

## Appendix Test Data

Project No.:	18220WC10100901	Test Date:	2021.6.2
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.3°C	Relative Humidity:	55 %
Pressure:	1012 hPa		

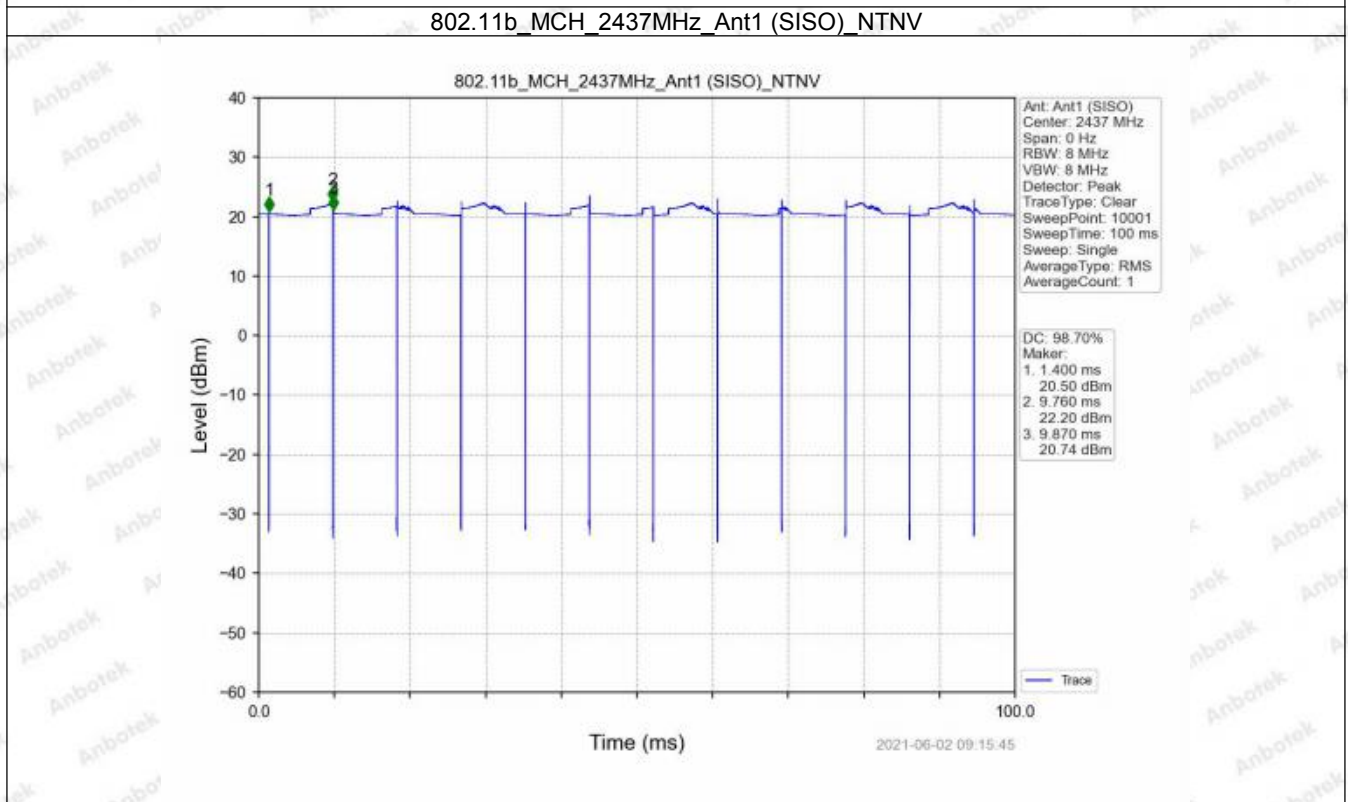
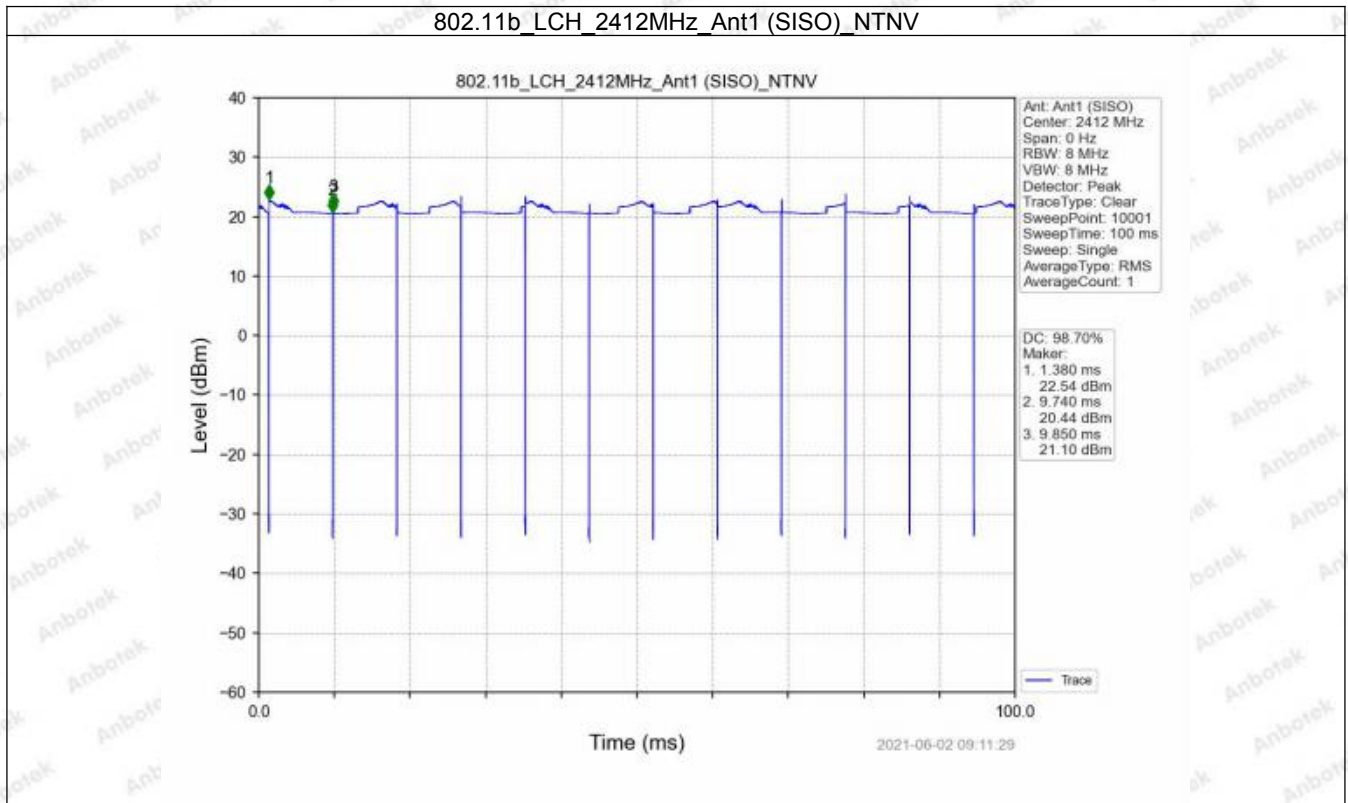
### 1. Duty Cycle

#### 1.1 Ant1

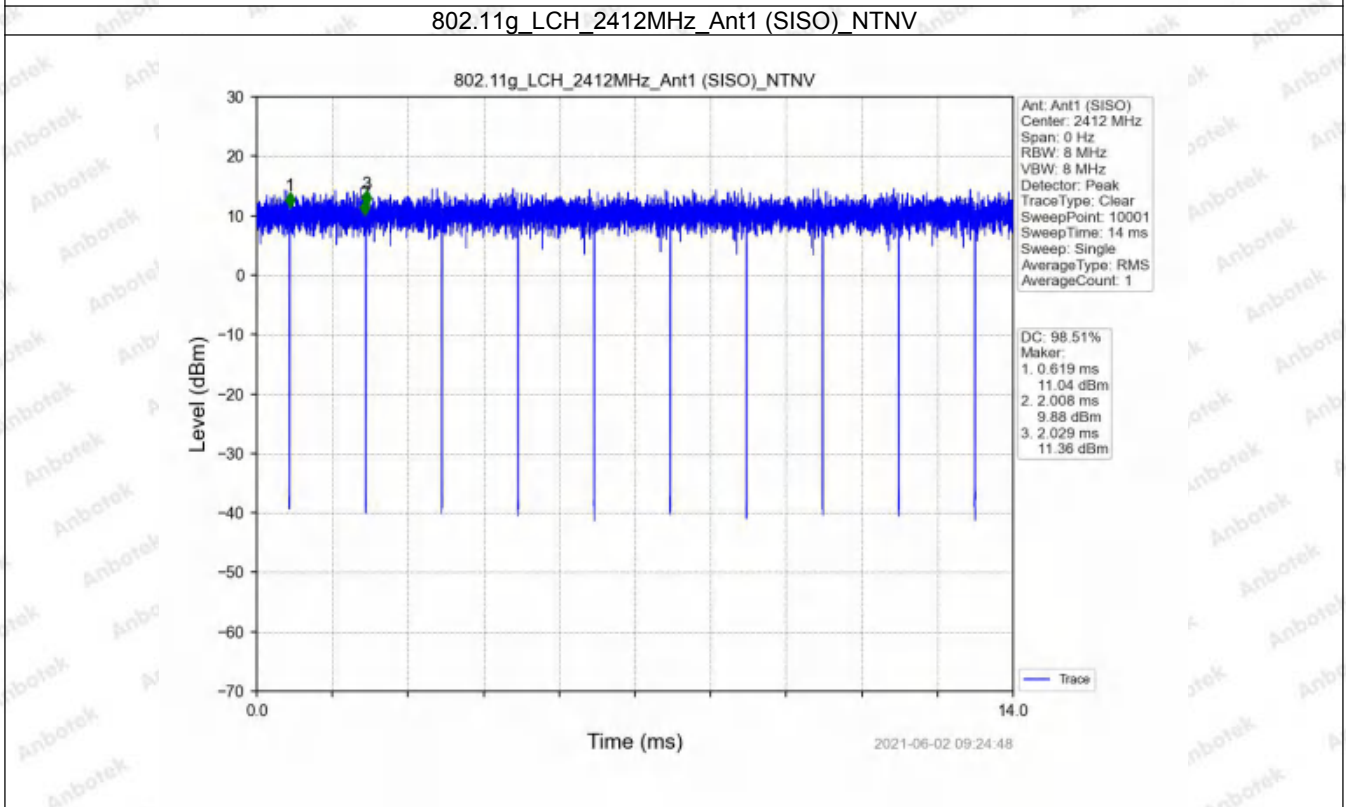
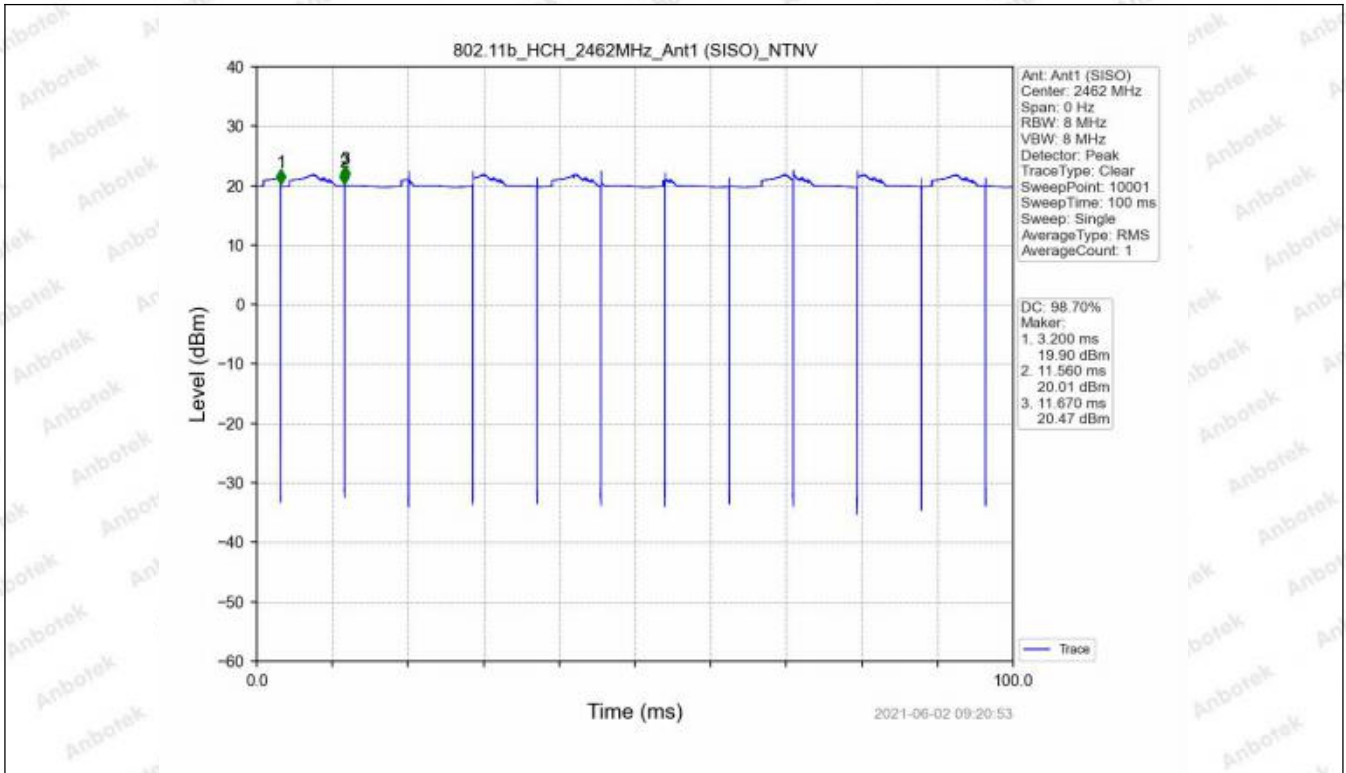
##### 1.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.36	8.47	98.70	0.06	0.00
		2437	/	/	8.36	8.47	98.70	0.06	0.12
		2462	/	/	8.36	8.47	98.70	0.06	0.00
802.11g	SISO	2412	/	/	1.39	1.41	98.51	0.07	0.10
		2437	/	/	1.39	1.41	98.51	0.07	0.11
		2462	/	/	1.39	1.41	98.51	0.07	0.00
802.11n (HT20)	SISO	2412	/	/	1.30	1.32	98.48	0.07	0.10
		2437	/	/	1.30	1.32	98.48	0.07	0.10
		2462	/	/	1.30	1.32	98.48	0.07	0.00
802.11n (HT40)	SISO	2422	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2452	/	/	100.00	100.00	100.00	0.00	0.00

1.1.2 Test Graph

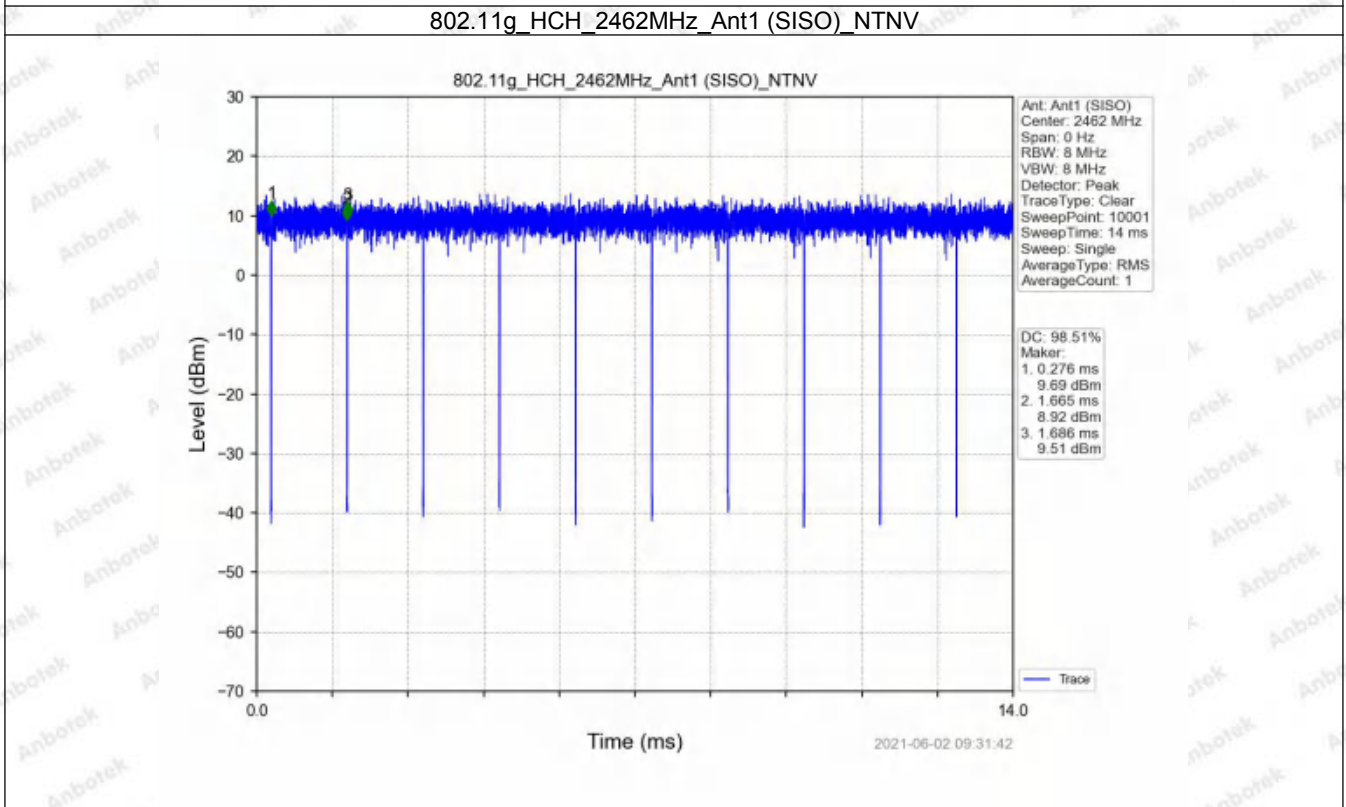
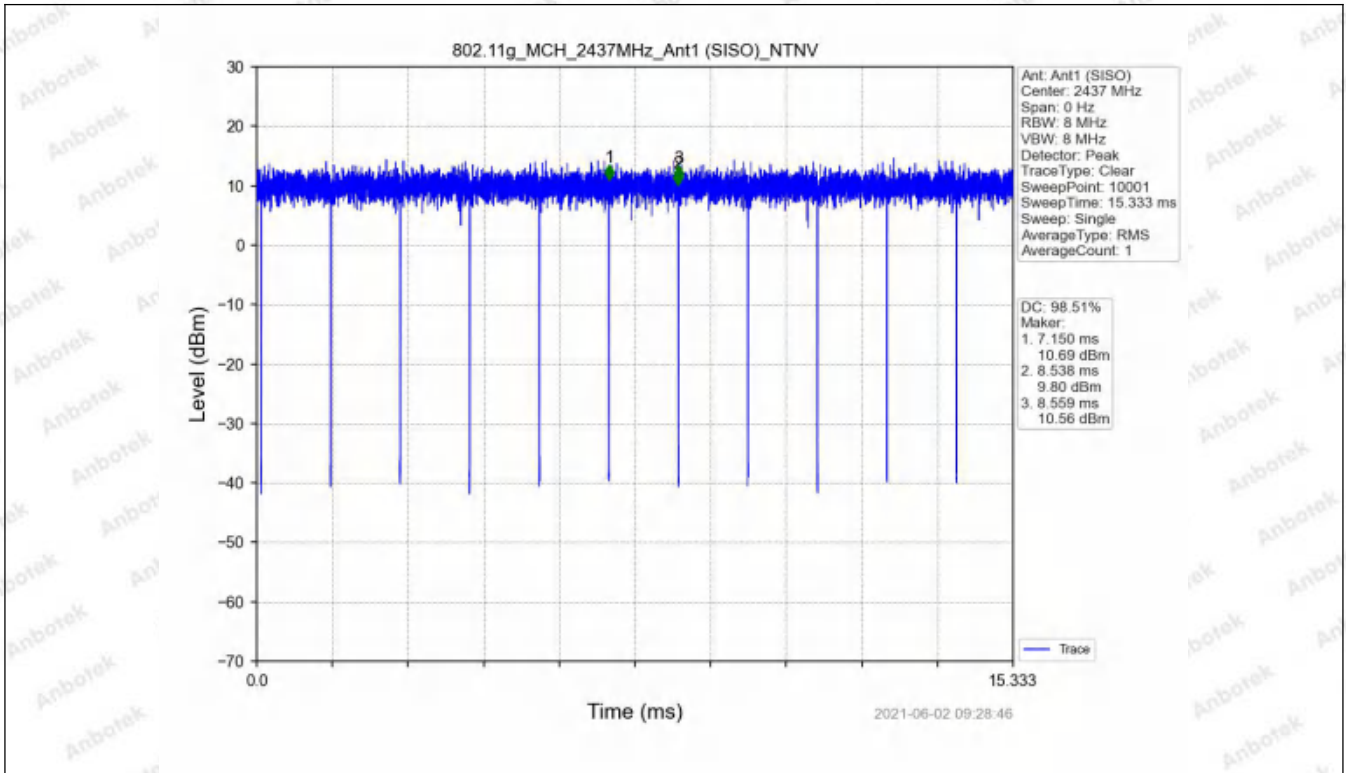


802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

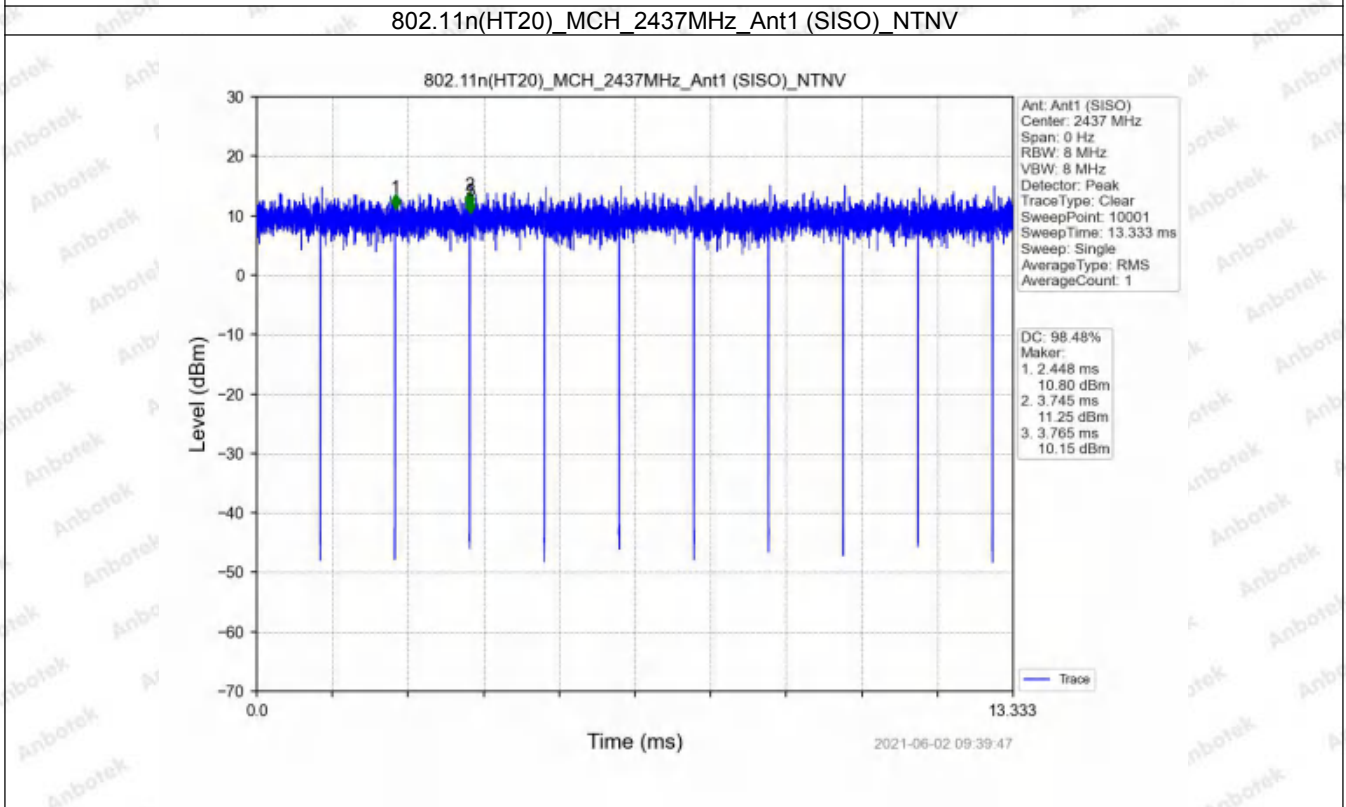
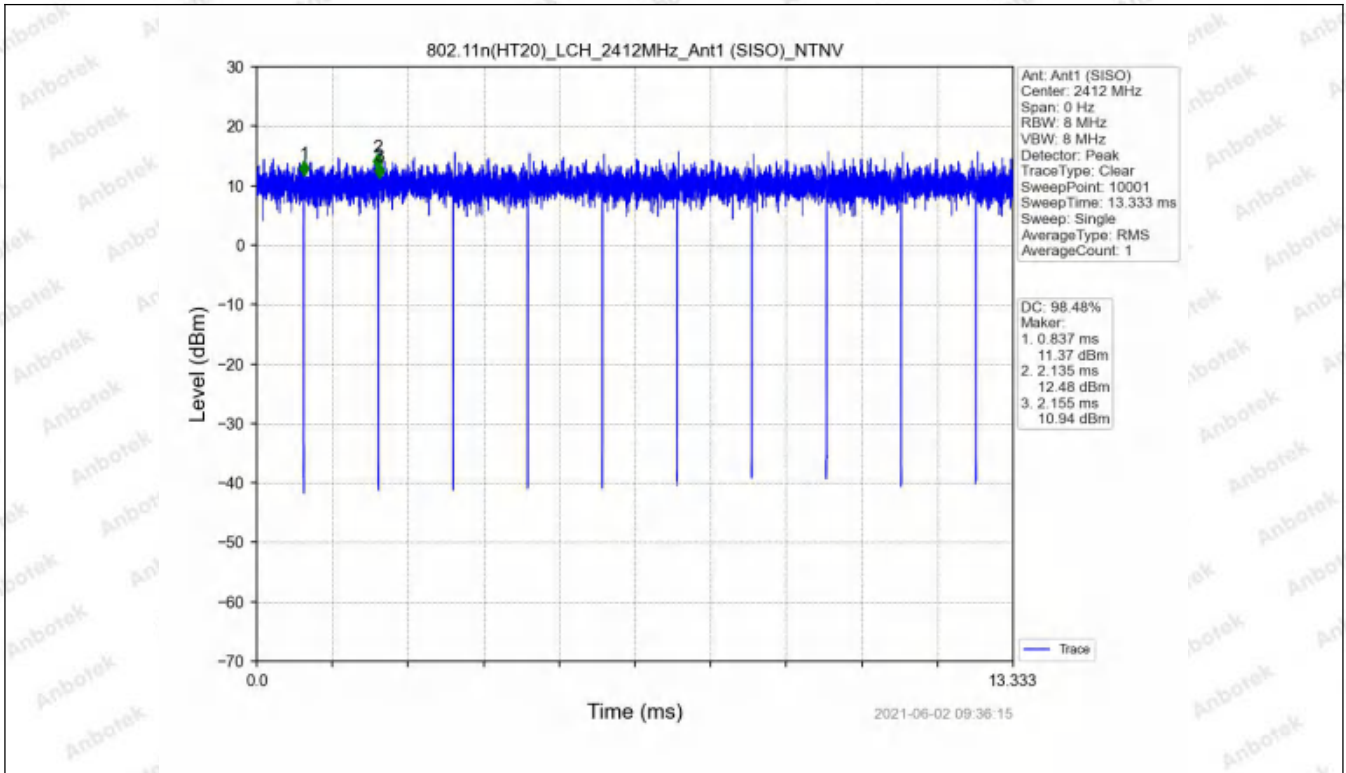


802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

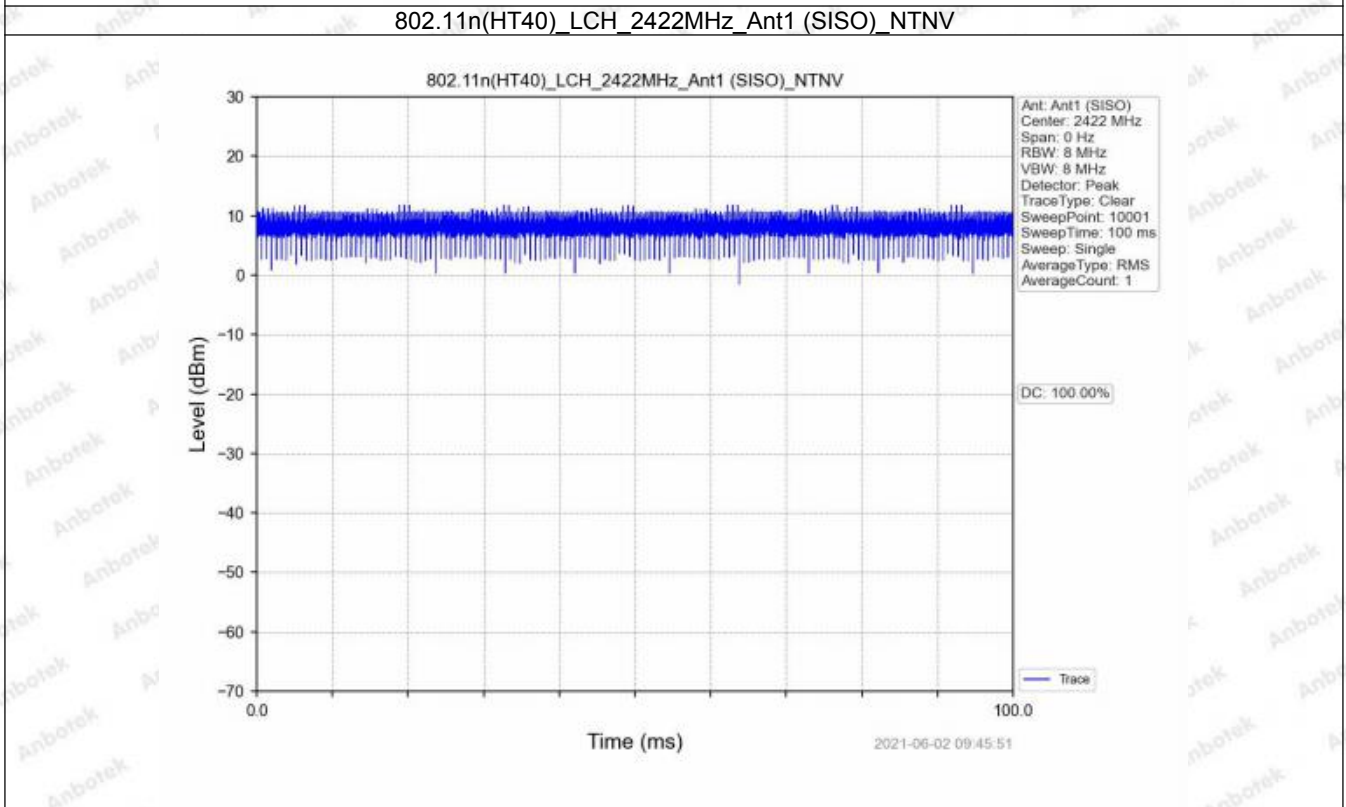
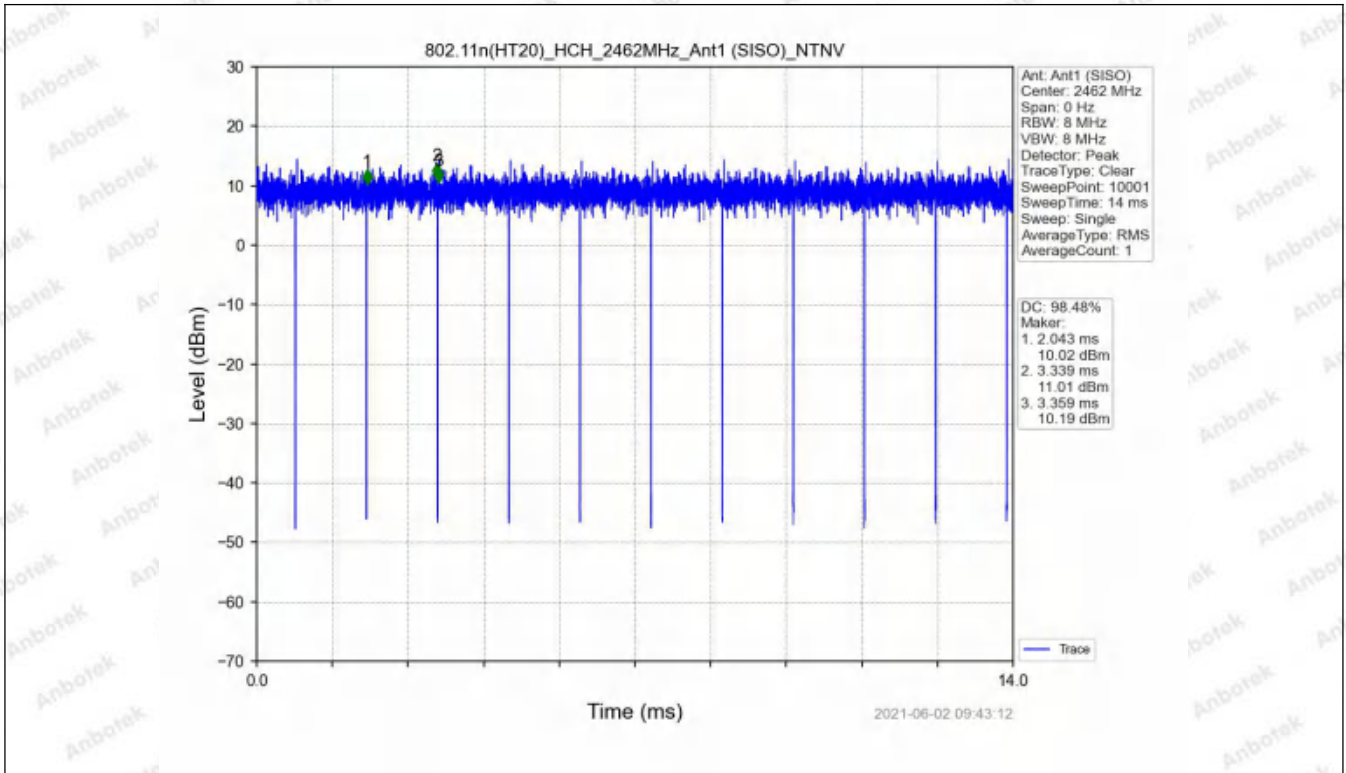




