

Appendix Test Data

Report No.:	18220WC10100801	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		

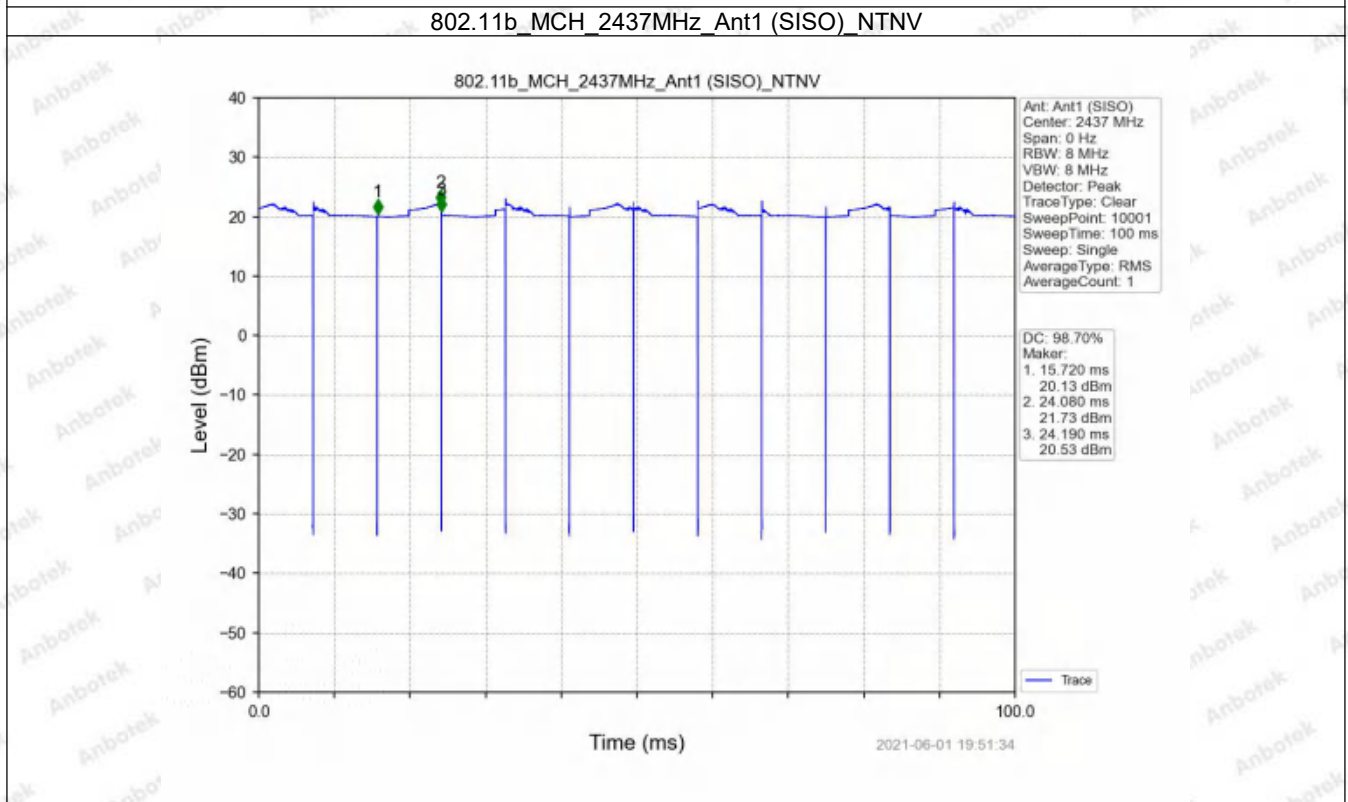
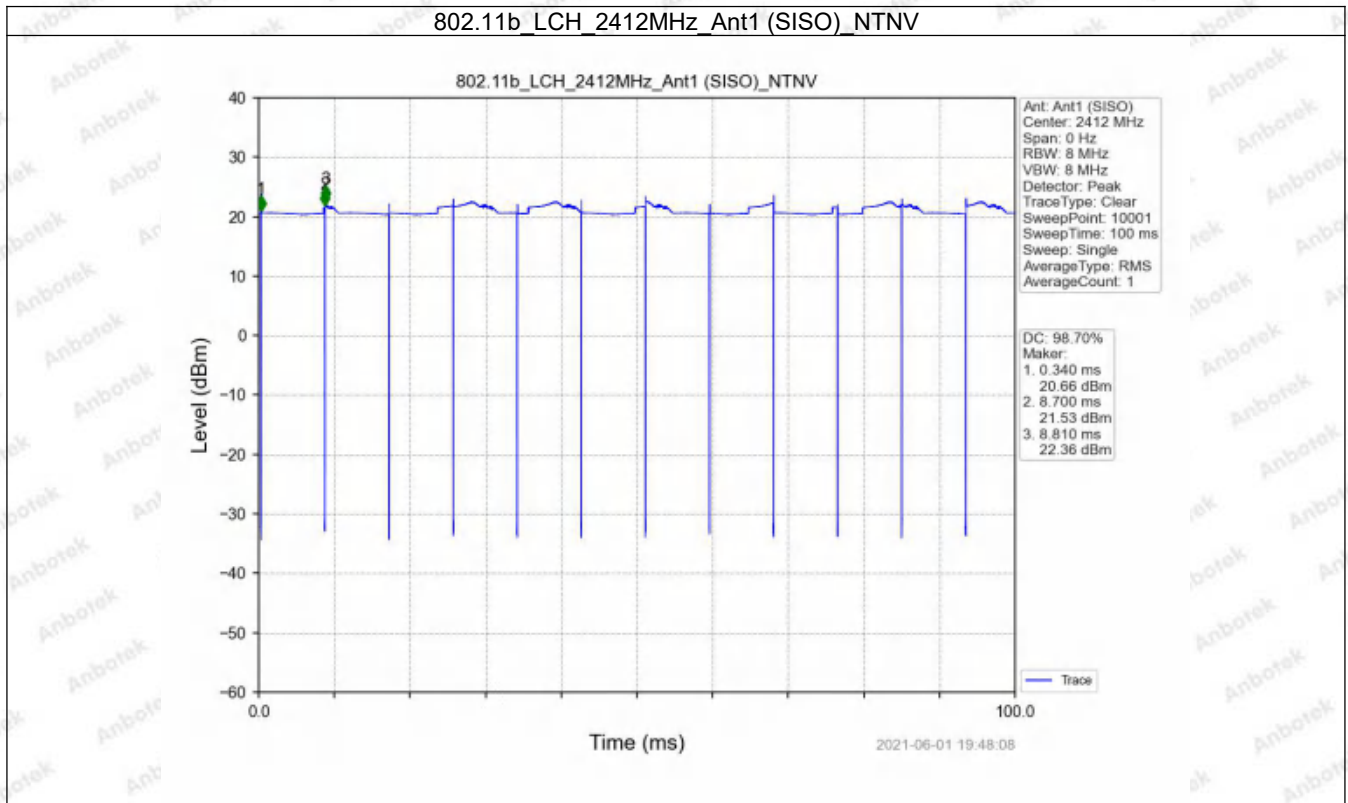
1. Duty Cycle

1.1 Ant1

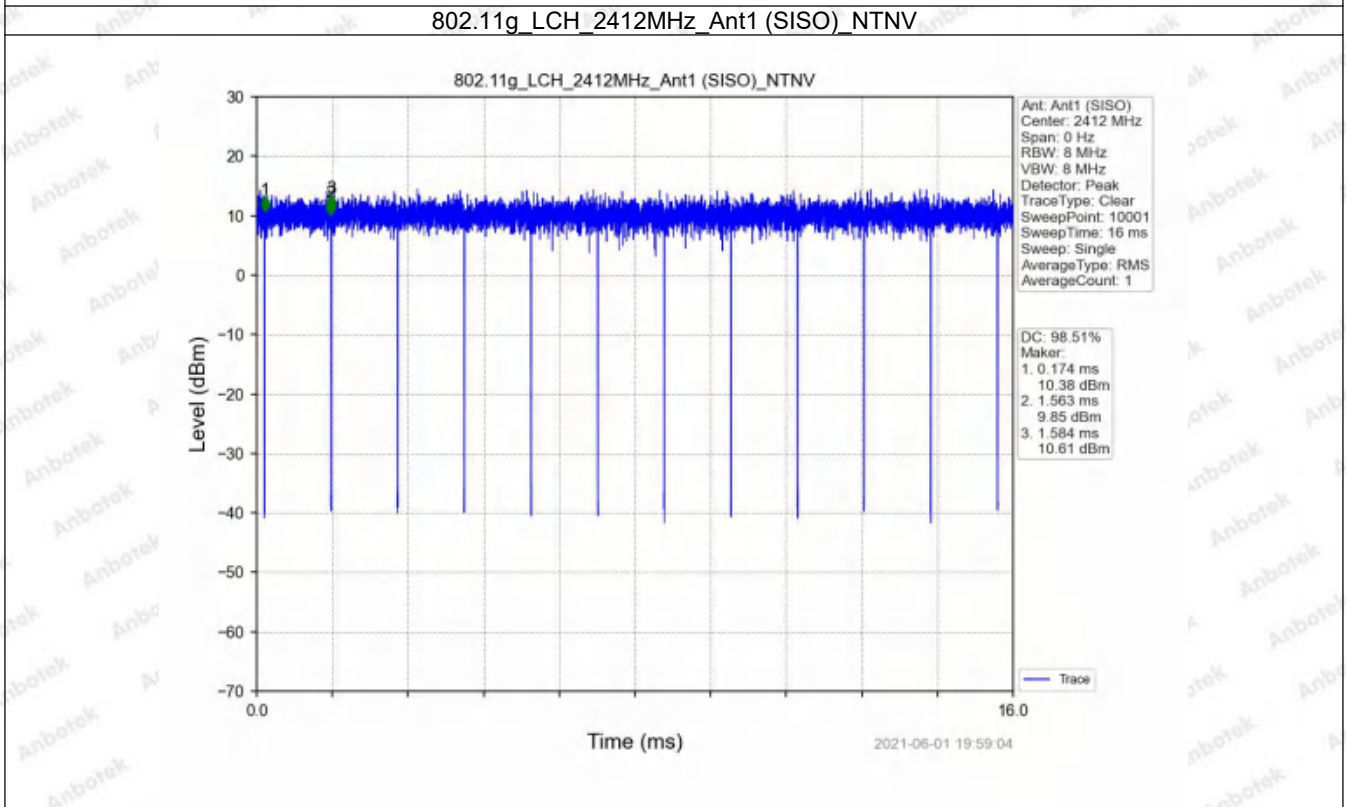
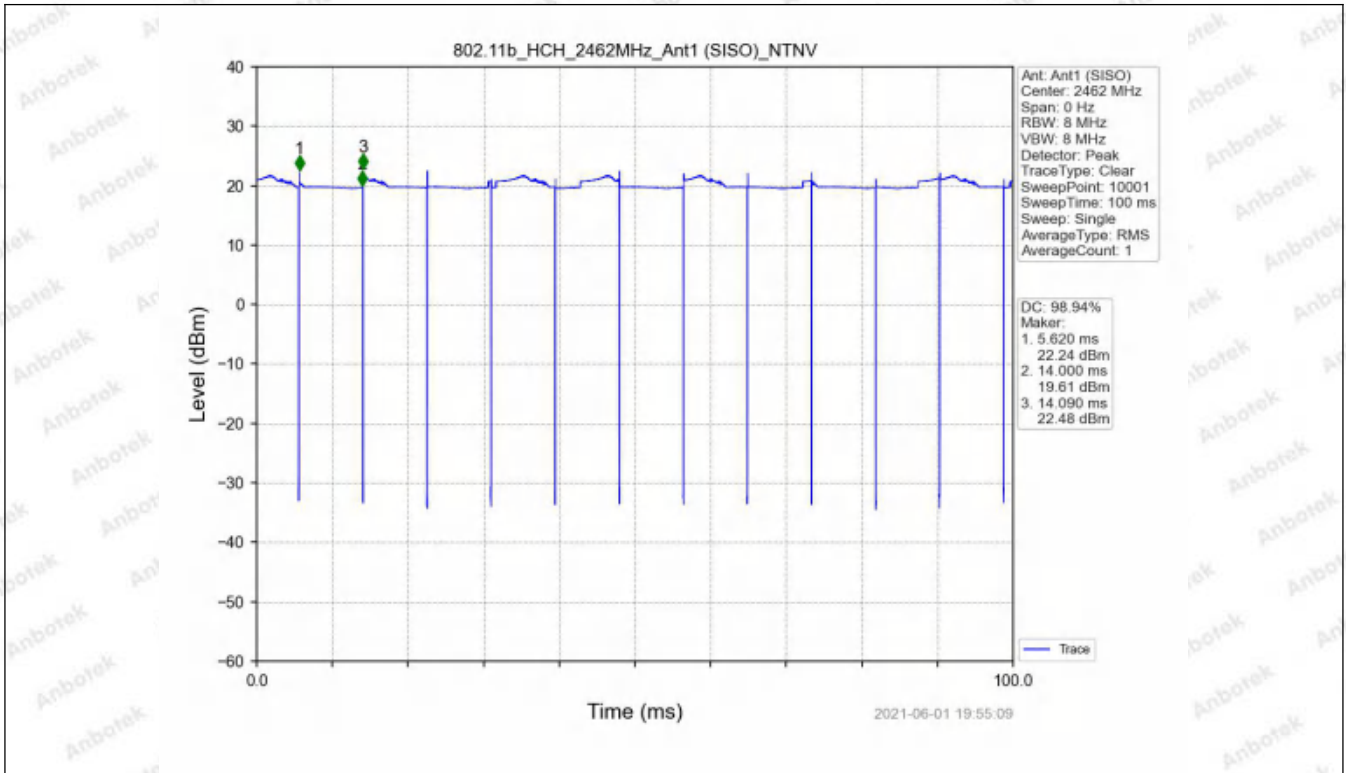
1.1.1 Test Result

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	0.12
		2437	/	/	8.36	8.47	98.70	0.06	0.12
		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	98.51	0.07	0.10
		2462	/	/	1.39	1.41	98.44	0.07	0.11
802.11n (HT20)	SISO	2412	/	/	1.30	1.32	98.48	0.07	0.10
		2437	/	/	1.29	1.31	98.48	0.07	0.00
		2462	/	/	1.30	1.32	98.56	0.06	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

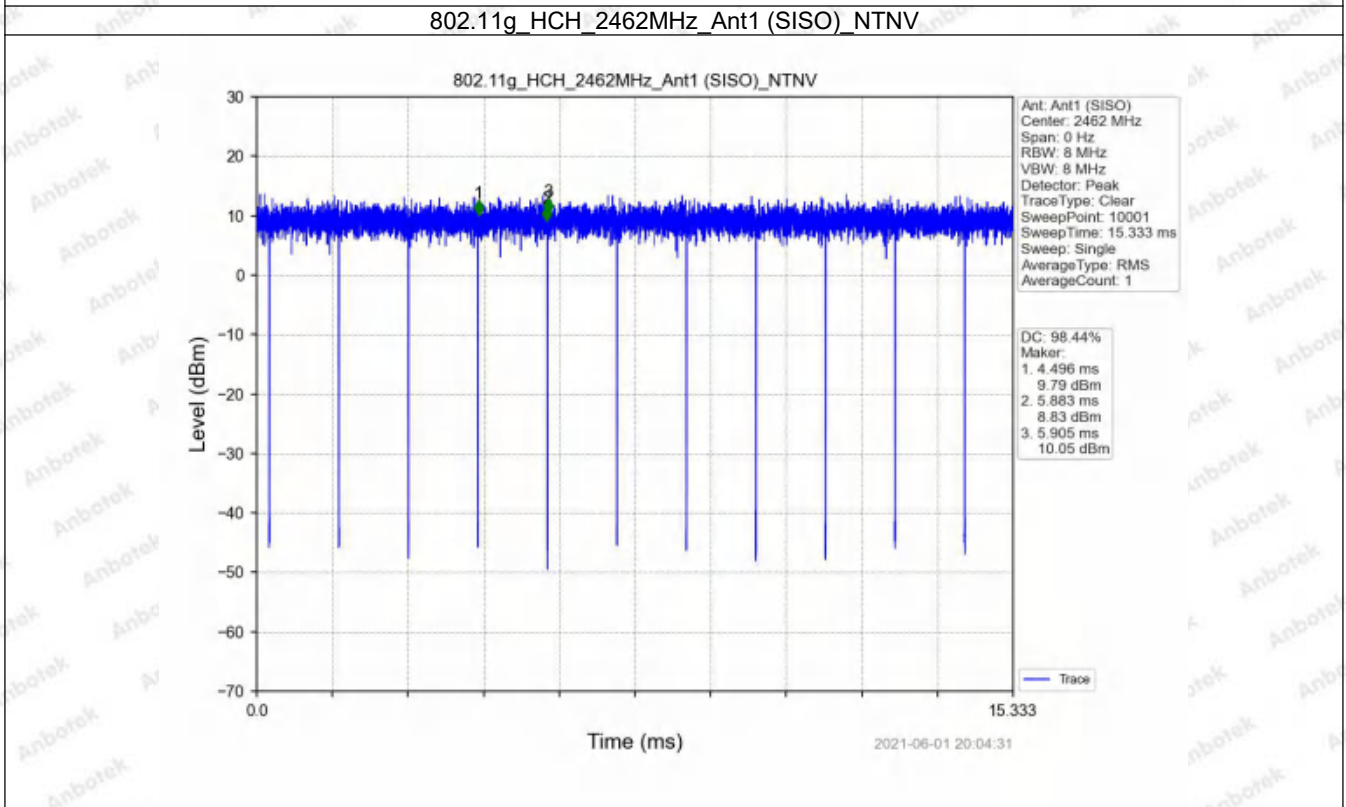
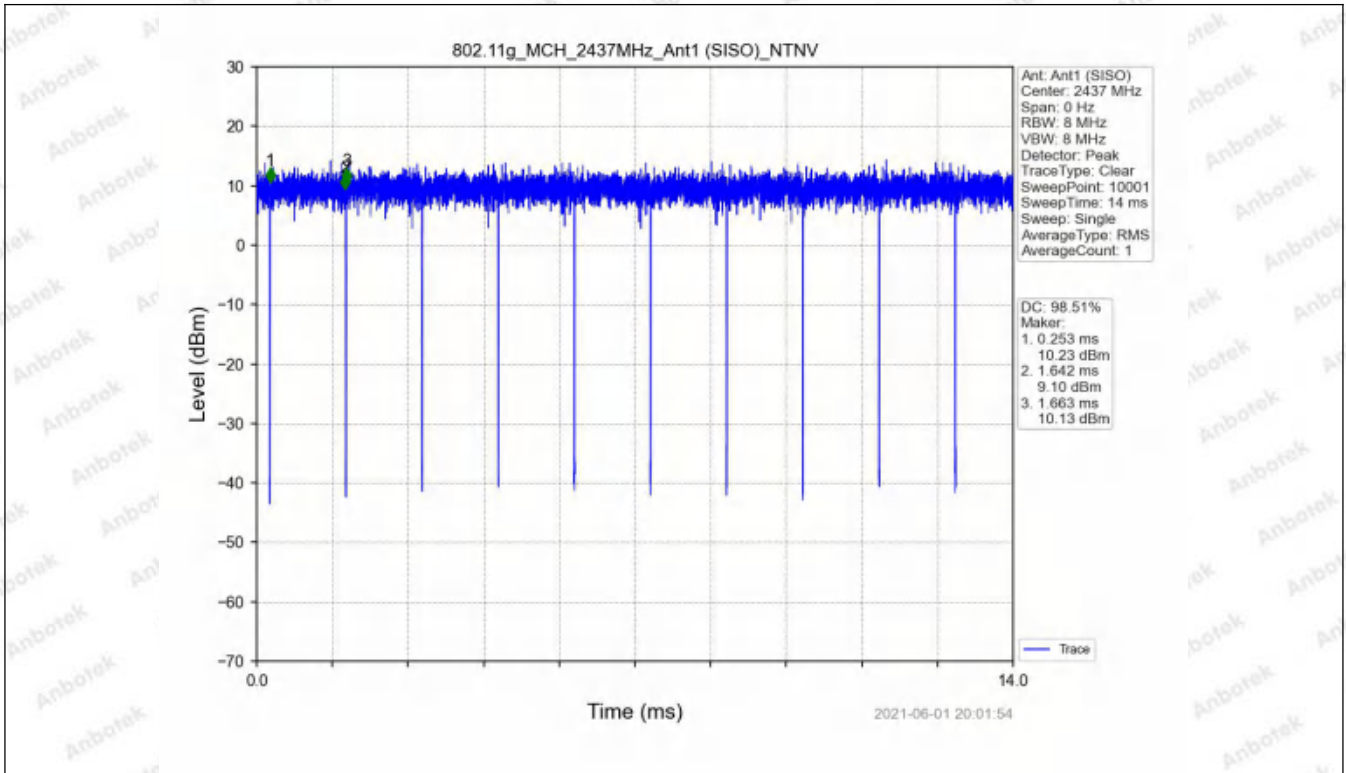
1.1.2 Test Graph



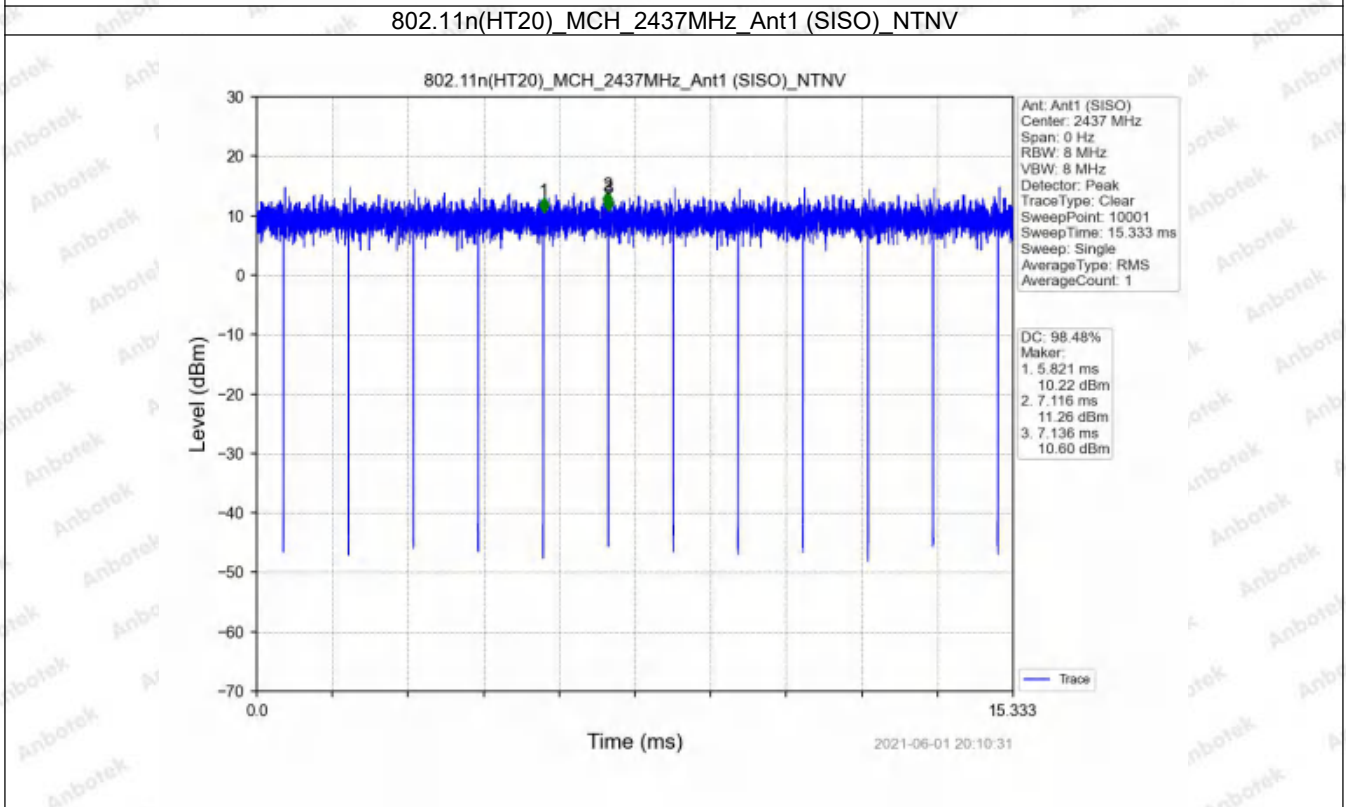
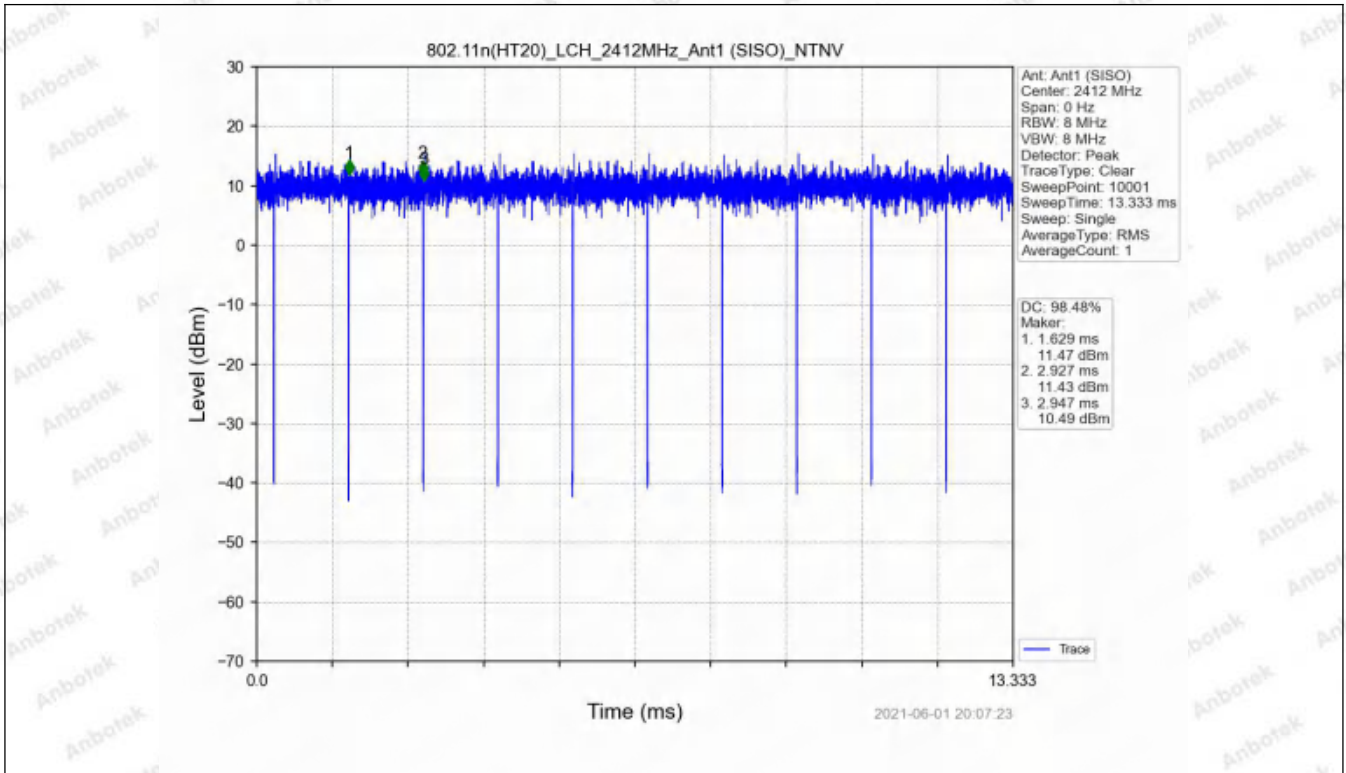
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



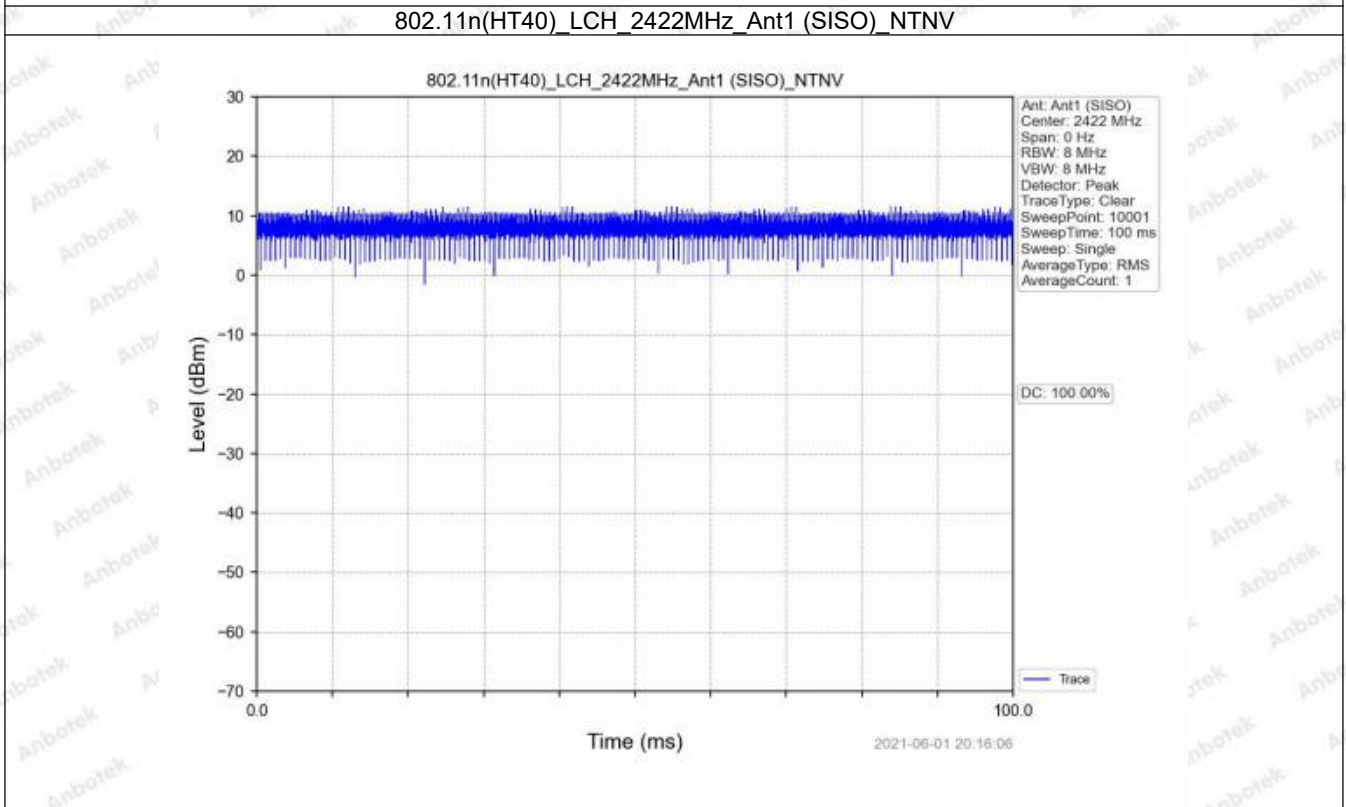
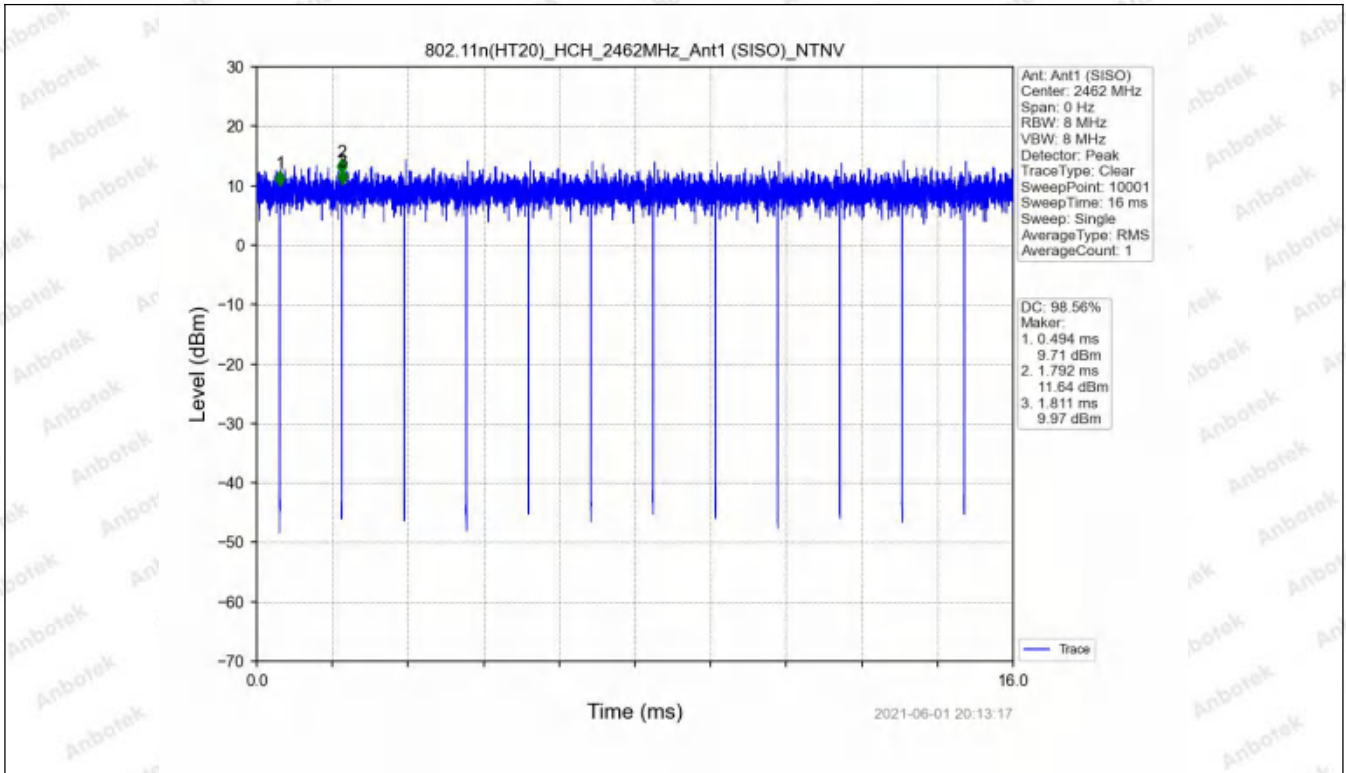
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



