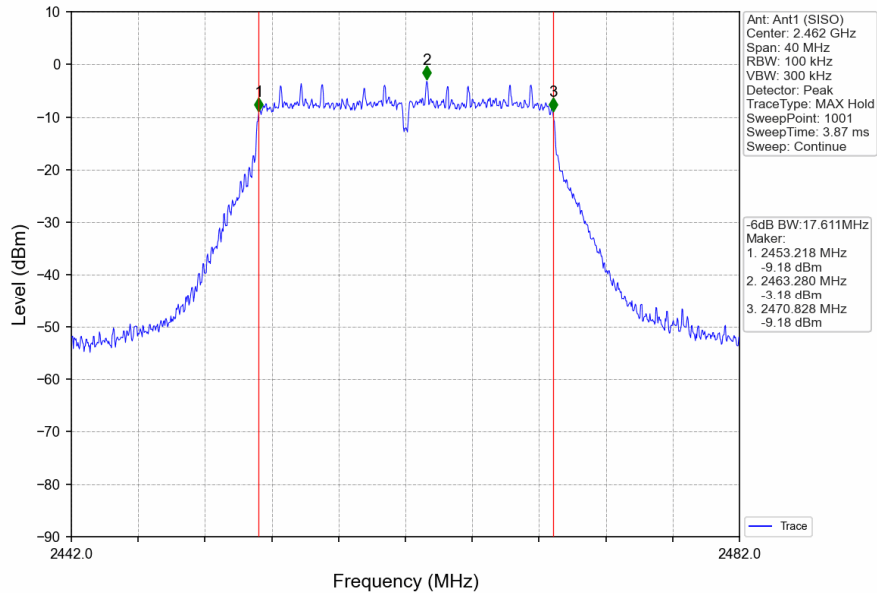


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

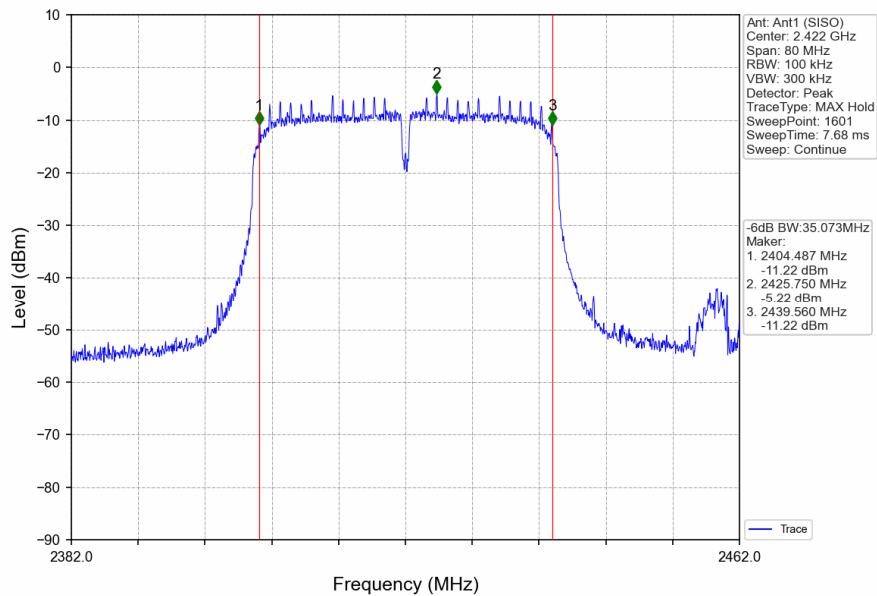




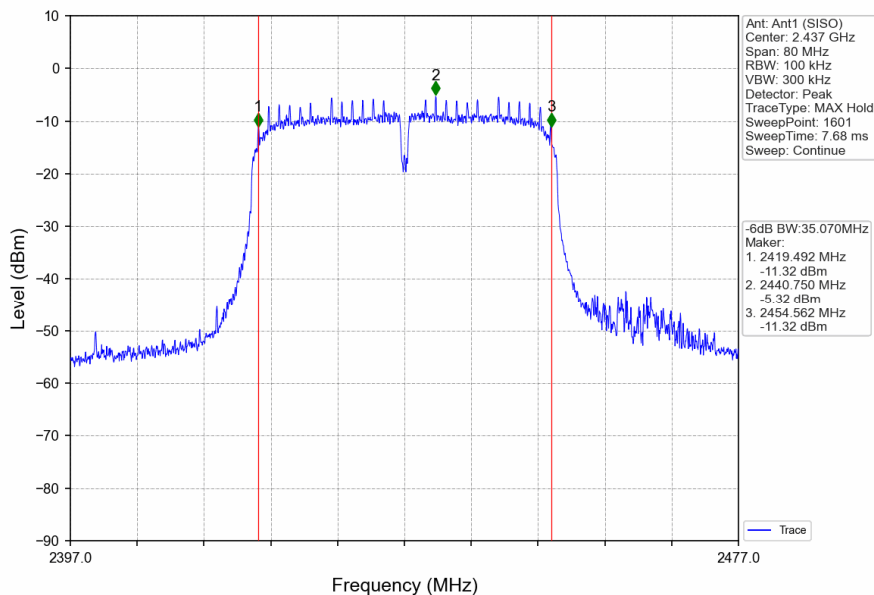
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



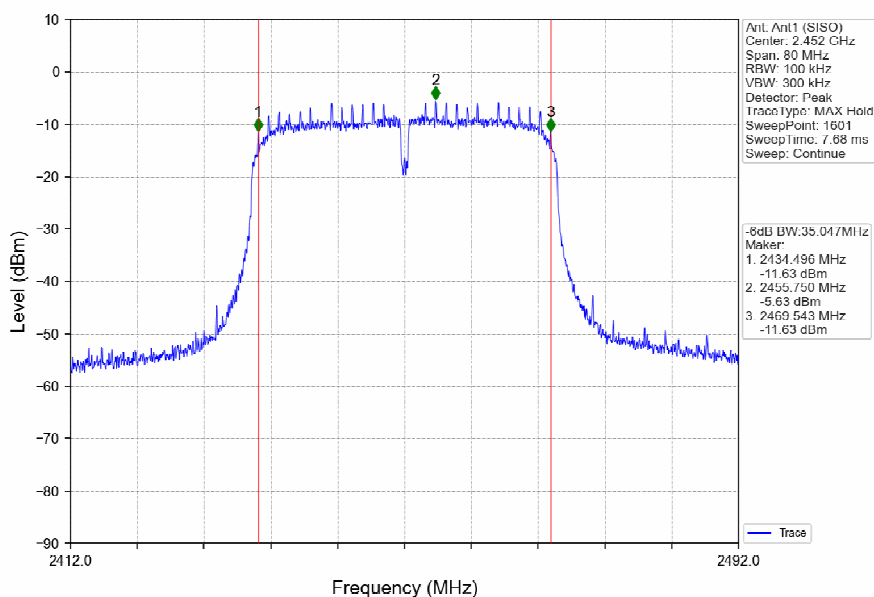
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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

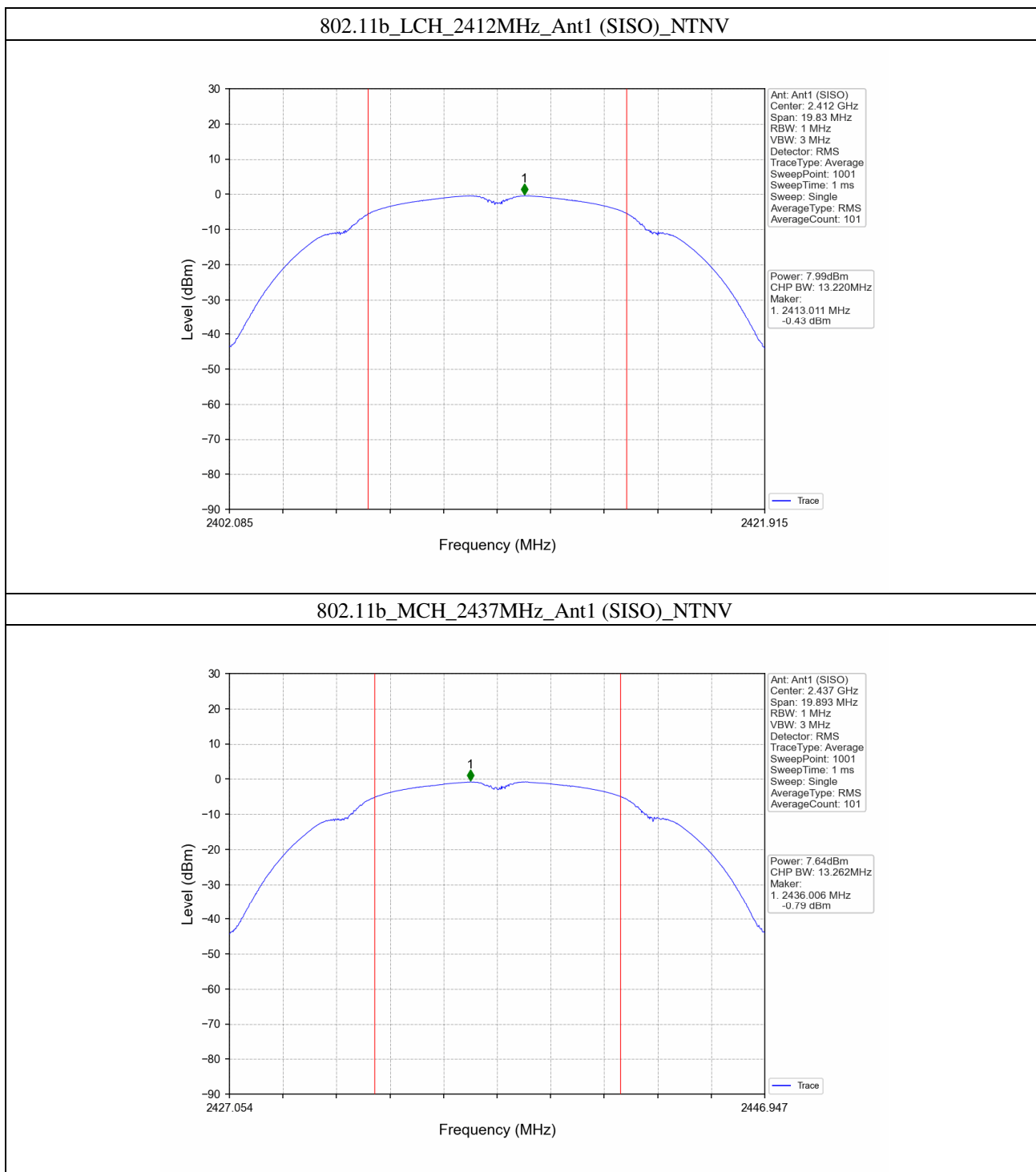
## 3.1 Power

## 3.1.1 Test Result

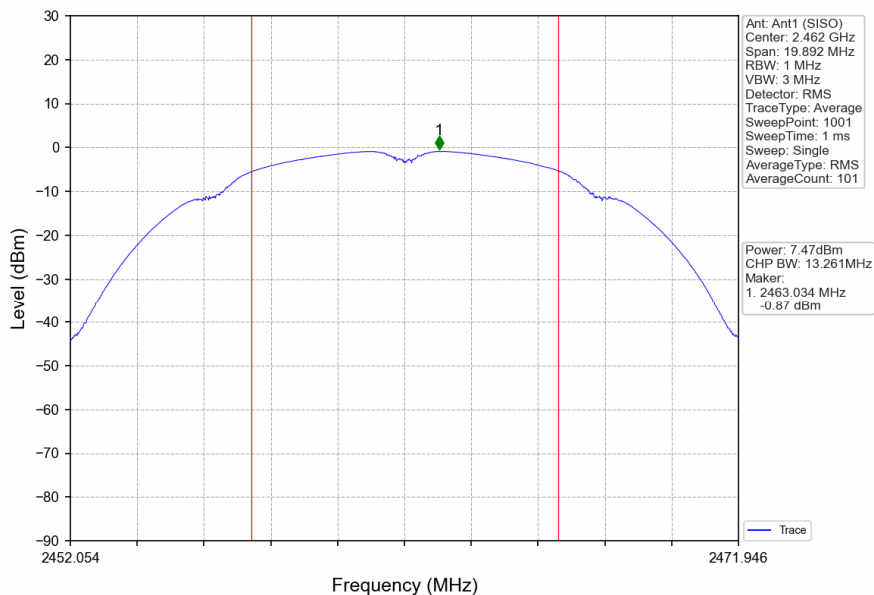
Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	7.99	<=30	Pass
		2437	7.64	<=30	Pass
		2462	7.47	<=30	Pass
802.11g	SISO	2412	8.36	<=30	Pass
		2437	8.01	<=30	Pass
		2462	7.84	<=30	Pass
802.11n (HT20)	SISO	2412	8.29	<=30	Pass
		2437	8.22	<=30	Pass
		2462	7.78	<=30	Pass
802.11n (HT40)	SISO	2422	8.52	<=30	Pass
		2437	8.36	<=30	Pass
		2452	8.22	<=30	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