802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

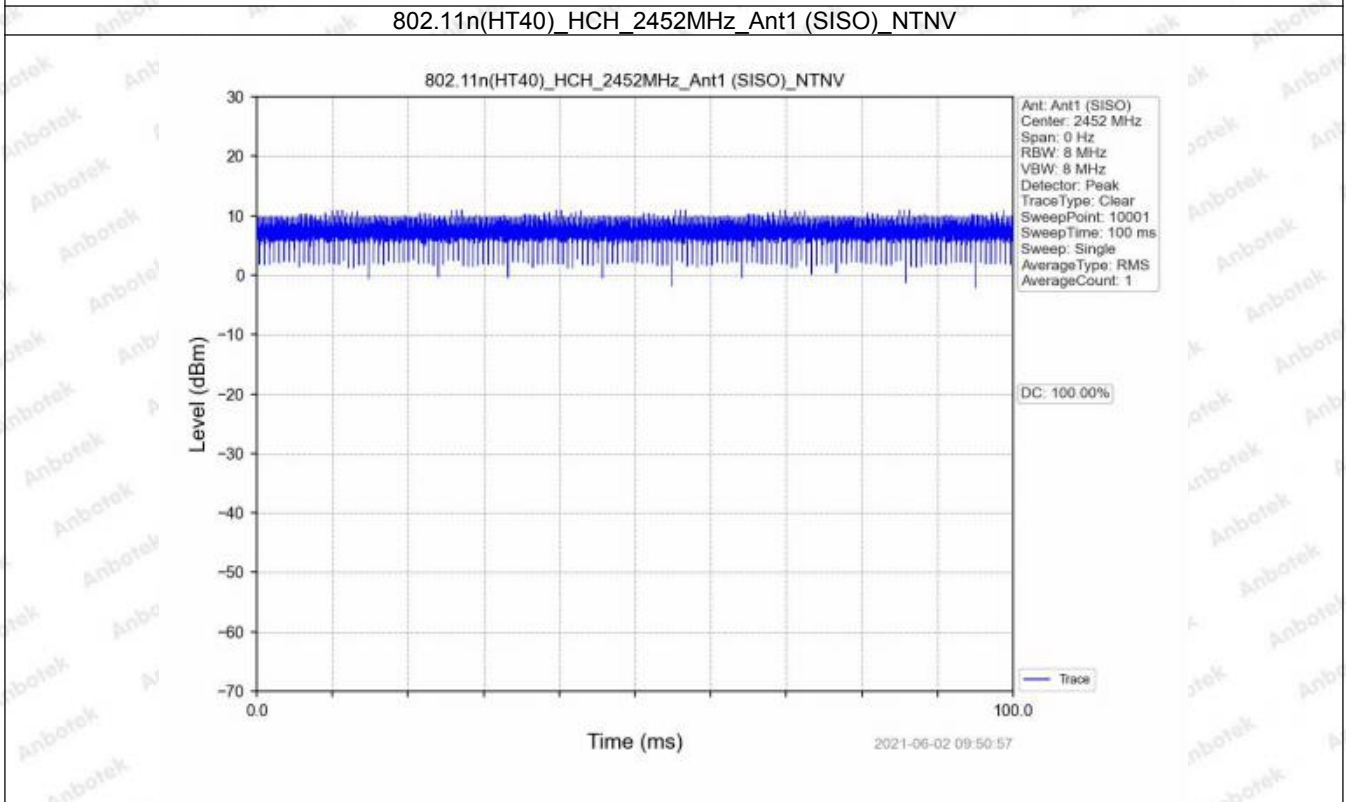
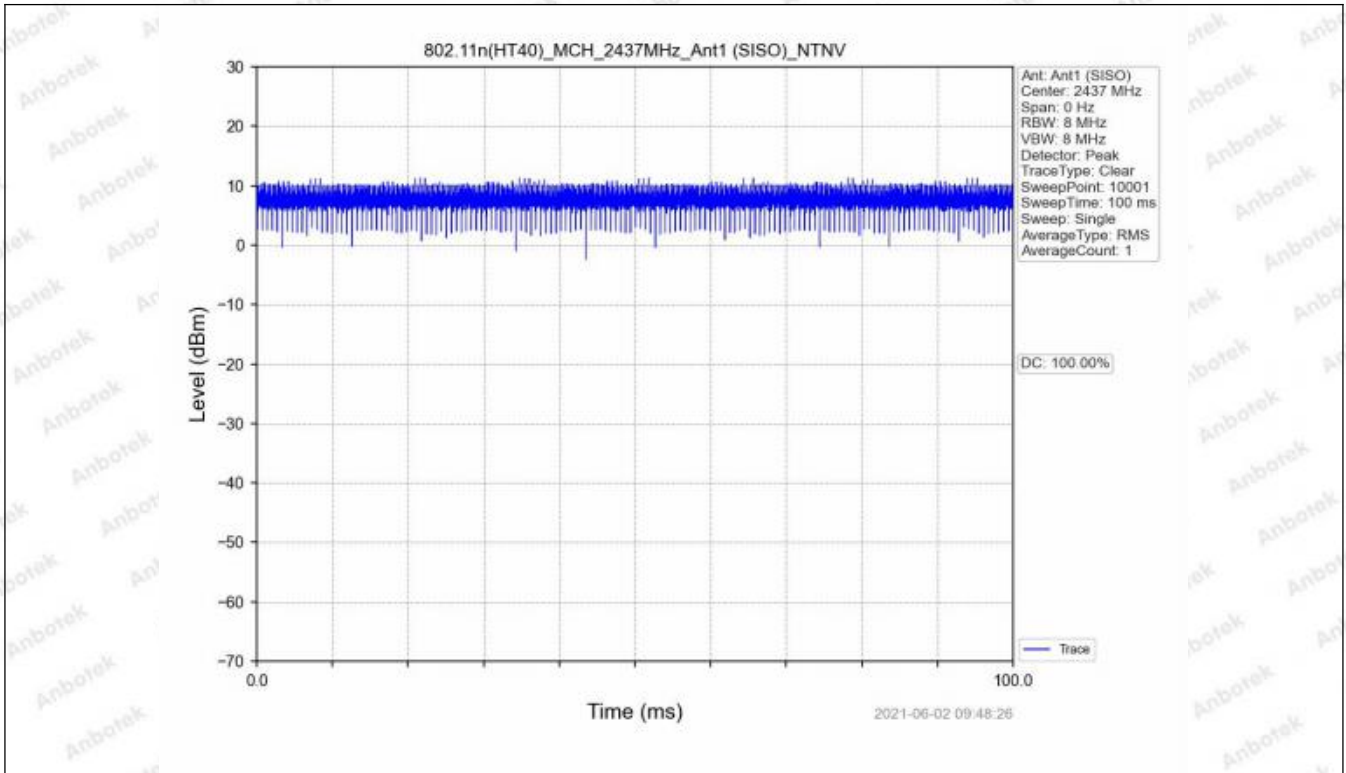


802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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





## 2. Bandwidth

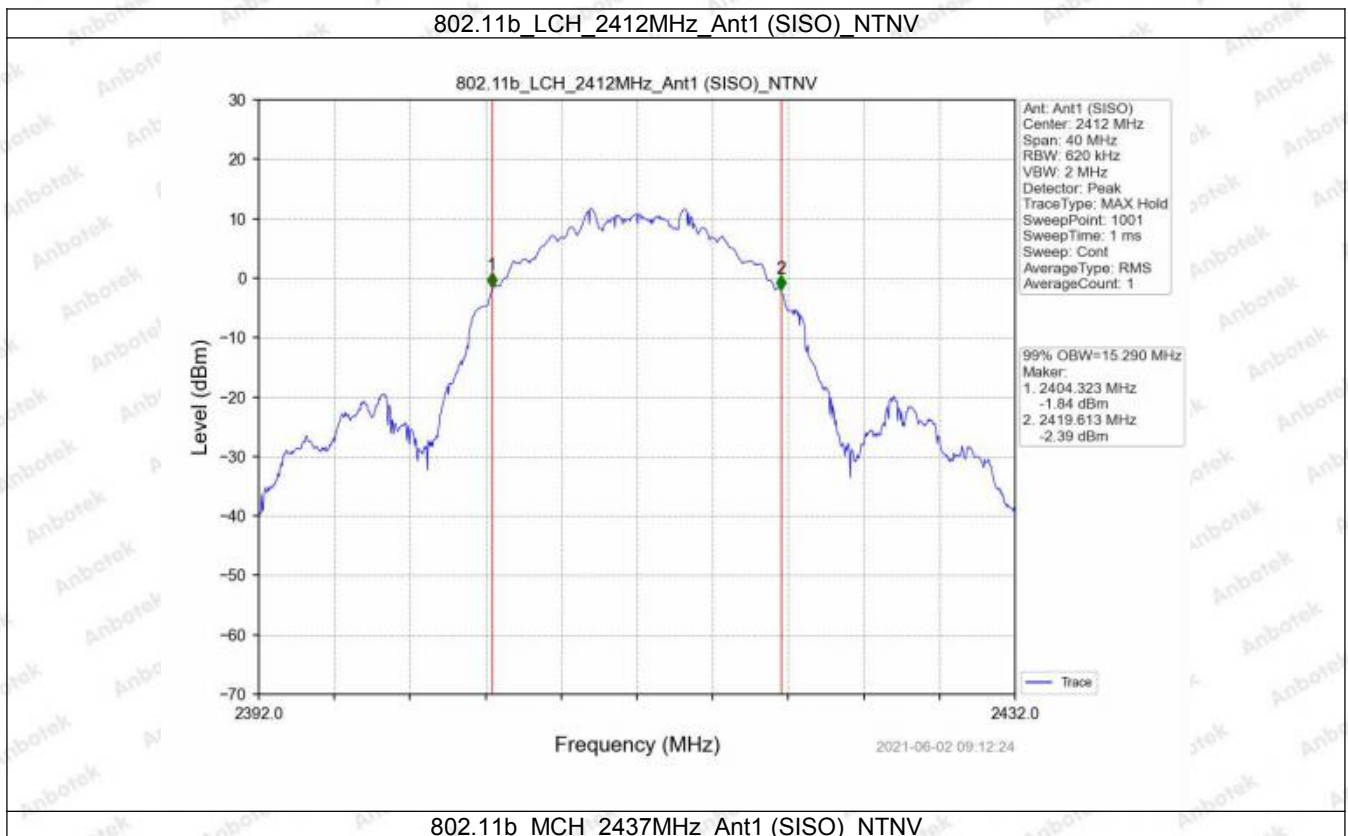
### 2.1 OBW

#### 2.1.1 Test Result

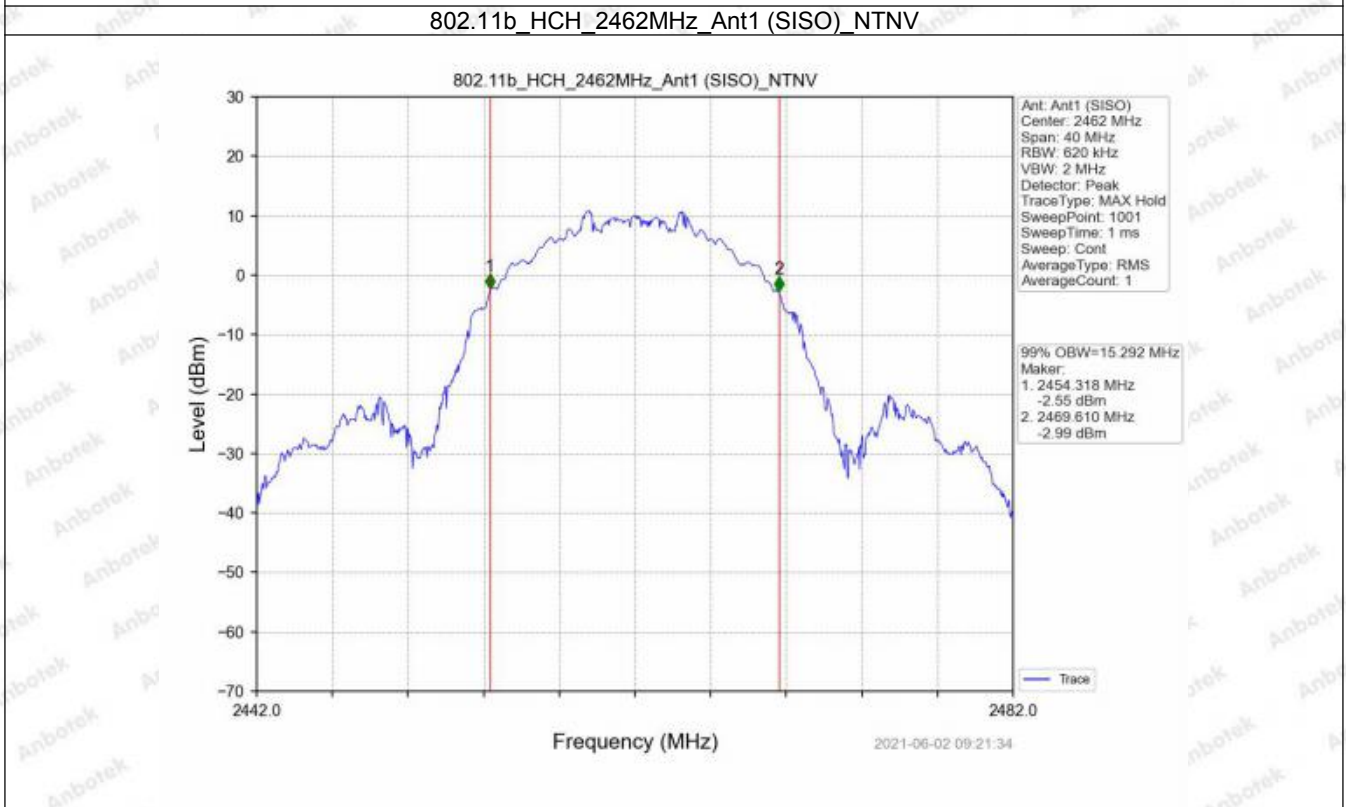
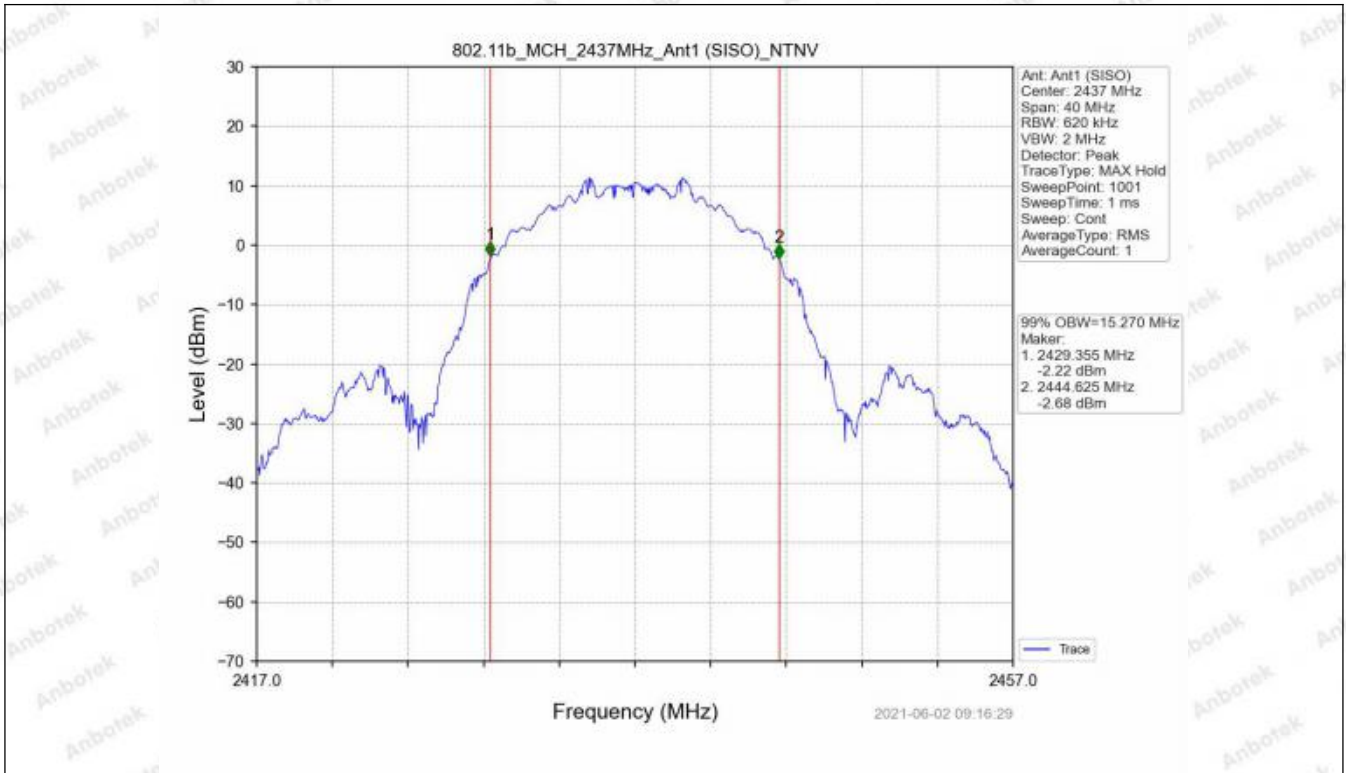
Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	15.290	/	Note1
		2437	/	/	15.270	/	Note1
		2462	/	/	15.292	/	Note1
802.11g	SISO	2412	/	/	17.549	/	Note1
		2437	/	/	17.548	/	Note1
		2462	/	/	17.543	/	Note1
802.11n (HT20)	SISO	2412	/	/	18.432	/	Note1
		2437	/	/	18.432	/	Note1
		2462	/	/	18.428	/	Note1
802.11n (HT40)	SISO	2422	/	/	35.766	/	Note1
		2437	/	/	35.757	/	Note1
		2452	/	/	35.751	/	Note1

Note1: Only for Report Use

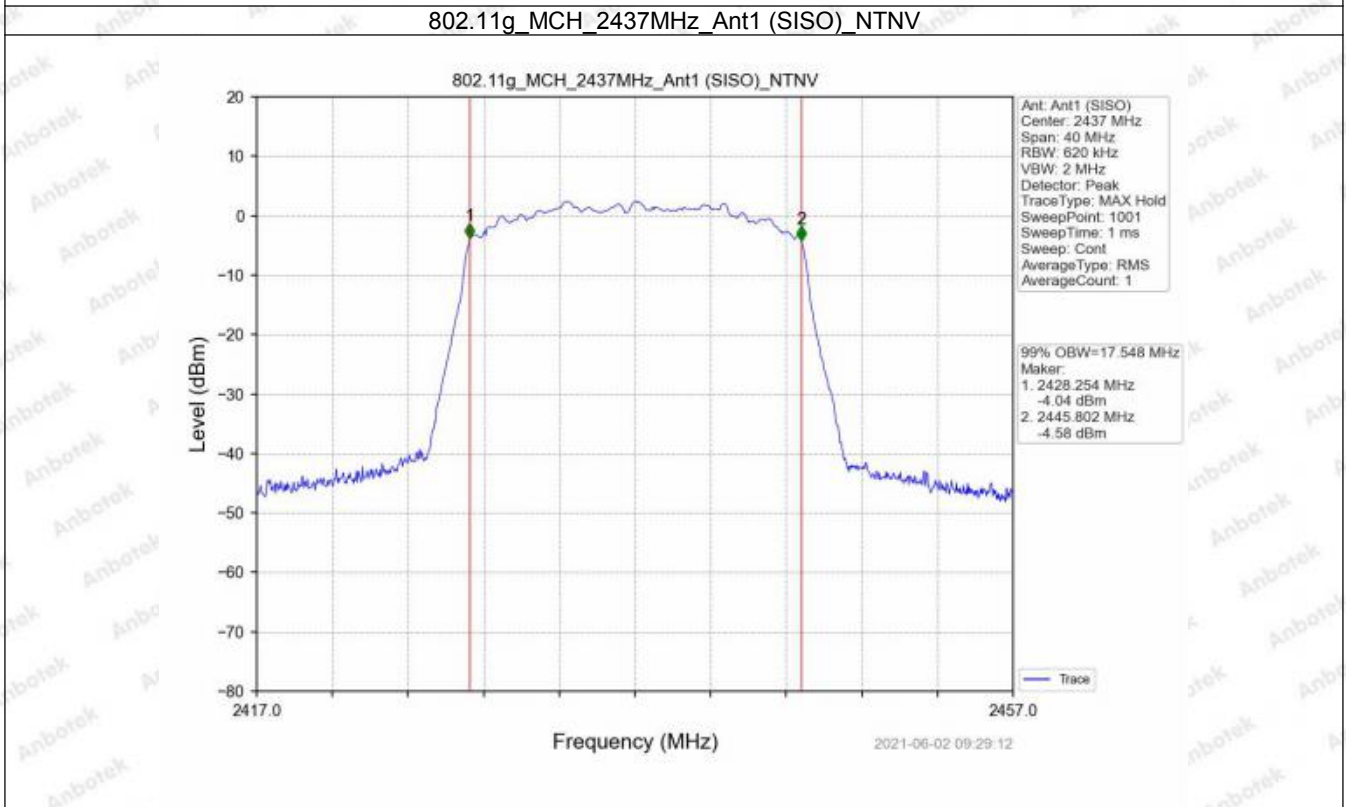
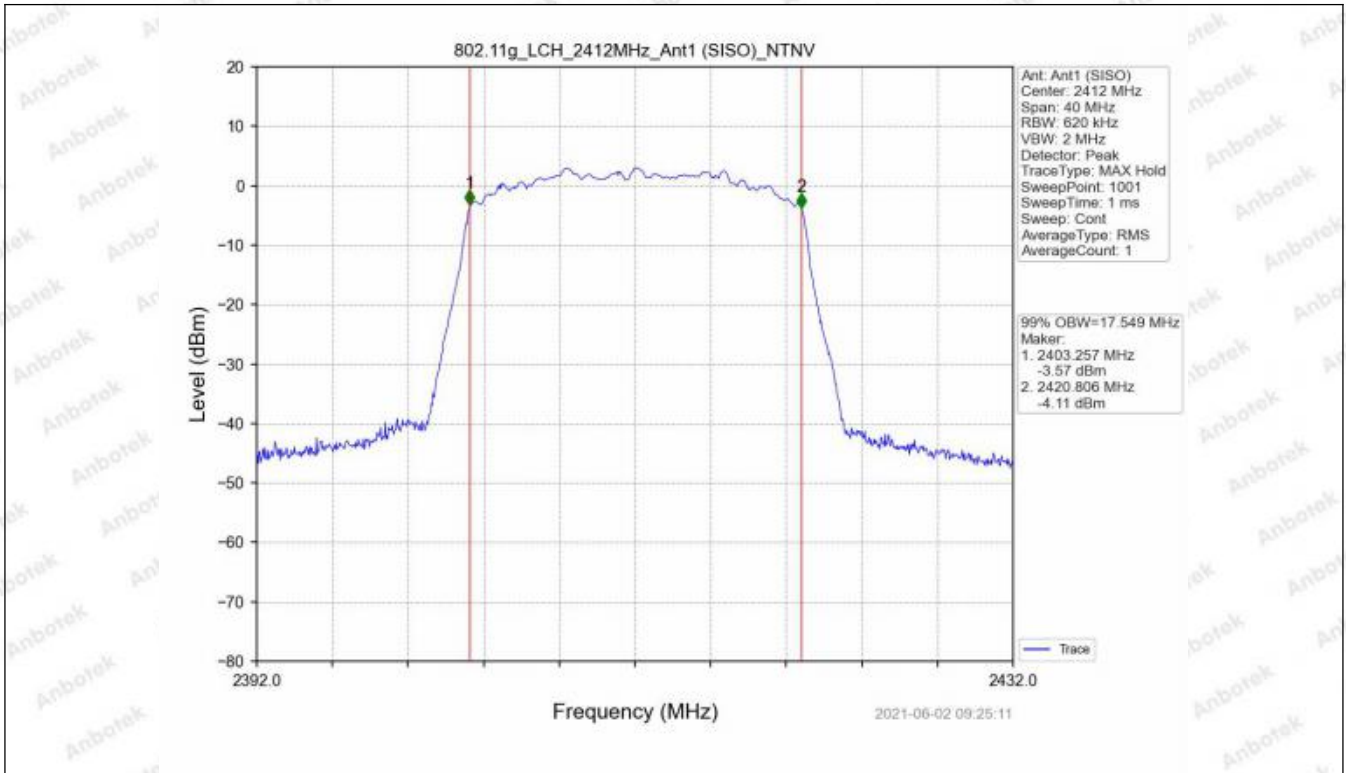
#### 2.1.2 Test Graph



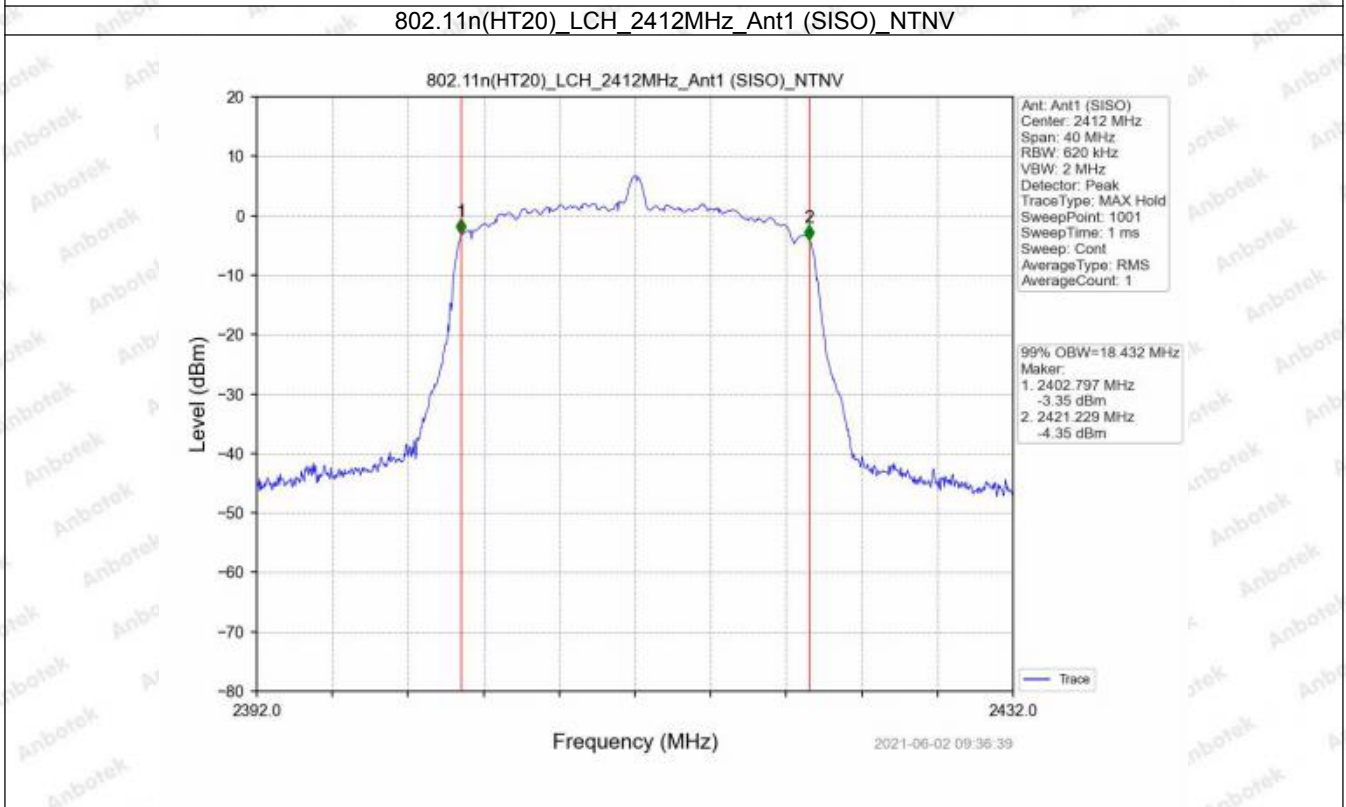
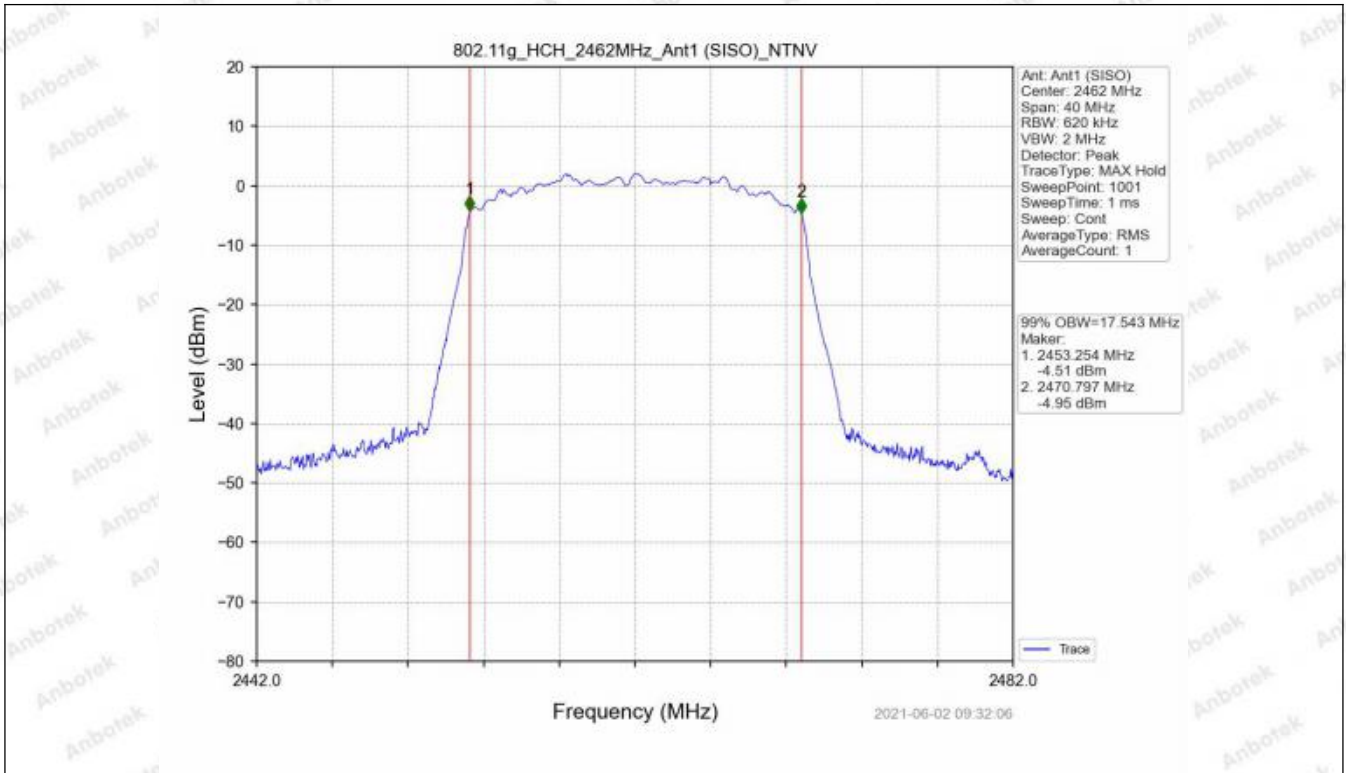