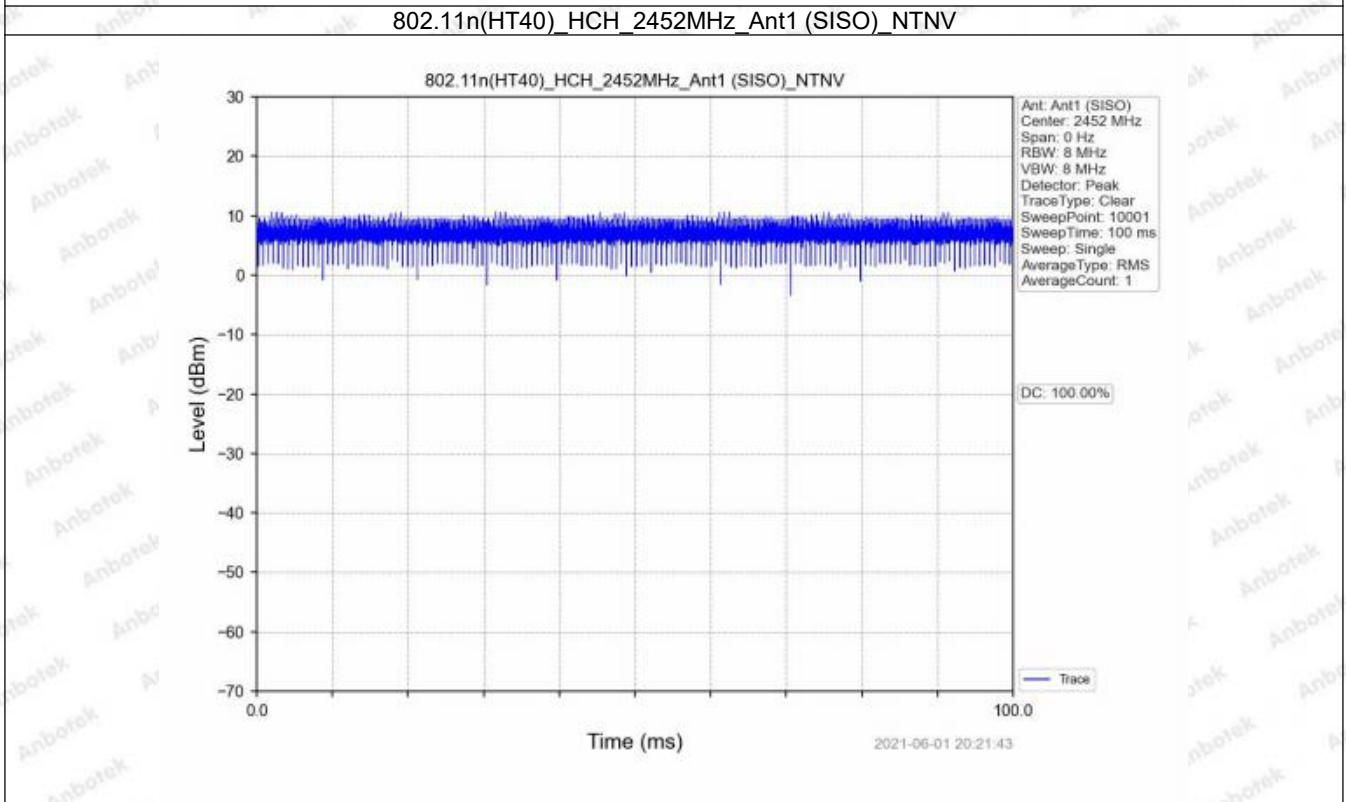
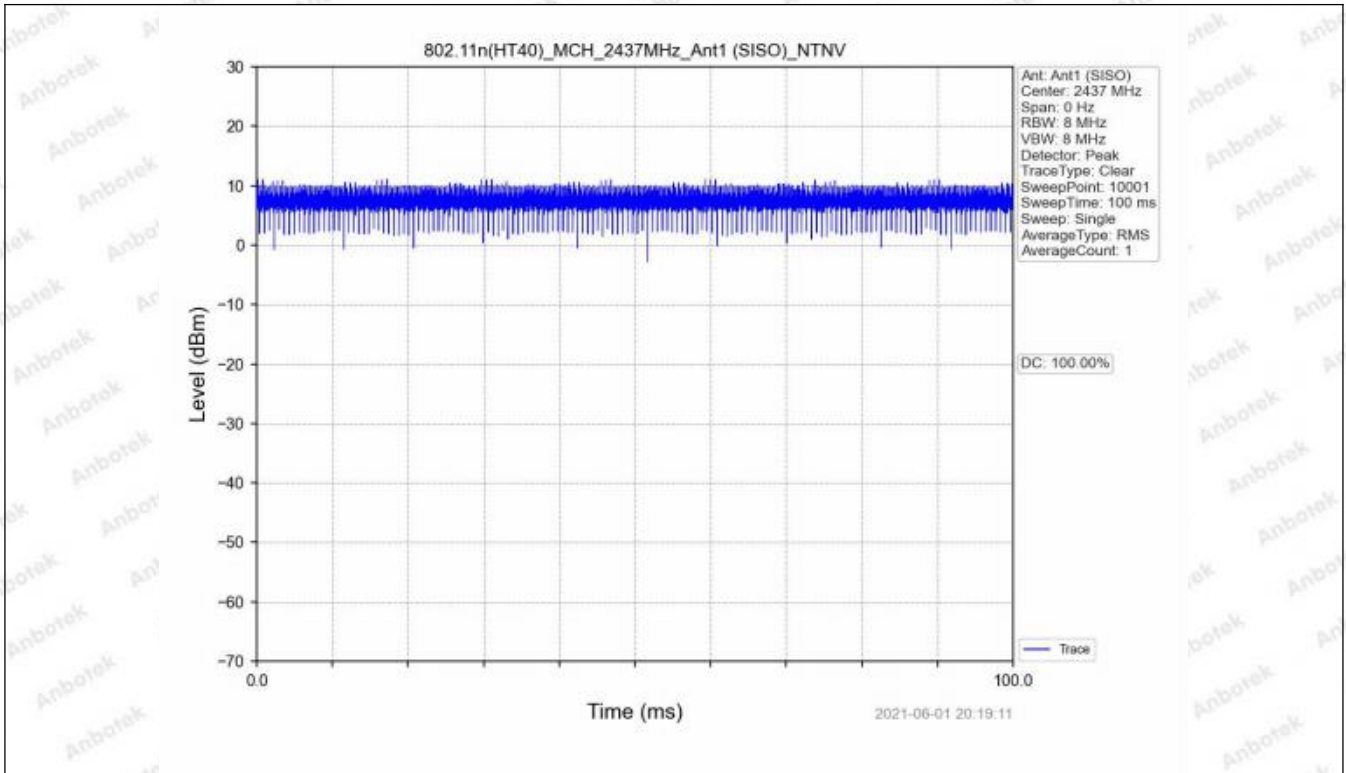
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



2. Bandwidth

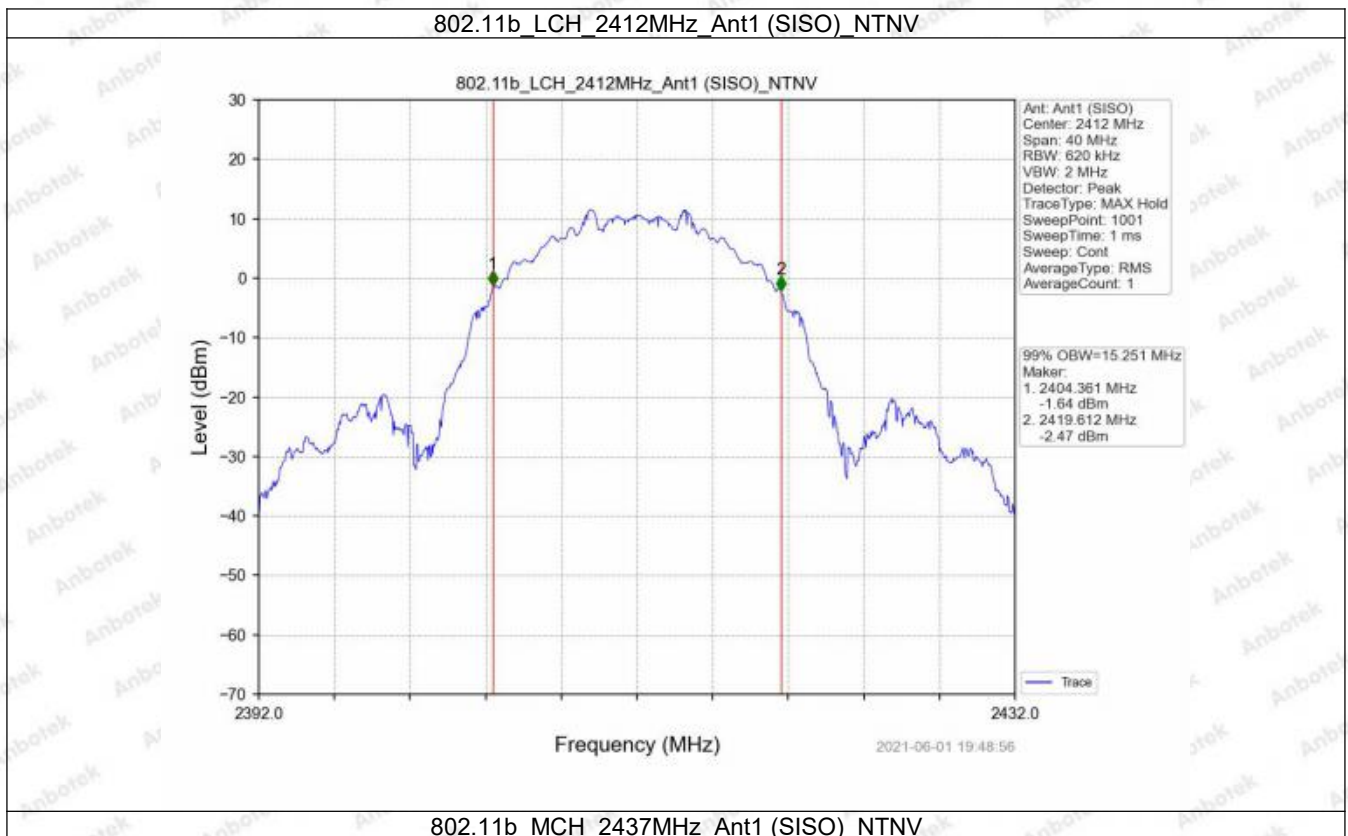
2.1 OBW

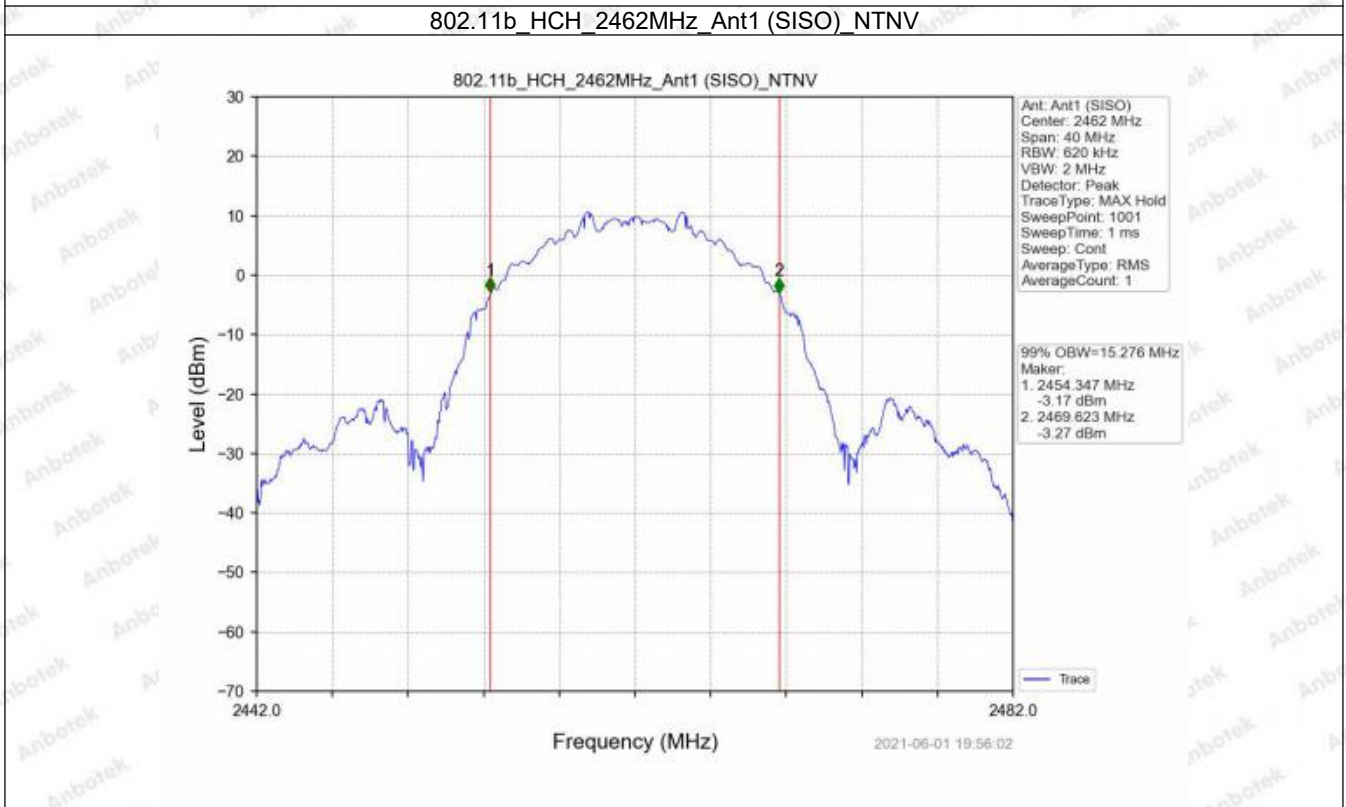
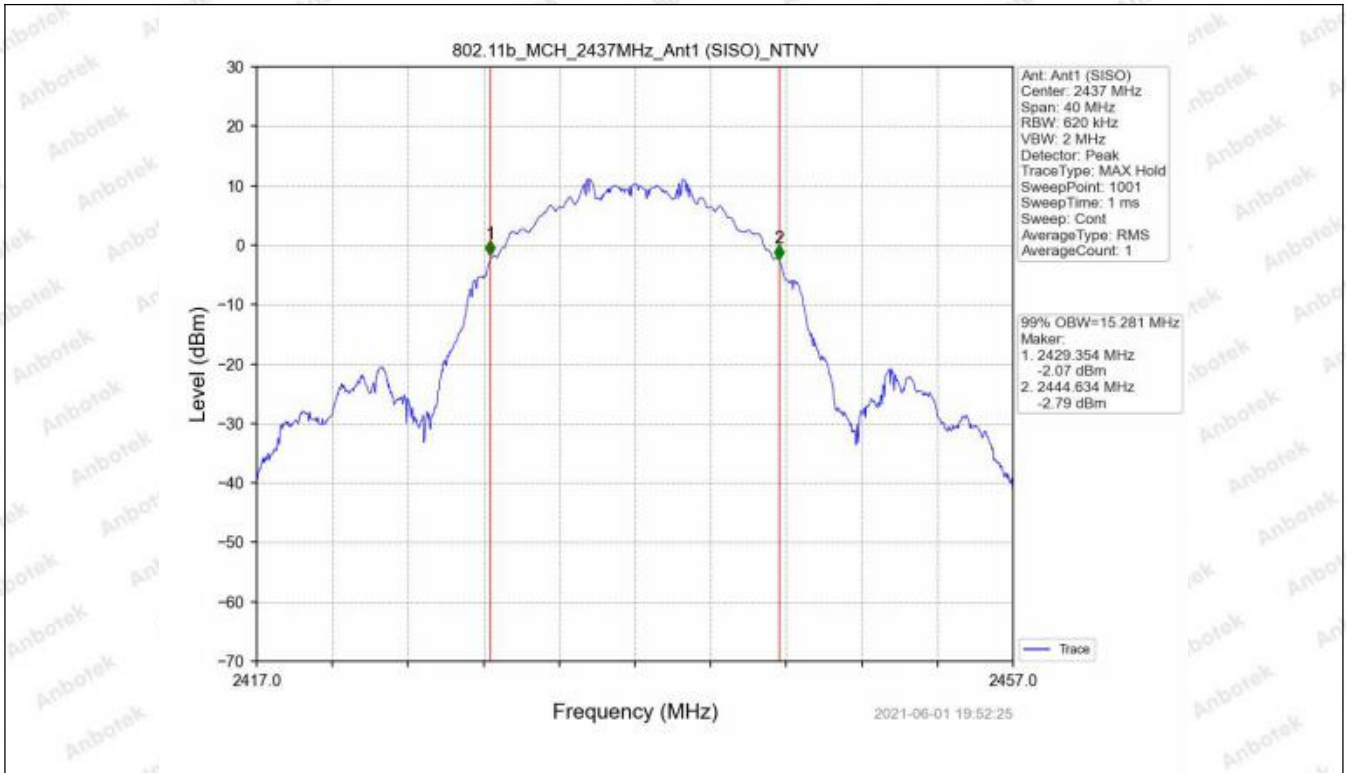
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	15.251	/	Note1
		2437	/	/	15.281	/	Note1
		2462	/	/	15.276	/	Note1
802.11g	SISO	2412	/	/	17.540	/	Note1
		2437	/	/	17.554	/	Note1
		2462	/	/	17.551	/	Note1
802.11n (HT20)	SISO	2412	/	/	18.432	/	Note1
		2437	/	/	18.431	/	Note1
		2462	/	/	18.432	/	Note1
802.11n (HT40)	SISO	2422	/	/	35.773	/	Note1
		2437	/	/	35.772	/	Note1
		2452	/	/	35.761	/	Note1

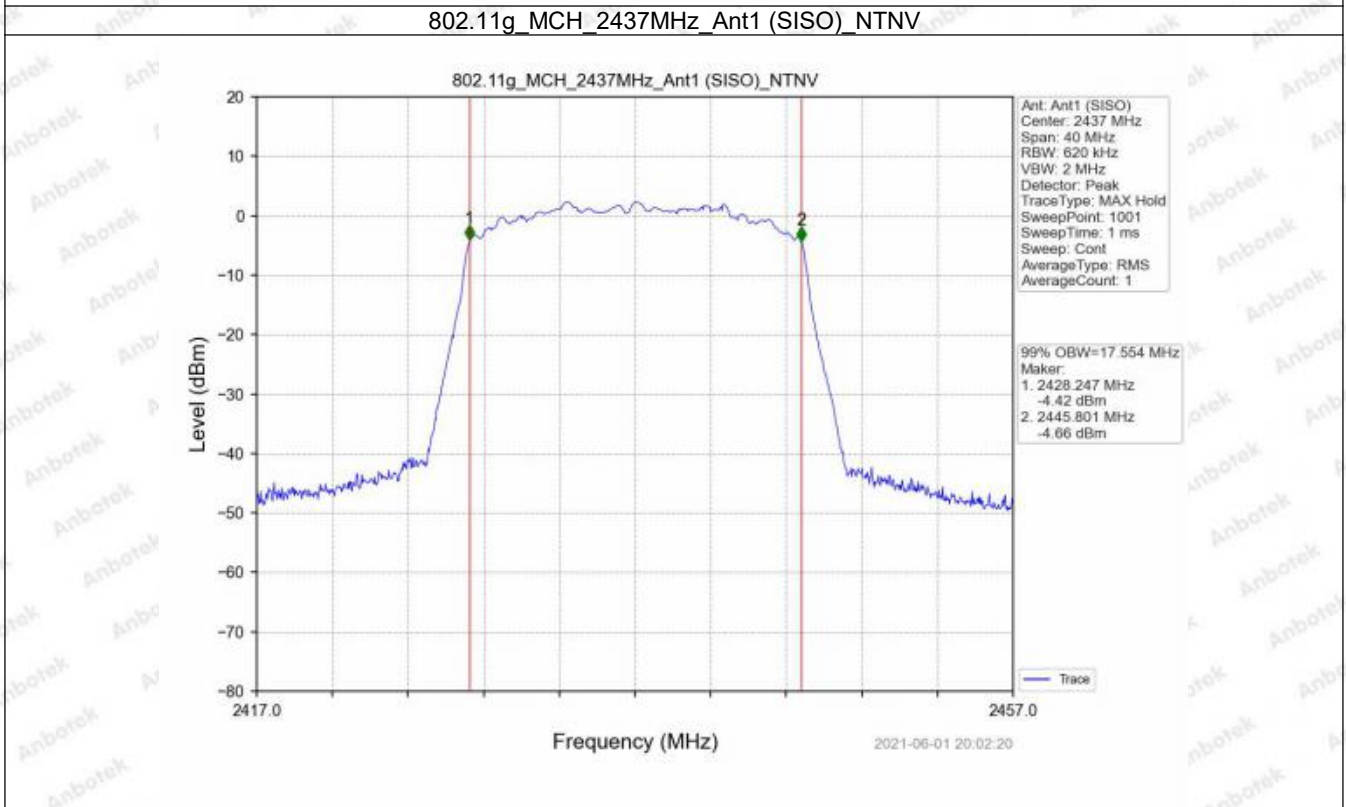
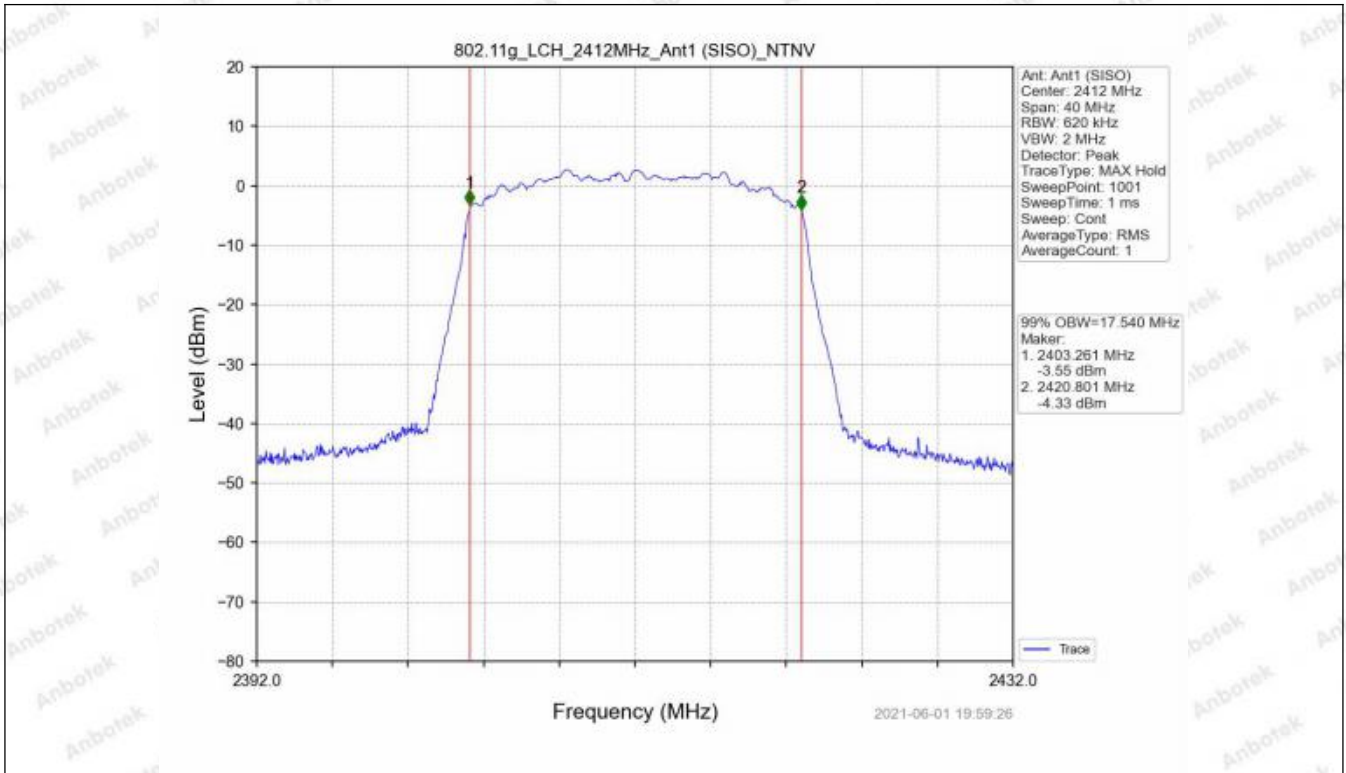
Note1: Only for Report Use

2.1.2 Test Graph

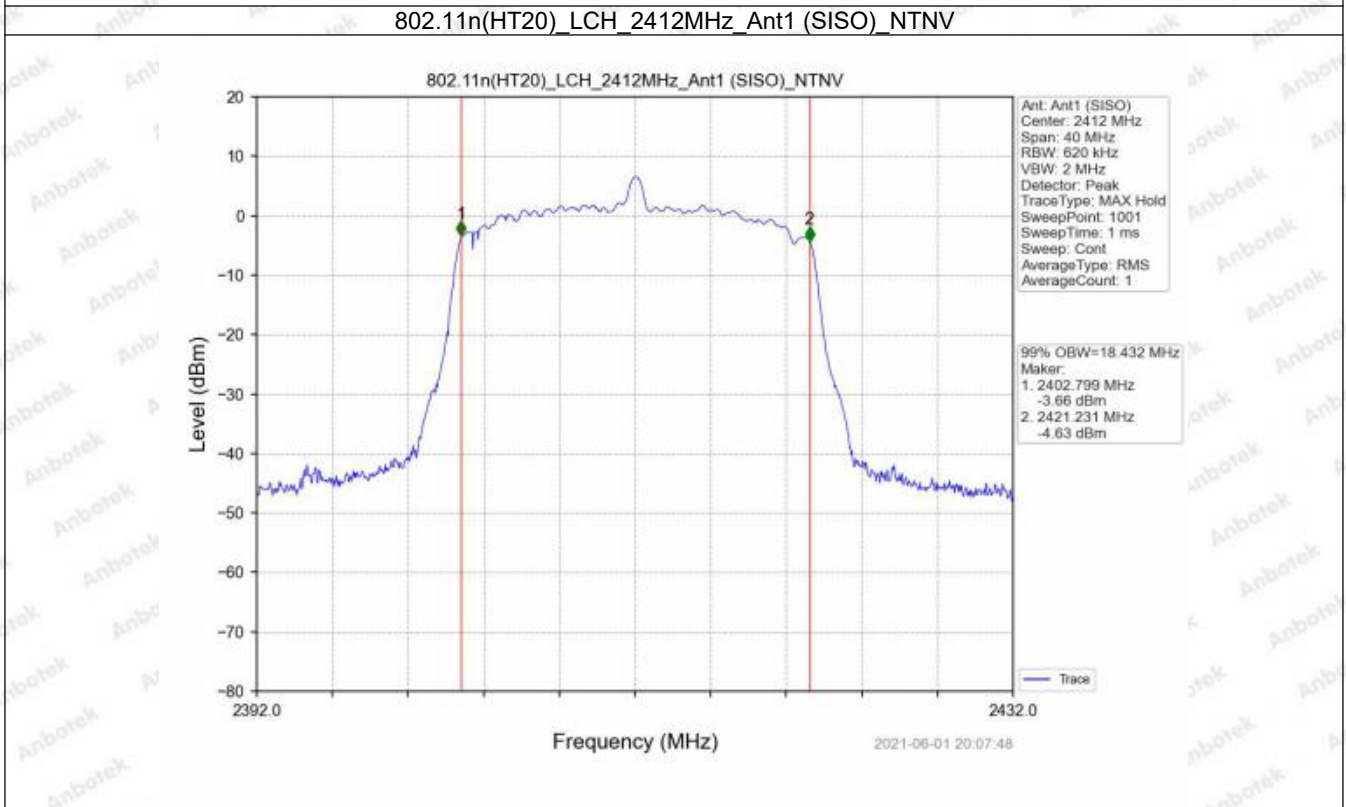
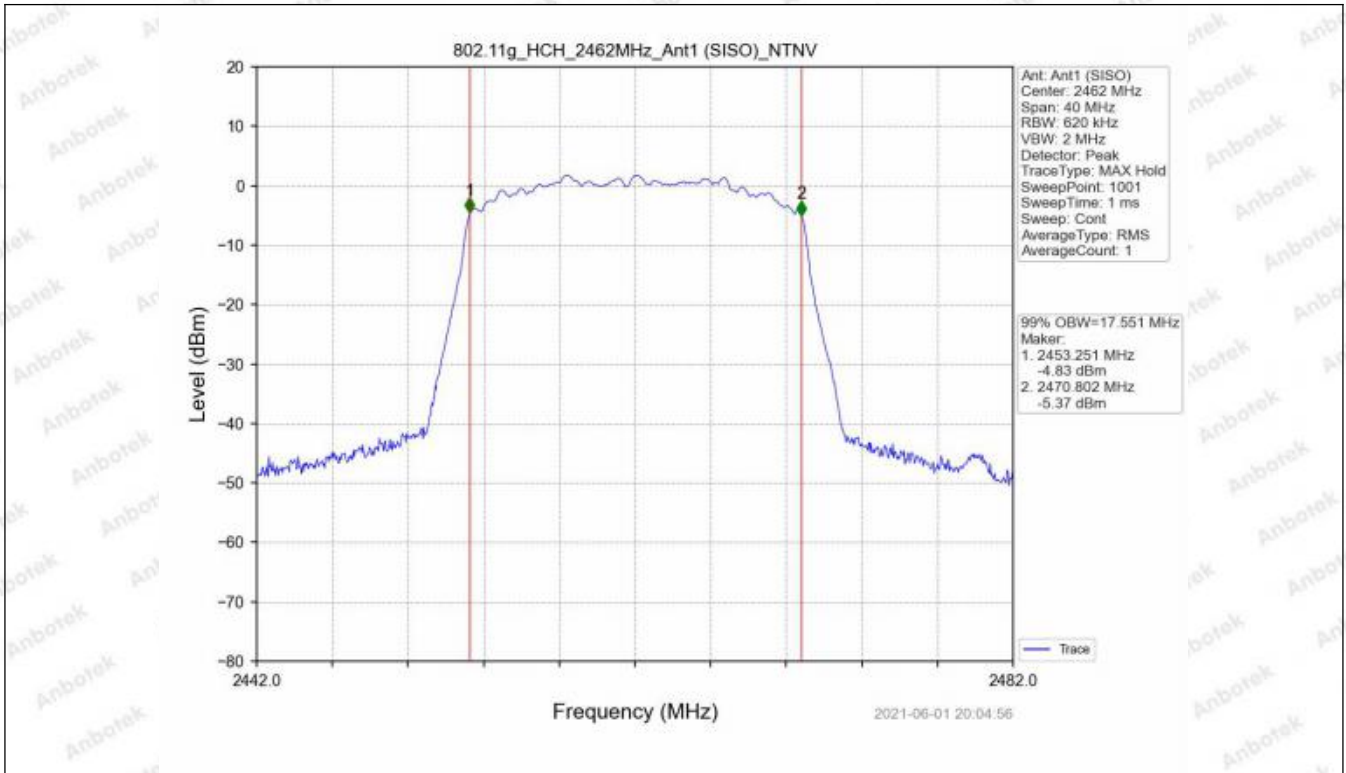