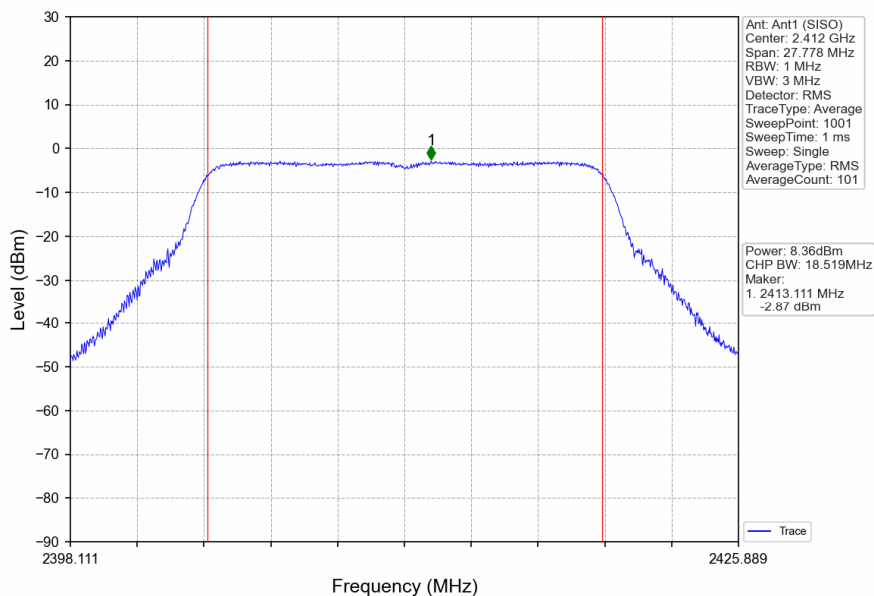
### 3.1.2 Test Graph



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

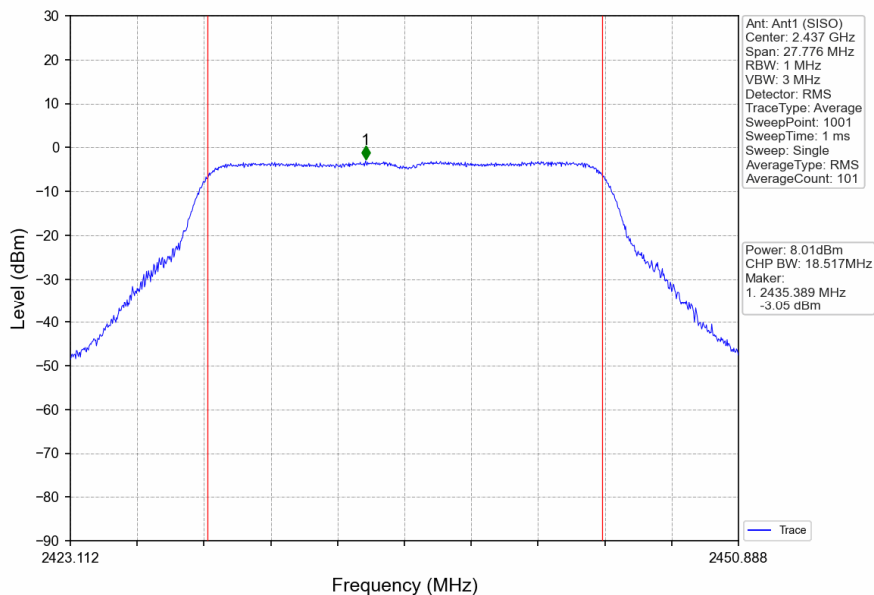


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

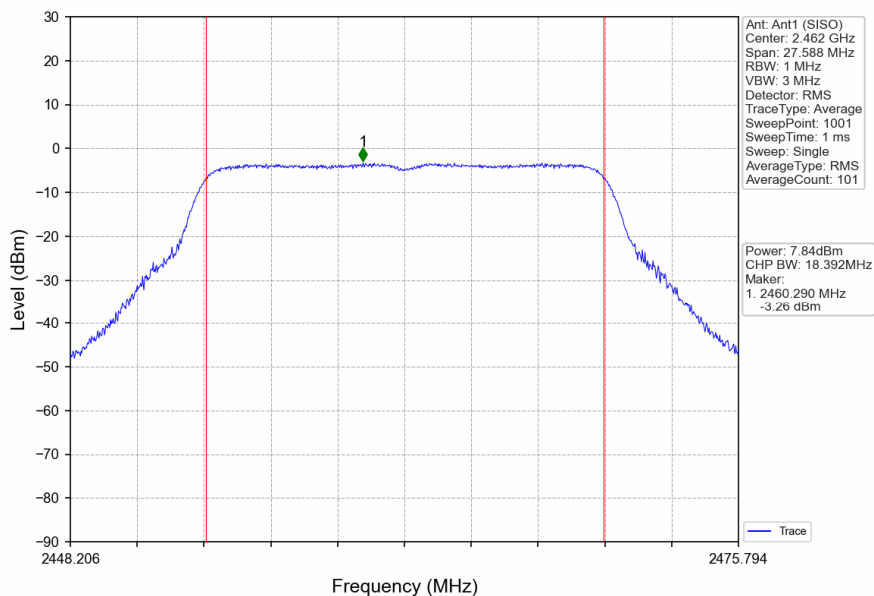




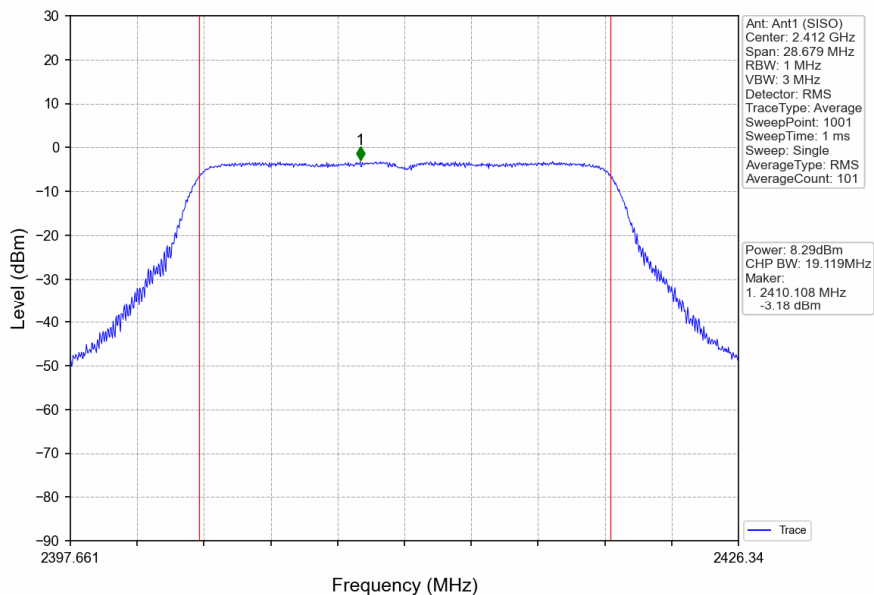
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



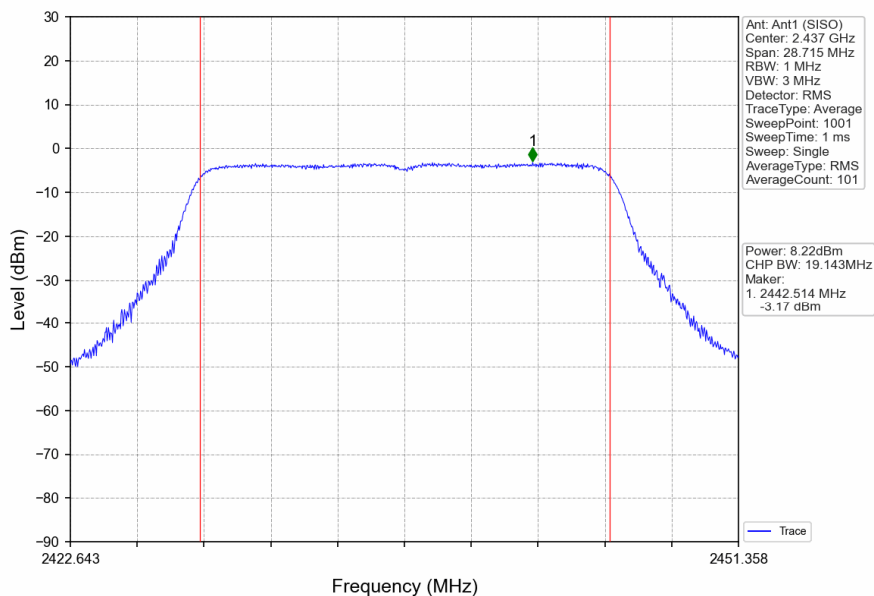
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



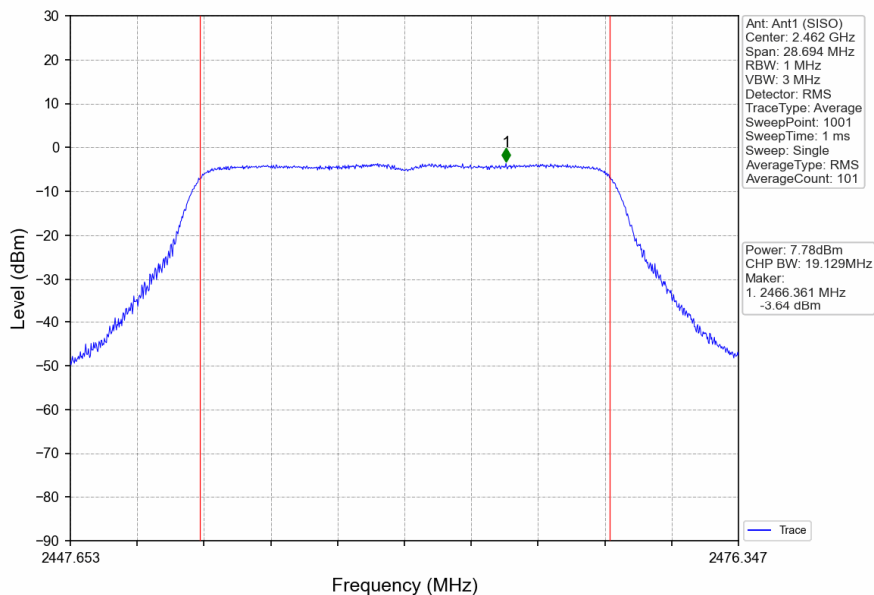
### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



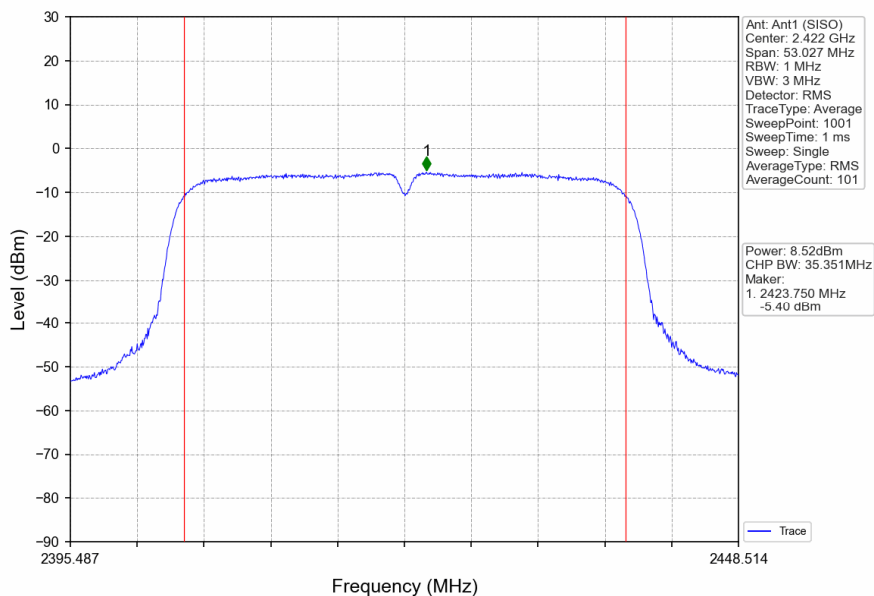
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



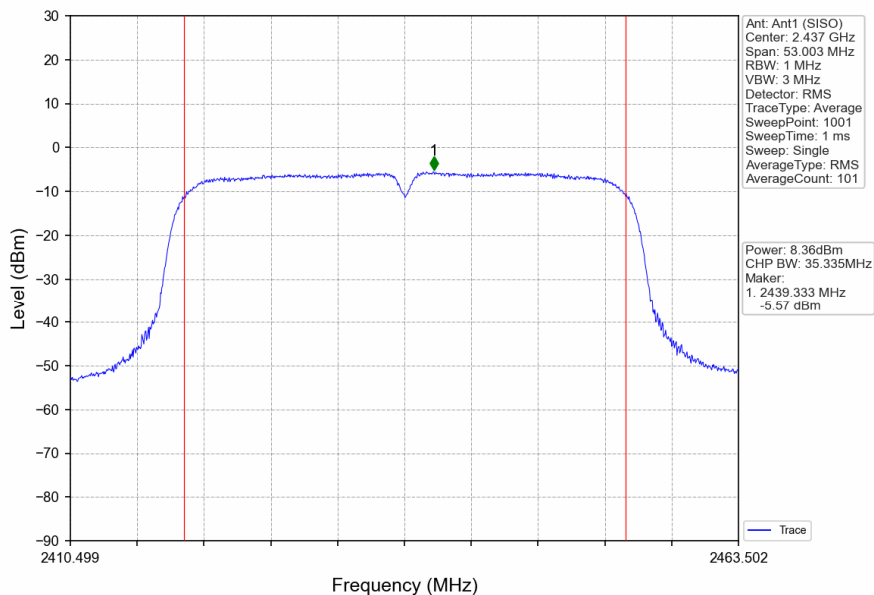
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