802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

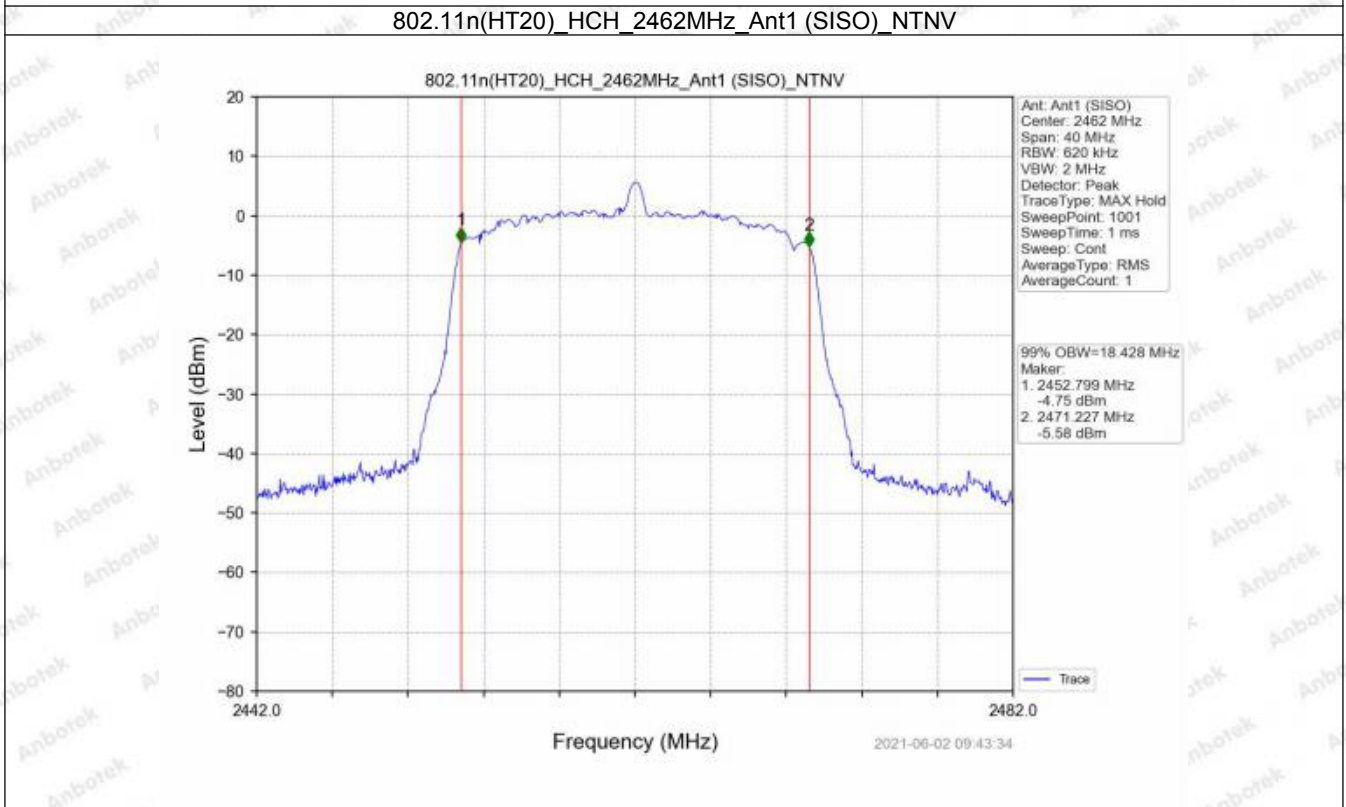
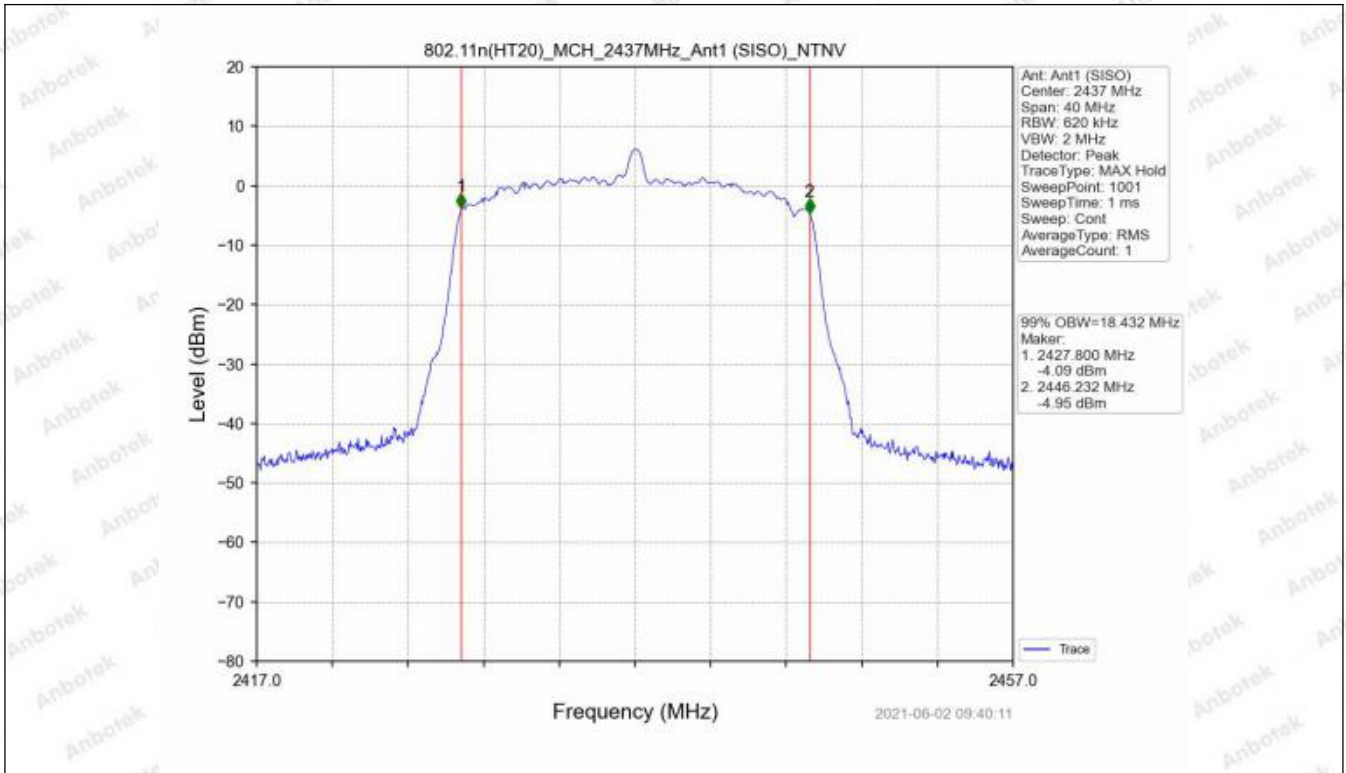


**802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV**

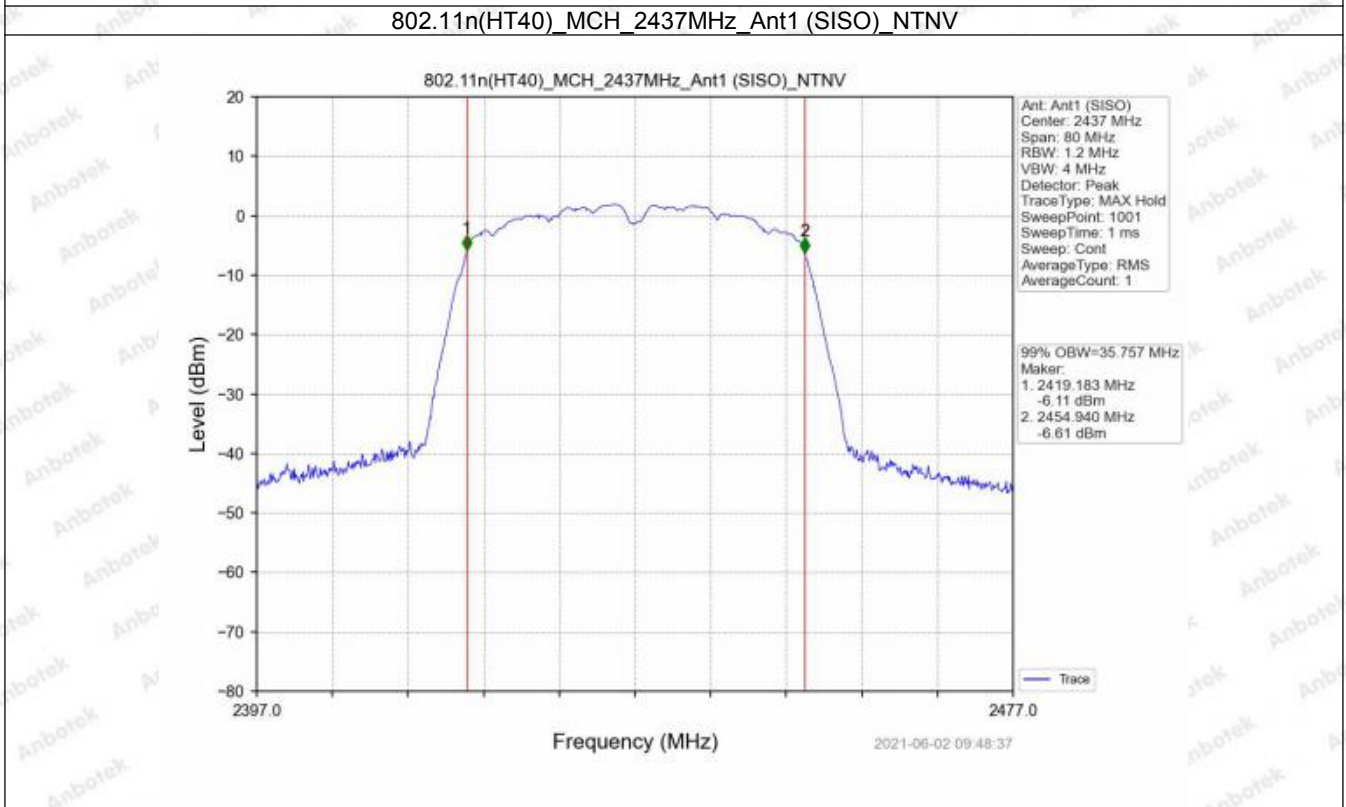
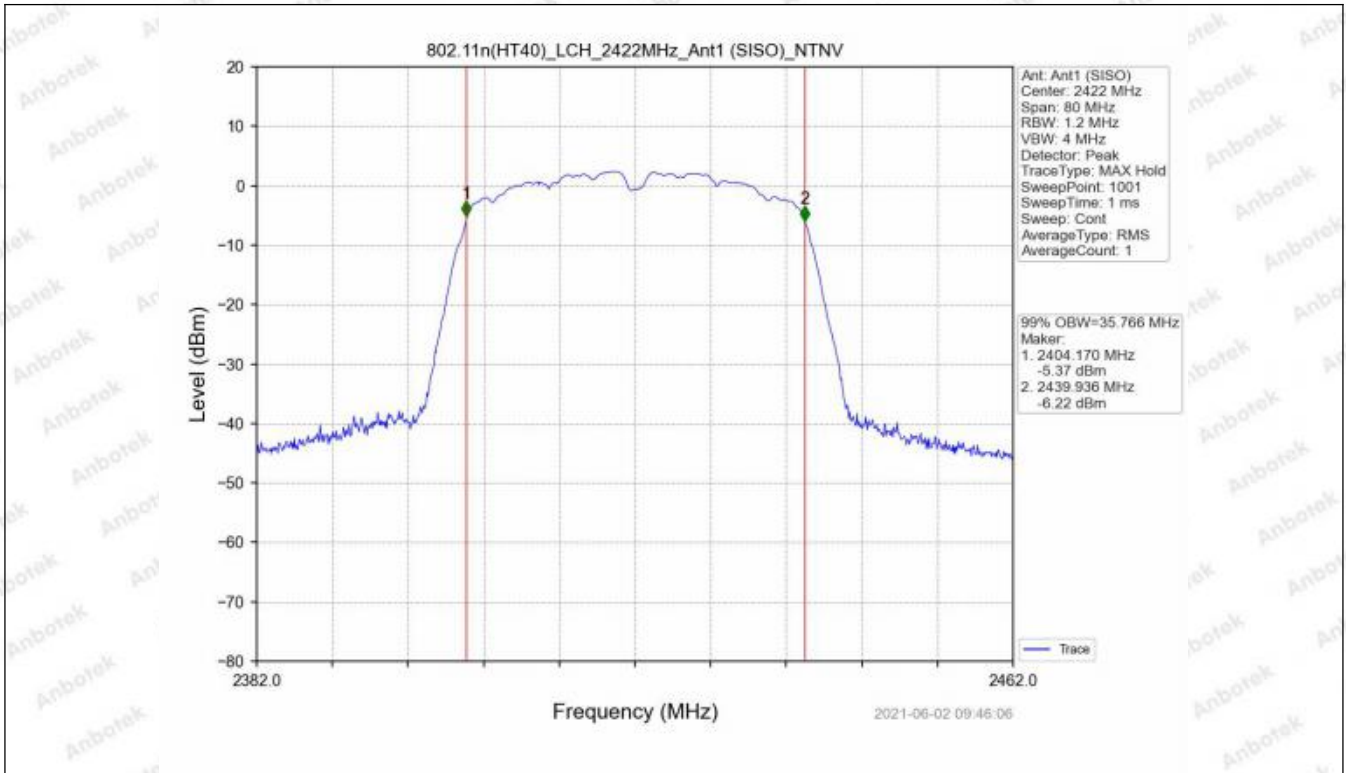


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

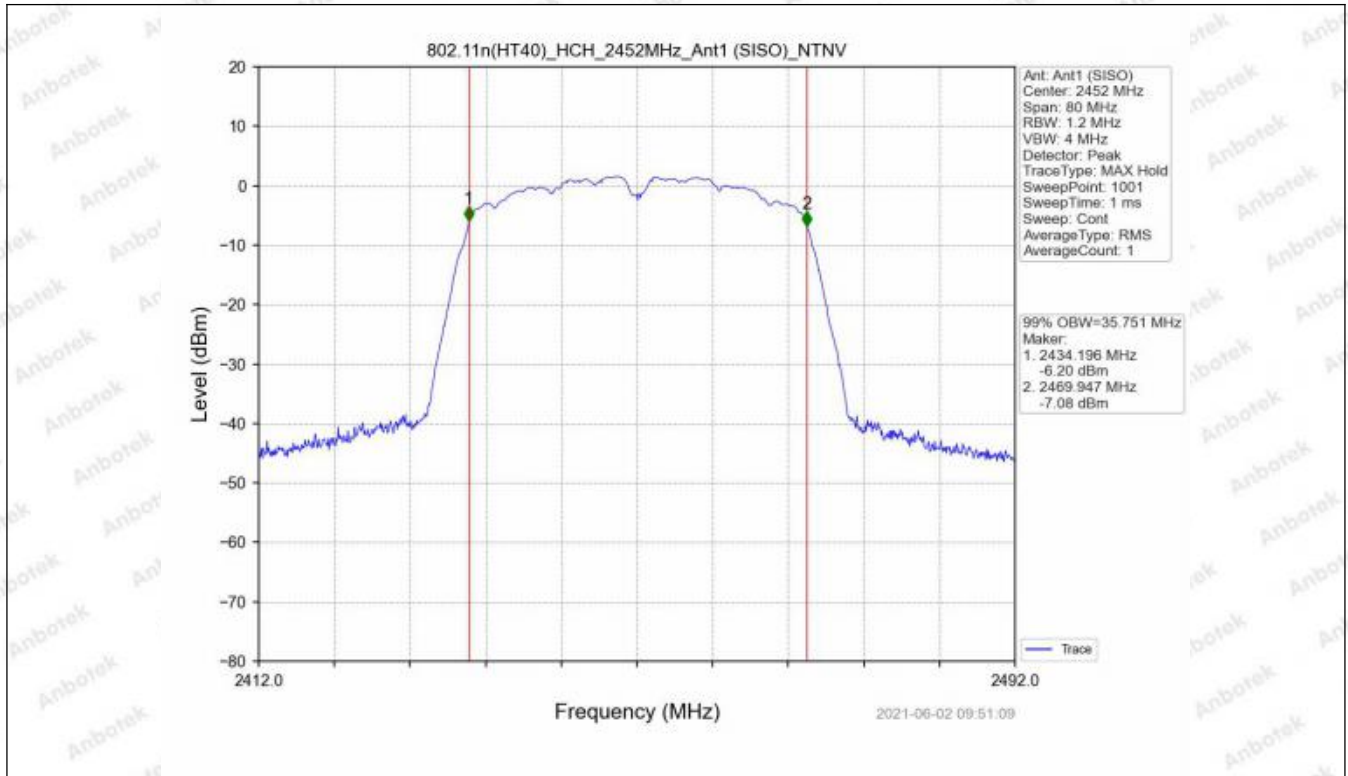




802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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

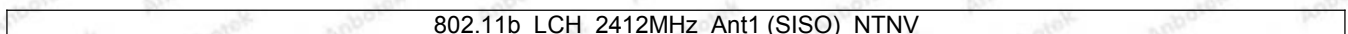


## 2.2 XDB

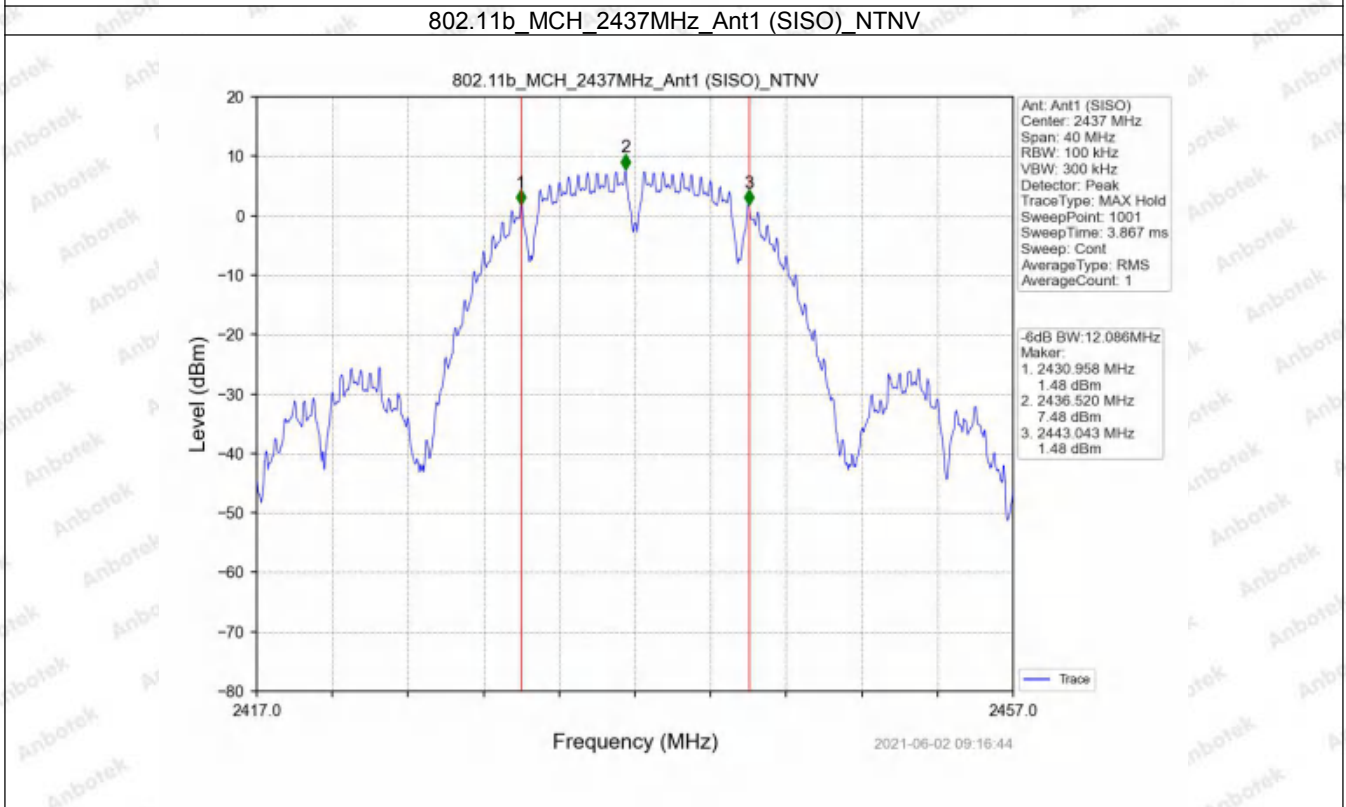
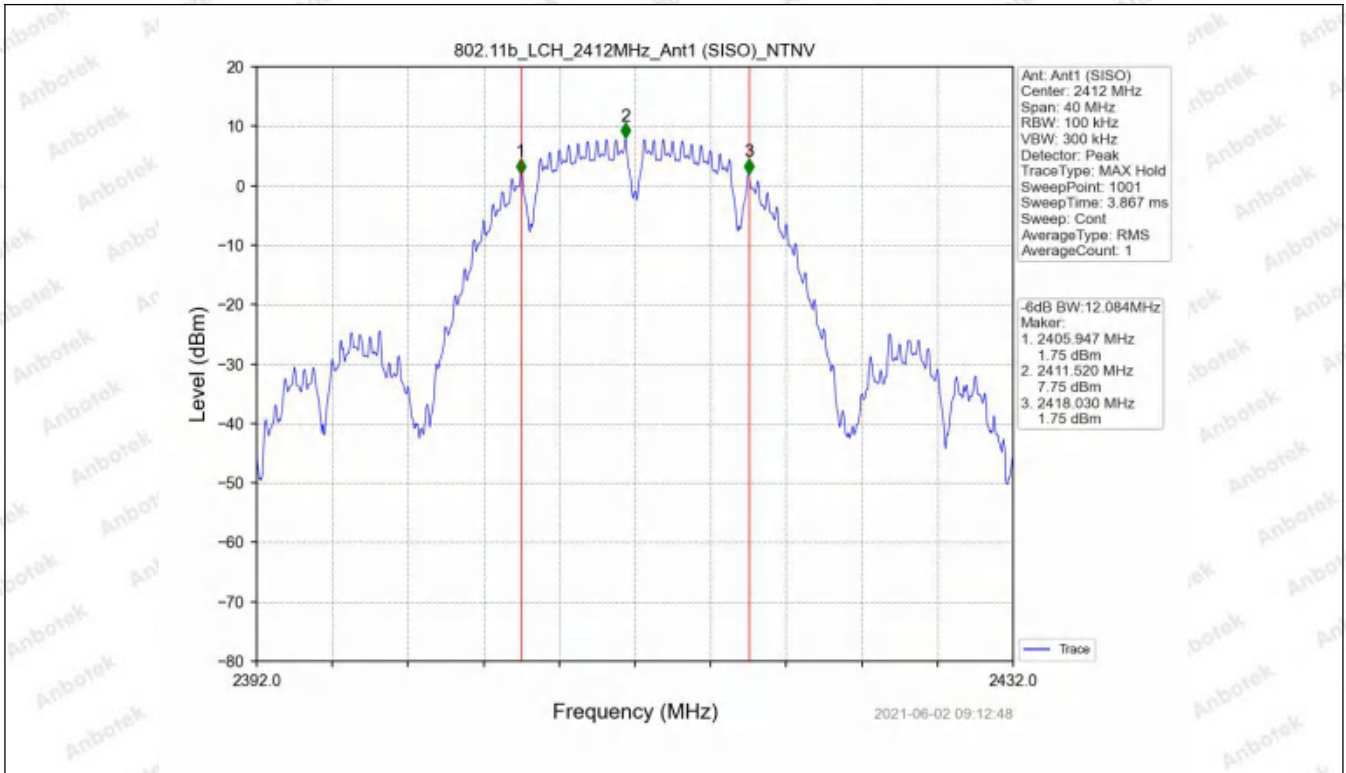
### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)		Limit (MHz)	Verdict
					Ant1			
802.11b	SISO	2412	/	/	12.084		>=0.5	Pass
		2437	/	/	12.086		>=0.5	Pass
		2462	/	/	12.092		>=0.5	Pass
802.11g	SISO	2412	/	/	15.179		>=0.5	Pass
		2437	/	/	15.184		>=0.5	Pass
		2462	/	/	15.184		>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	15.076		>=0.5	Pass
		2437	/	/	15.078		>=0.5	Pass
		2462	/	/	15.082		>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	35.111		>=0.5	Pass
		2437	/	/	35.110		>=0.5	Pass
		2452	/	/	35.106		>=0.5	Pass

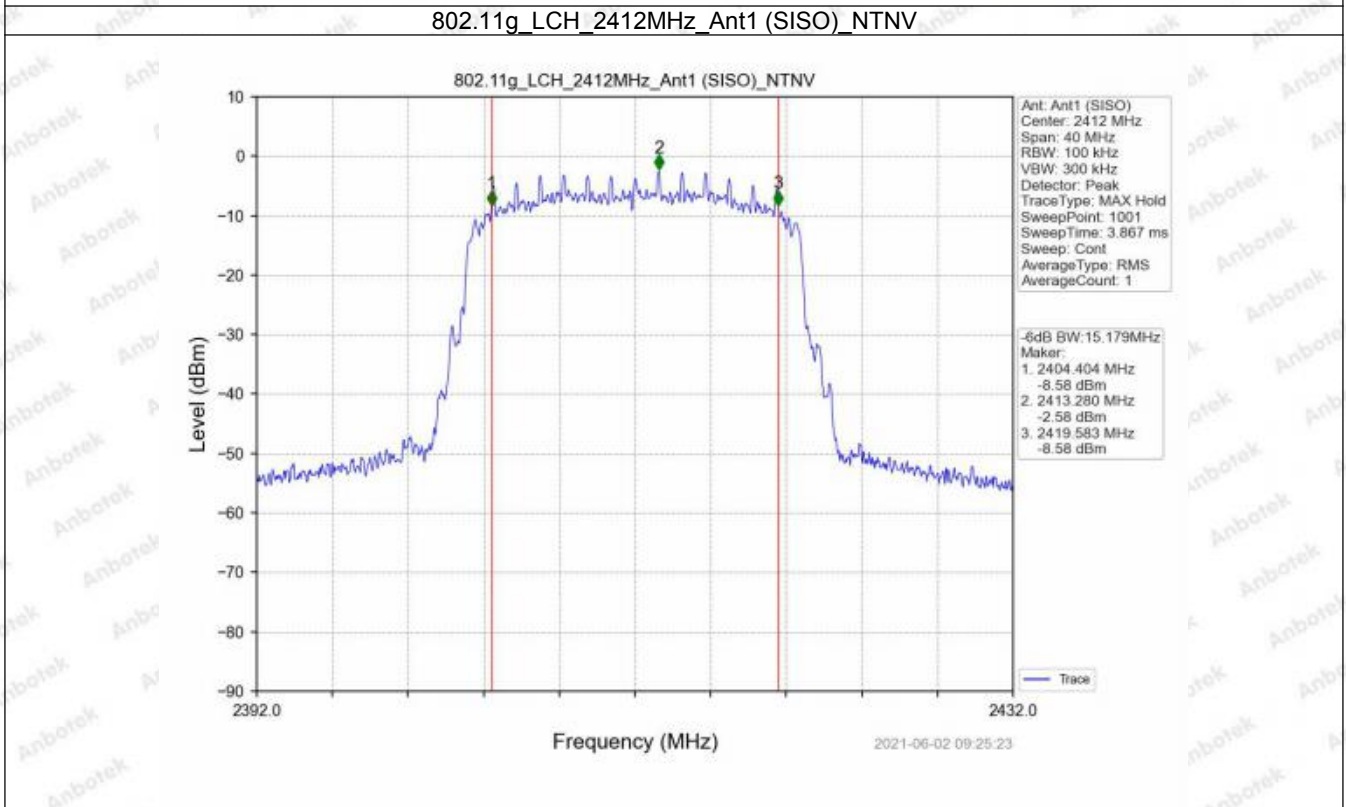
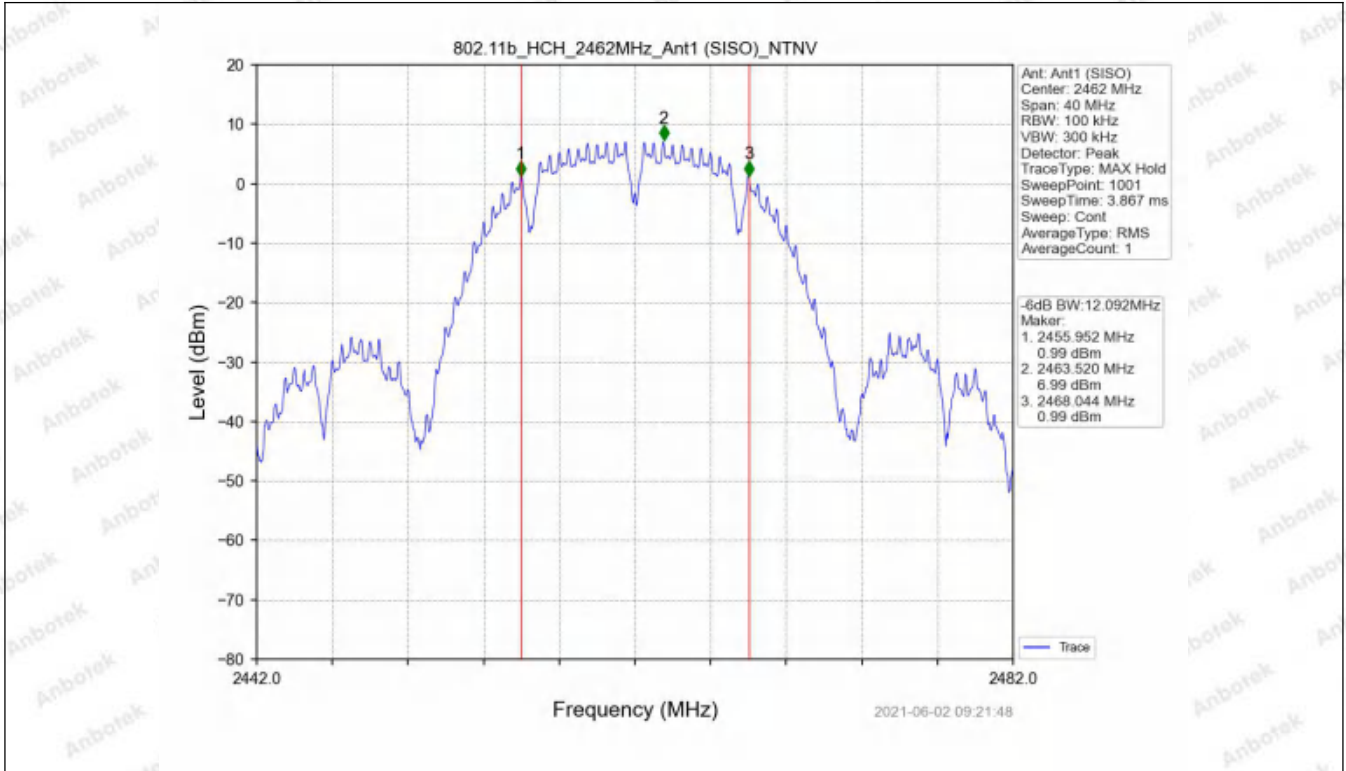
### 2.2.2 Test Graph



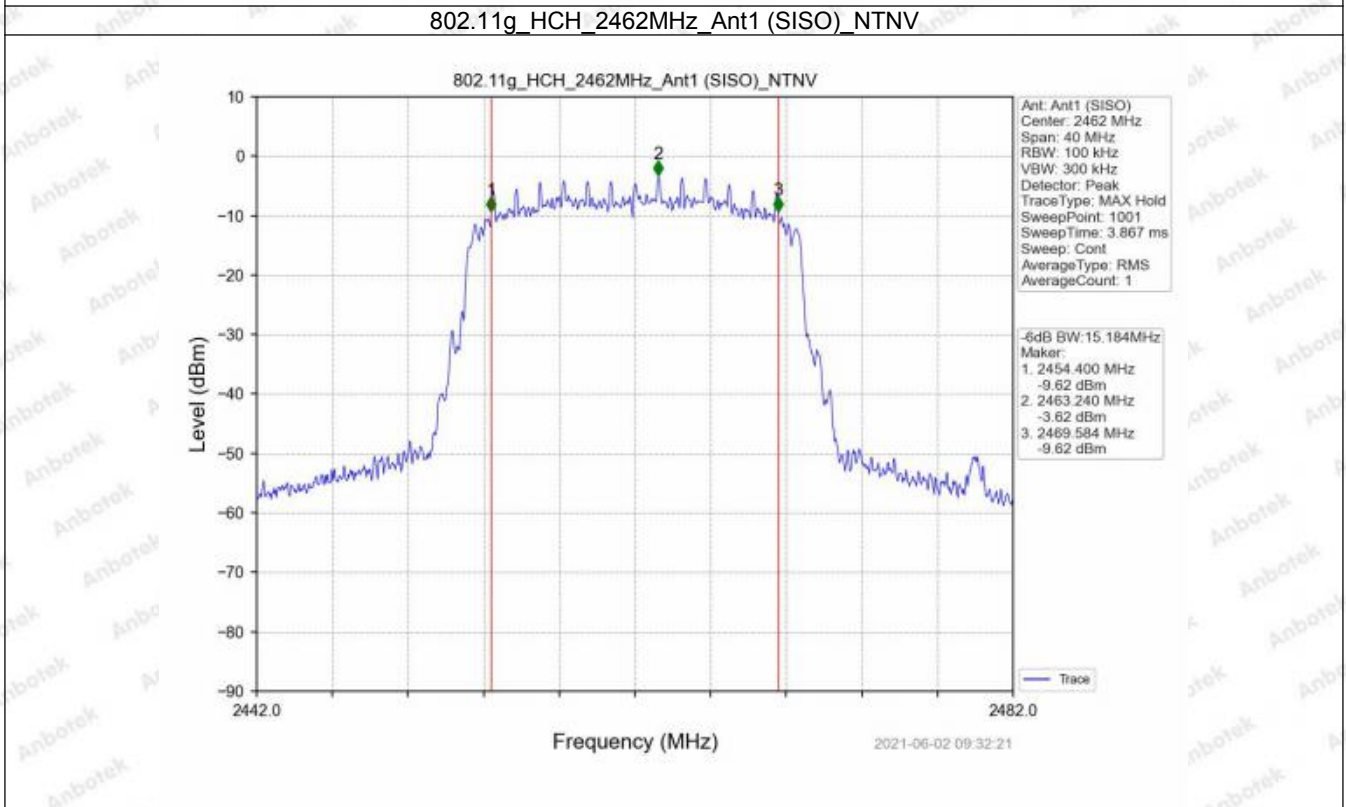
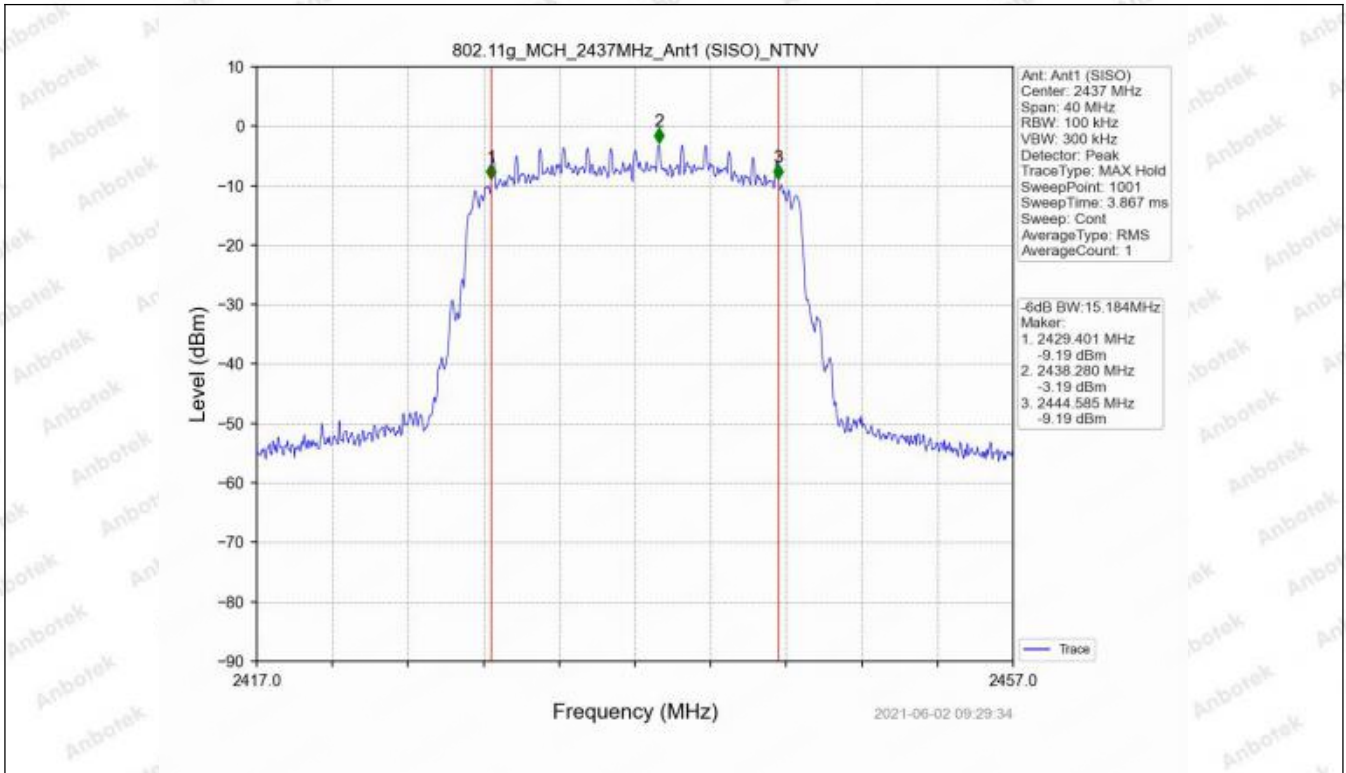