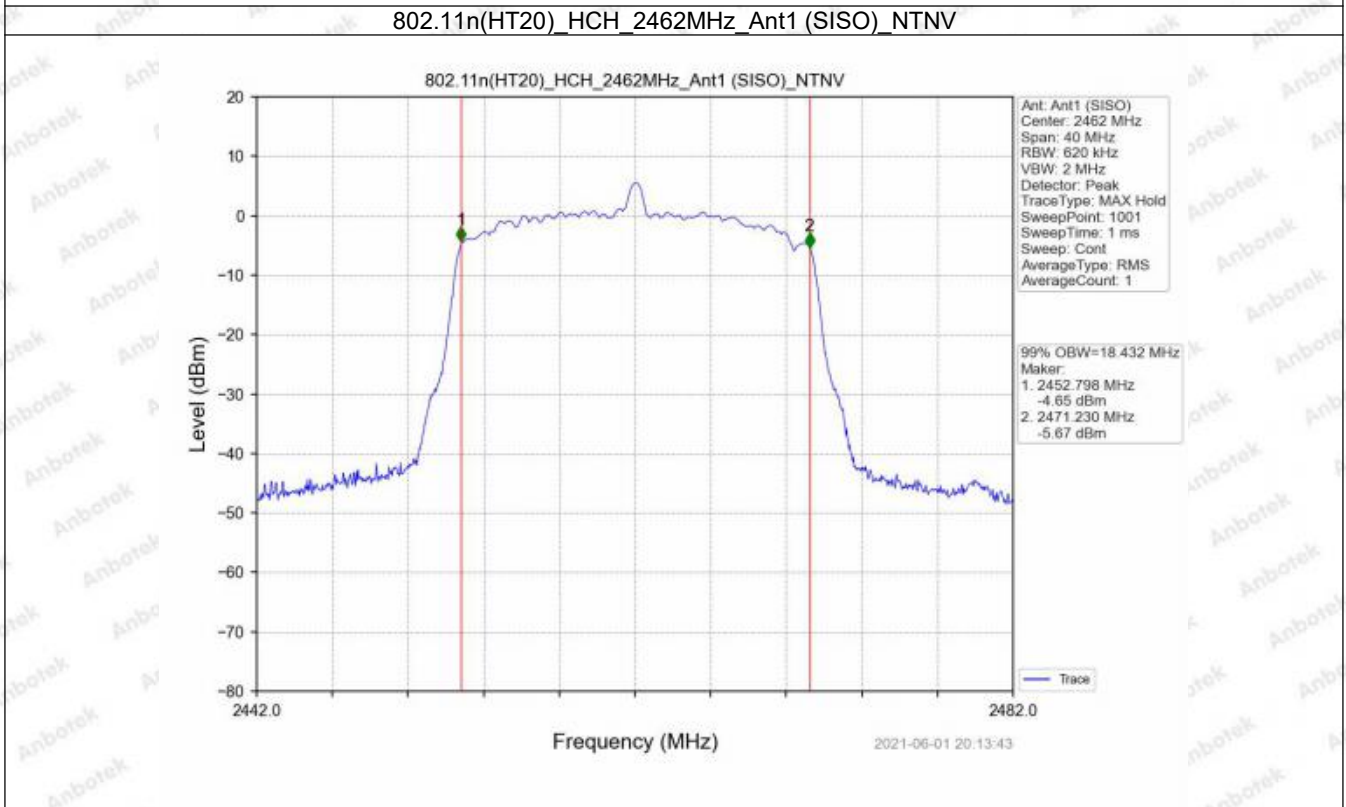
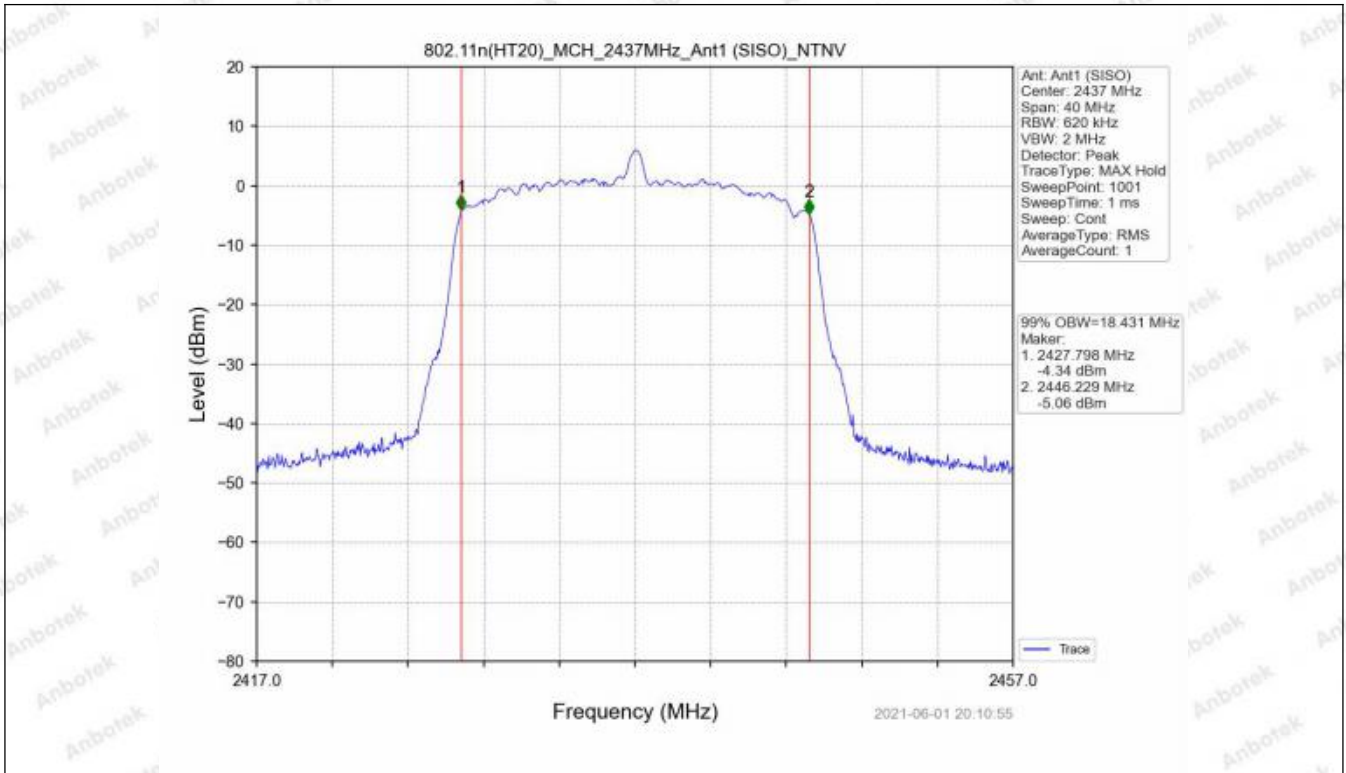
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



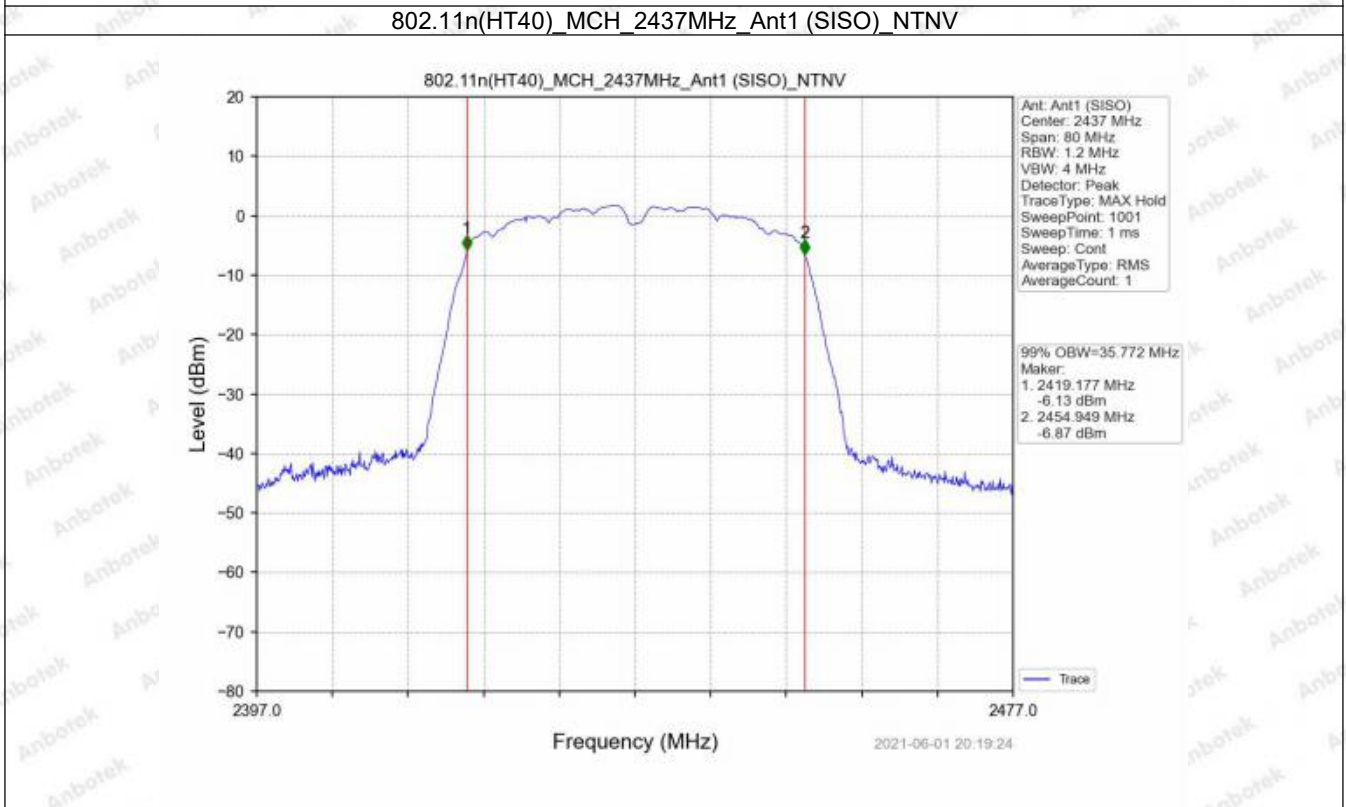
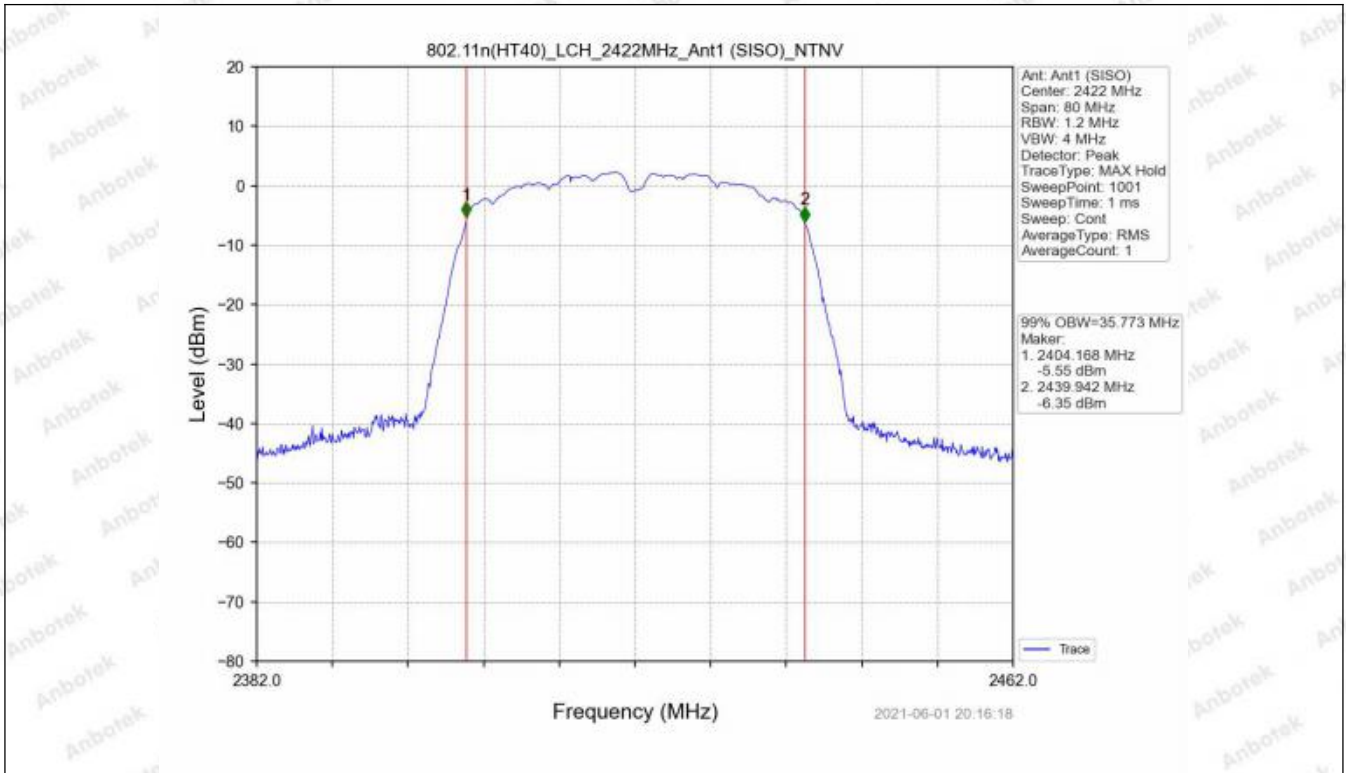
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



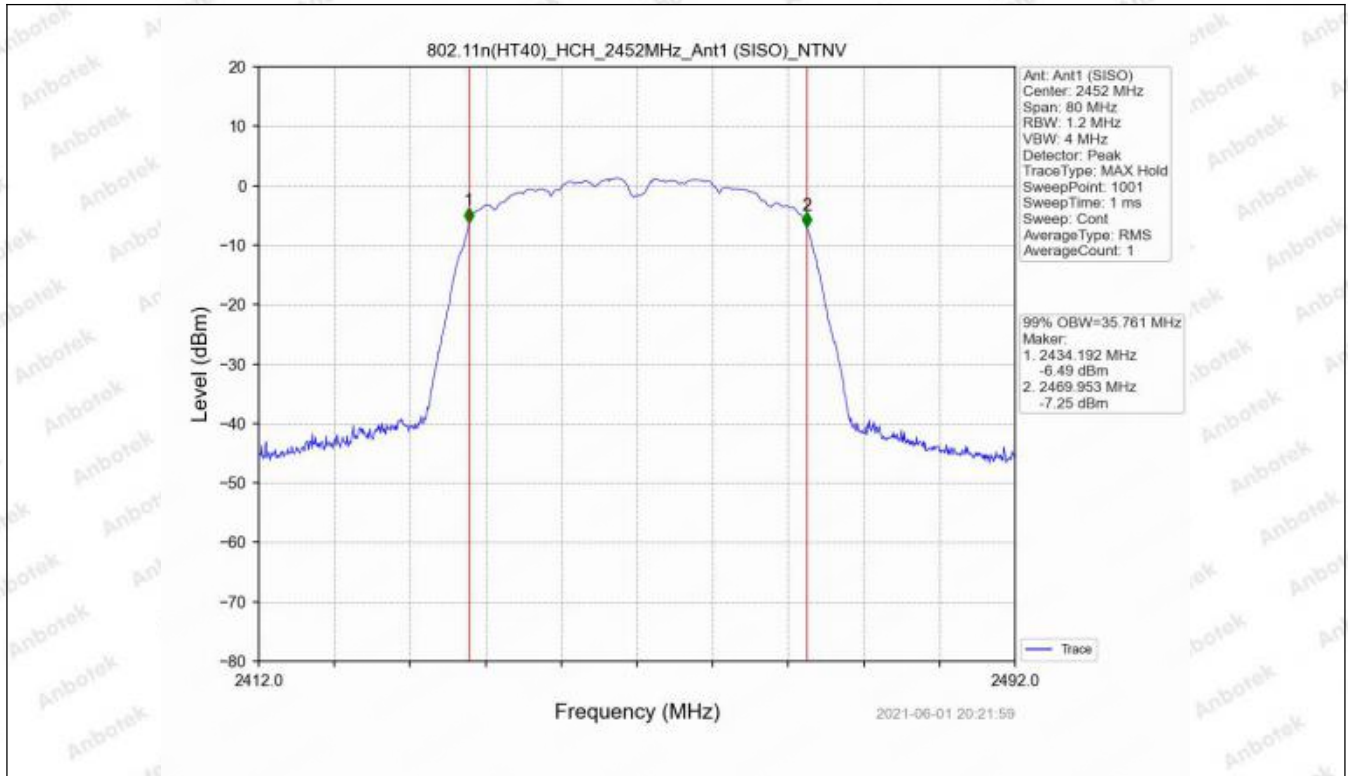
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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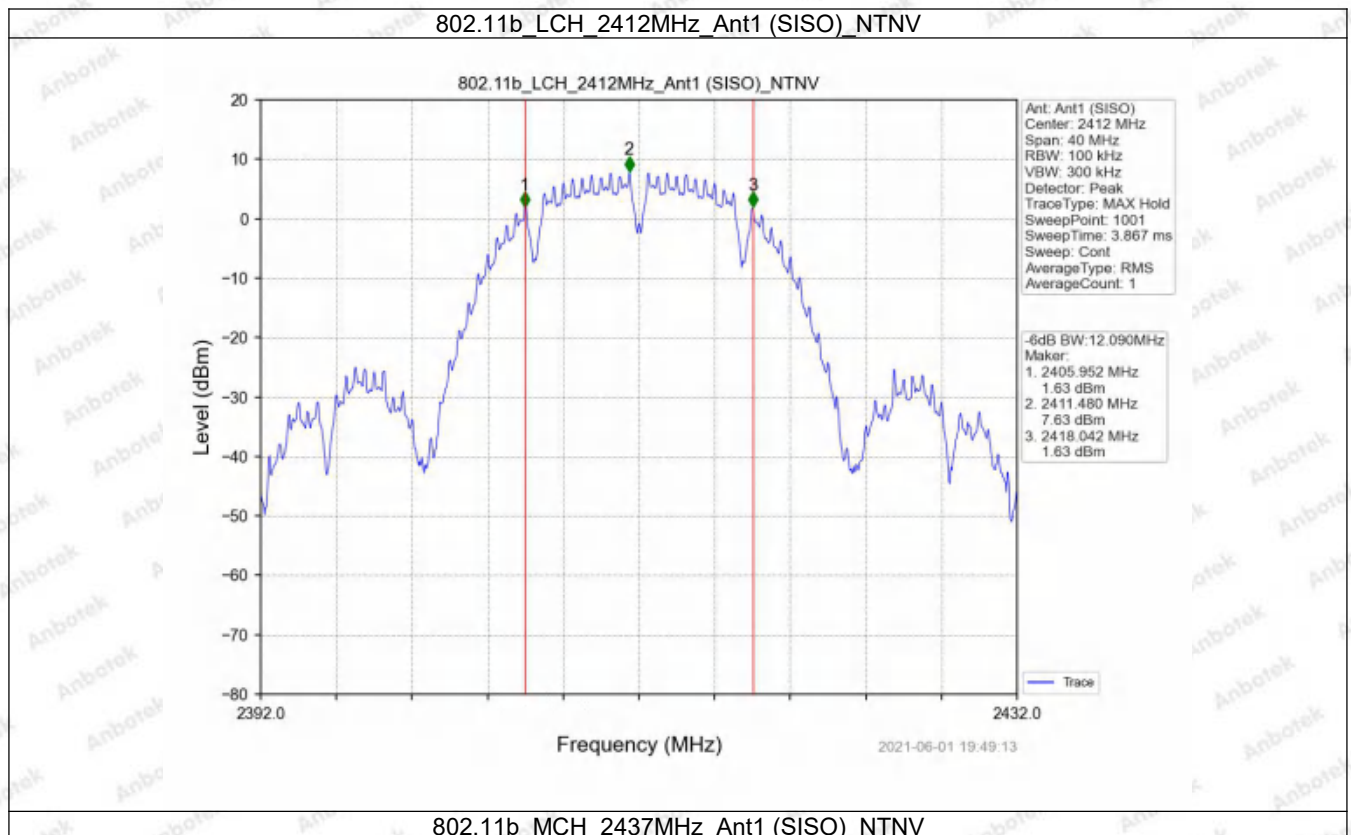
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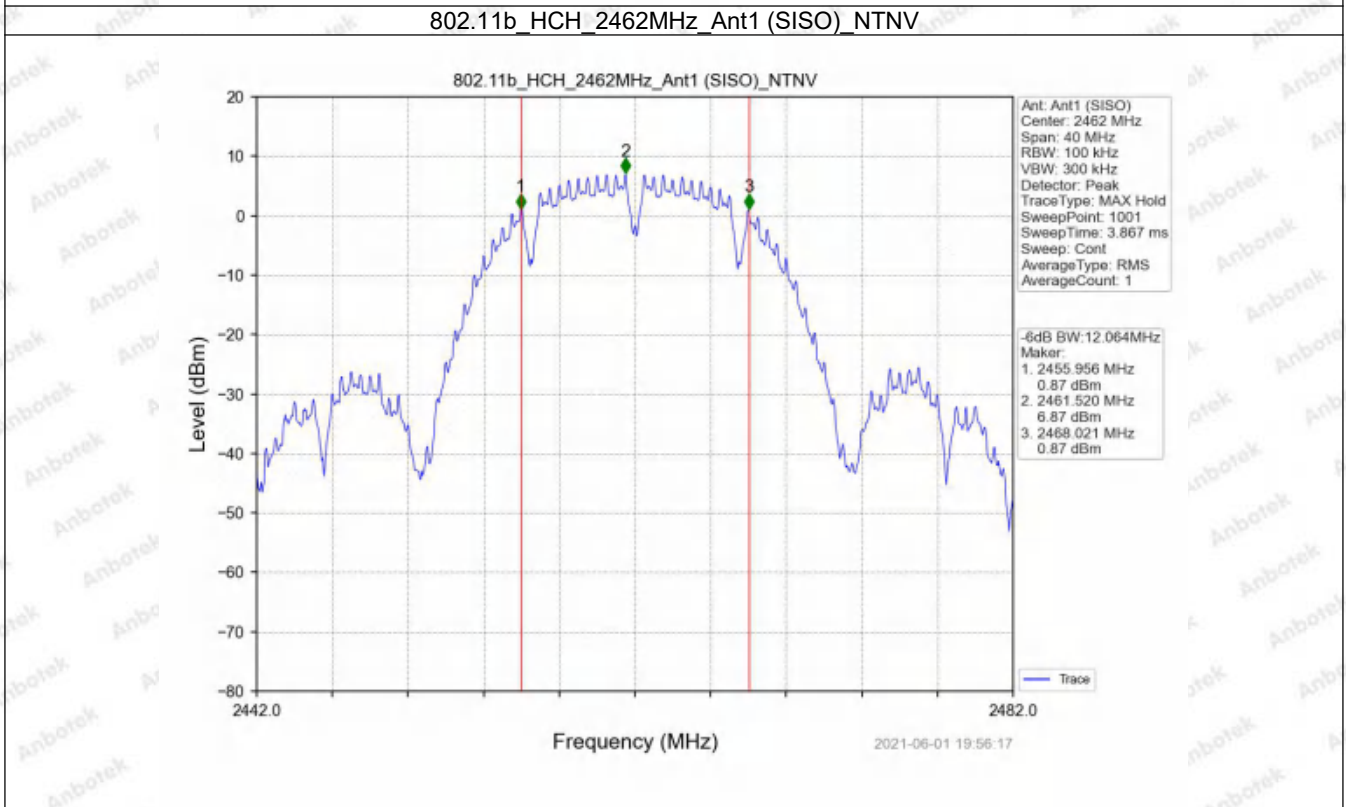
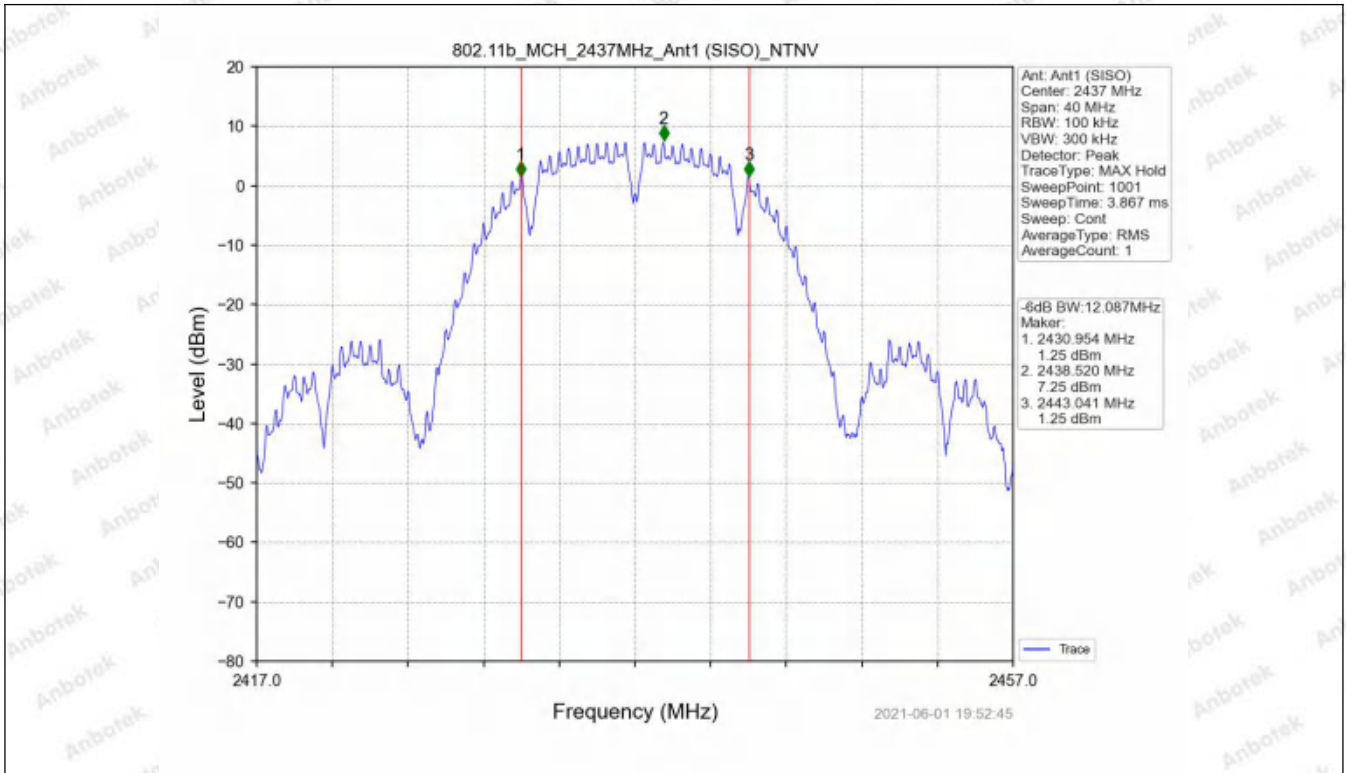
2.2 XDB

2.2.1 Test Result

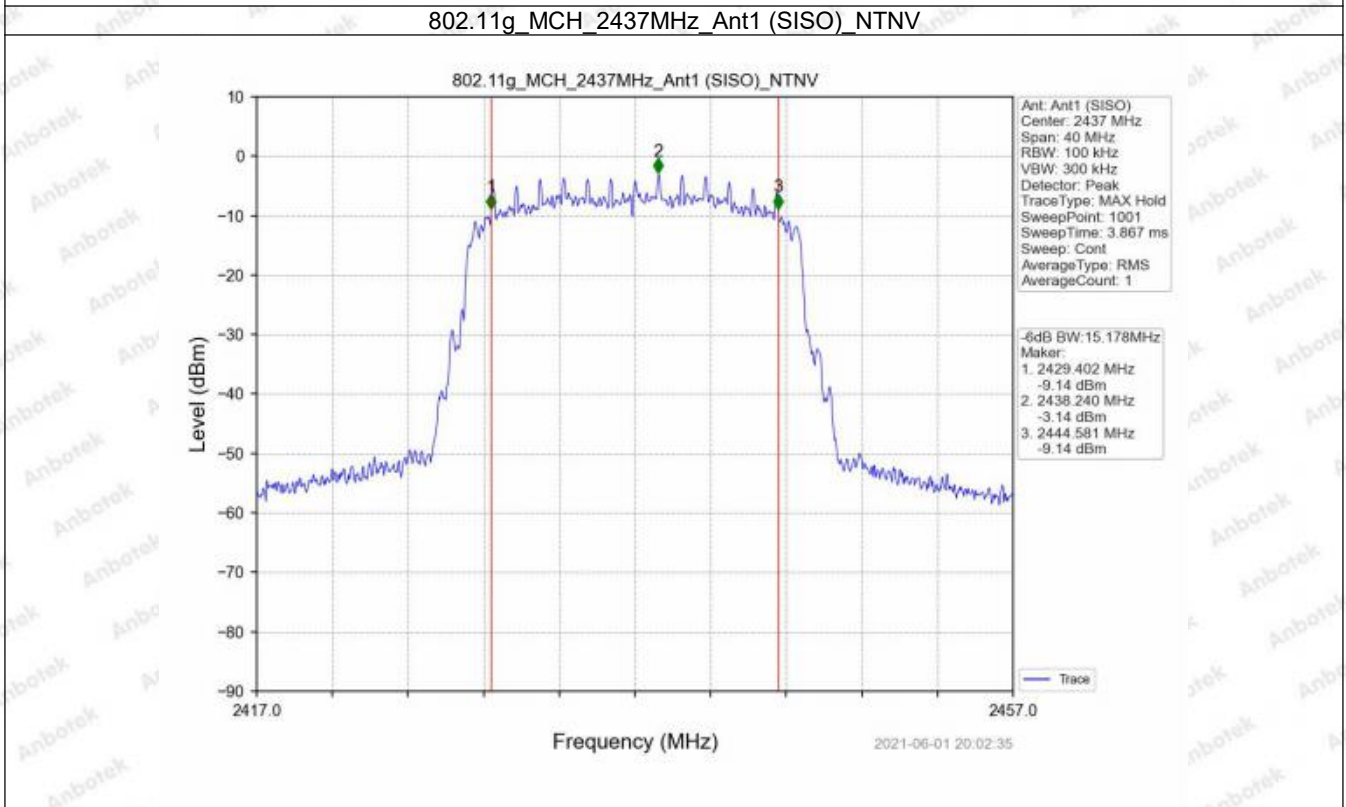
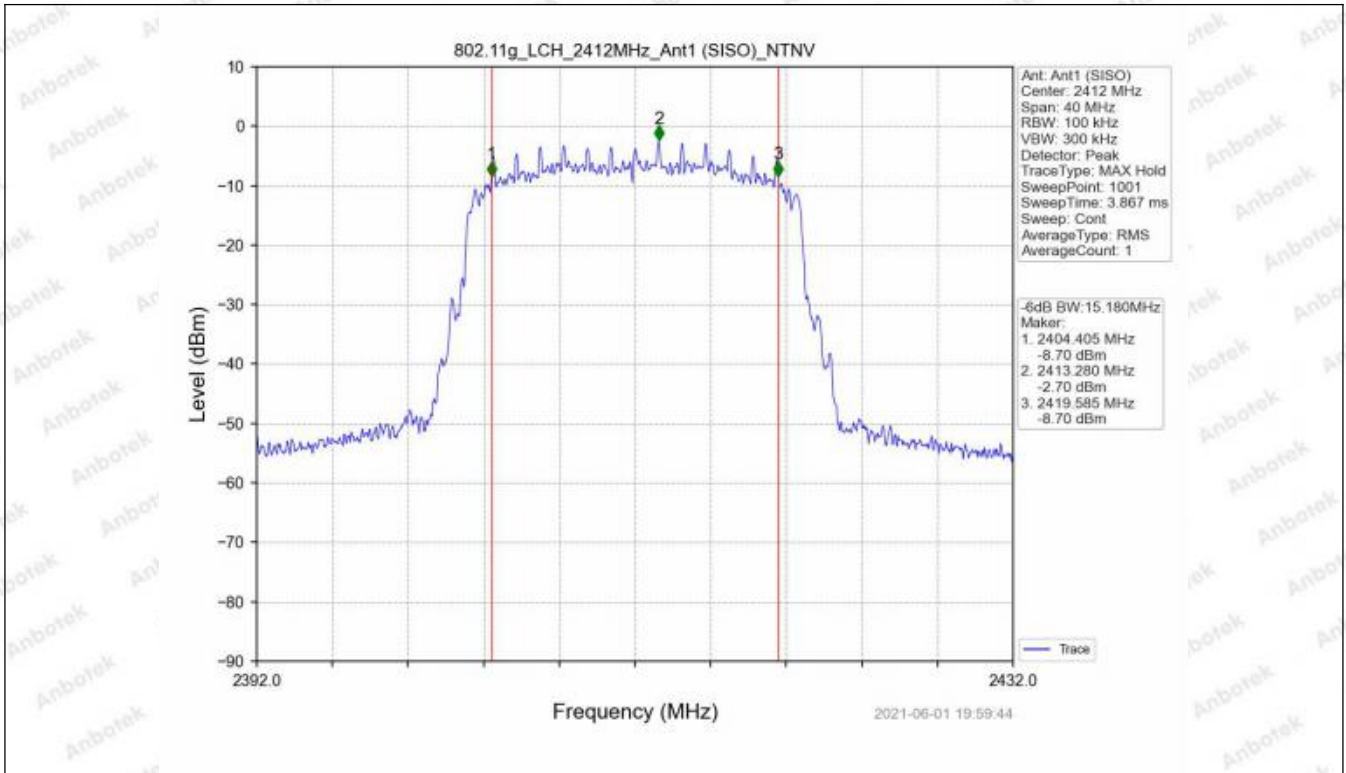
Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	12.090	>=0.5	Pass
		2437	/	/	12.087	>=0.5	Pass
		2462	/	/	12.064	>=0.5	Pass
802.11g	SISO	2412	/	/	15.180	>=0.5	Pass
		2437	/	/	15.178	>=0.5	Pass
		2462	/	/	15.176	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	15.062	>=0.5	Pass
		2437	/	/	13.854	>=0.5	Pass
		2462	/	/	15.061	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	35.114	>=0.5	Pass
		2437	/	/	35.101	>=0.5	Pass
		2452	/	/	35.109	>=0.5	Pass