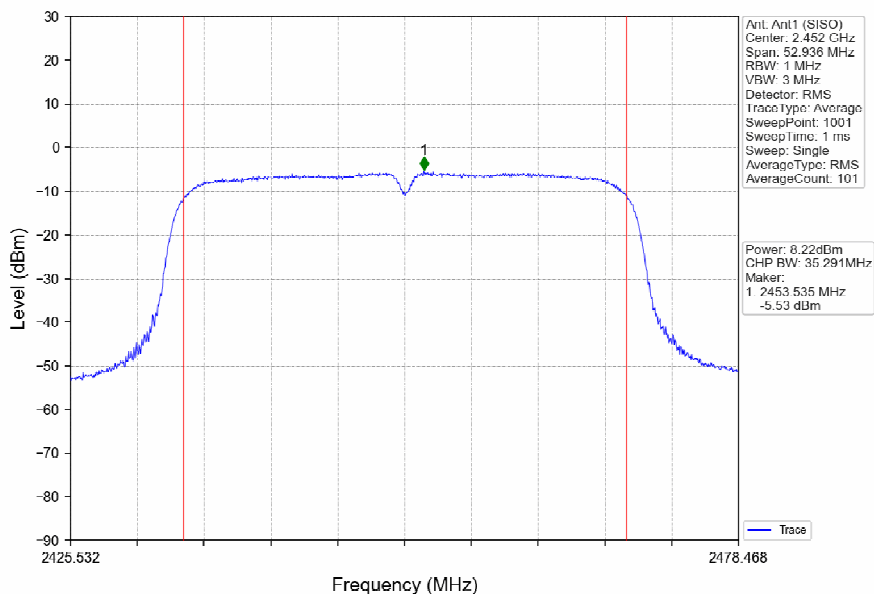
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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## 4. Maximum Power Spectral Density

## 4.1 PSD

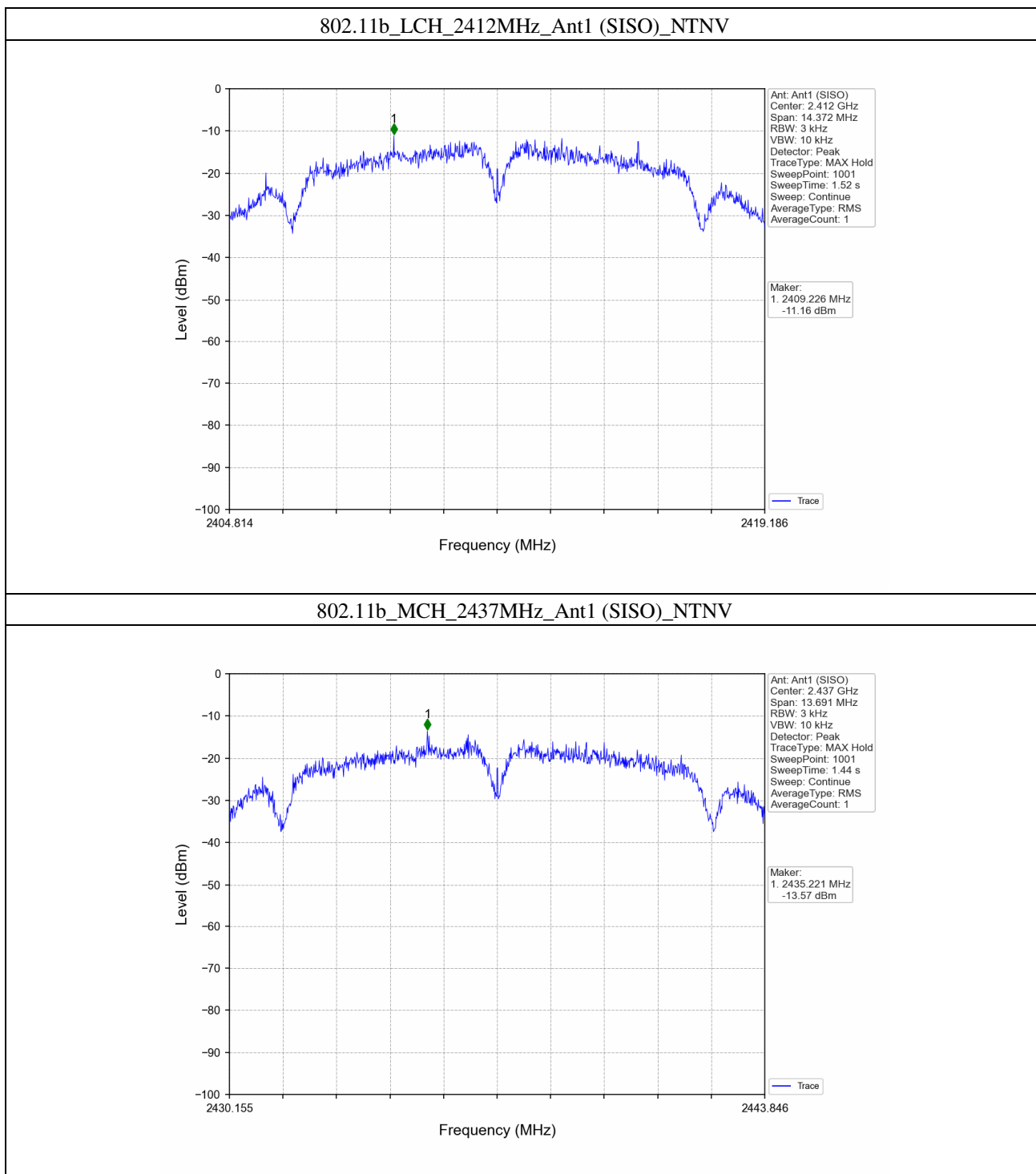
## 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-11.16	<=8	Pass
		2437	-13.57	<=8	Pass
		2462	-14.67	<=8	Pass
802.11g	SISO	2412	-16.13	<=8	Pass
		2437	-17.19	<=8	Pass
		2462	-17.72	<=8	Pass
802.11n (HT20)	SISO	2412	-16.29	<=8	Pass
		2437	-16.83	<=8	Pass
		2462	-17.30	<=8	Pass
802.11n (HT40)	SISO	2422	-18.26	<=8	Pass
		2437	-18.06	<=8	Pass
		2452	-18.47	<=8	Pass

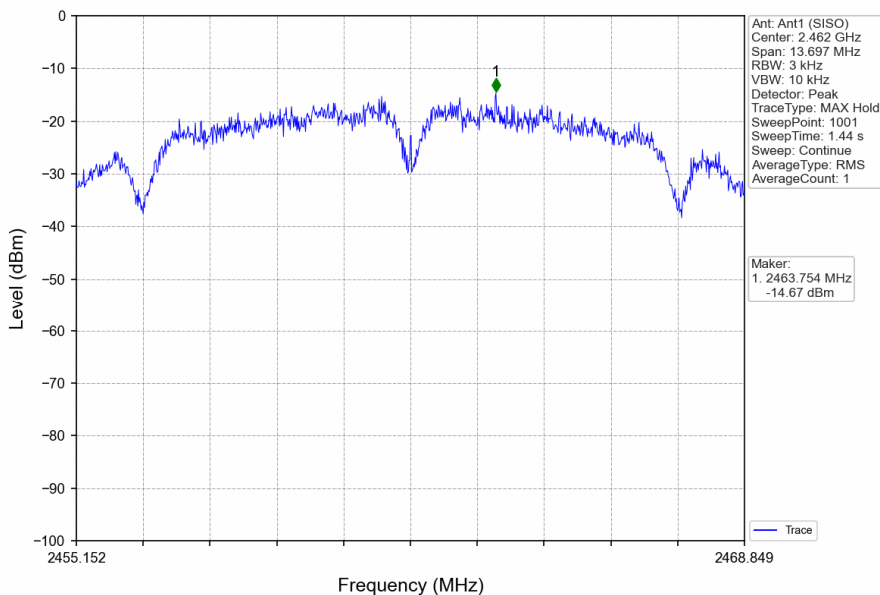
Note1: Antenna Gain: Ant1: 1.00dBi;



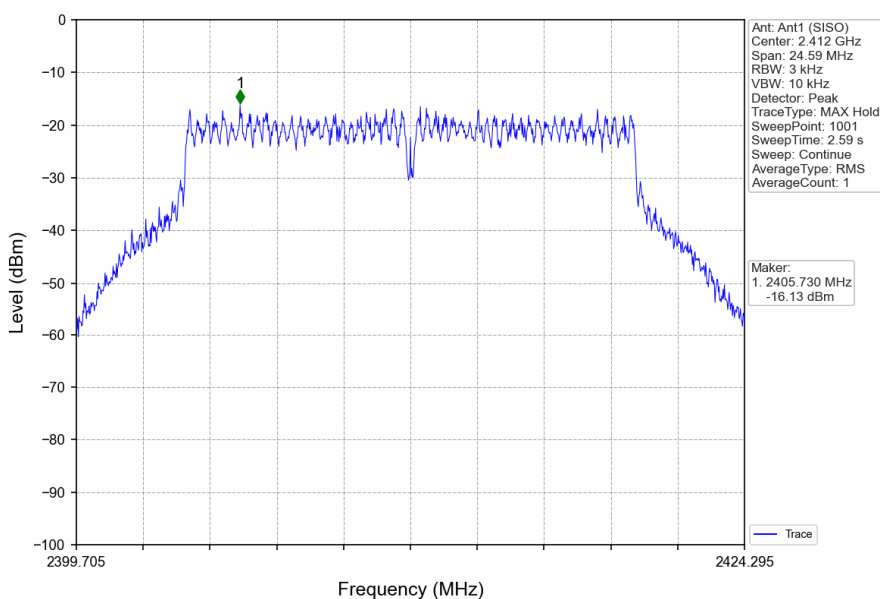
### 4.1.2 Test Graph



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

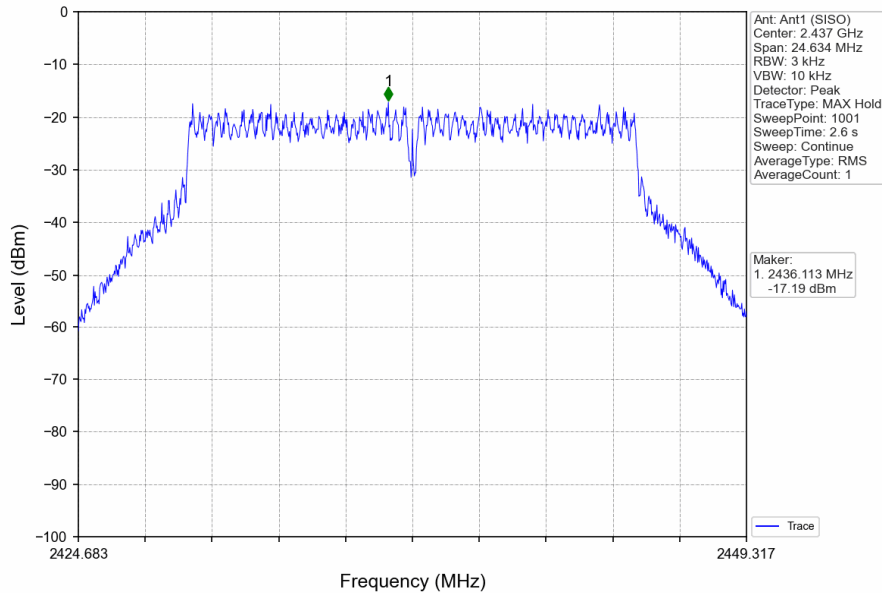


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

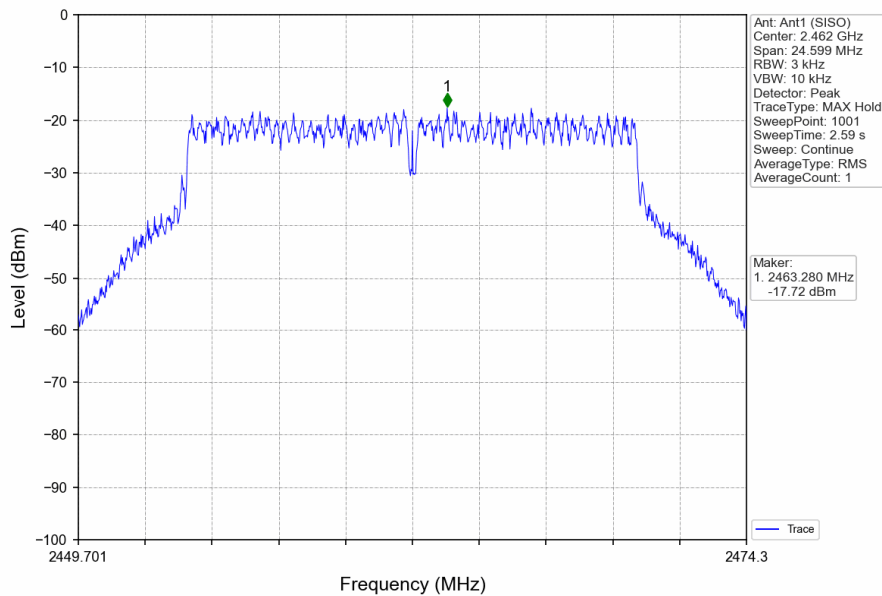


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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