802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

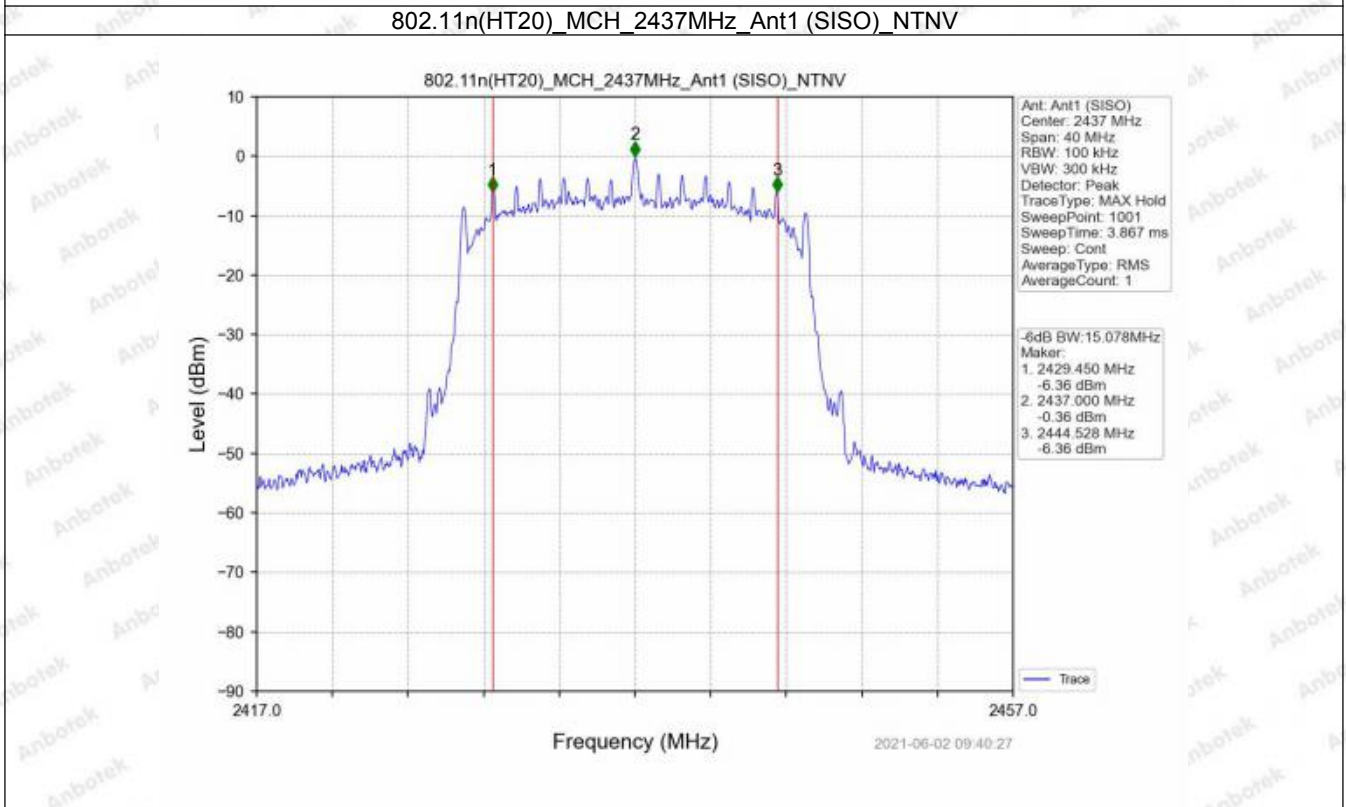
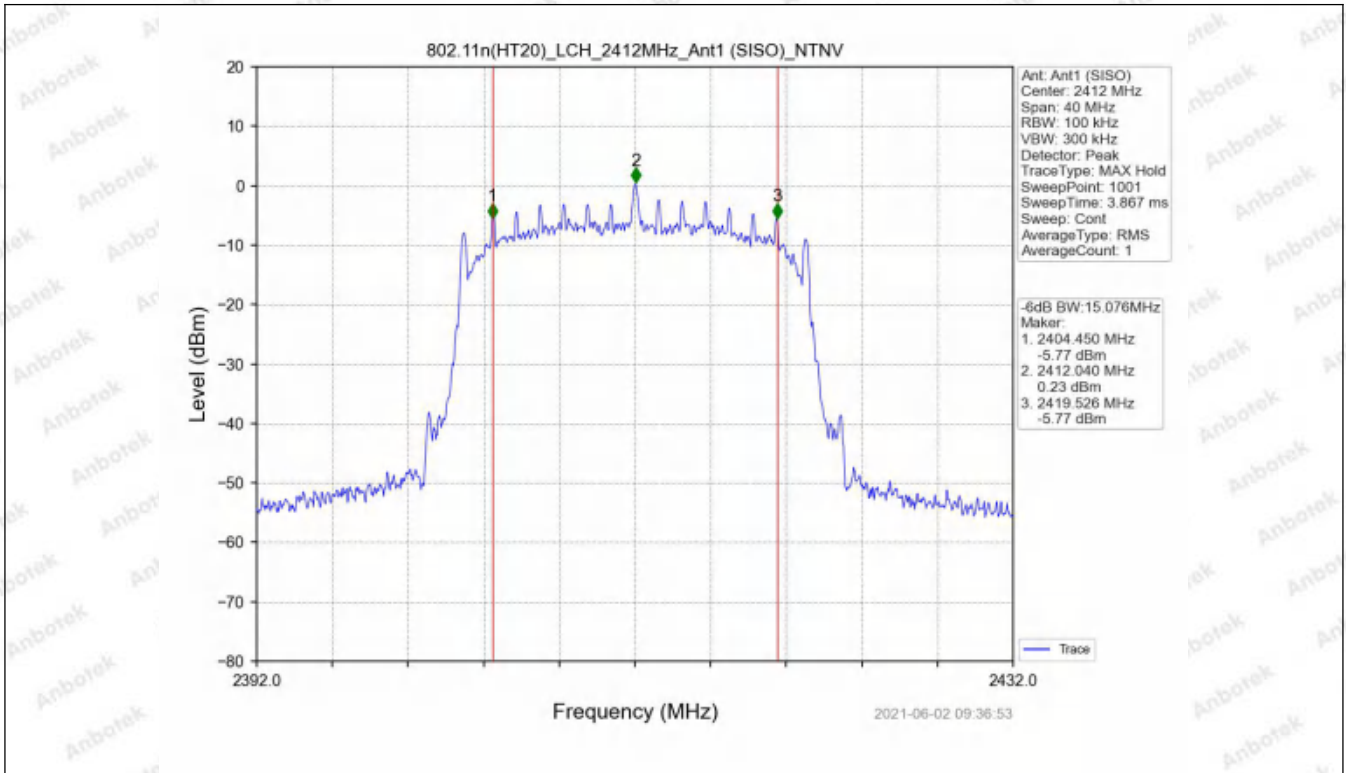


802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

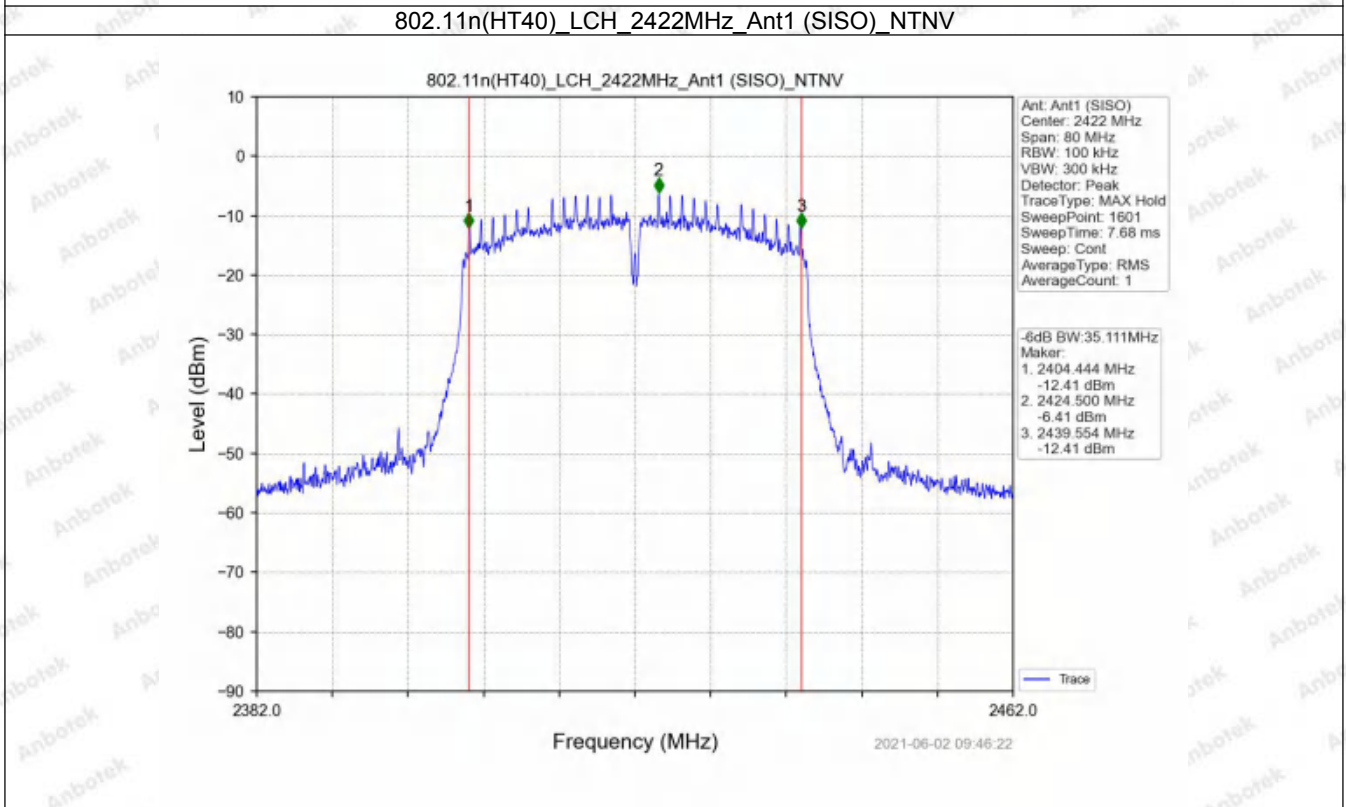
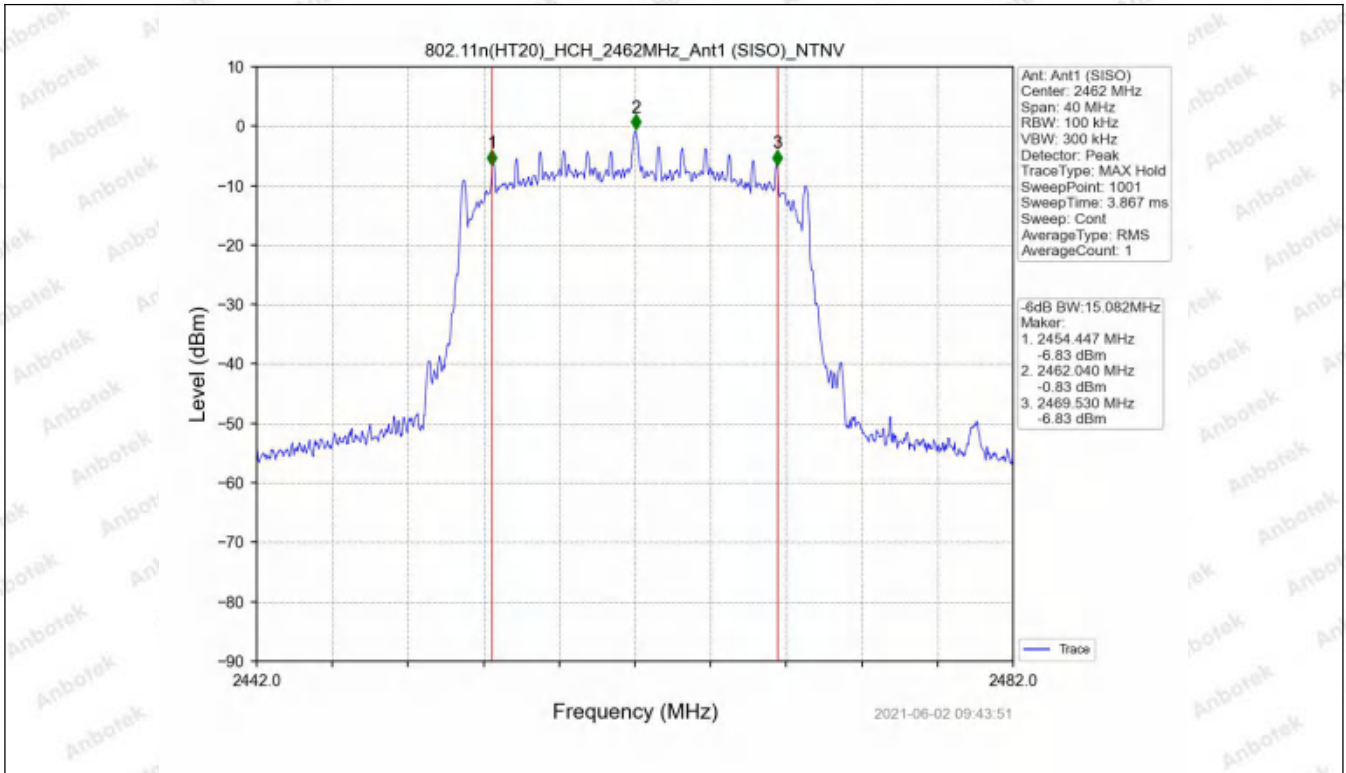


802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

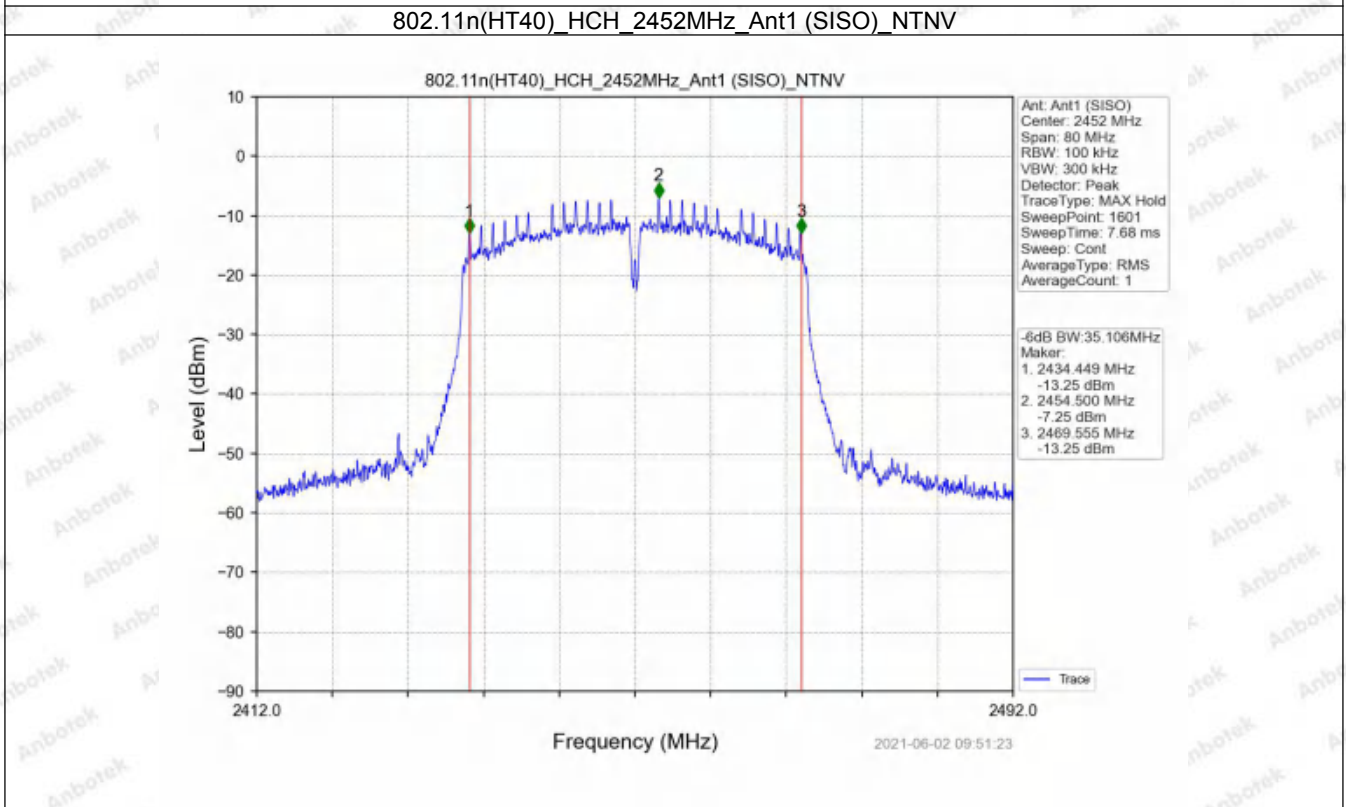
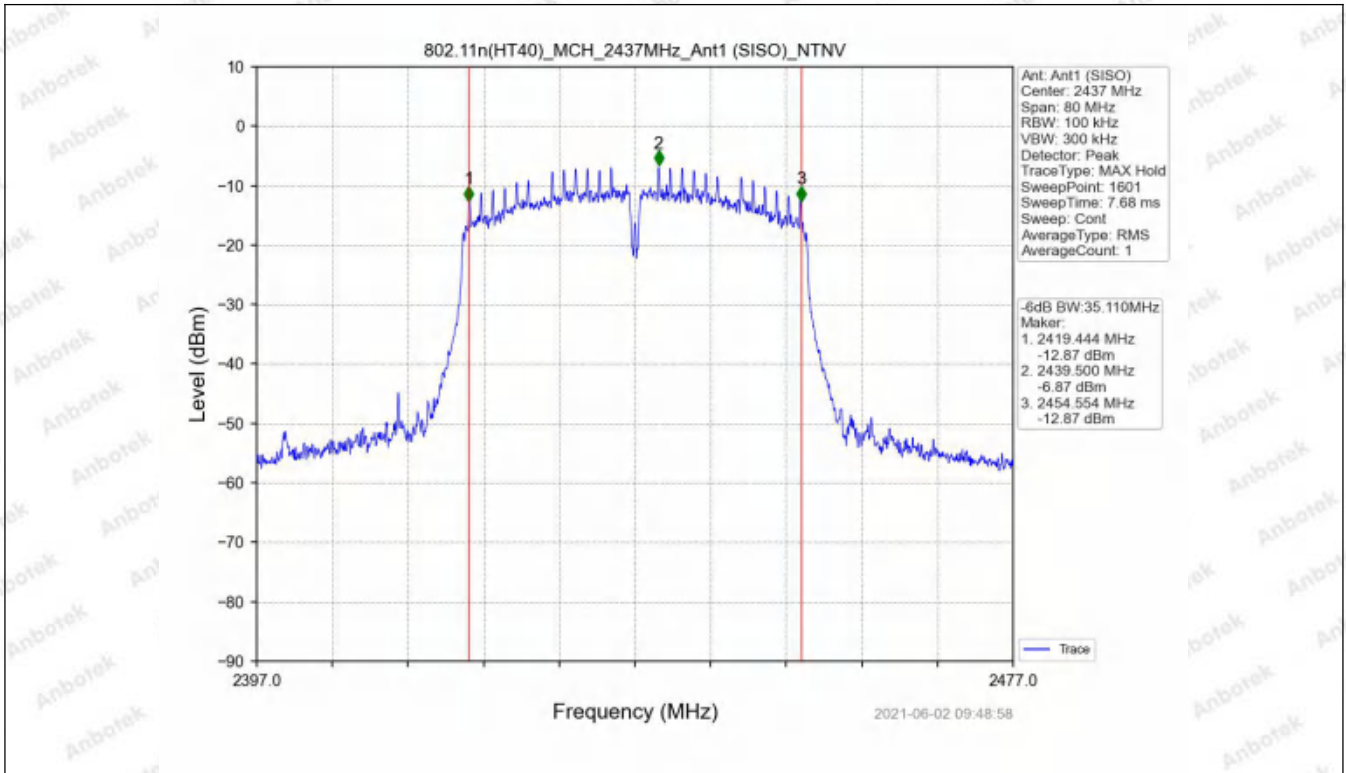




802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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





## 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Measured Peak Output Power (dBm)	Limit (dBm)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	20.99	<=30	Pass
		2437	/	/	20.70	<=30	Pass
		2462	/	/	20.14	<=30	Pass
802.11g	SISO	2412	/	/	15.45	<=30	Pass
		2437	/	/	15.00	<=30	Pass
		2462	/	/	14.51	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	15.53	<=30	Pass
		2437	/	/	15.00	<=30	Pass
		2462	/	/	14.59	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	14.13	<=30	Pass
		2437	/	/	13.71	<=30	Pass
		2452	/	/	13.34	<=30	Pass

Note1: Antenna Gain: 1:0dBi;

## 4. Maximum Power Spectral Density

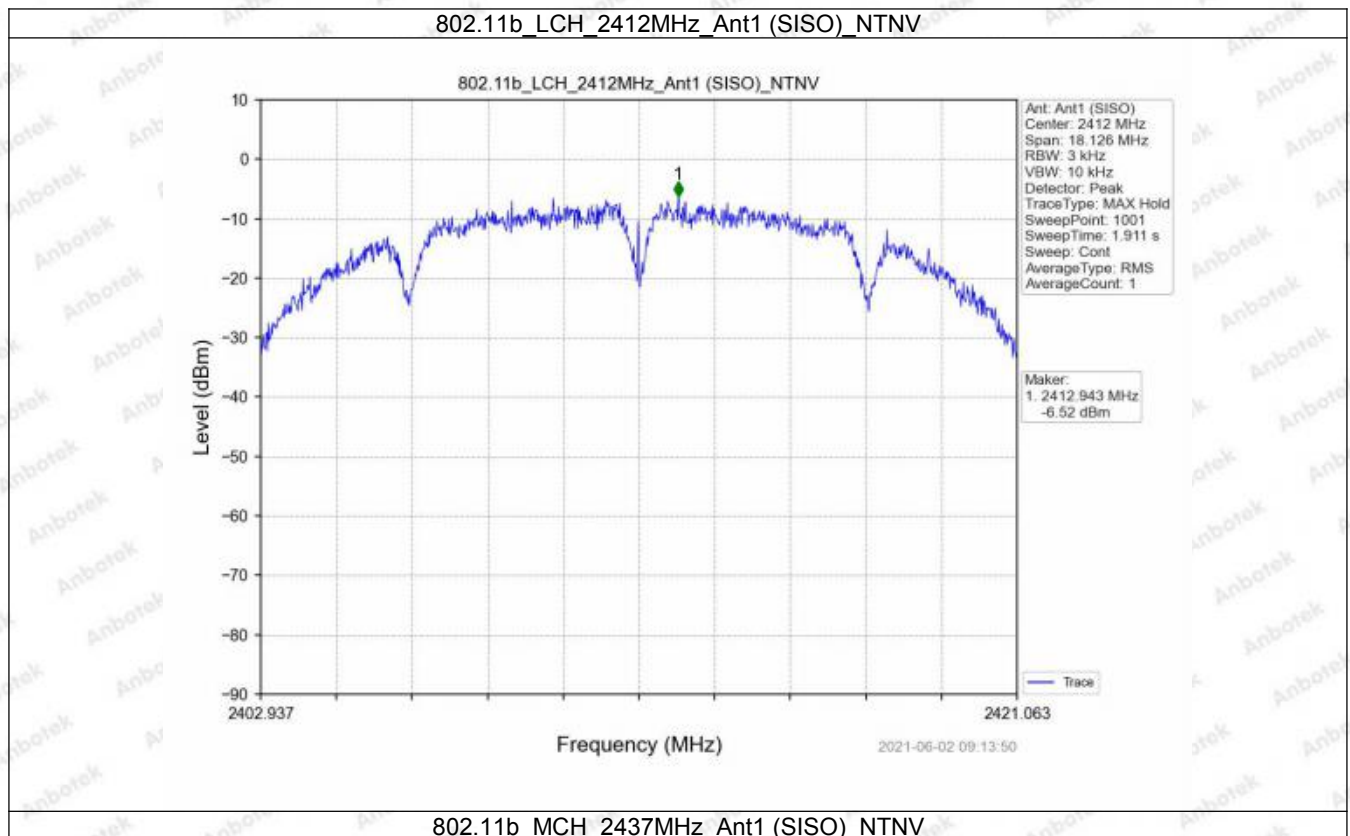
### 4.1 PSD

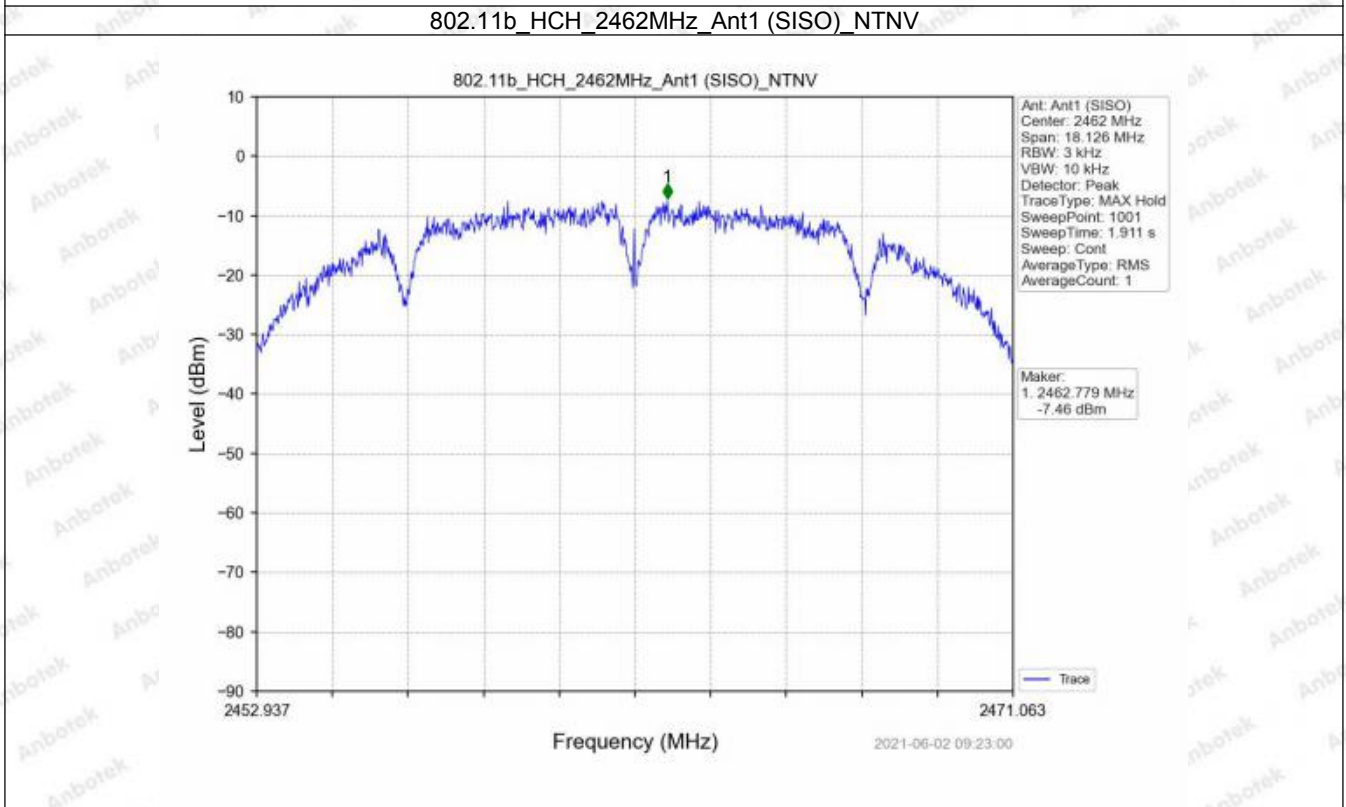
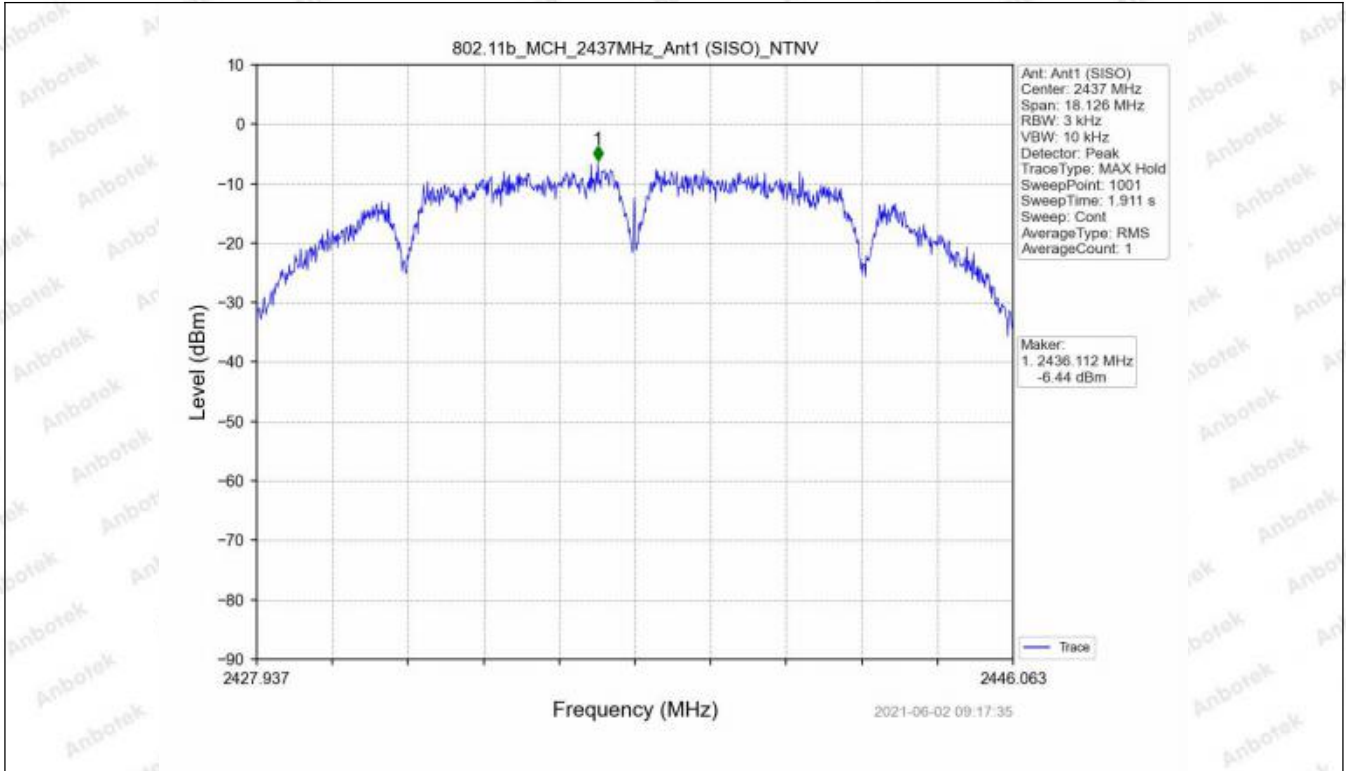
#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	-6.52	<=8	Pass
		2437	/	/	-6.44	<=8	Pass
		2462	/	/	-7.46	<=8	Pass
802.11g	SISO	2412	/	/	-17.36	<=8	Pass
		2437	/	/	-17.10	<=8	Pass
		2462	/	/	-18.03	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-16.97	<=8	Pass
		2437	/	/	-17.79	<=8	Pass
		2462	/	/	-18.21	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-20.68	<=8	Pass
		2437	/	/	-20.20	<=8	Pass
		2452	/	/	-21.27	<=8	Pass

Note1: Antenna Gain: 1:0dBi;