2.2.2 Test Graph

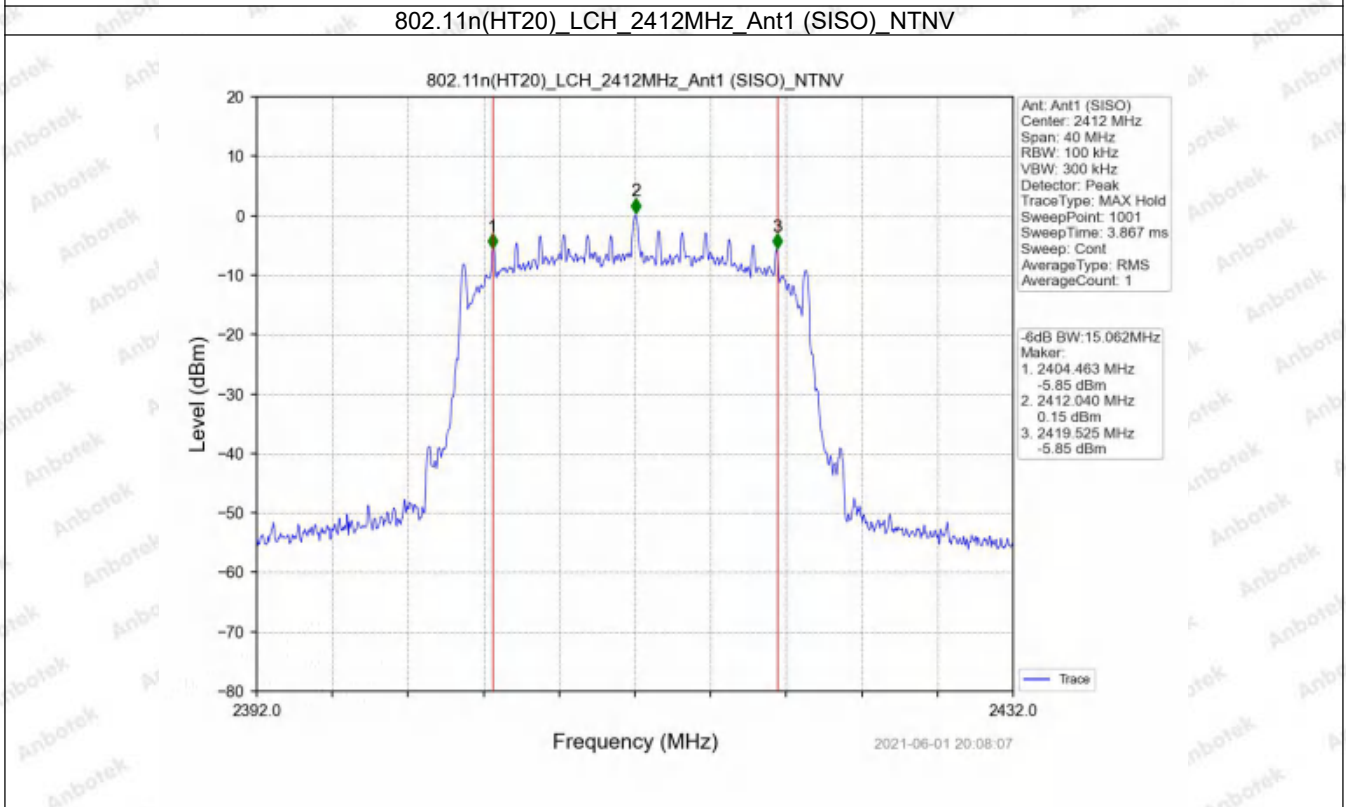
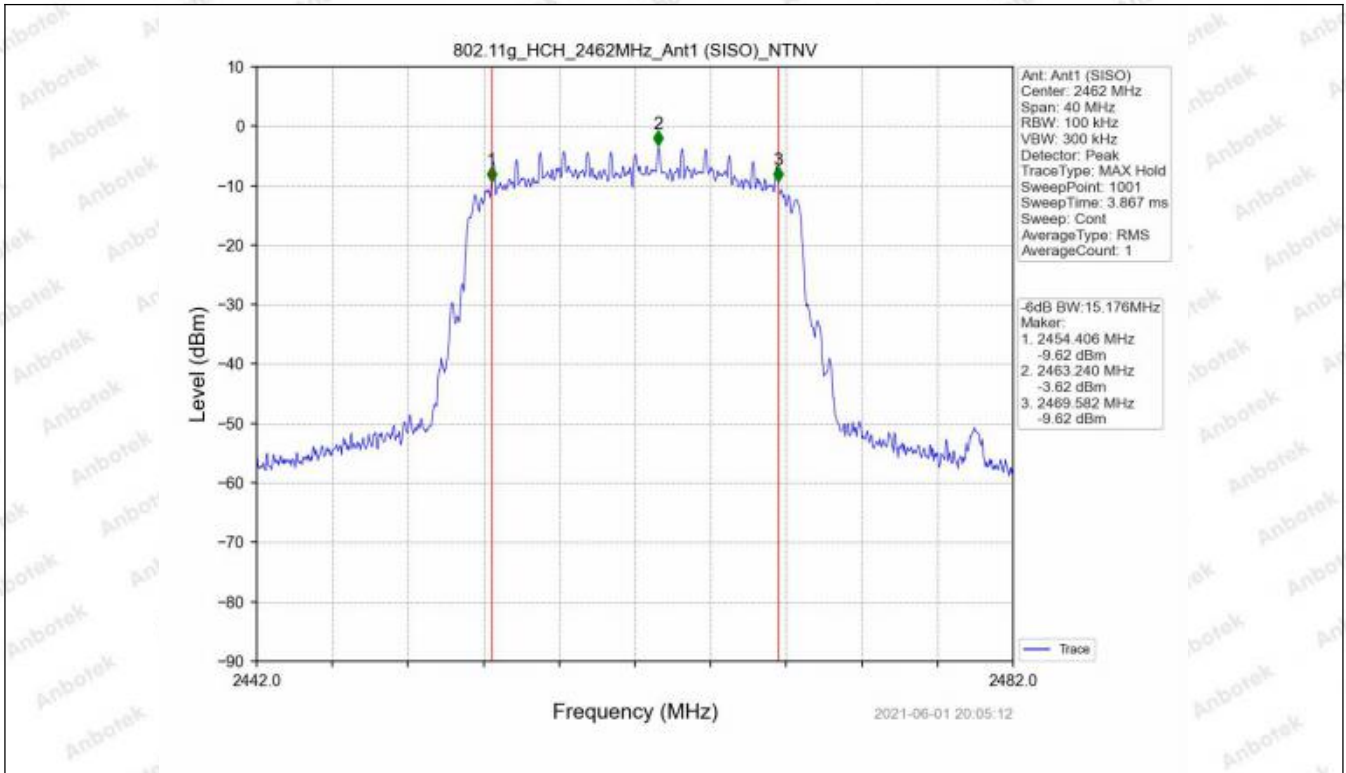




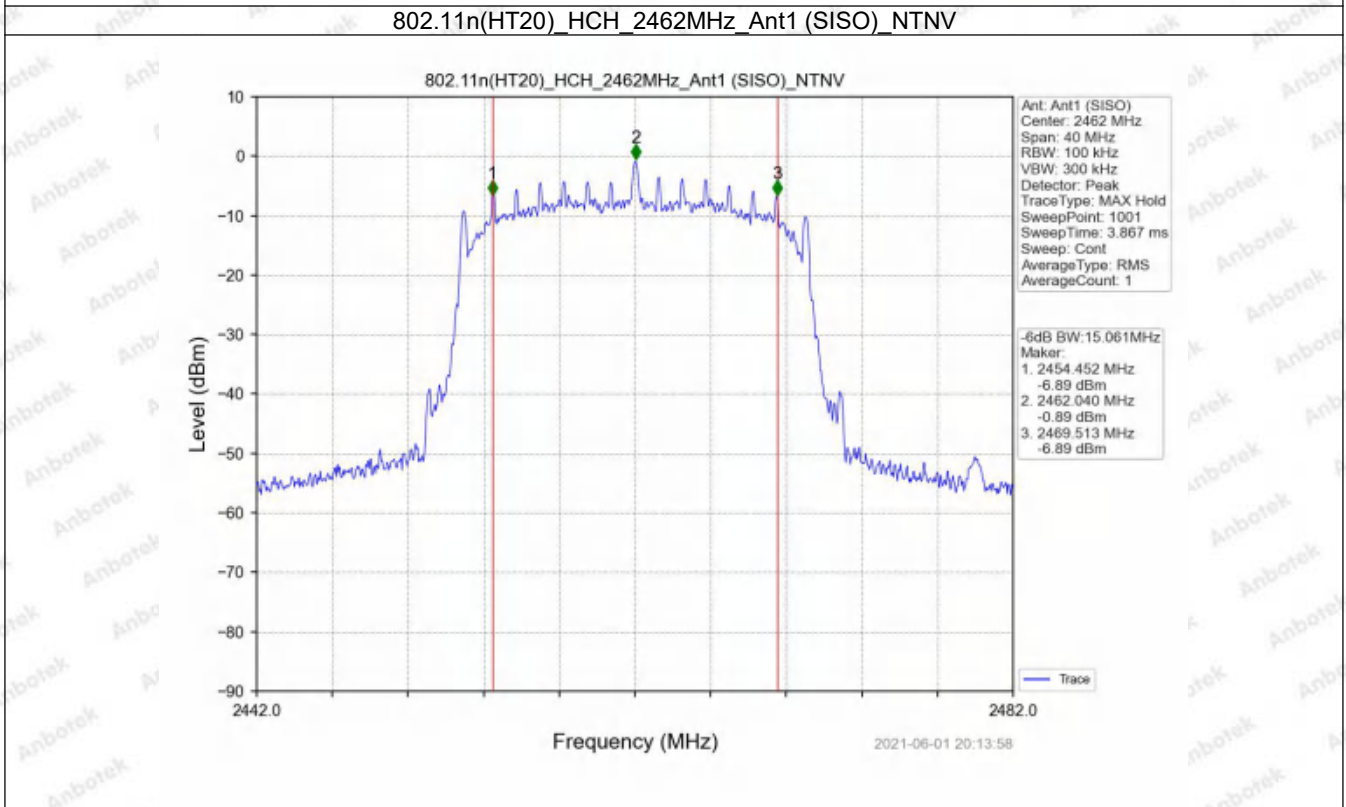
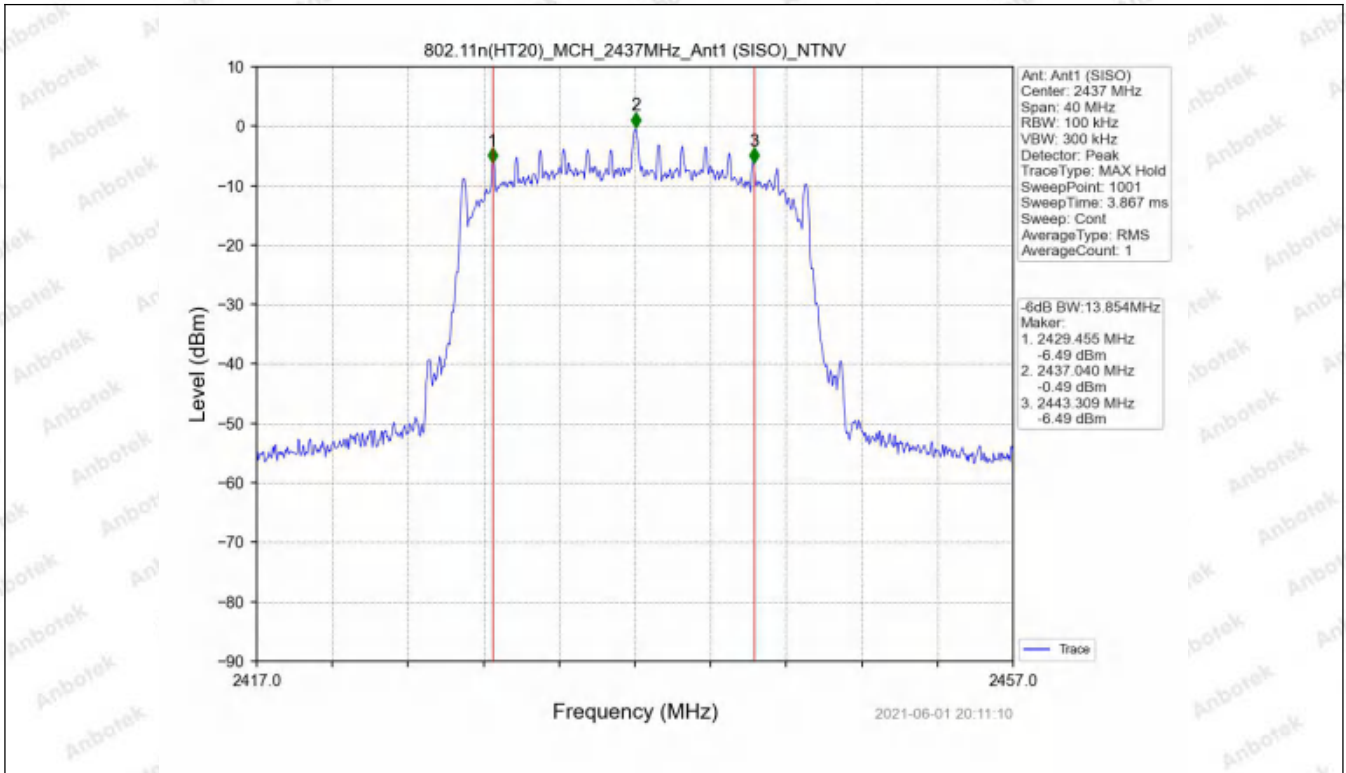
802.11g_LCH_2412MHz_Ant1 (SISO) NTV



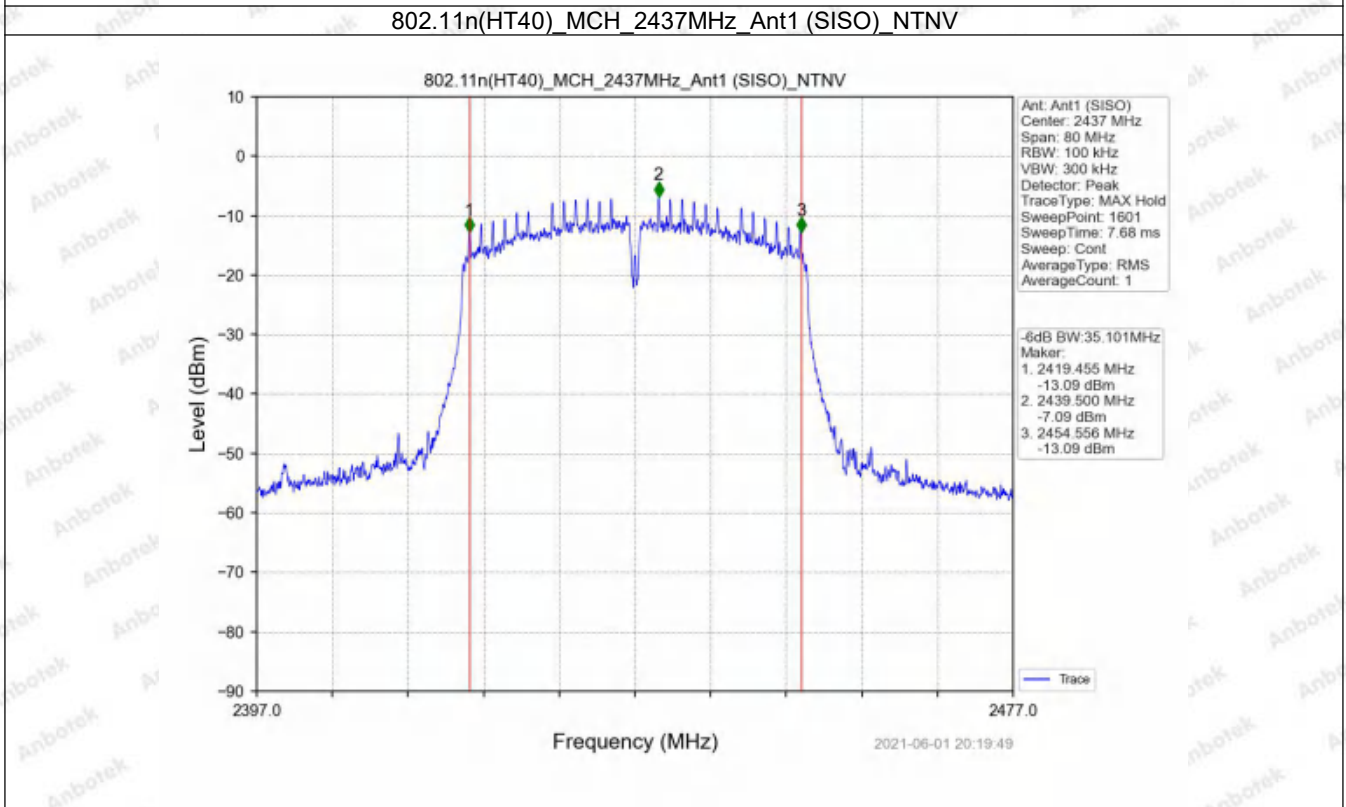
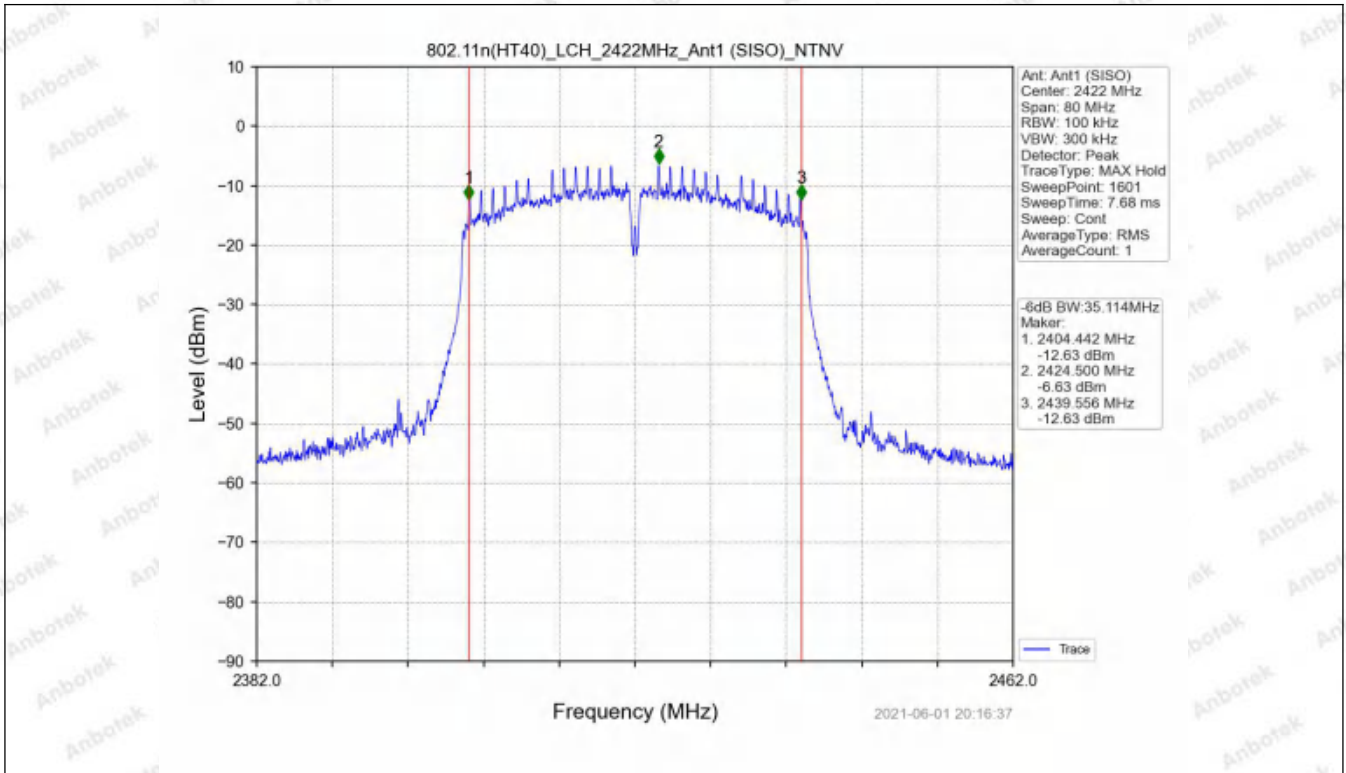
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



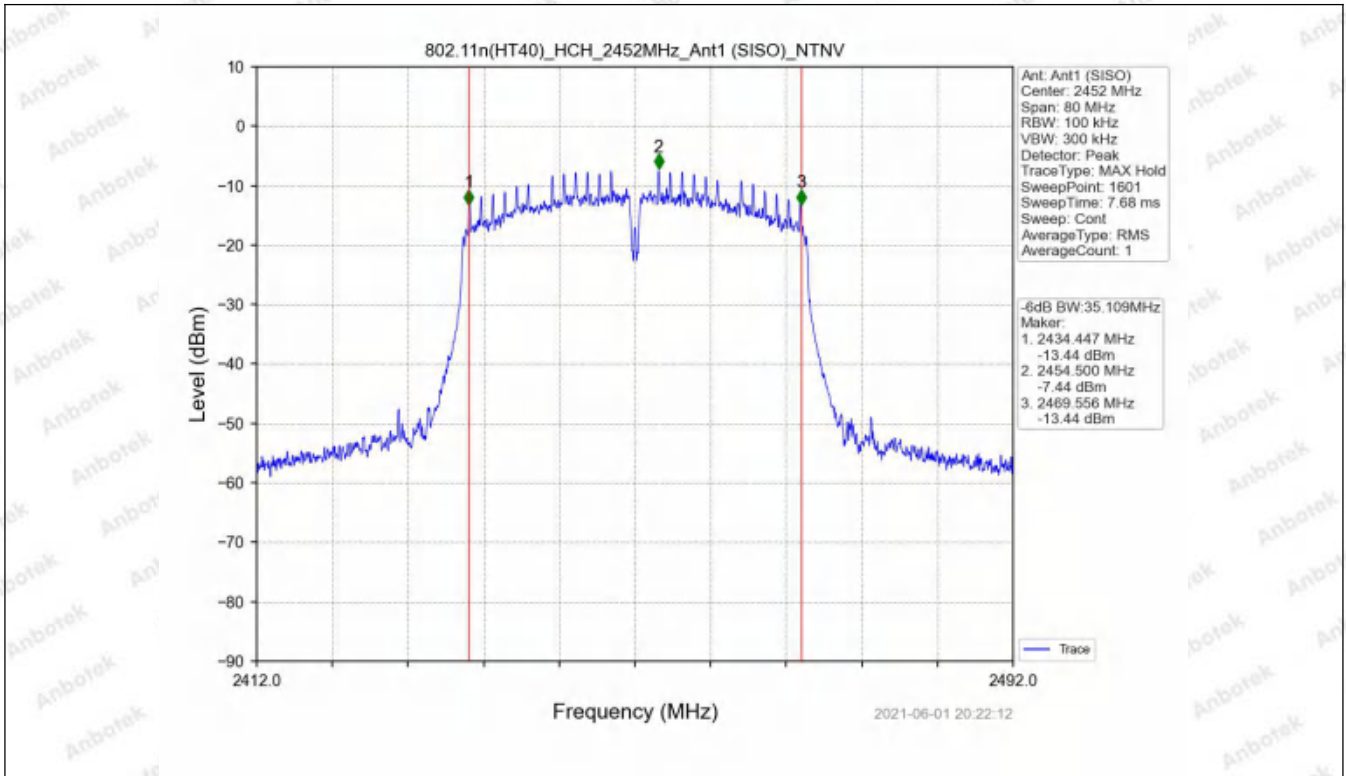
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	/	/	20.88	<=30	Pass
		2437	/	/	20.57	<=30	Pass
		2462	/	/	19.93	<=30	Pass
802.11g	SISO	2412	/	/	15.30	<=30	Pass
		2437	/	/	14.89	<=30	Pass
		2462	/	/	14.36	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	15.42	<=30	Pass
		2437	/	/	14.83	<=30	Pass
		2462	/	/	14.39	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	13.98	<=30	Pass
		2437	/	/	13.50	<=30	Pass
		2452	/	/	13.10	<=30	Pass

Note1: Antenna Gain: 0dBi;

4. Maximum Power Spectral Density

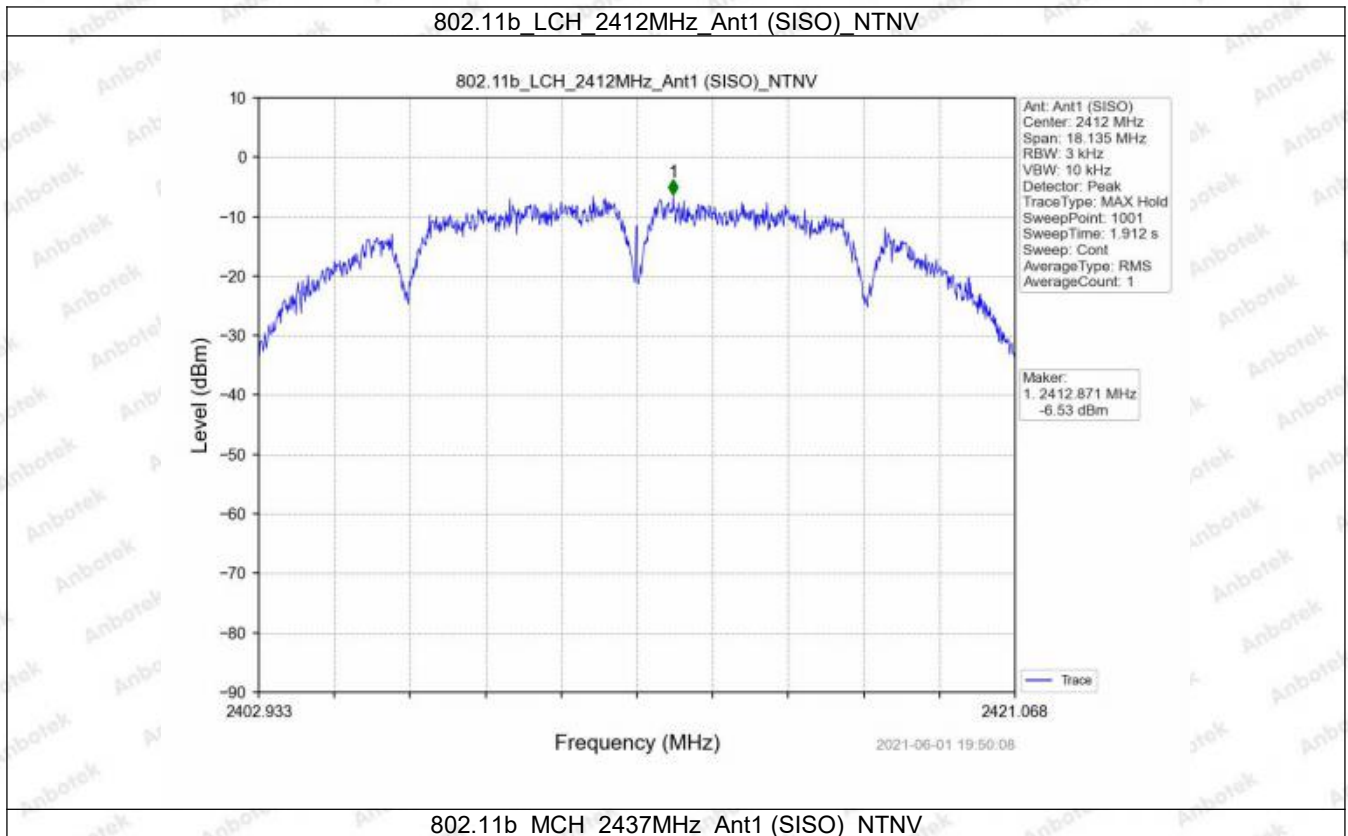
4.1 PSD

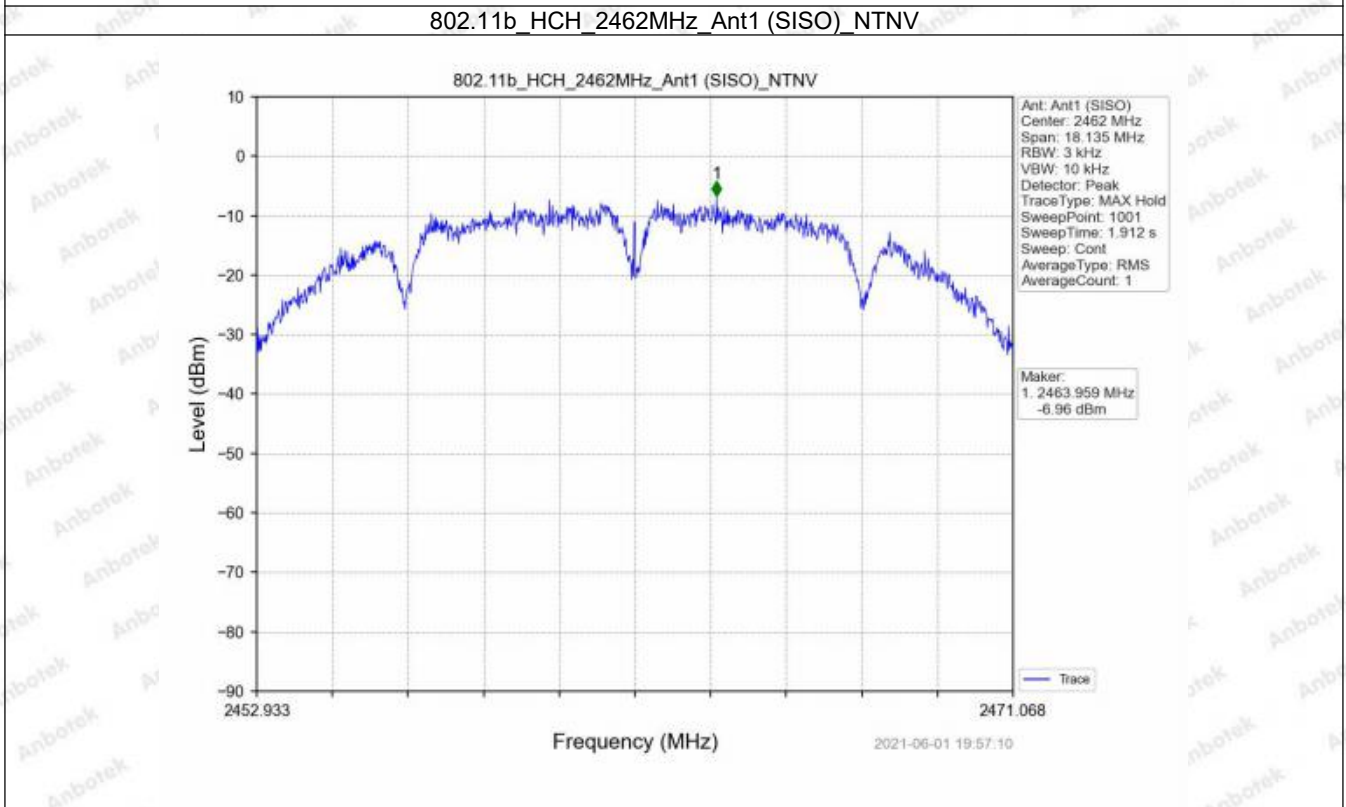
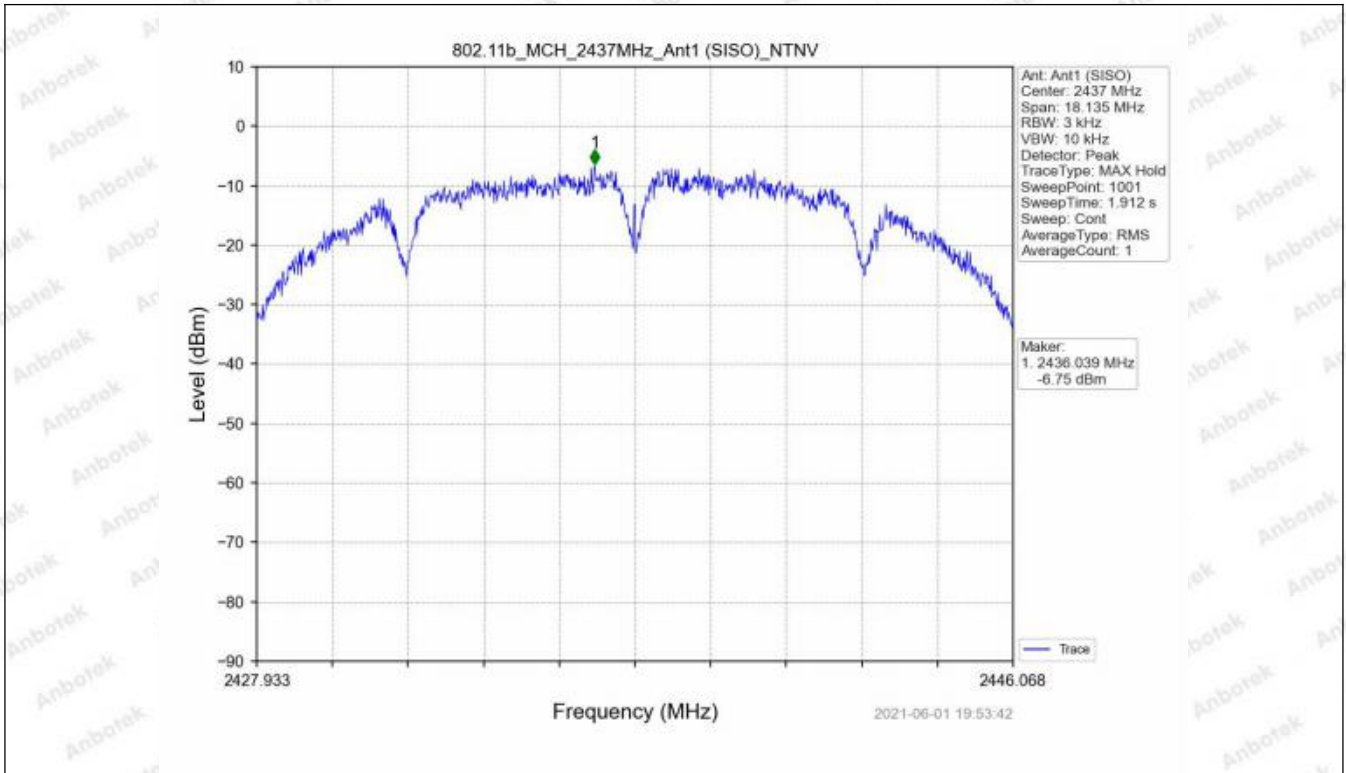
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	-6.53	<=8	Pass
		2437	/	/	-6.75	<=8	Pass
		2462	/	/	-6.96	<=8	Pass
802.11g	SISO	2412	/	/	-17.15	<=8	Pass
		2437	/	/	-17.74	<=8	Pass
		2462	/	/	-18.91	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-17.16	<=8	Pass
		2437	/	/	-17.50	<=8	Pass
		2462	/	/	-18.18	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-20.60	<=8	Pass
		2437	/	/	-20.99	<=8	Pass
		2452	/	/	-20.71	<=8	Pass

