

Appendix Test Data

Report No.:	18220WC10100701	Test Date:	2021.6.1
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.3°C	Relative Humidity:	55 %
Pressure:	1012 hPa		

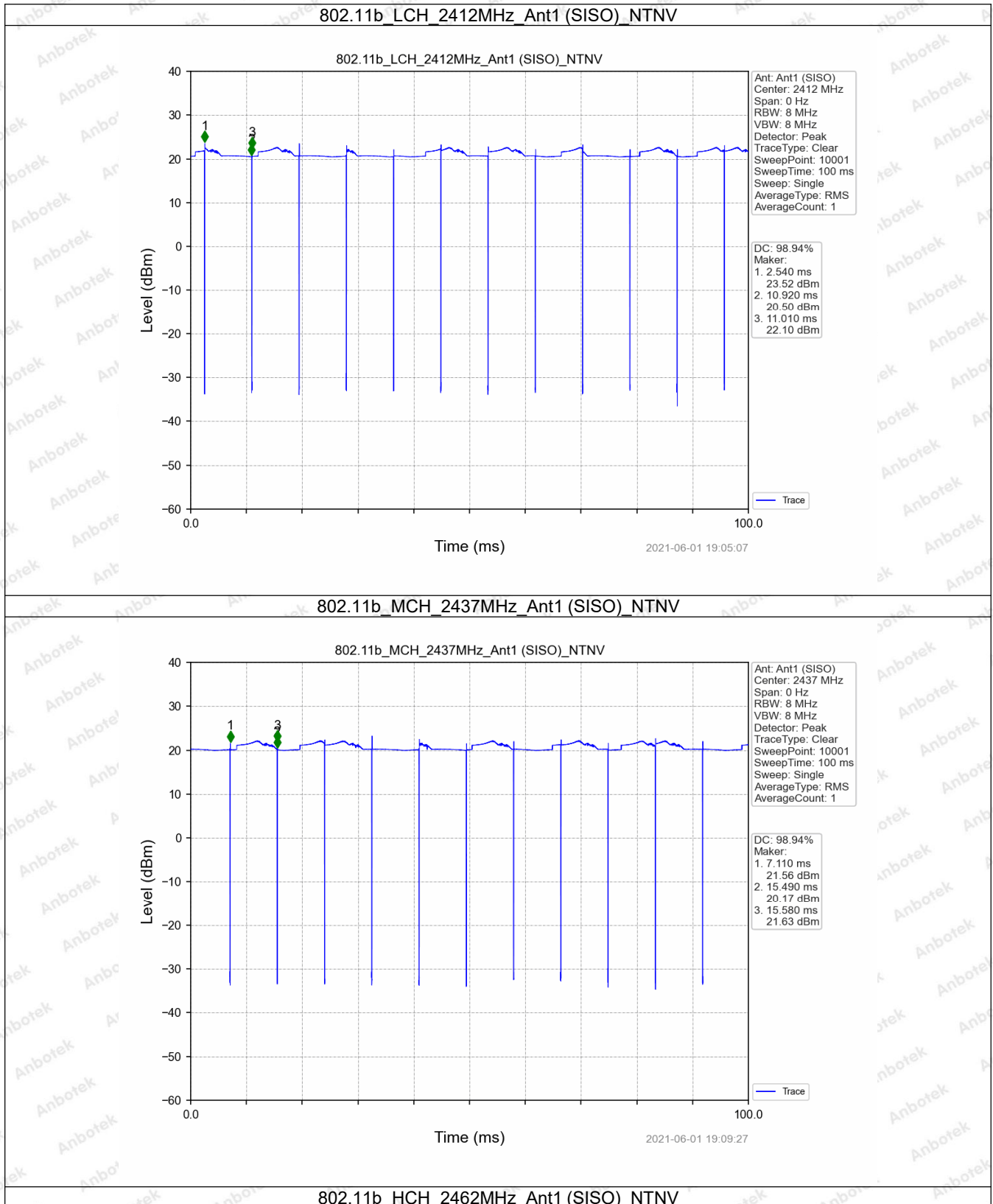
1. Duty Cycle

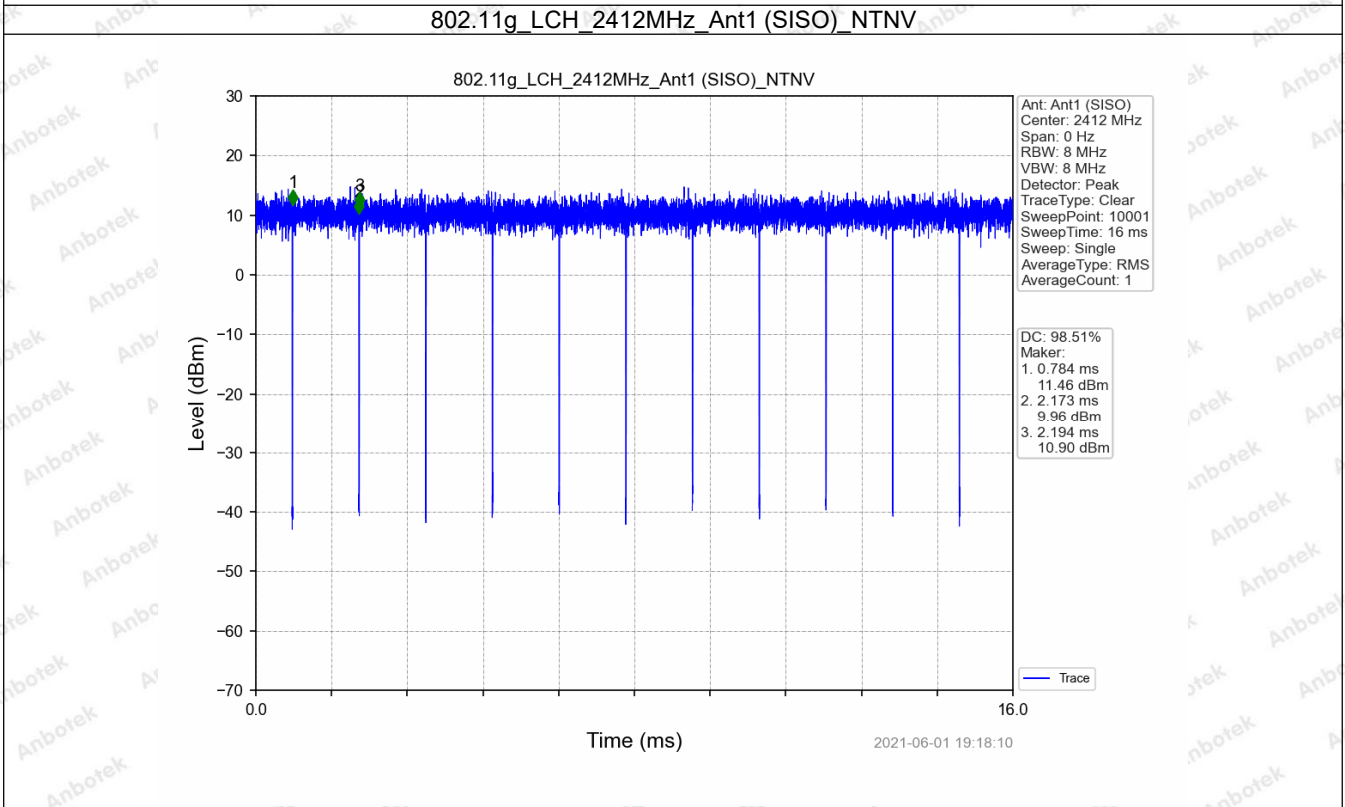
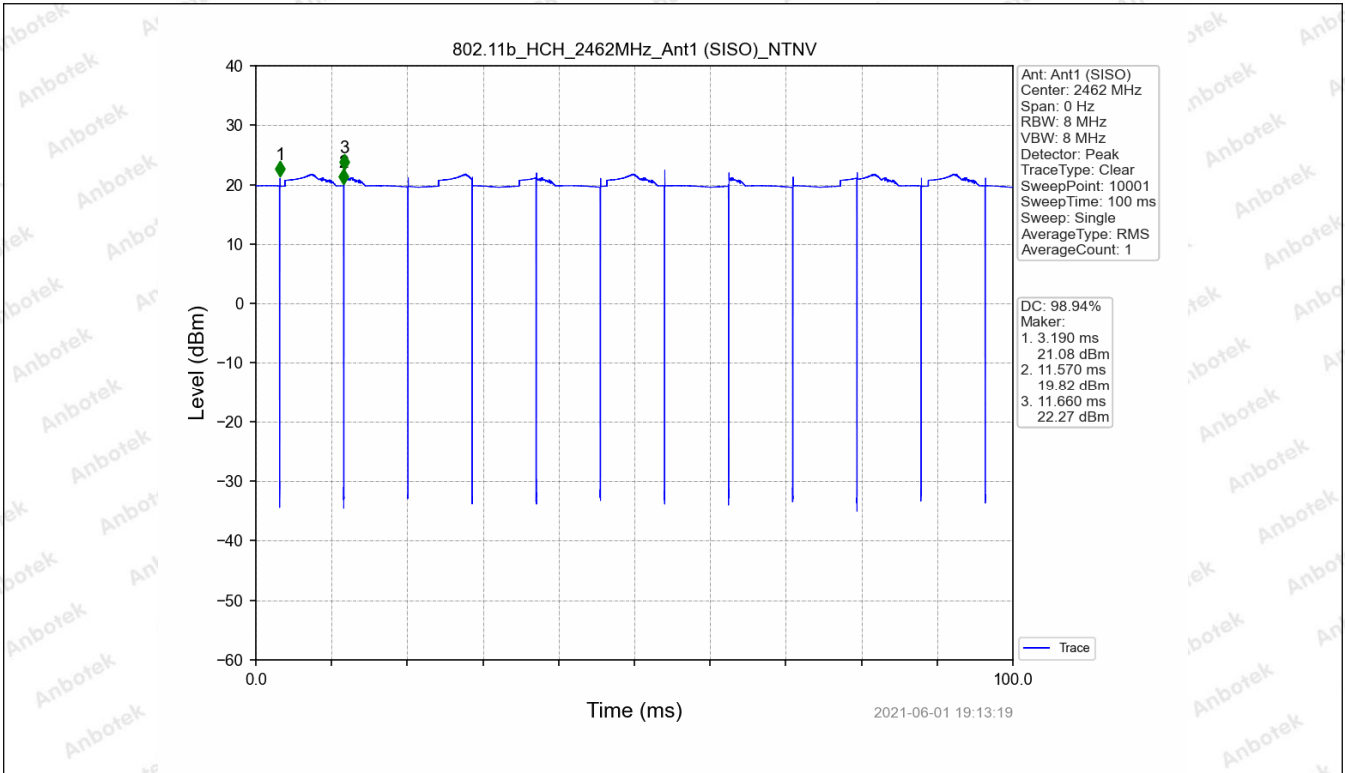
1.1 Ant1

1.1.1 Test Result

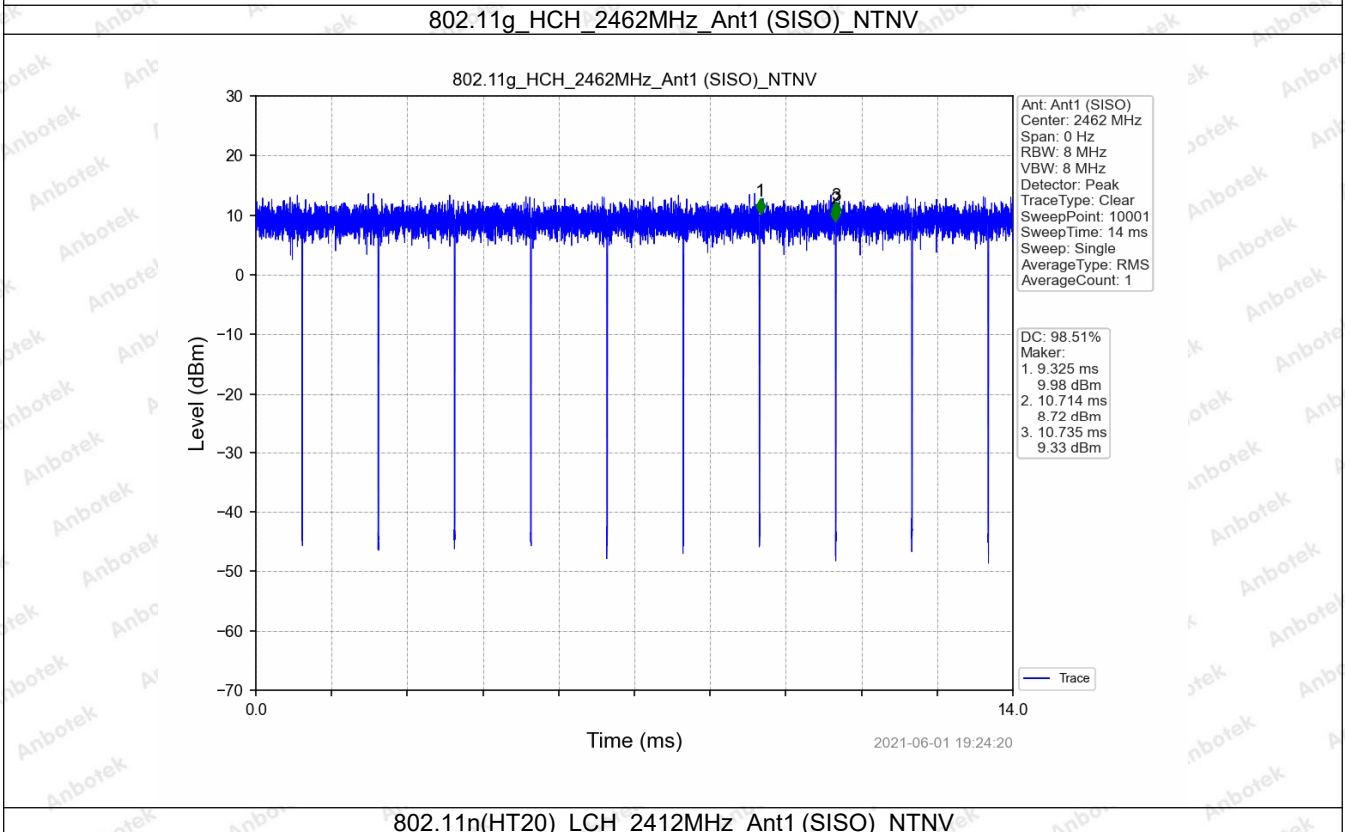
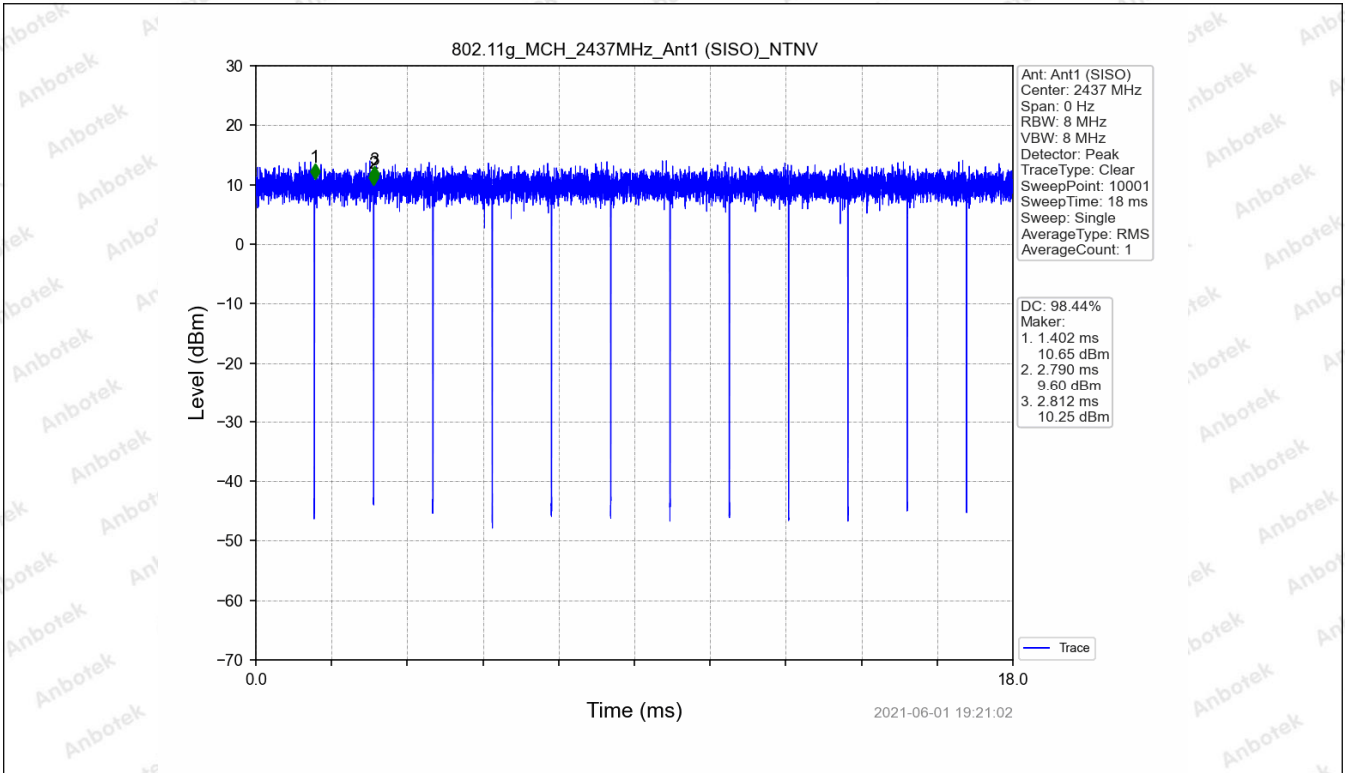
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.38	8.47	98.94	0.05	0.00
		2437	/	/	8.38	8.47	98.94	0.05	0.00
		2462	/	/	8.38	8.47	98.94	0.05	0.12
802.11g	SISO	2412	/	/	1.39	1.41	98.51	0.07	0.00
		2437	/	/	1.39	1.41	98.44	0.07	0.13
		2462	/	/	1.39	1.41	98.51	0.07	0.10
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	0.10
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

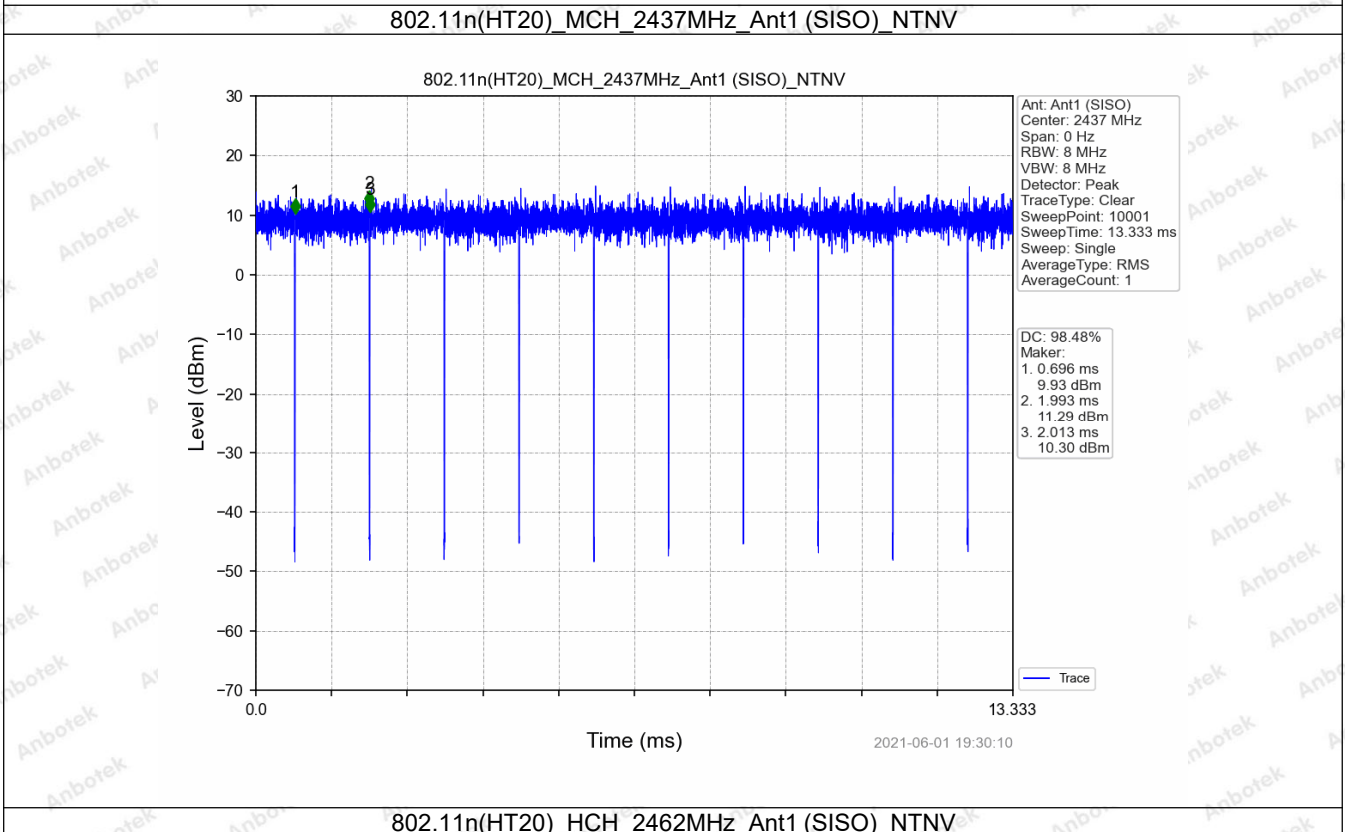
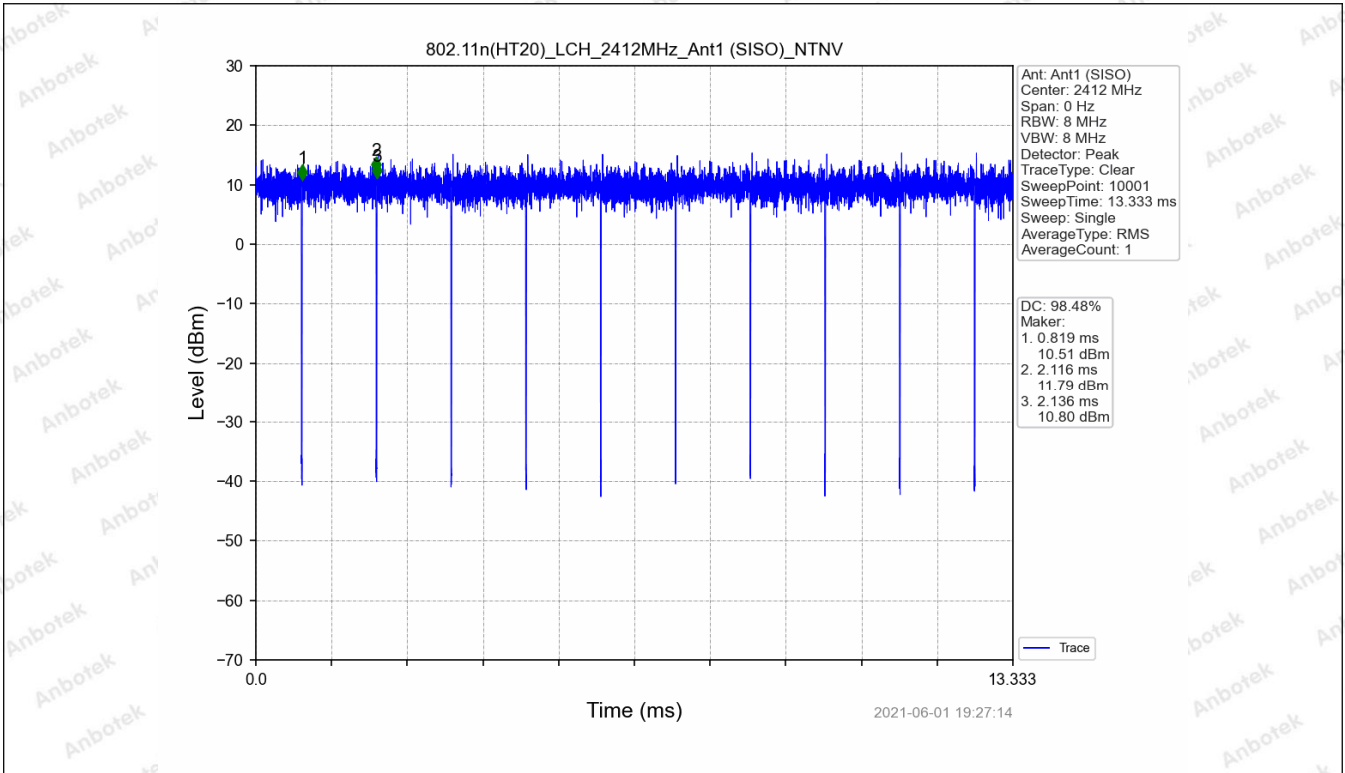




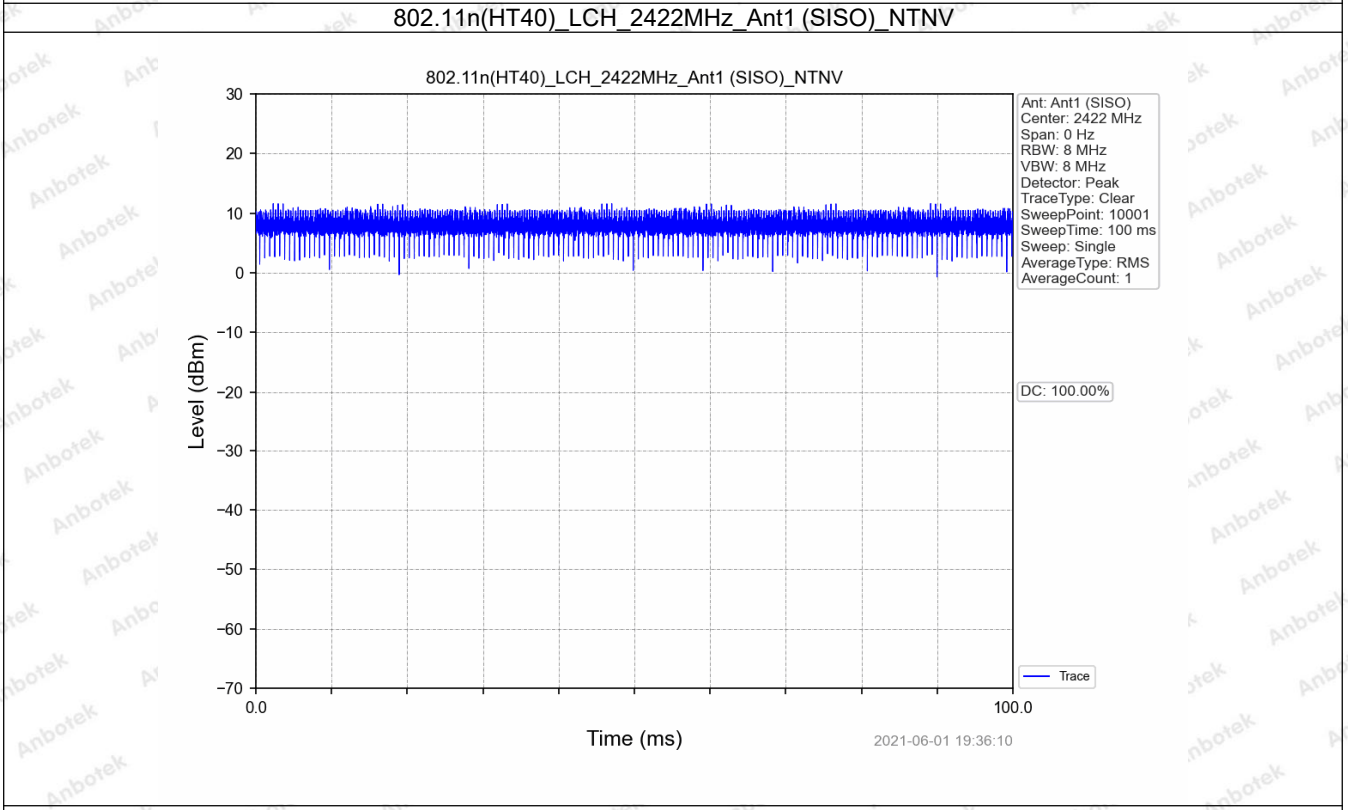
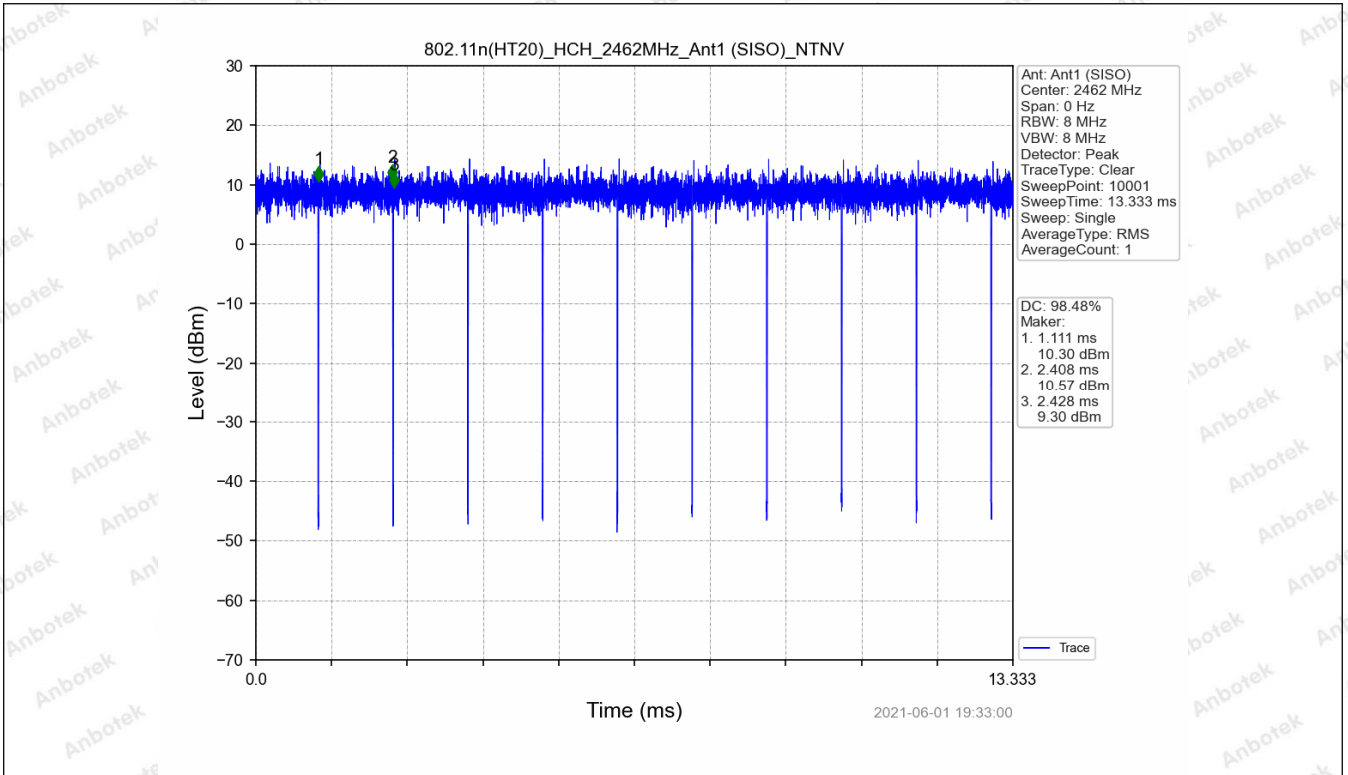
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