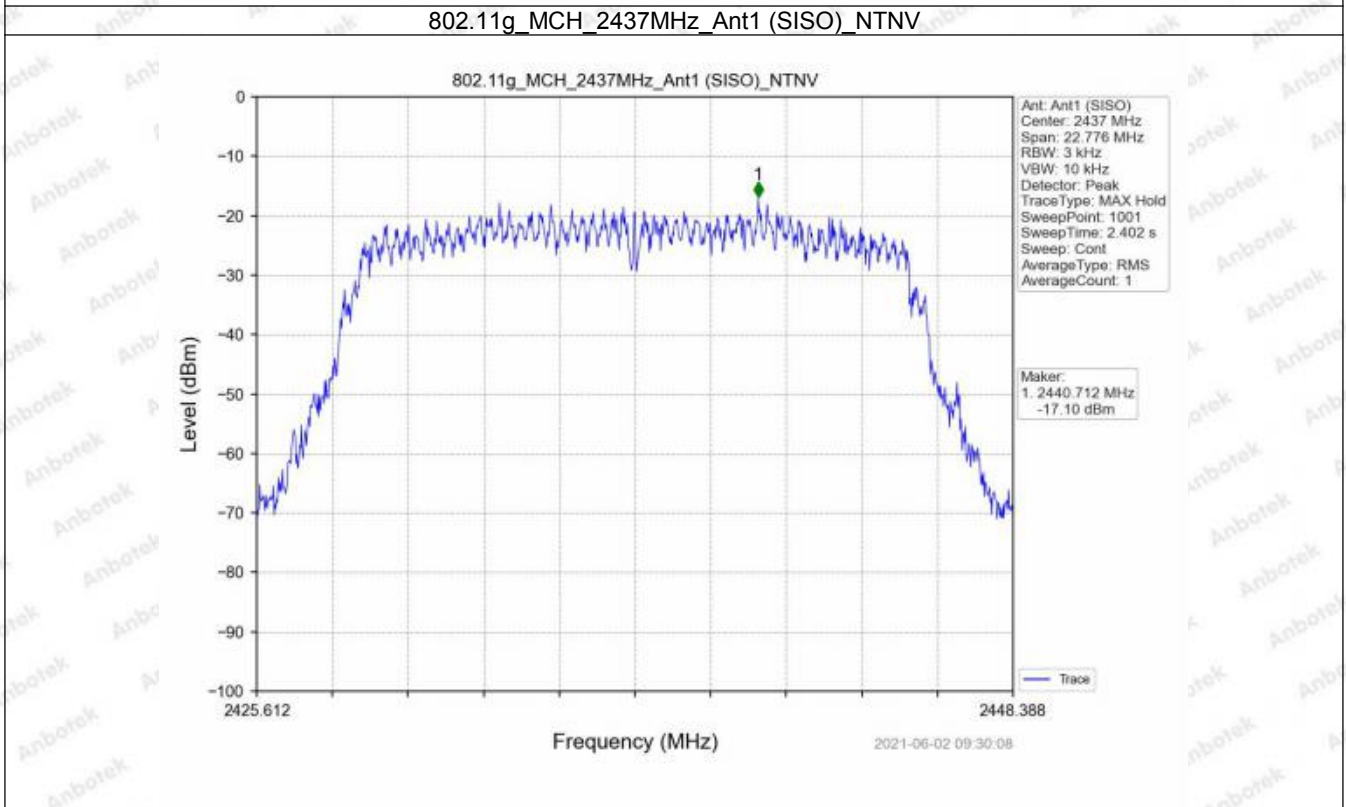
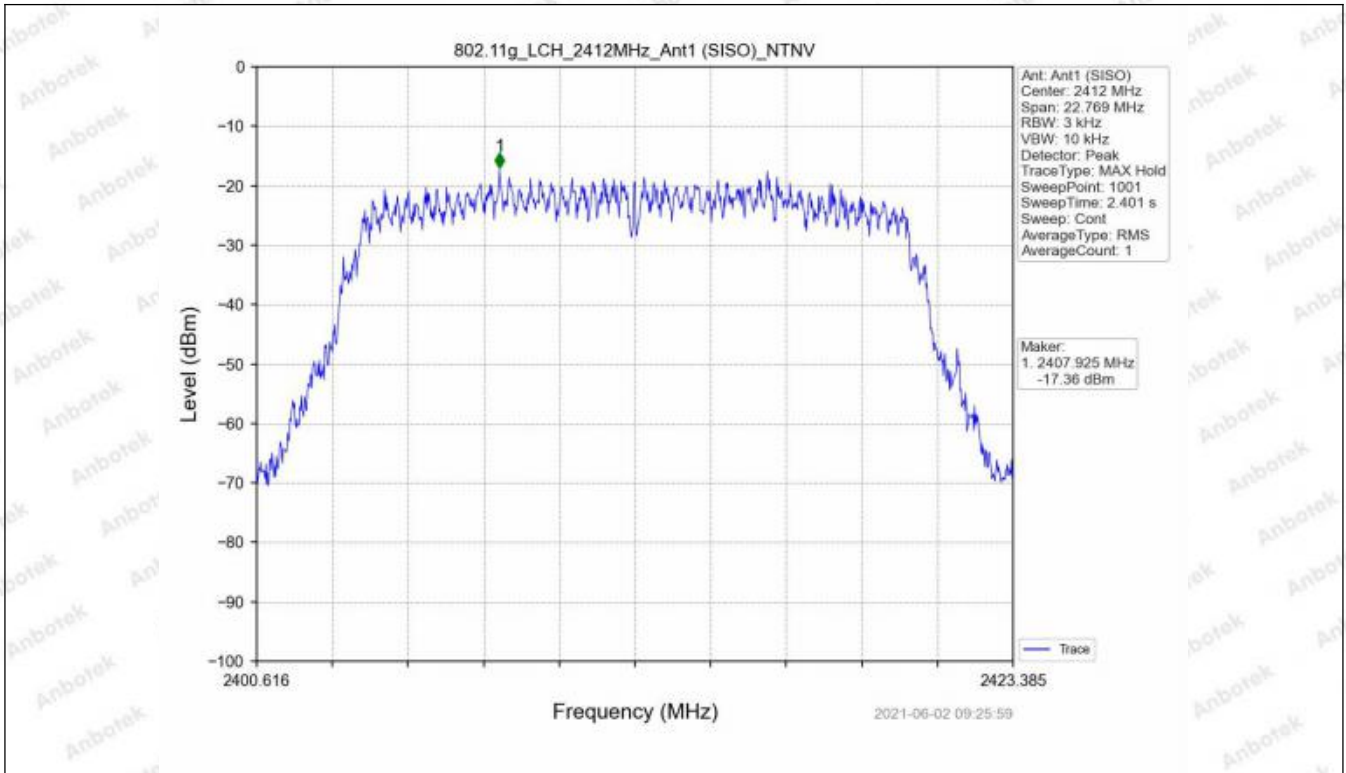
#### 4.1.2 Test Graph



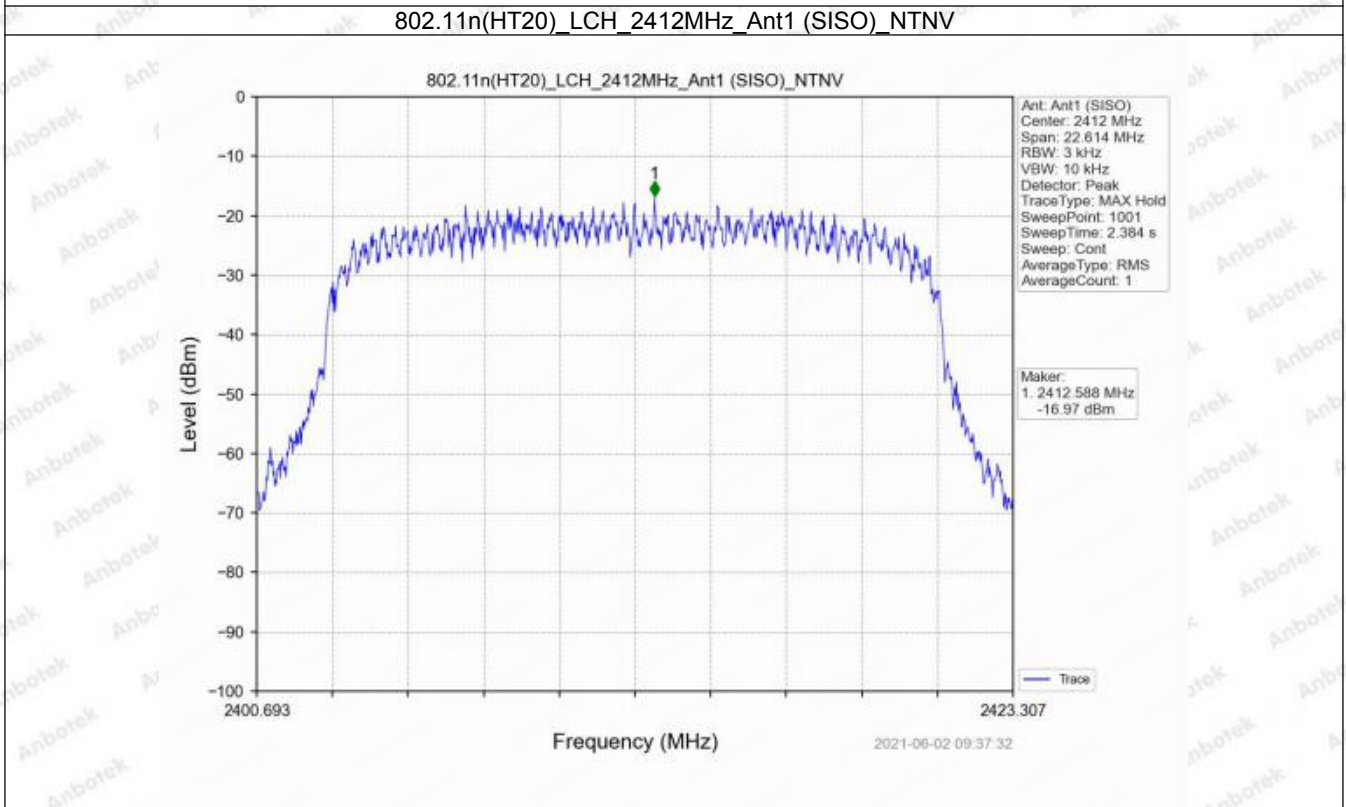
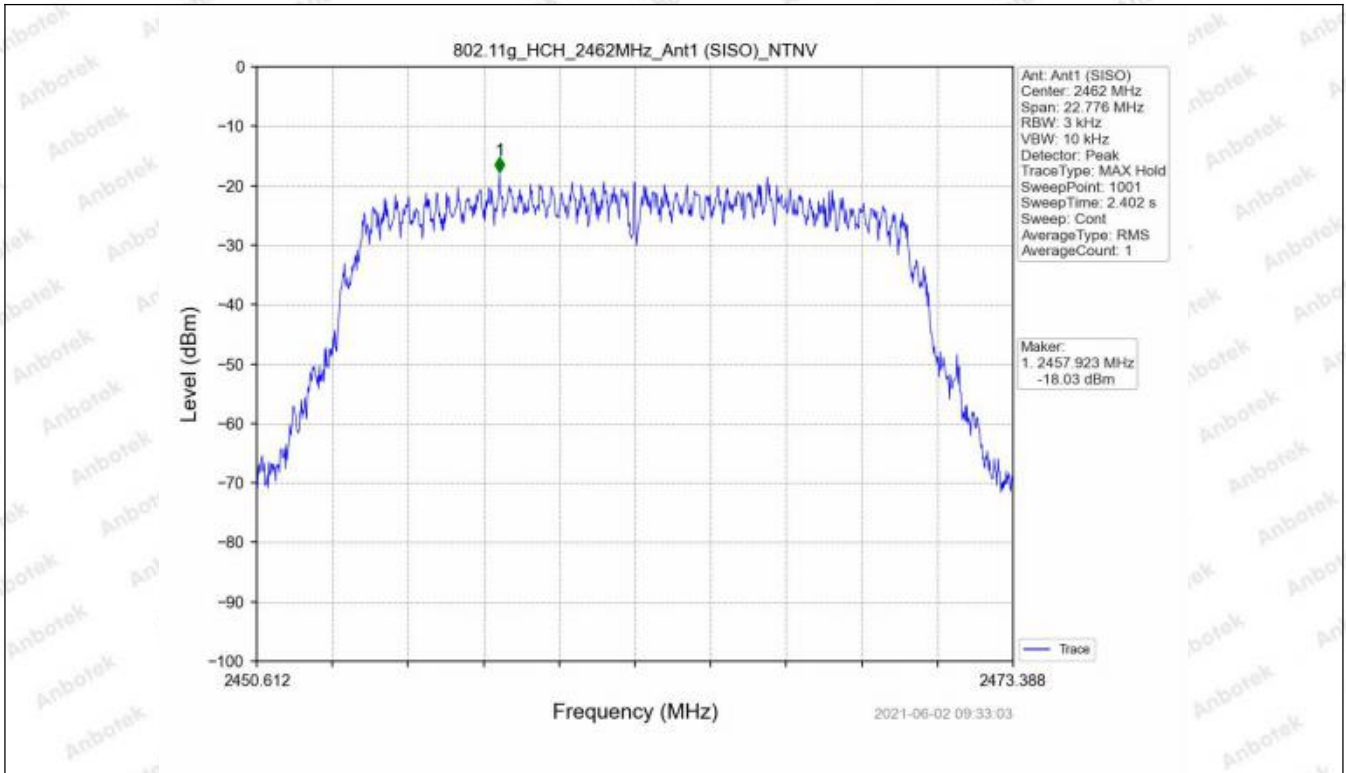


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

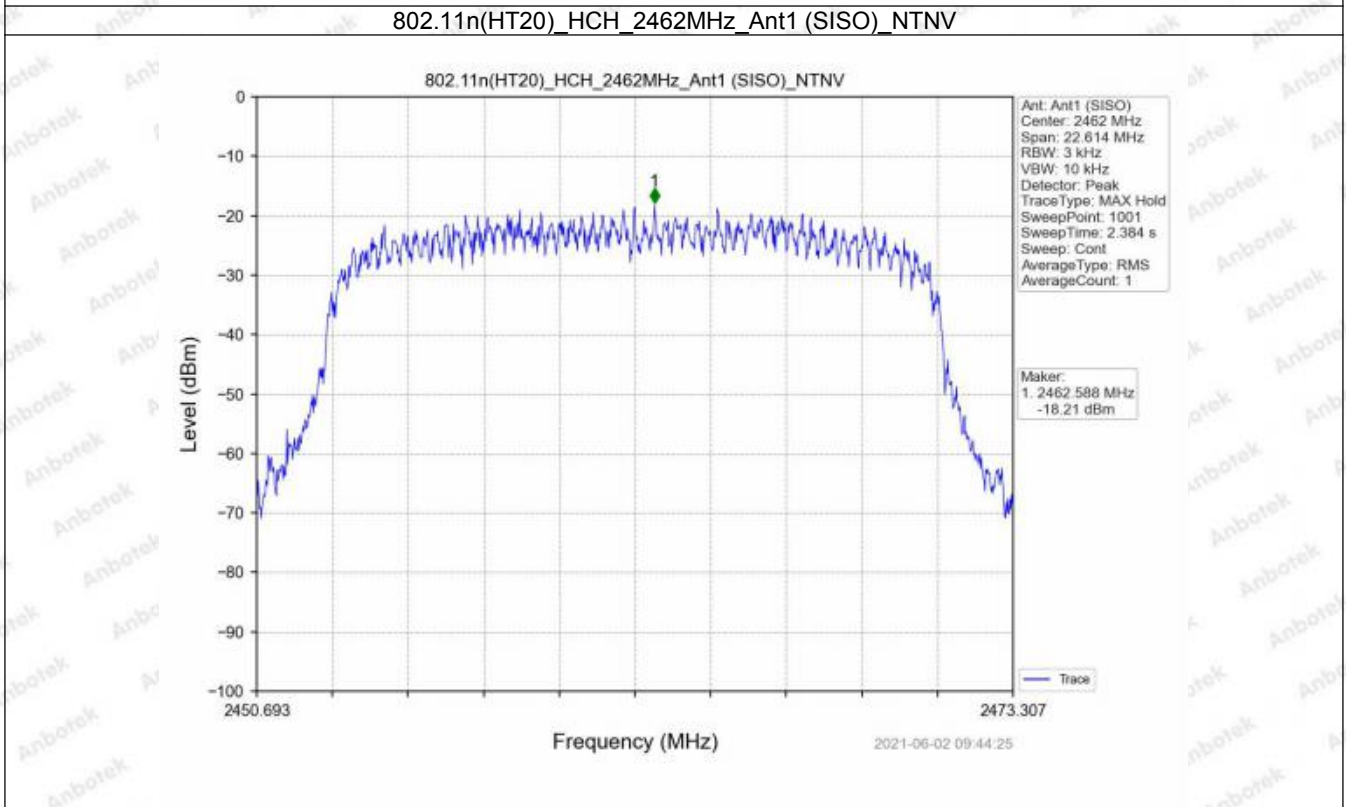
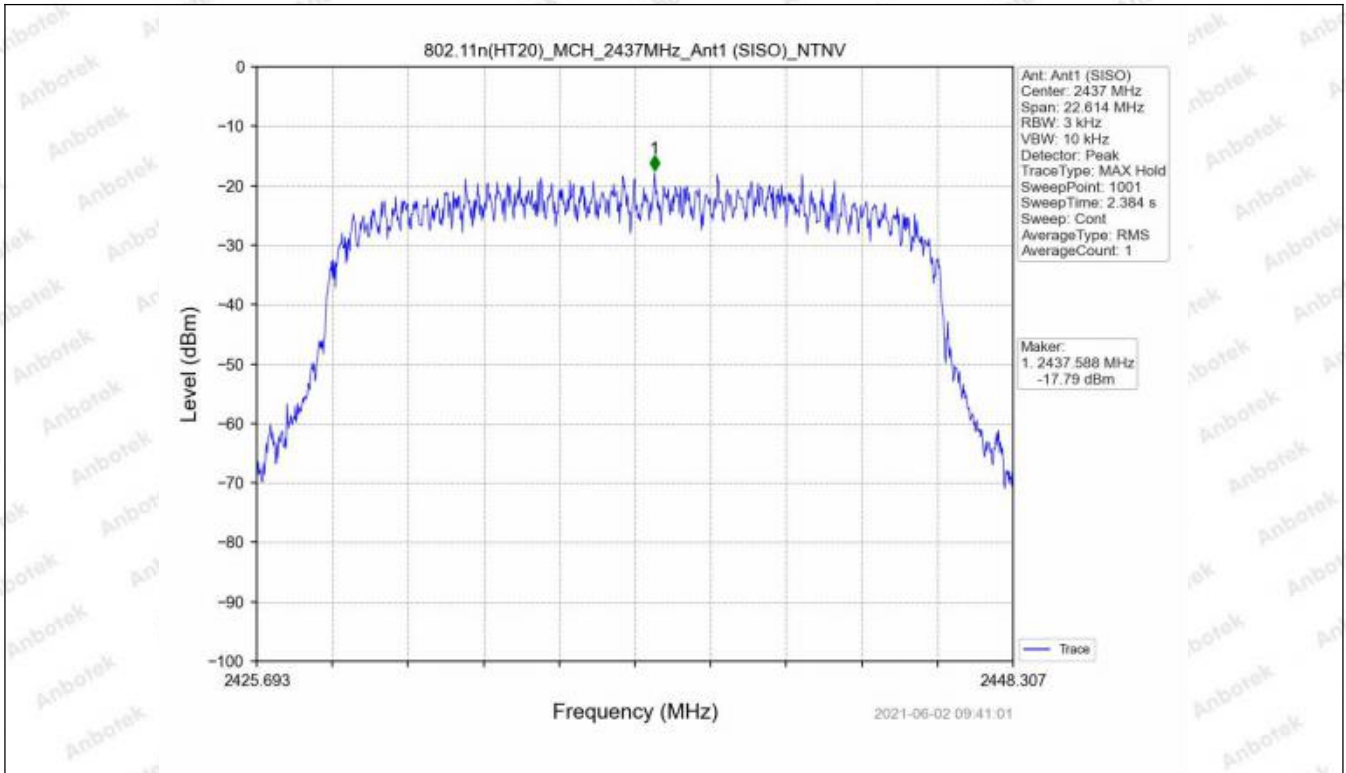




802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

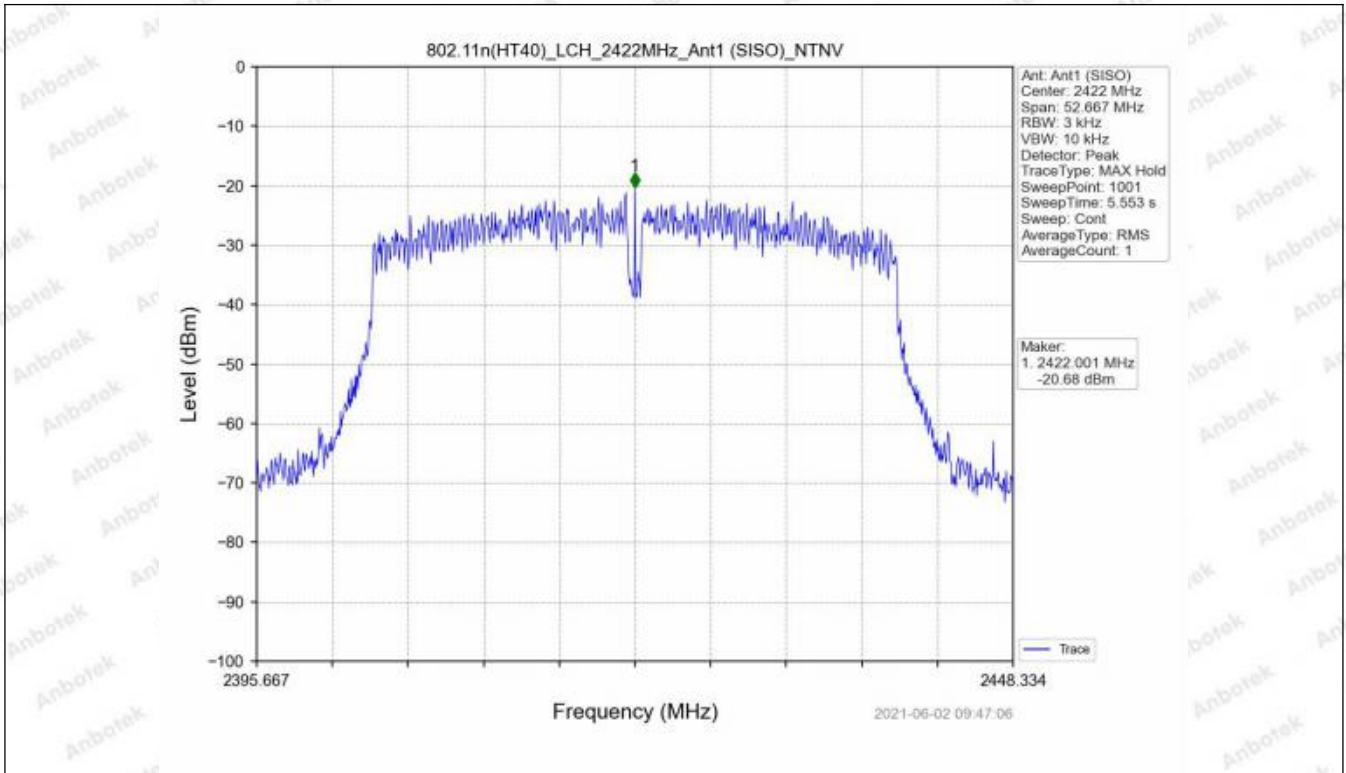


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

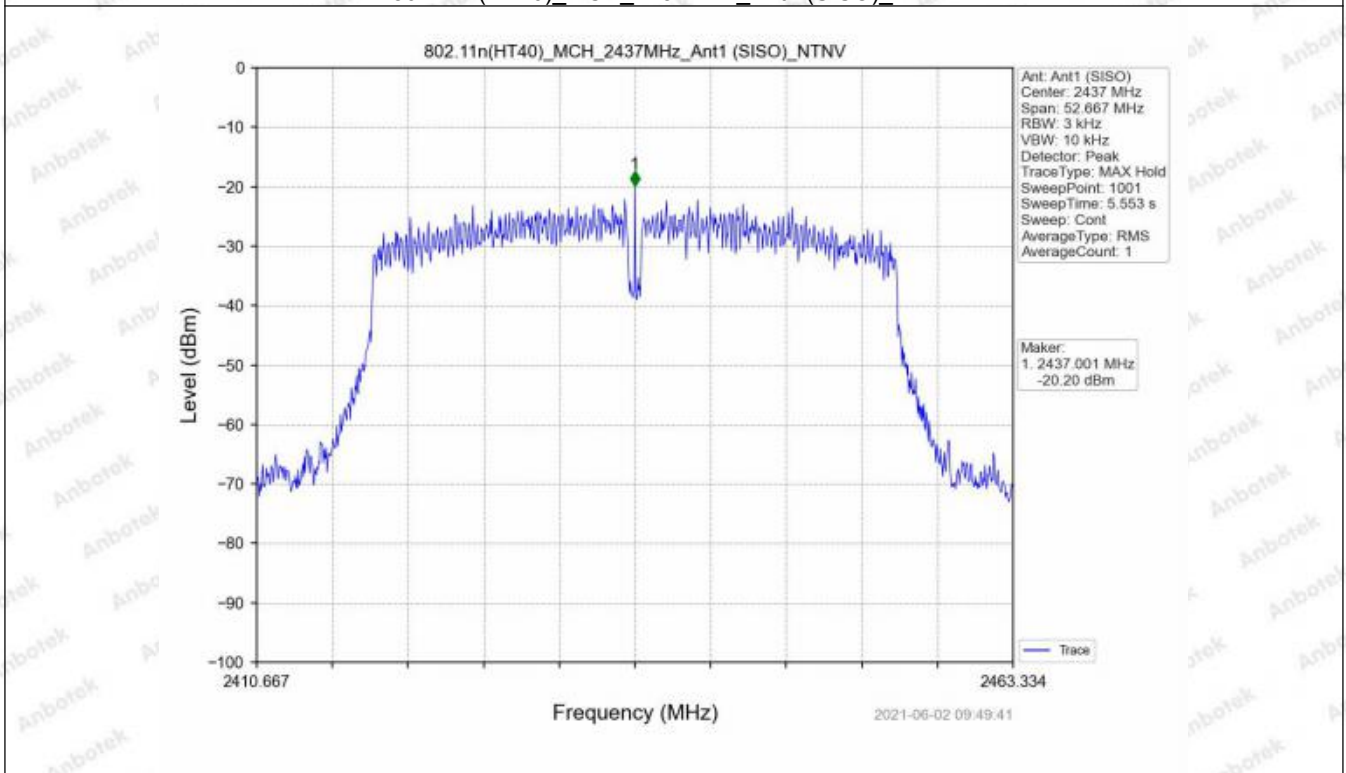


802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

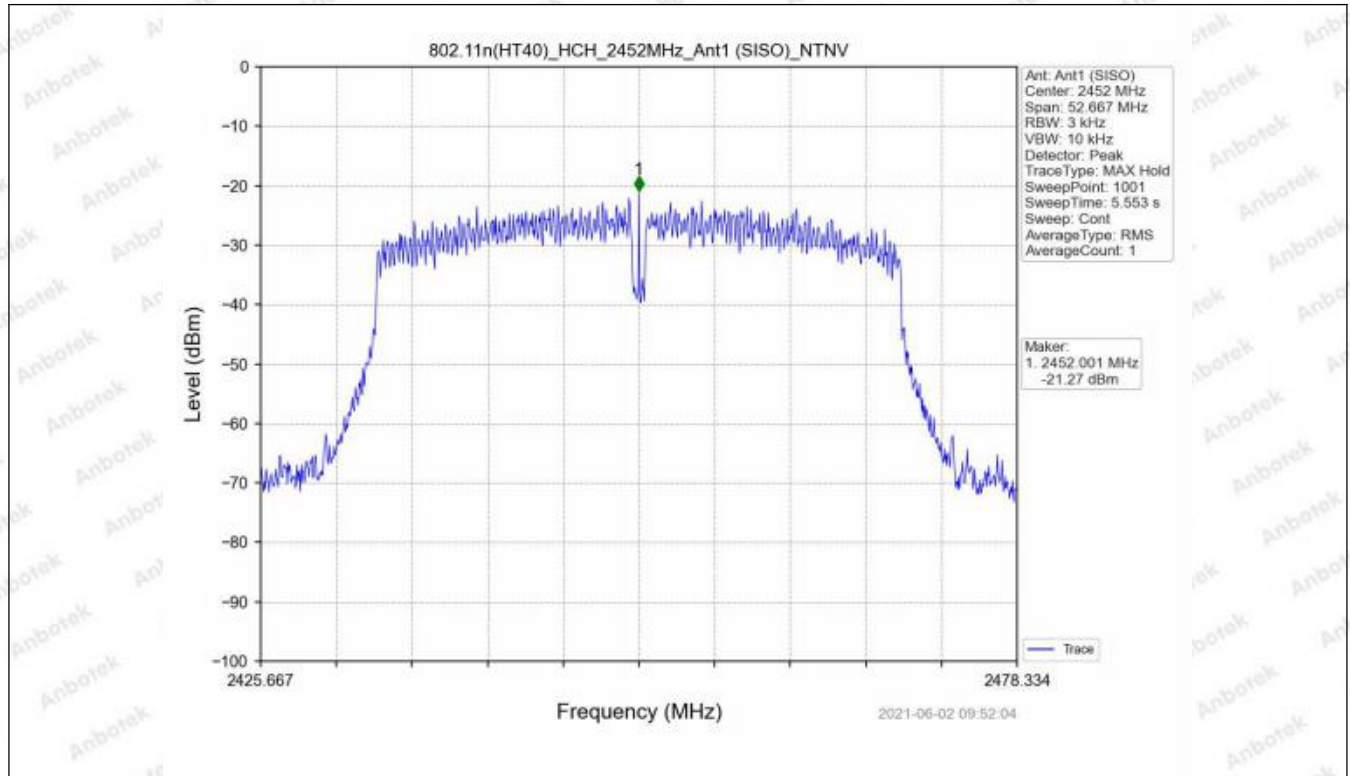




802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

Hotline  
400-003-0500  
www.anbotek.com

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

### 5.1 Ref

#### 5.1.1 Test Result

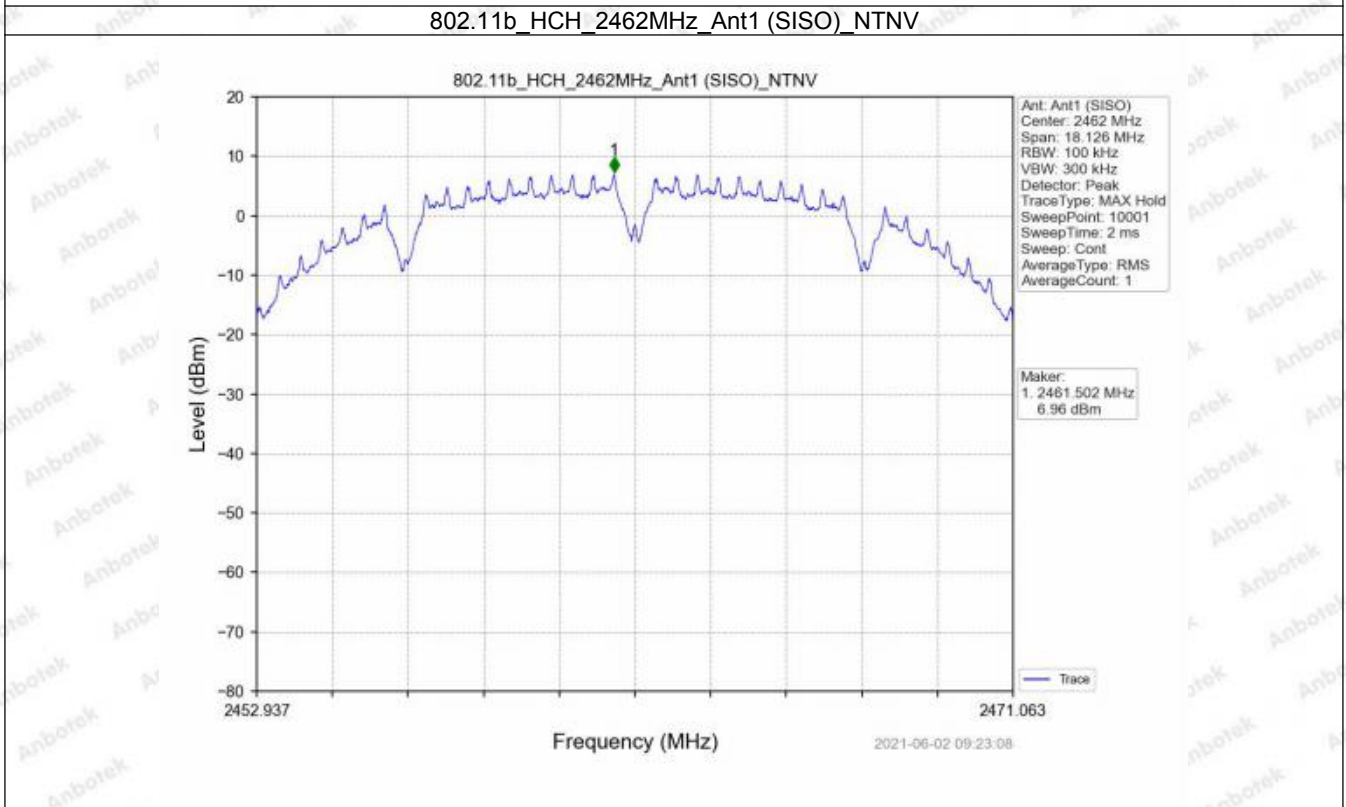
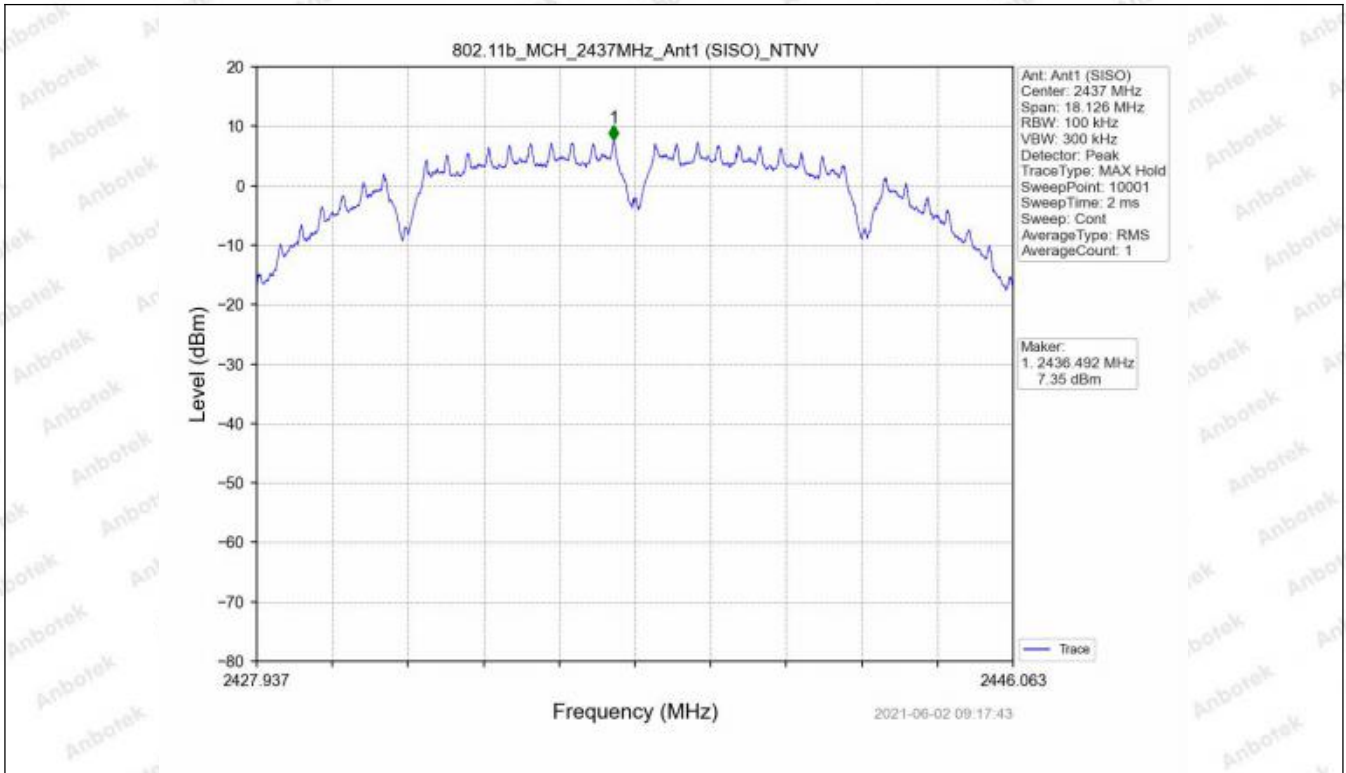
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	7.66	/	/
		2437	/	/	1	7.35	/	/
		2462	/	/	1	6.96	/	/
802.11g	SISO	2412	/	/	1	-2.80	/	/
		2437	/	/	1	-3.25	/	/
		2462	/	/	1	-3.74	/	/
802.11n (HT20)	SISO	2412	/	/	1	-0.03	/	/
		2437	/	/	1	-1.04	/	/
		2462	/	/	1	-1.18	/	/
802.11n (HT40)	SISO	2422	/	/	1	-6.57	/	/
		2437	/	/	1	-7.05	/	/
		2452	/	/	1	-7.39	/	/

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.