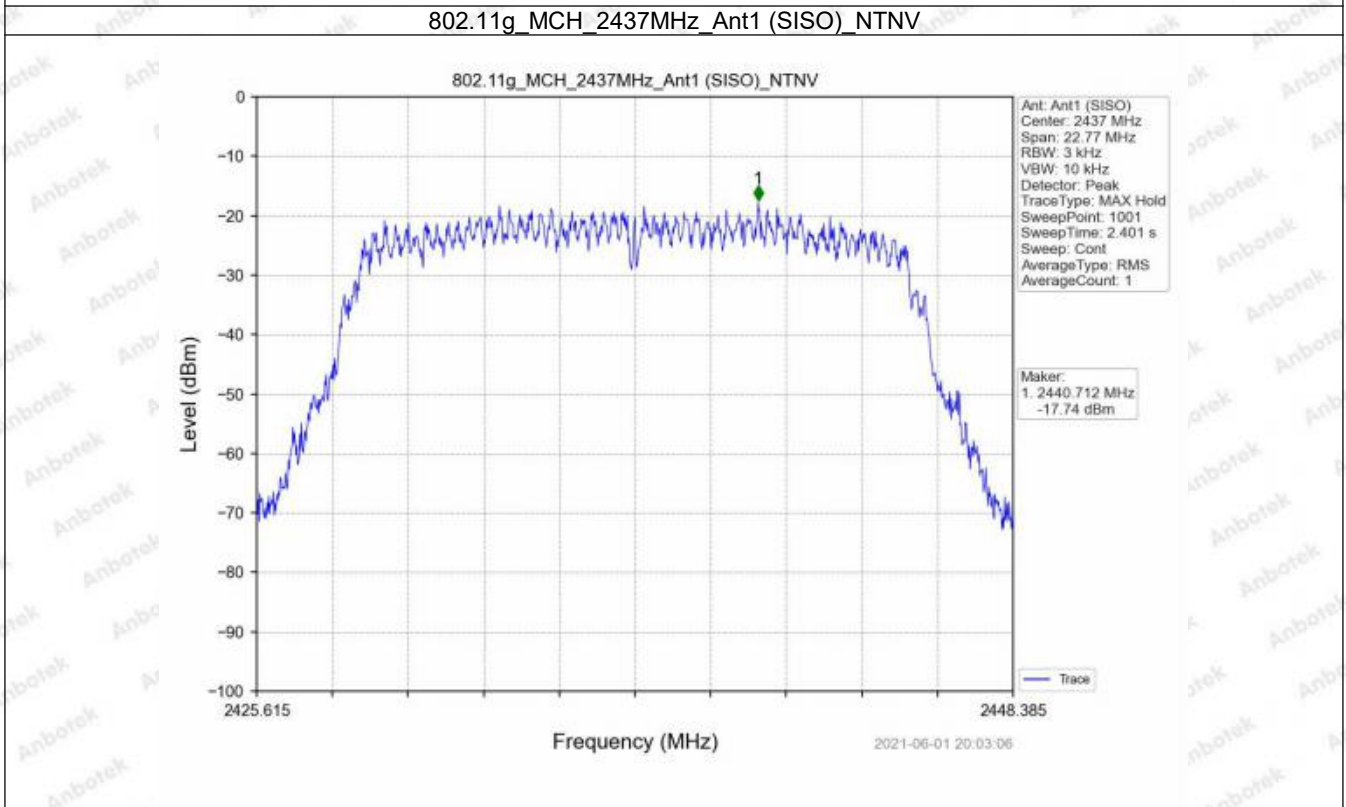
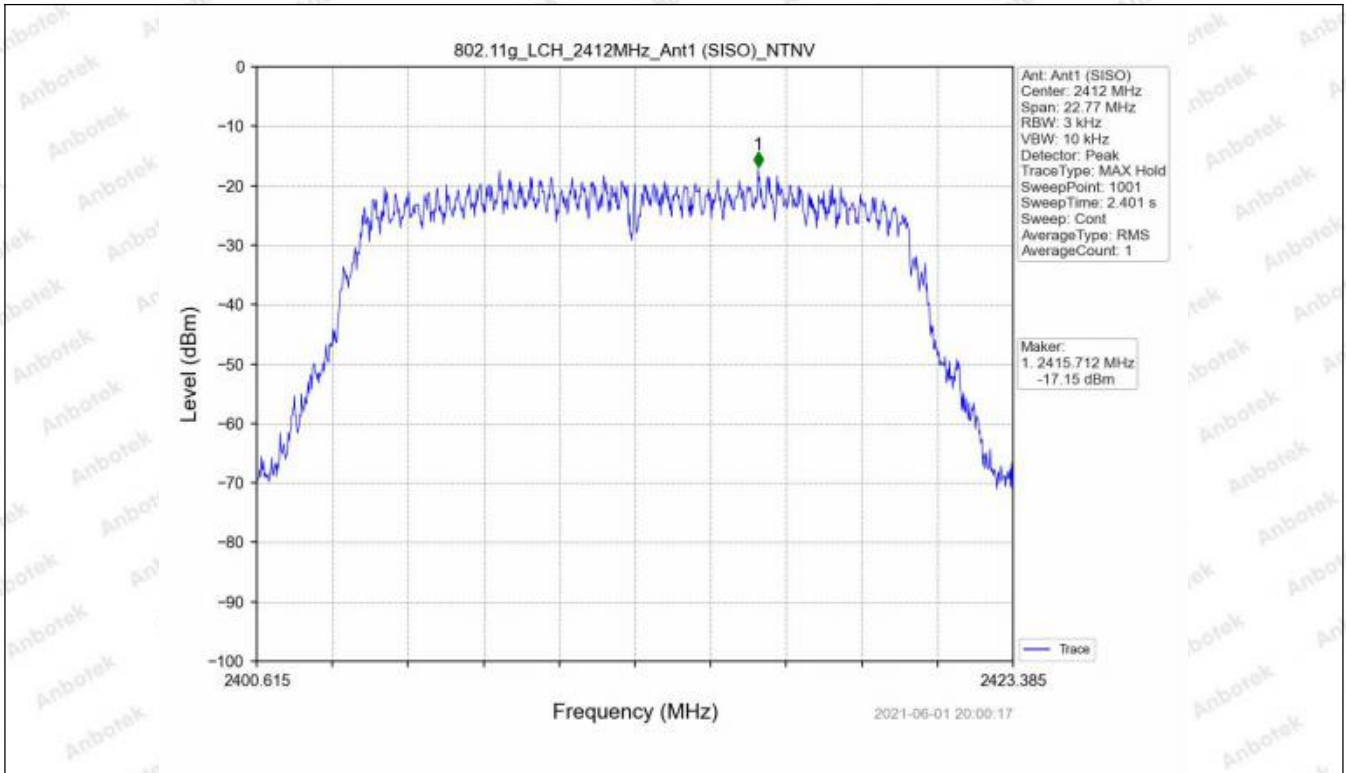
Note1: Antenna Gain: 0dBi;

4.1.2 Test Graph

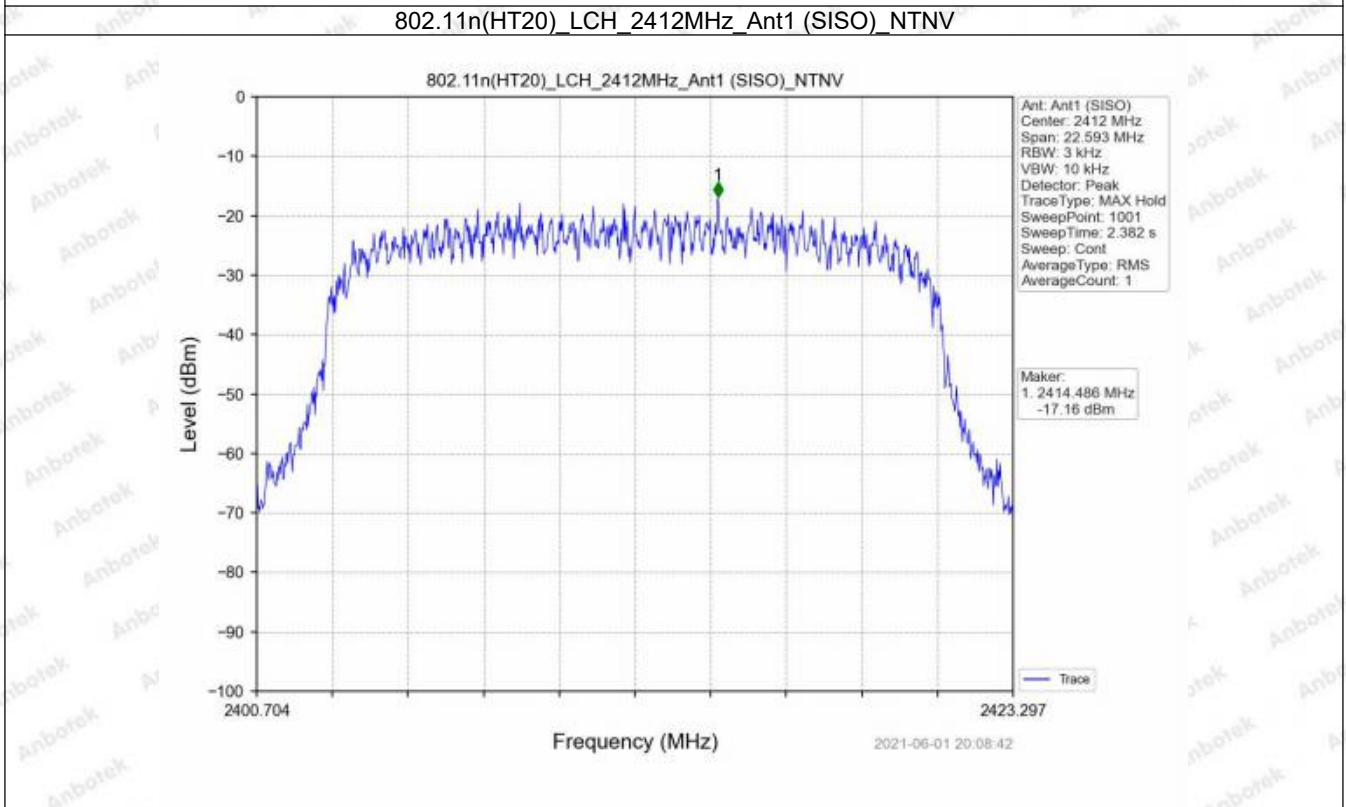
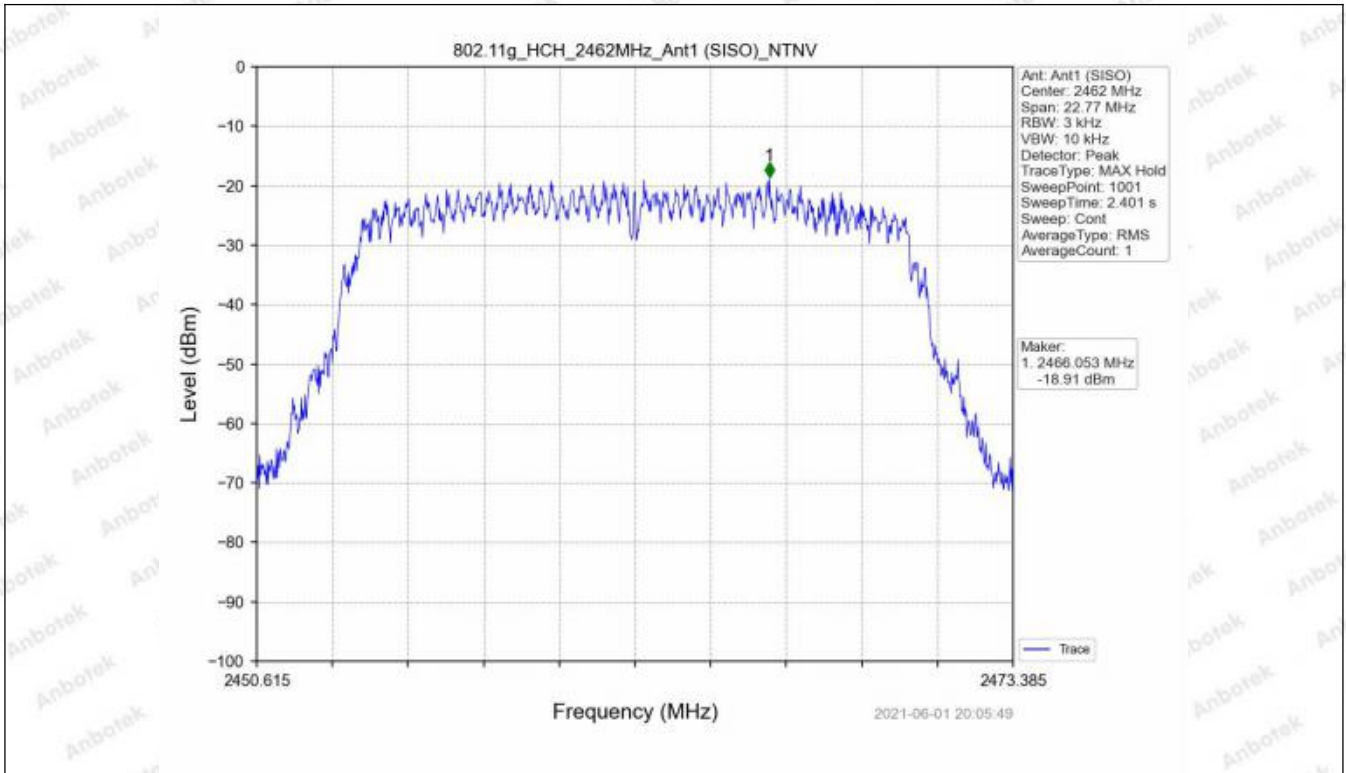




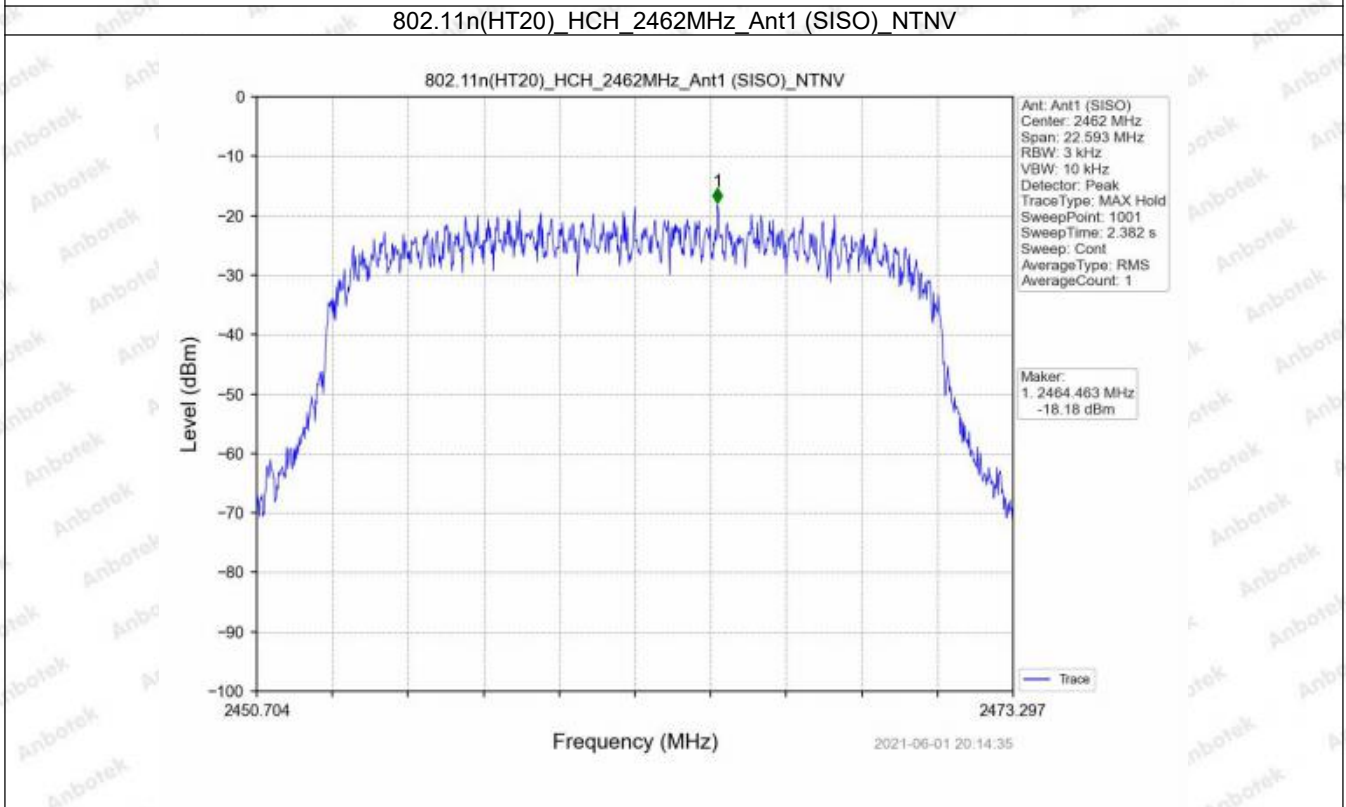
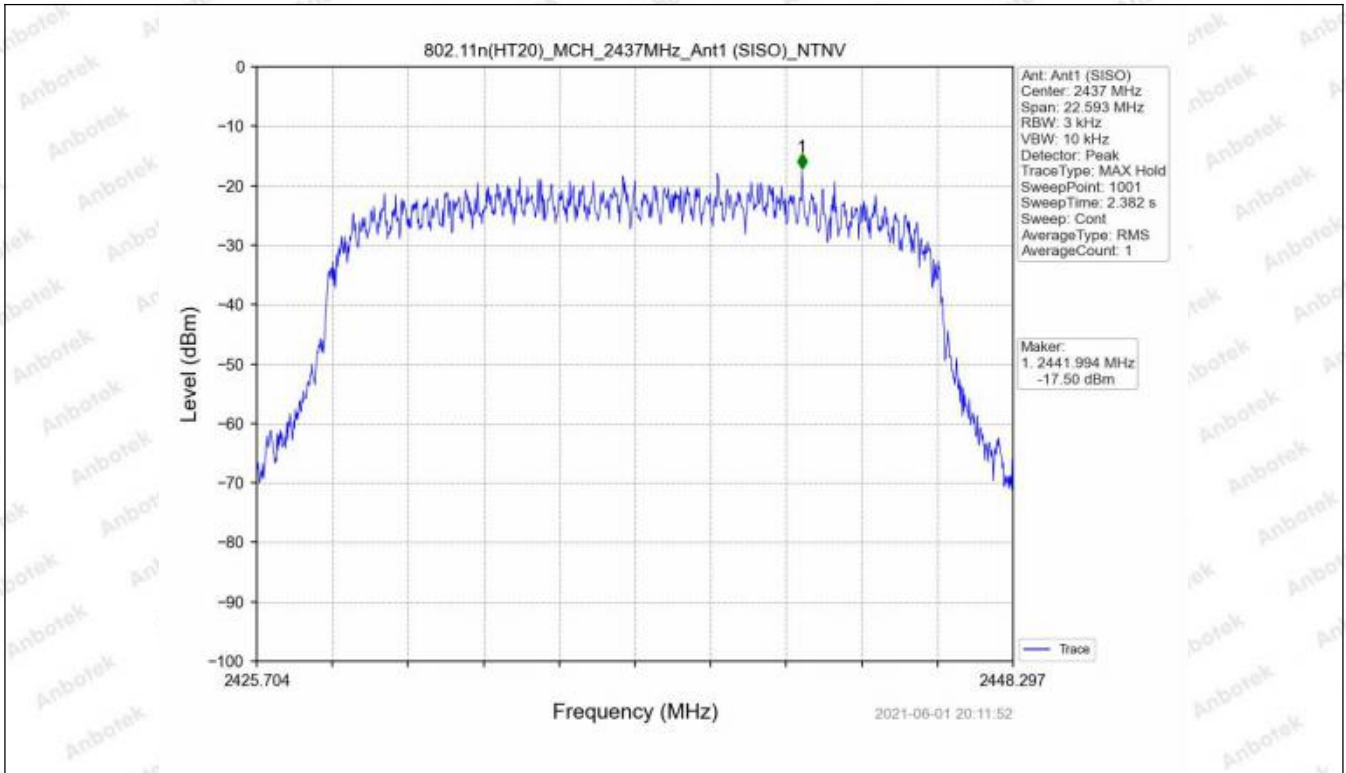
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



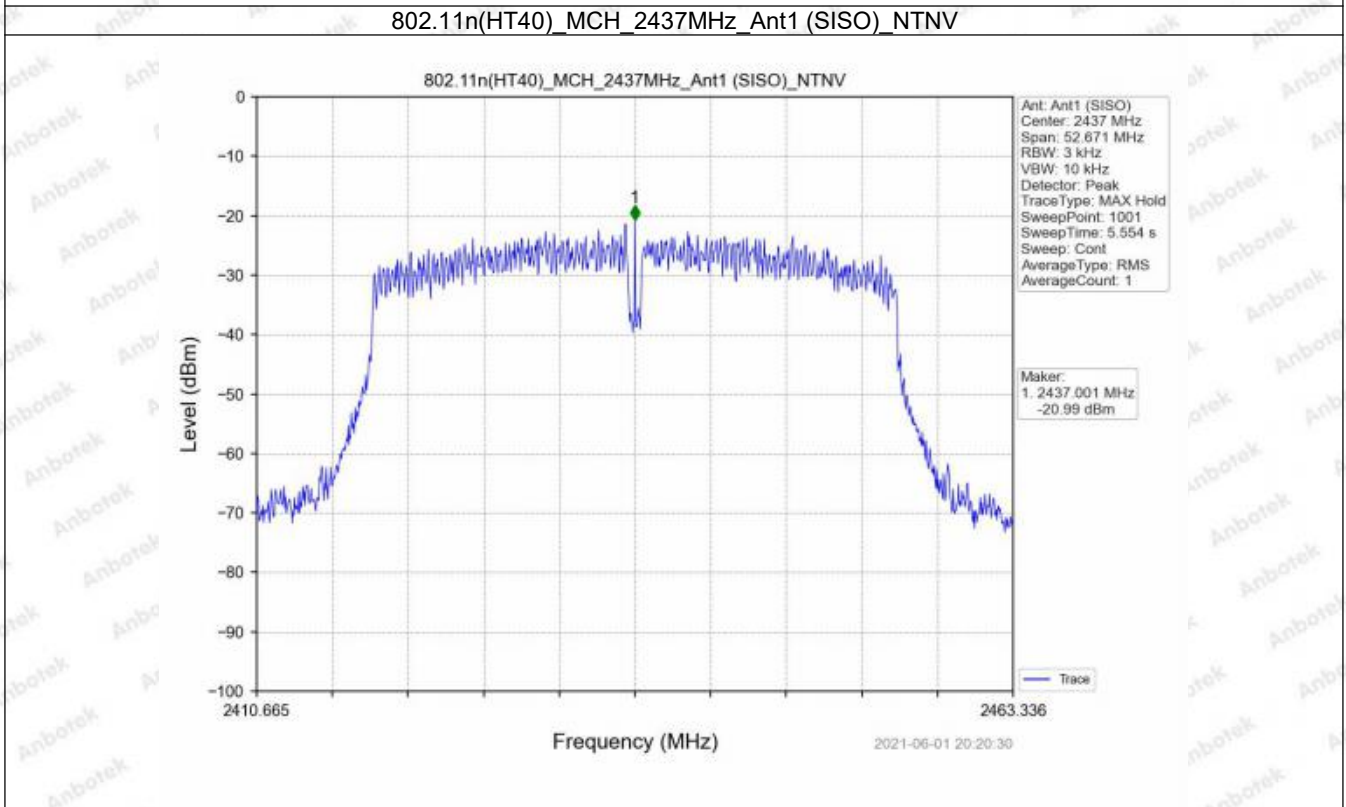
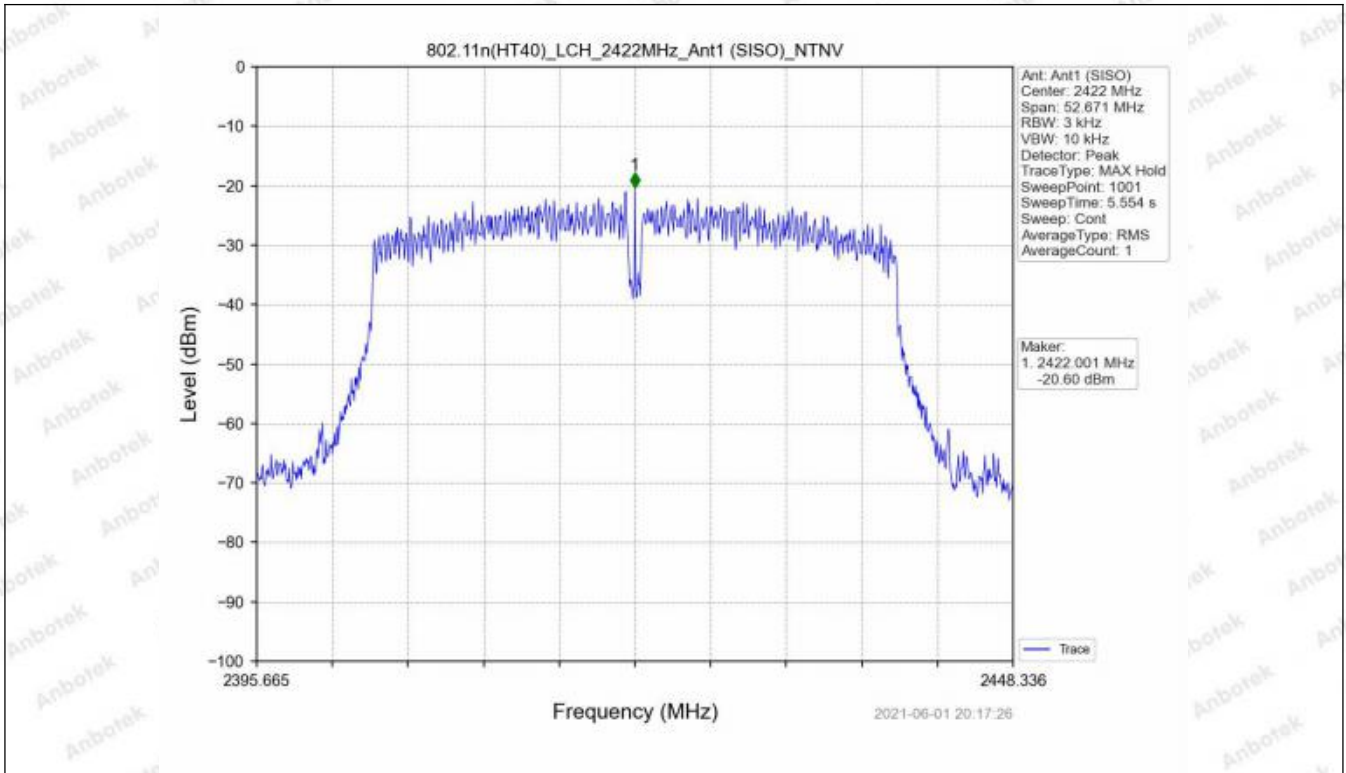
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