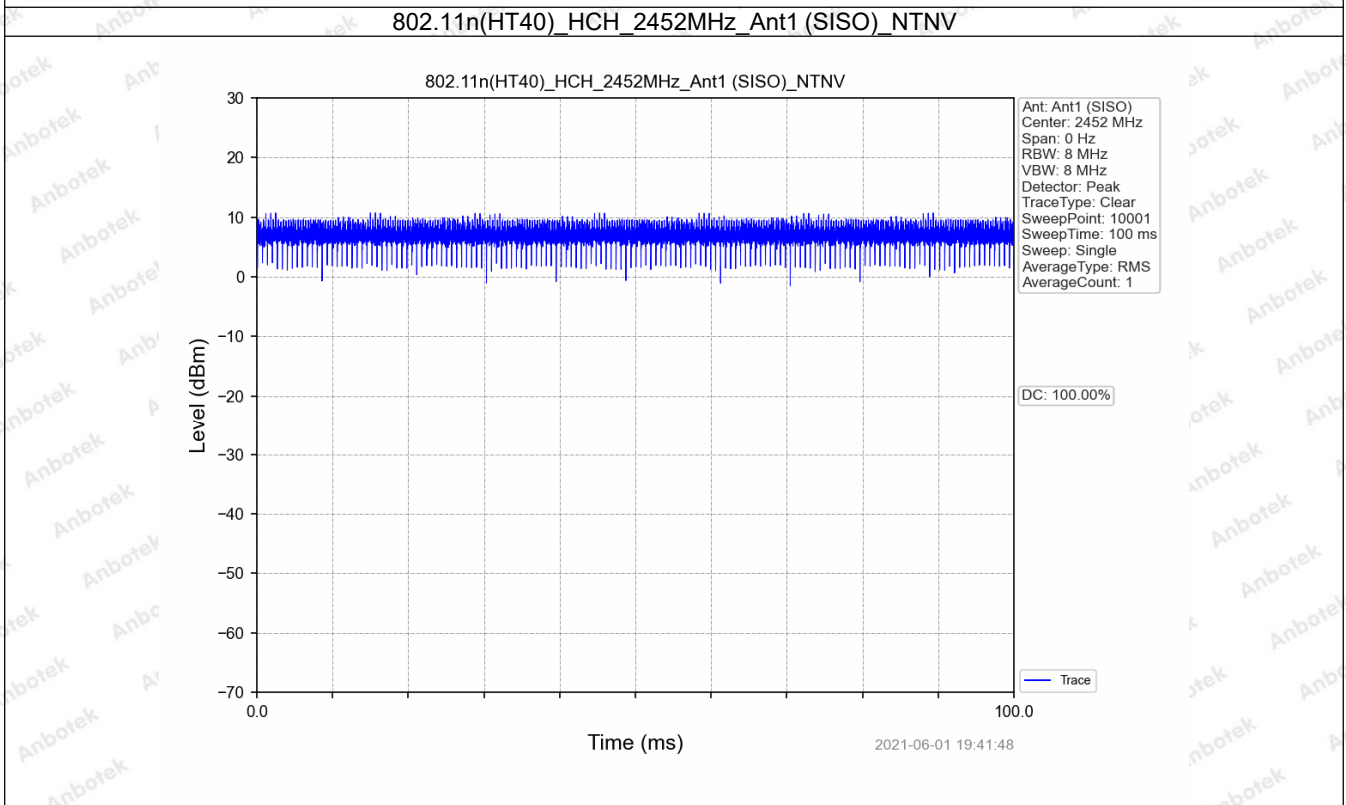
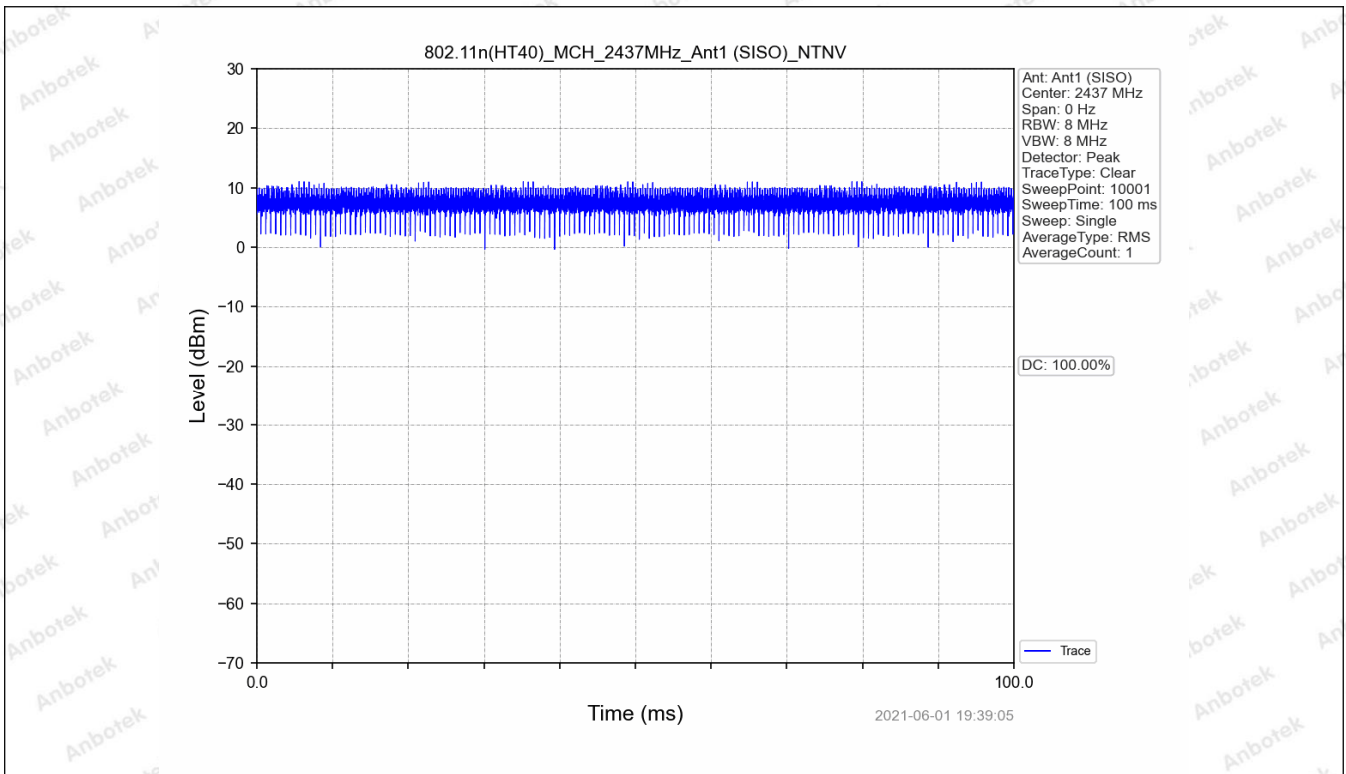
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

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2. Bandwidth

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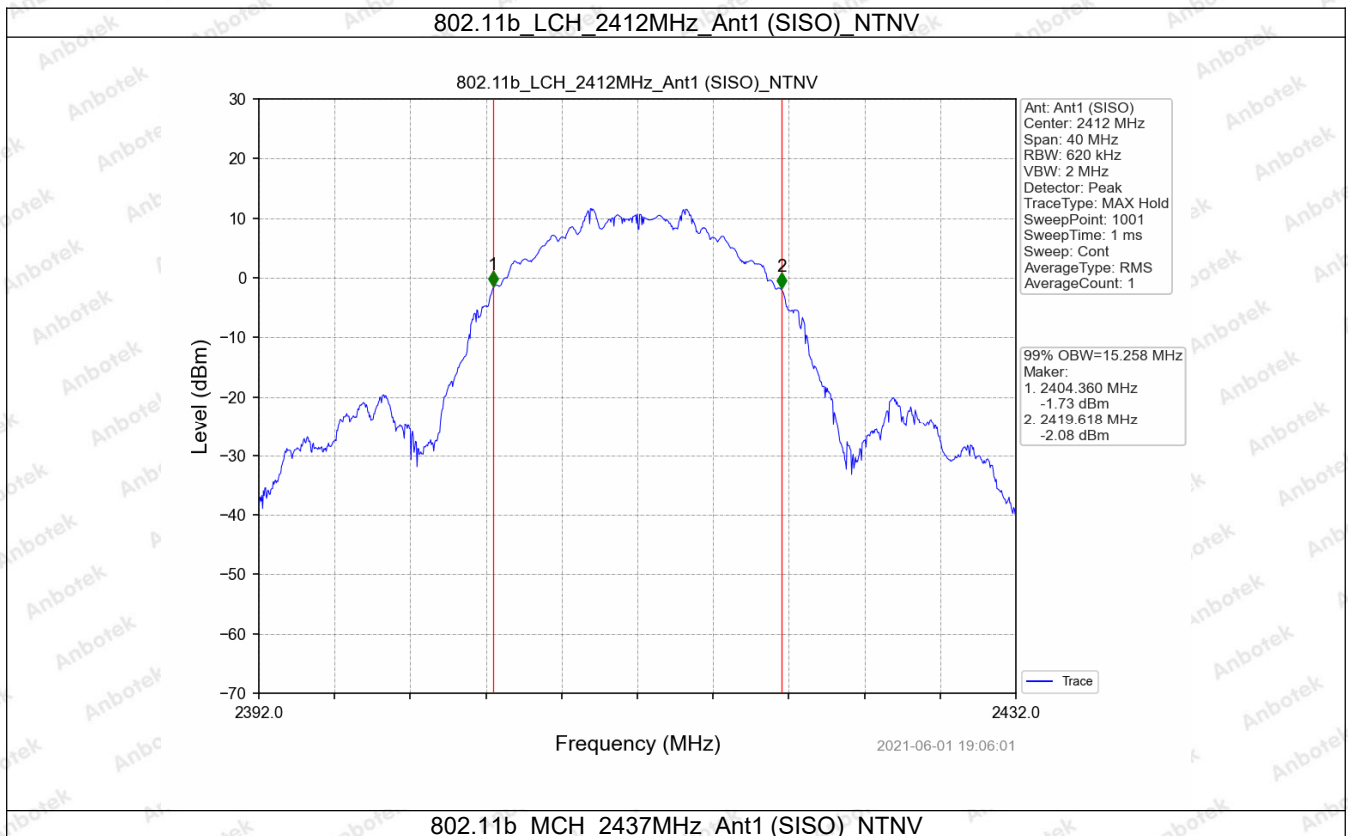
2.1 OBW

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	/	/	15.258	/	Note1
		2437	/	/	15.277	/	Note1
		2462	/	/	15.291	/	Note1
802.11g	SISO	2412	/	/	17.554	/	Note1
		2437	/	/	17.529	/	Note1
		2462	/	/	17.544	/	Note1
802.11n (HT20)	SISO	2412	/	/	18.431	/	Note1
		2437	/	/	18.432	/	Note1
		2462	/	/	18.442	/	Note1
802.11n (HT40)	SISO	2422	/	/	35.768	/	Note1
		2437	/	/	35.763	/	Note1
		2452	/	/	35.728	/	Note1

Note1: Only for Report Use

2.1.2 Test Graph

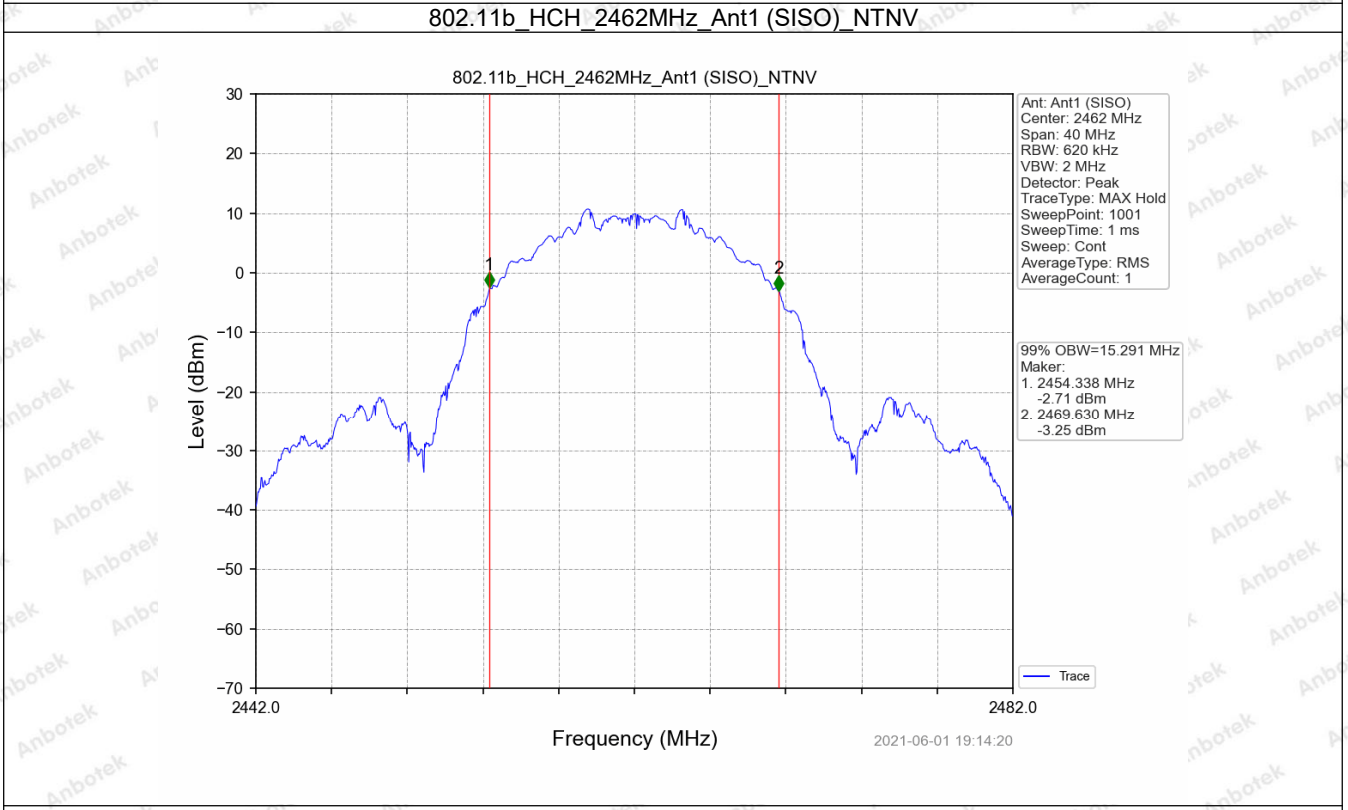
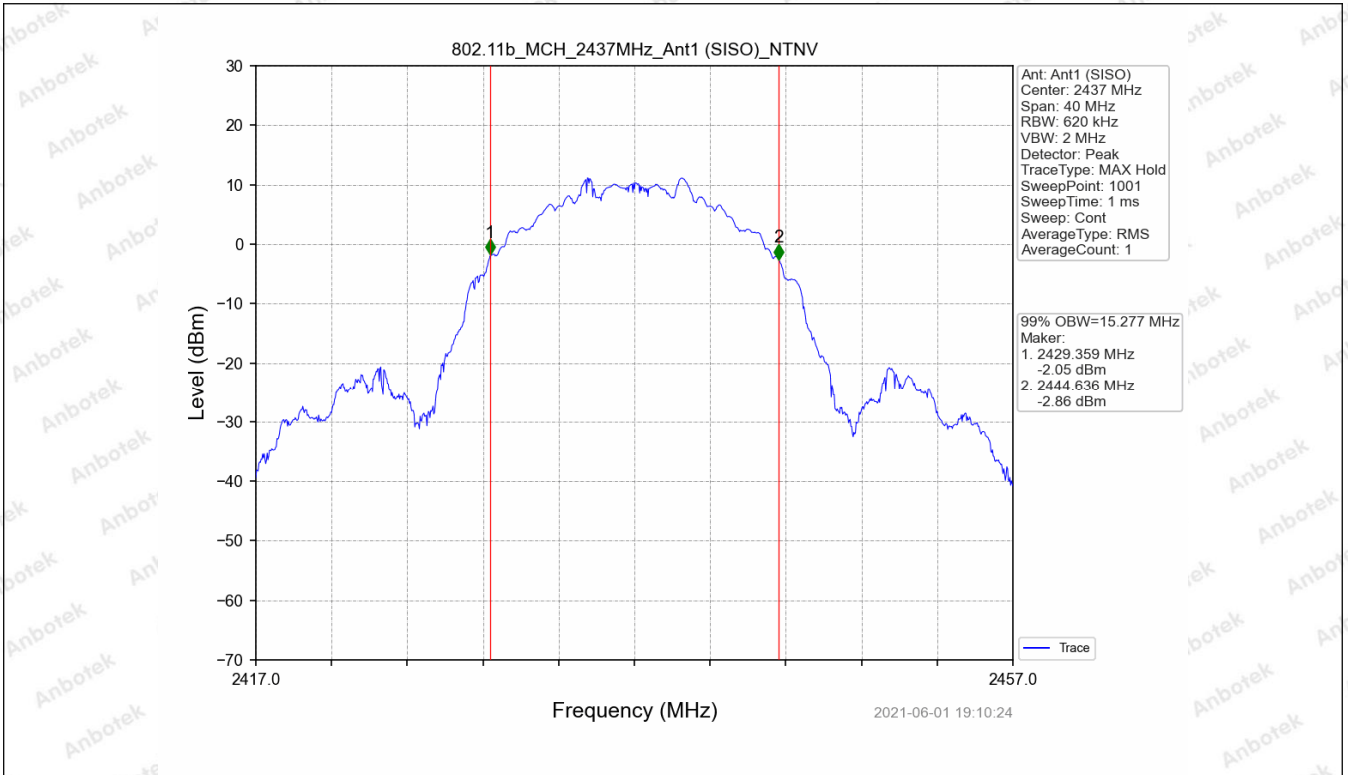


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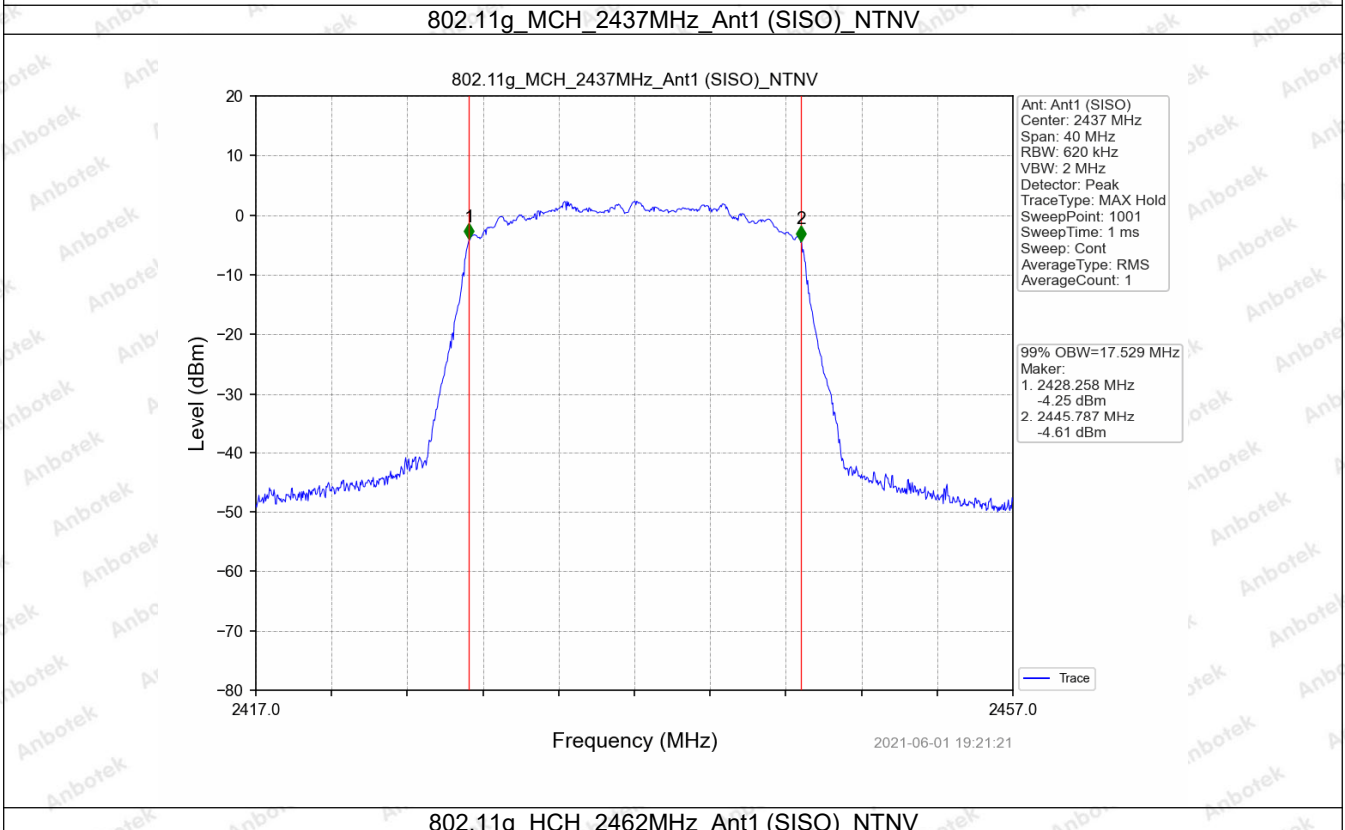
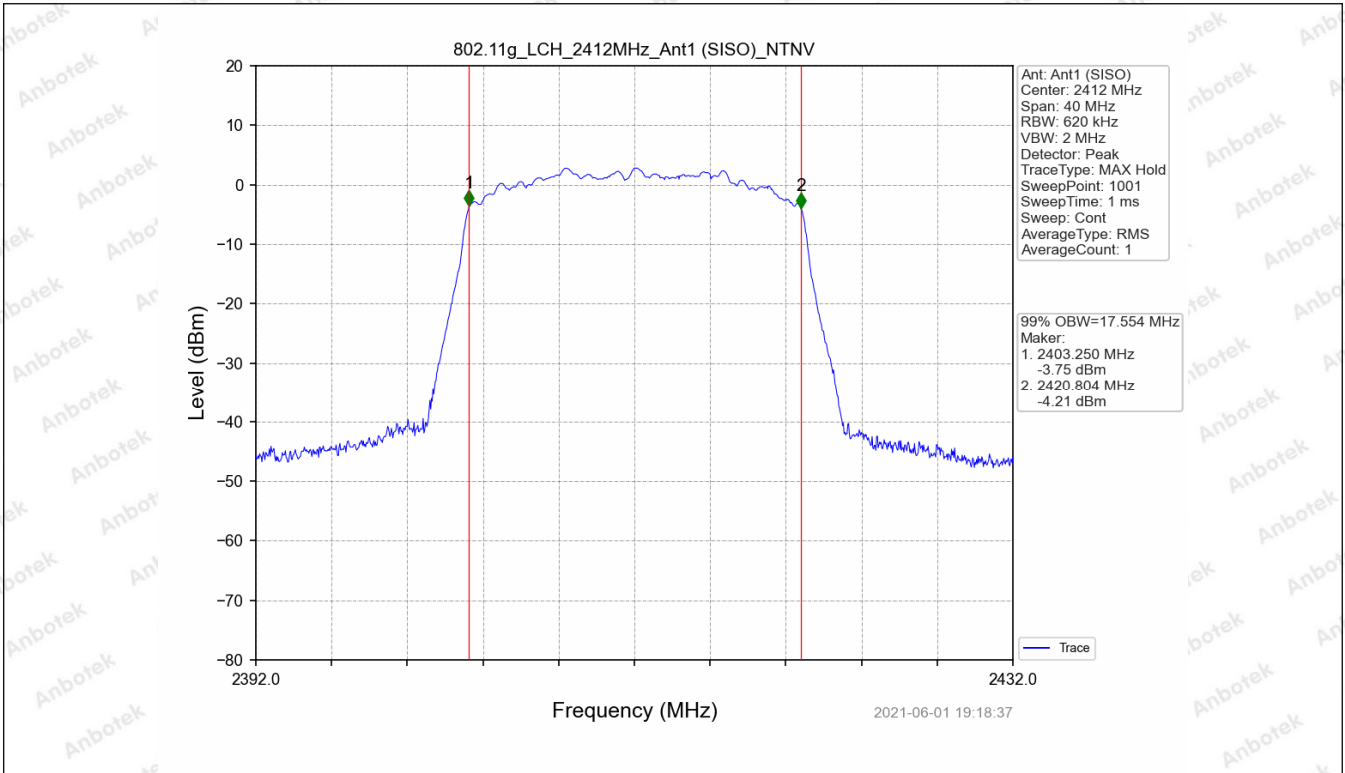
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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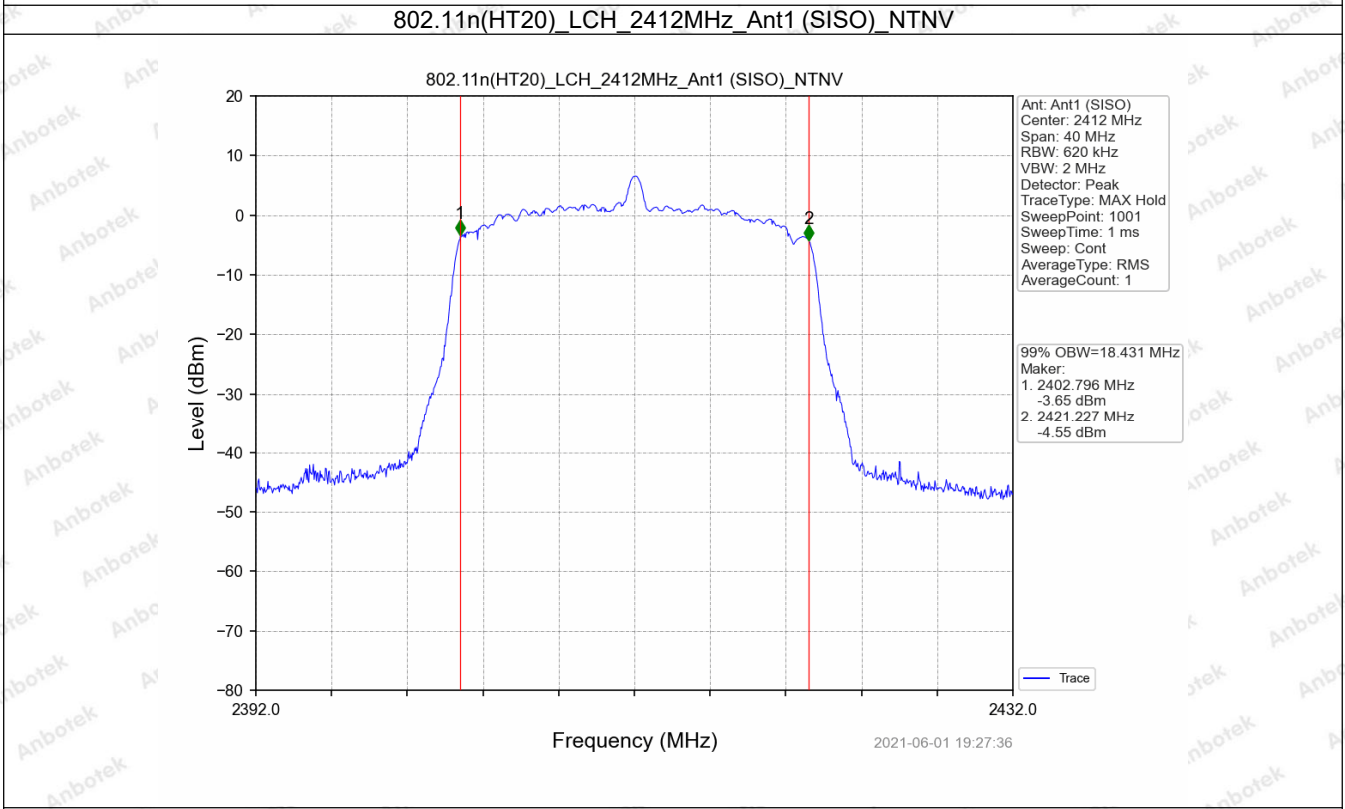
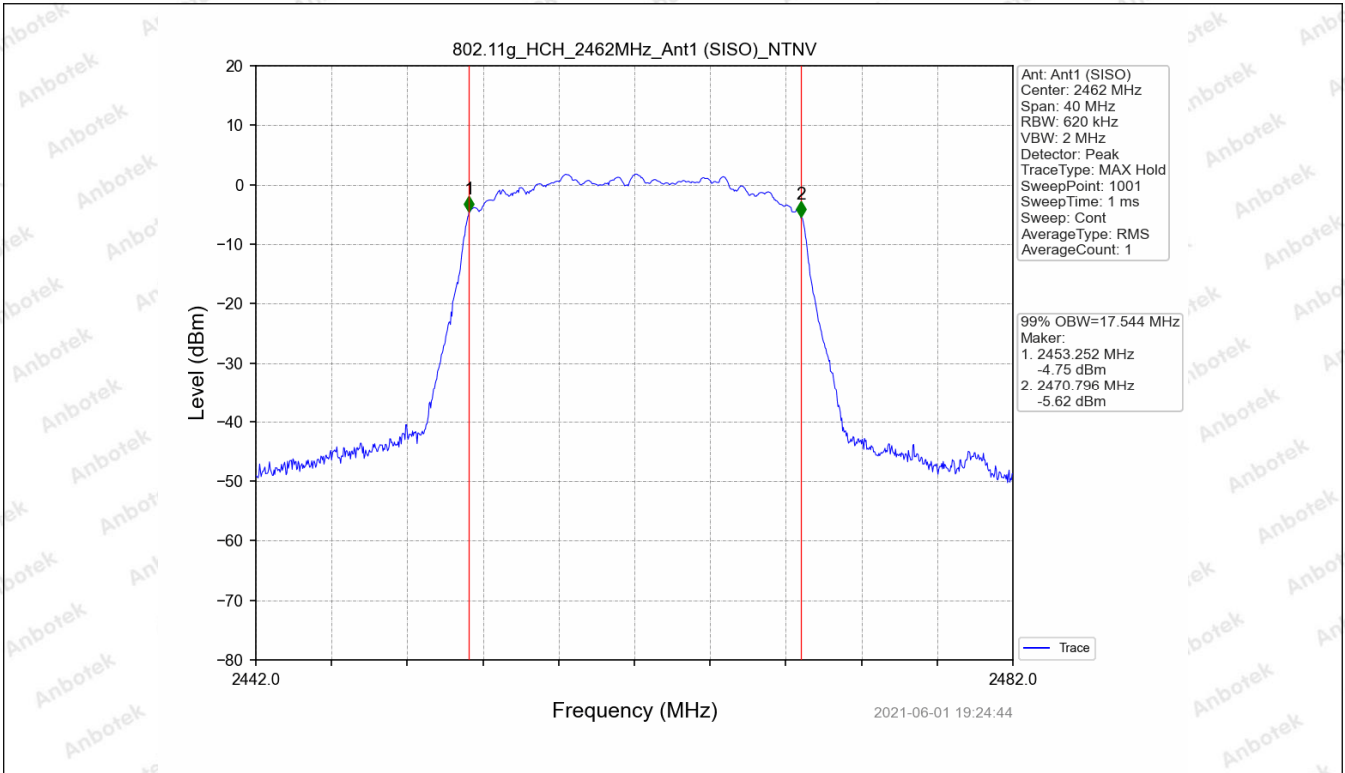
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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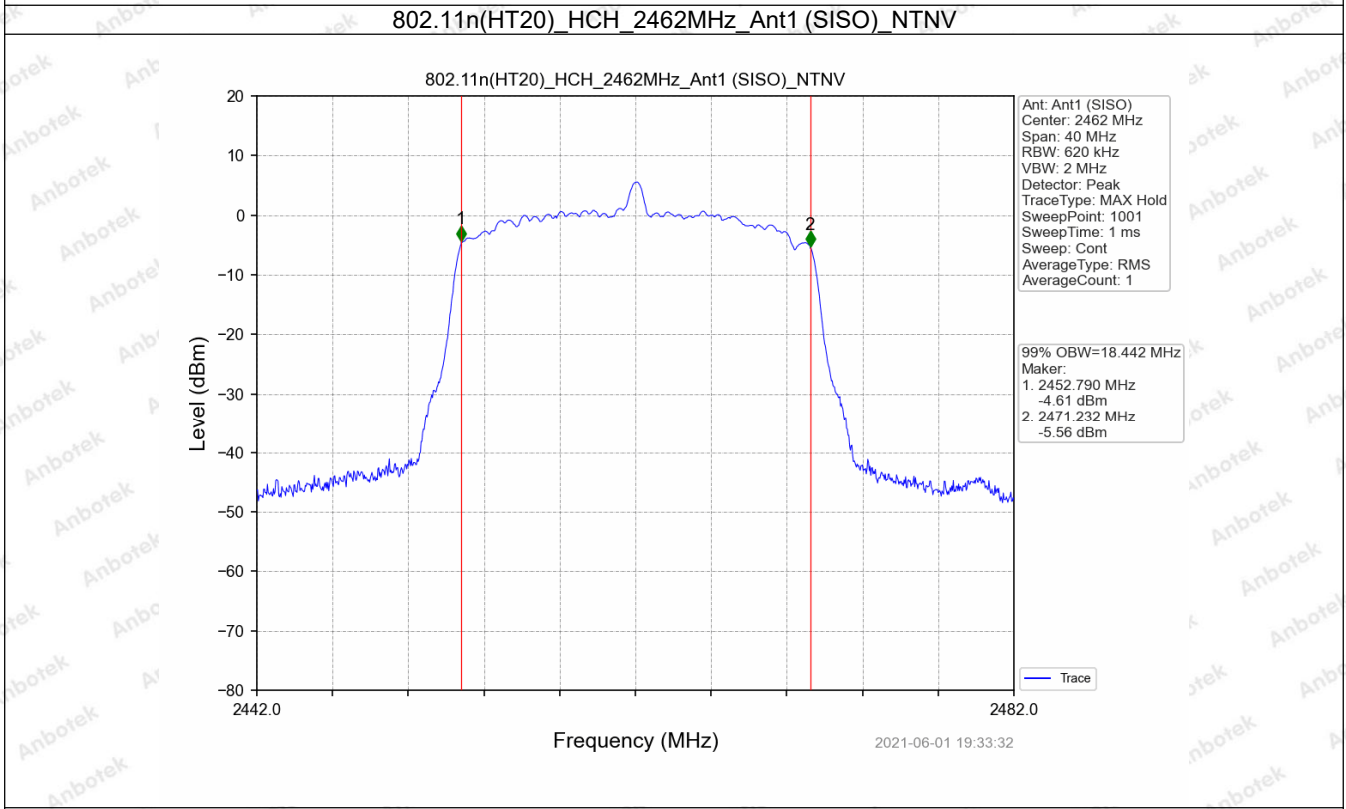
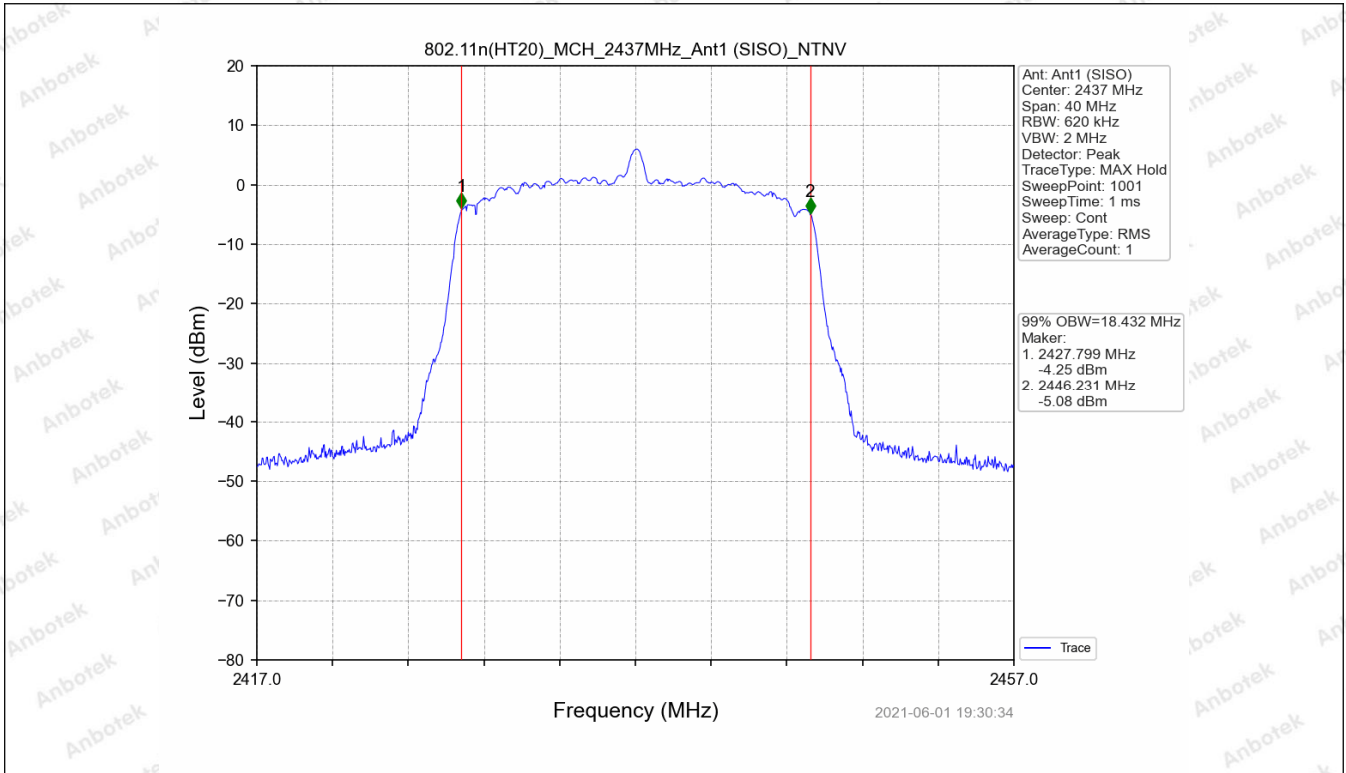
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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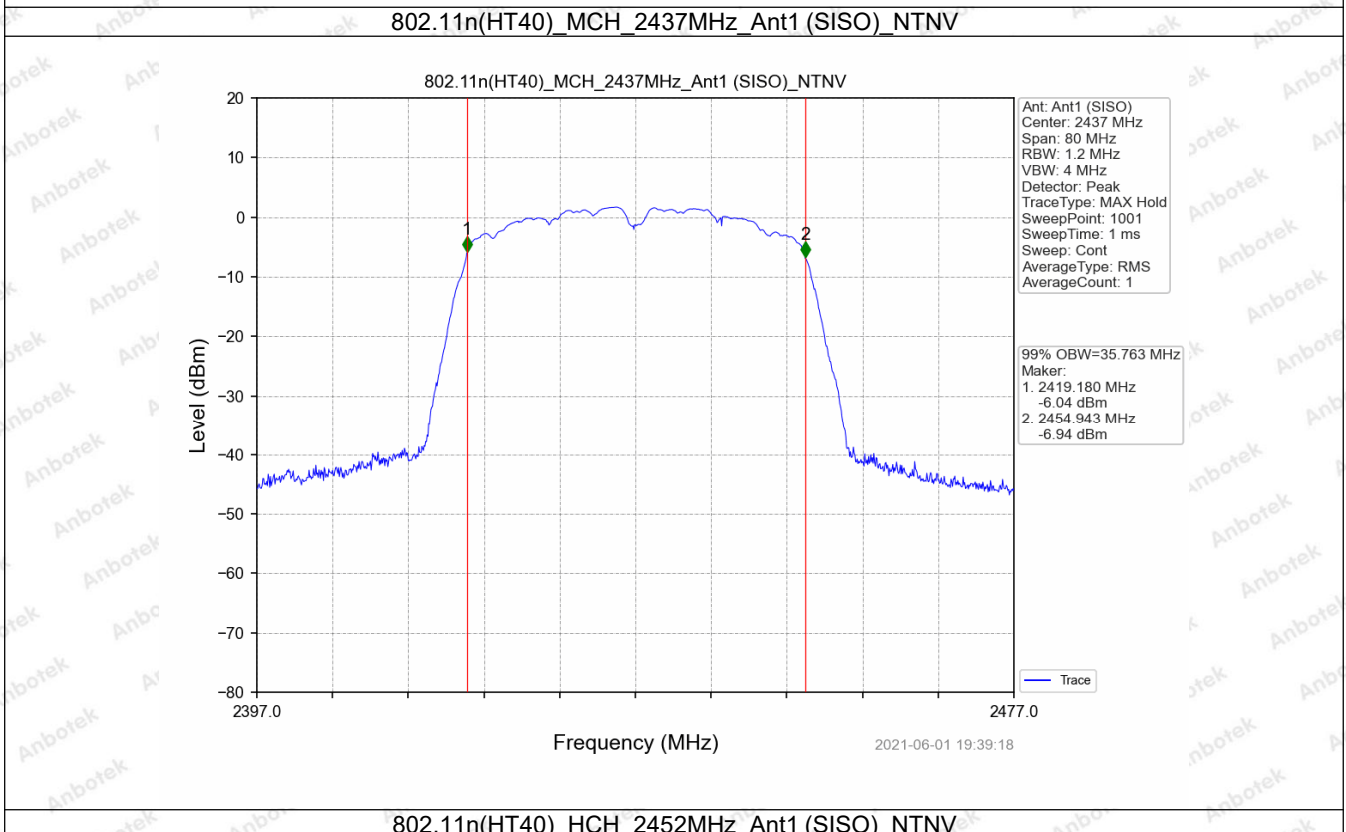
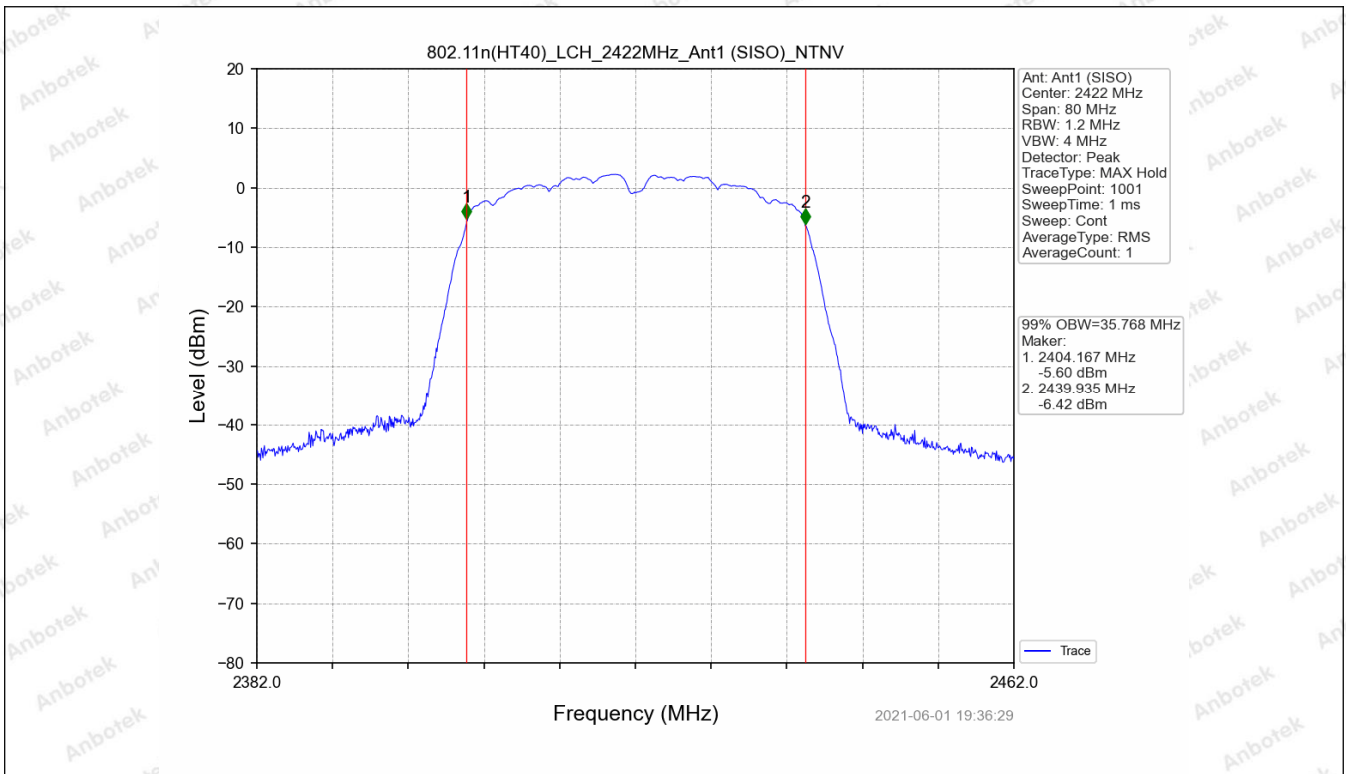
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