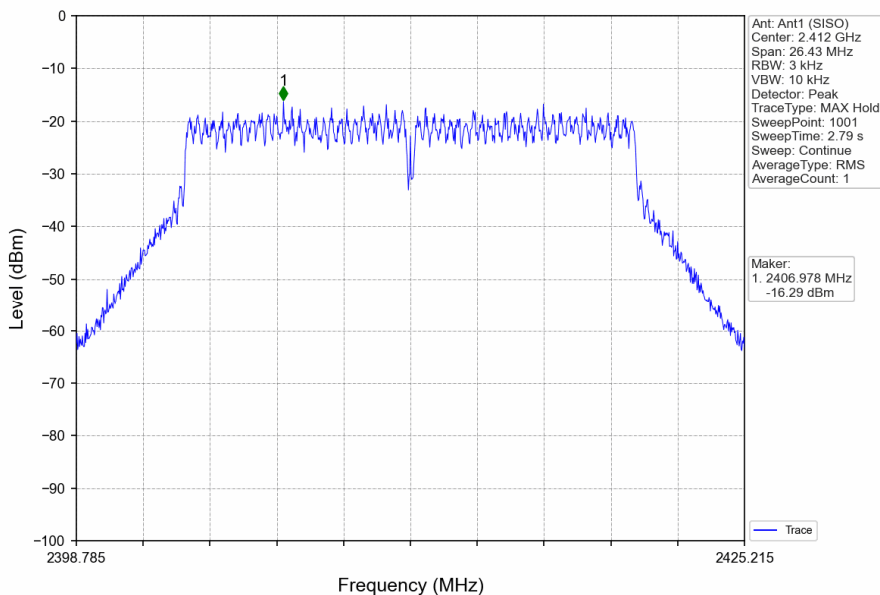
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



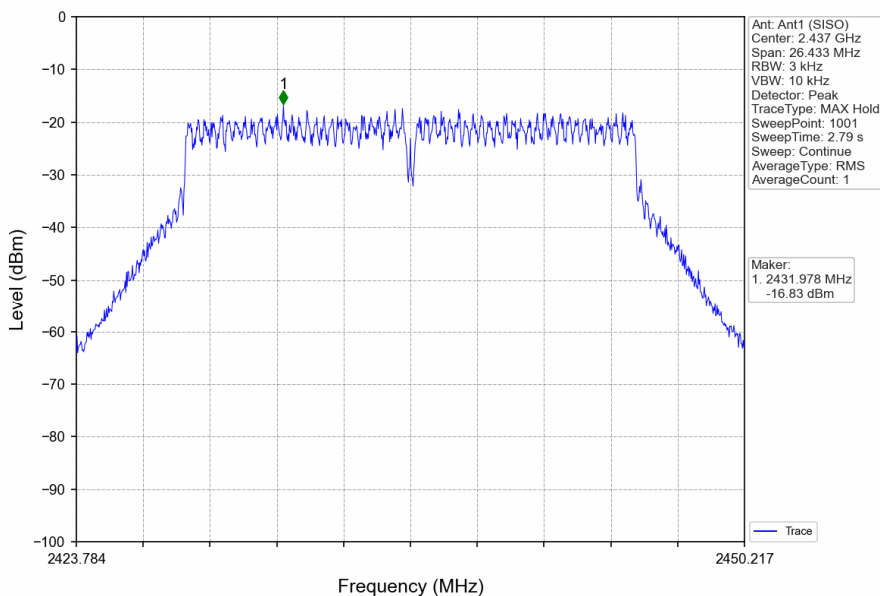
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 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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

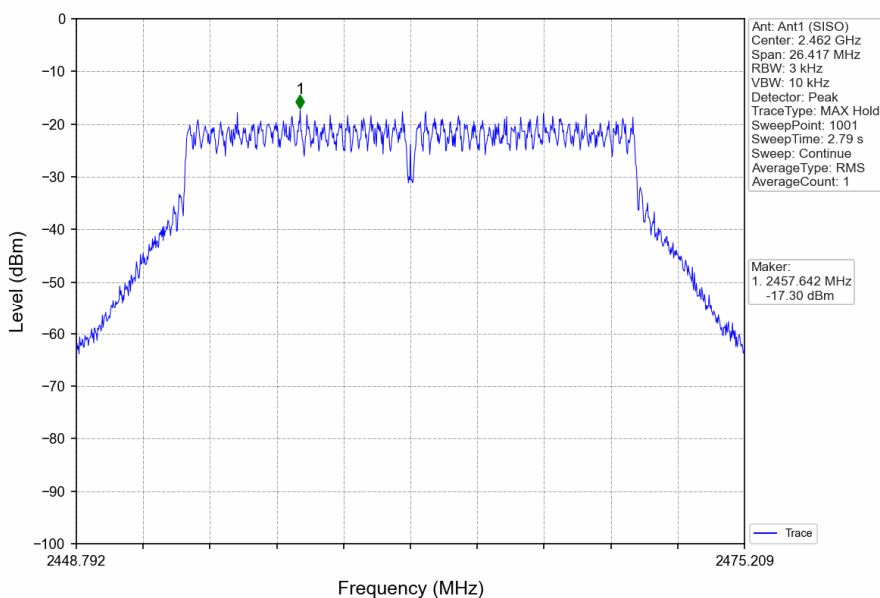


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

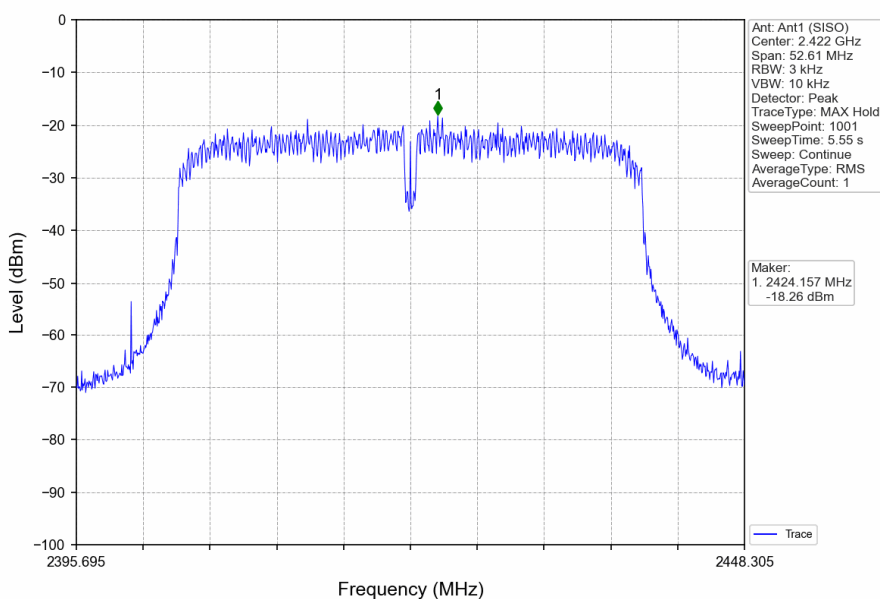


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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

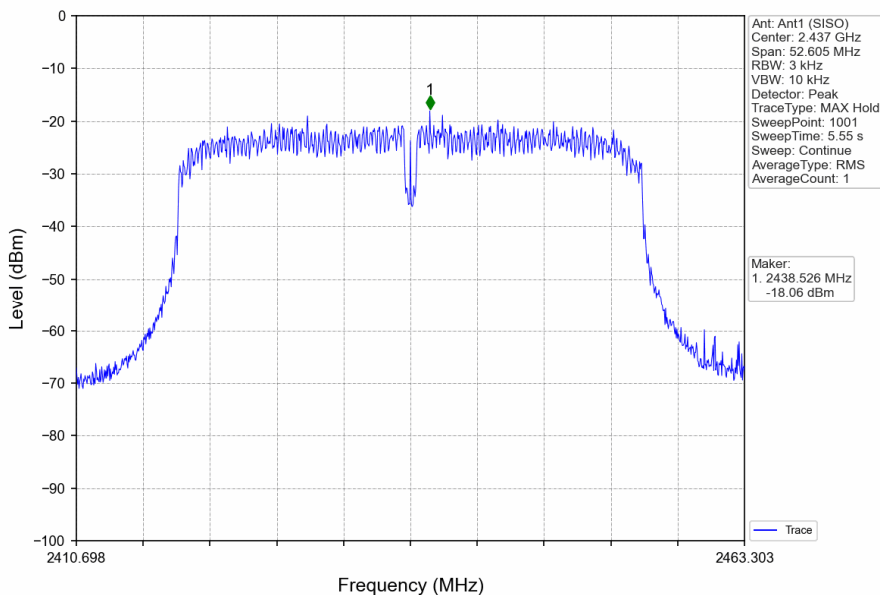


802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

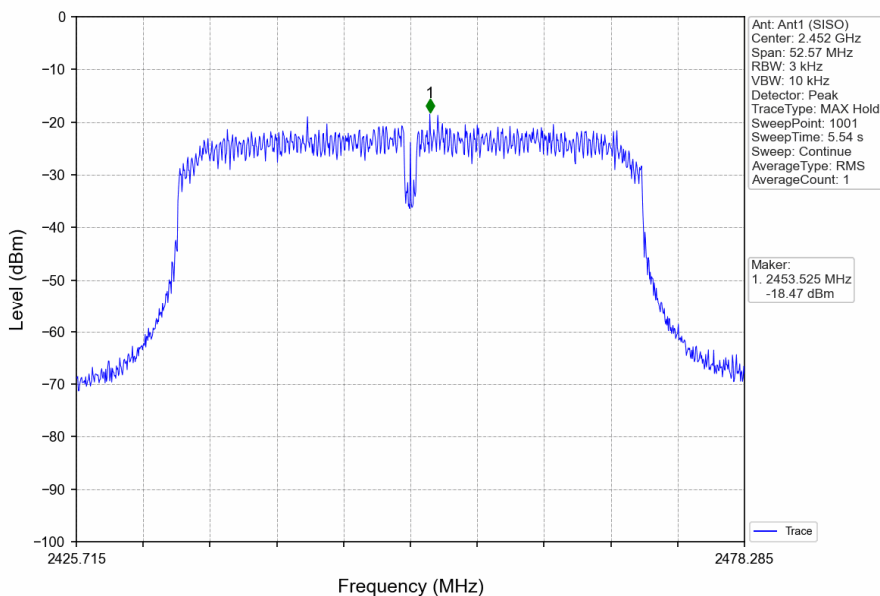




802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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