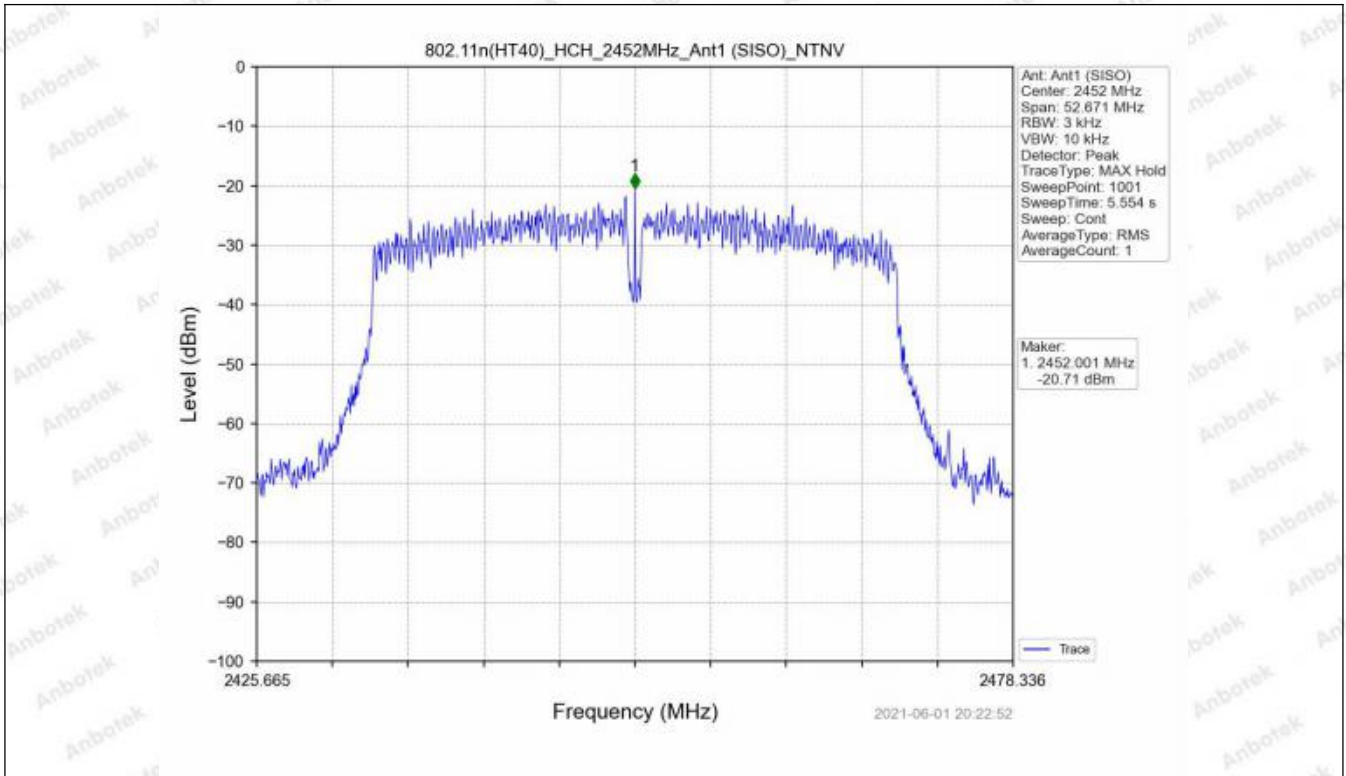
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

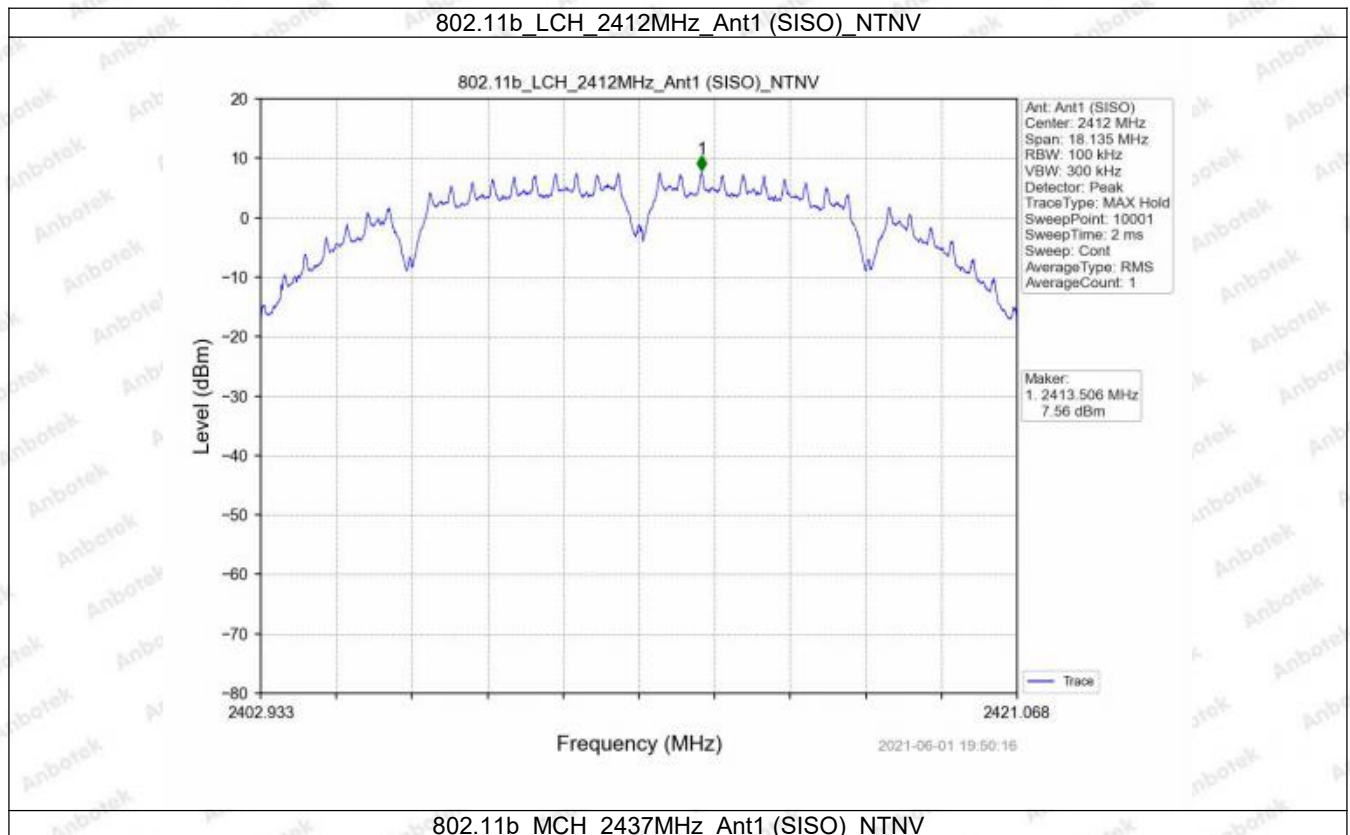
5.1 Ref

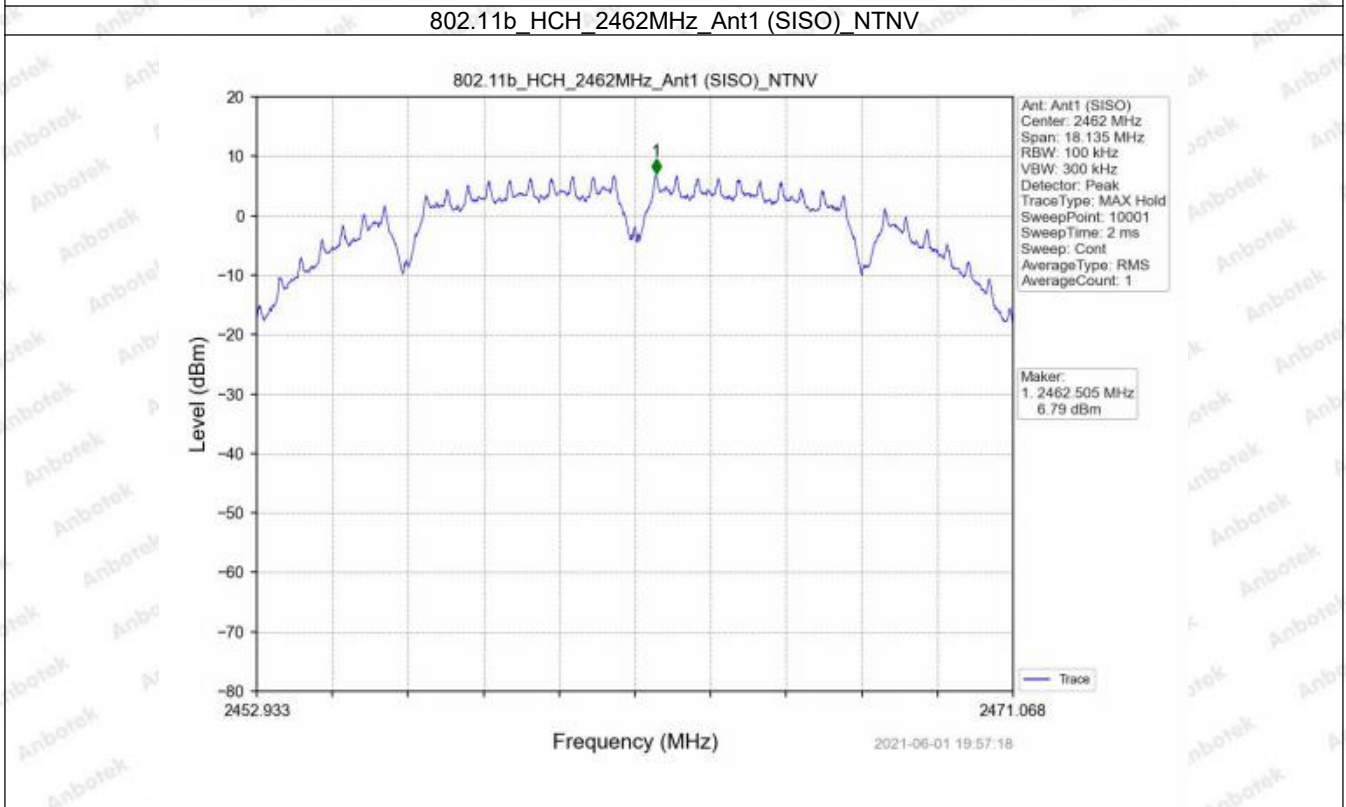
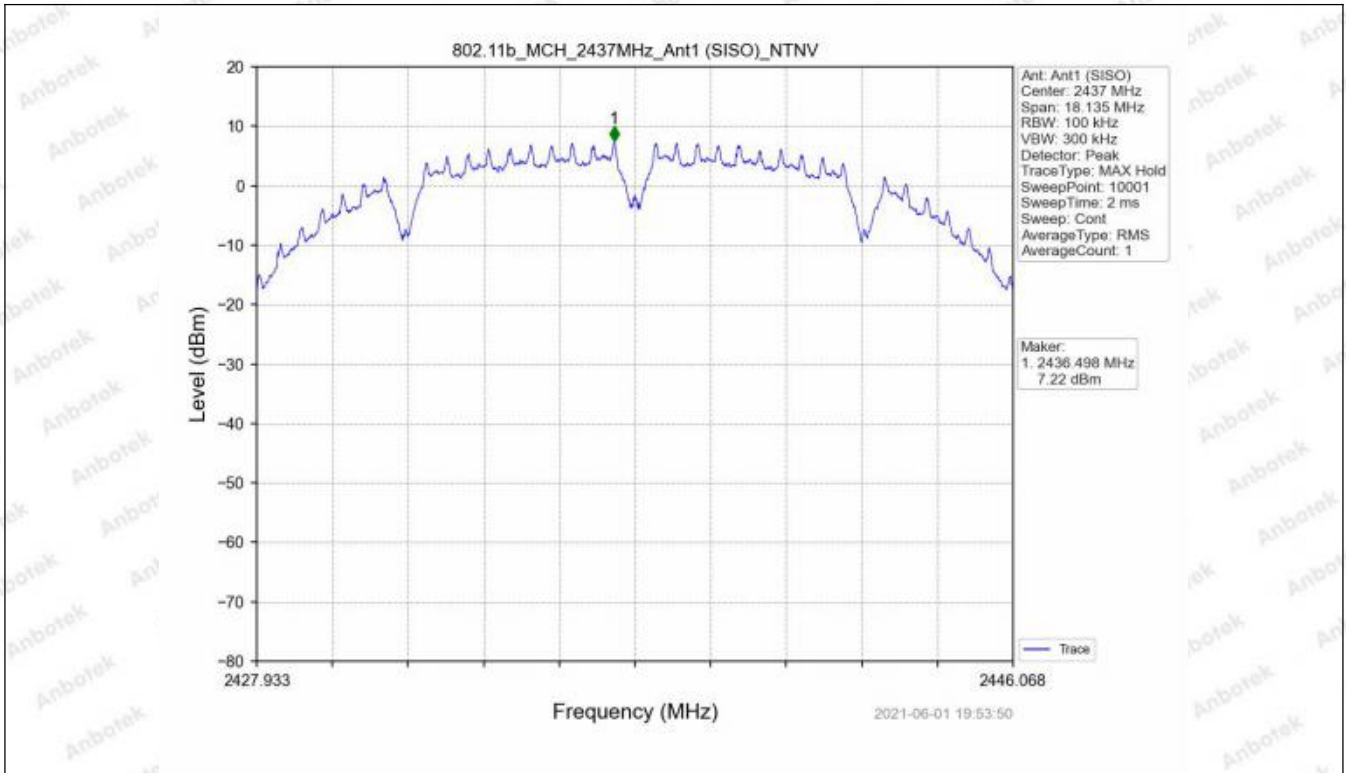
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	7.56	/	/
		2437	/	/	1	7.22	/	/
		2462	/	/	1	6.79	/	/
802.11g	SISO	2412	/	/	1	-2.81	/	/
		2437	/	/	1	-3.26	/	/
		2462	/	/	1	-3.88	/	/
802.11n (HT20)	SISO	2412	/	/	1	-0.07	/	/
		2437	/	/	1	-0.67	/	/
		2462	/	/	1	-1.11	/	/
802.11n (HT40)	SISO	2422	/	/	1	-6.86	/	/
		2437	/	/	1	-7.16	/	/
		2452	/	/	1	-7.59	/	/

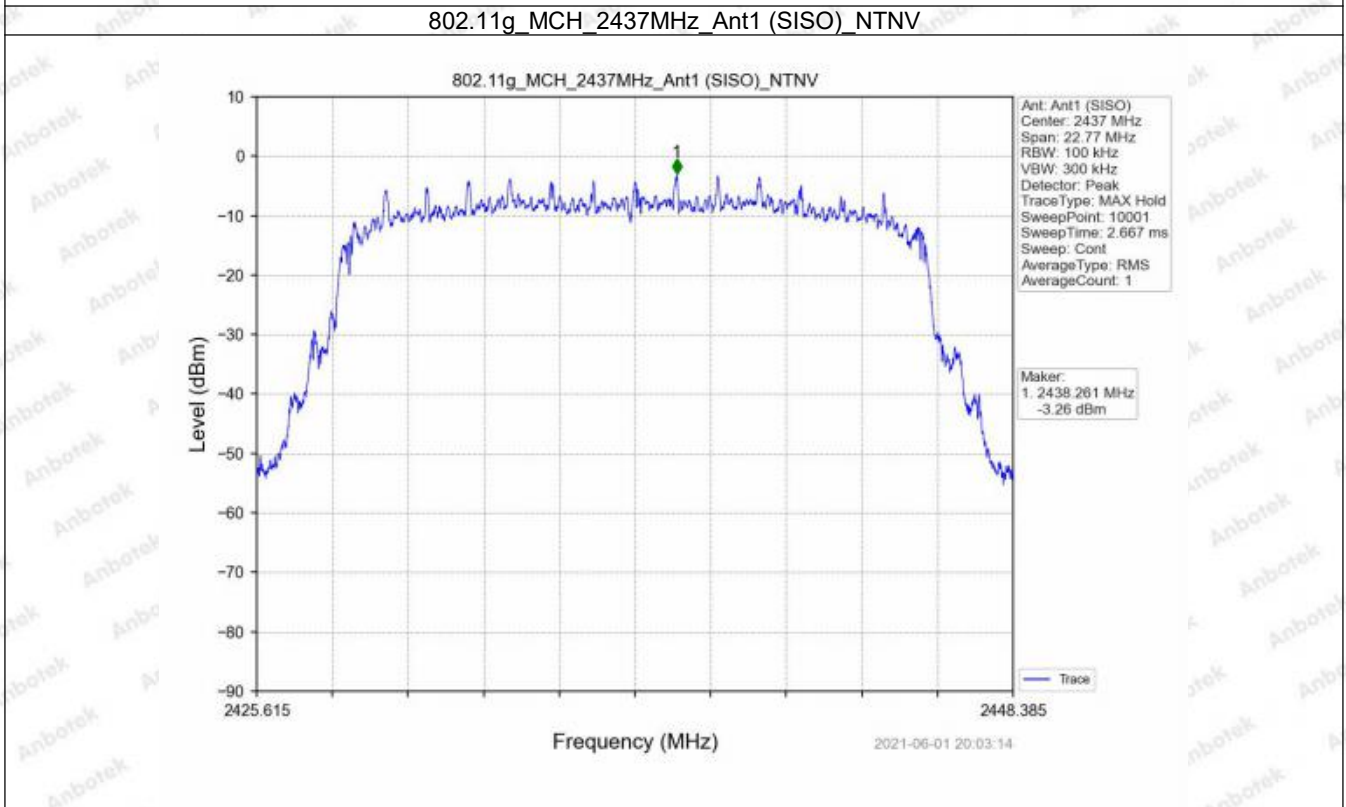
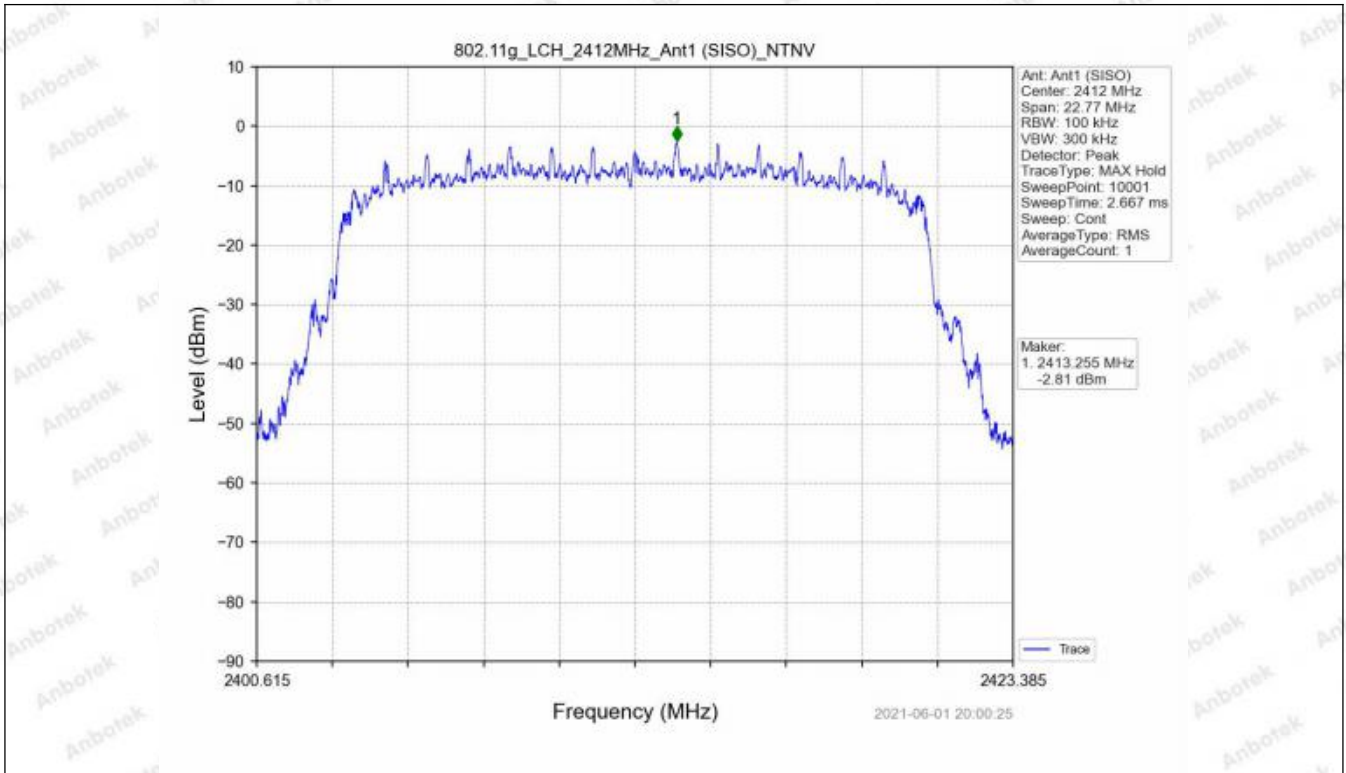
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph

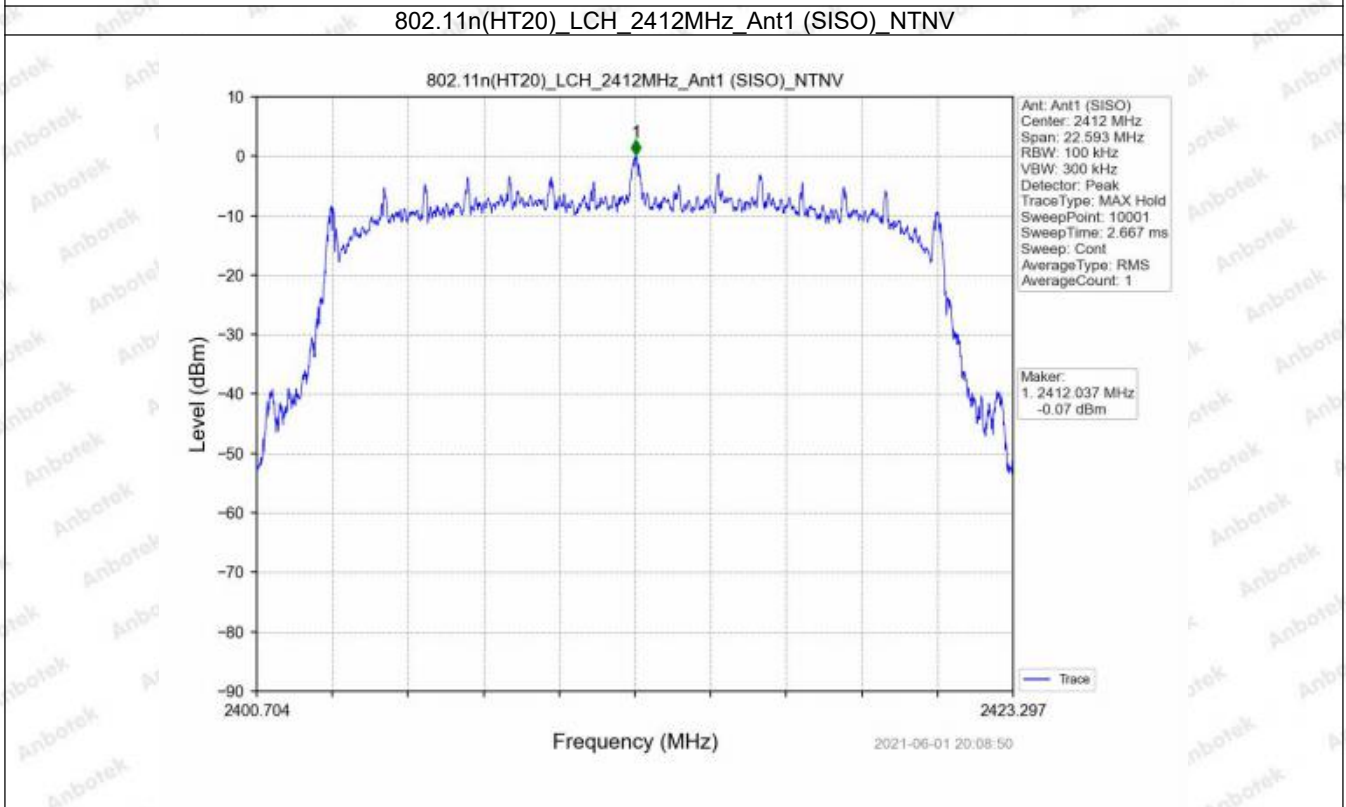
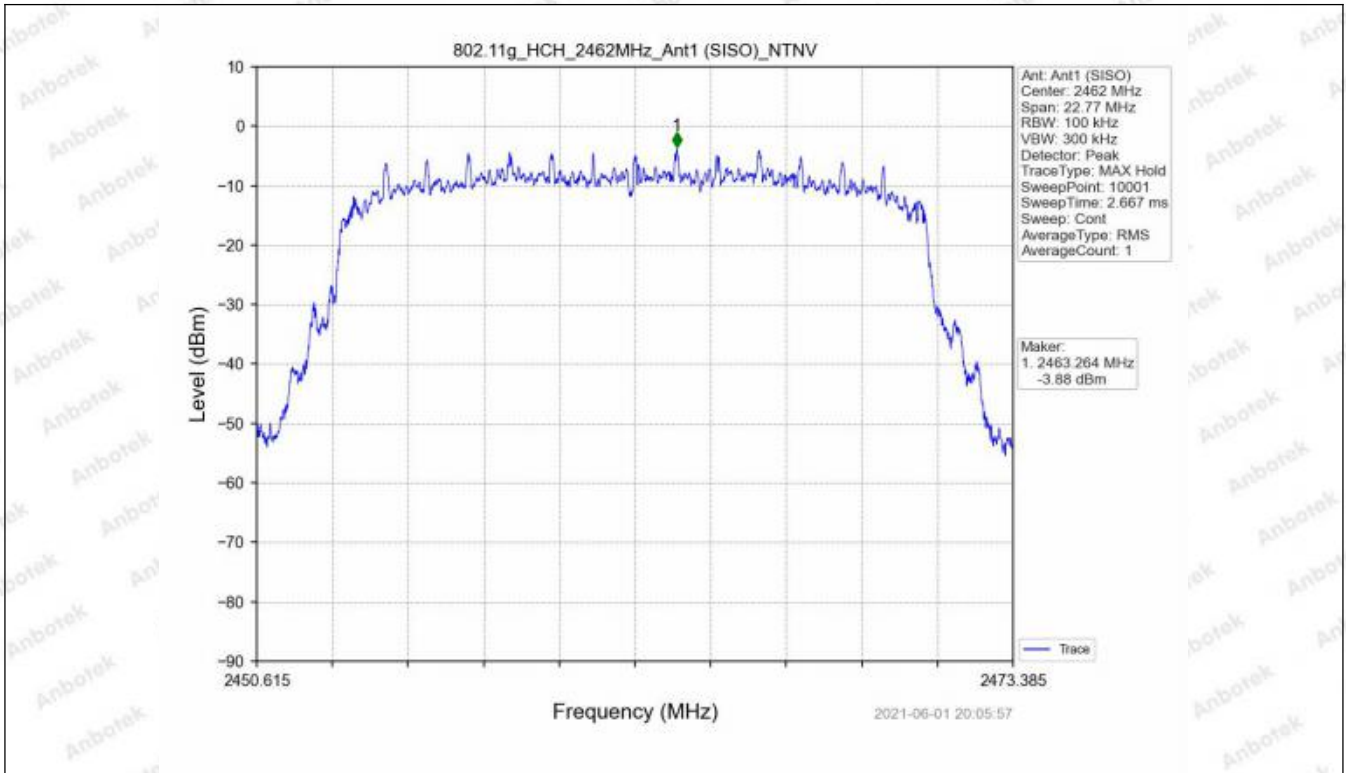




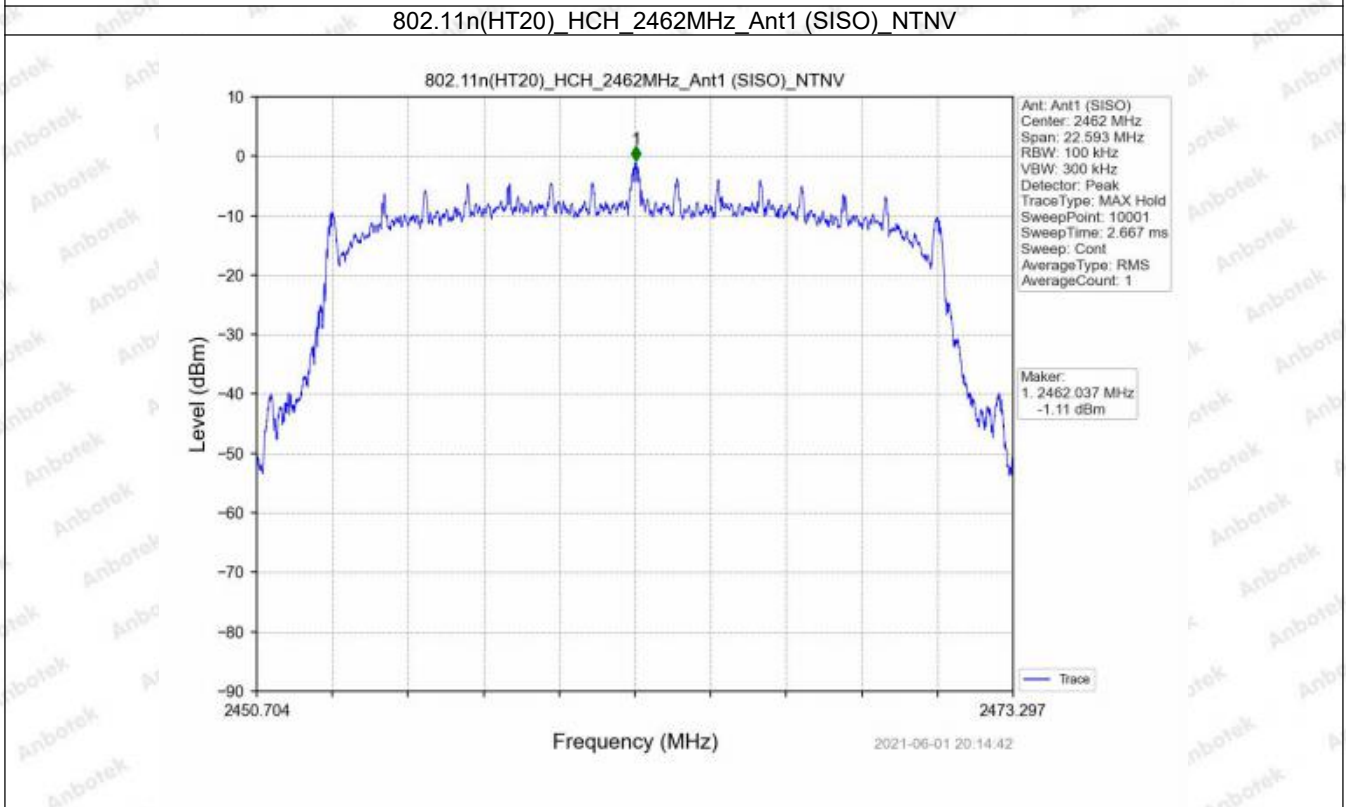
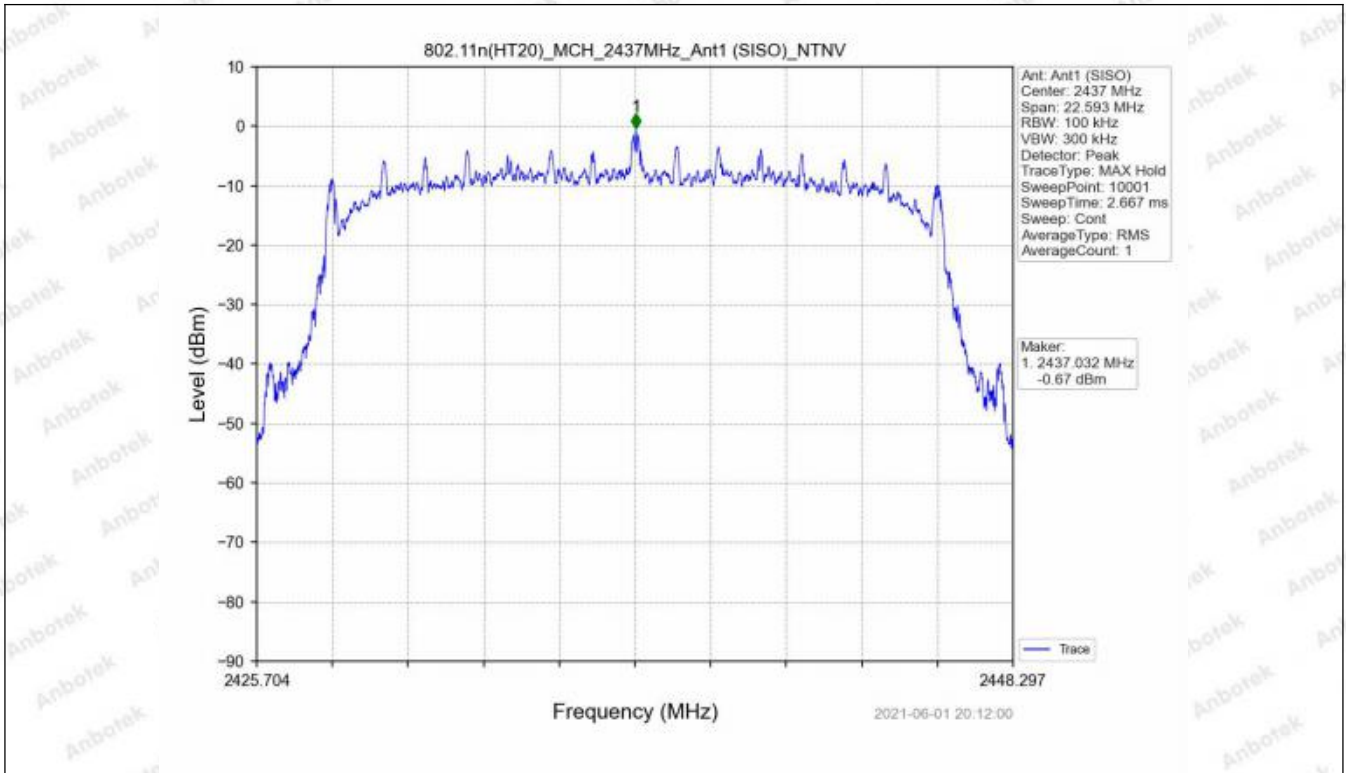
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