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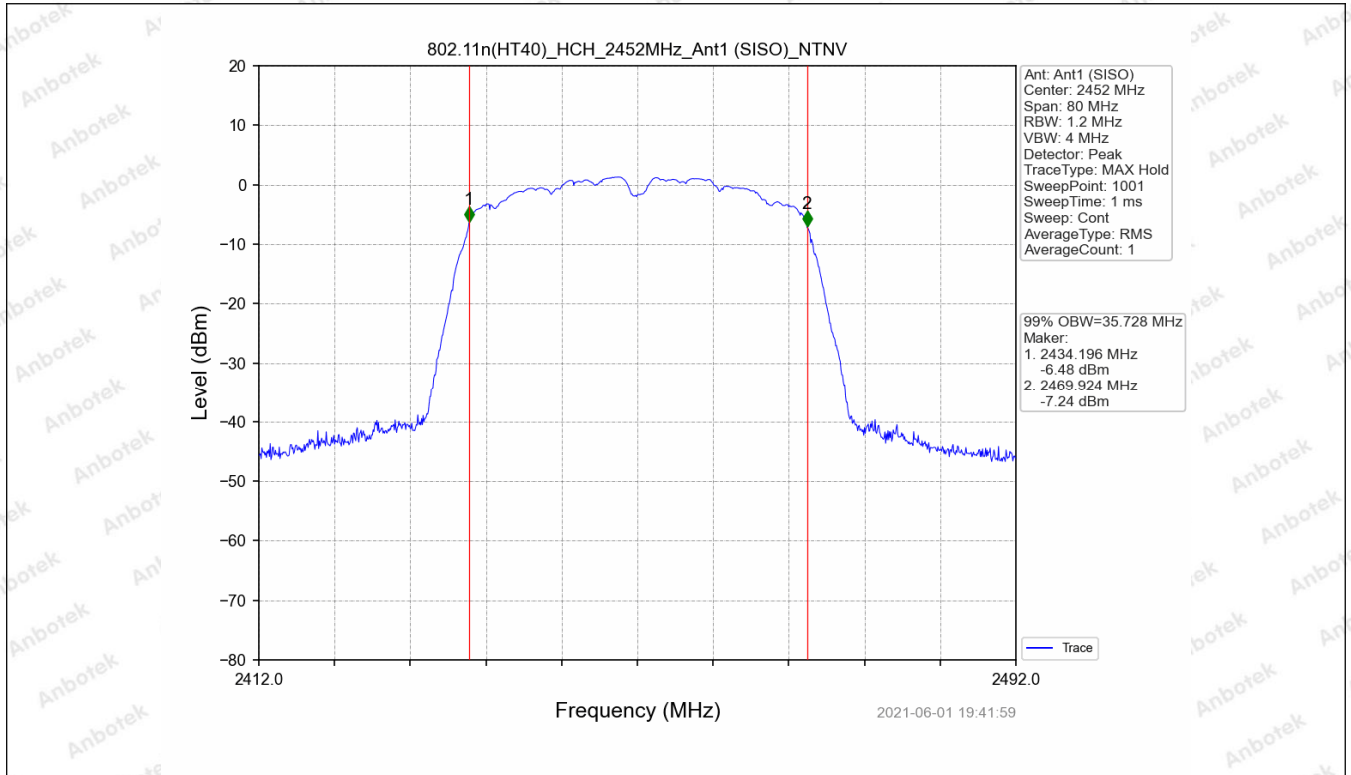
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

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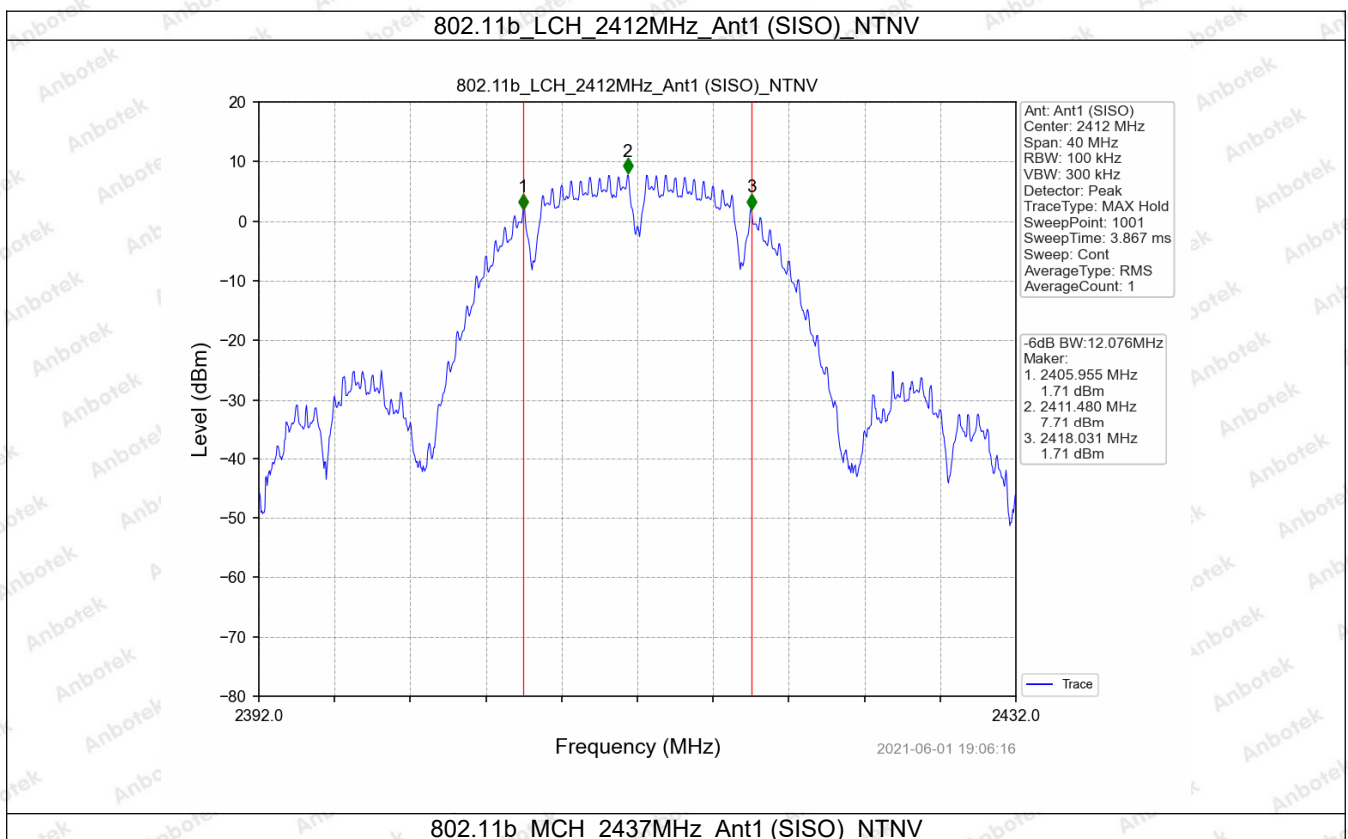
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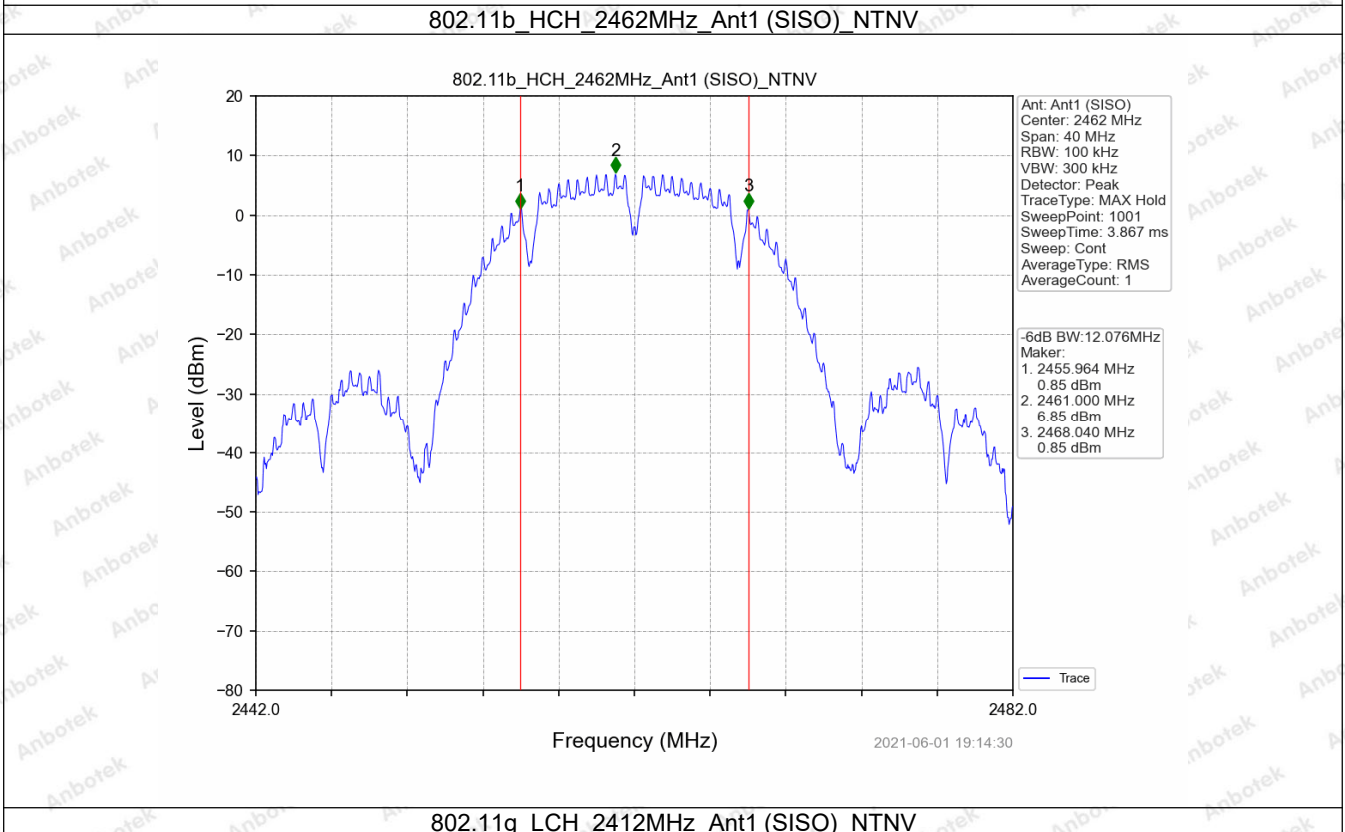
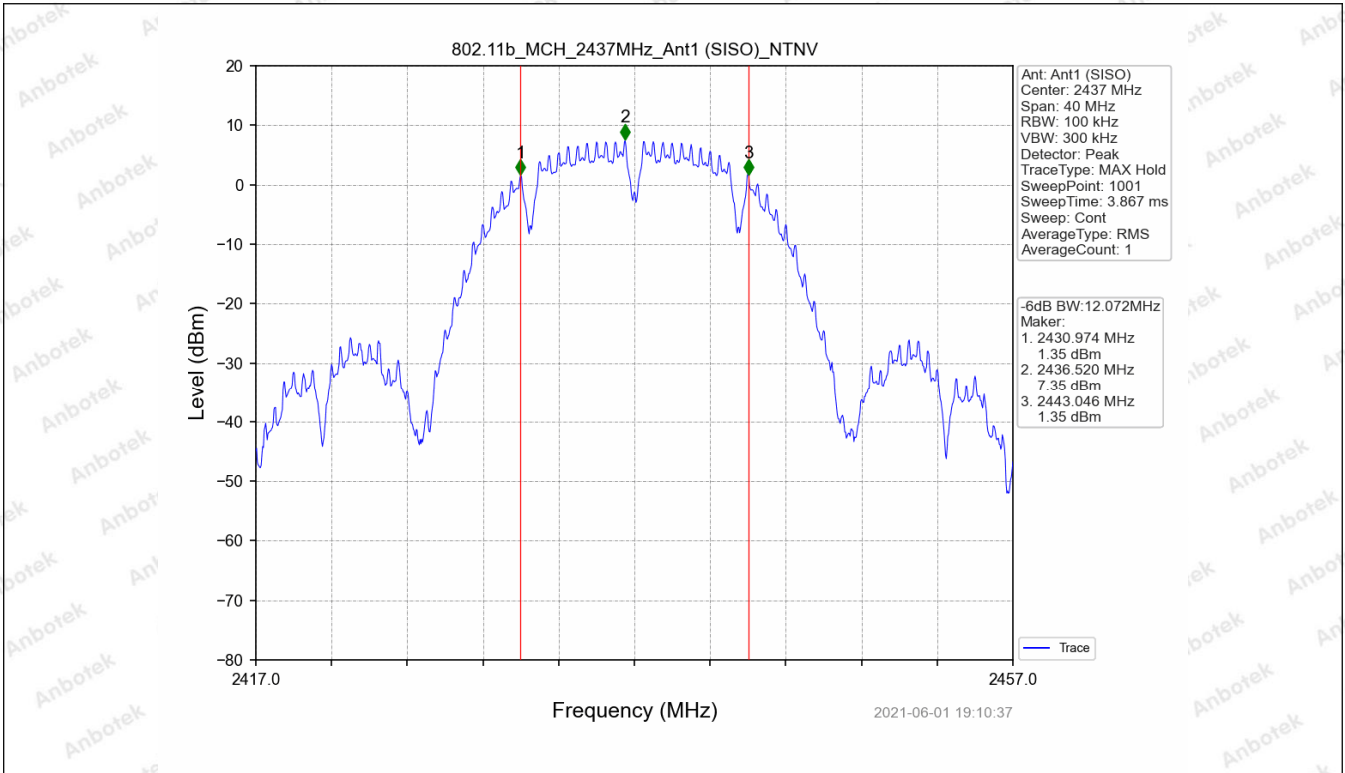
2.2 XDB

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	12.076	>=0.5	Pass
		2437	/	/	12.072	>=0.5	Pass
		2462	/	/	12.076	>=0.5	Pass
802.11g	SISO	2412	/	/	15.176	>=0.5	Pass
		2437	/	/	15.179	>=0.5	Pass
		2462	/	/	15.177	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	15.073	>=0.5	Pass
		2437	/	/	15.075	>=0.5	Pass
		2462	/	/	15.071	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	35.110	>=0.5	Pass
		2437	/	/	35.111	>=0.5	Pass
		2452	/	/	35.107	>=0.5	Pass

2.2.2 Test Graph





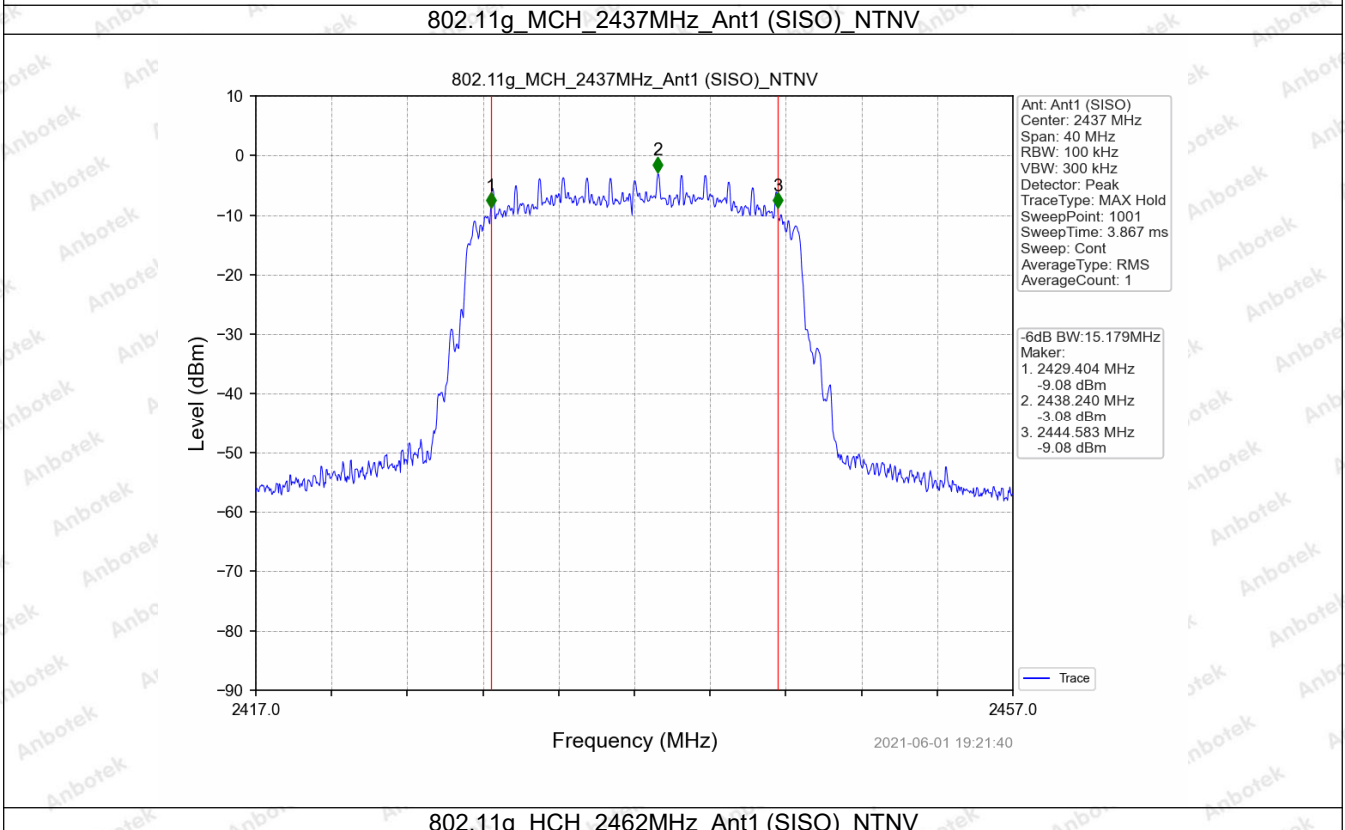
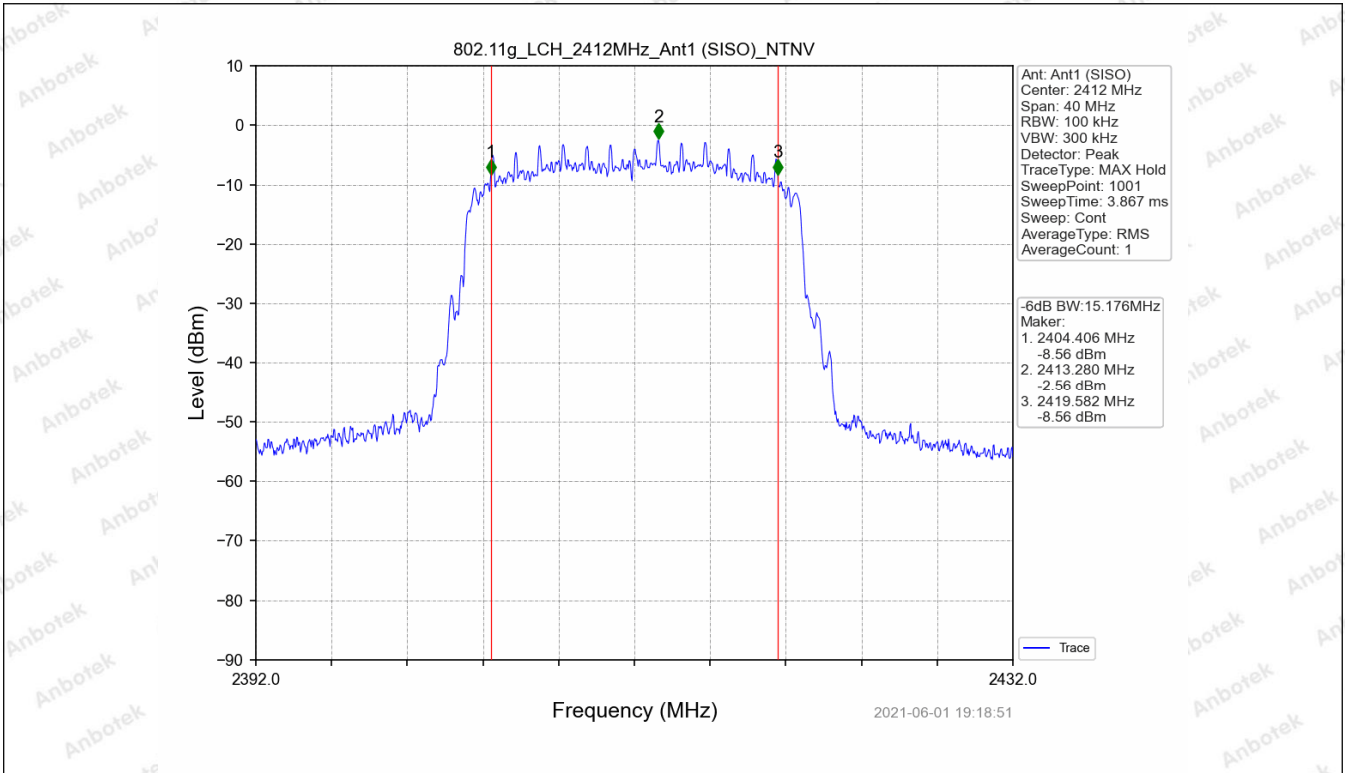
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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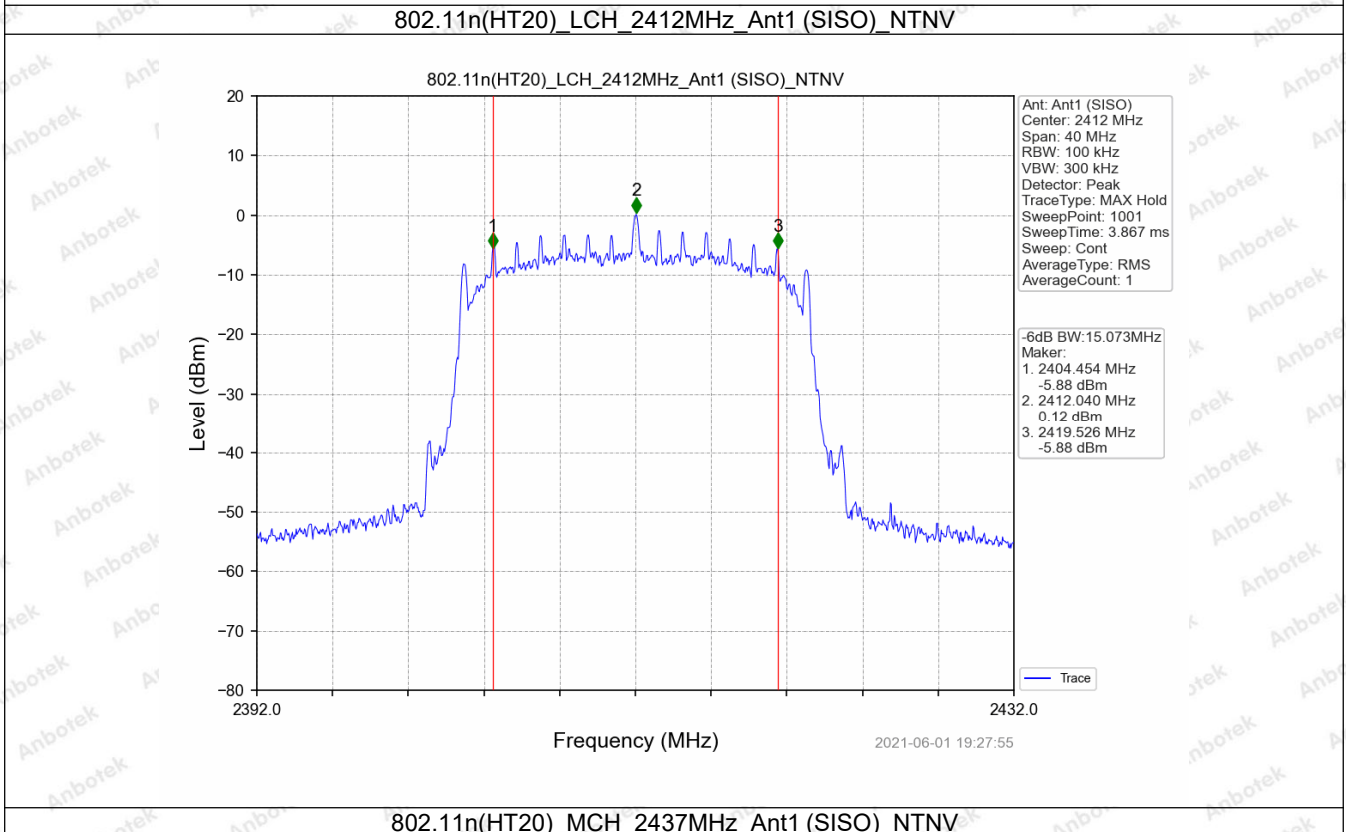
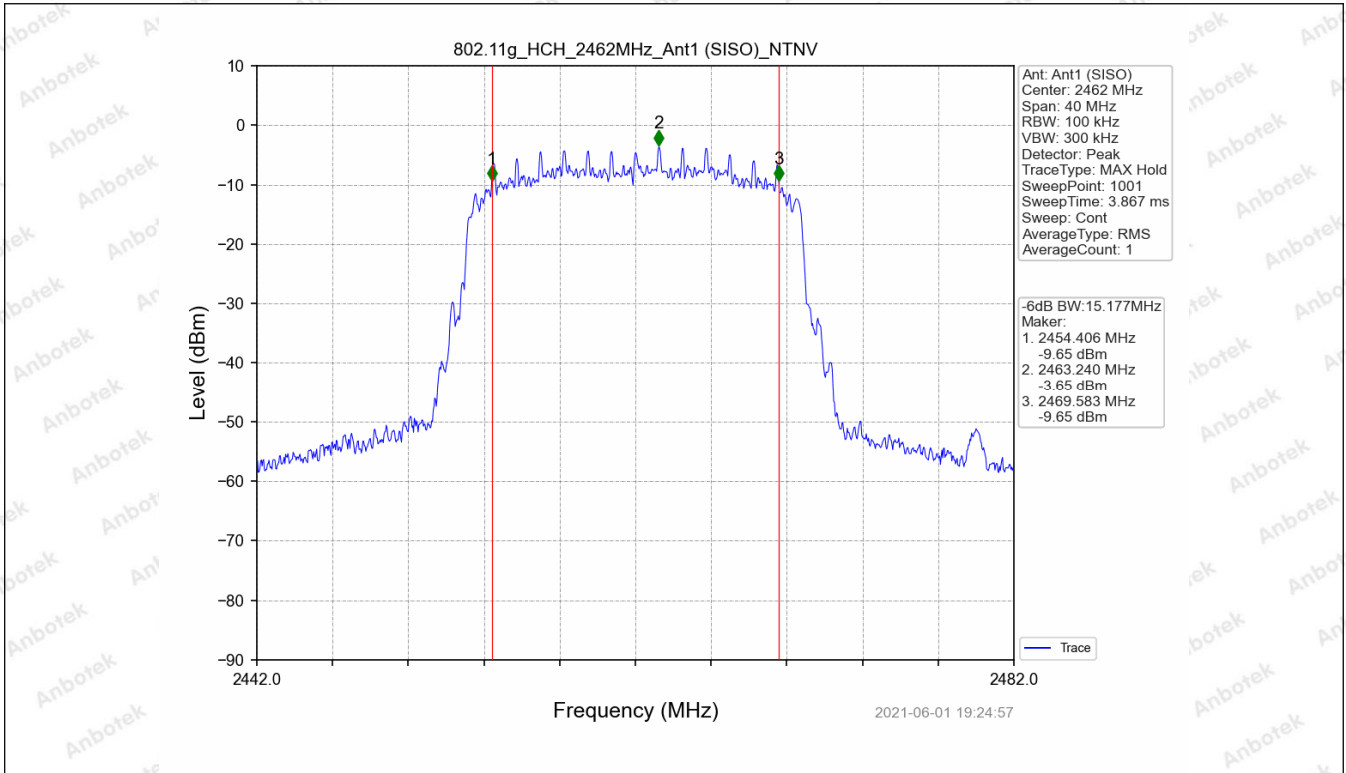
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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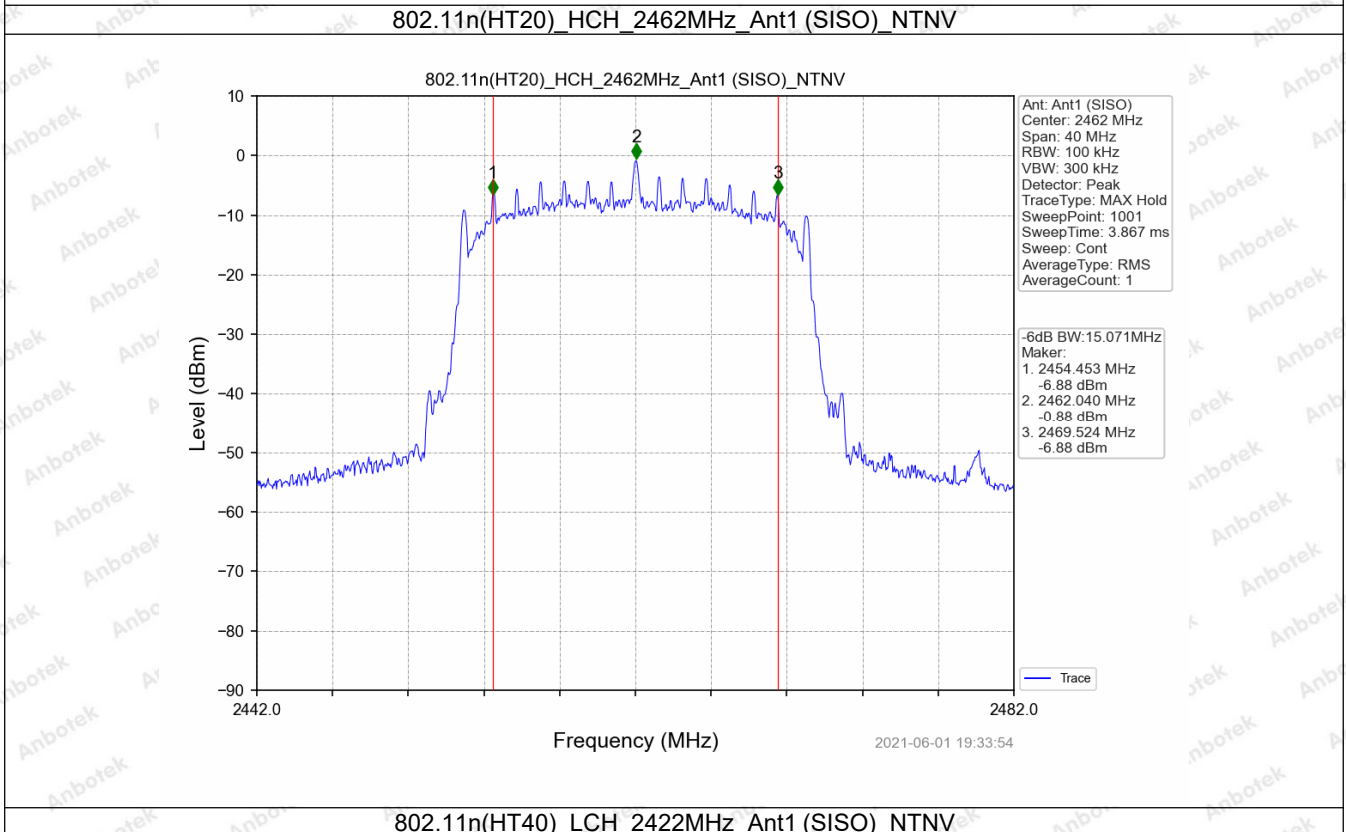
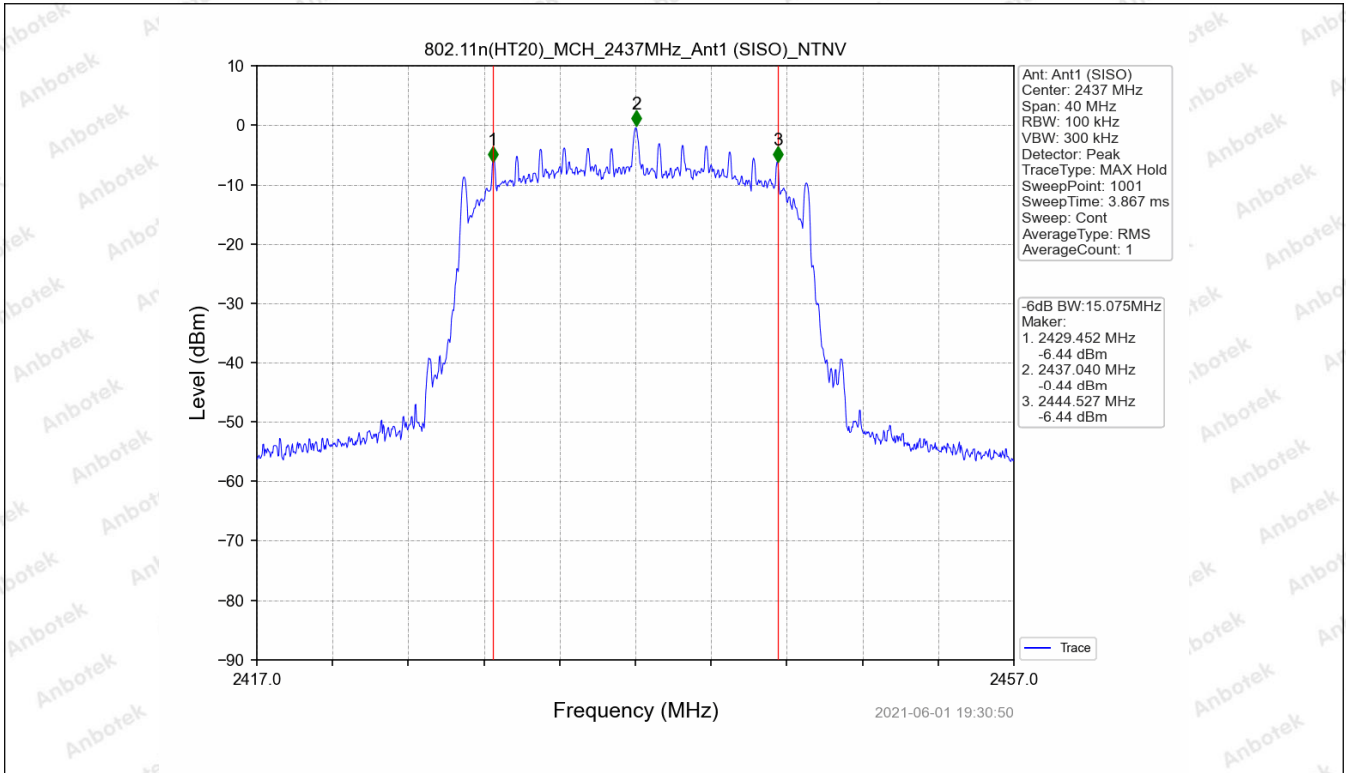
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