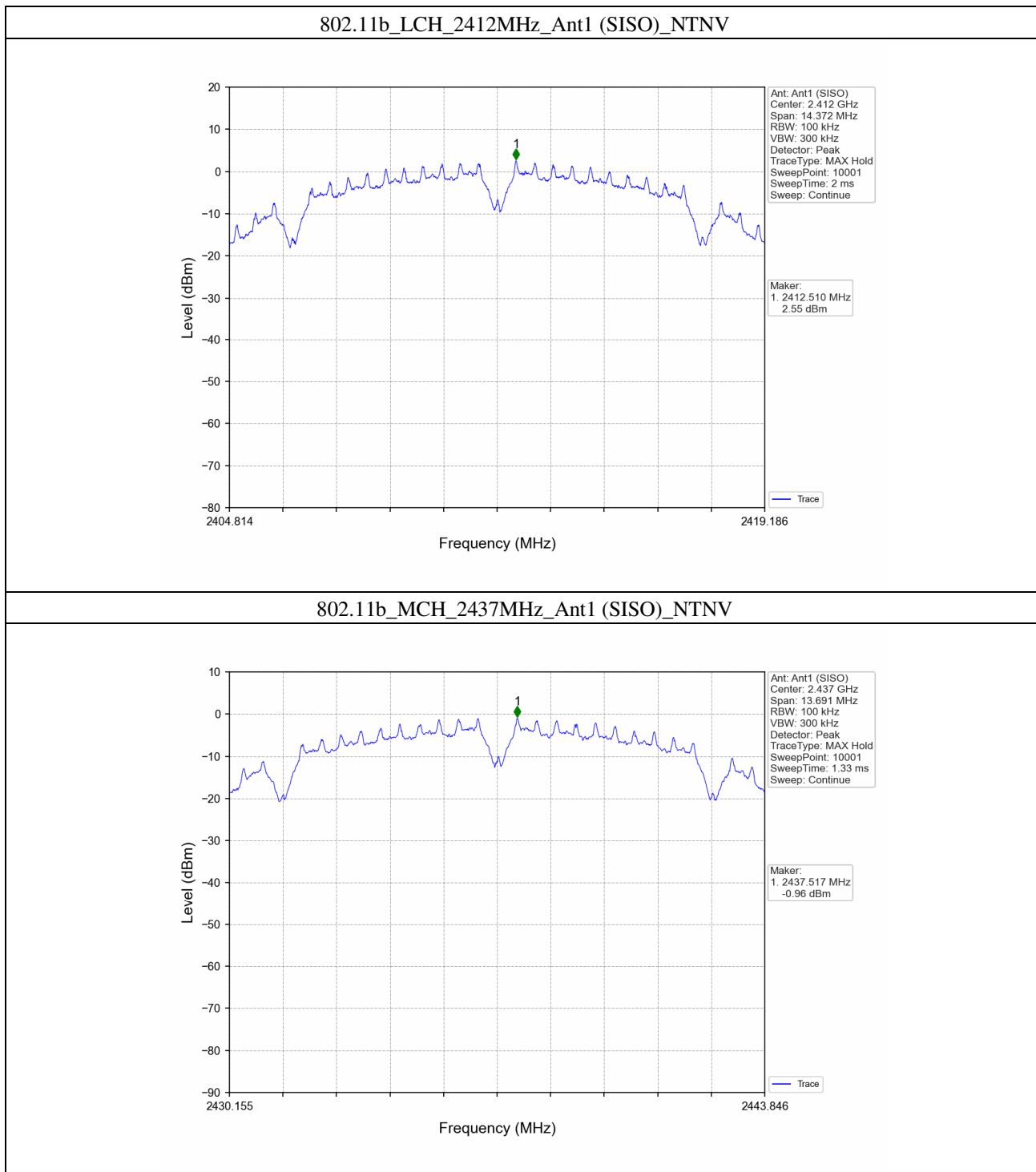
### 5.1 Ref

#### 5.1.1 Test Result

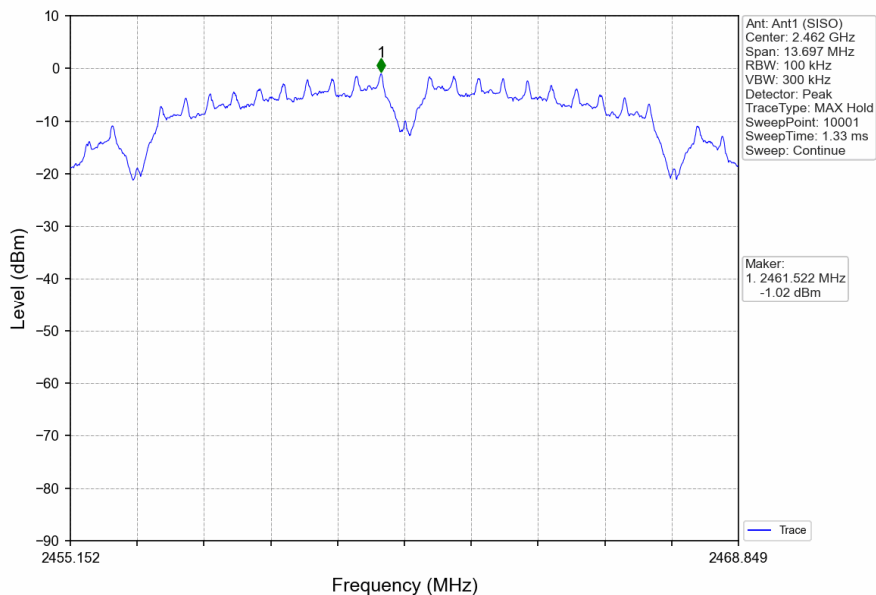
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	2.55
		2437	1	-0.96
		2462	1	-1.02
802.11g	SISO	2412	1	-2.76
		2437	1	-3.52
		2462	1	-3.79
802.11n (HT20)	SISO	2412	1	-3.37
		2437	1	-3.06
		2462	1	-3.92
802.11n (HT40)	SISO	2422	1	-5.30
		2437	1	-5.57
		2452	1	-5.47

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.

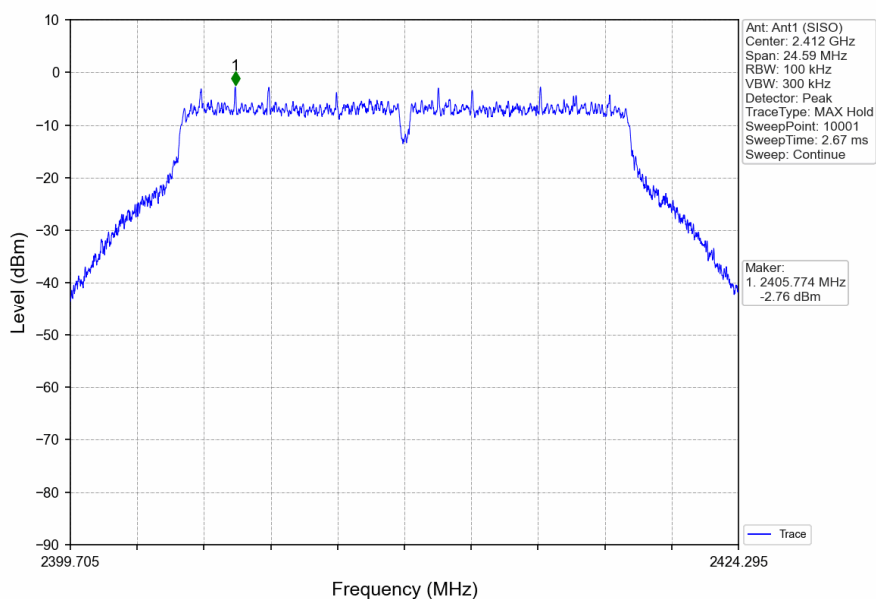
### 5.1.2 Test Graph



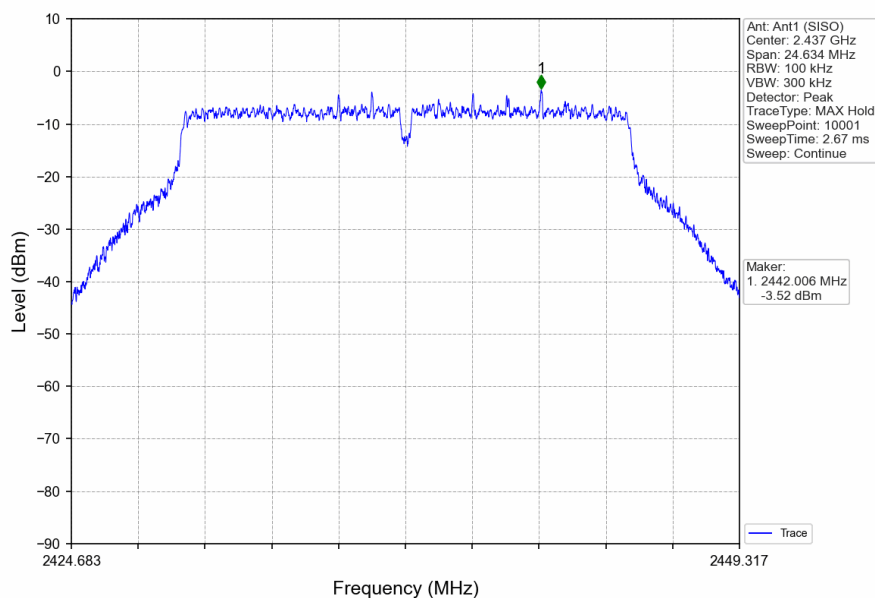
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



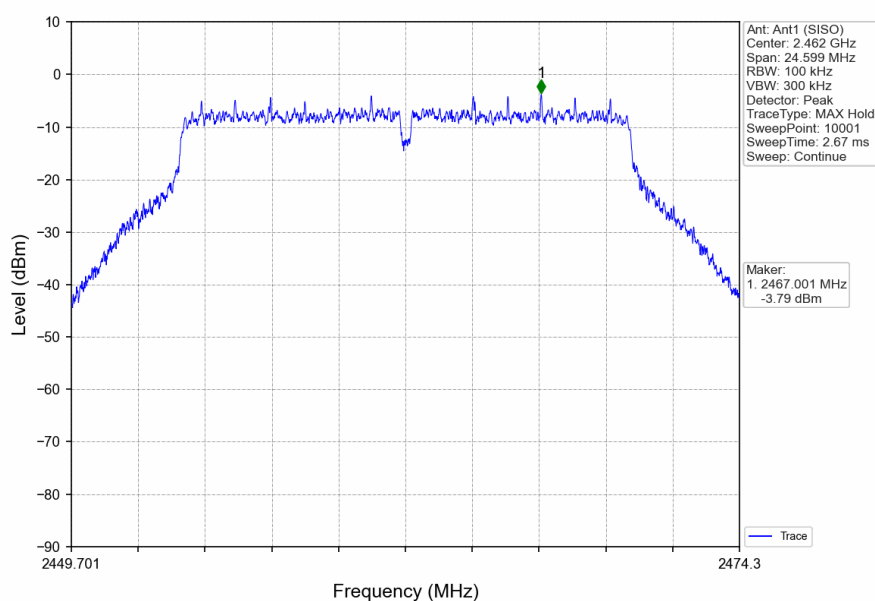
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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

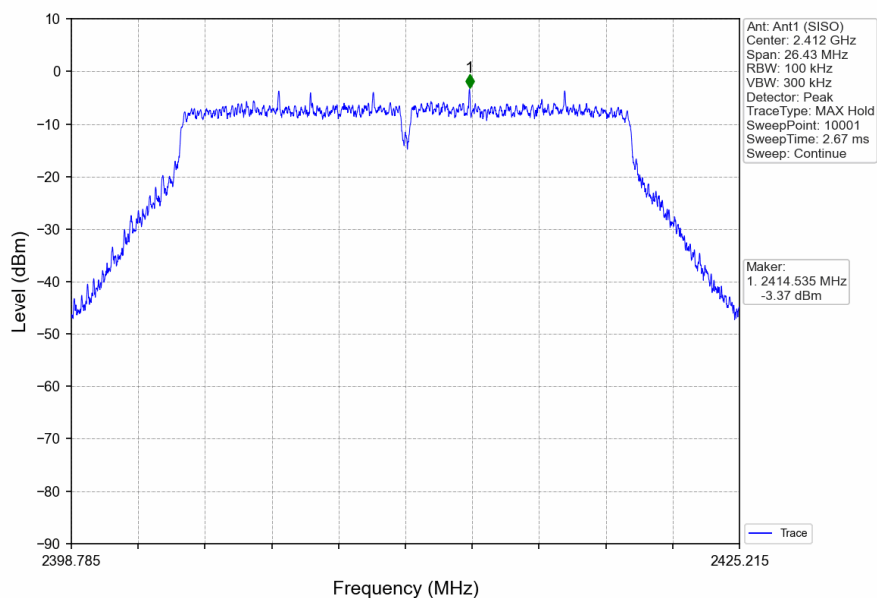


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

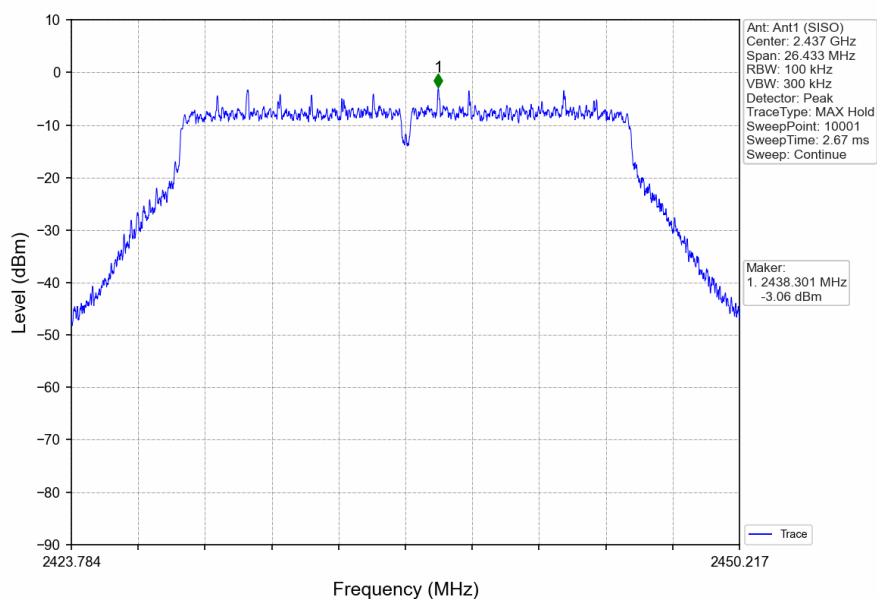




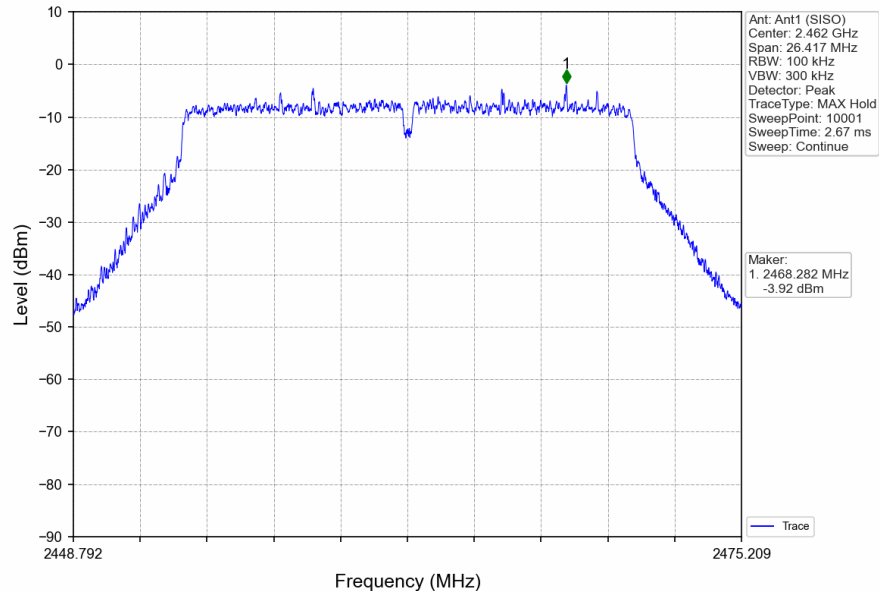
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