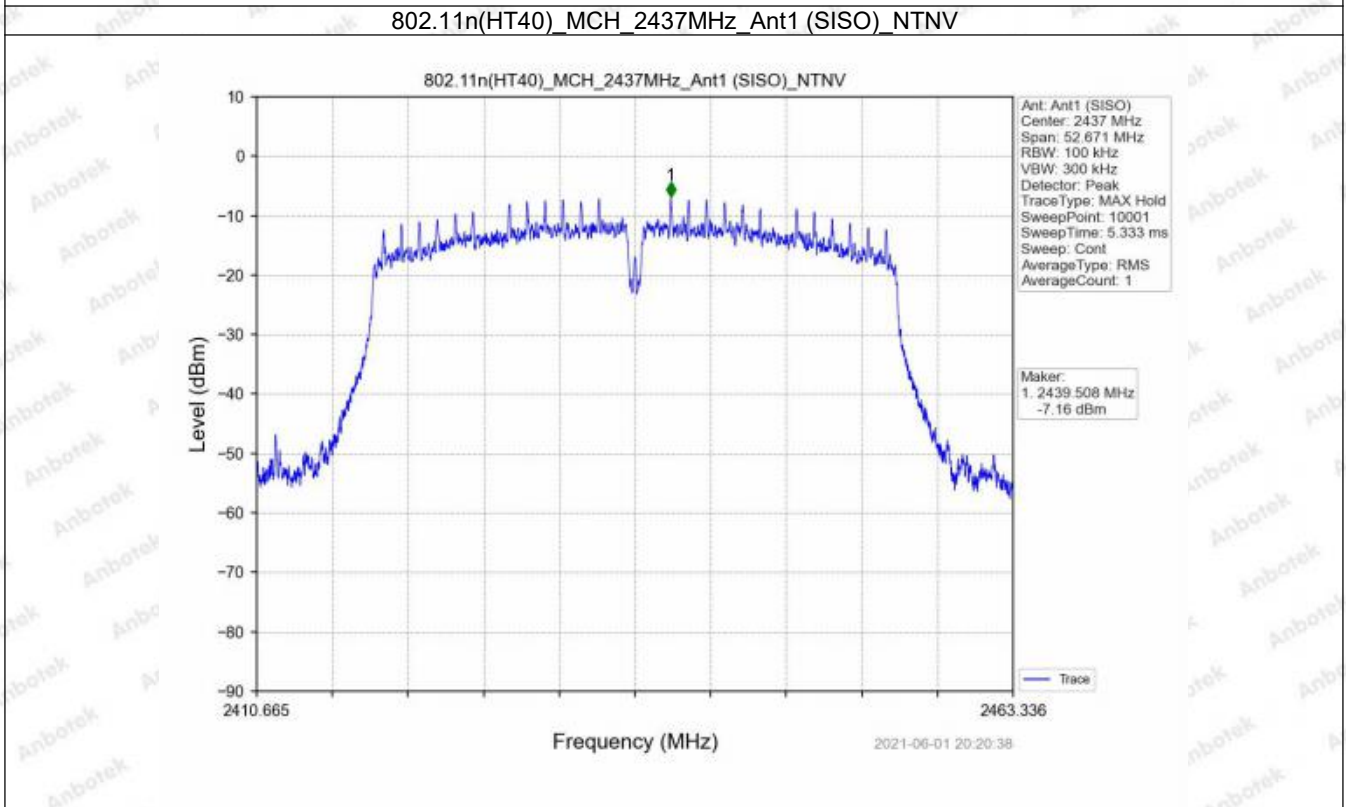
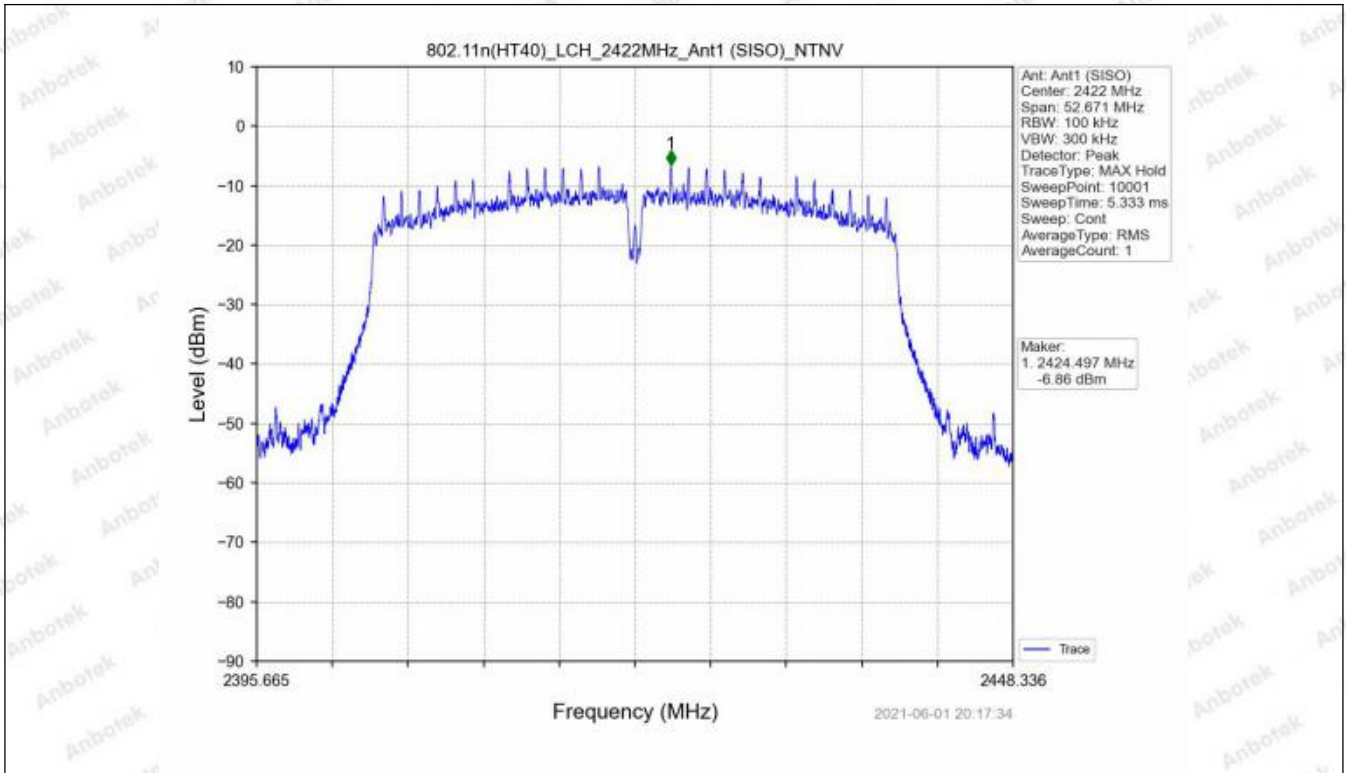
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



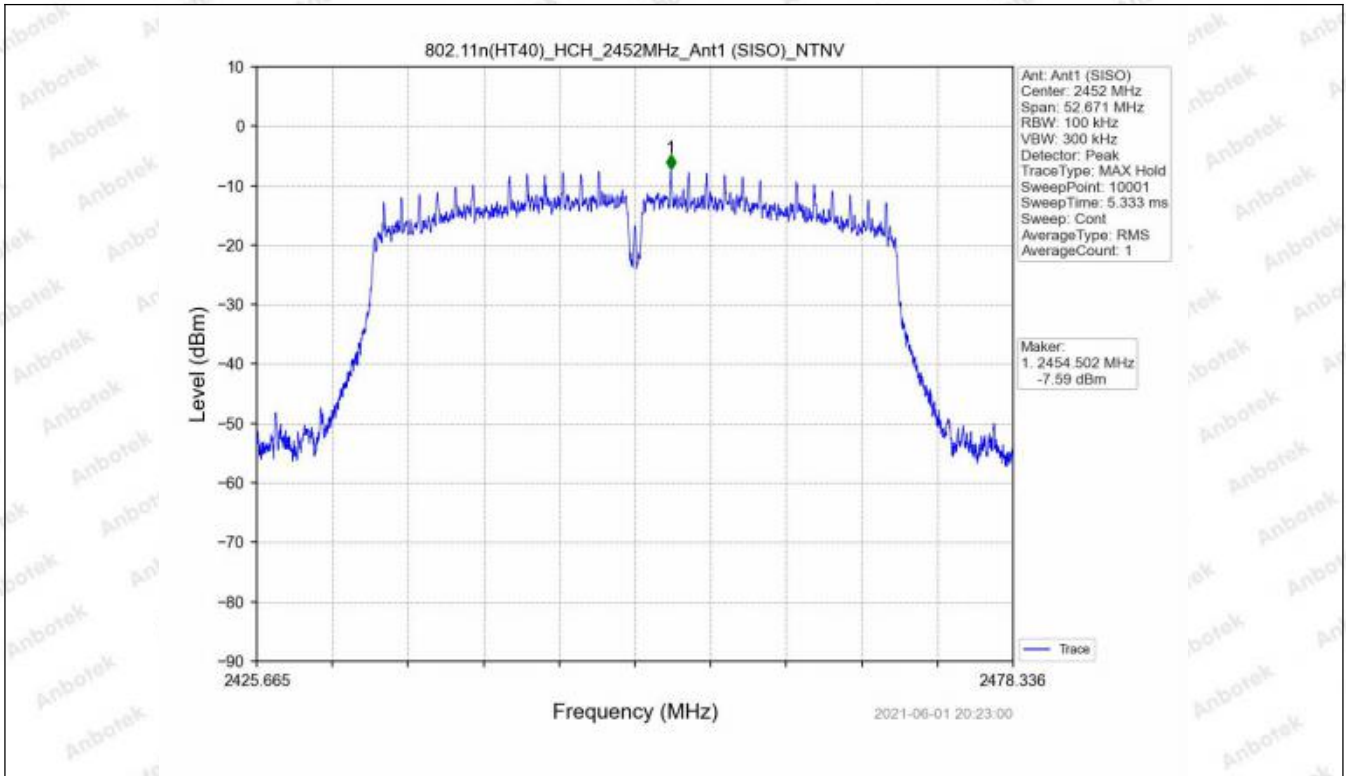
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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400-003-0500
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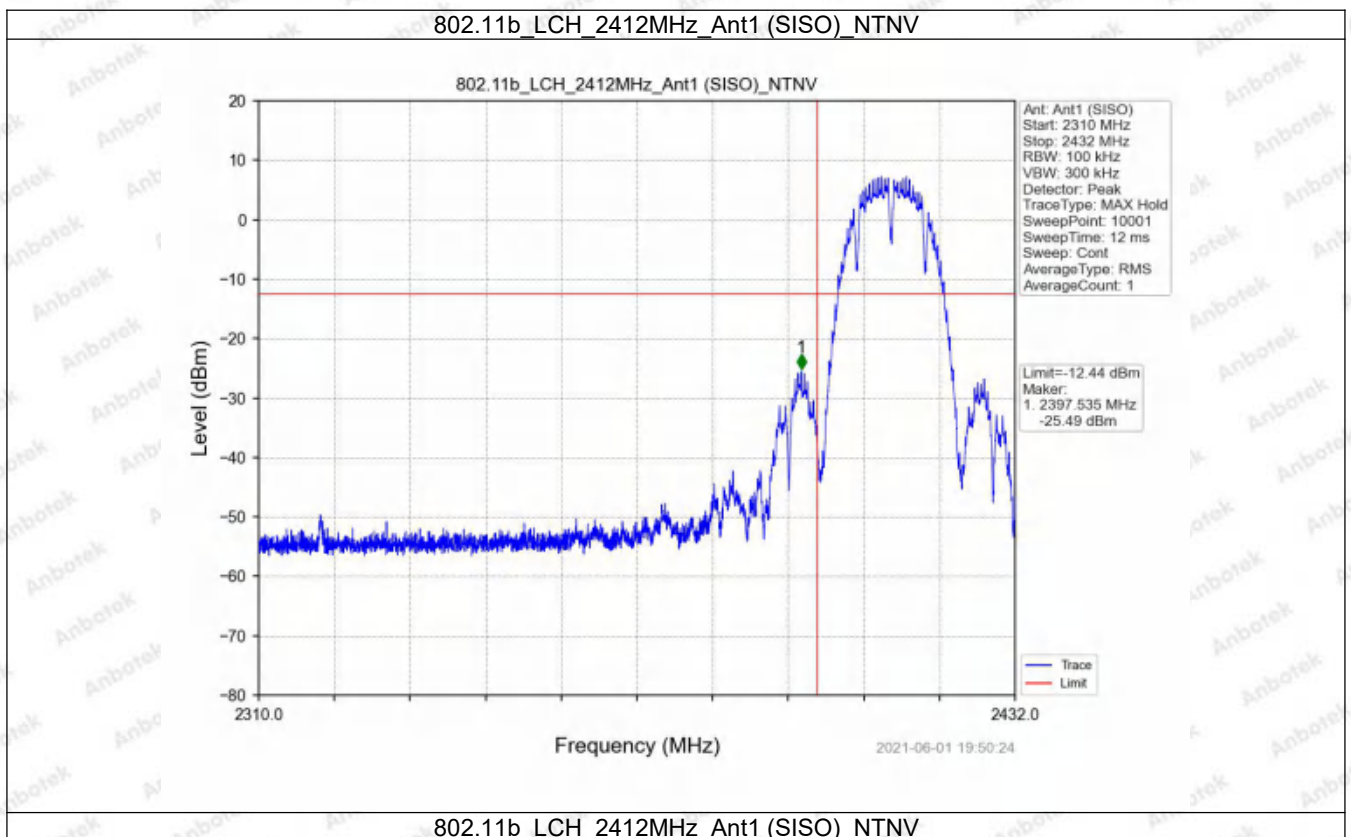
5.2 CSE

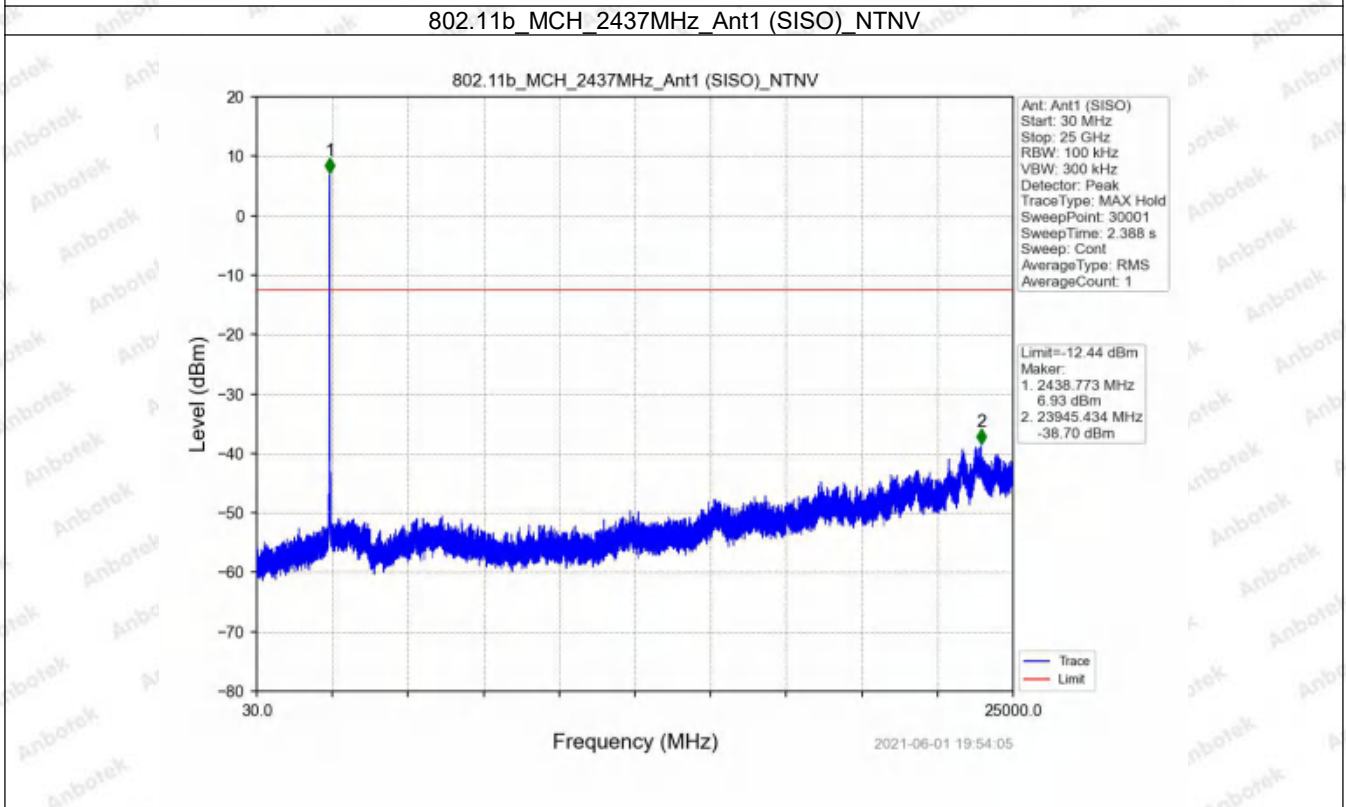
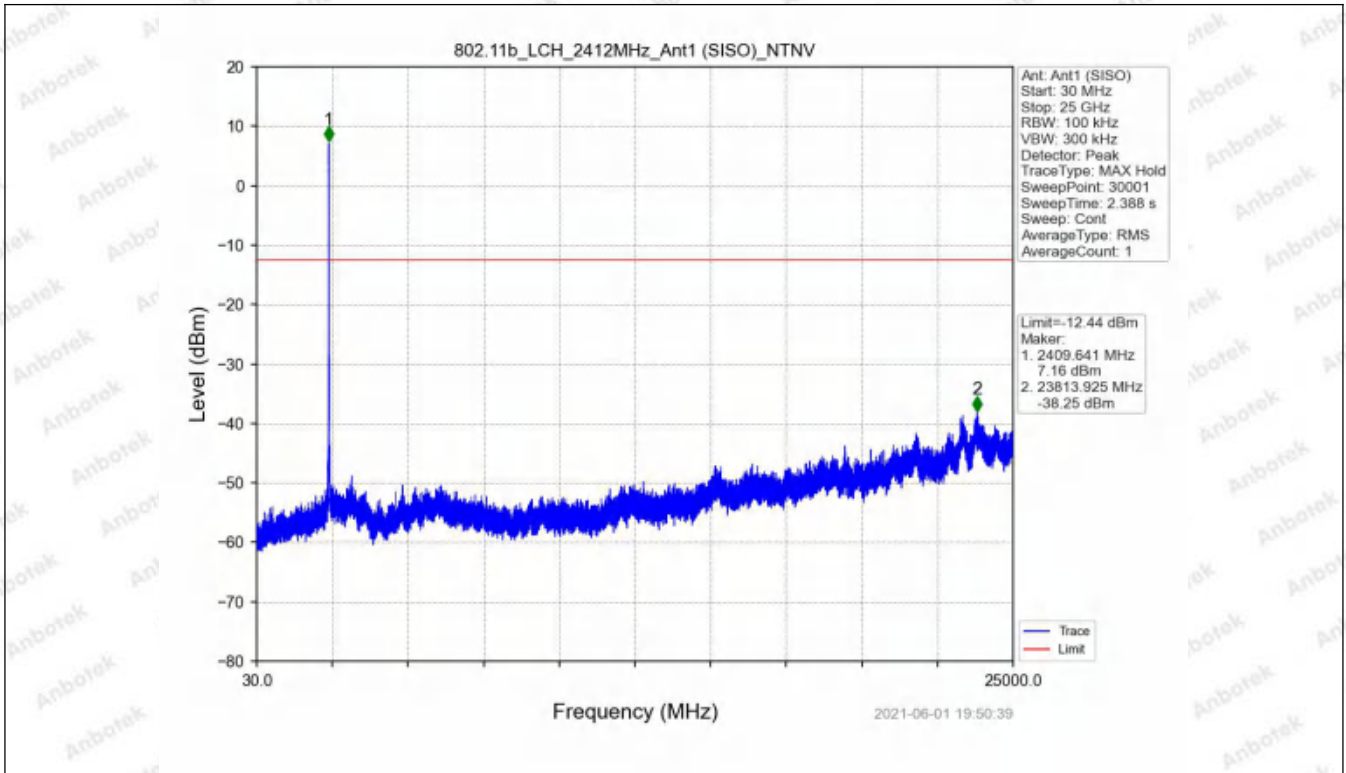
5.2.1 Test Result

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	<=-12.44	Pass
		2437	/	/	1	Refer To Test Graph	<=-12.44	Pass
		2462	/	/	1	Refer To Test Graph	<=-12.44	Pass
802.11g	SISO	2412	/	/	1	Refer To Test Graph	<=-22.81	Pass
		2437	/	/	1	Refer To Test Graph	<=-22.81	Pass
		2462	/	/	1	Refer To Test Graph	<=-22.81	Pass
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	<=-20.07	Pass
		2437	/	/	1	Refer To Test Graph	<=-20.07	Pass
		2462	/	/	1	Refer To Test Graph	<=-20.07	Pass
802.11n (HT40)	SISO	2422	/	/	1	Refer To Test Graph	<=-20.07	Pass
		2437	/	/	1	Refer To Test Graph	<=-20.07	Pass
		2452	/	/	1	Refer To Test Graph	<=-20.07	Pass

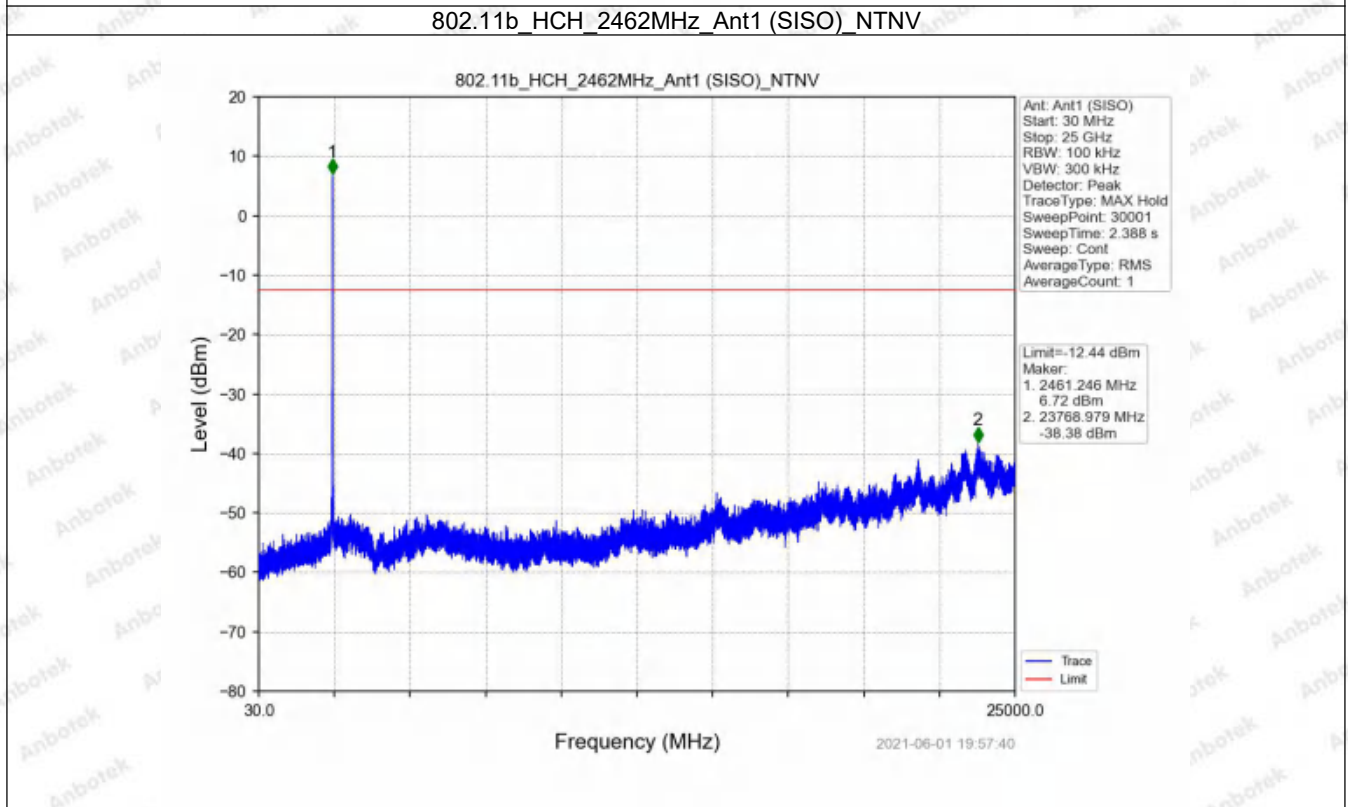
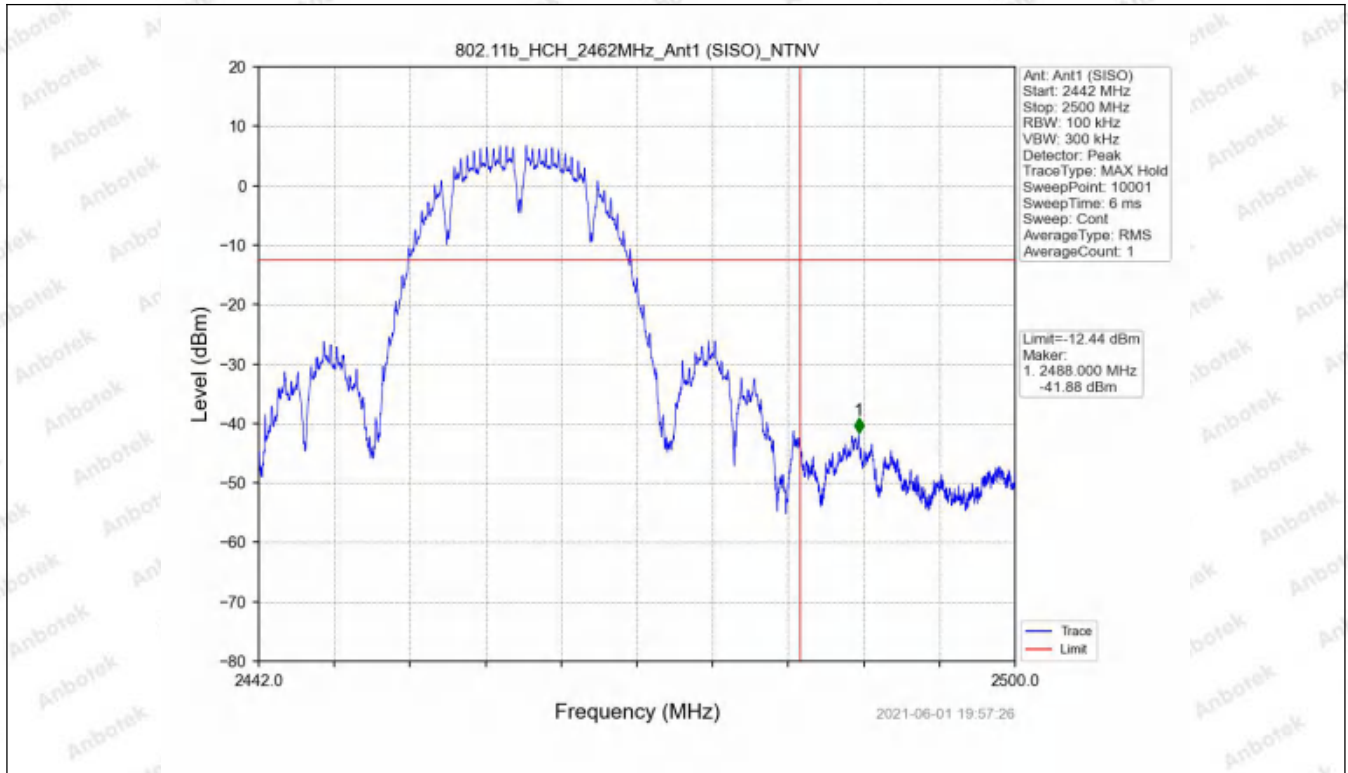
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2.2 Test Graph

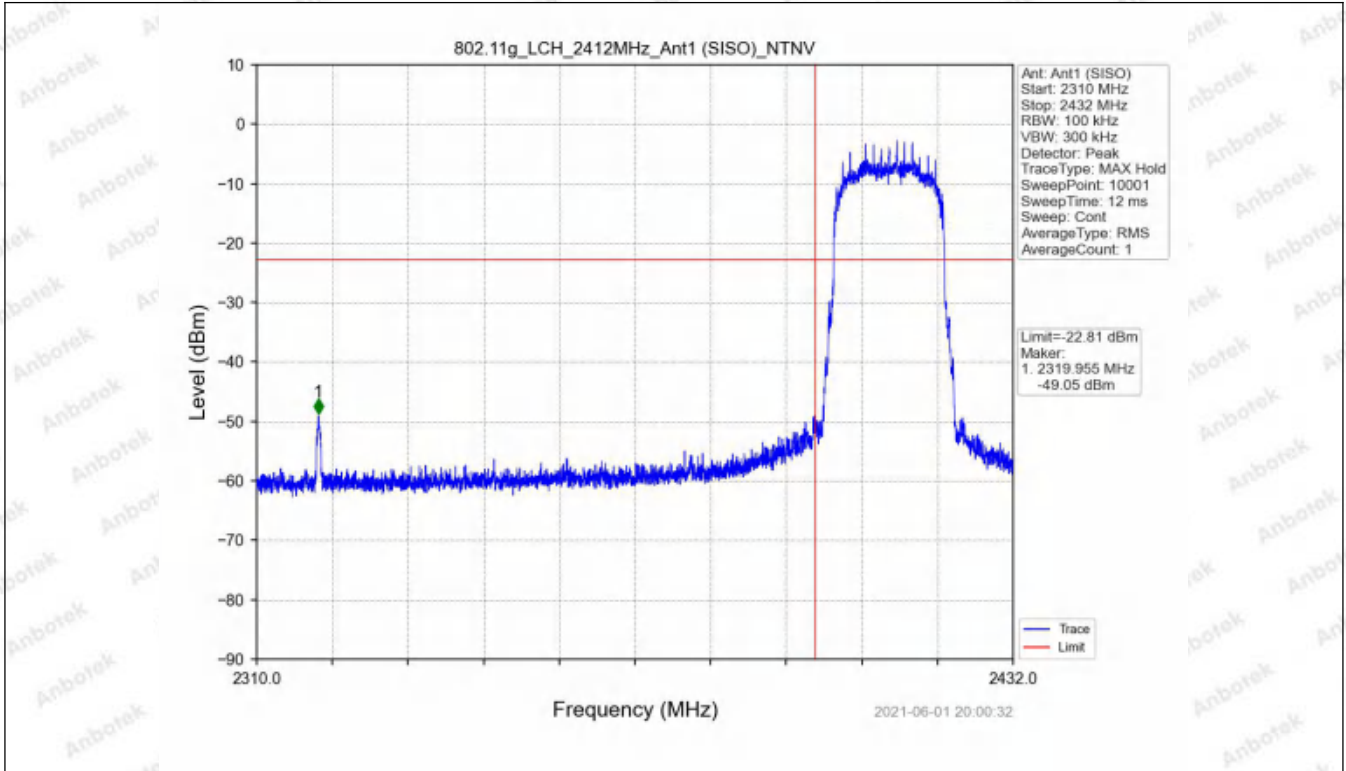




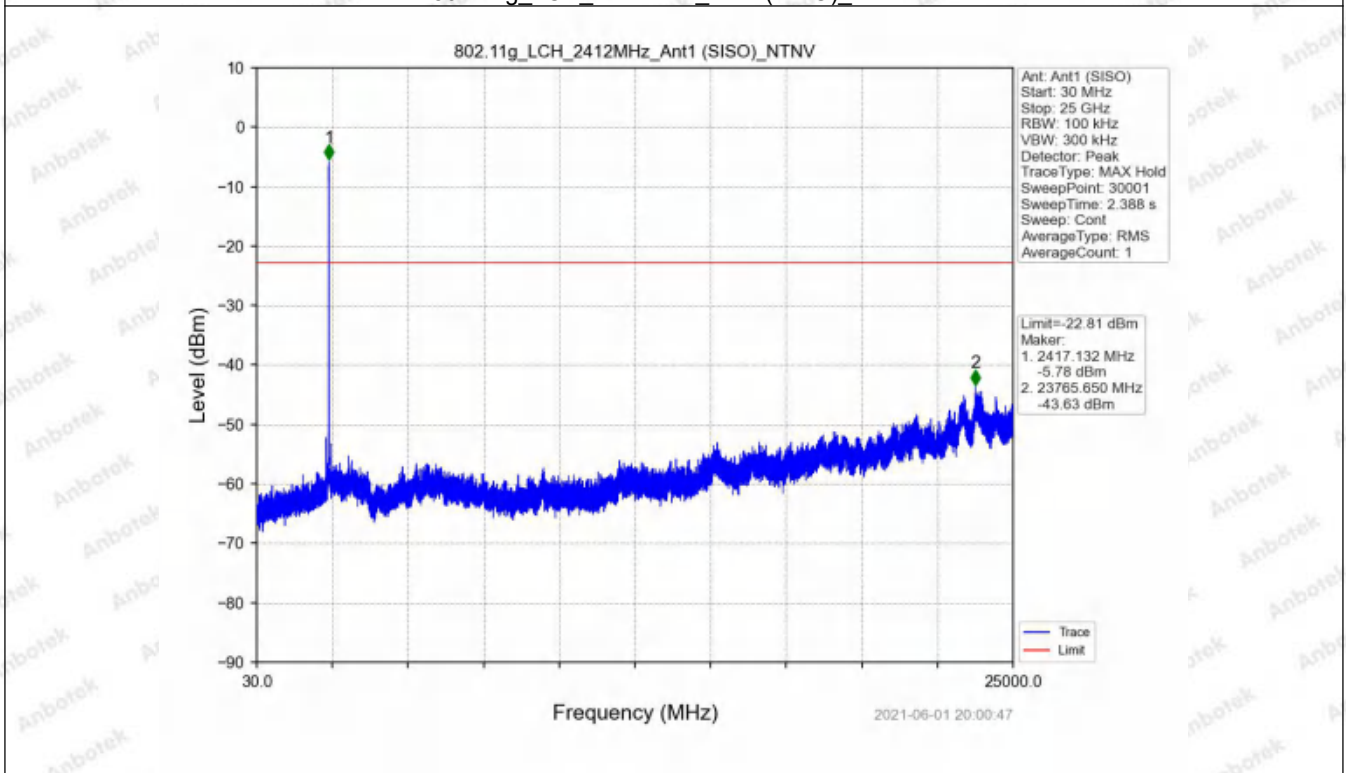
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