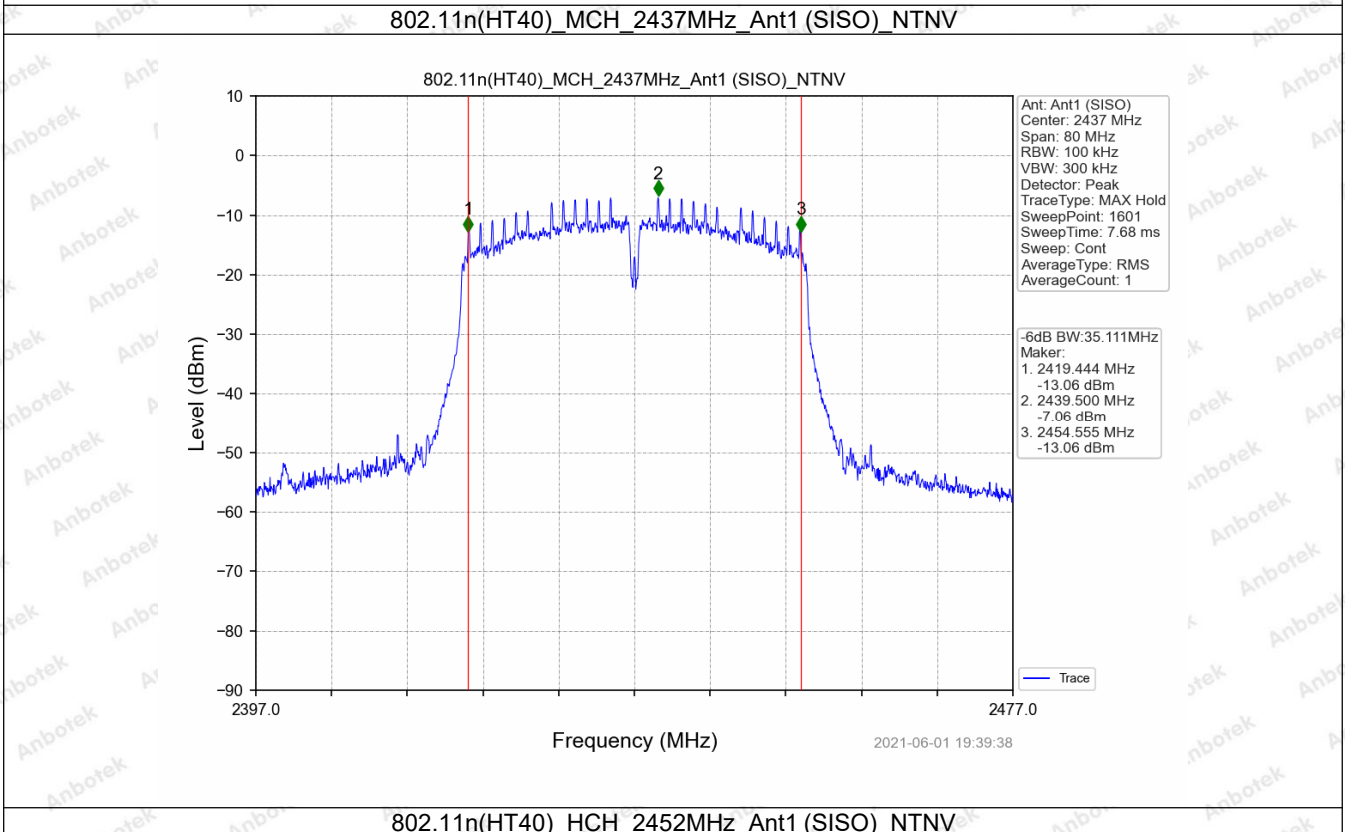
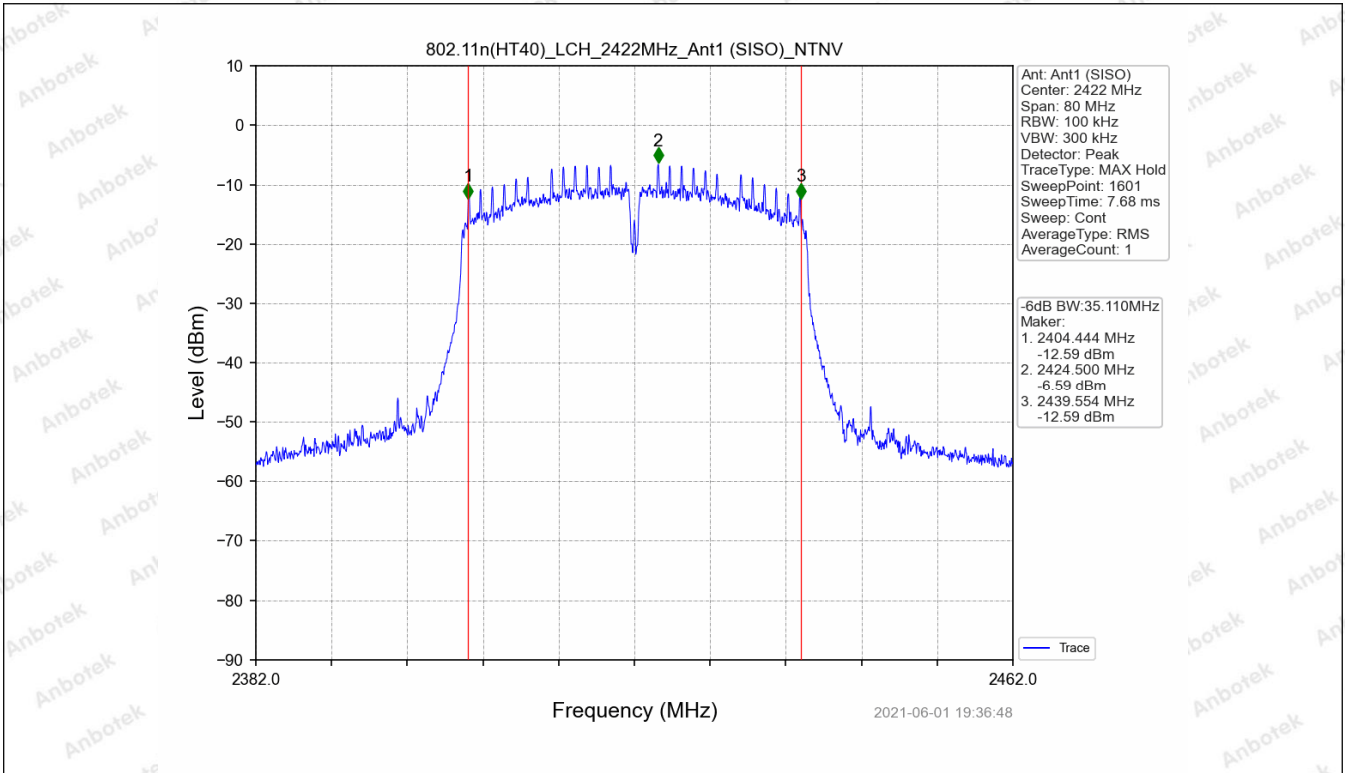
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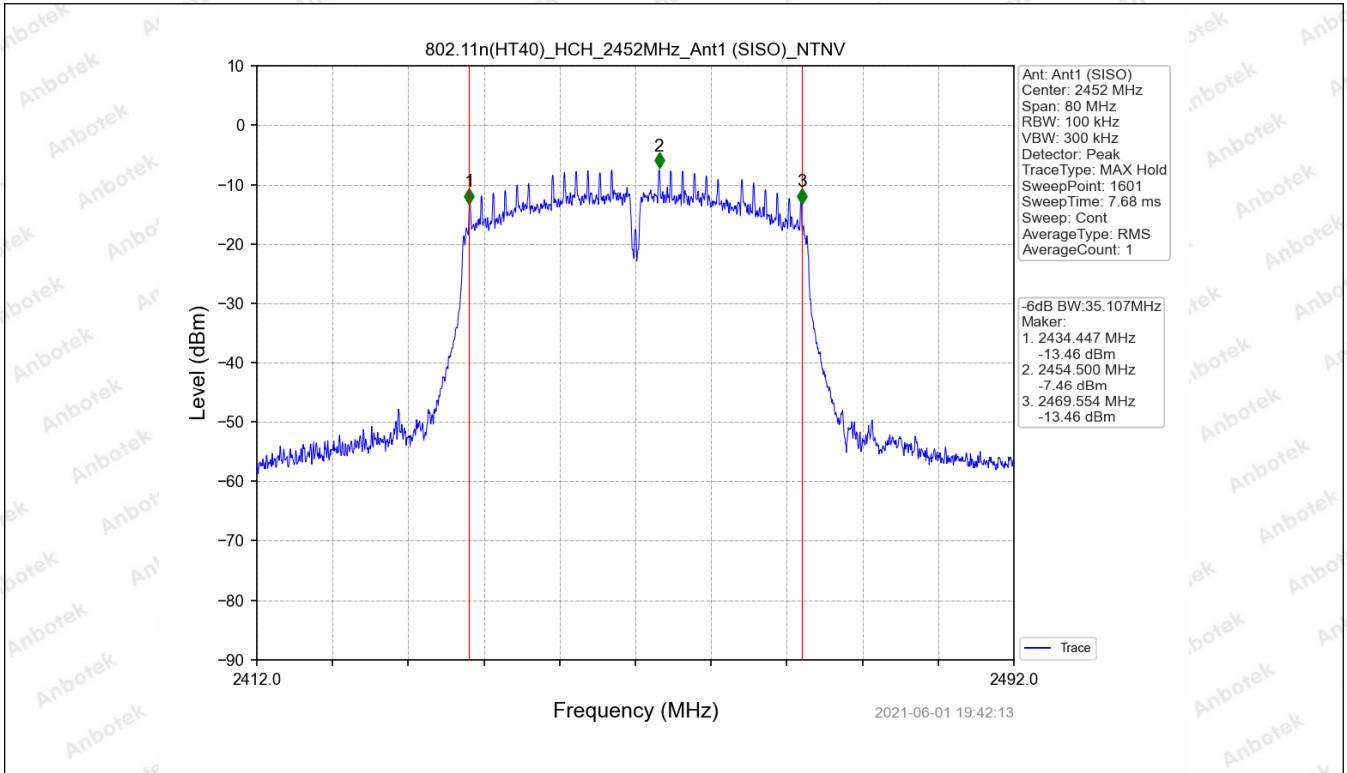
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Measured Peak Output Power (dBm)	Limit (dBm)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	20.89	<=30	Pass
		2437	/	/	20.57	<=30	Pass
		2462	/	/	20.16	<=30	Pass
802.11g	SISO	2412	/	/	15.33	<=30	Pass
		2437	/	/	14.91	<=30	Pass
		2462	/	/	14.36	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	15.44	<=30	Pass
		2437	/	/	14.87	<=30	Pass
		2462	/	/	14.40	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	13.98	<=30	Pass
		2437	/	/	13.52	<=30	Pass
		2452	/	/	13.11	<=30	Pass

Note1: Antenna Gain: 0 dBi;

4. Maximum Power Spectral Density

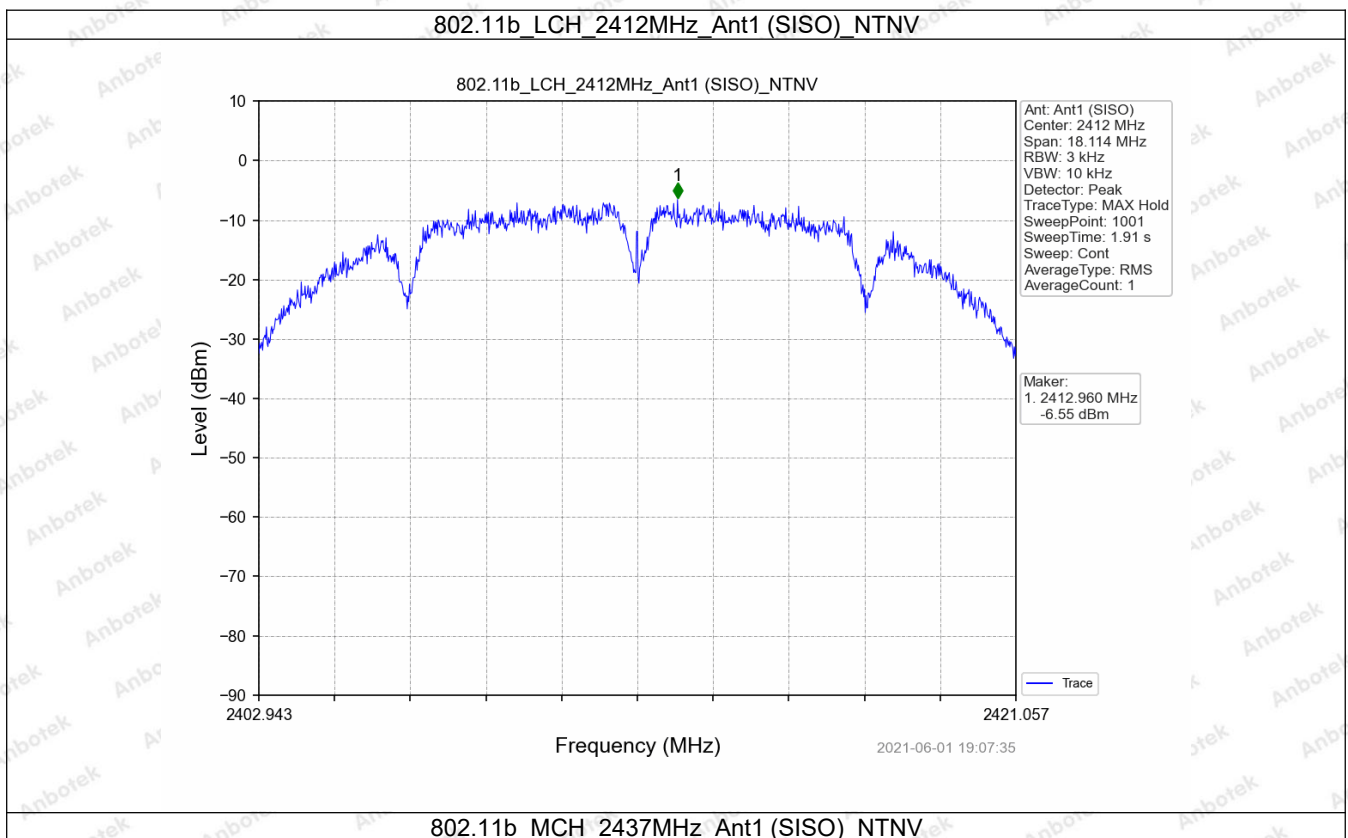
4.1 PSD

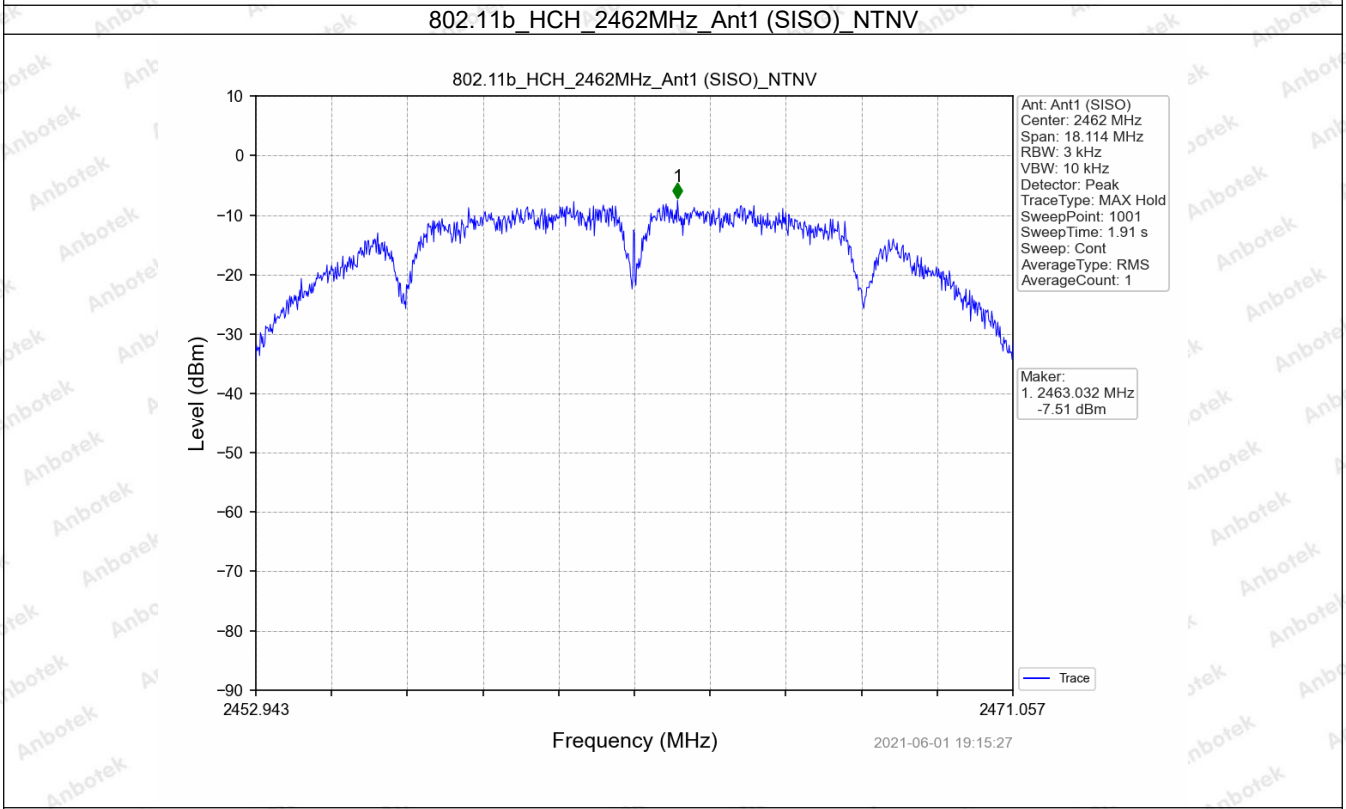
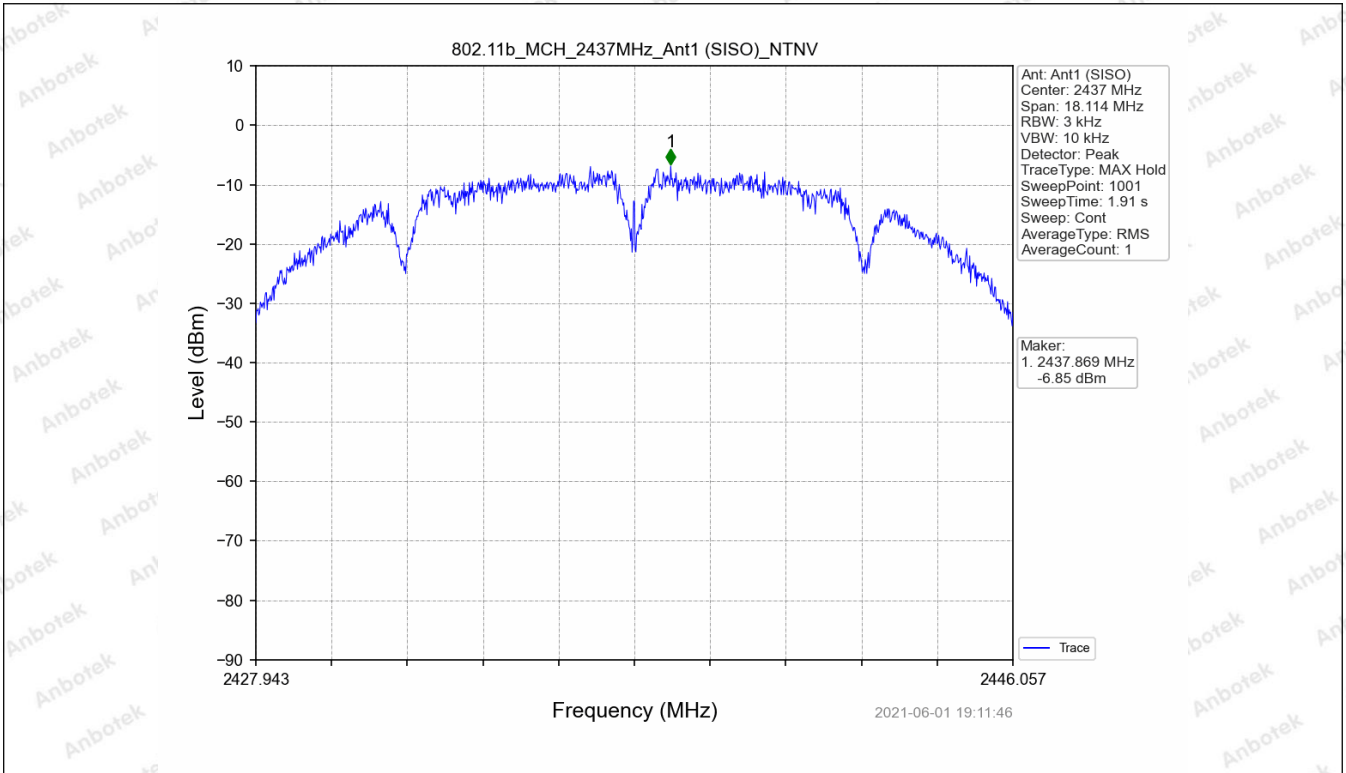
4.1.1 Test Result

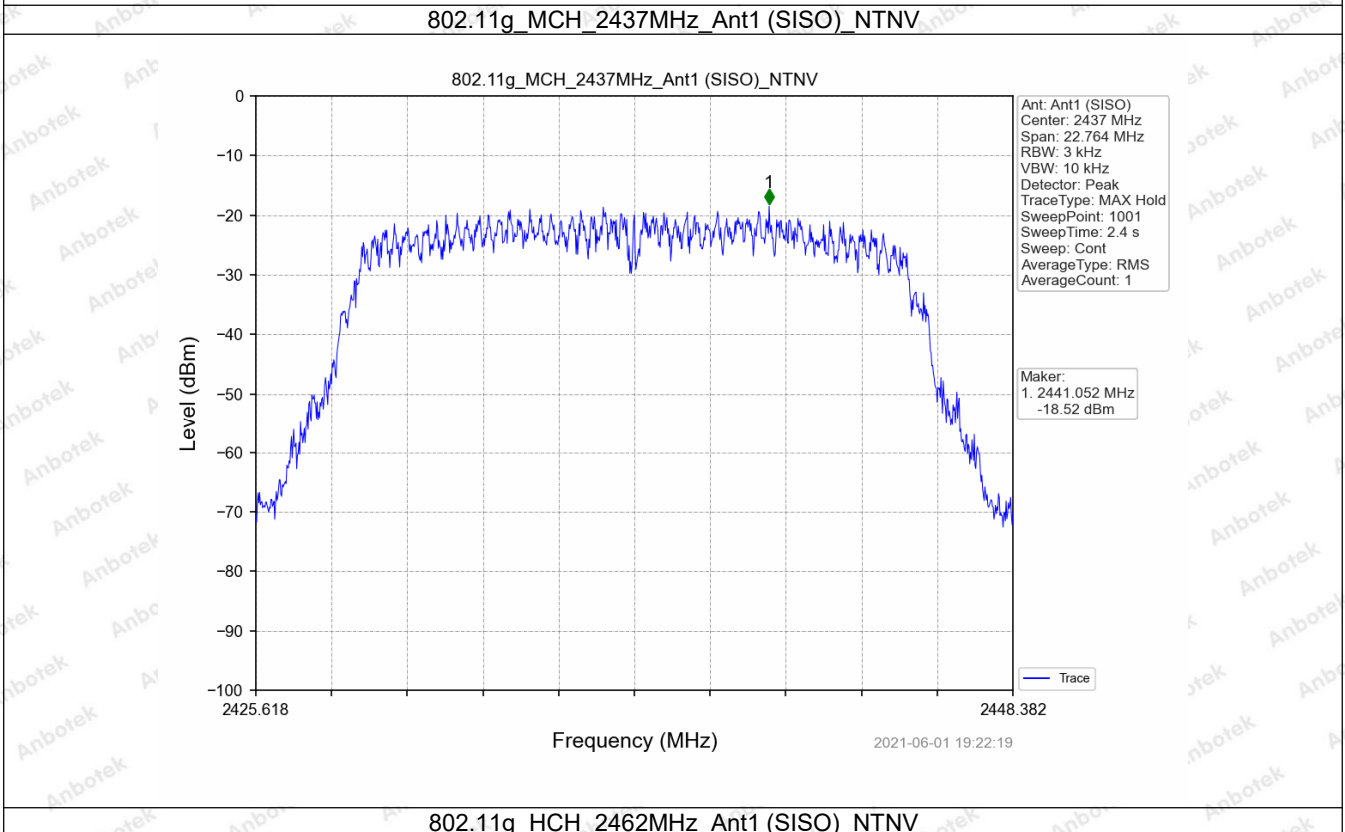
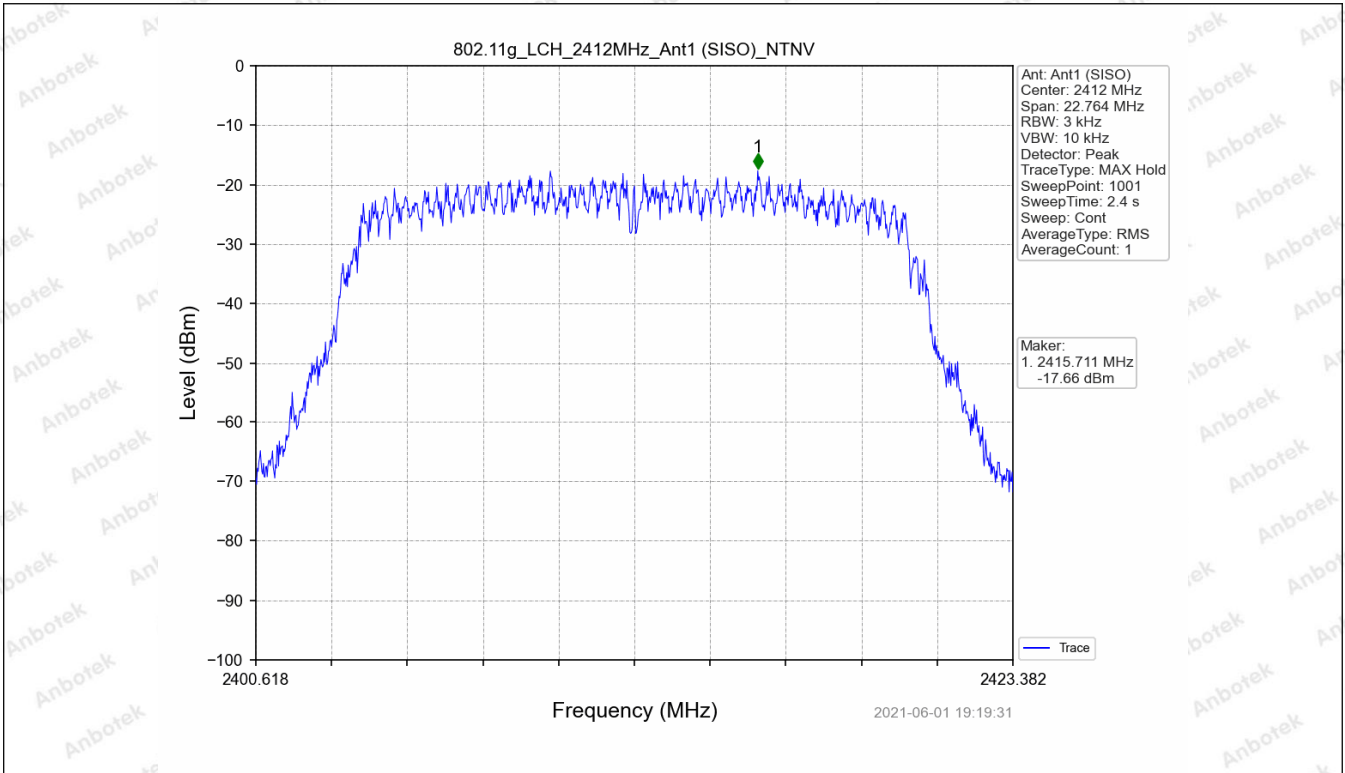
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	-6.55	<=8	Pass
		2437	/	/	-6.85	<=8	Pass
		2462	/	/	-7.51	<=8	Pass
802.11g	SISO	2412	/	/	-17.66	<=8	Pass
		2437	/	/	-18.52	<=8	Pass
		2462	/	/	-17.41	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-17.09	<=8	Pass
		2437	/	/	-17.28	<=8	Pass
		2462	/	/	-18.02	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-20.56	<=8	Pass
		2437	/	/	-20.98	<=8	Pass
		2452	/	/	-21.69	<=8	Pass