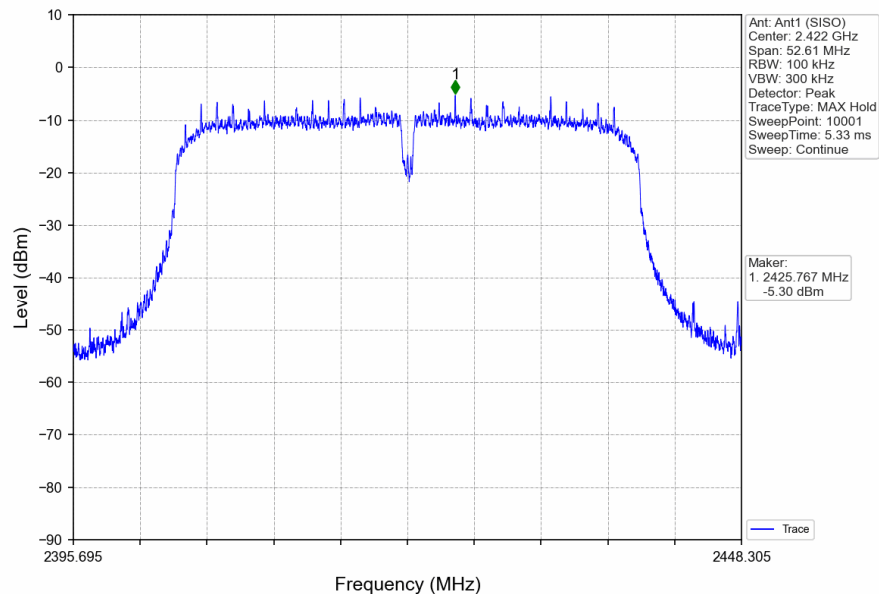
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



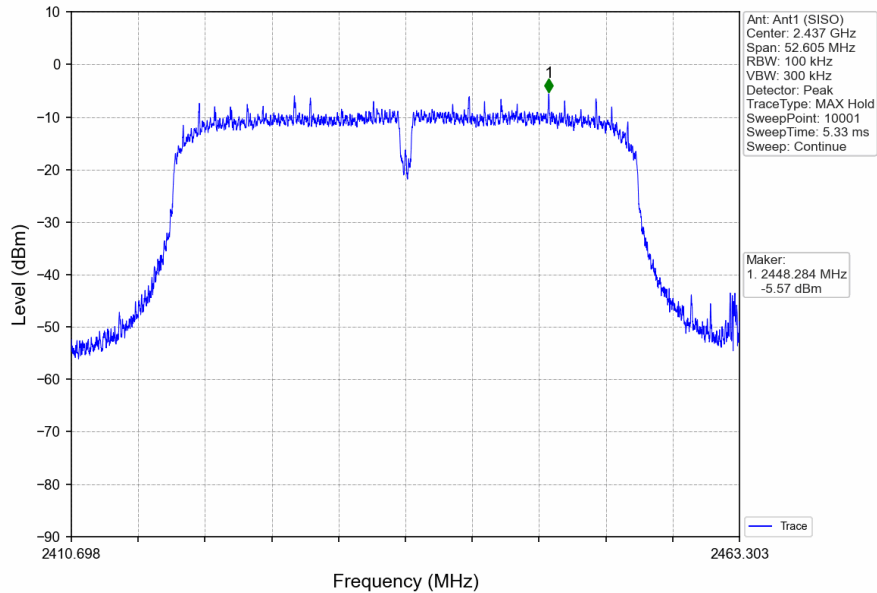
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



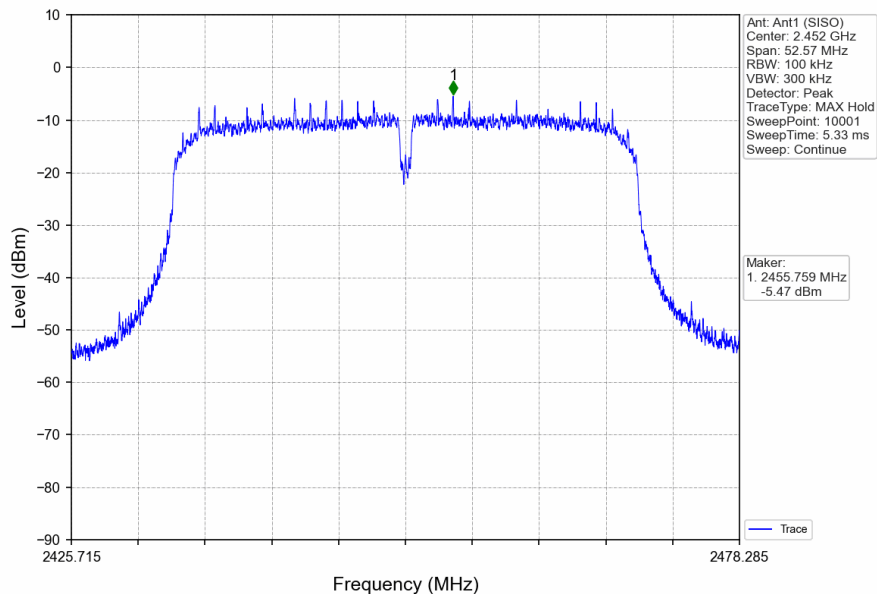
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



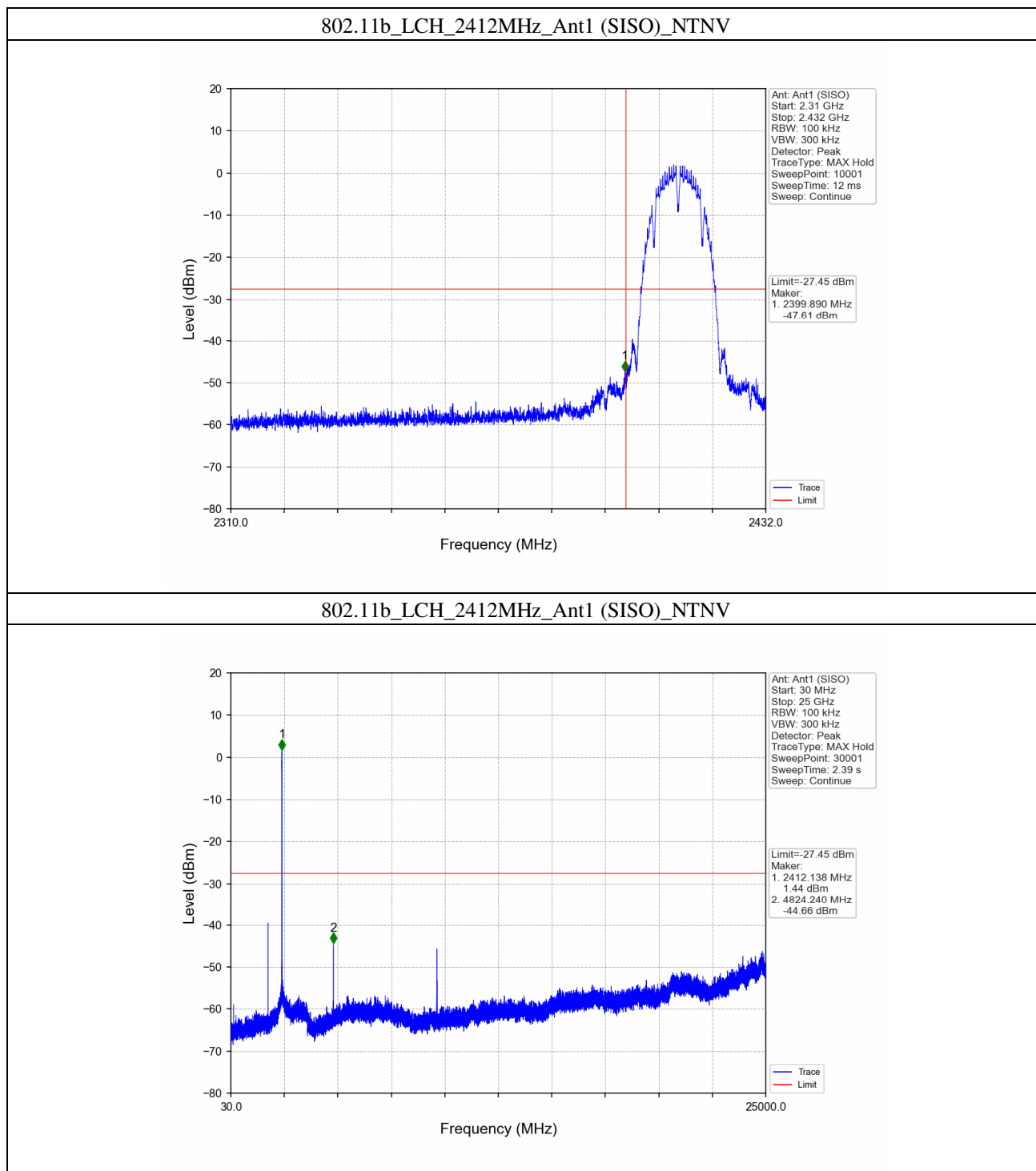
## 5.2 CSE

### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.55	-27.45	Pass
		2437	1	2.55	-27.45	Pass
		2462	1	2.55	-27.45	Pass
802.11g	SISO	2412	1	-2.76	-32.76	Pass
		2437	1	-2.76	-32.76	Pass
		2462	1	-2.76	-32.76	Pass
802.11n (HT20)	SISO	2412	1	-3.06	-33.06	Pass
		2437	1	-3.06	-33.06	Pass
		2462	1	-3.06	-33.06	Pass
802.11n (HT40)	SISO	2422	1	-5.30	-35.30	Pass
		2437	1	-5.30	-35.30	Pass
		2452	1	-5.30	-35.30	Pass

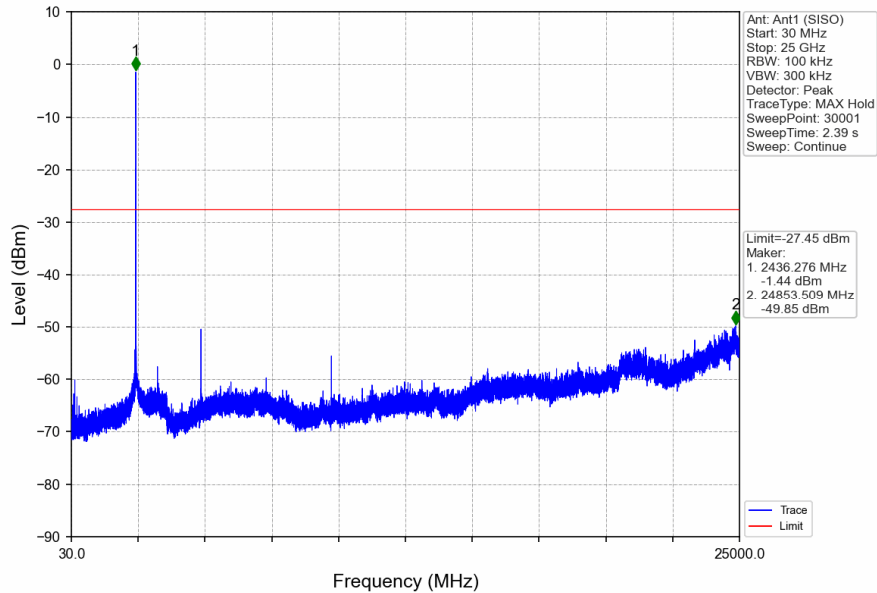
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

## 5.2.2 Test Graph

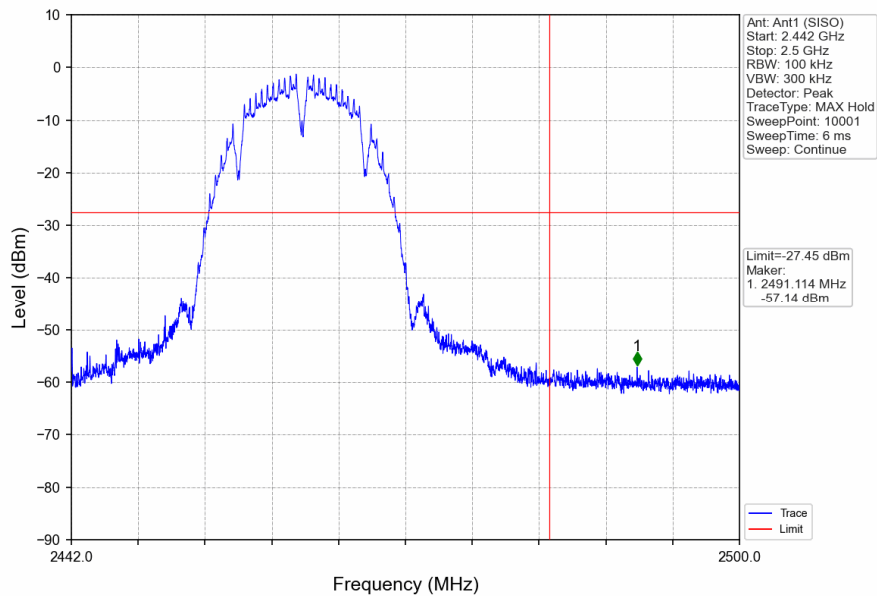




### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



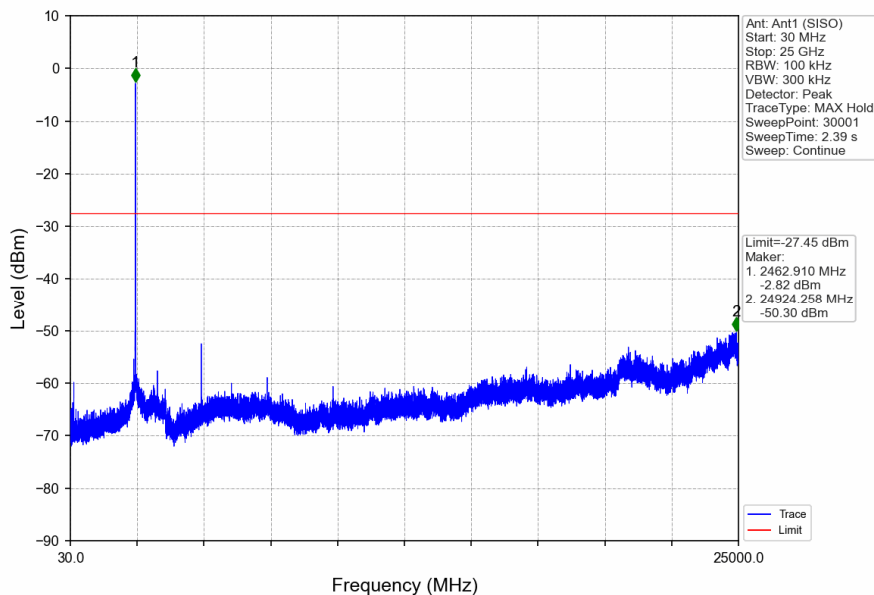
### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