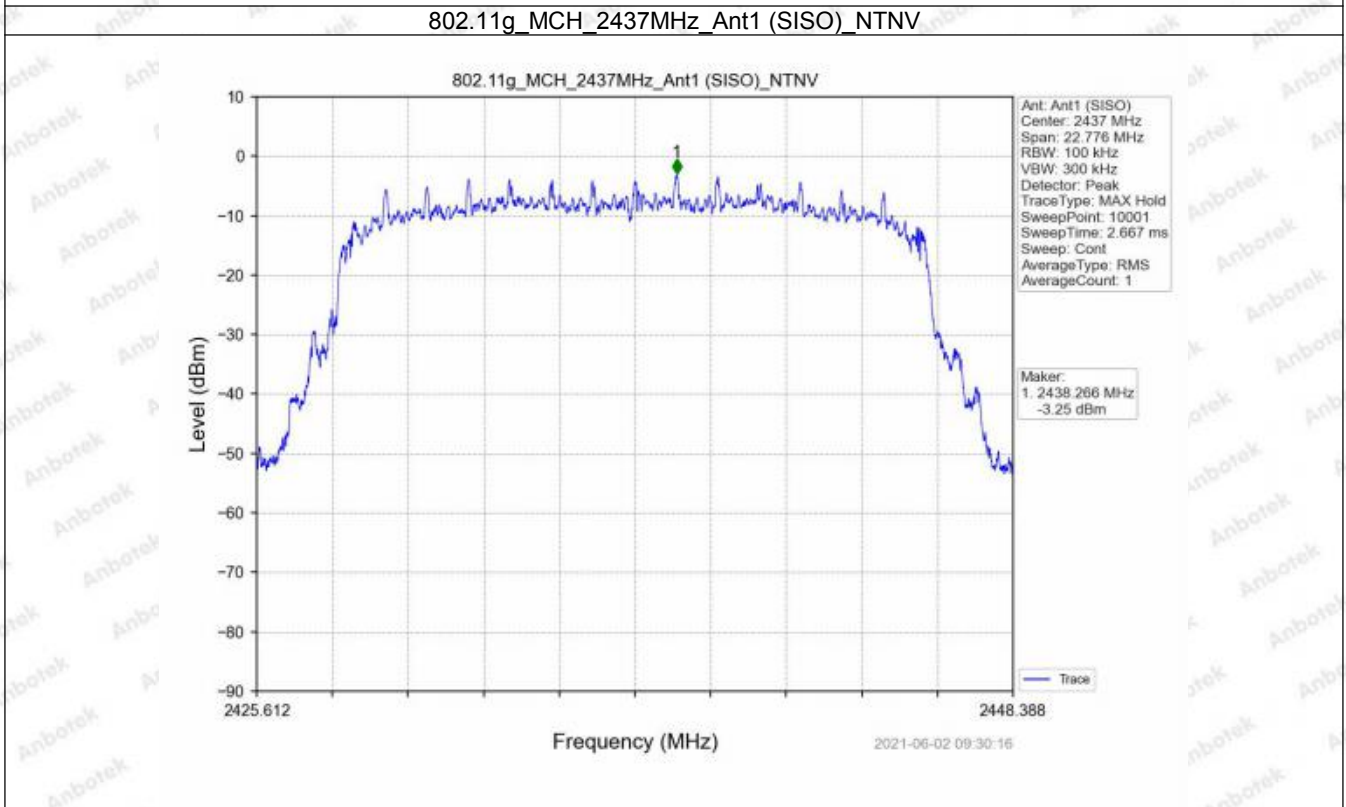
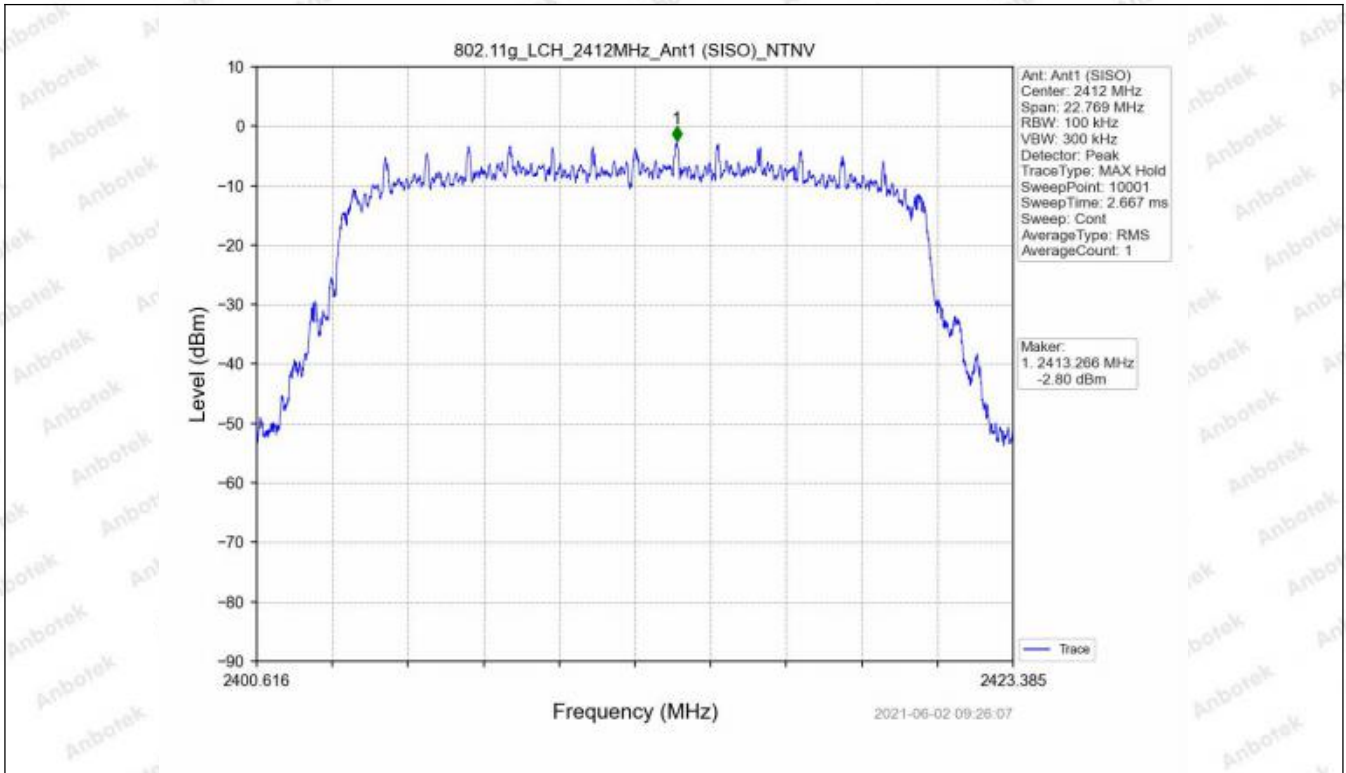
#### 5.1.2 Test Graph



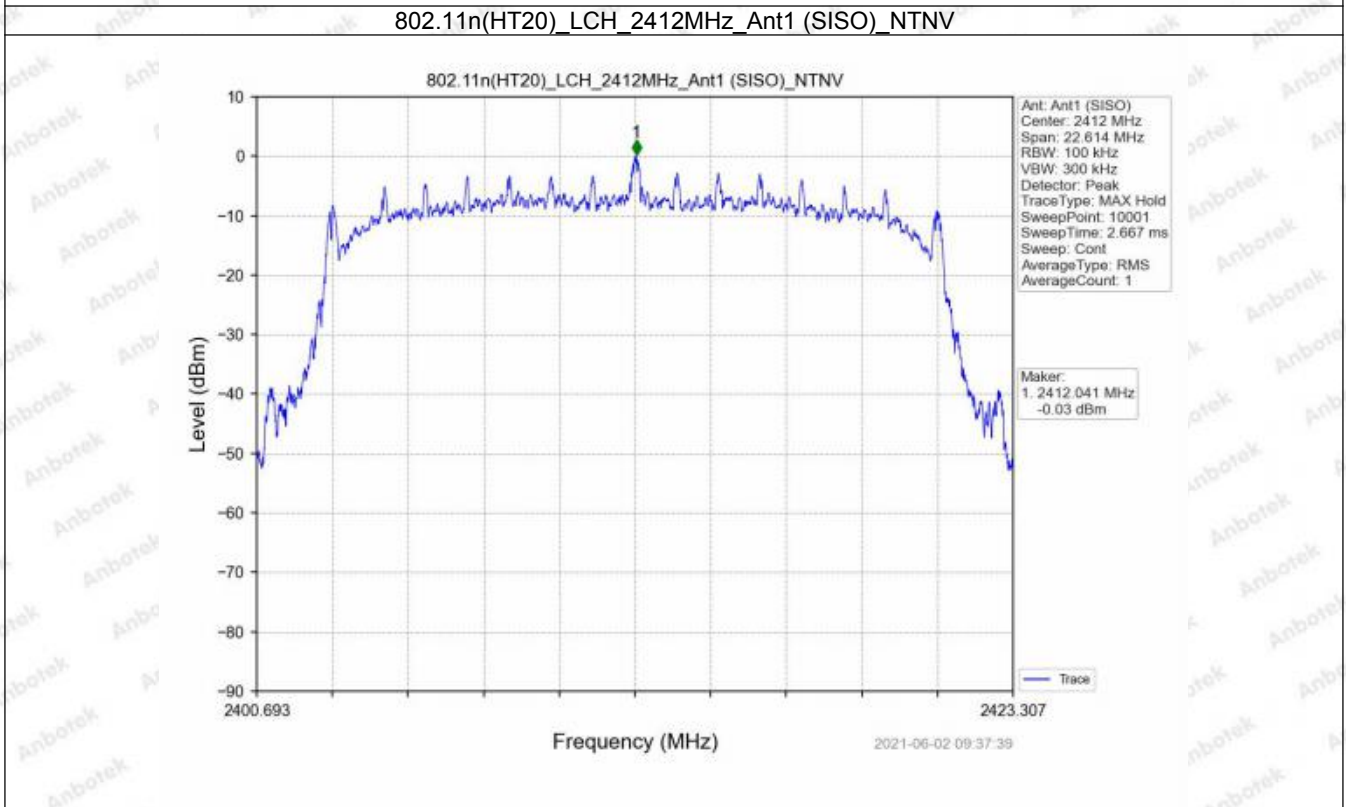
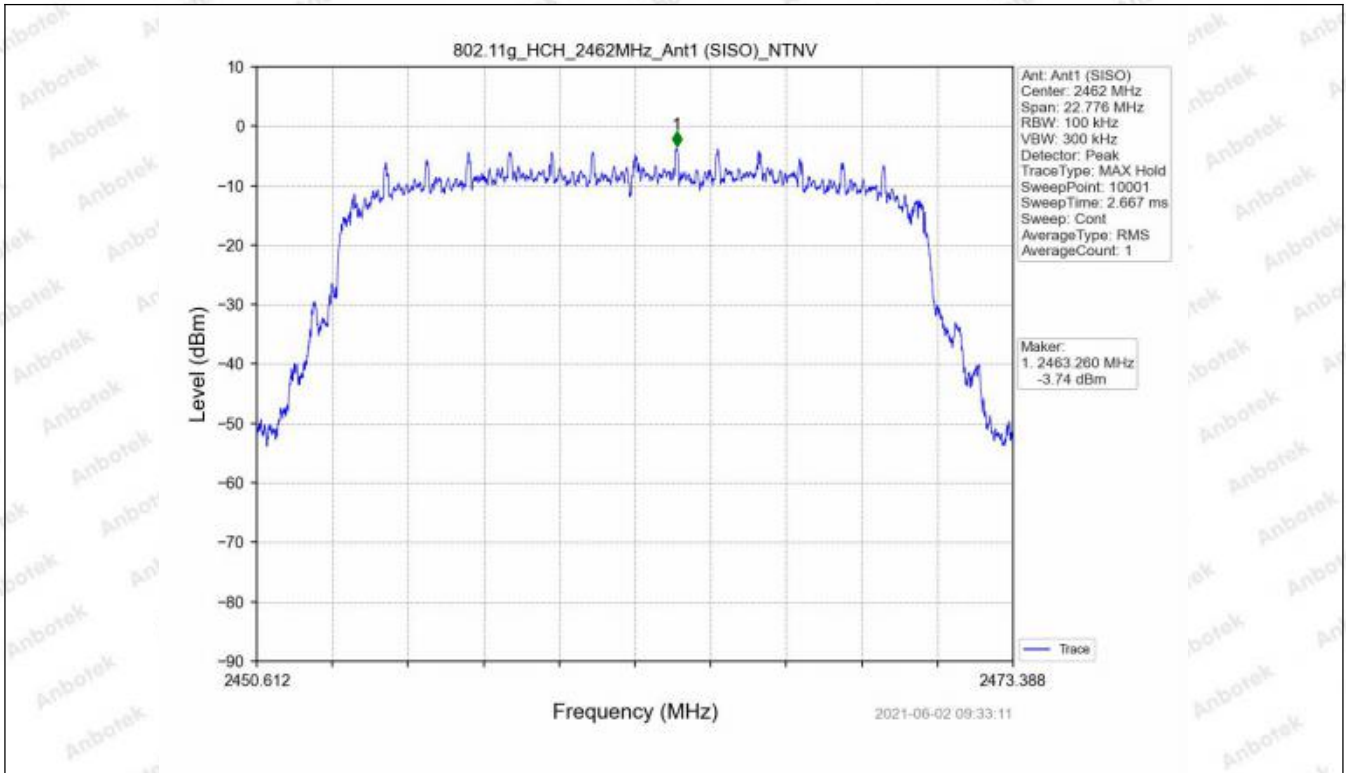




802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

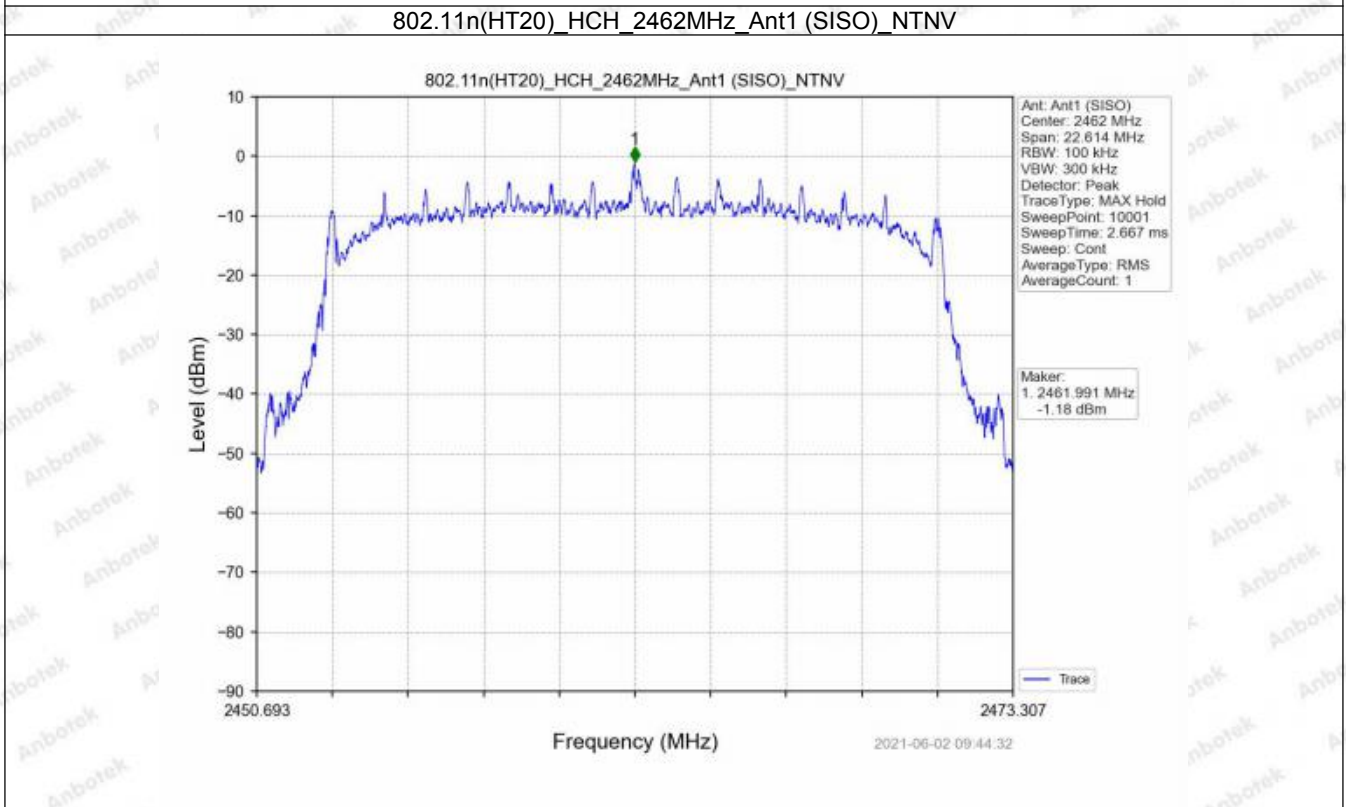
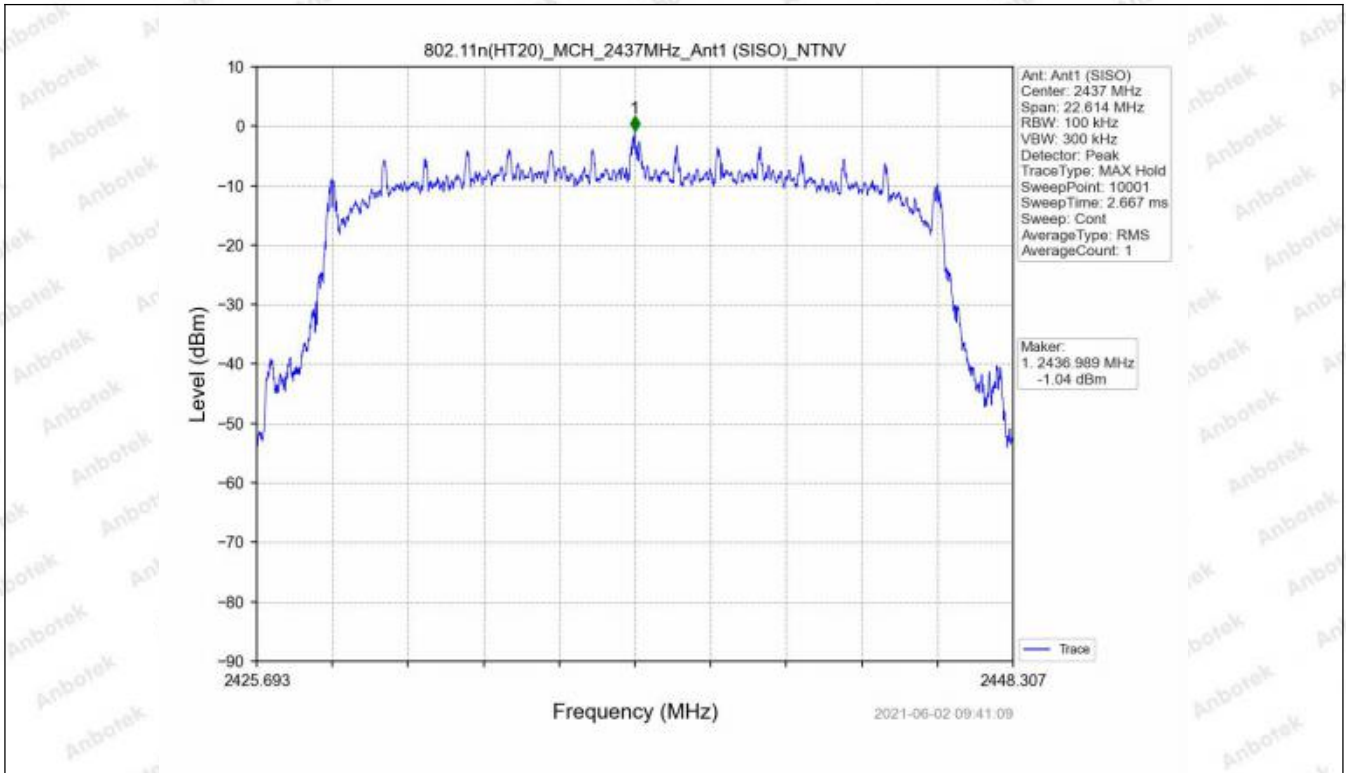


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

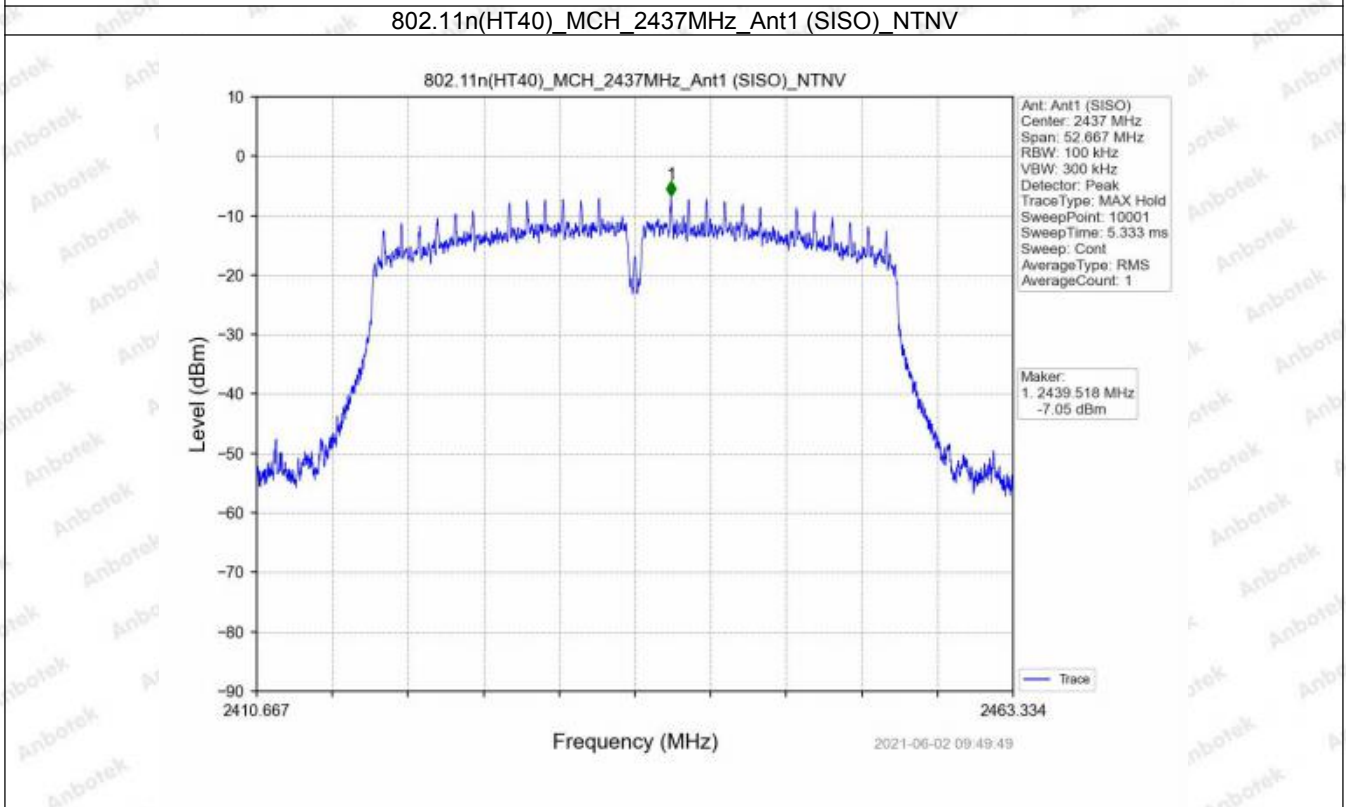
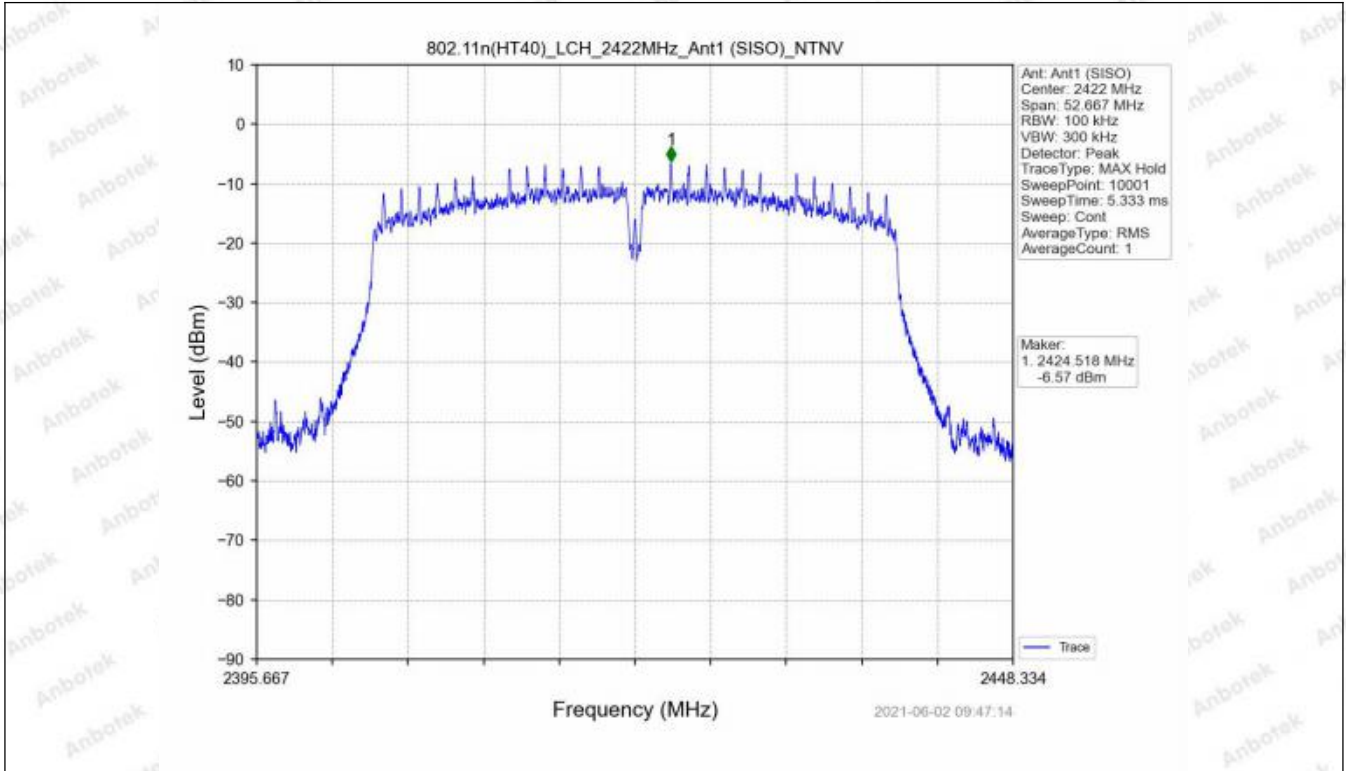