Note1: Antenna Gain: 0 dBi;

4.1.2 Test Graph







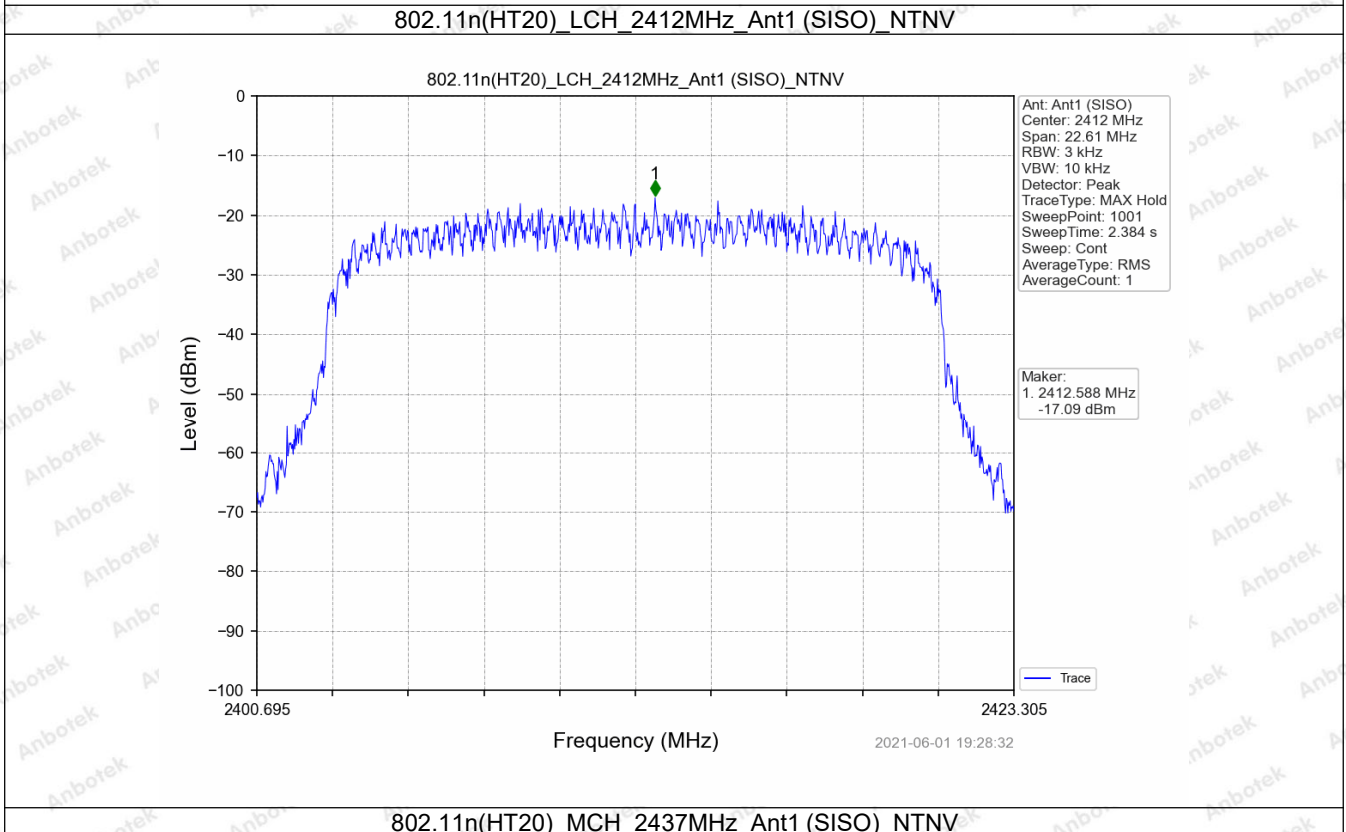
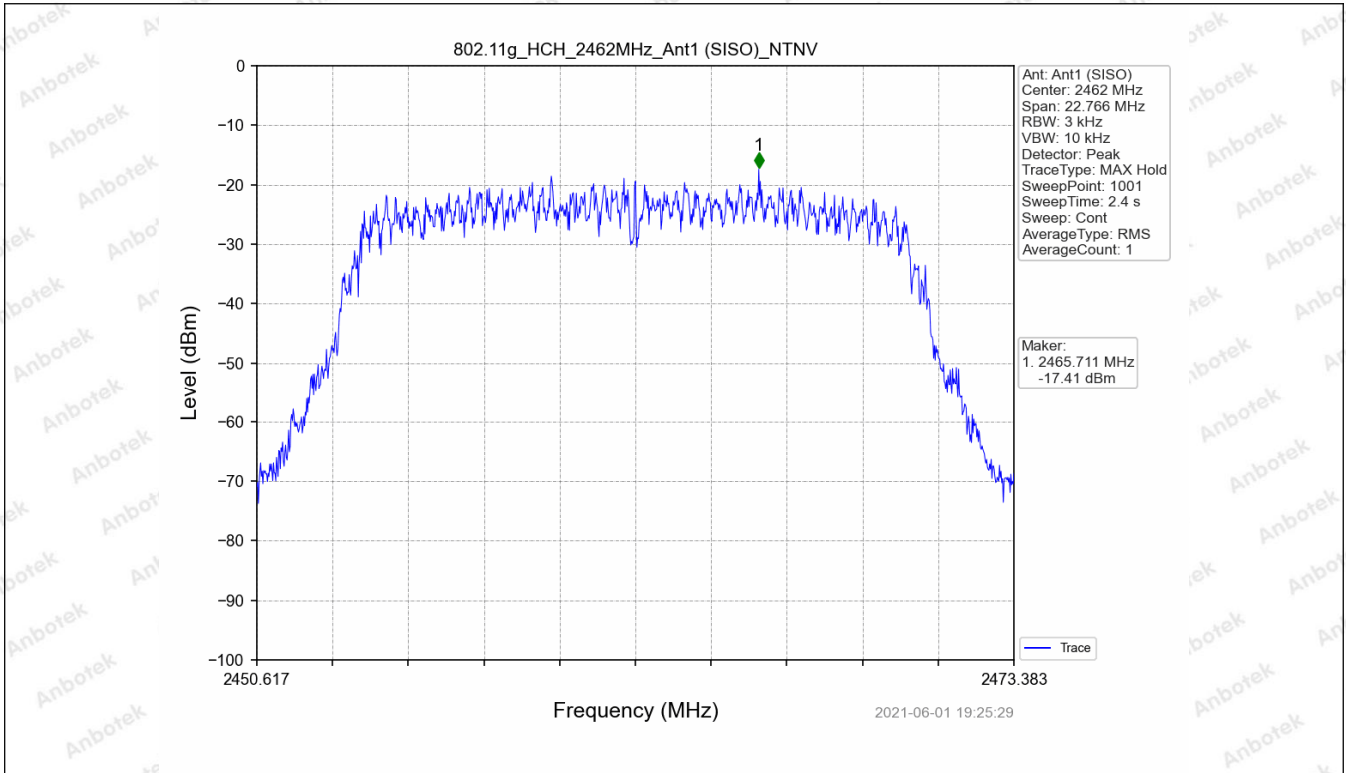
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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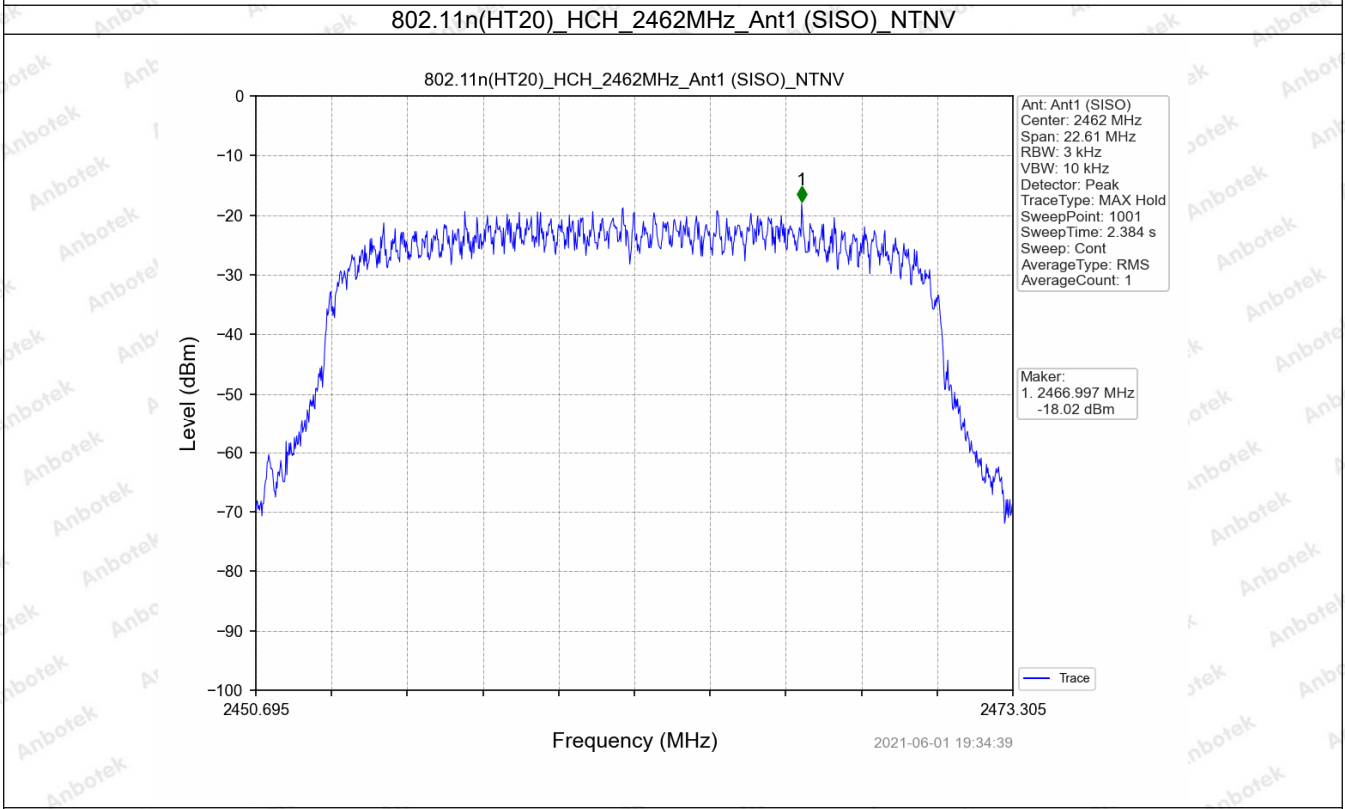
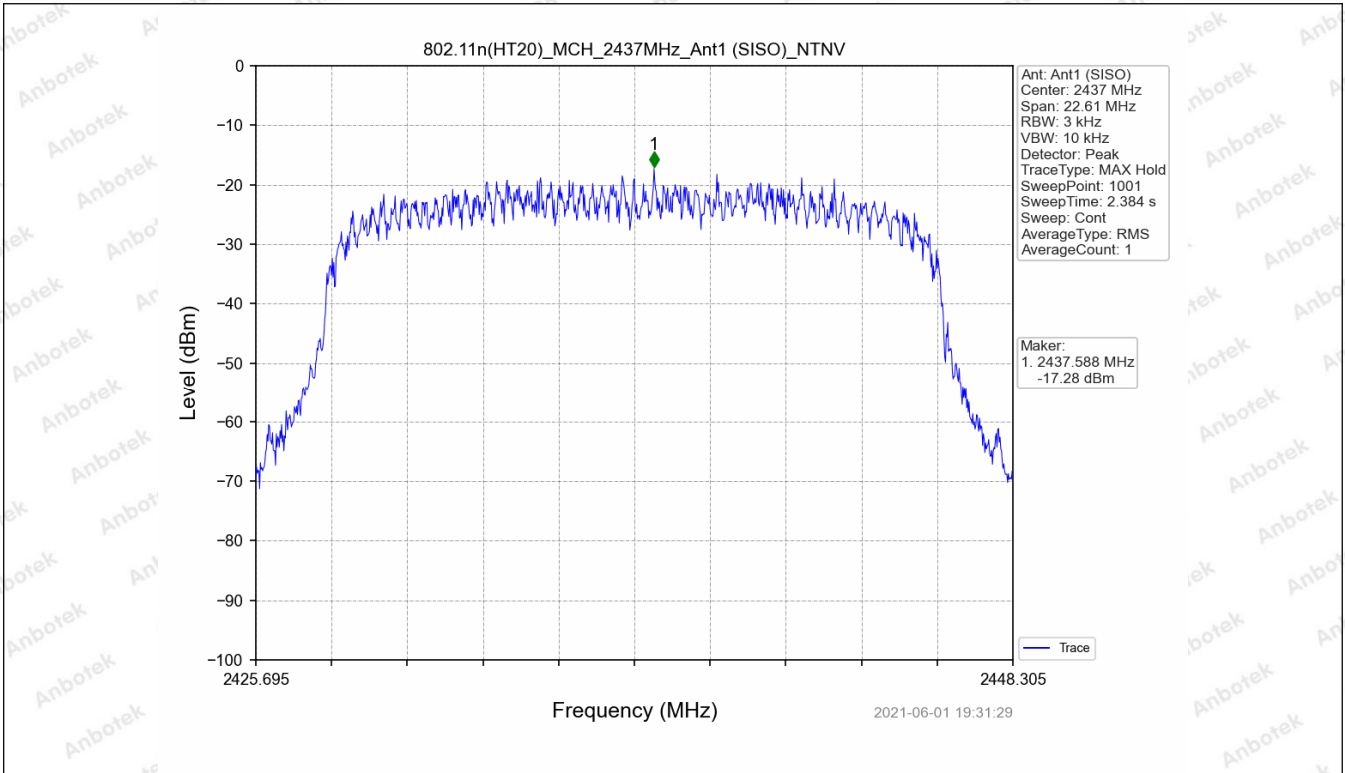
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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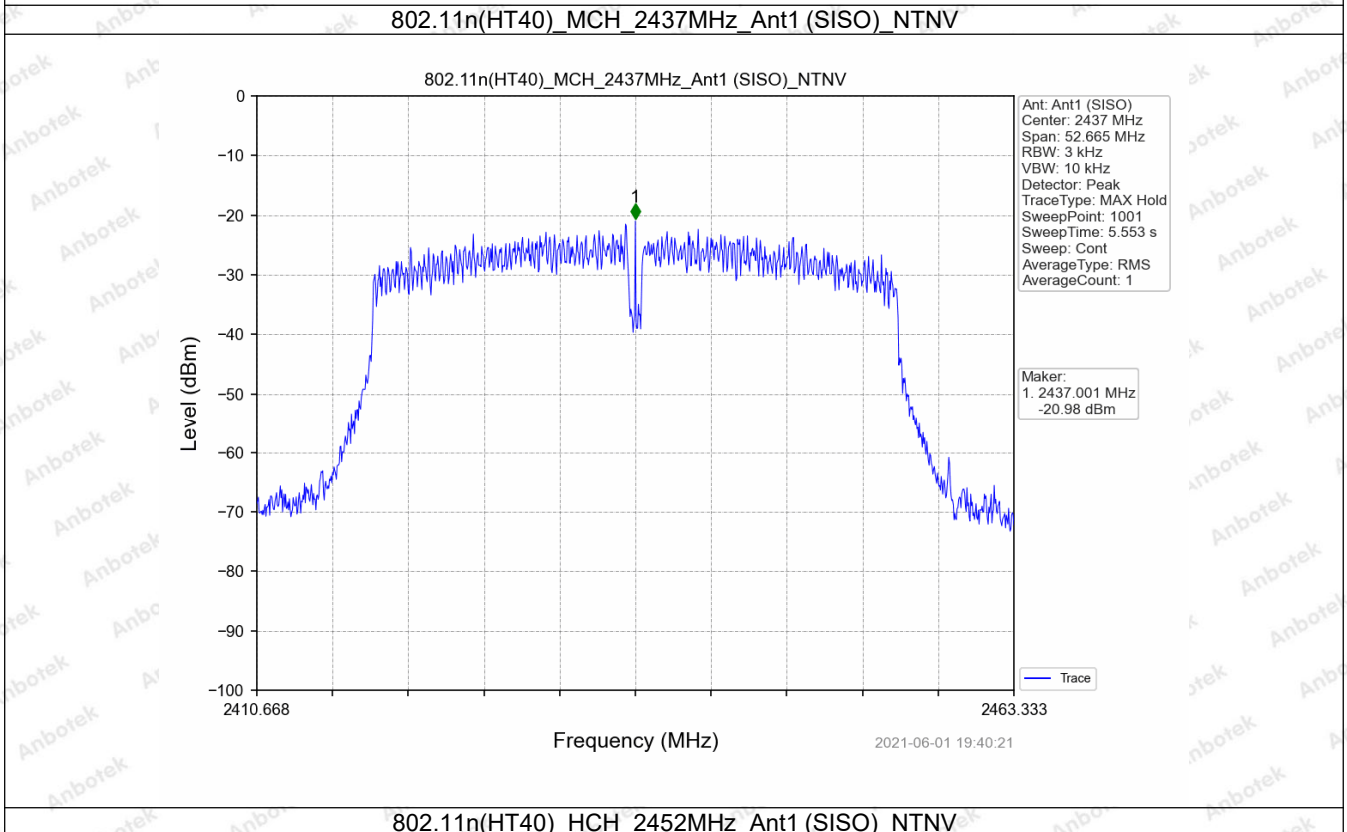
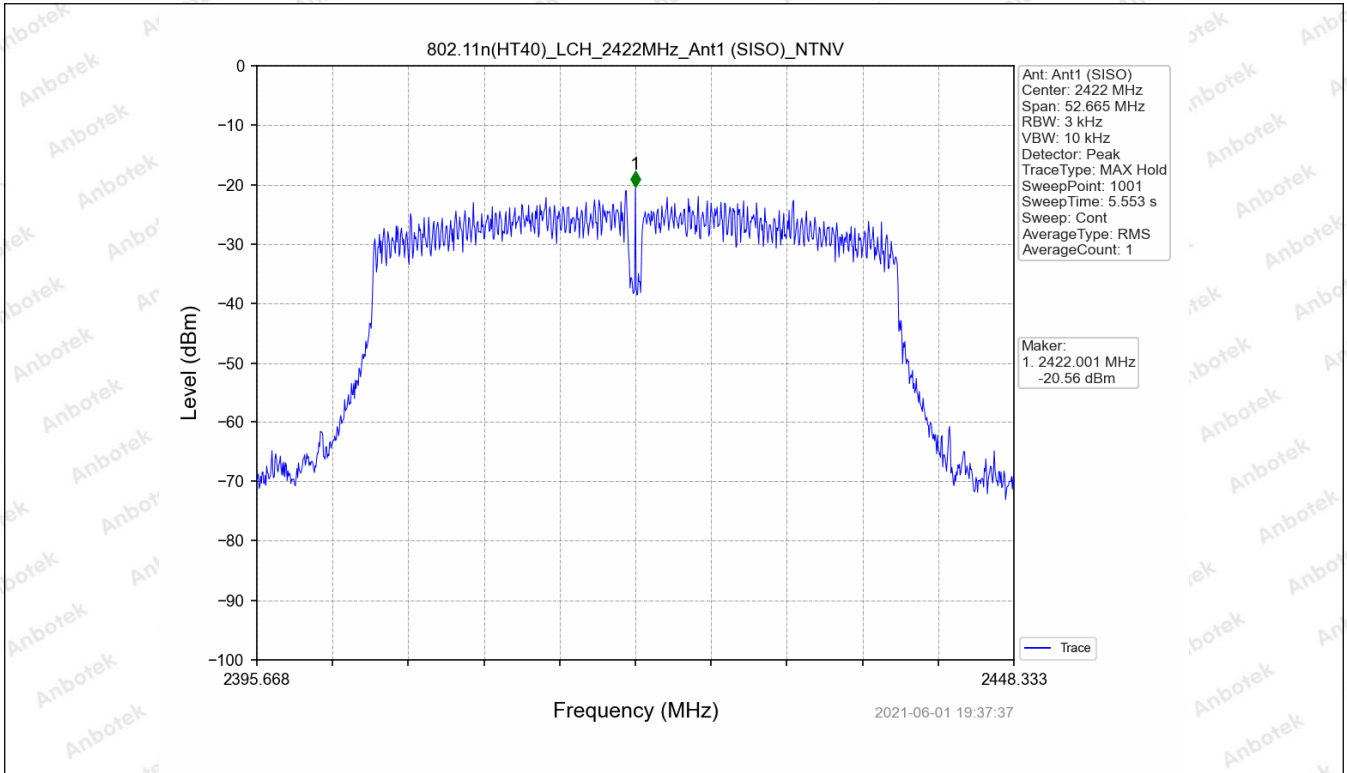
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

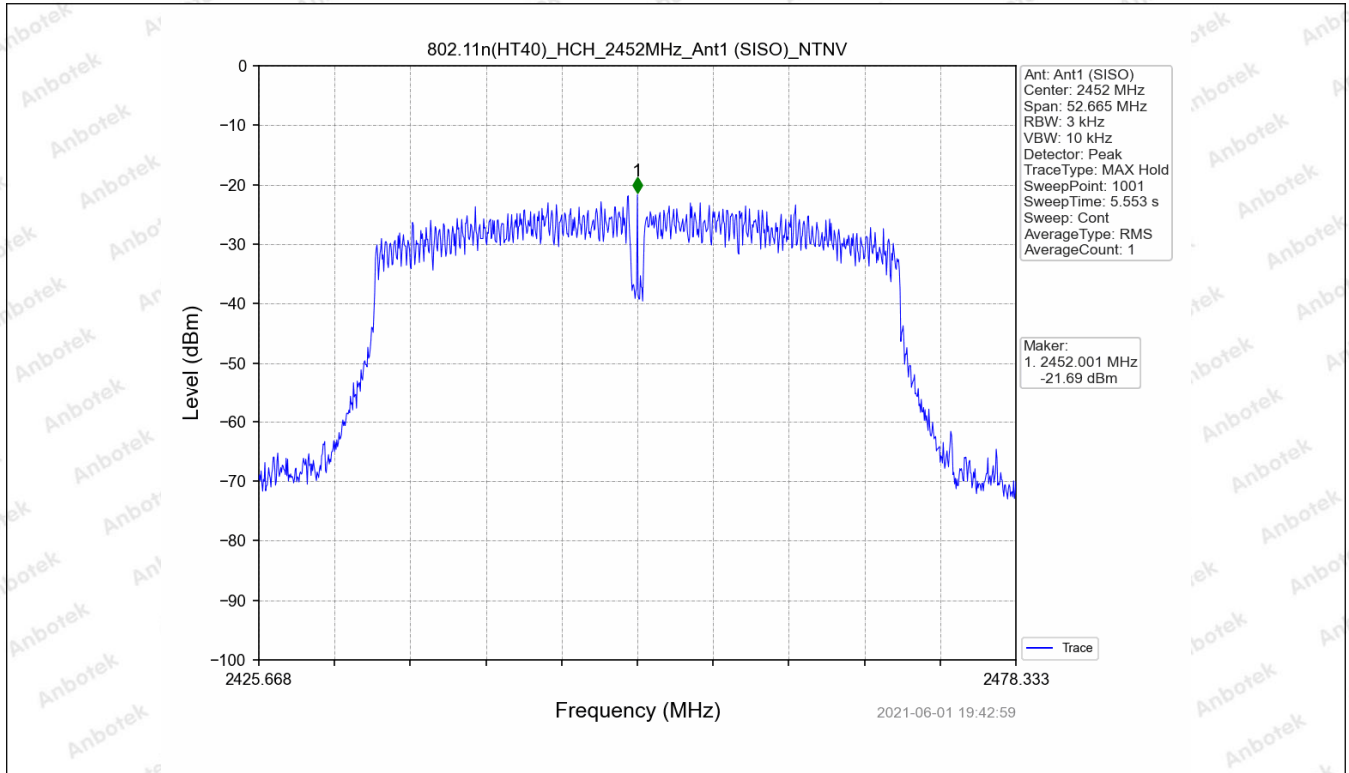
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5. Unwanted Emissions In Non-restricted Frequency Bands

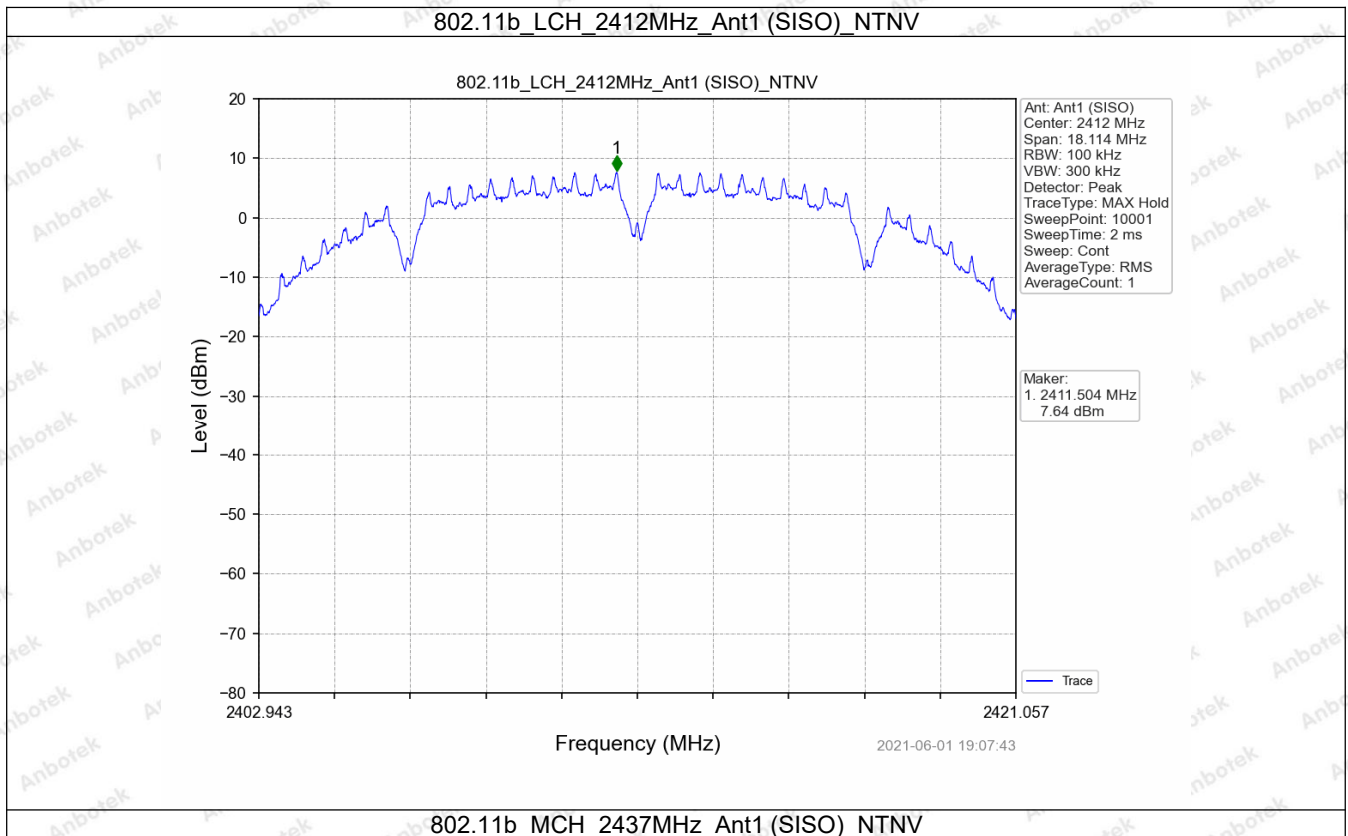
5.1 Ref

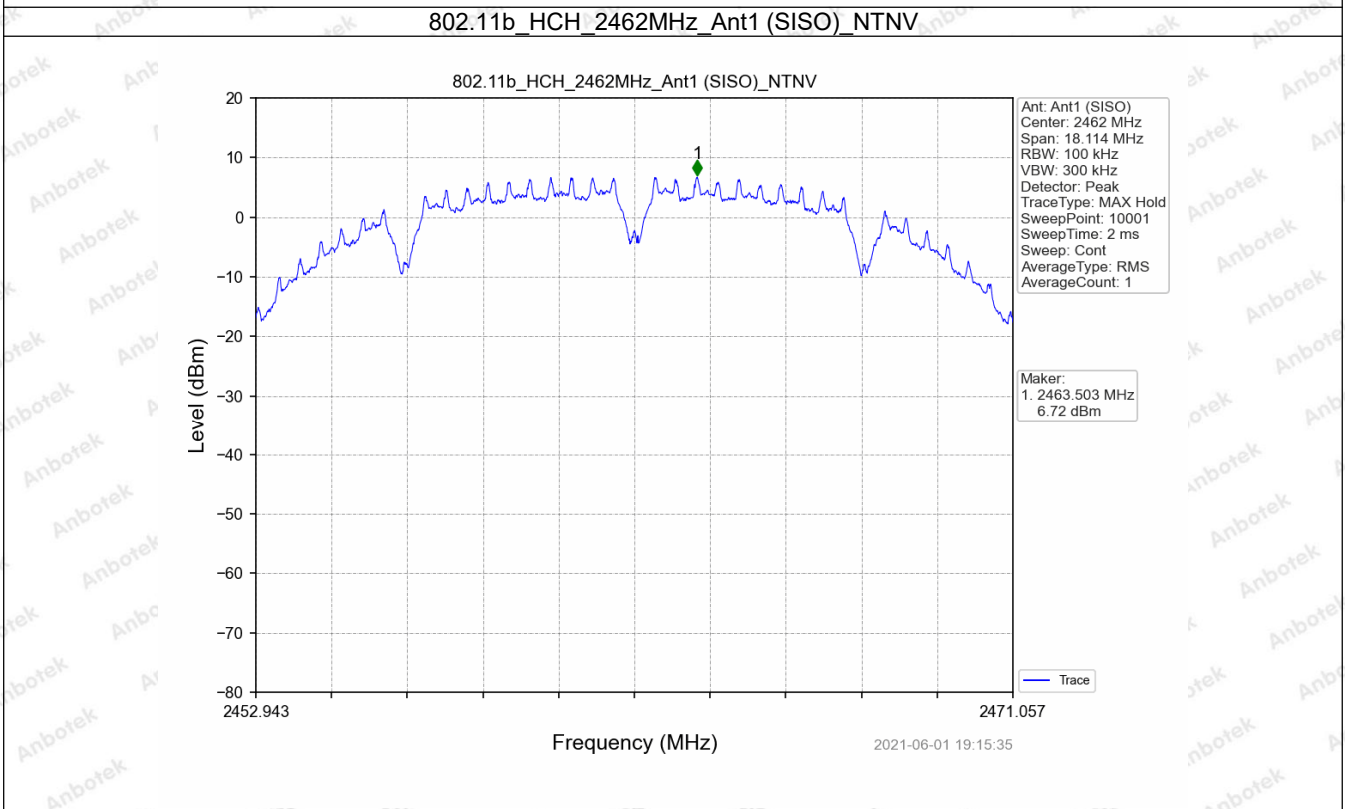
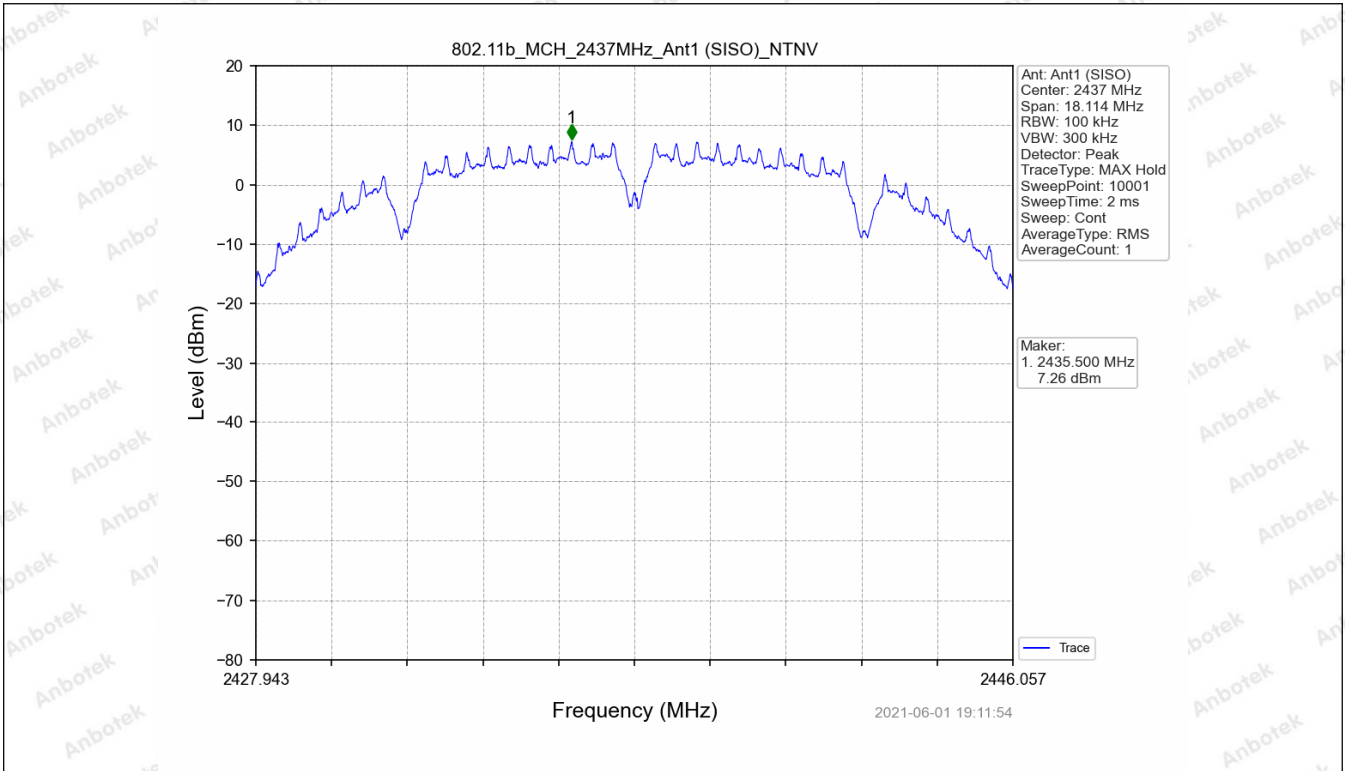
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	7.64	/	/
		2437	/	/	1	7.26	/	/
		2462	/	/	1	6.72	/	/
802.11g	SISO	2412	/	/	1	-2.76	/	/
		2437	/	/	1	-3.24	/	/
		2462	/	/	1	-3.77	/	/
802.11n (HT20)	SISO	2412	/	/	1	-0.09	/	/
		2437	/	/	1	-0.63	/	/
		2462	/	/	1	-1.16	/	/
802.11n (HT40)	SISO	2422	/	/	1	-6.74	/	/
		2437	/	/	1	-7.20	/	/
		2452	/	/	1	-7.61	/	/