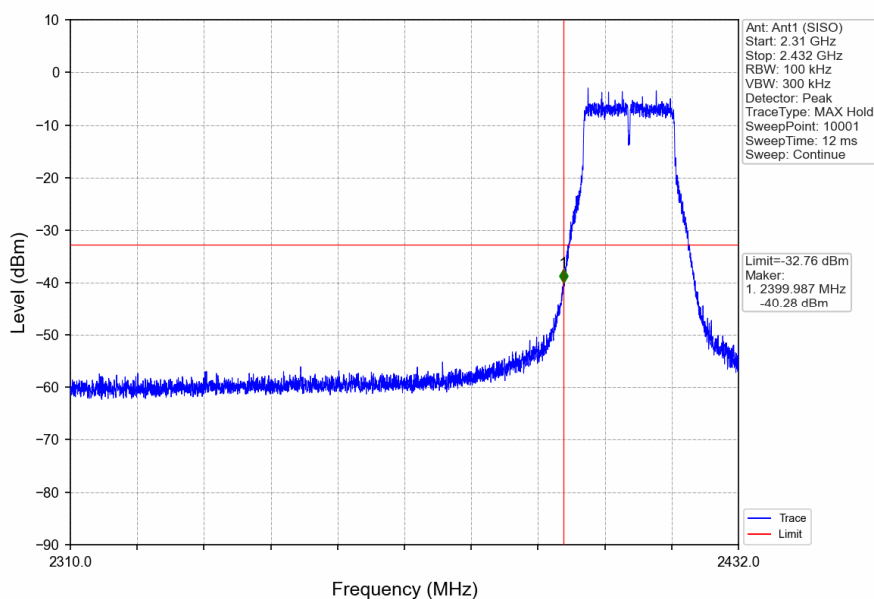
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

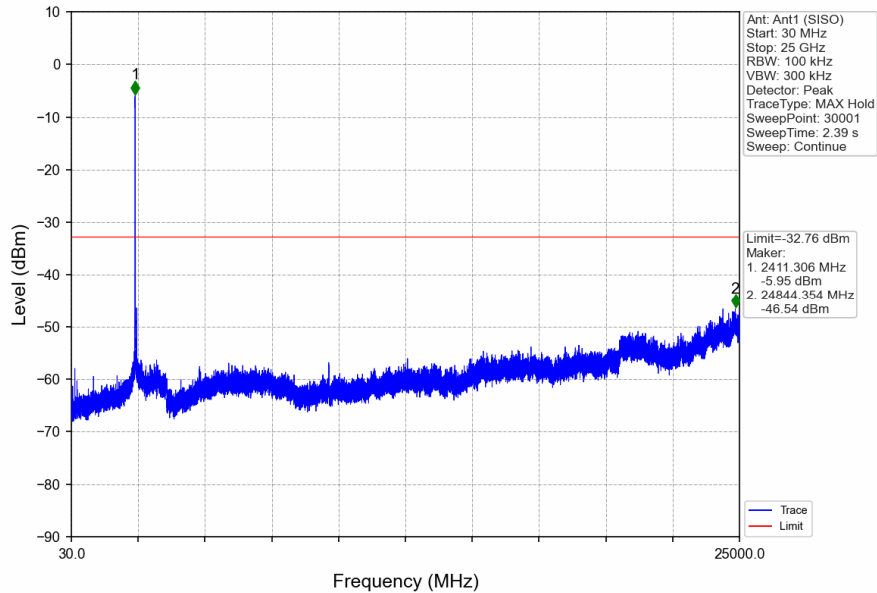


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

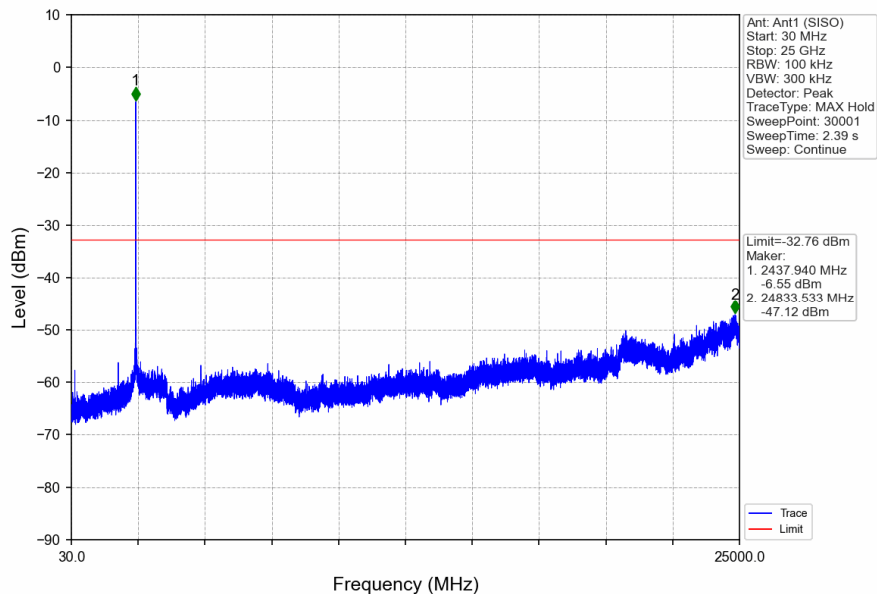


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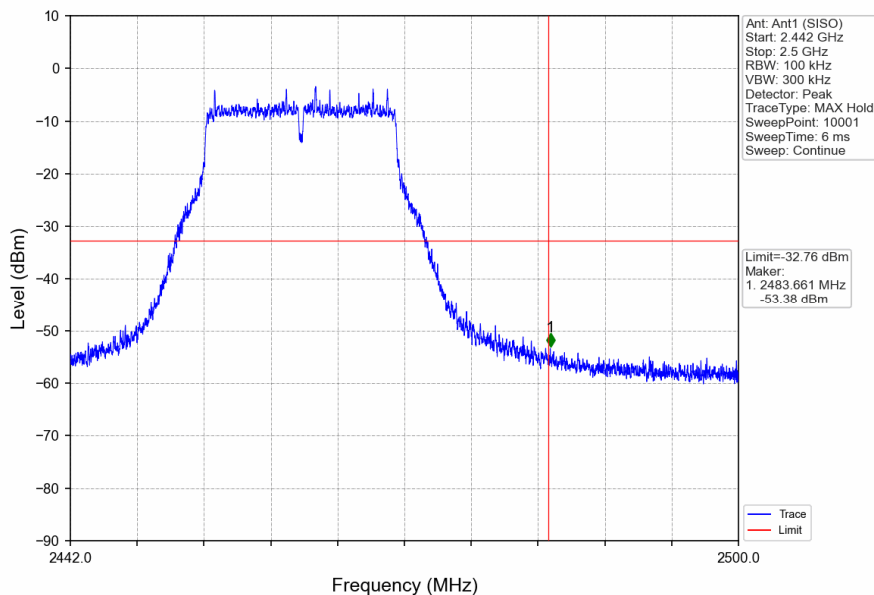
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



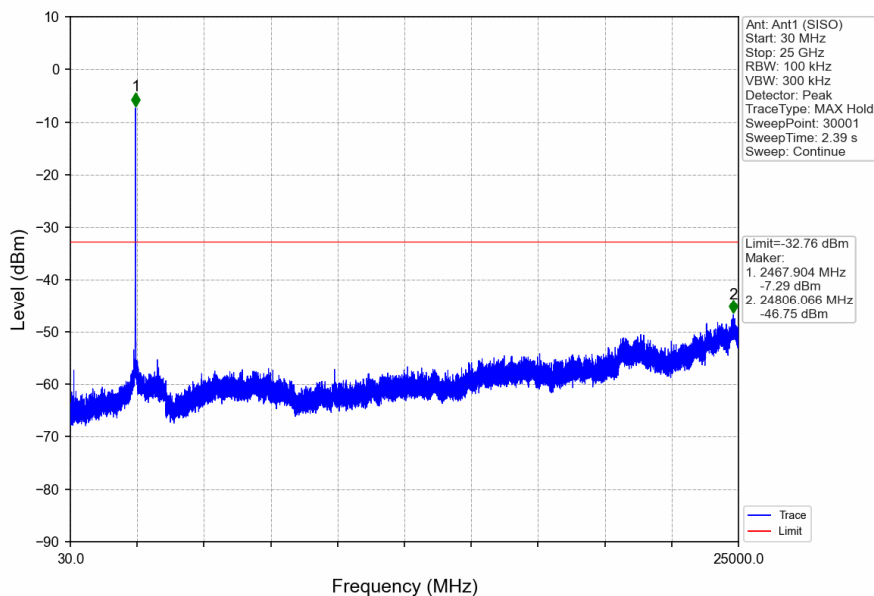
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



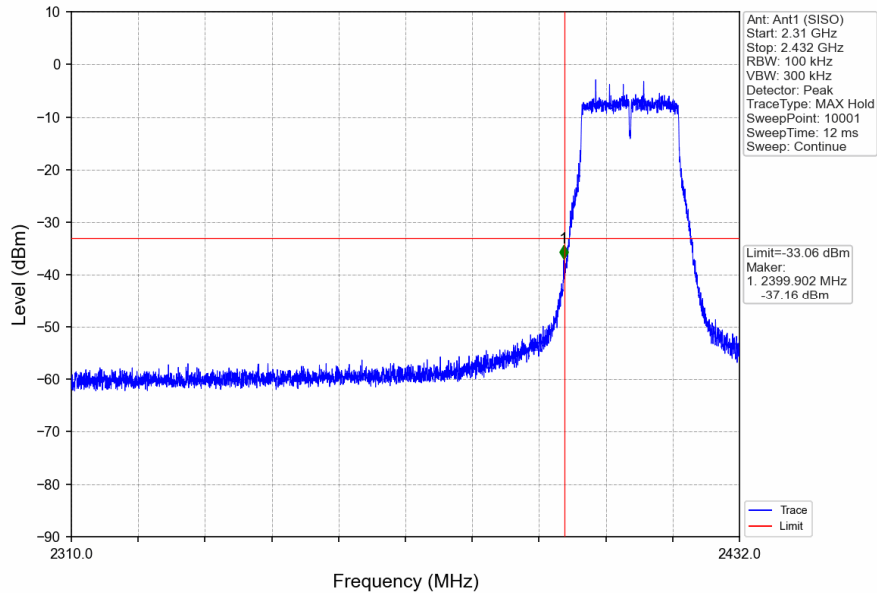
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



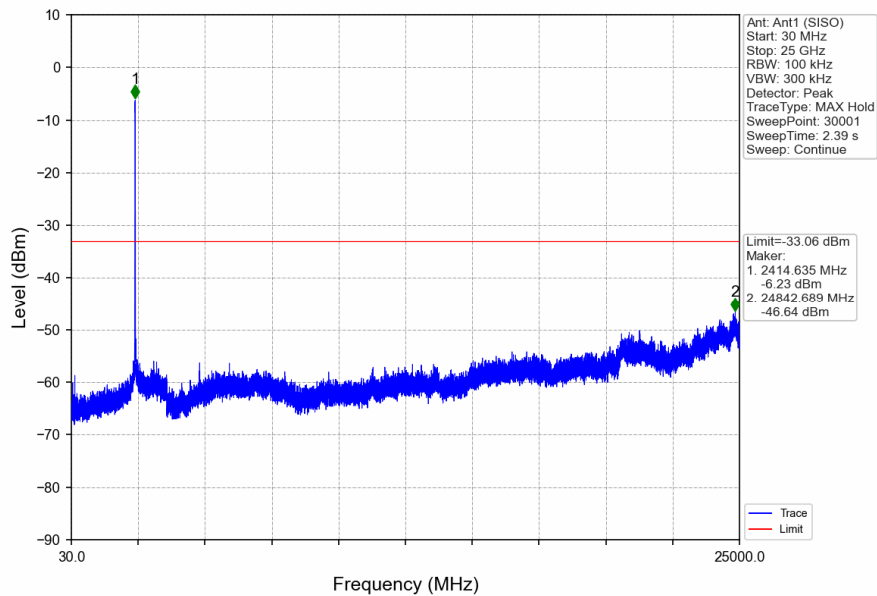
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