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

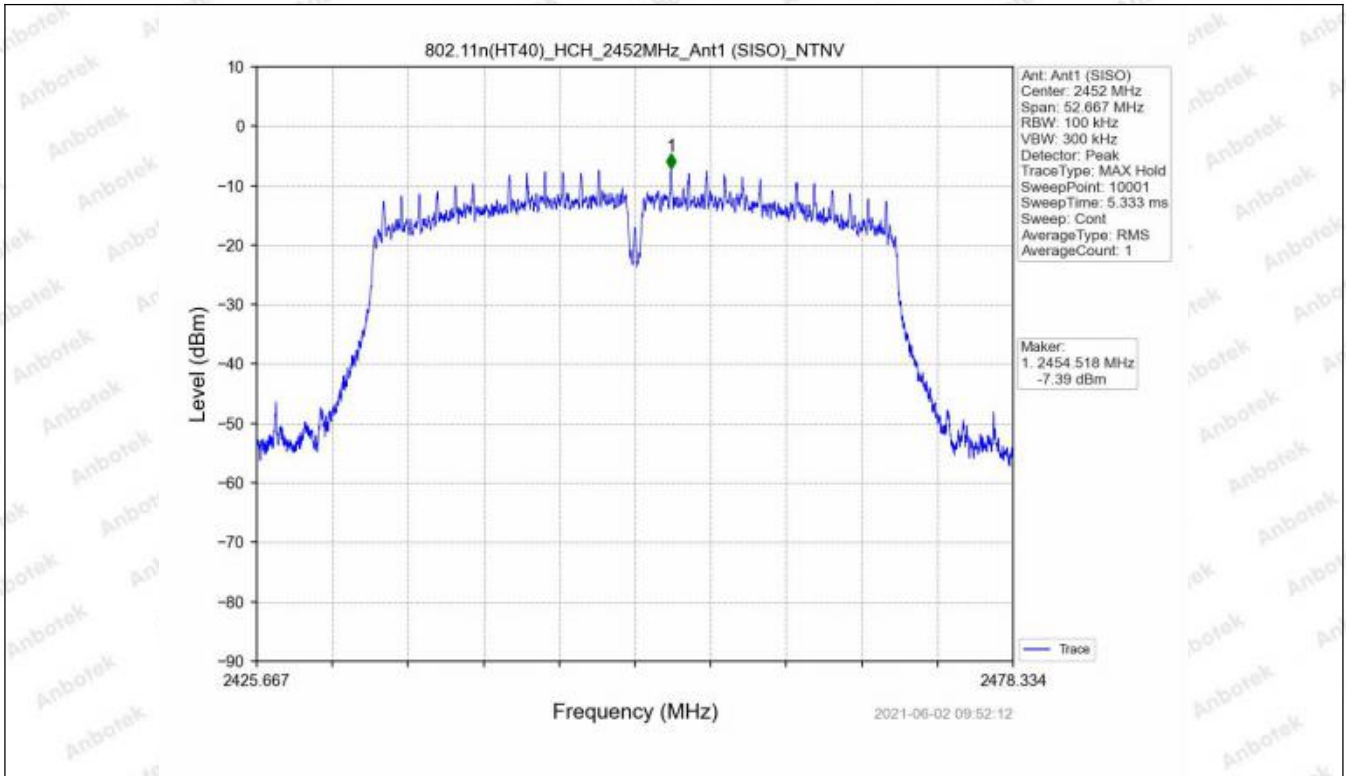




802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com



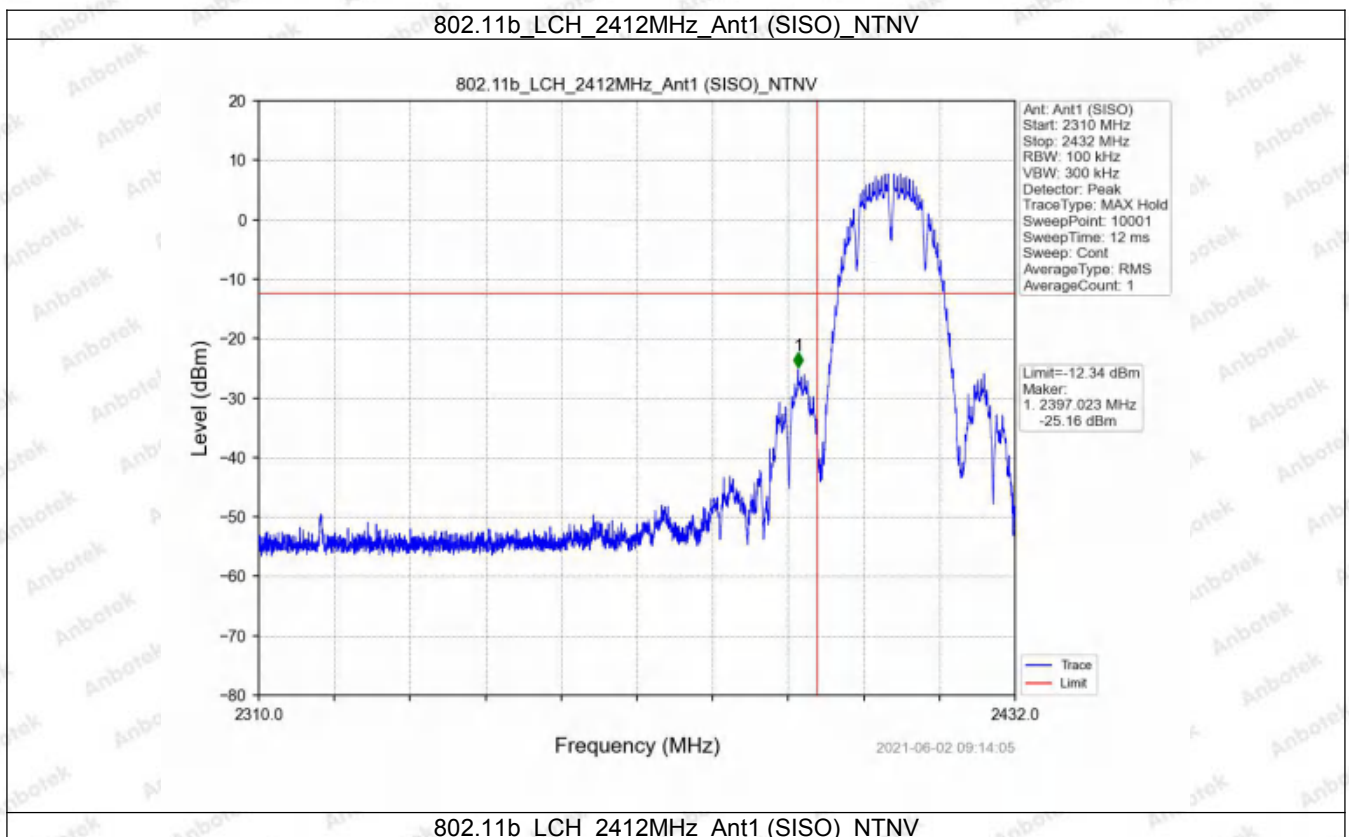
## 5.2 CSE

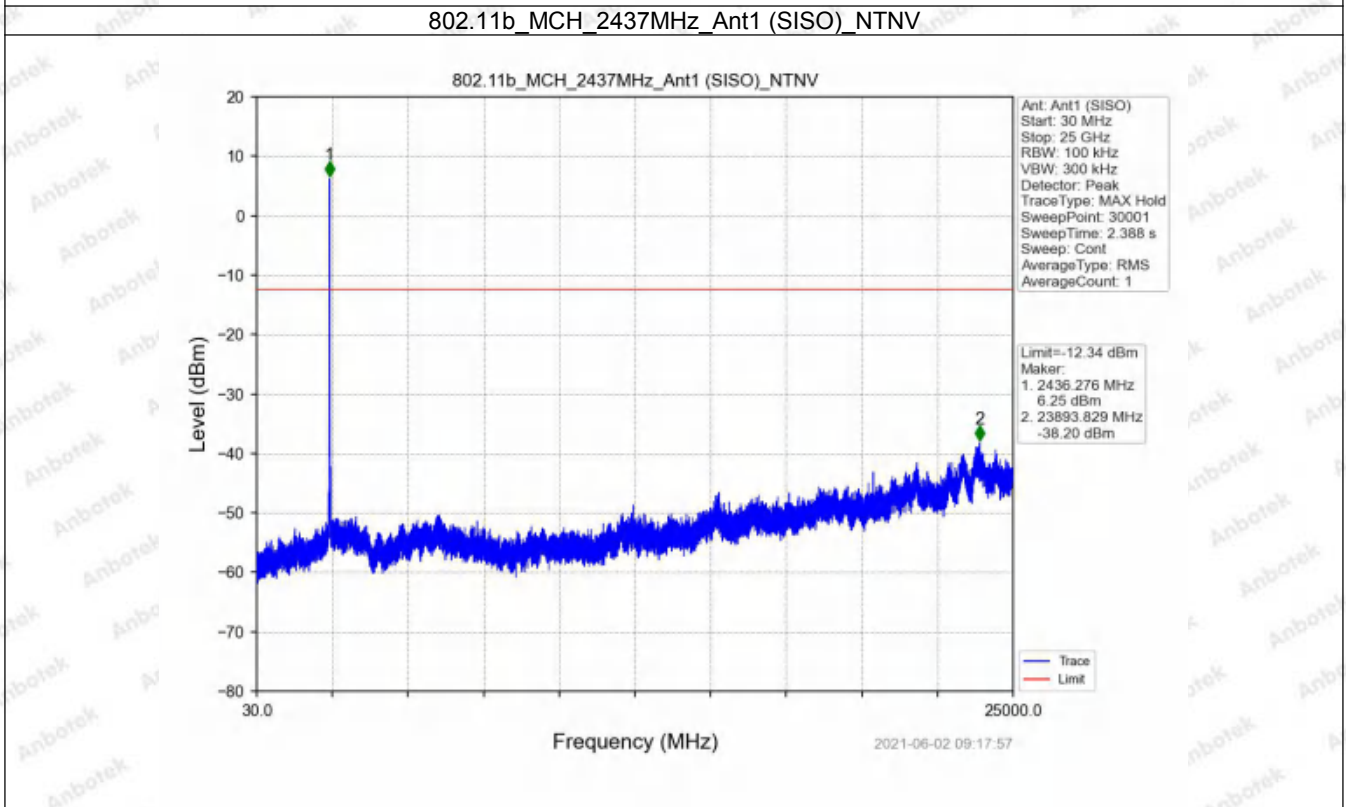
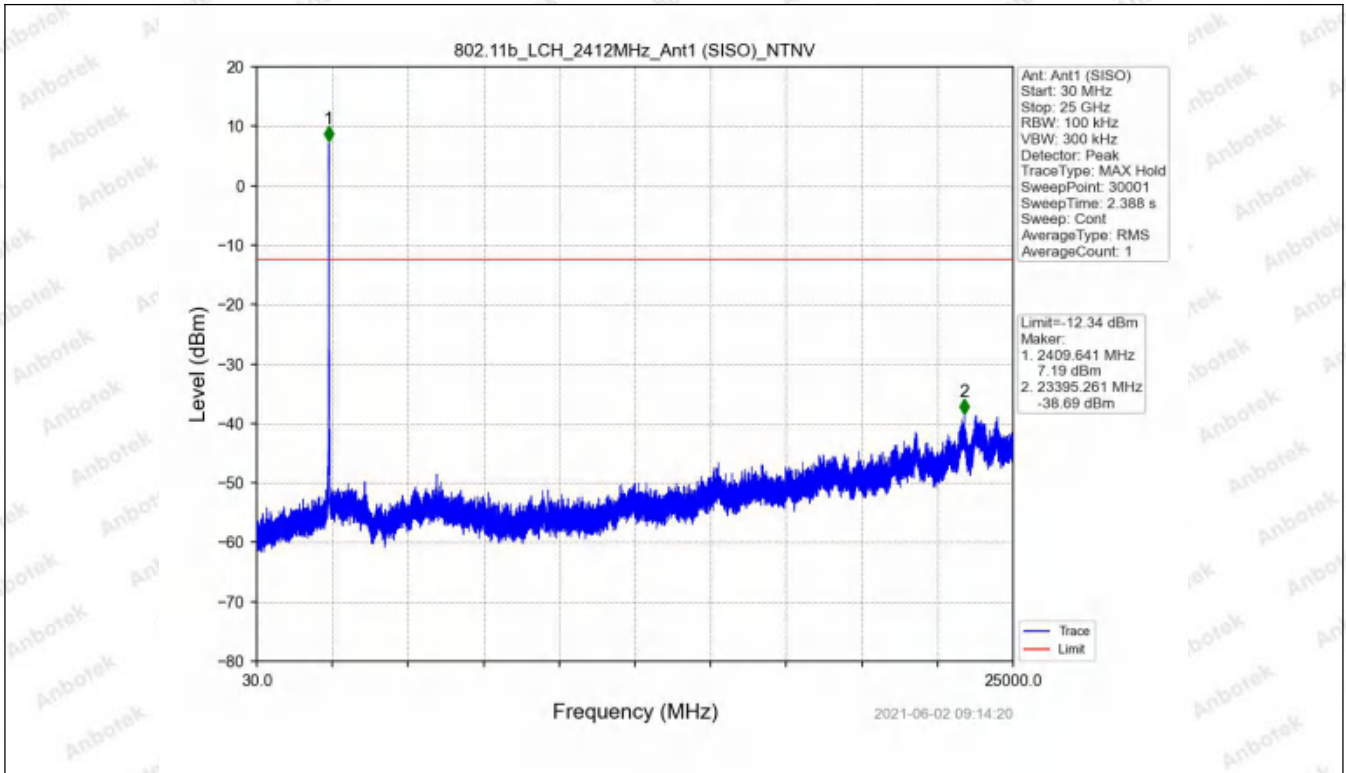
### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	<=-12.34	Pass
		2437	/	/	1	Refer To Test Graph	<=-12.34	Pass
		2462	/	/	1	Refer To Test Graph	<=-12.34	Pass
802.11g	SISO	2412	/	/	1	Refer To Test Graph	<=-22.8	Pass
		2437	/	/	1	Refer To Test Graph	<=-22.8	Pass
		2462	/	/	1	Refer To Test Graph	<=-22.8	Pass
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	<=-20.03	Pass
		2437	/	/	1	Refer To Test Graph	<=-20.03	Pass
		2462	/	/	1	Refer To Test Graph	<=-20.03	Pass
802.11n (HT40)	SISO	2422	/	/	1	Refer To Test Graph	<=-20.03	Pass
		2437	/	/	1	Refer To Test Graph	<=-20.03	Pass
		2452	/	/	1	Refer To Test Graph	<=-20.03	Pass

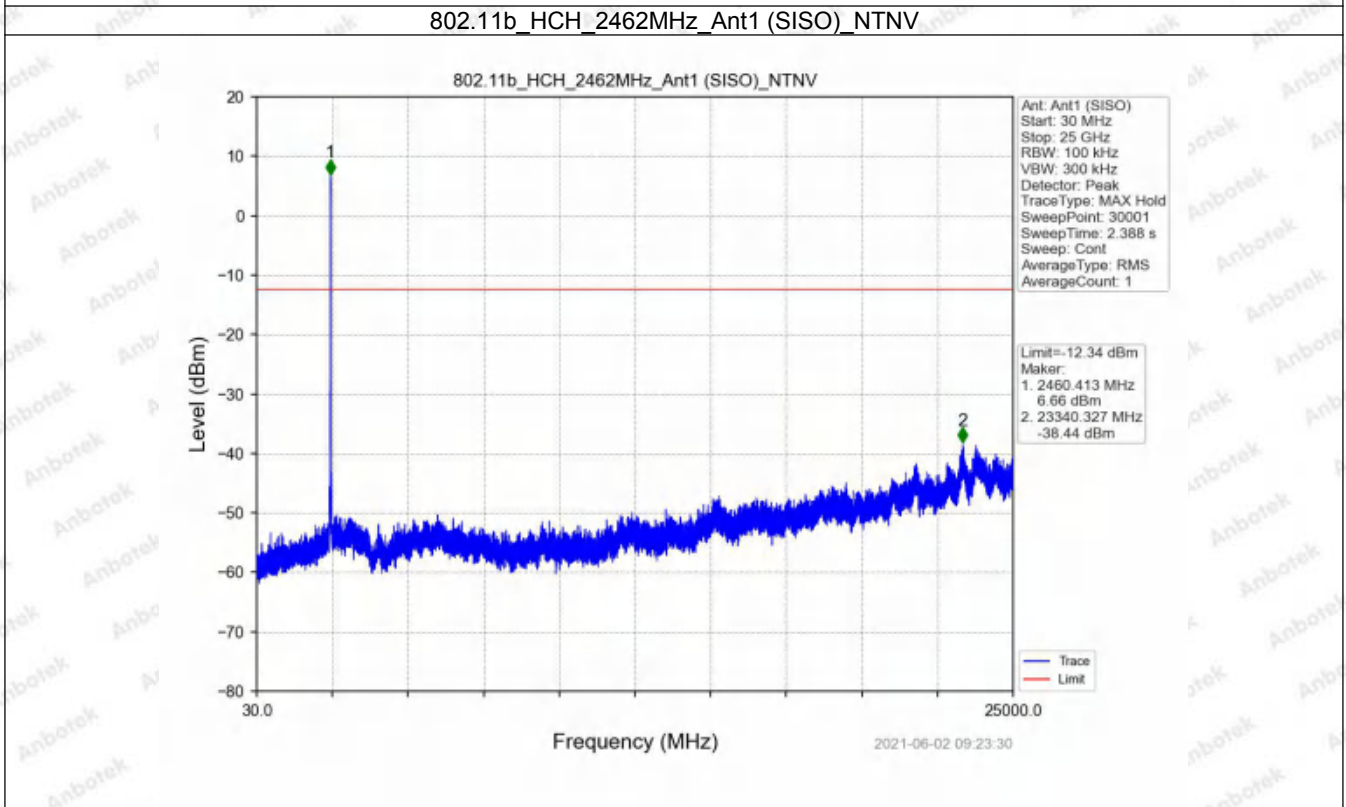
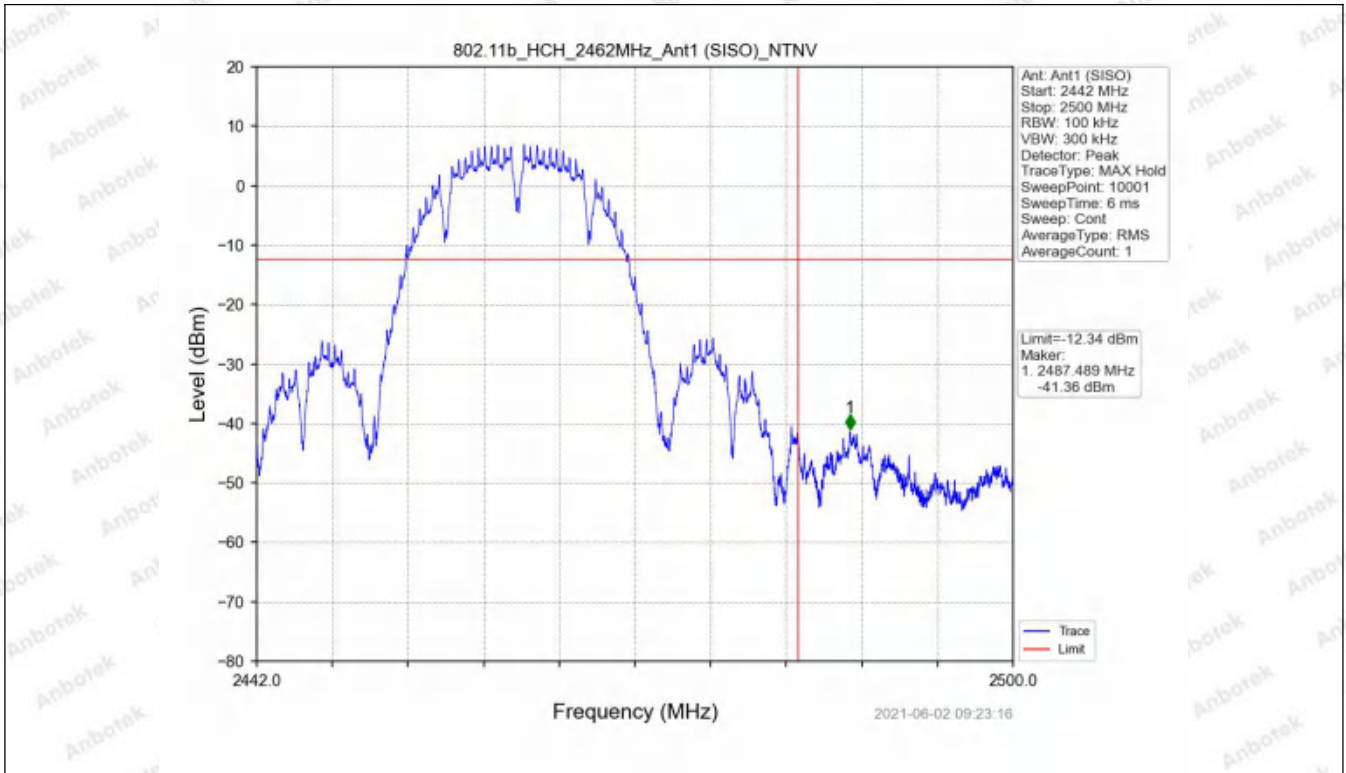
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

### 5.2.2 Test Graph



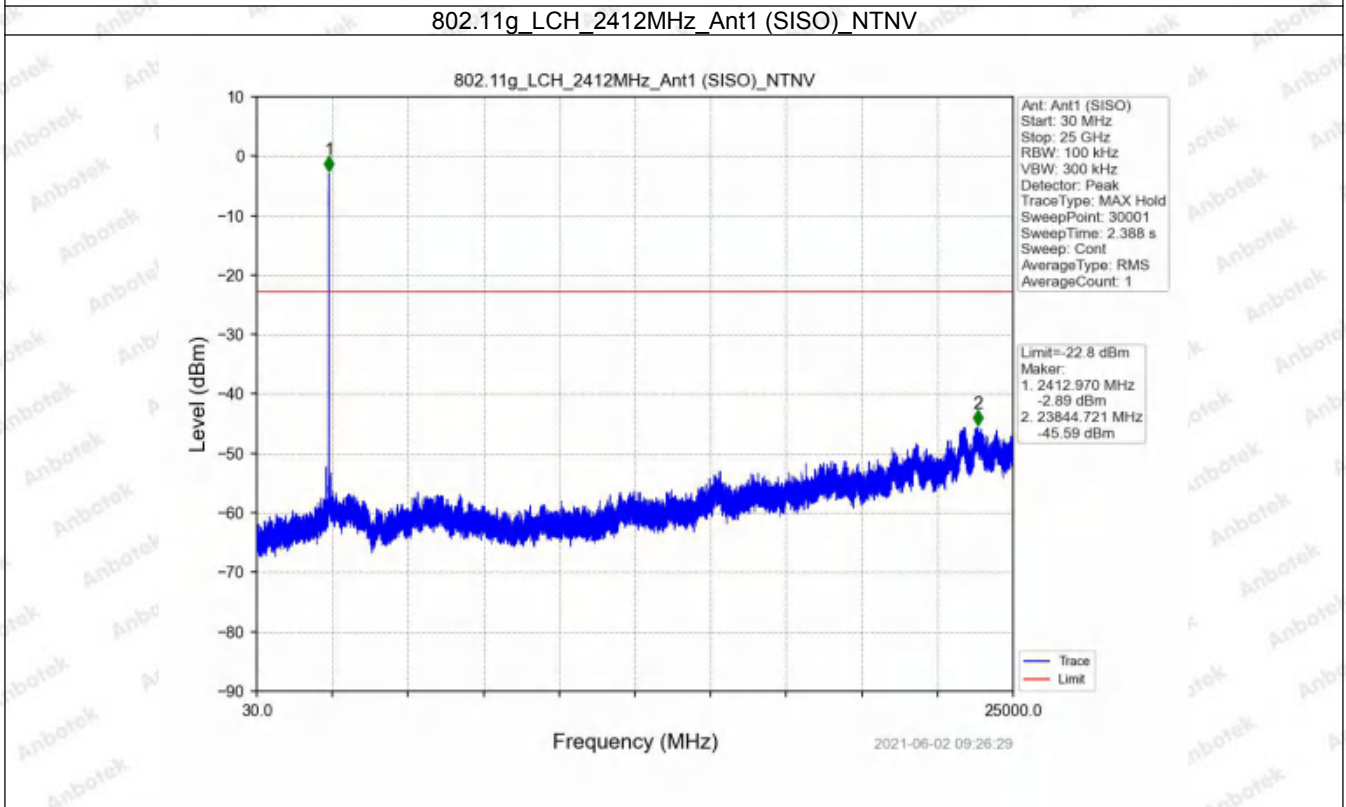
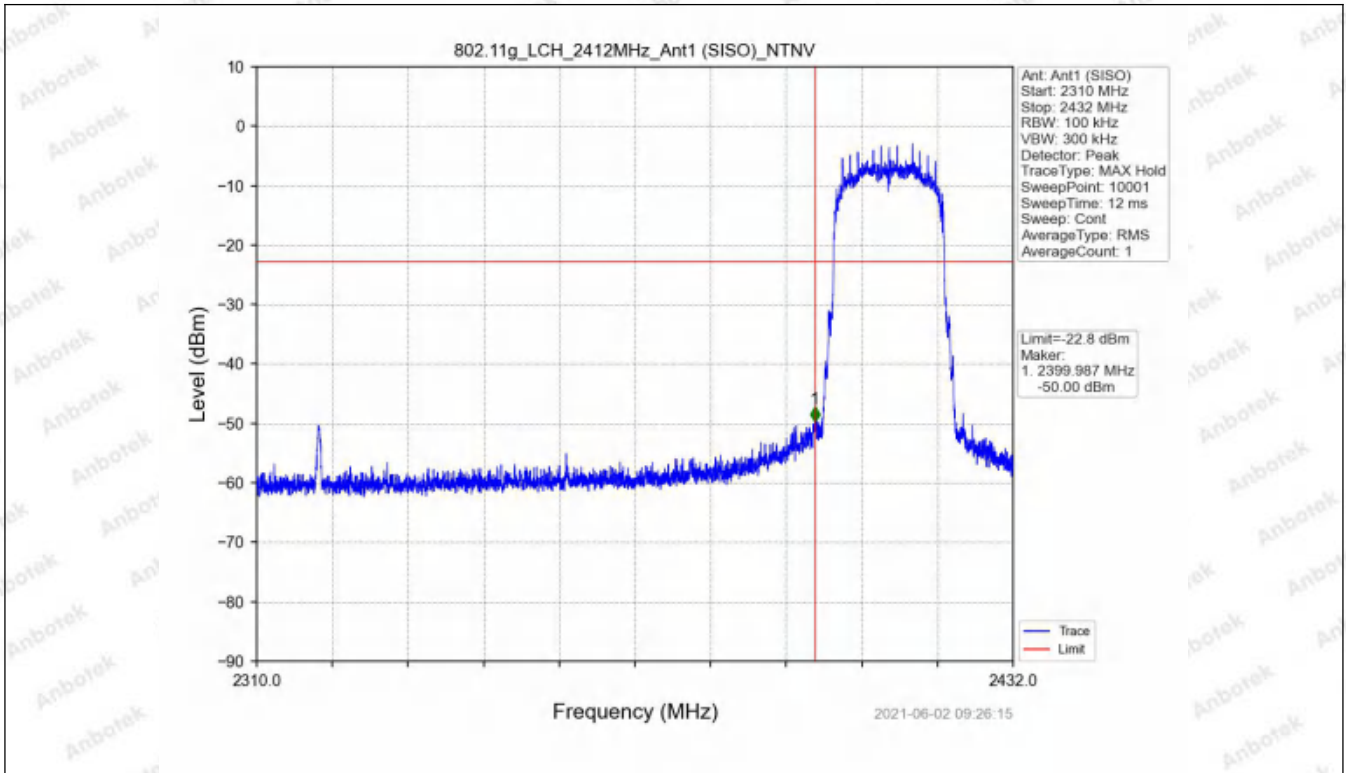


802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

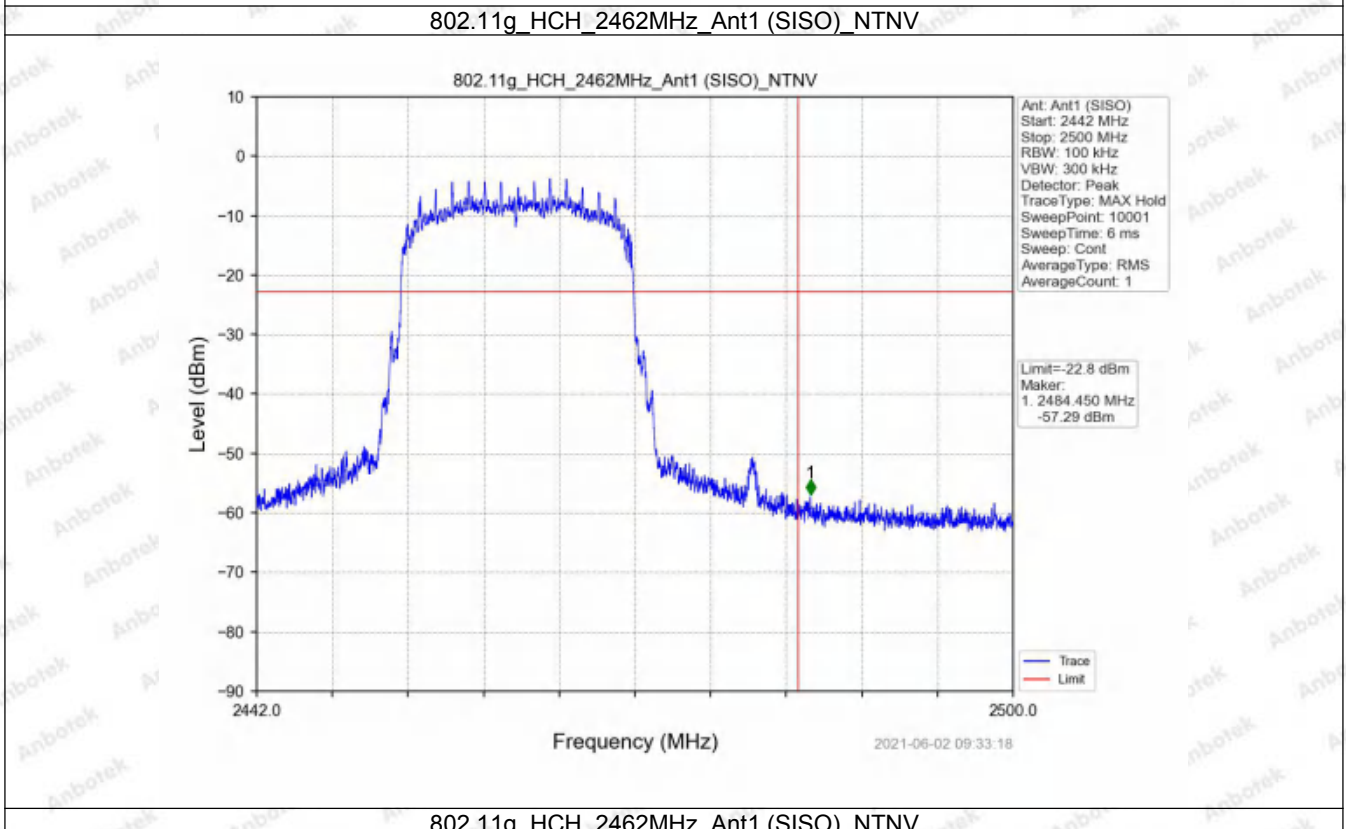
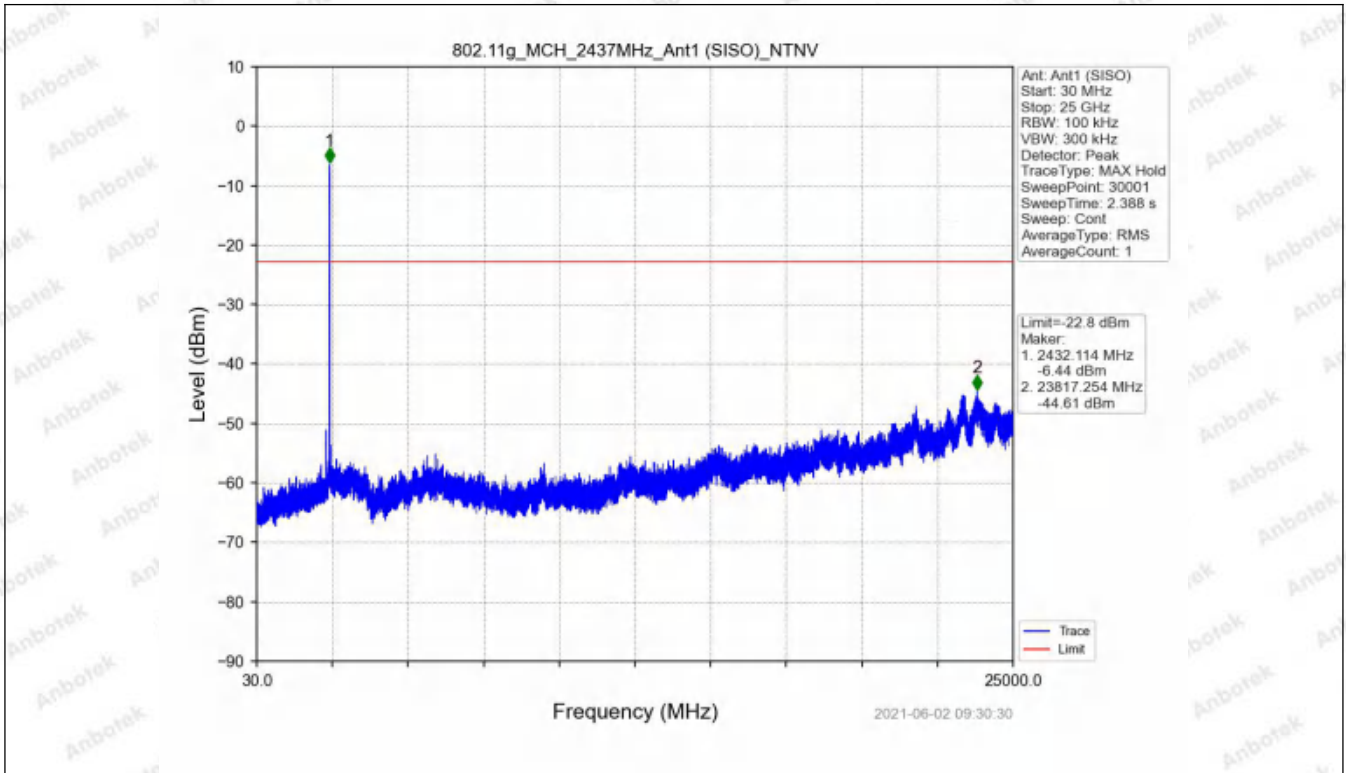