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





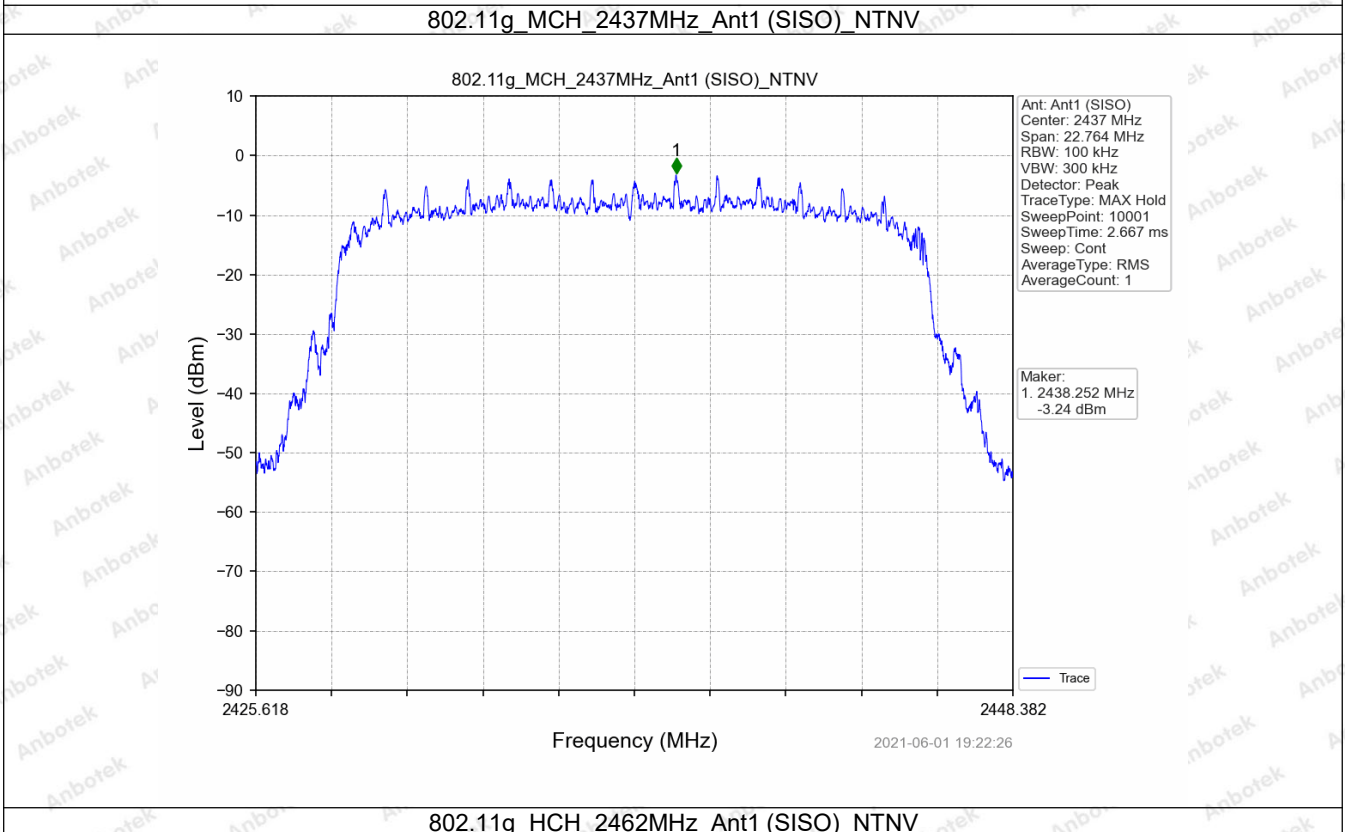
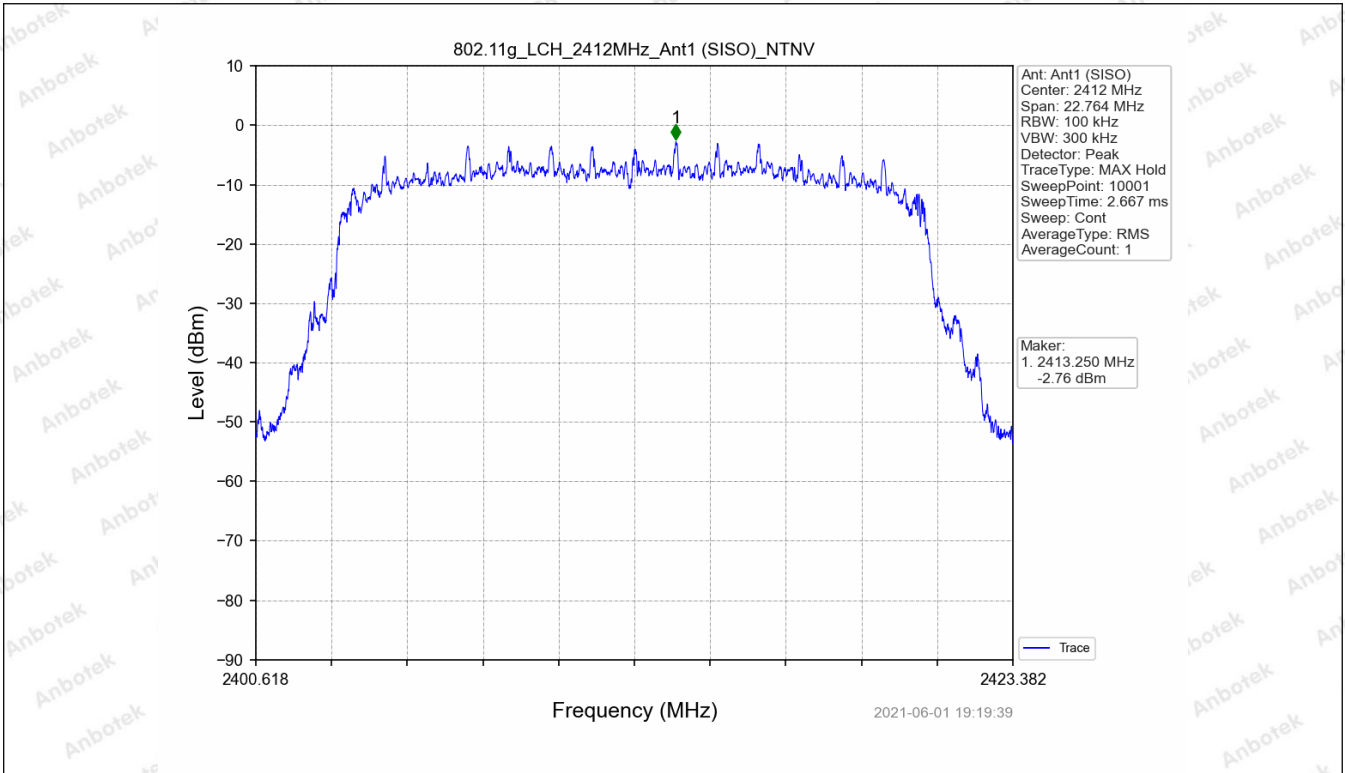
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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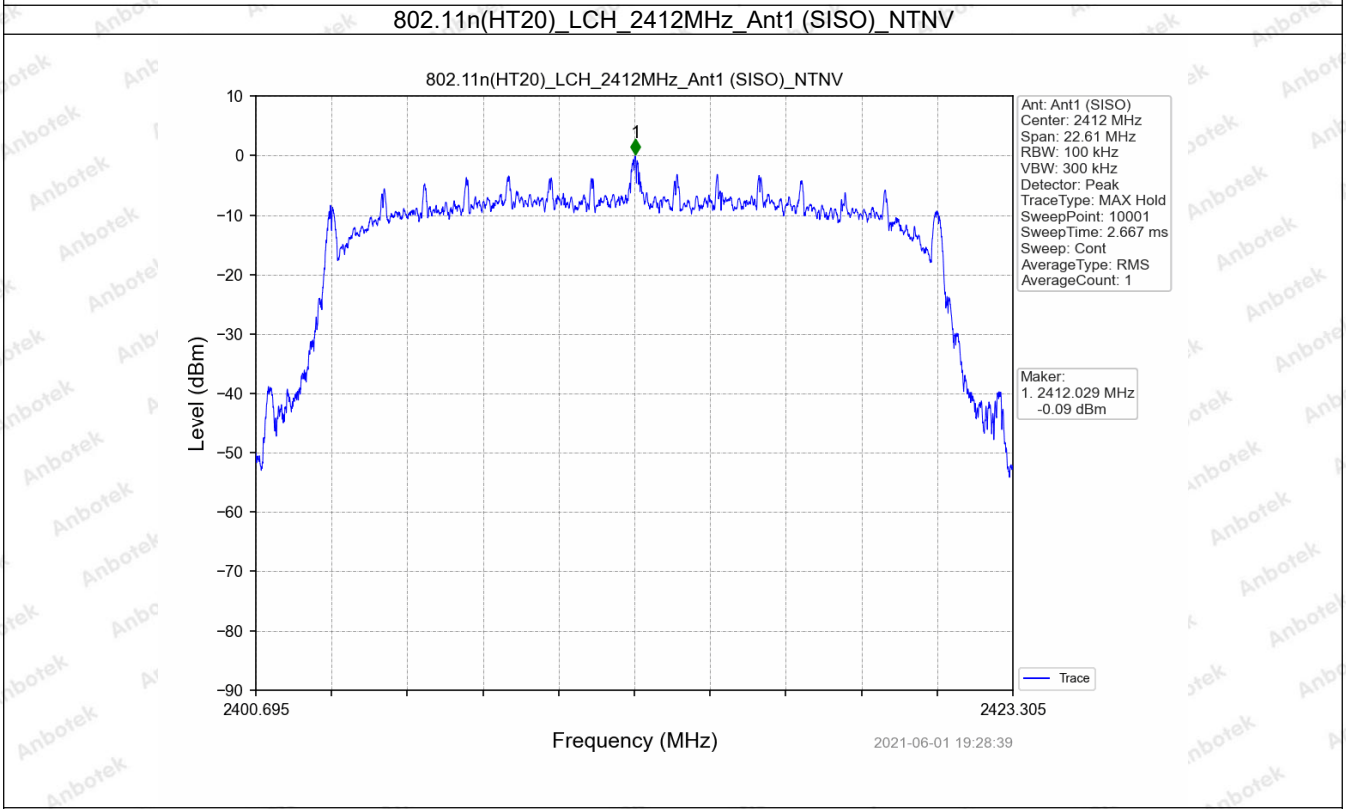
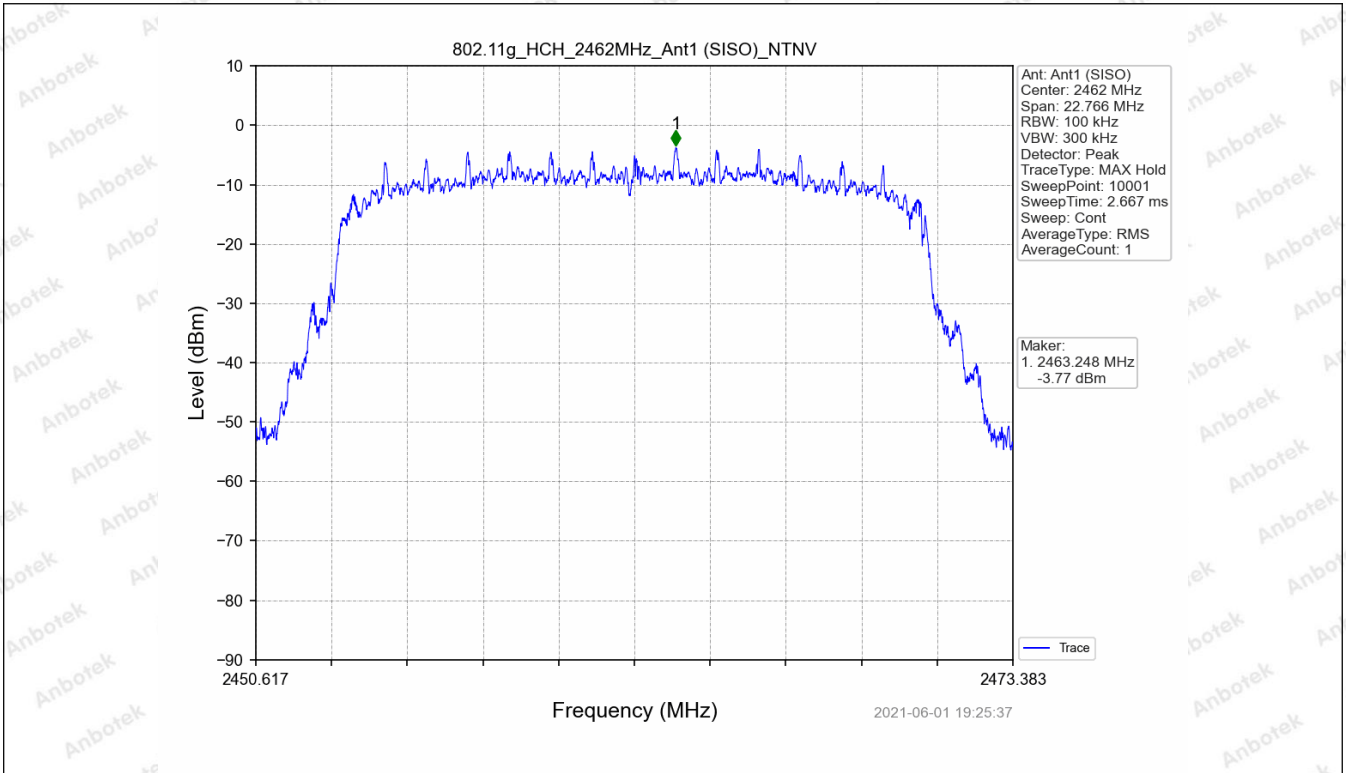
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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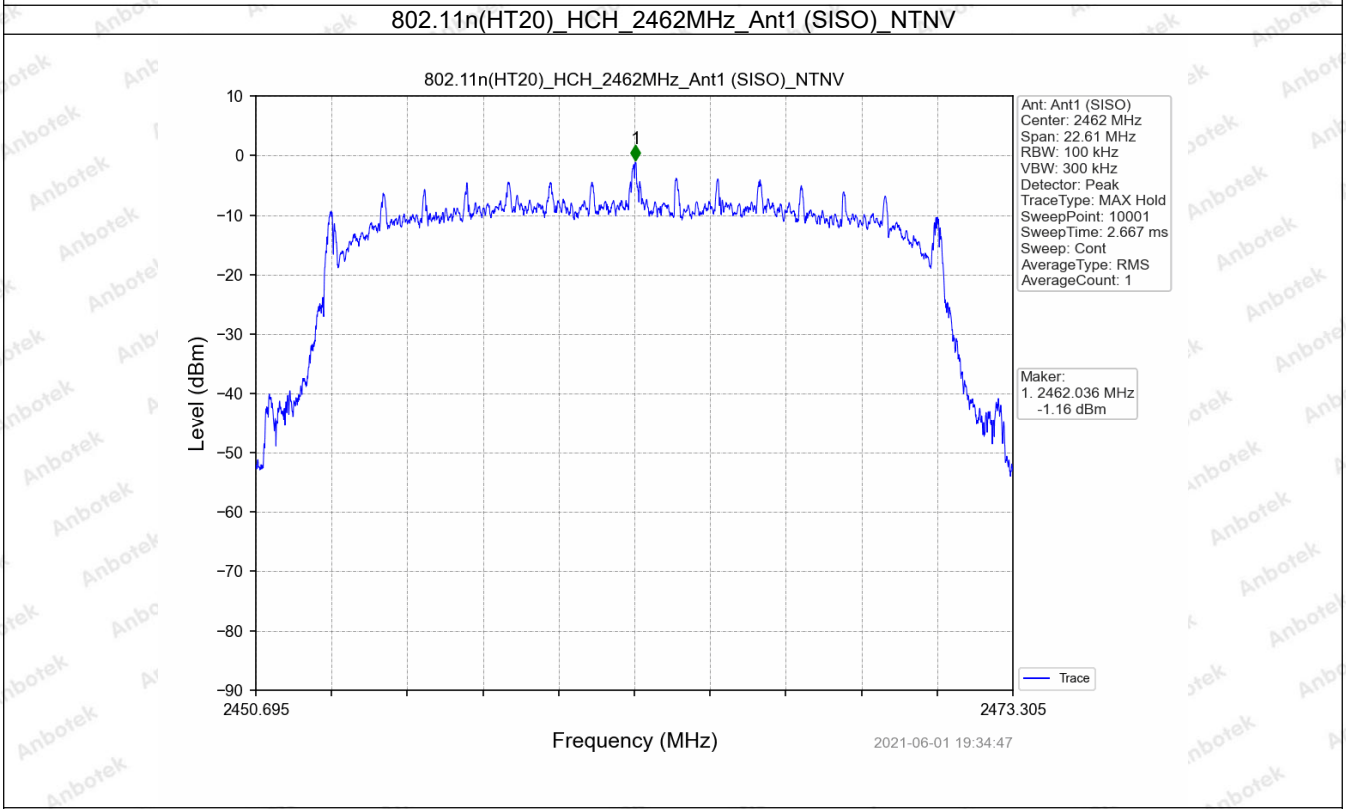
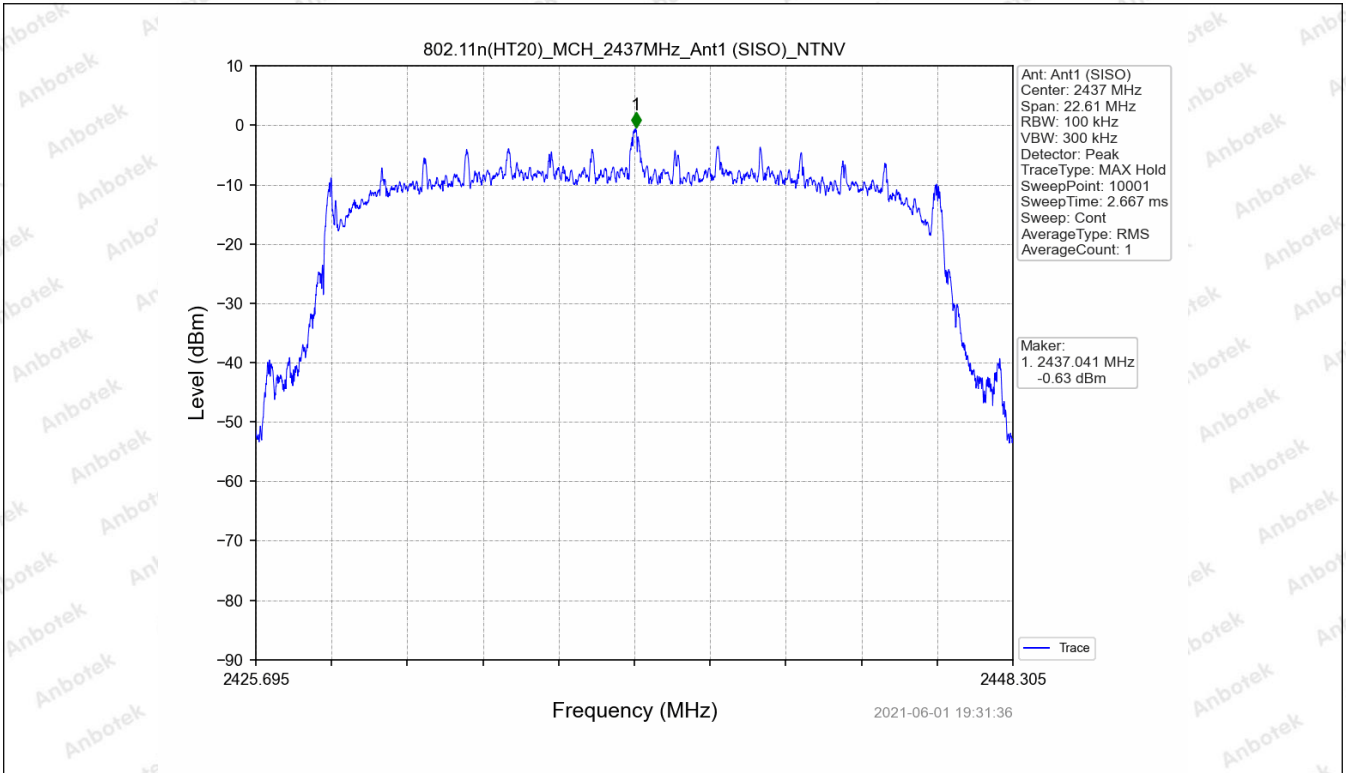
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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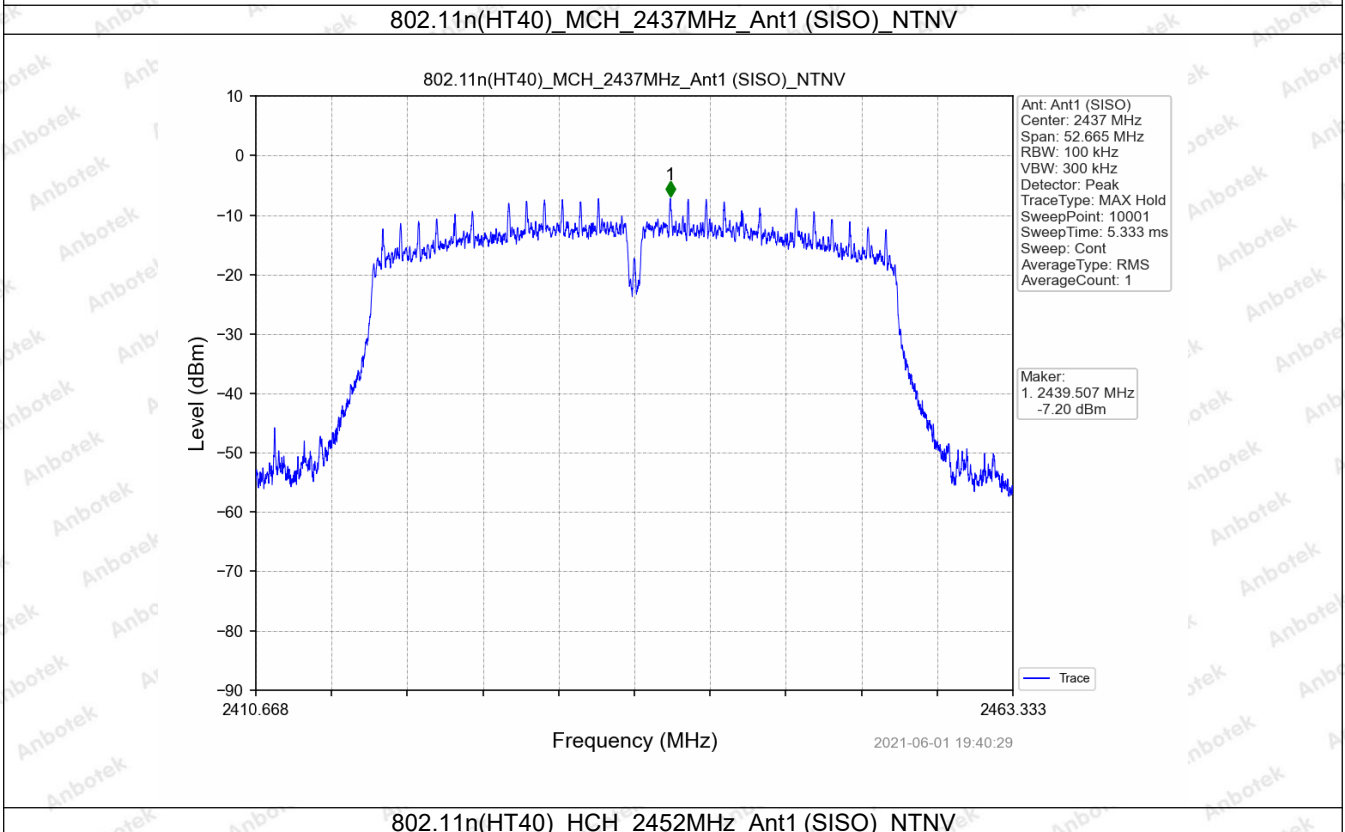
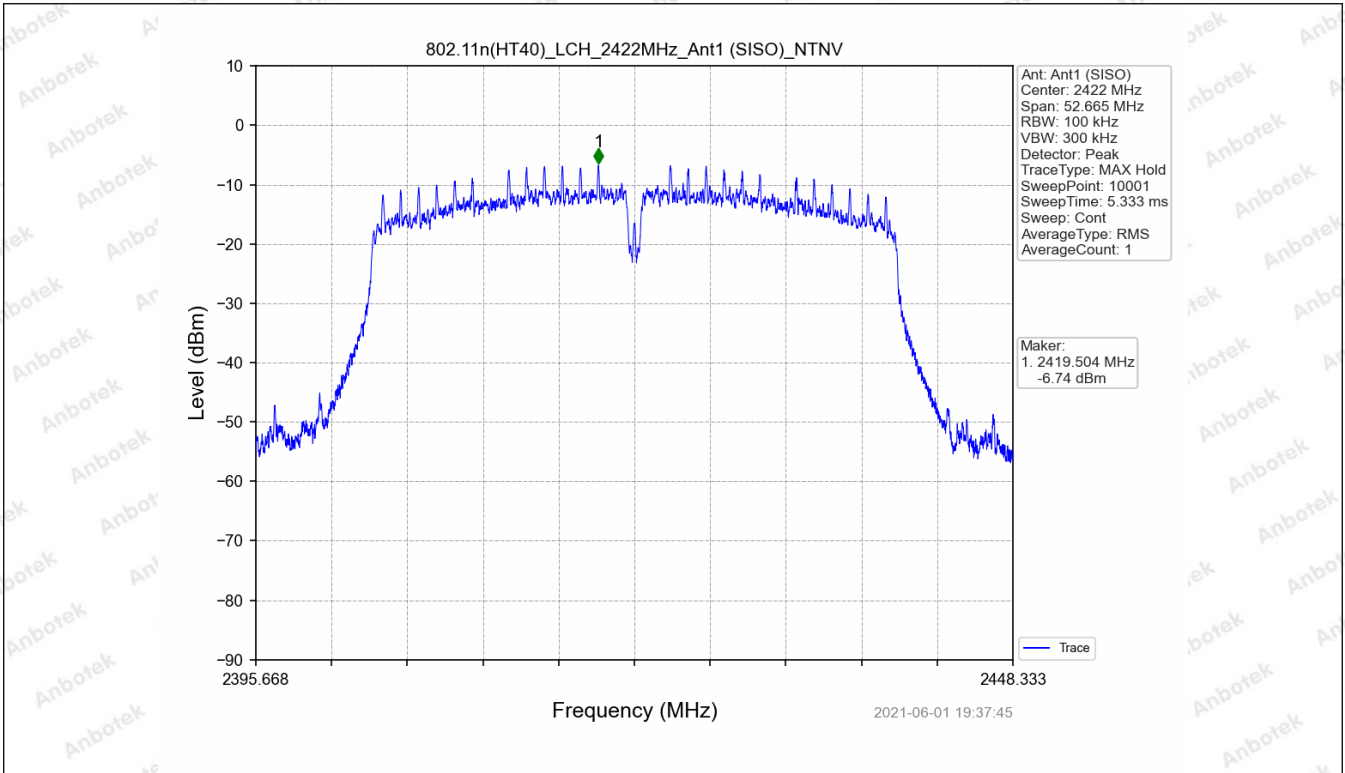
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

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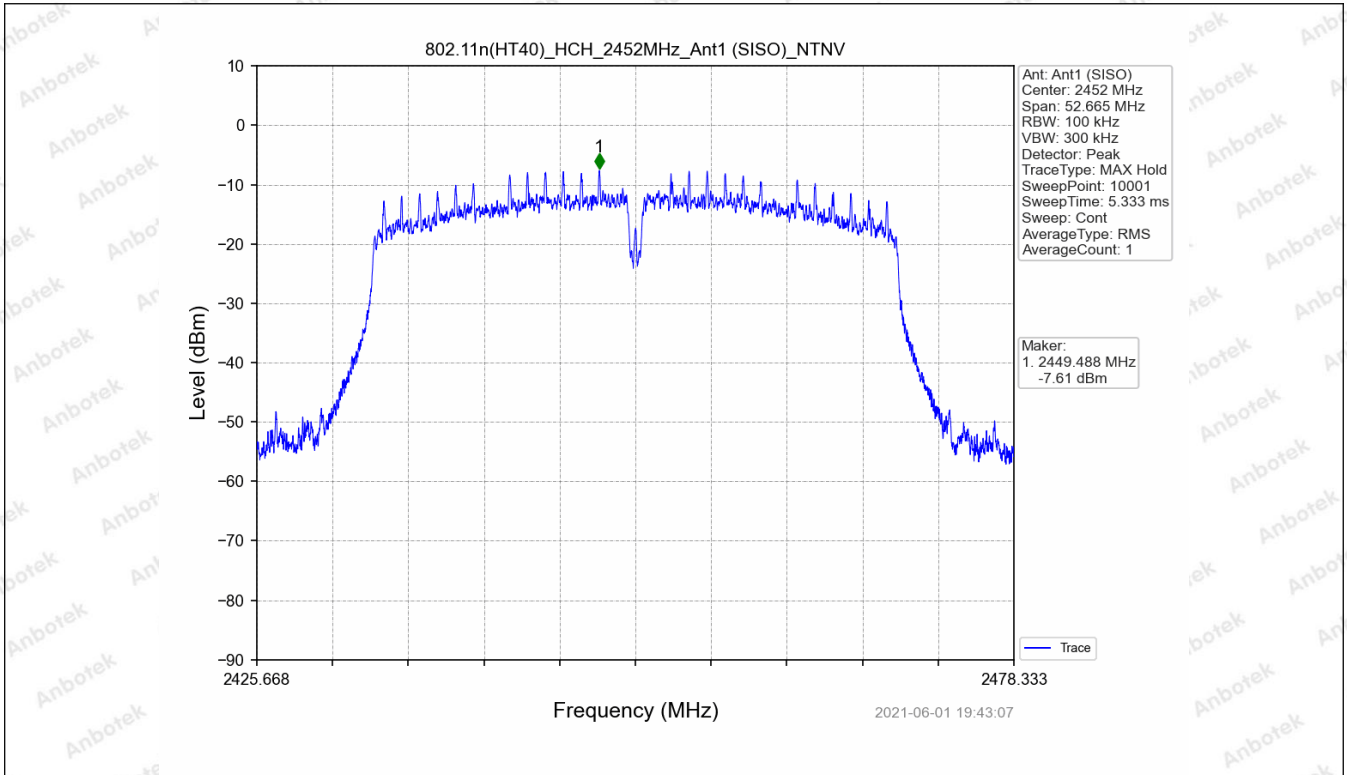
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