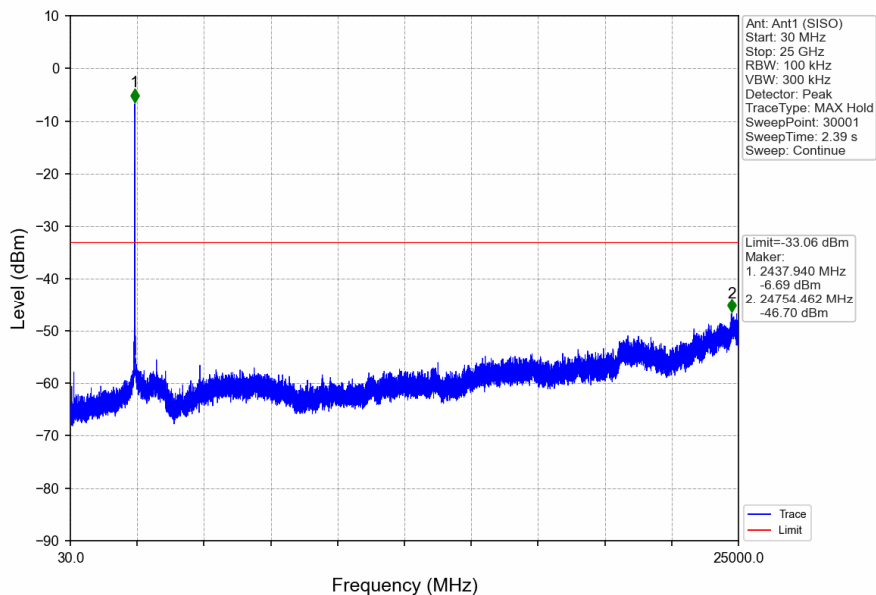


### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

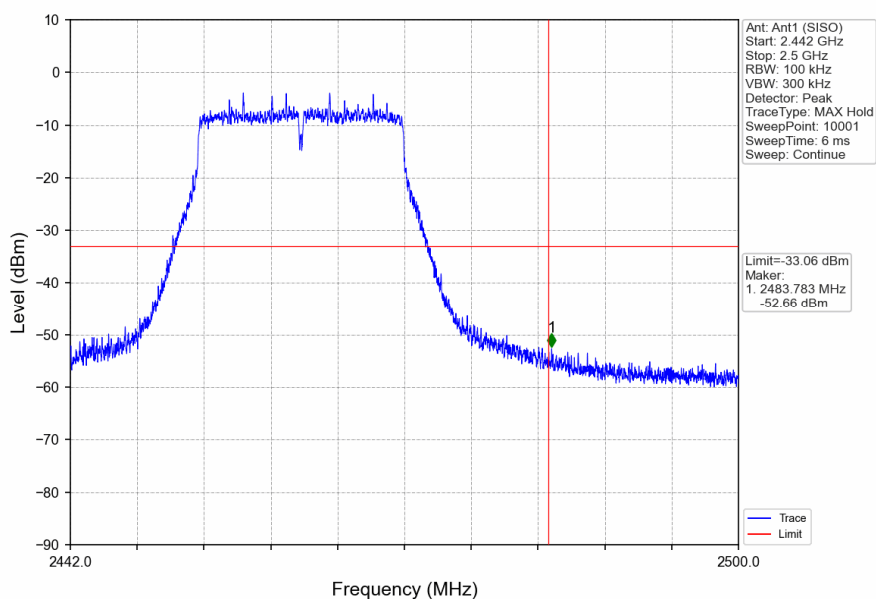




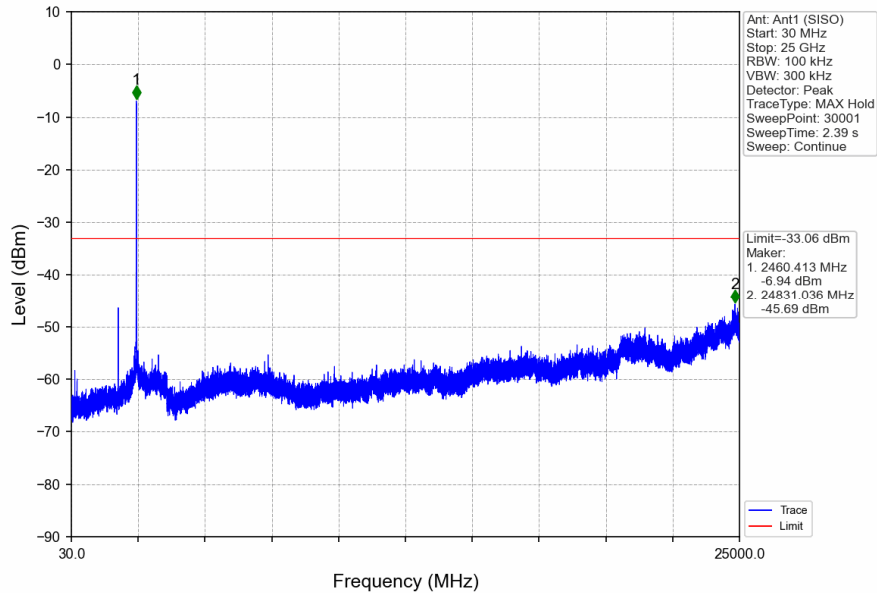
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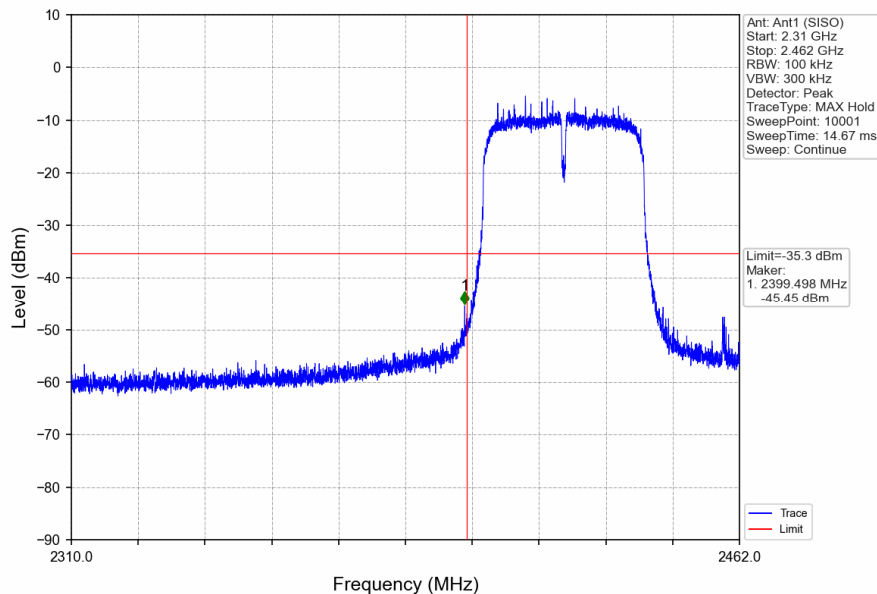
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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

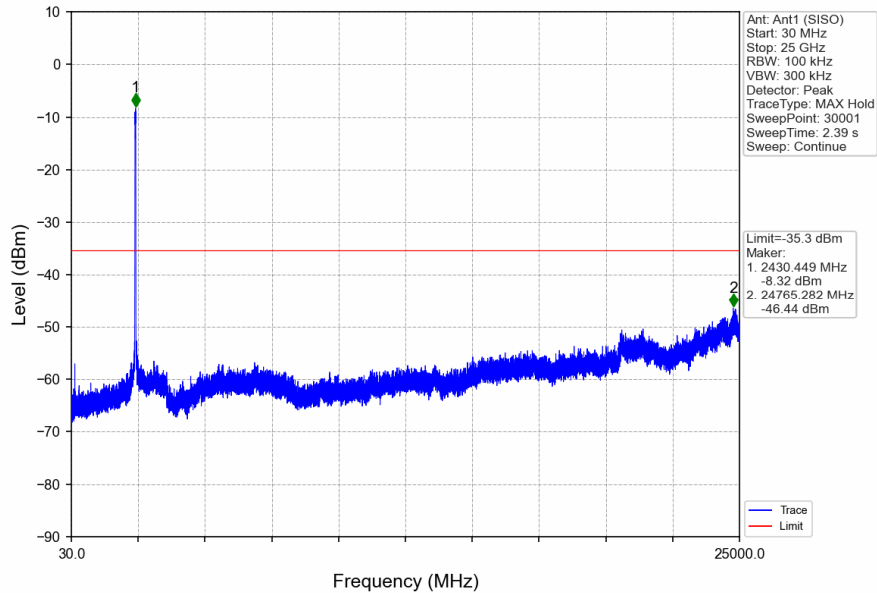


### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

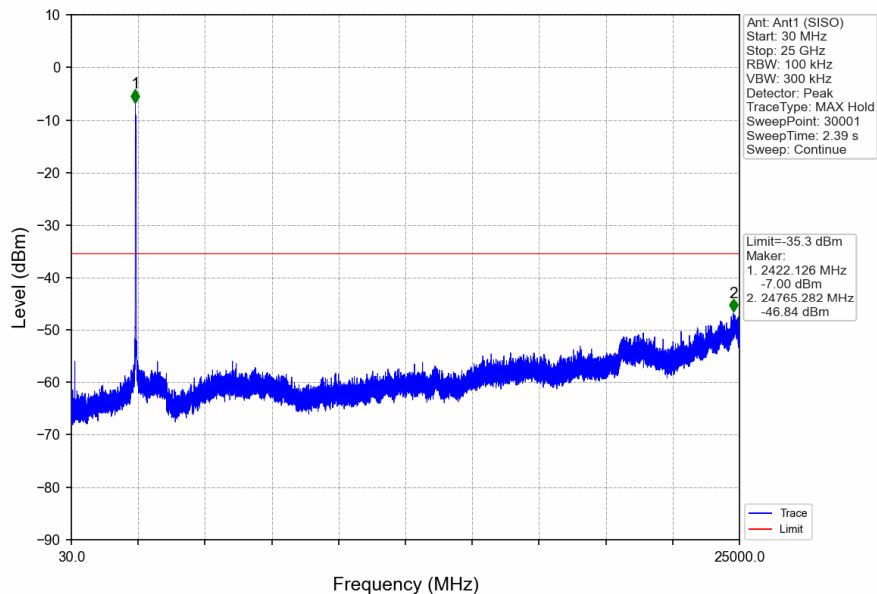


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### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



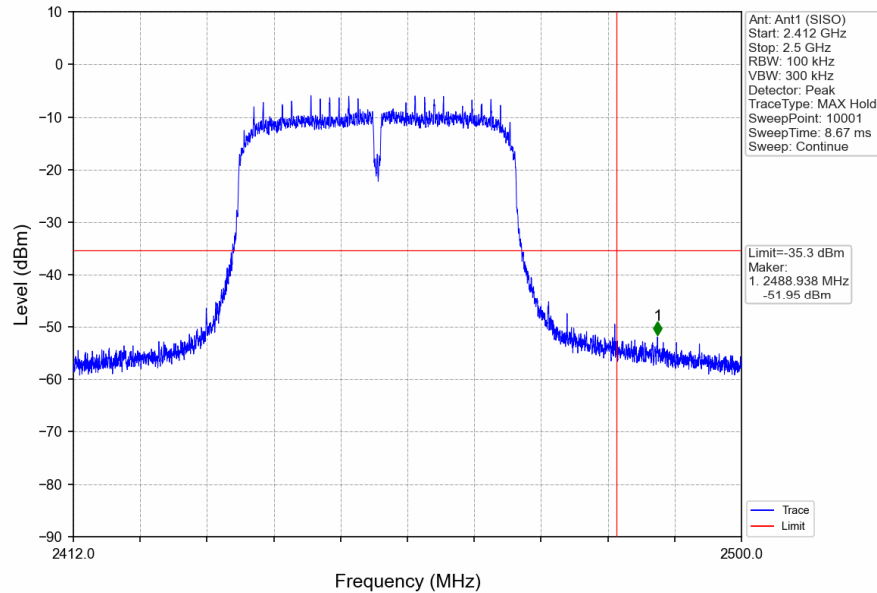
### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



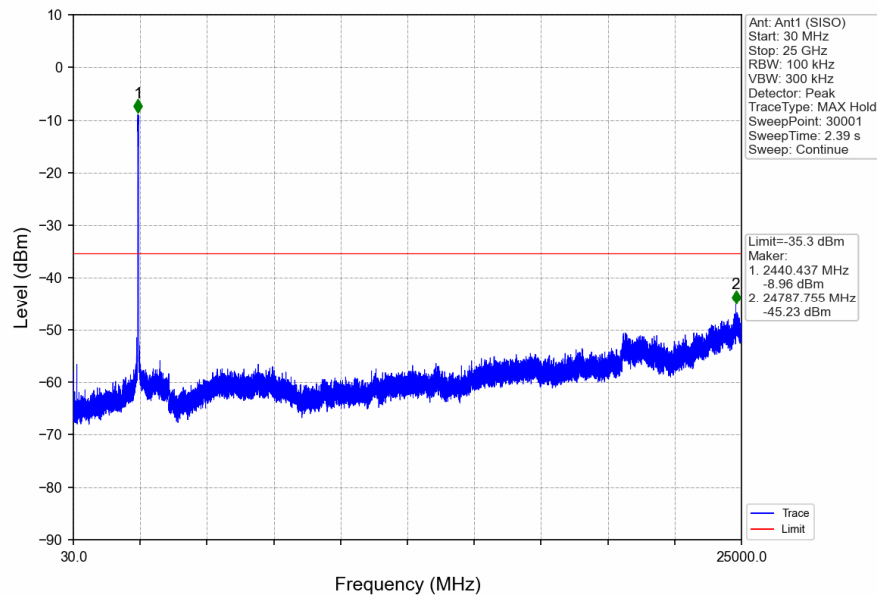
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### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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



- End of the Report -