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

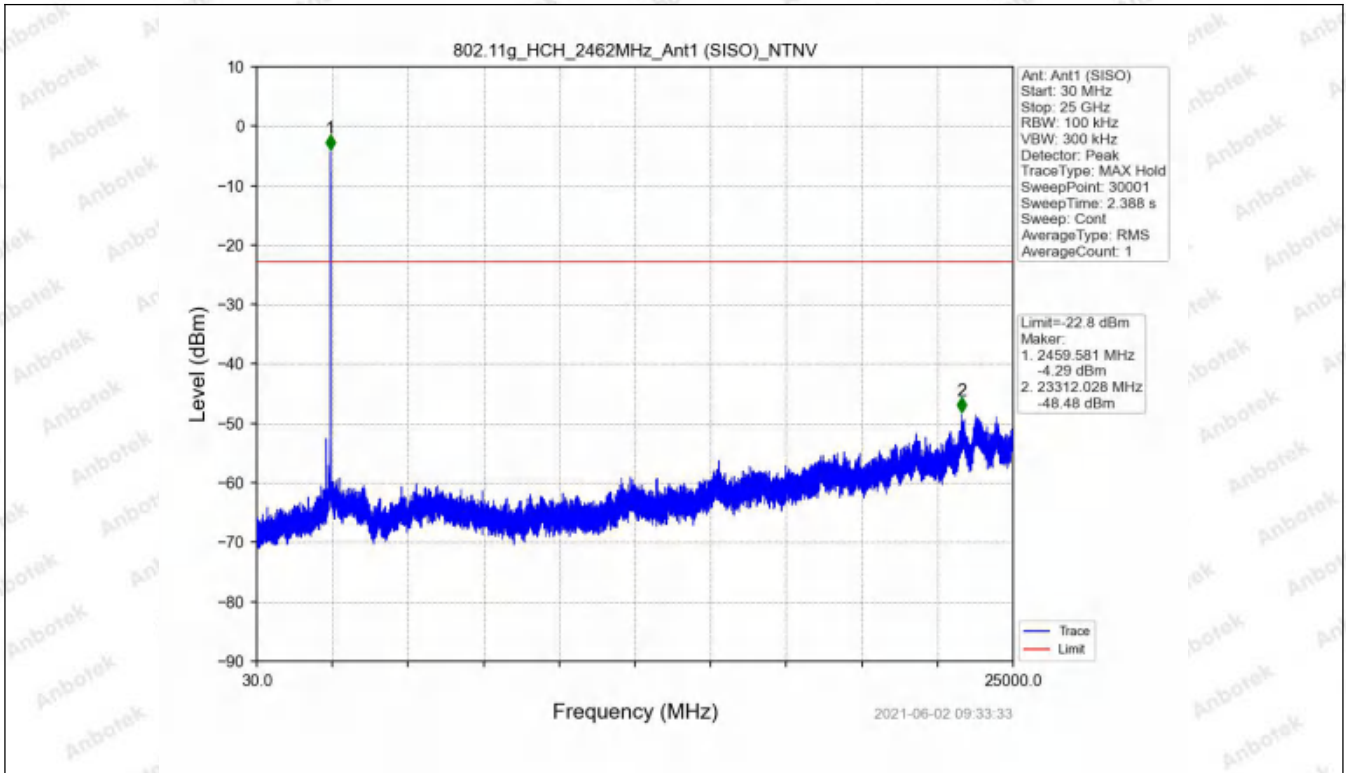




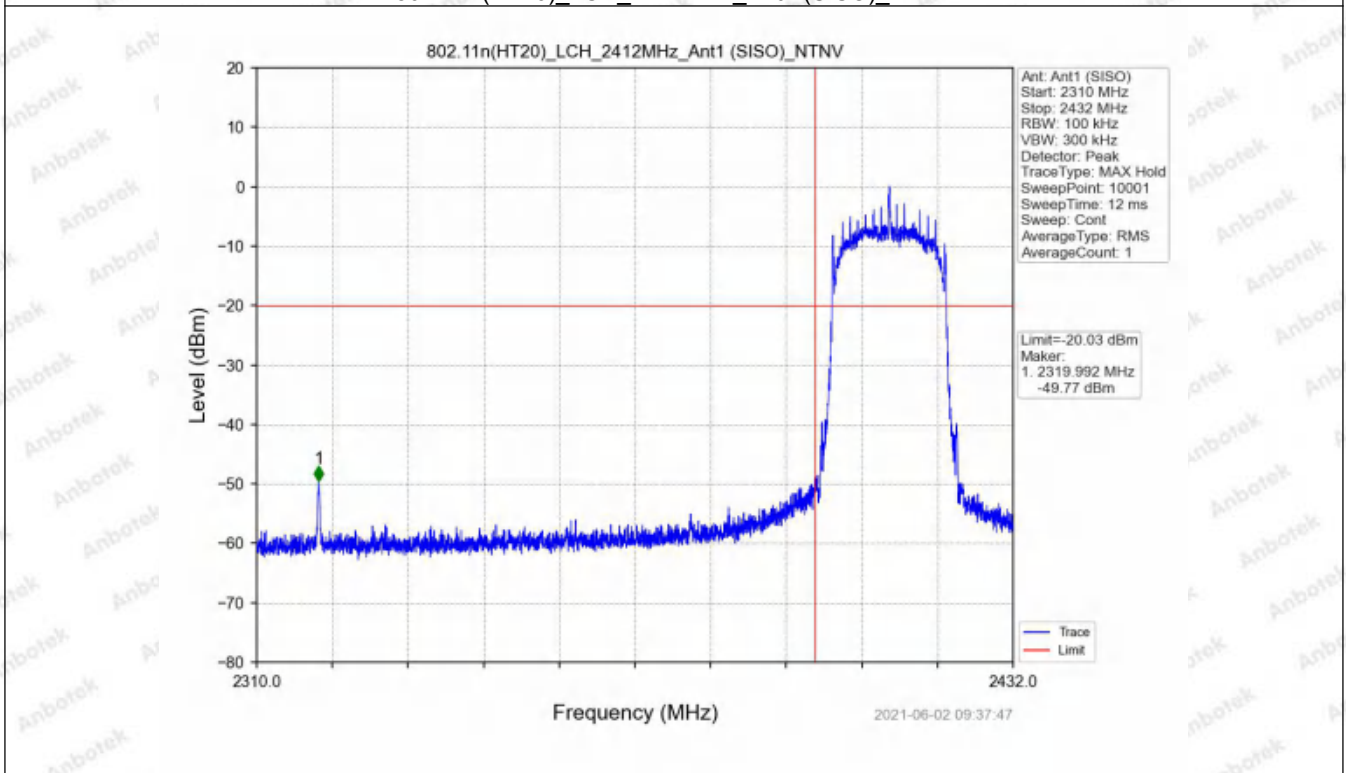
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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

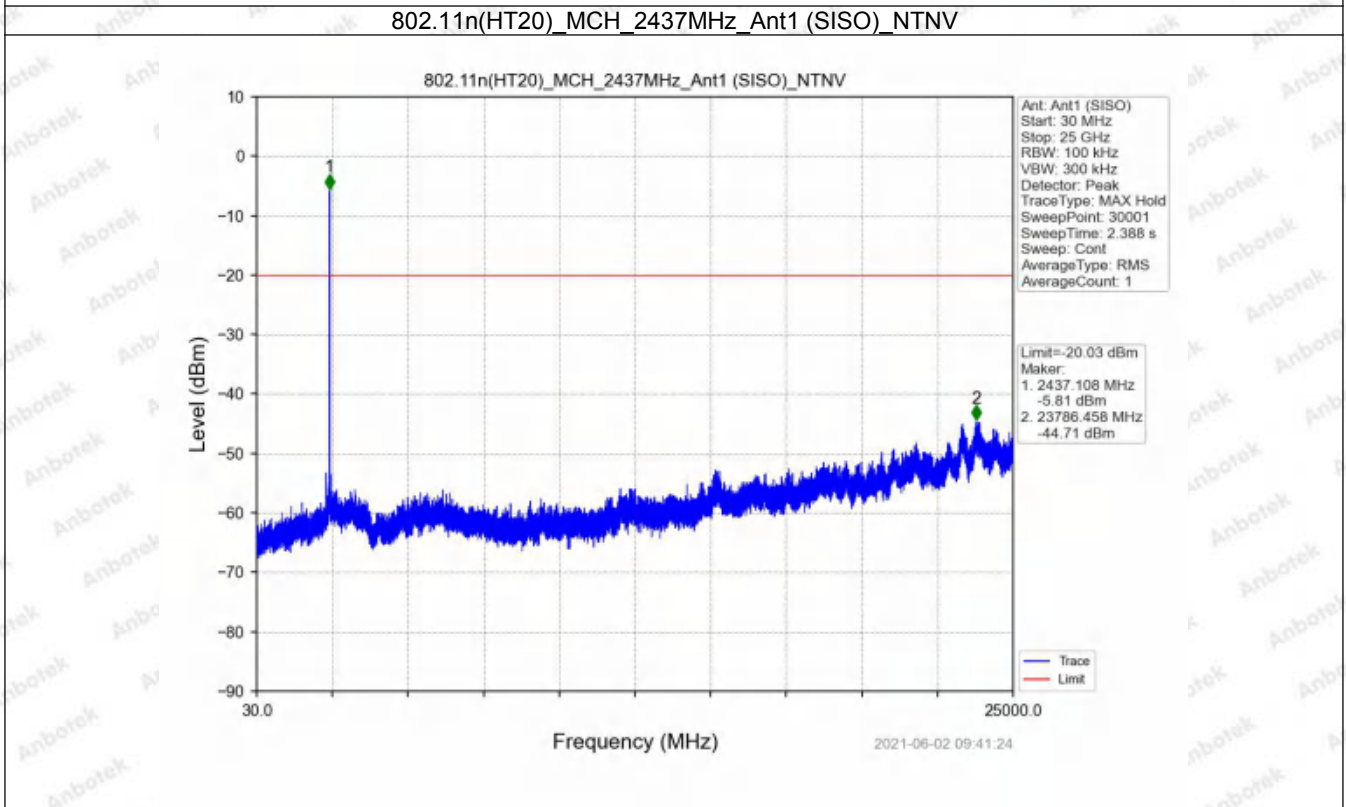
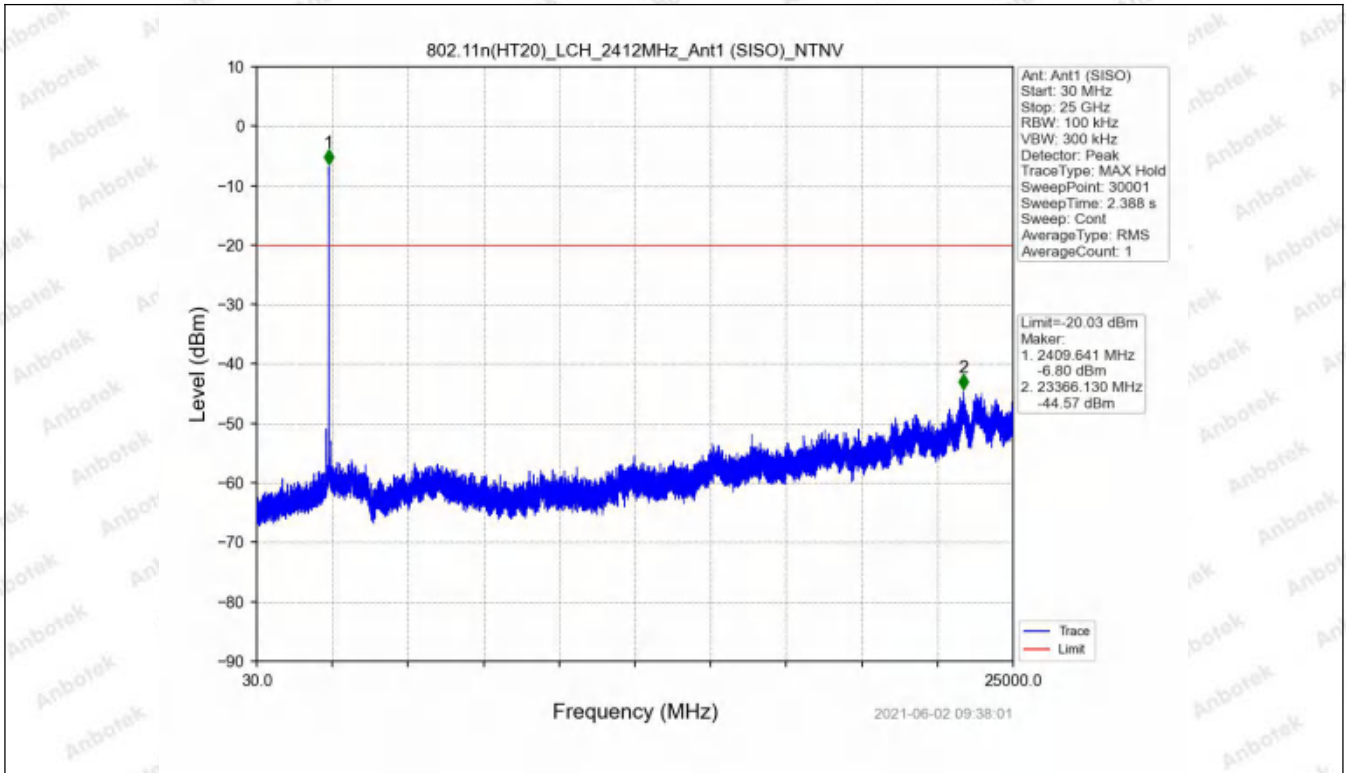


802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

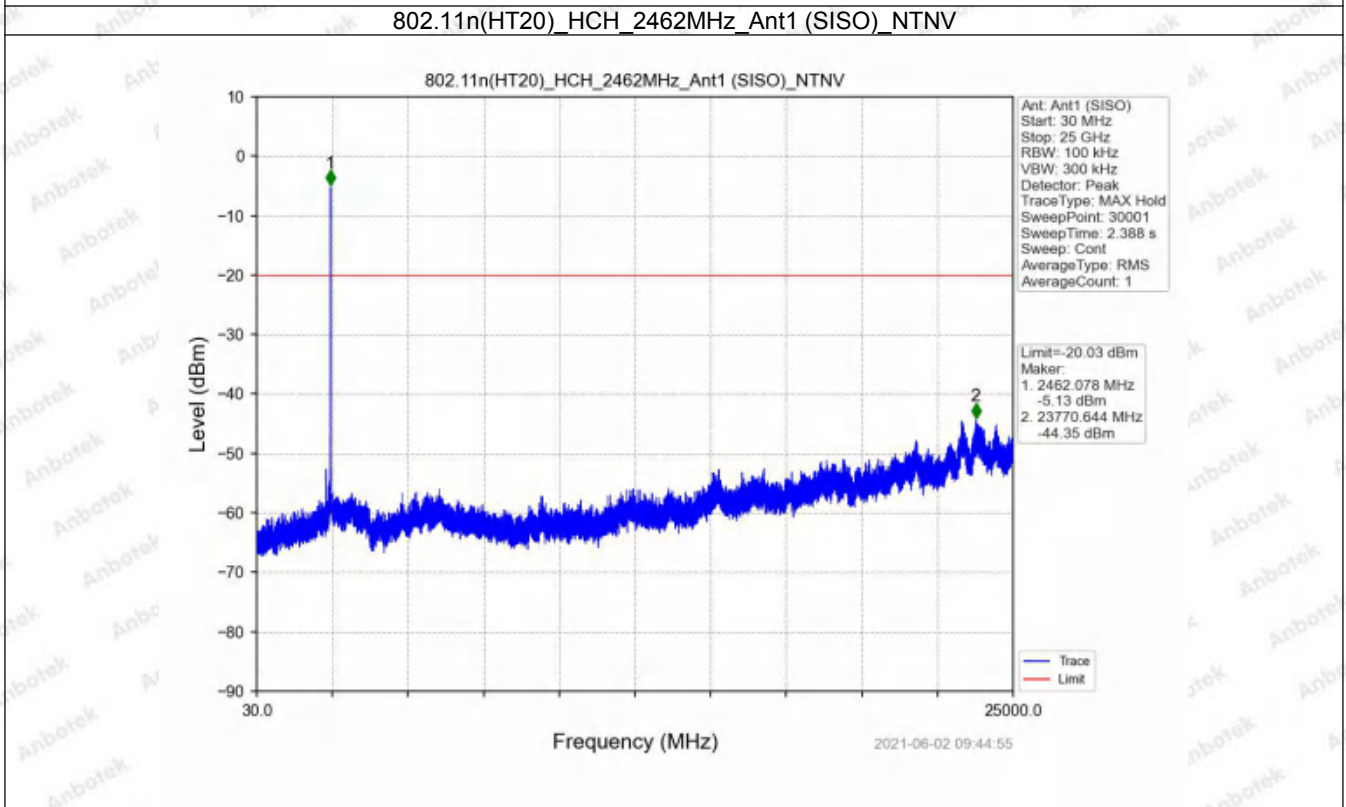
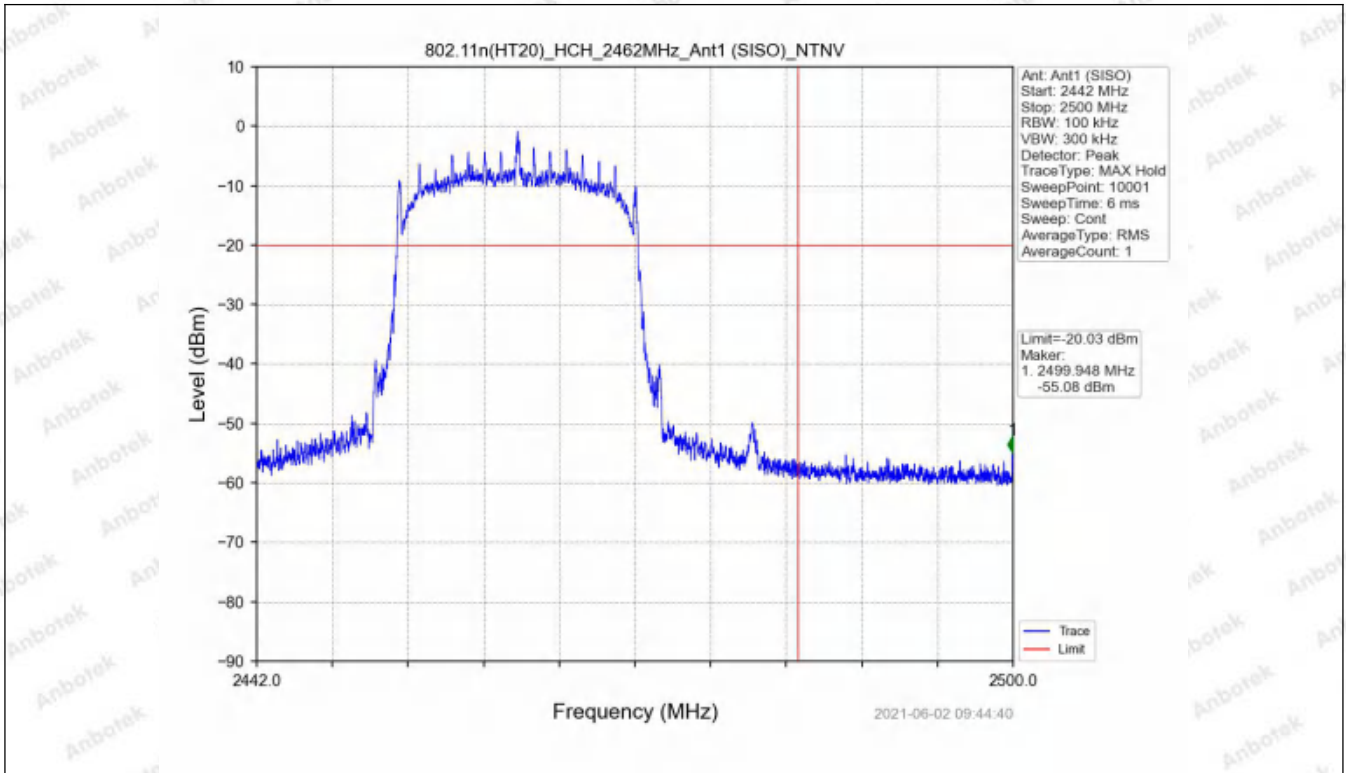


802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

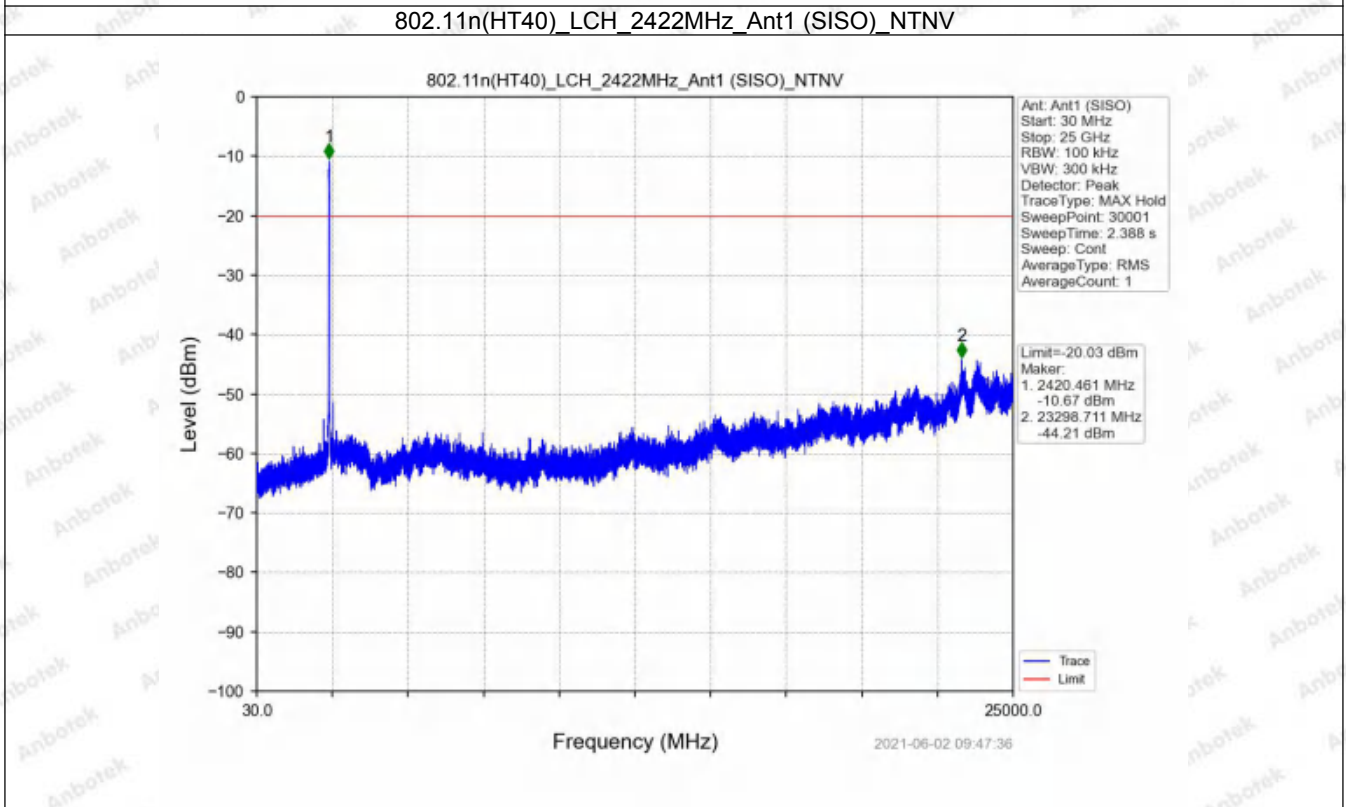
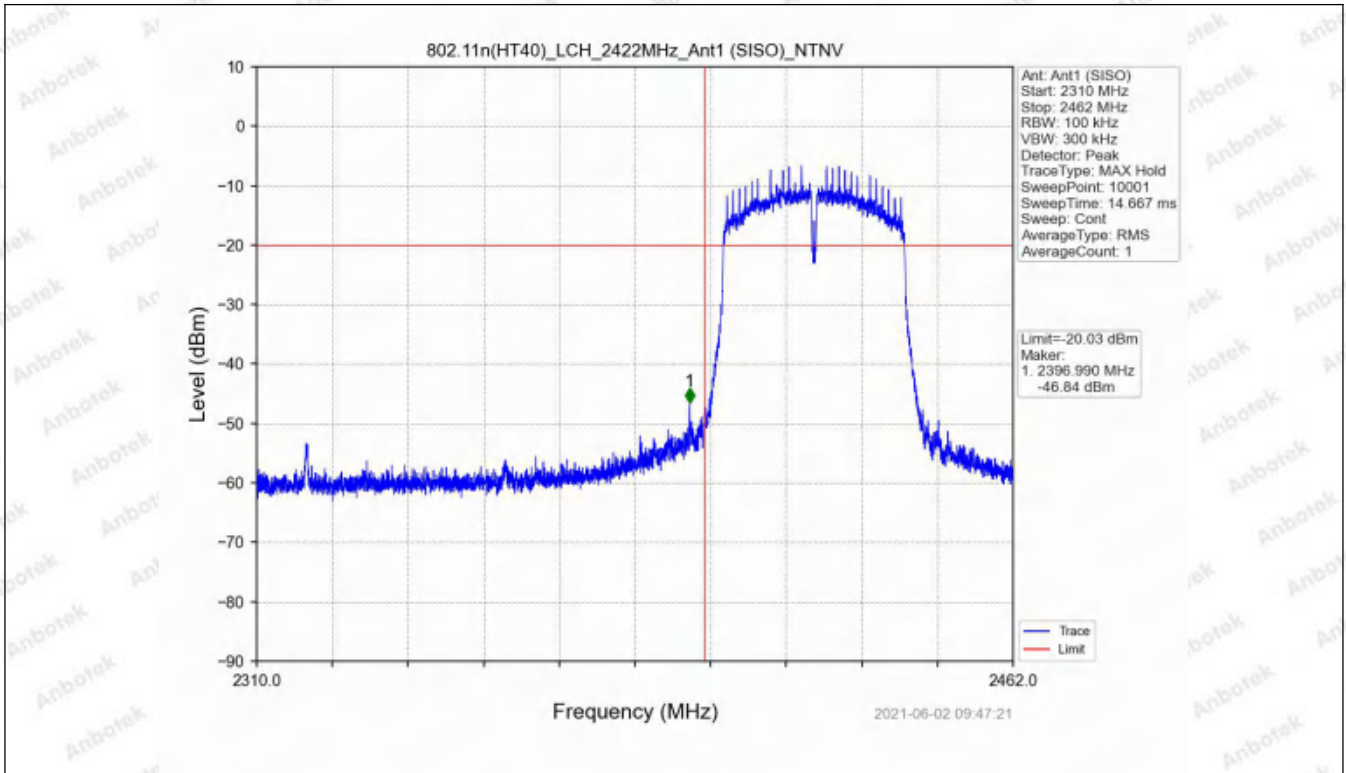




802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

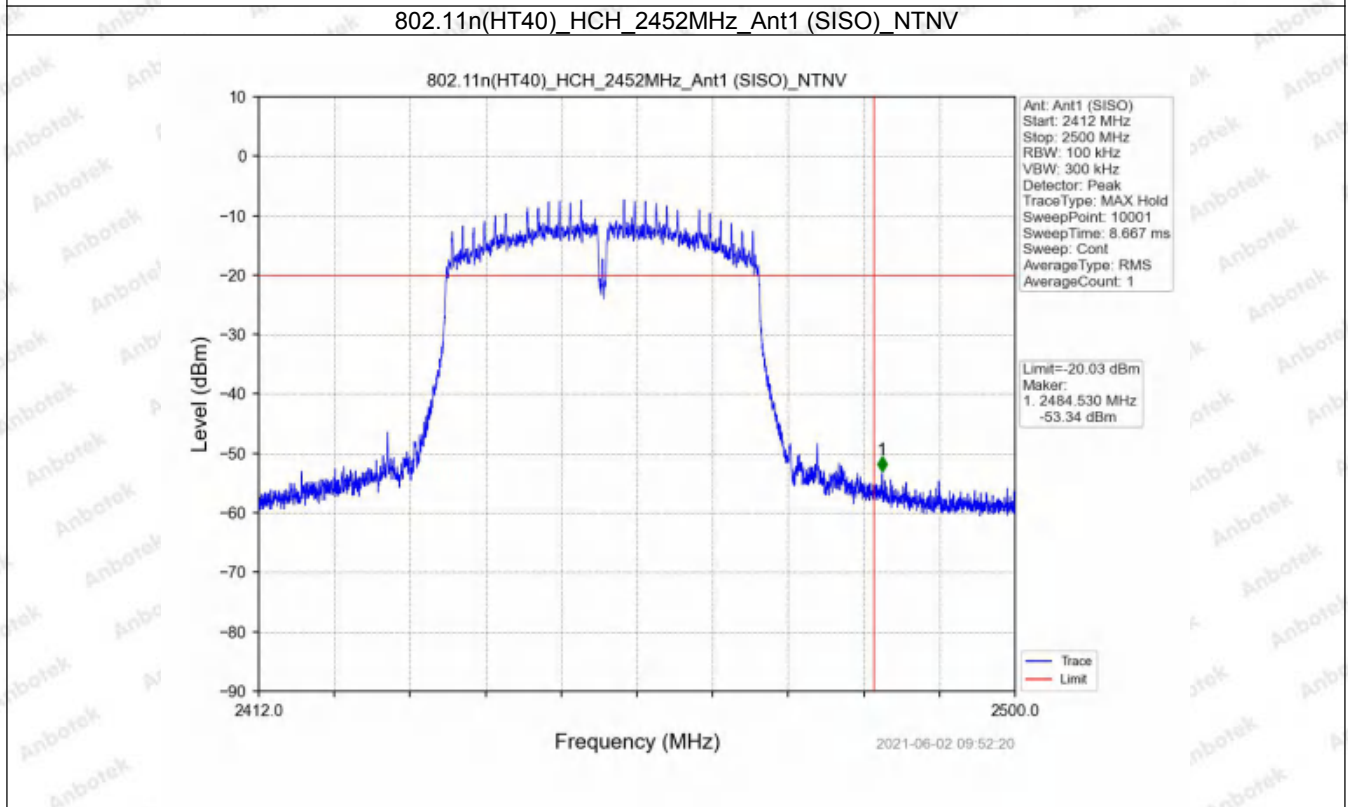
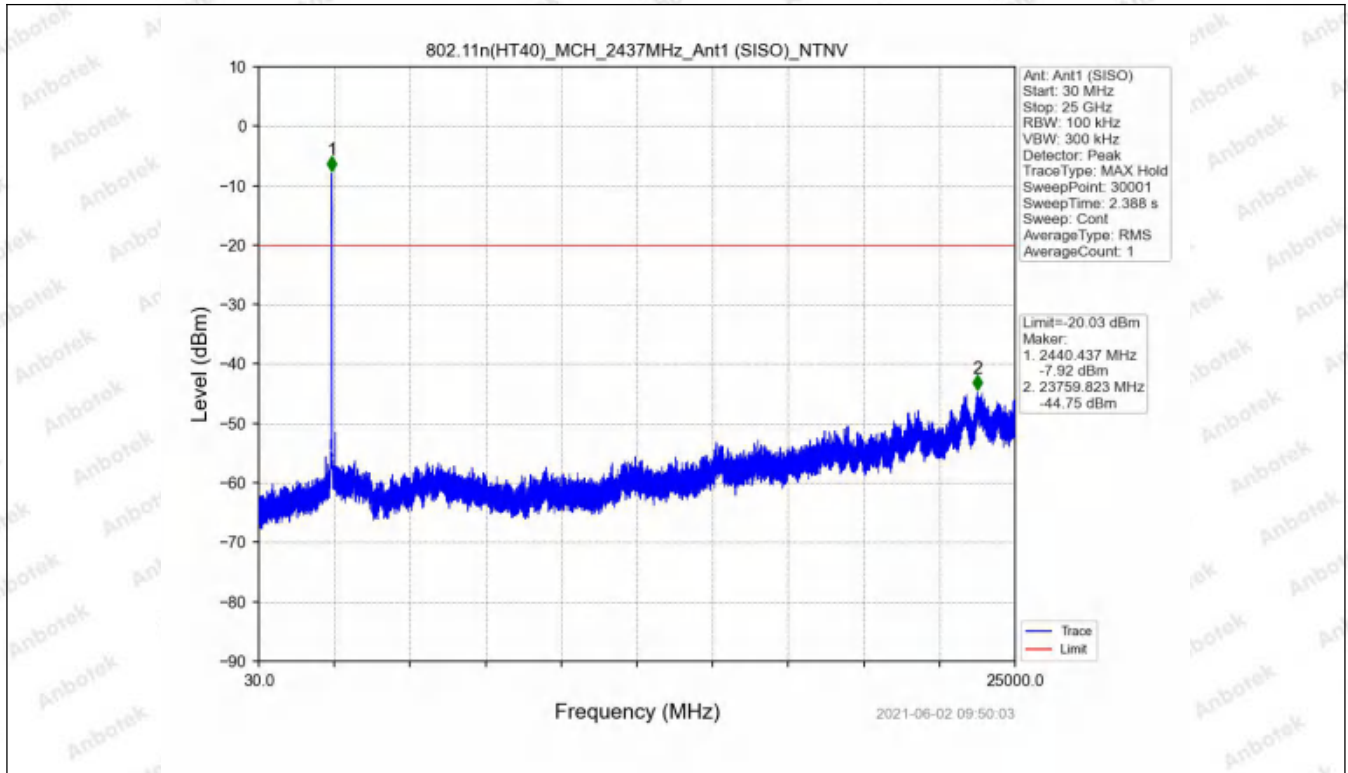


802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

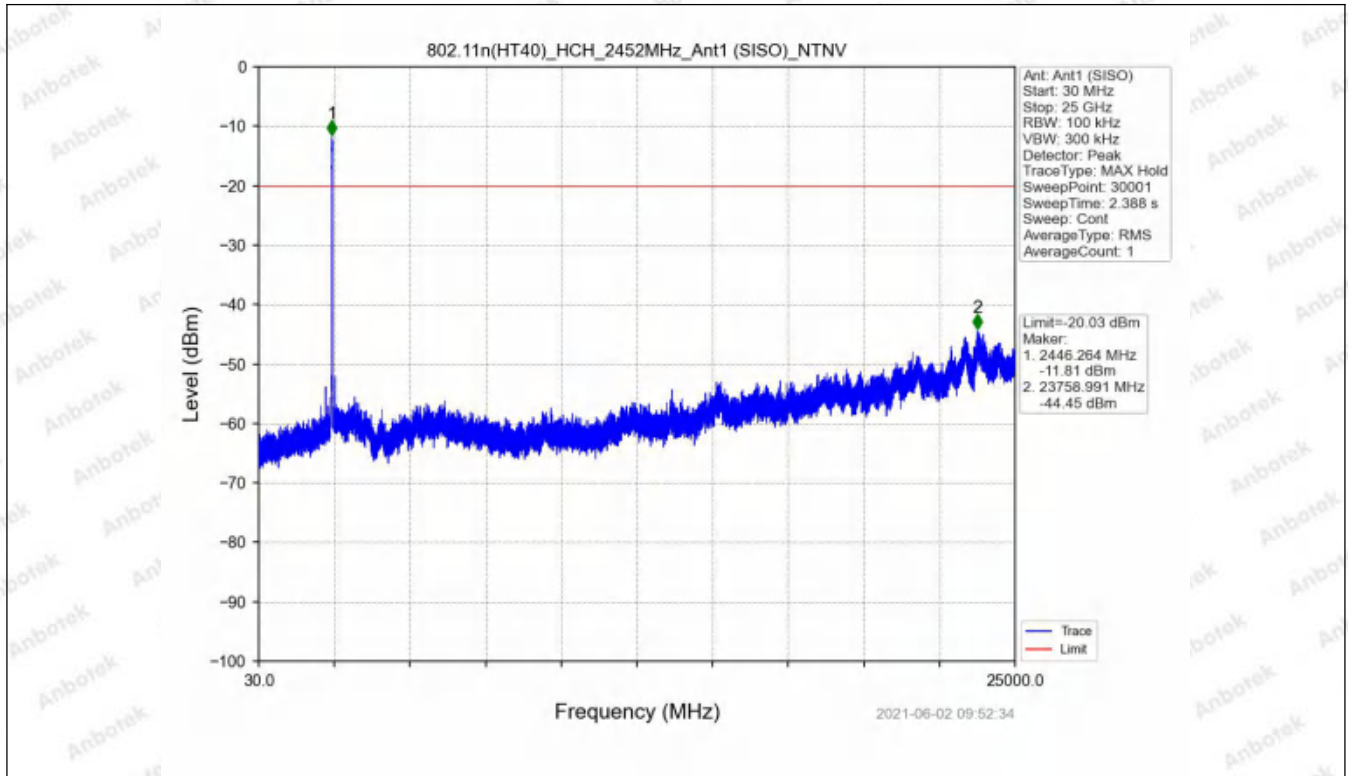


802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV





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



---End---