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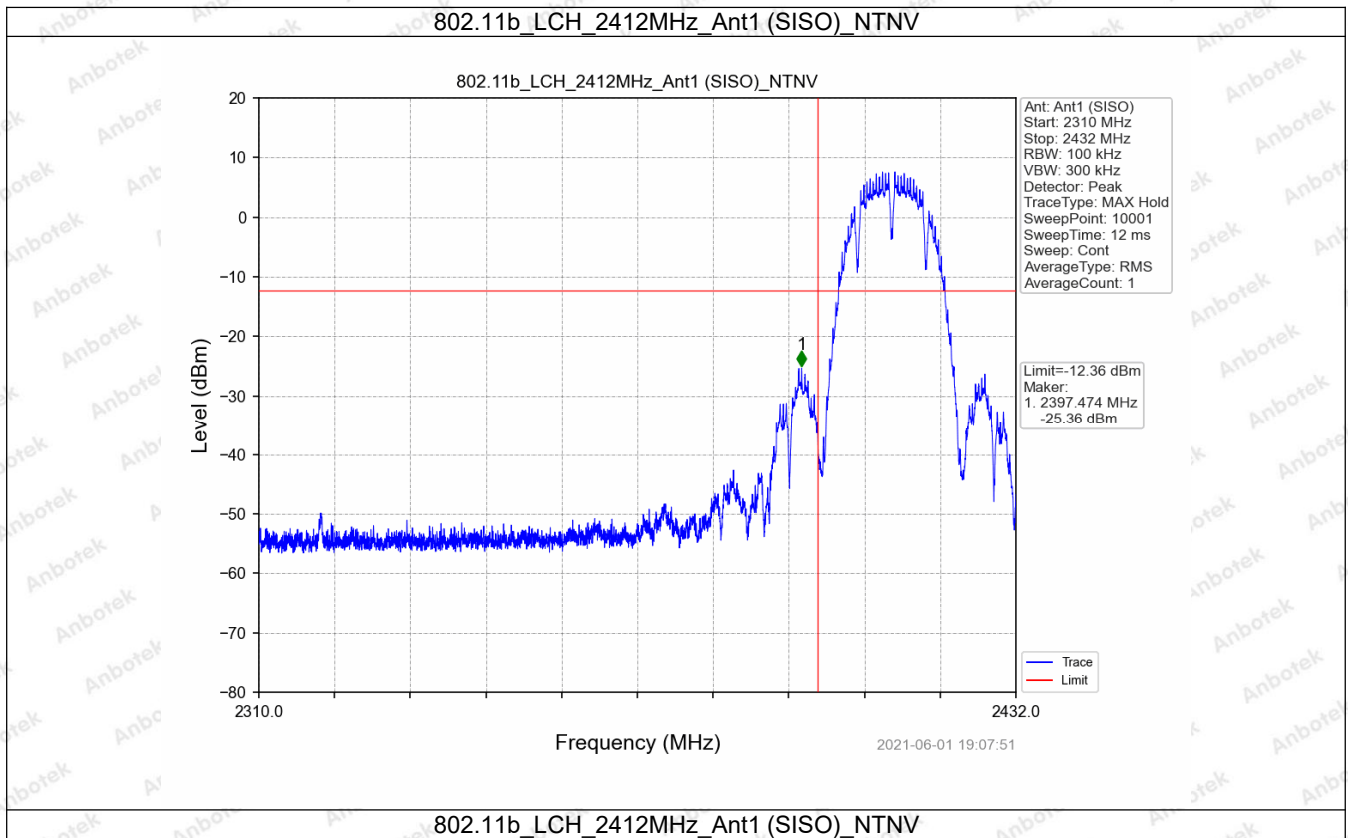
5.2 CSE

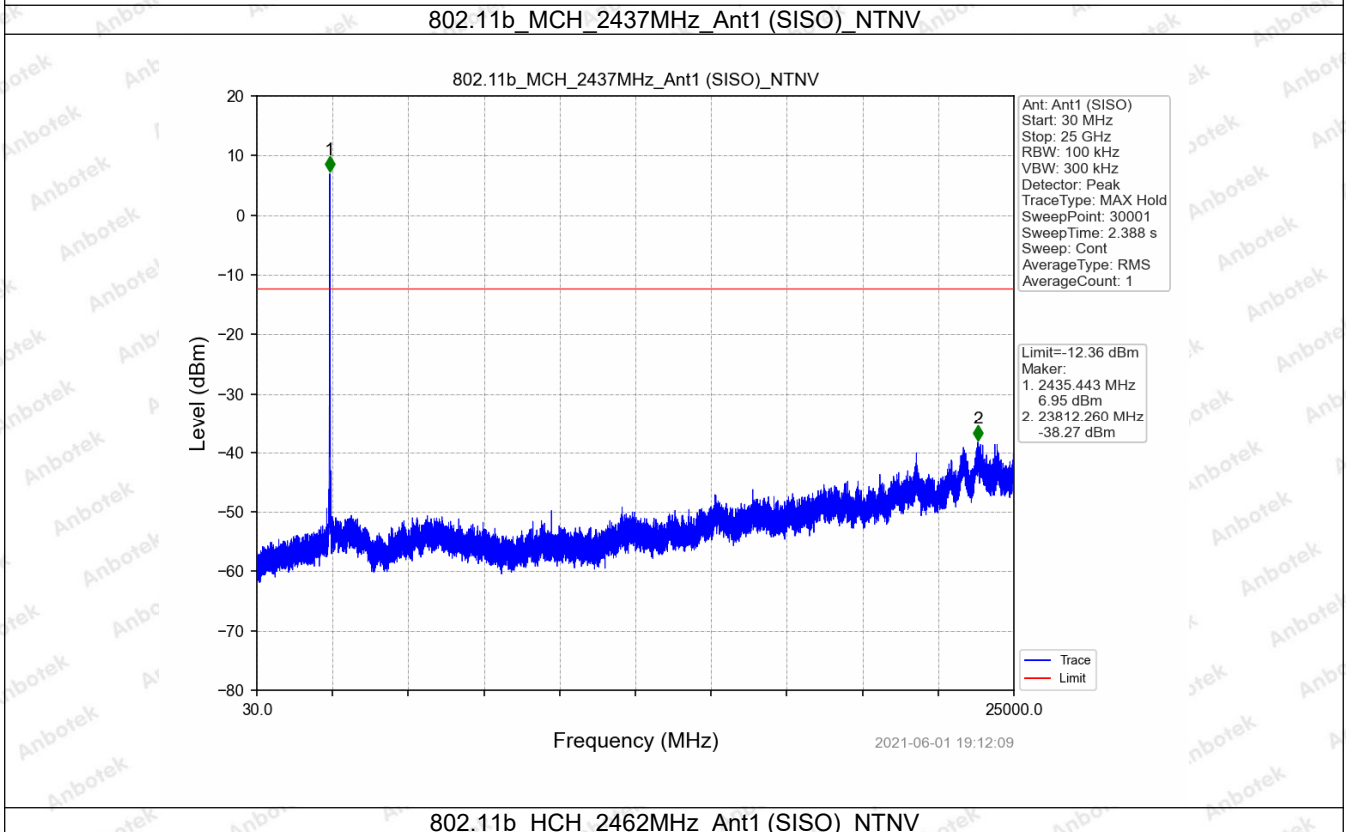
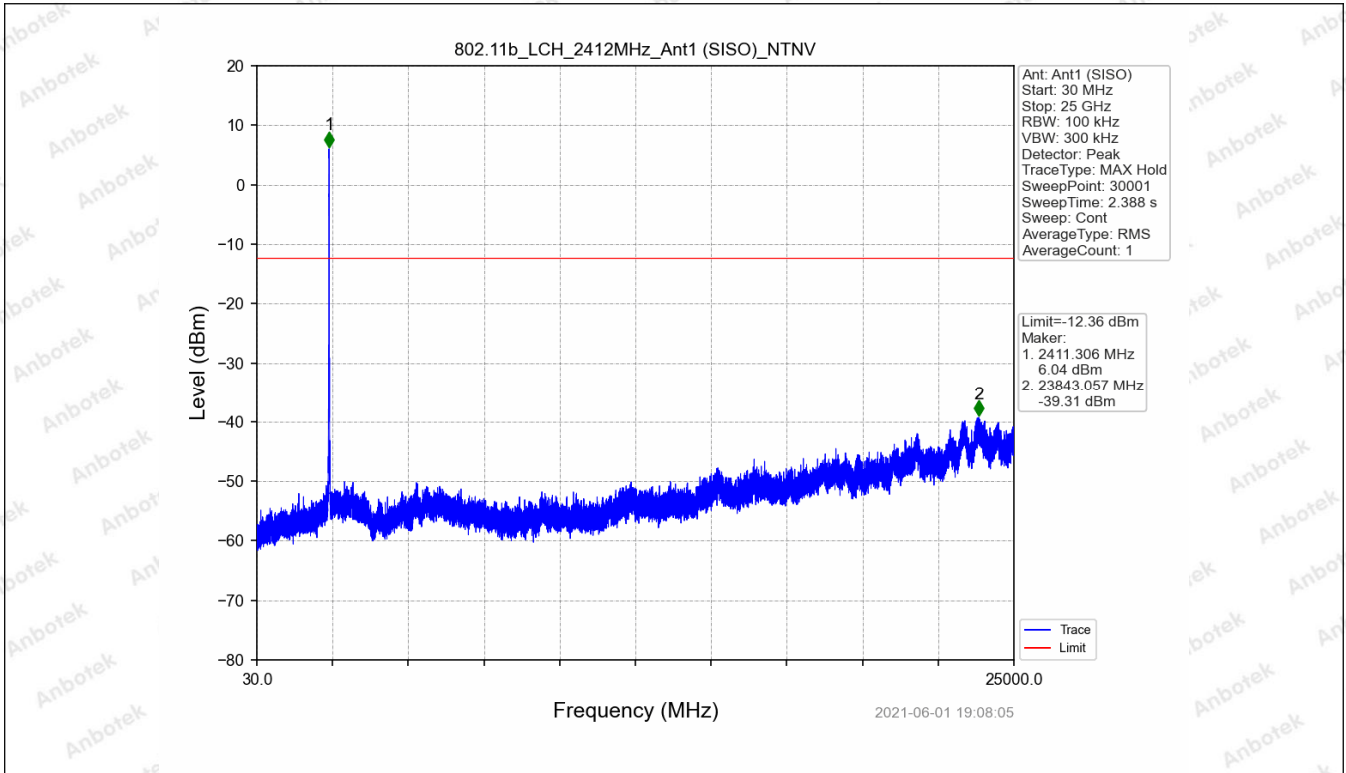
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	<=-12.36	Pass
		2437	/	/	1	Refer To Test Graph	<=-12.36	Pass
		2462	/	/	1	Refer To Test Graph	<=-12.36	Pass
802.11g	SISO	2412	/	/	1	Refer To Test Graph	<=-22.76	Pass
		2437	/	/	1	Refer To Test Graph	<=-22.76	Pass
		2462	/	/	1	Refer To Test Graph	<=-22.76	Pass
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	<=-20.09	Pass
		2437	/	/	1	Refer To Test Graph	<=-20.09	Pass
		2462	/	/	1	Refer To Test Graph	<=-20.09	Pass
802.11n (HT40)	SISO	2422	/	/	1	Refer To Test Graph	<=-20.09	Pass
		2437	/	/	1	Refer To Test Graph	<=-20.09	Pass
		2452	/	/	1	Refer To Test Graph	<=-20.09	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






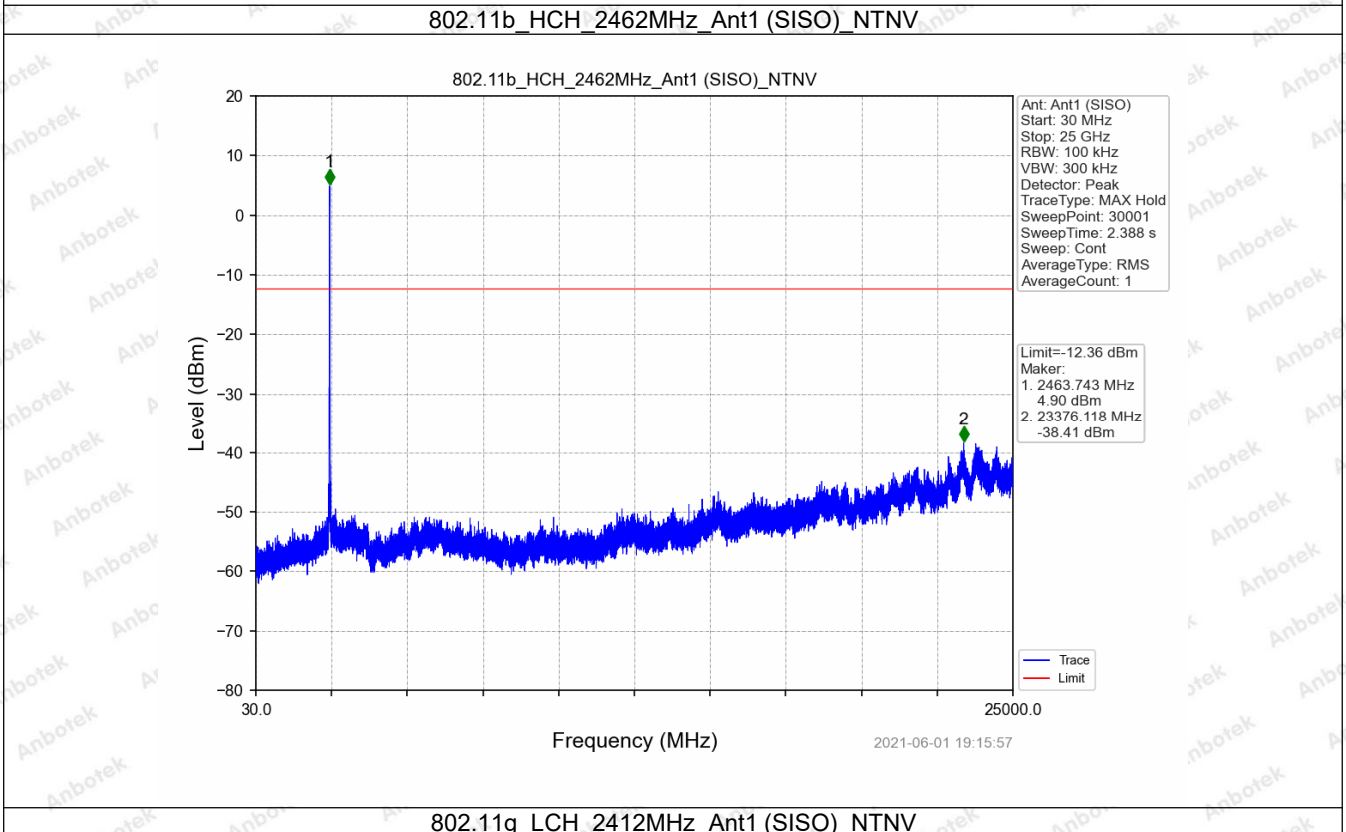
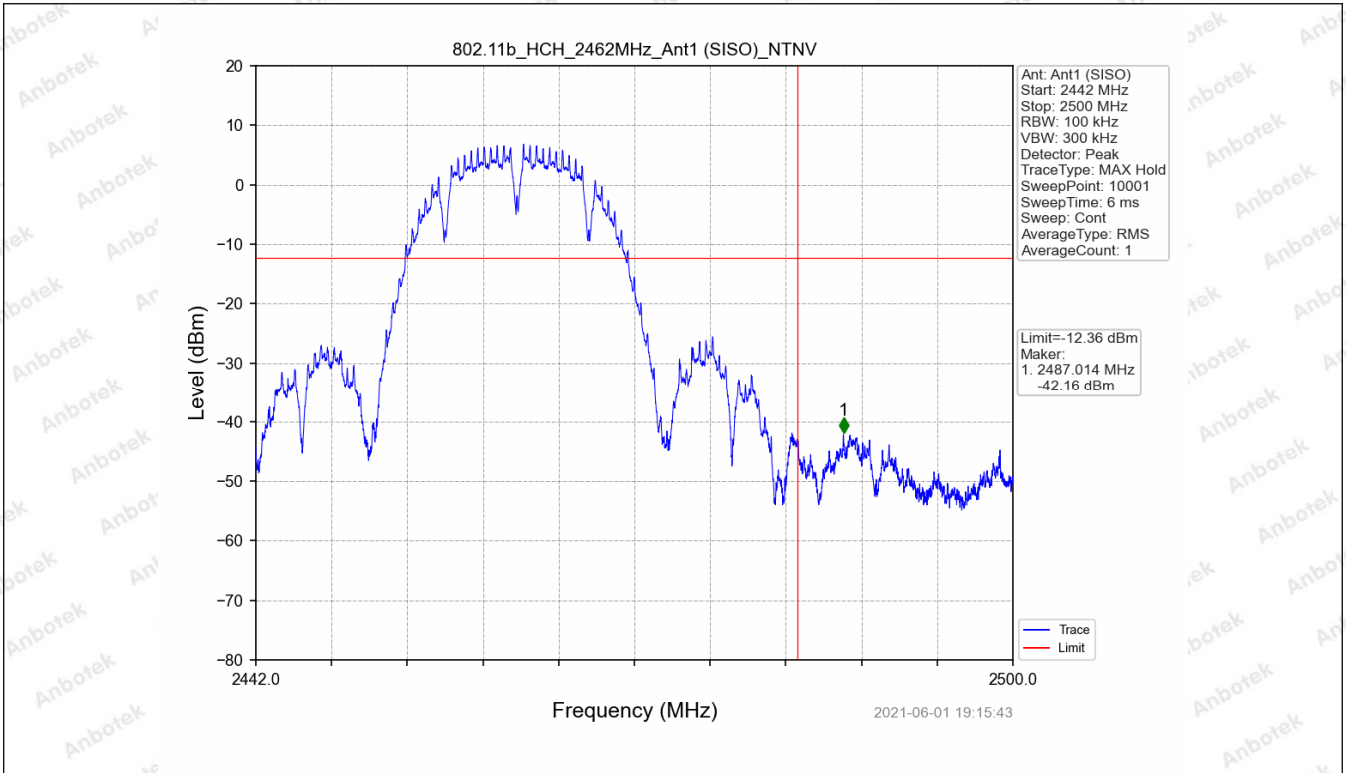
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

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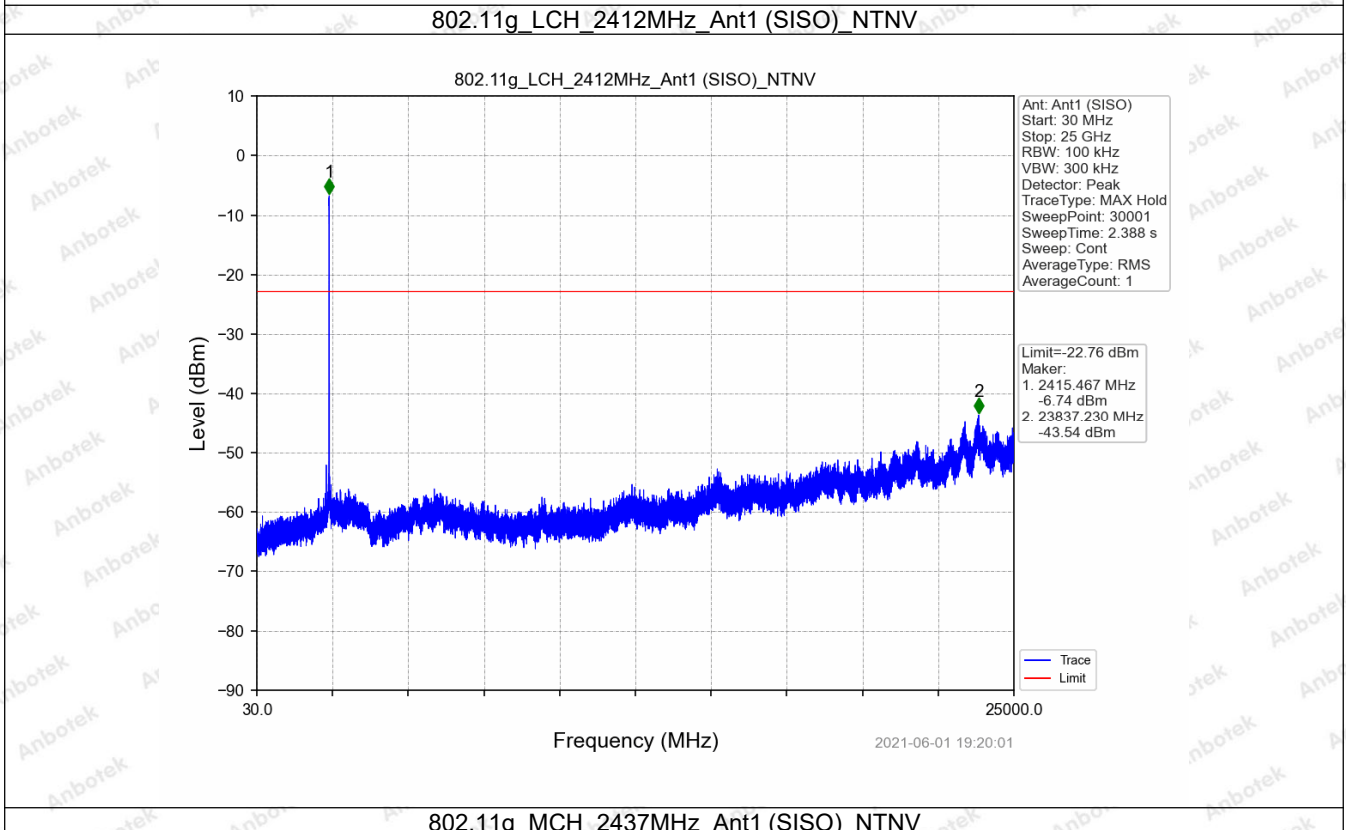
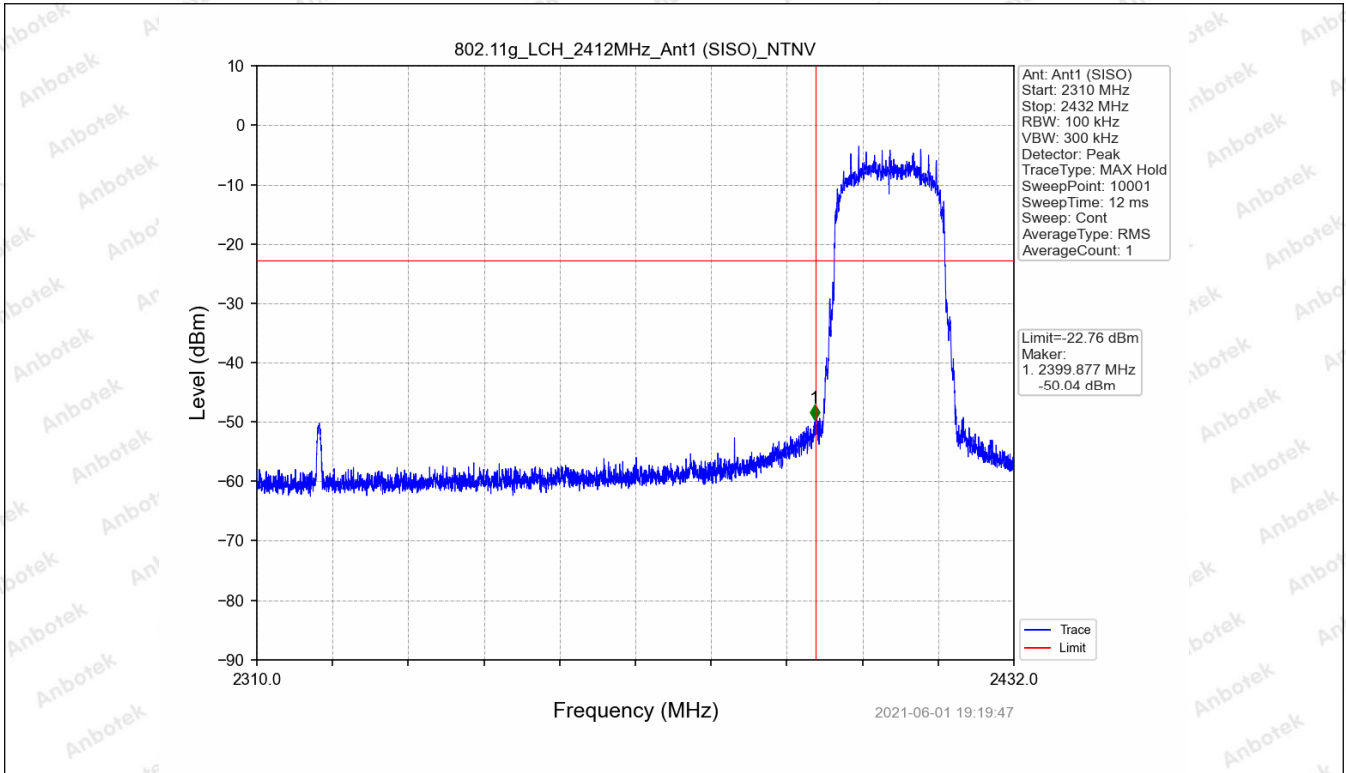
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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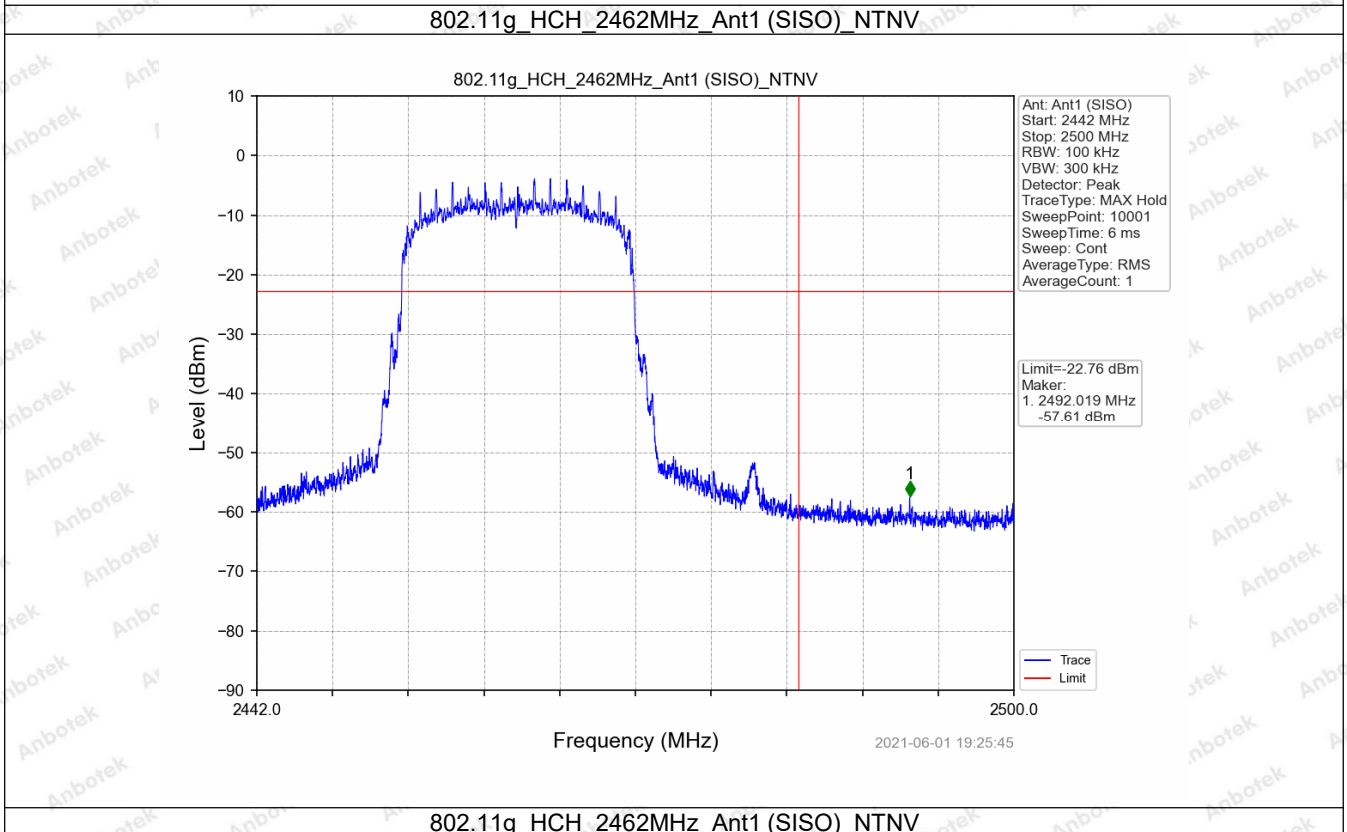
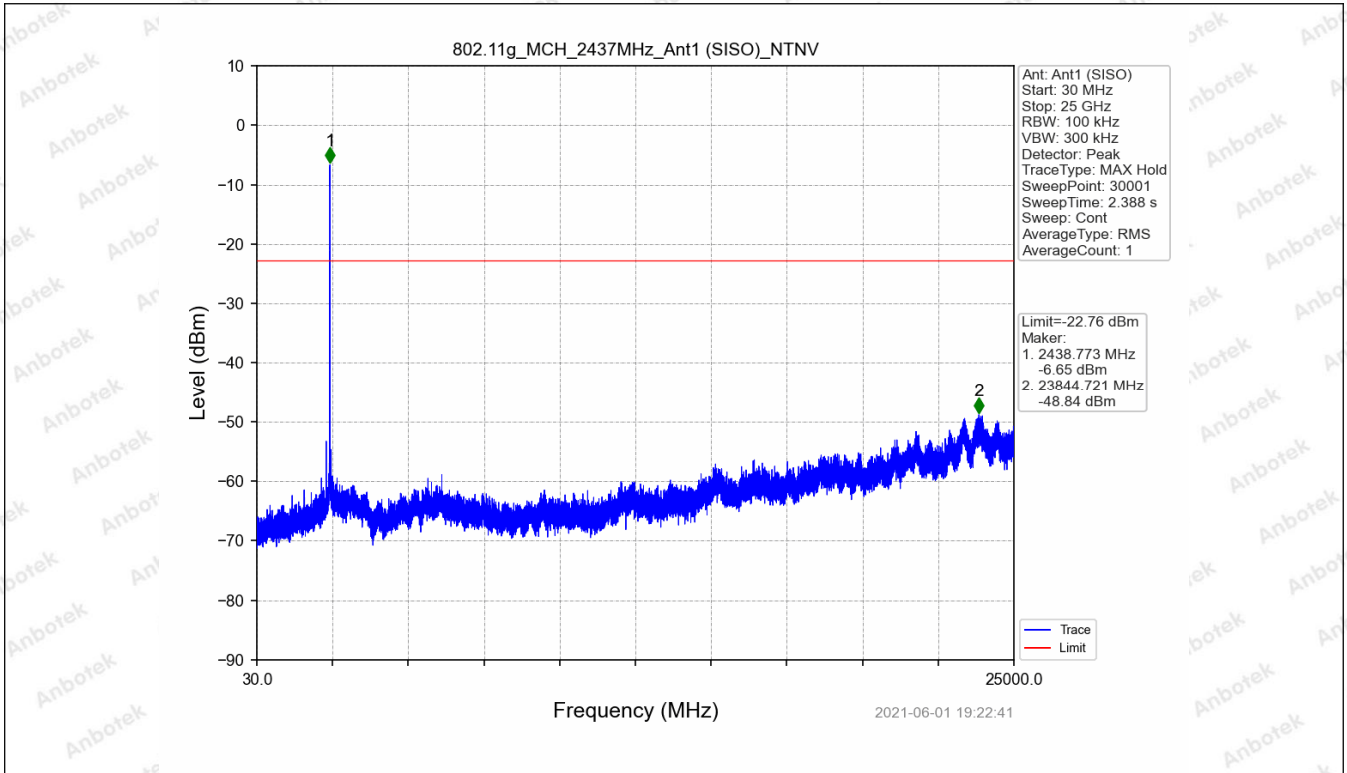
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

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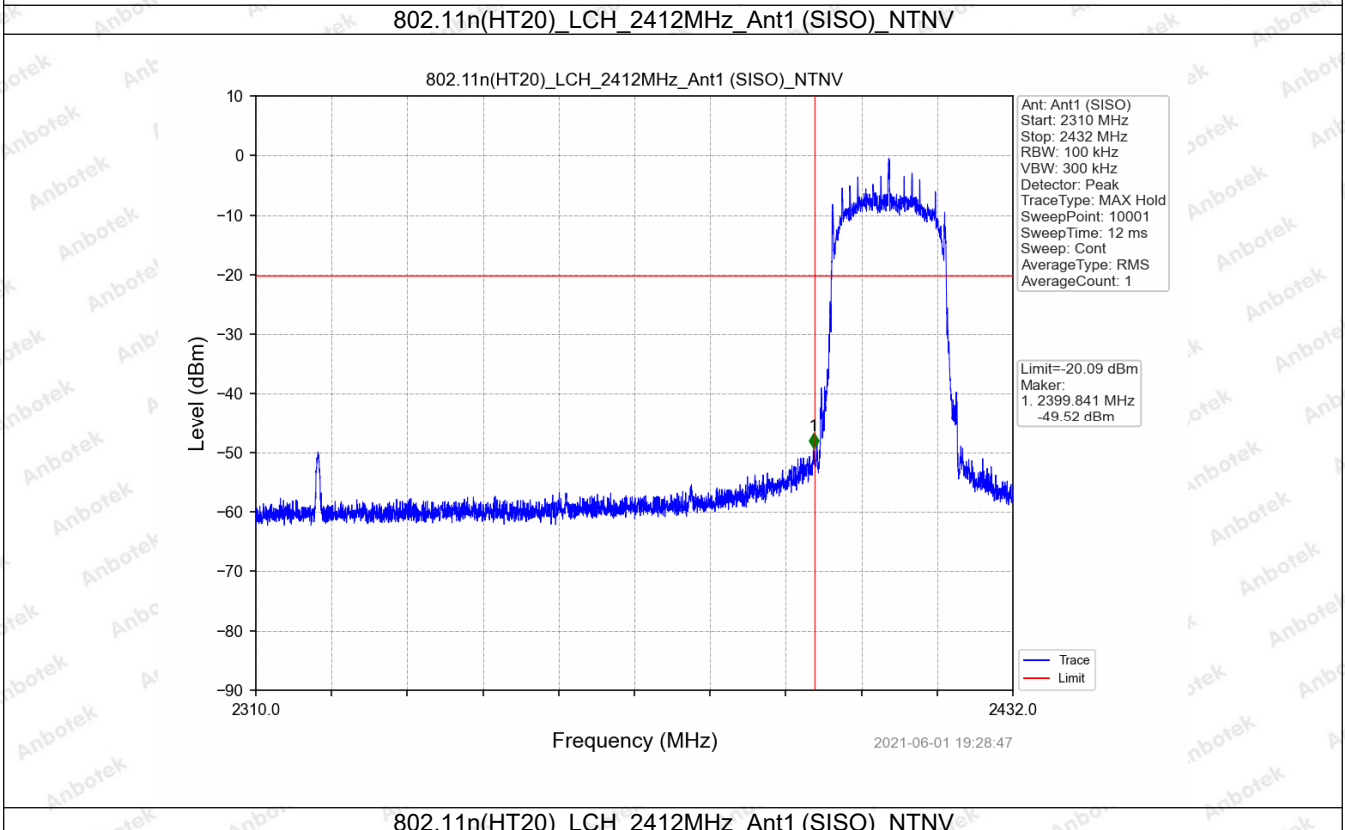
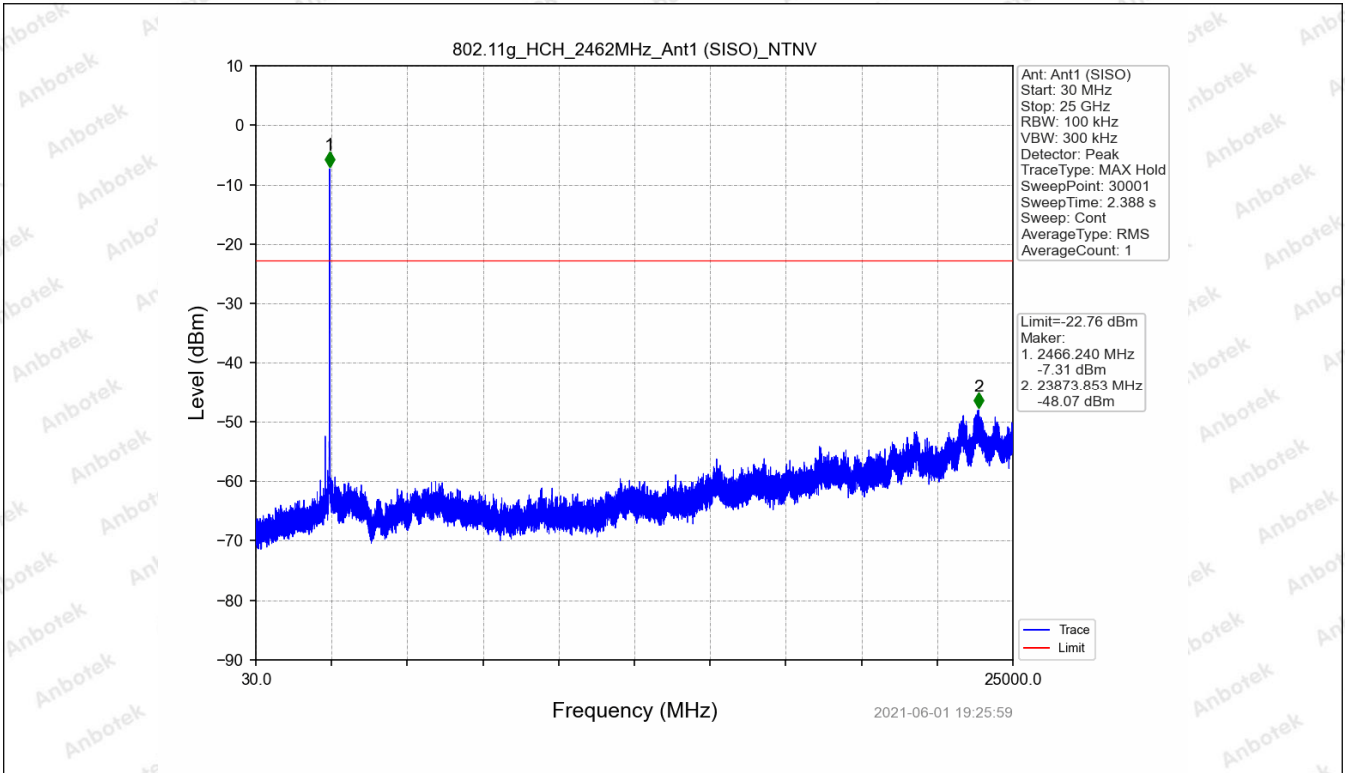
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



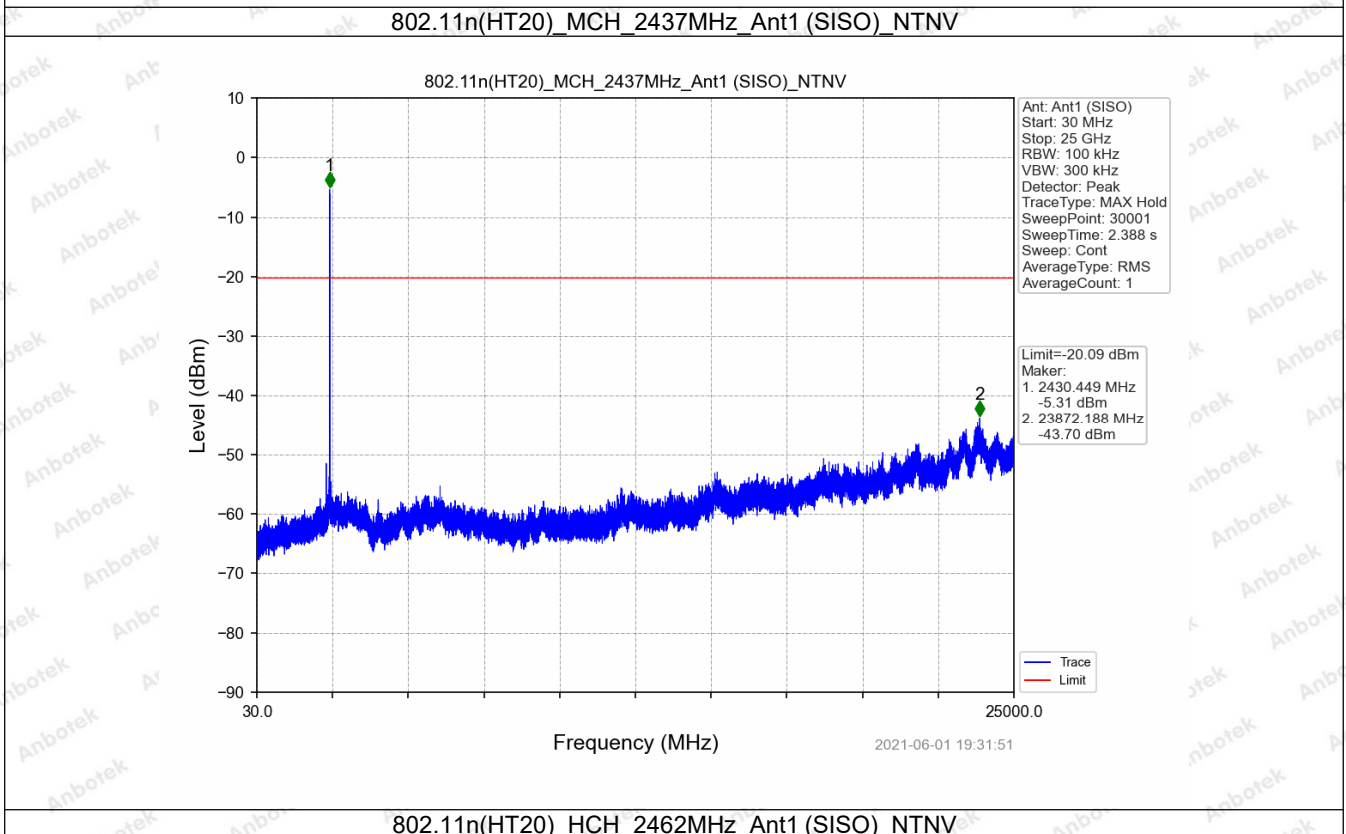
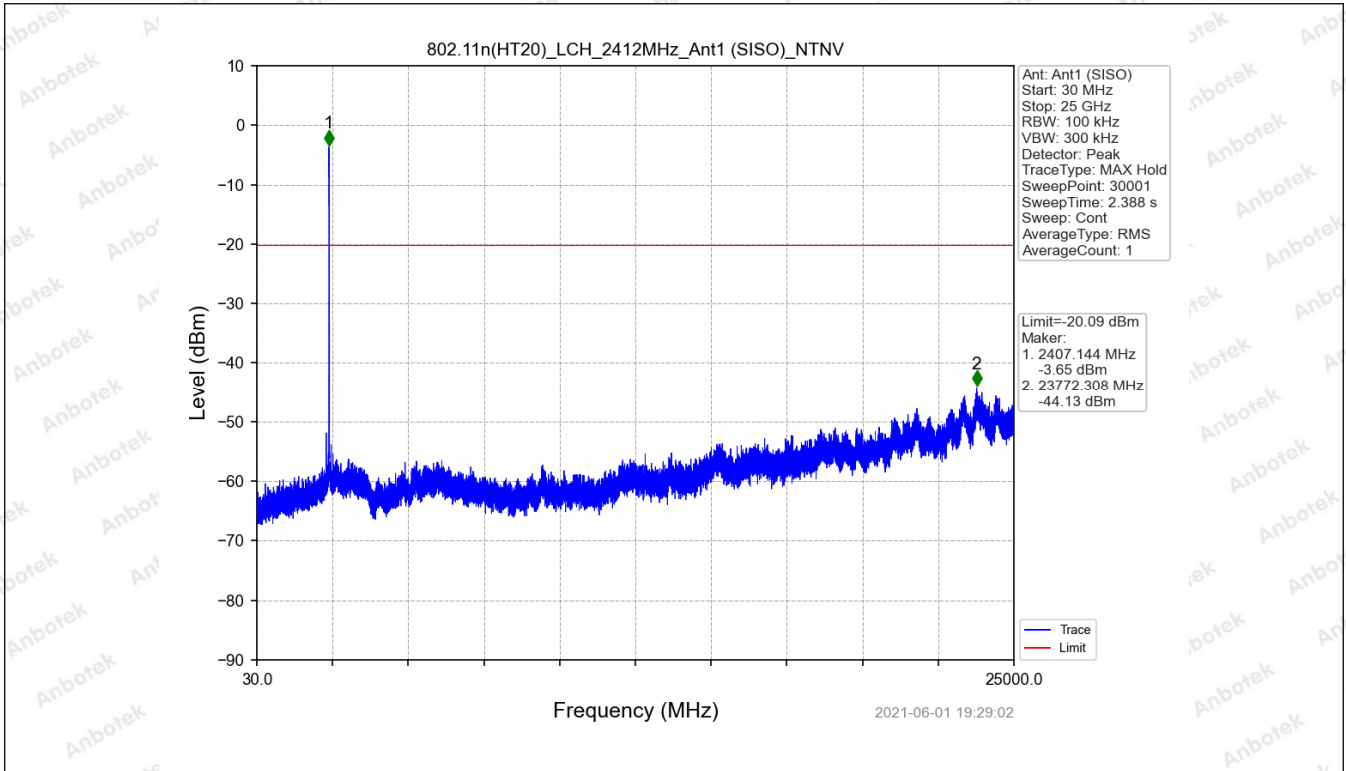
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

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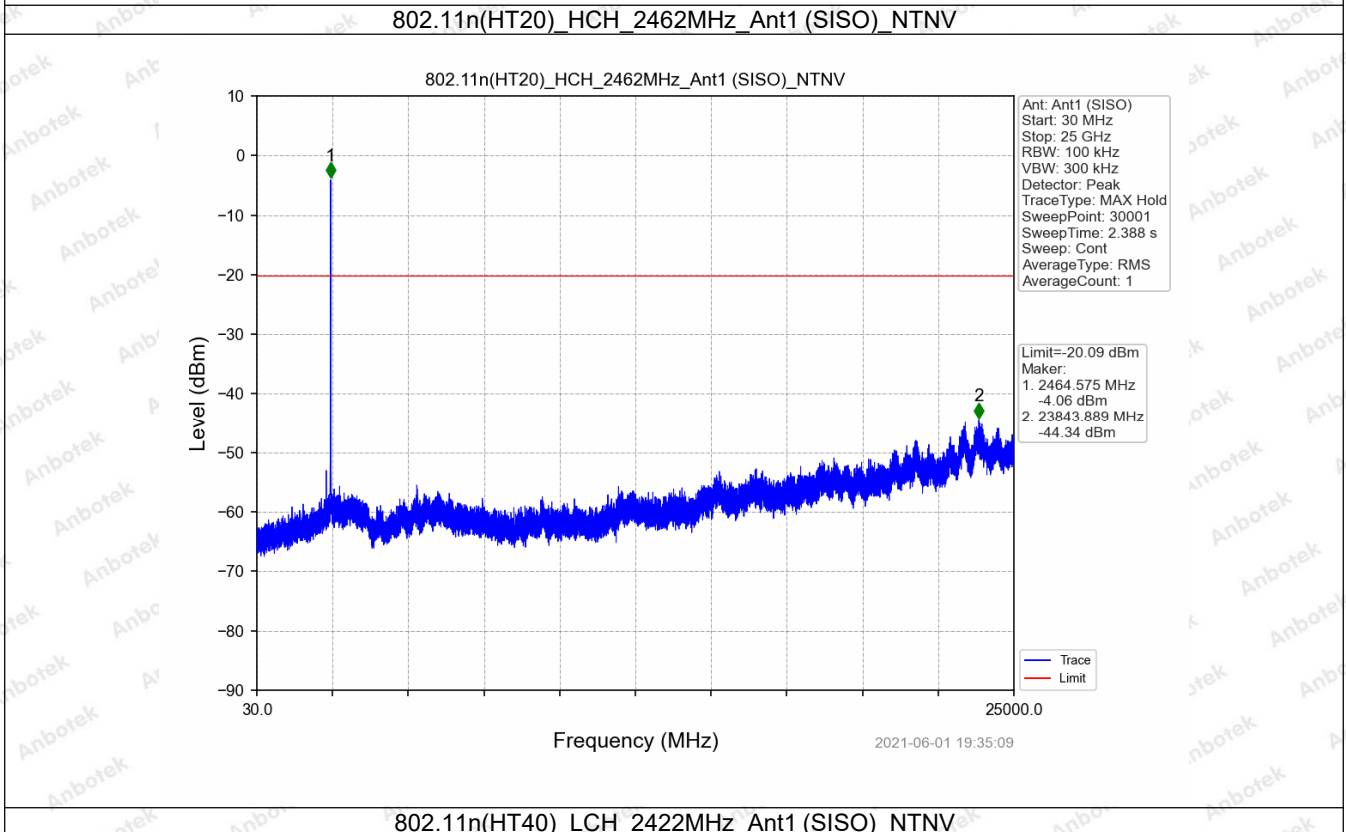
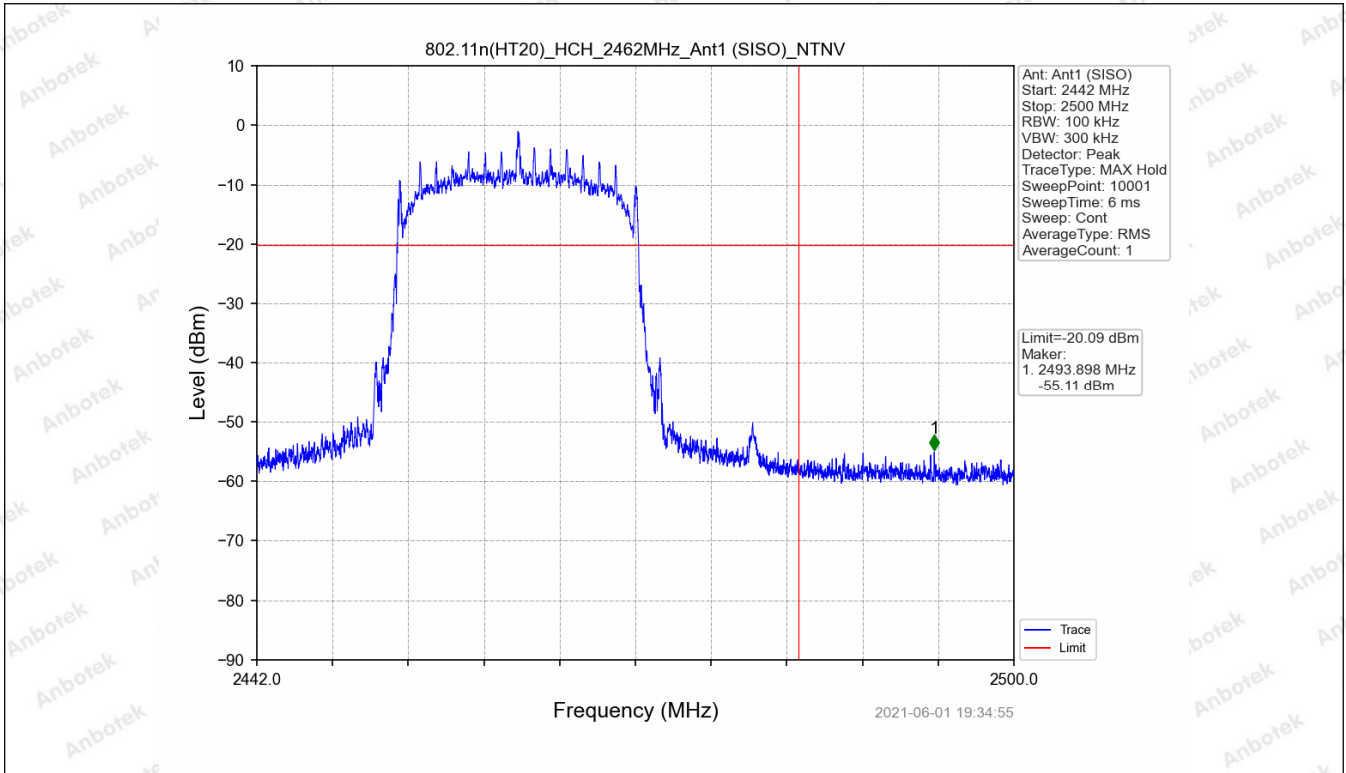
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

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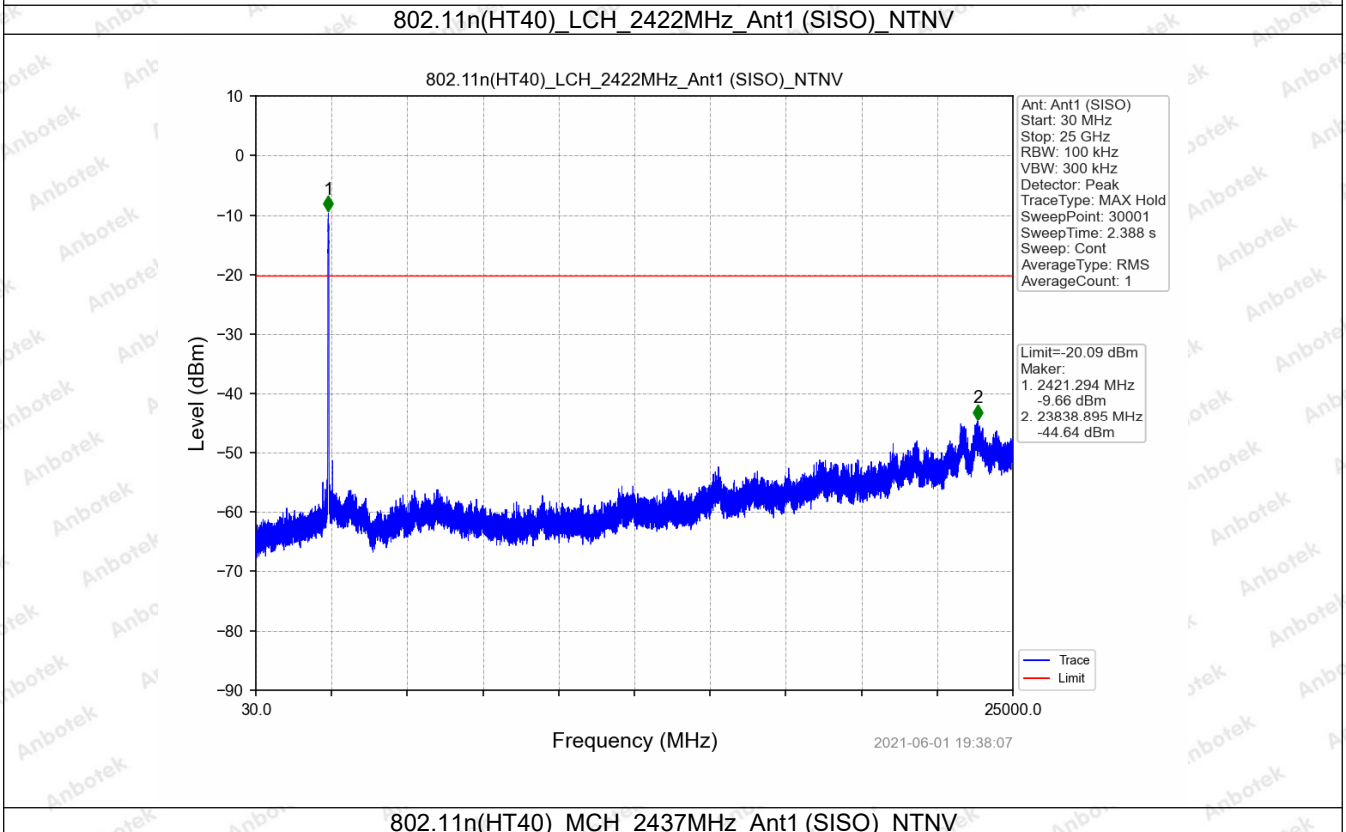
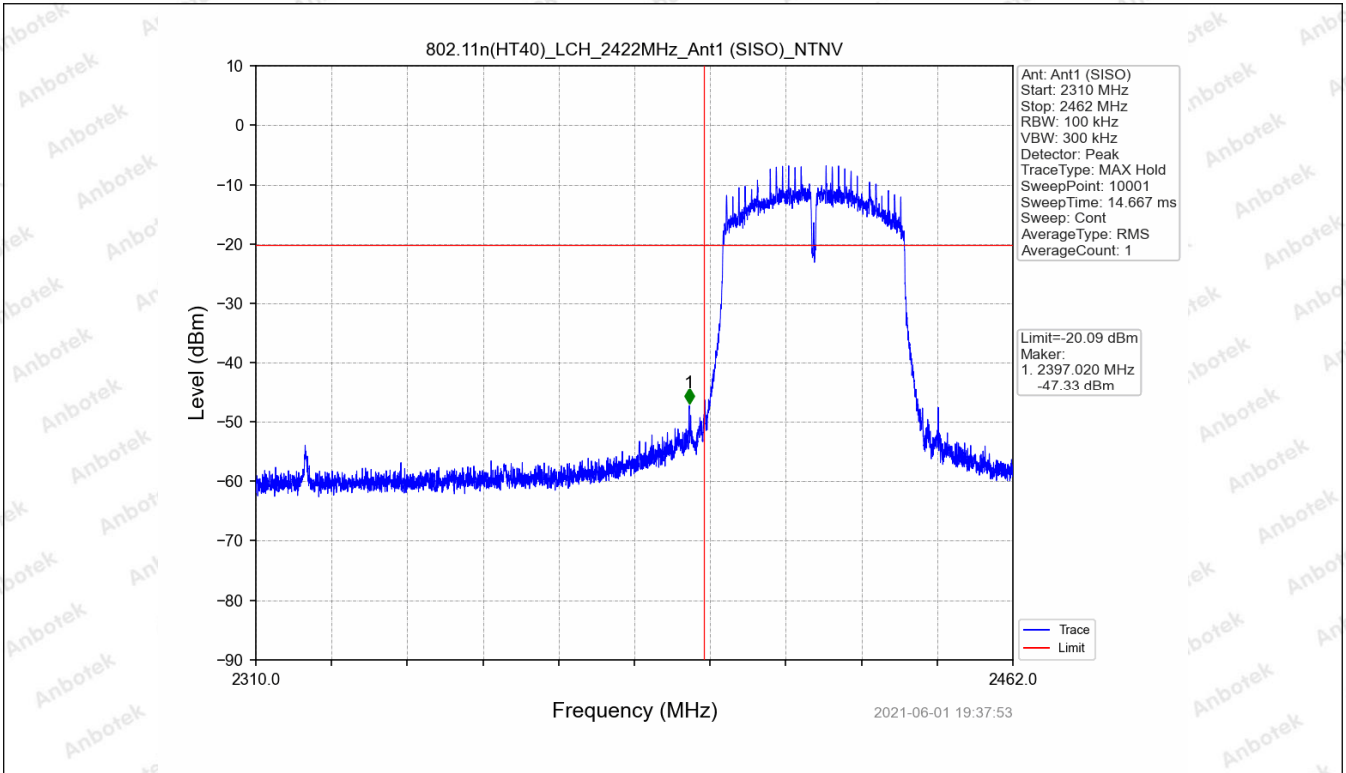
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

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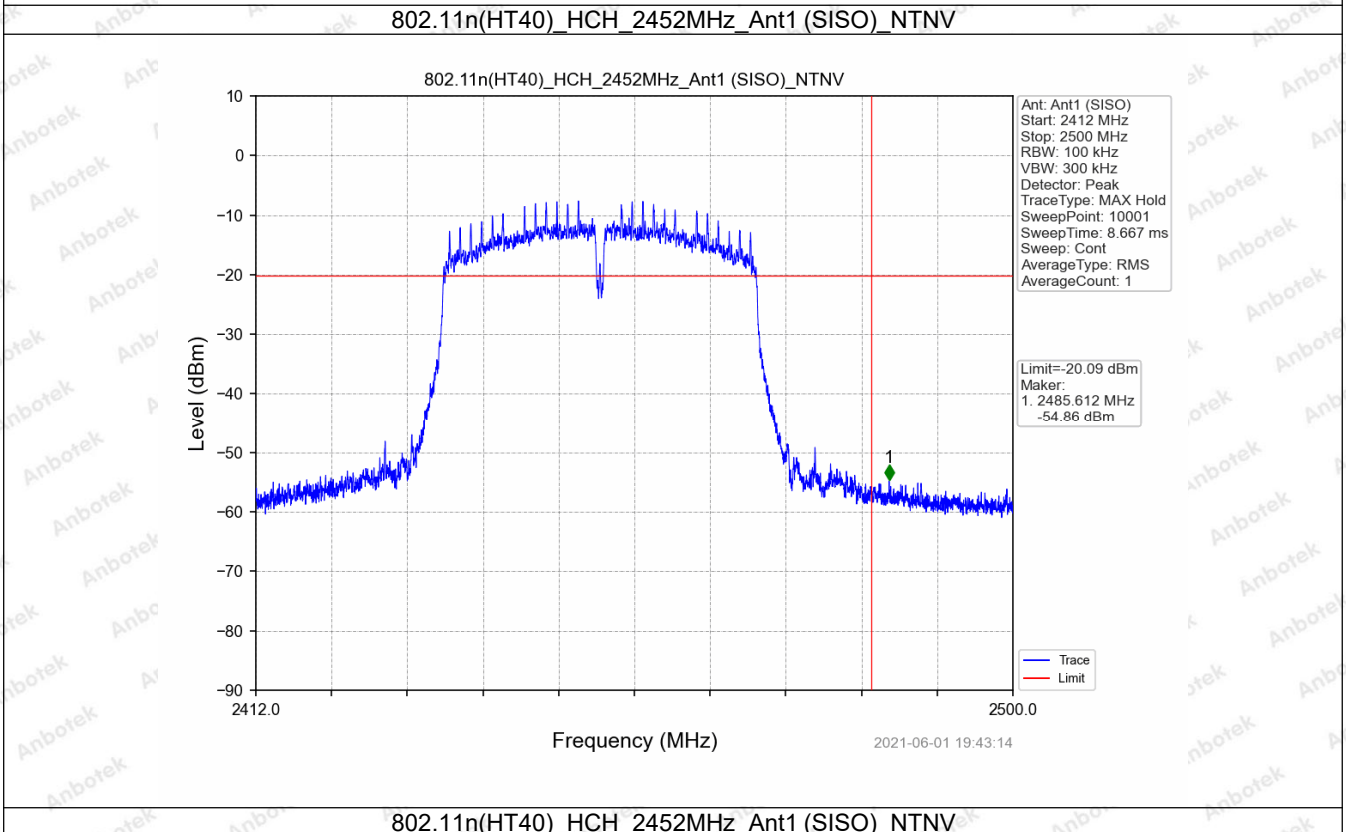
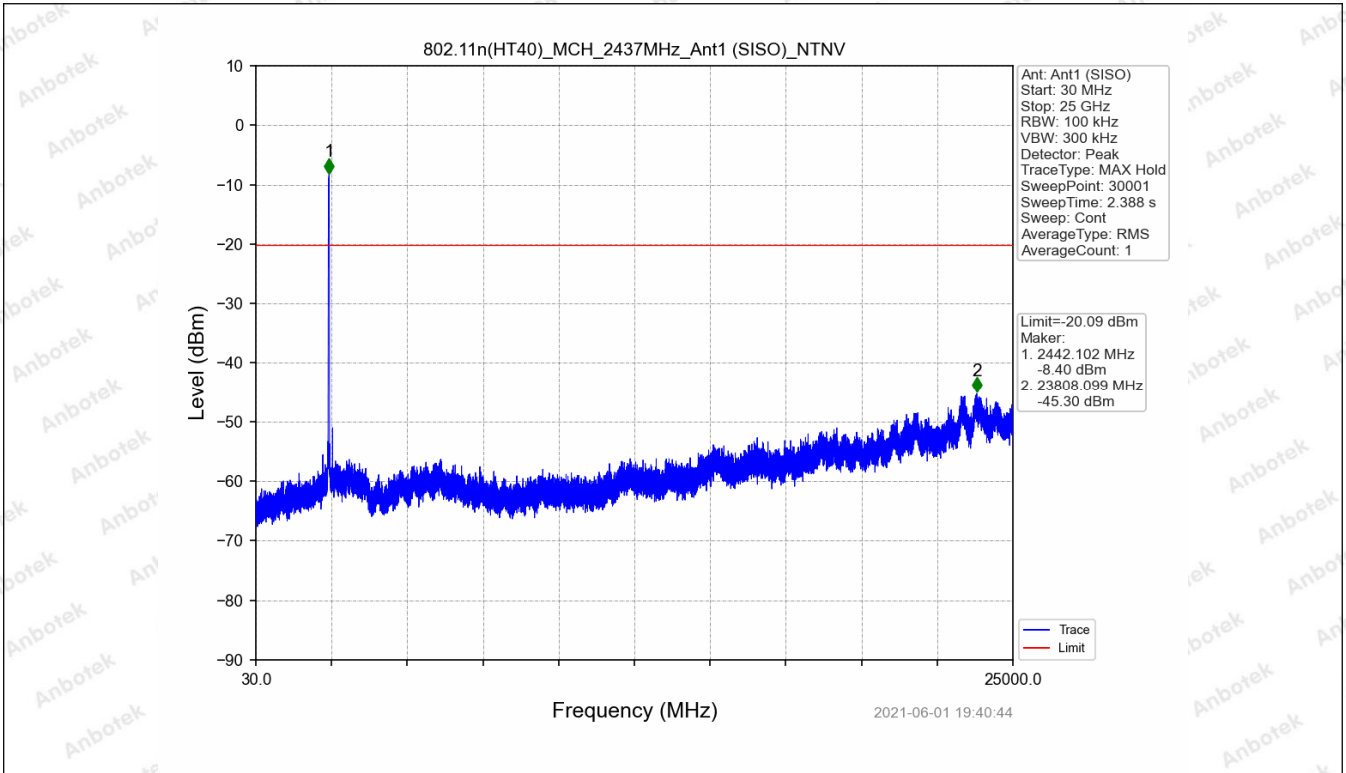
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

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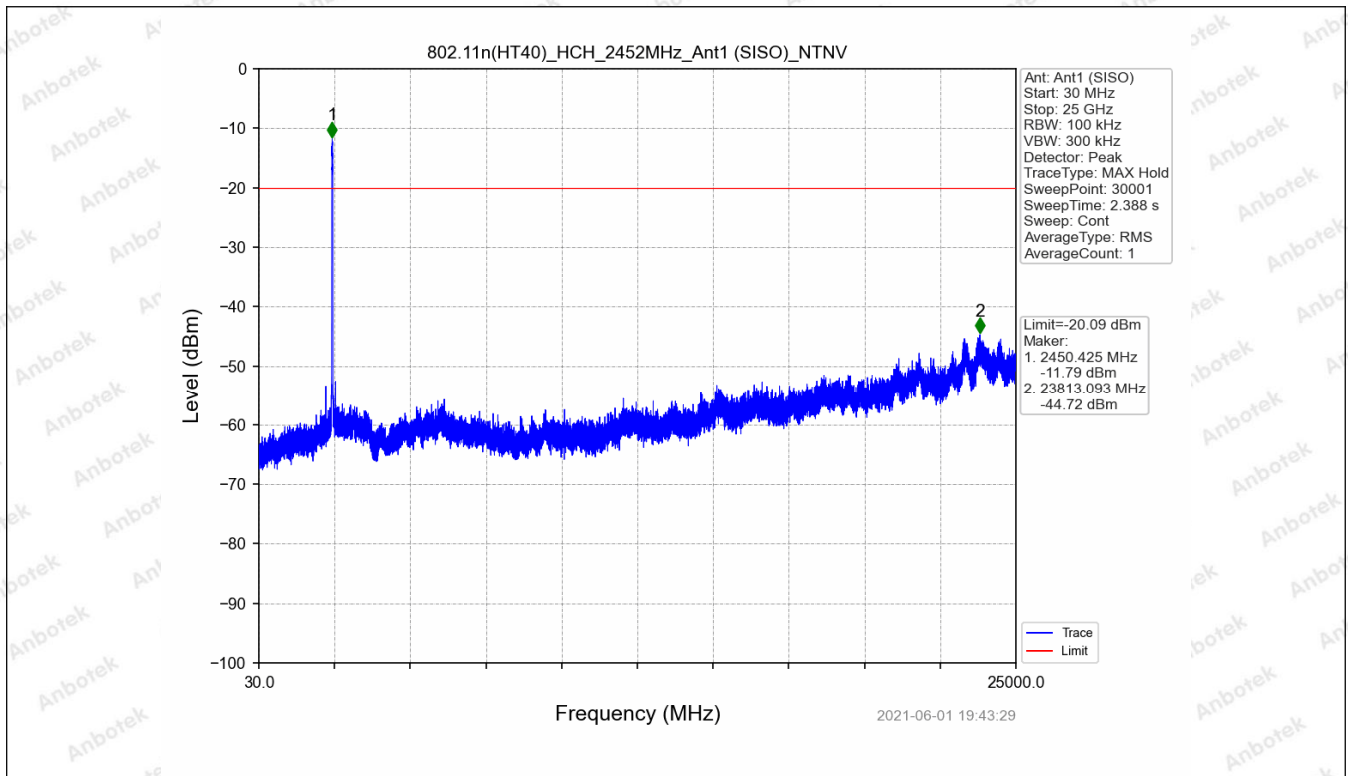
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



---End---