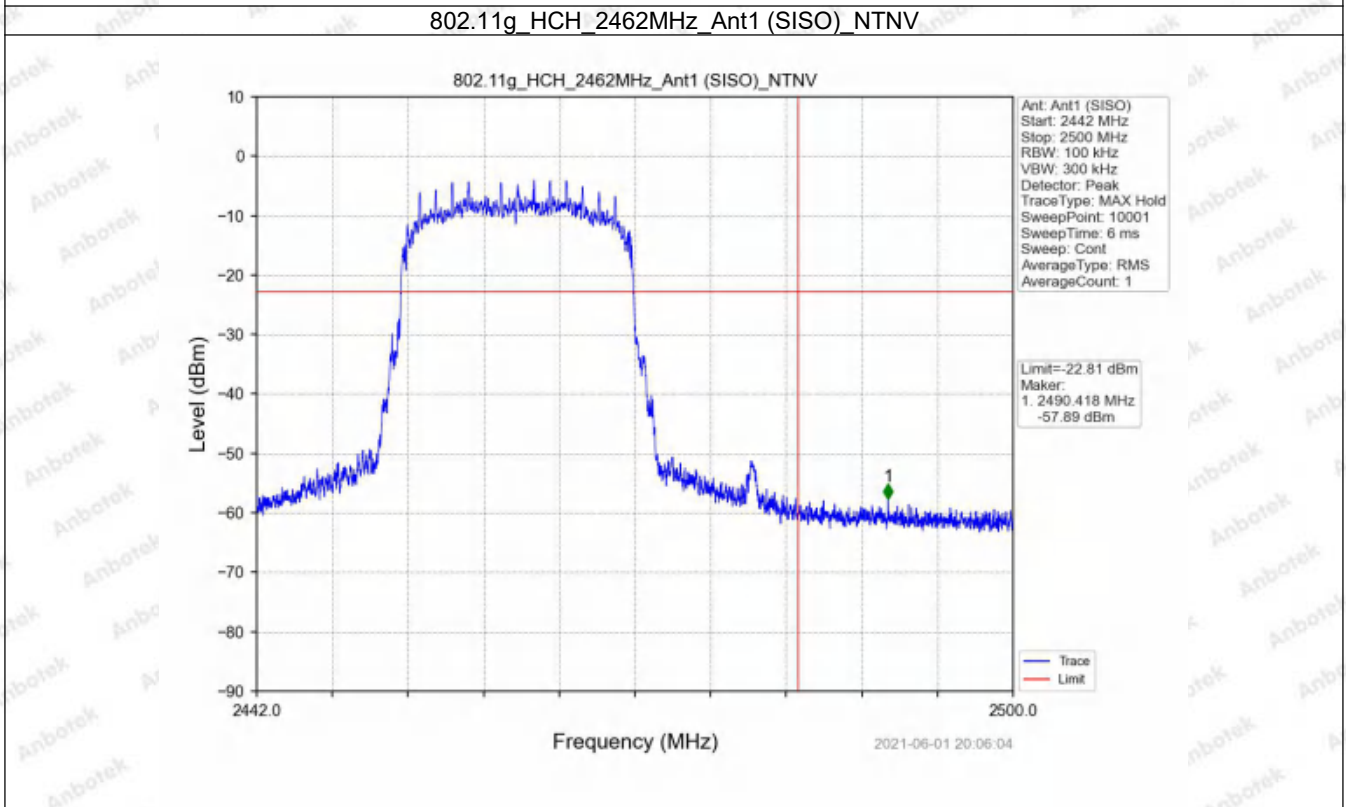
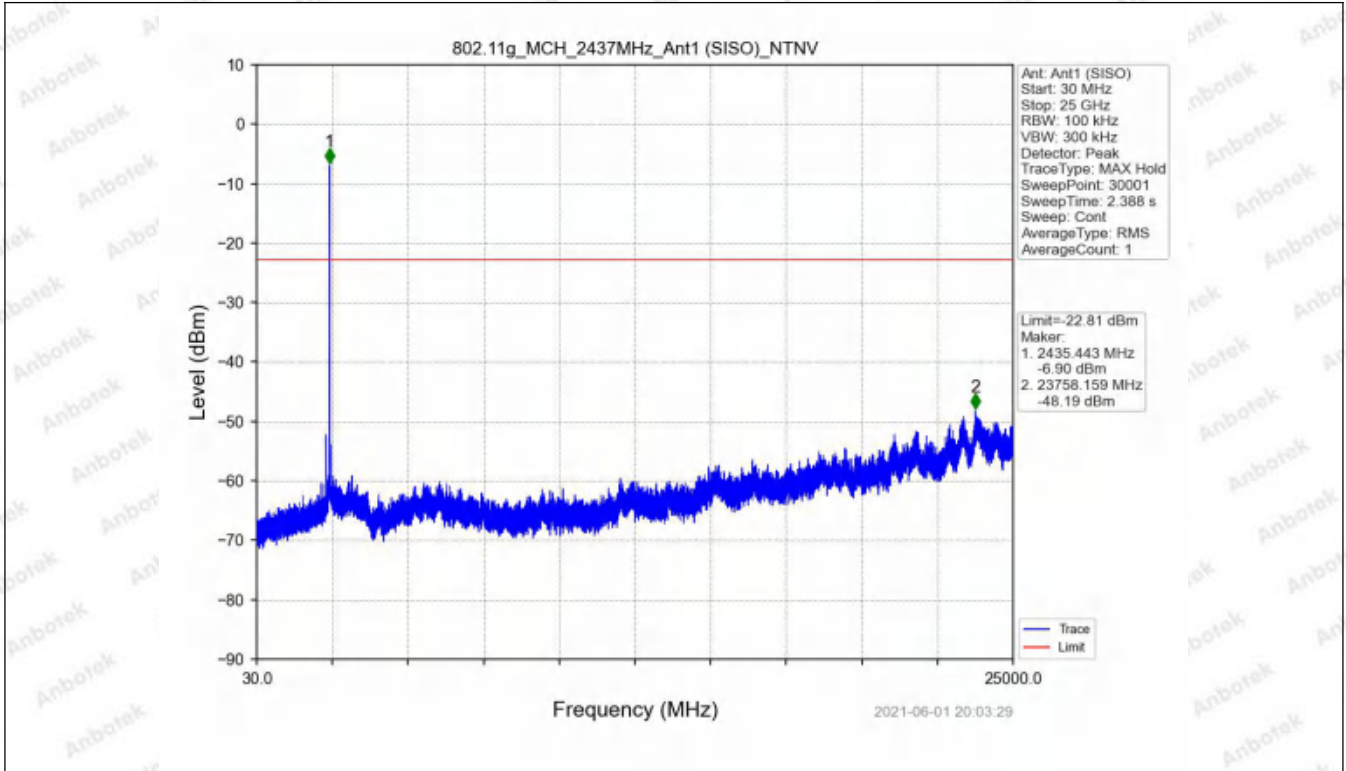
802.11g_LCH_2412MHz_Ant1 (SISO) NTNV



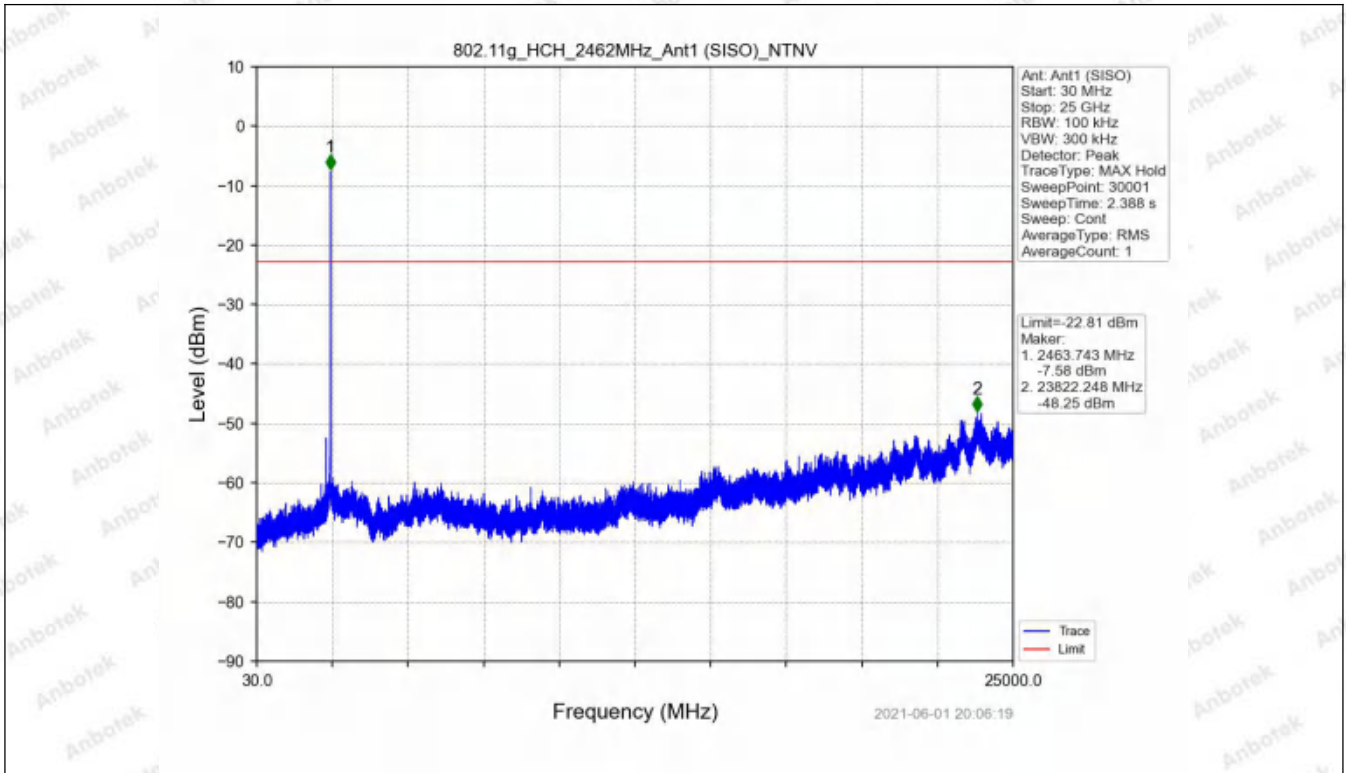
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



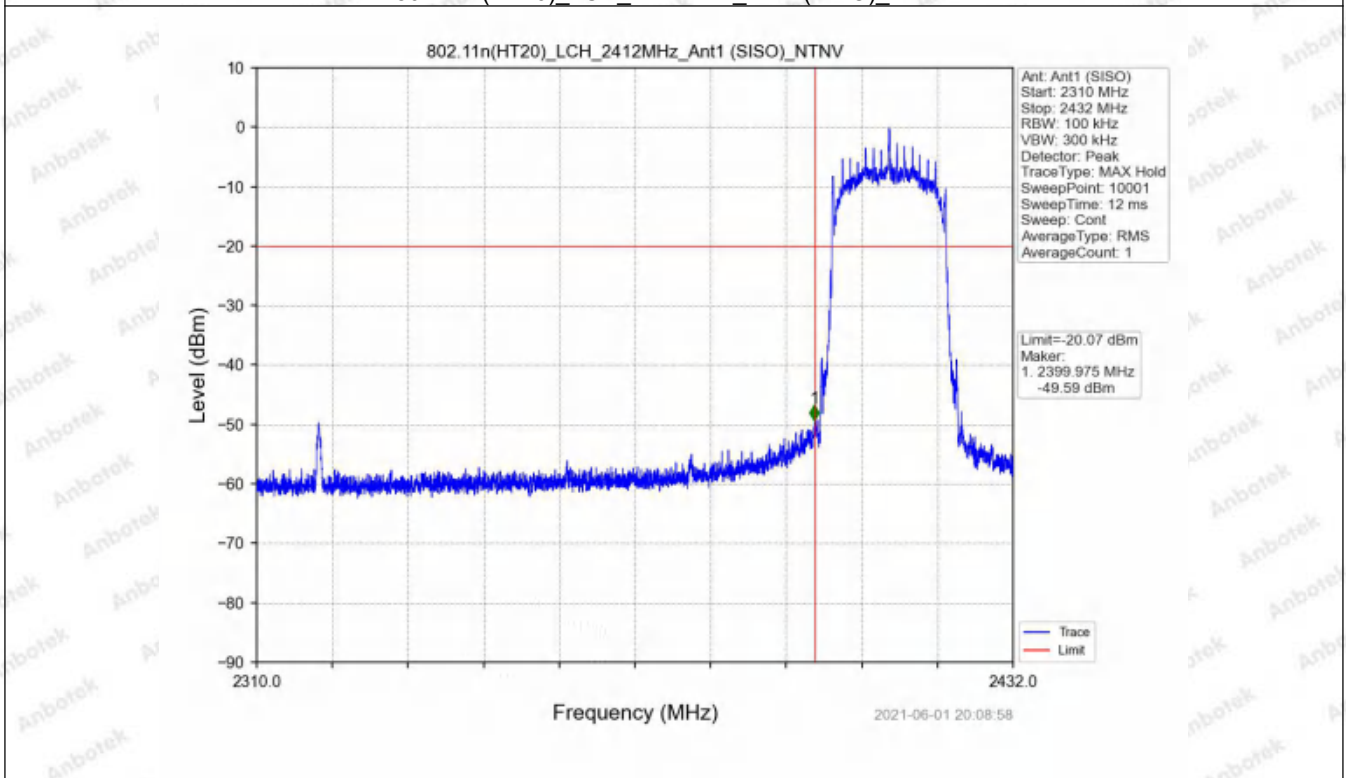
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



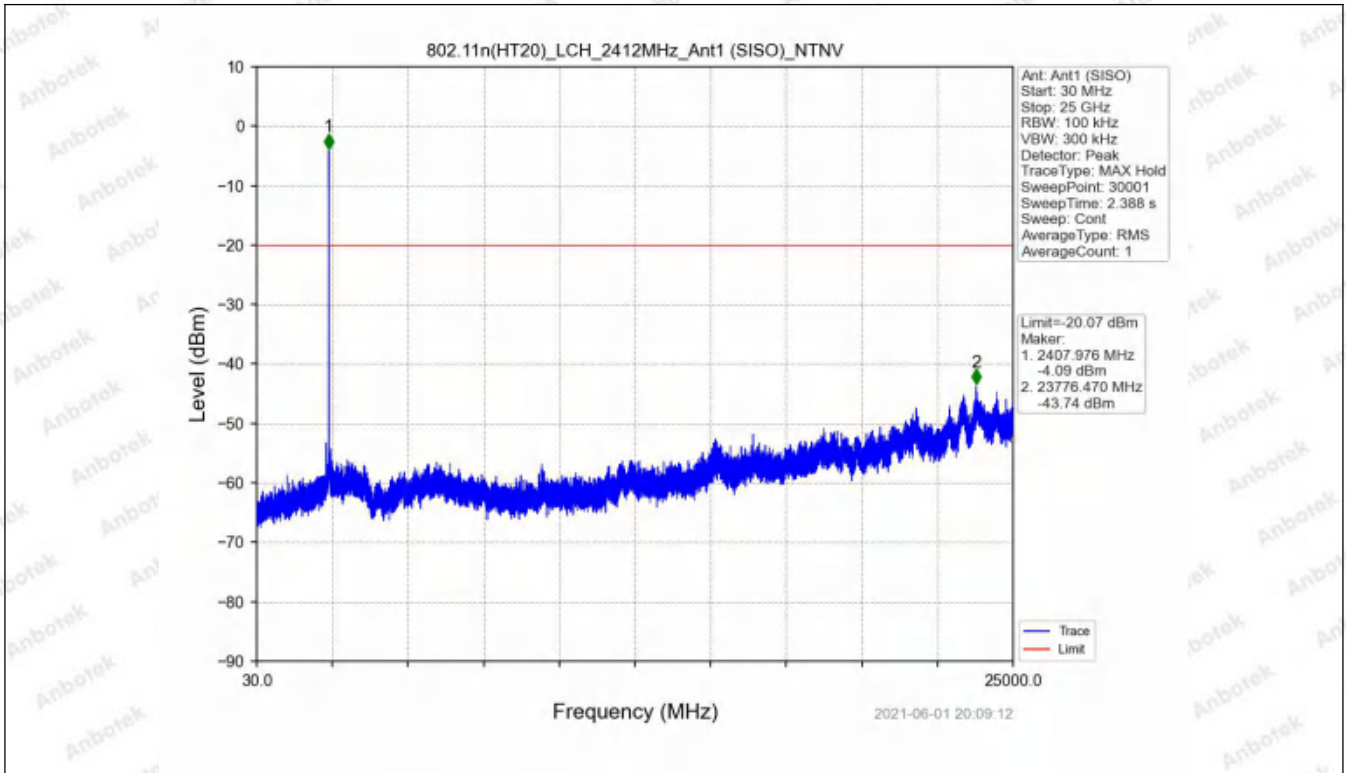
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



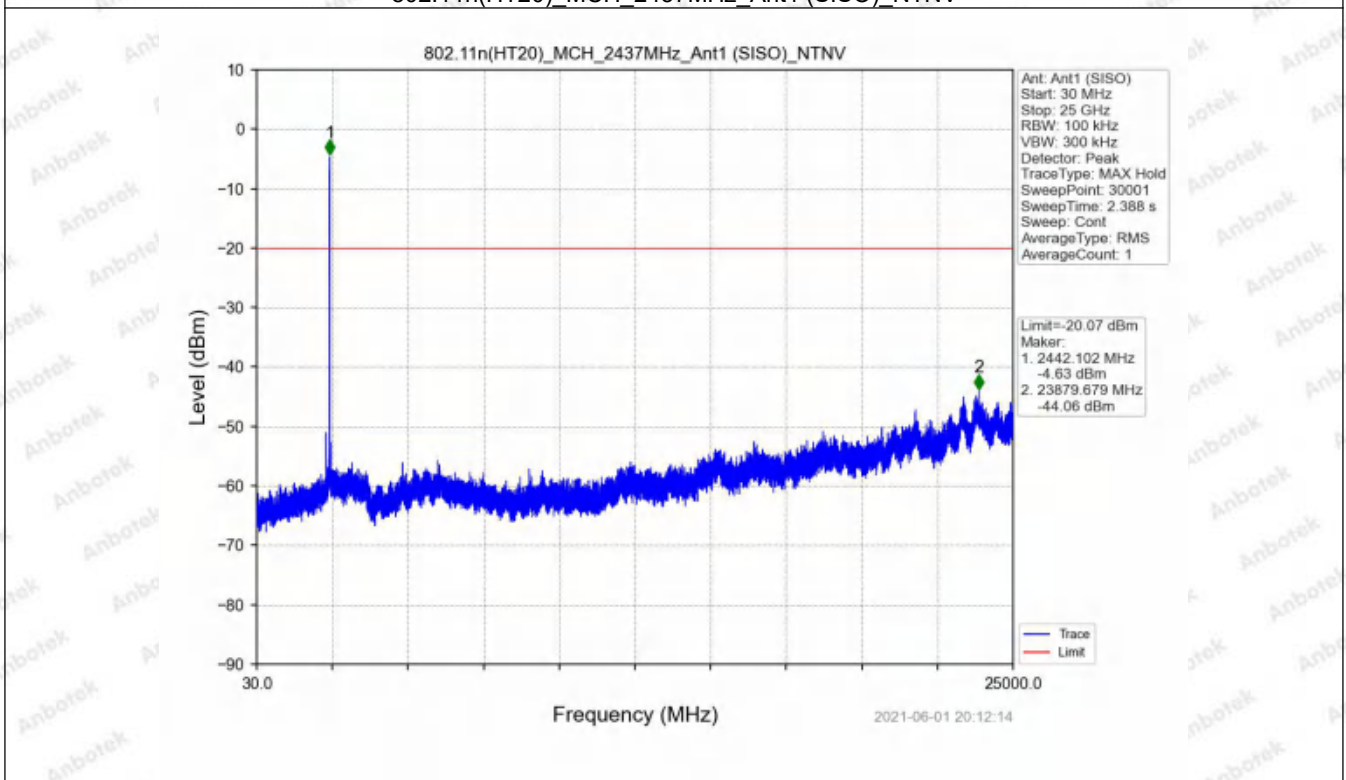
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



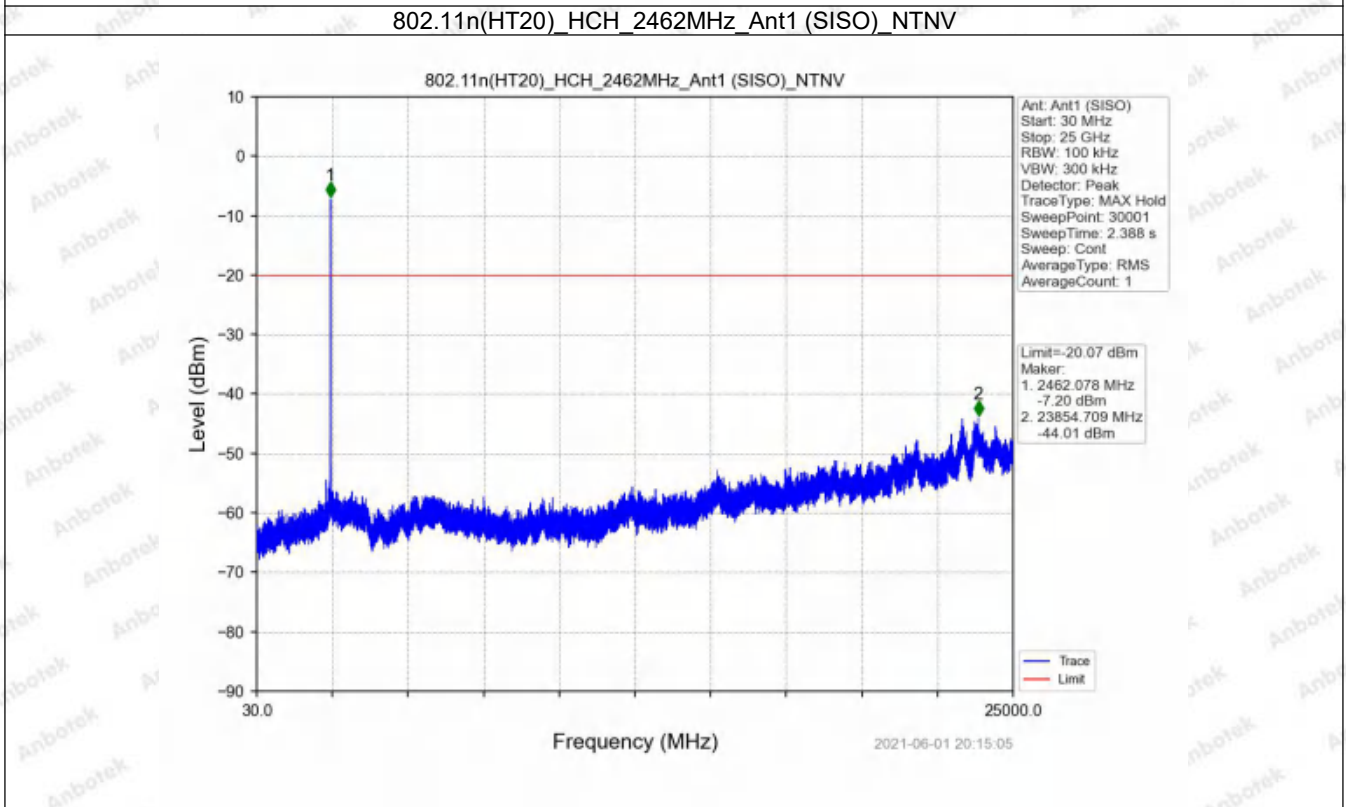
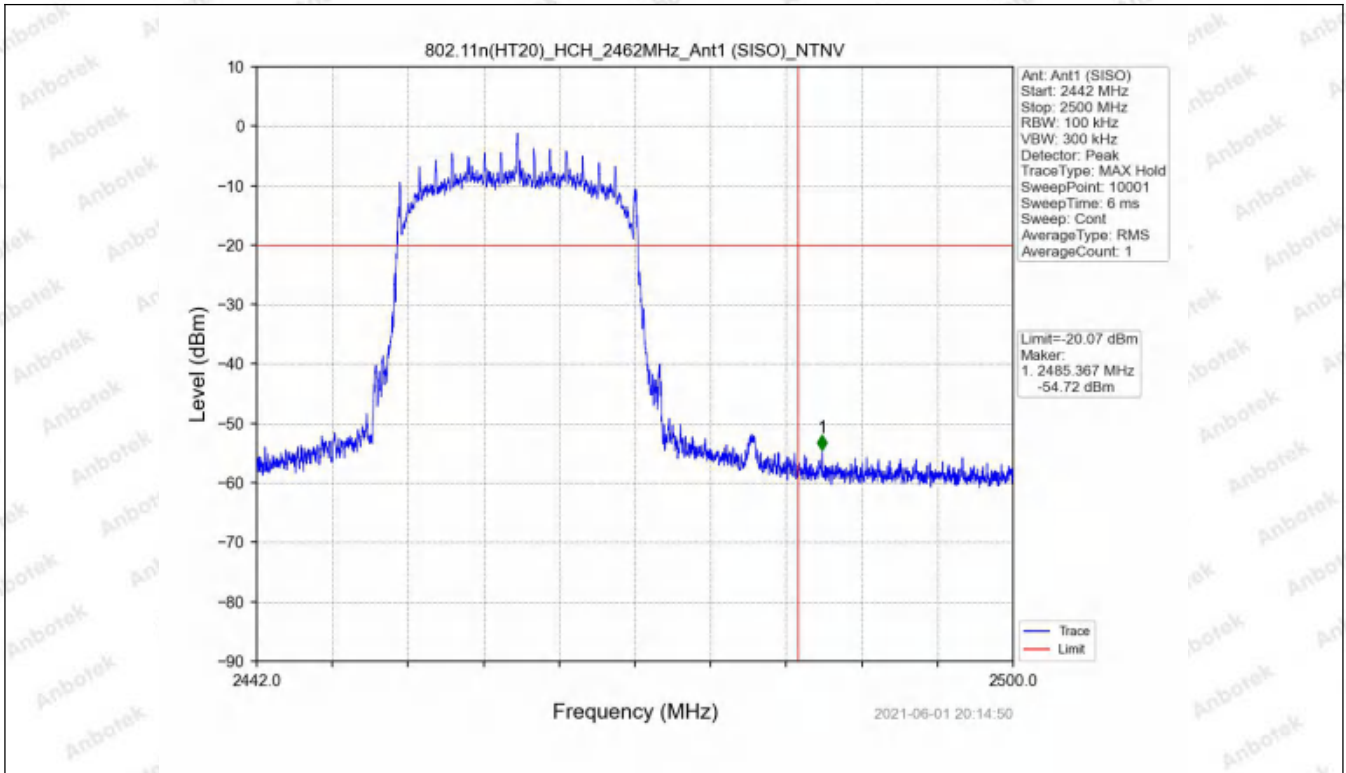
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



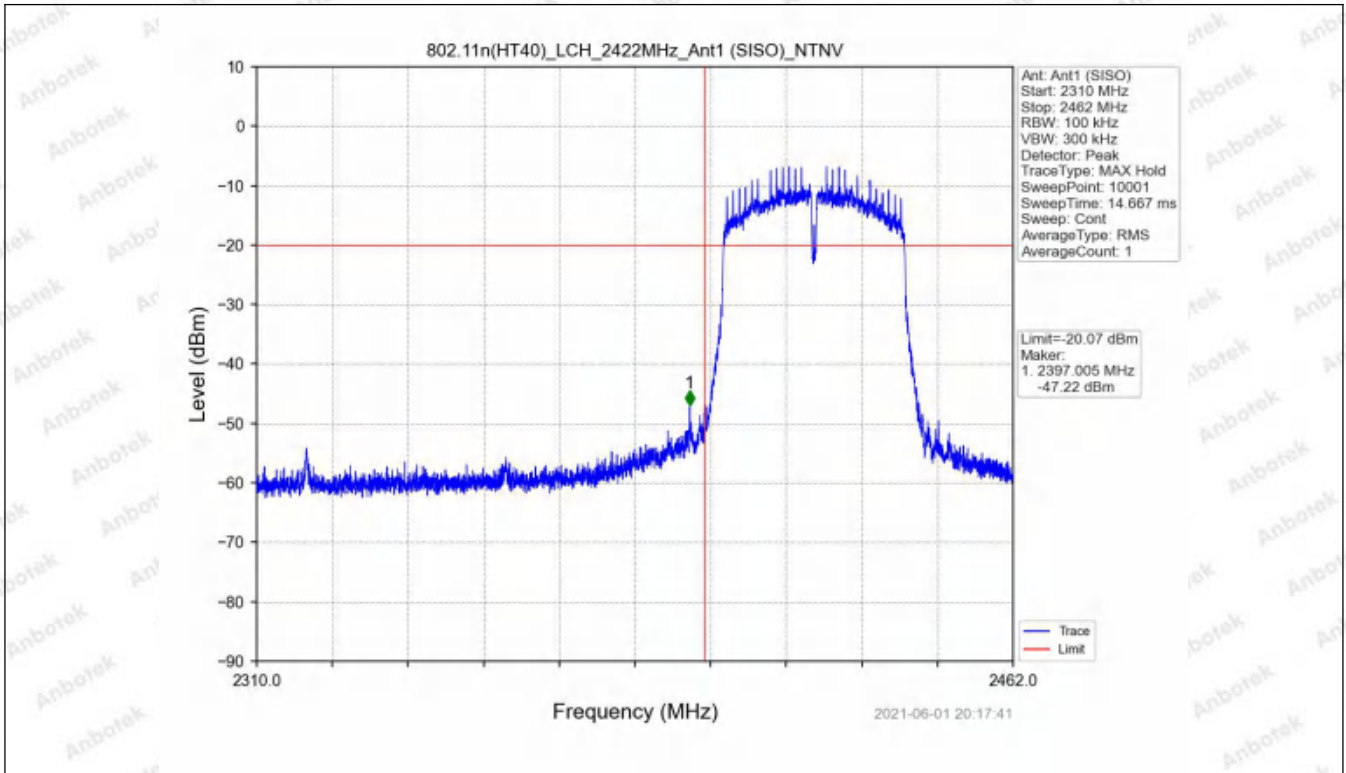
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



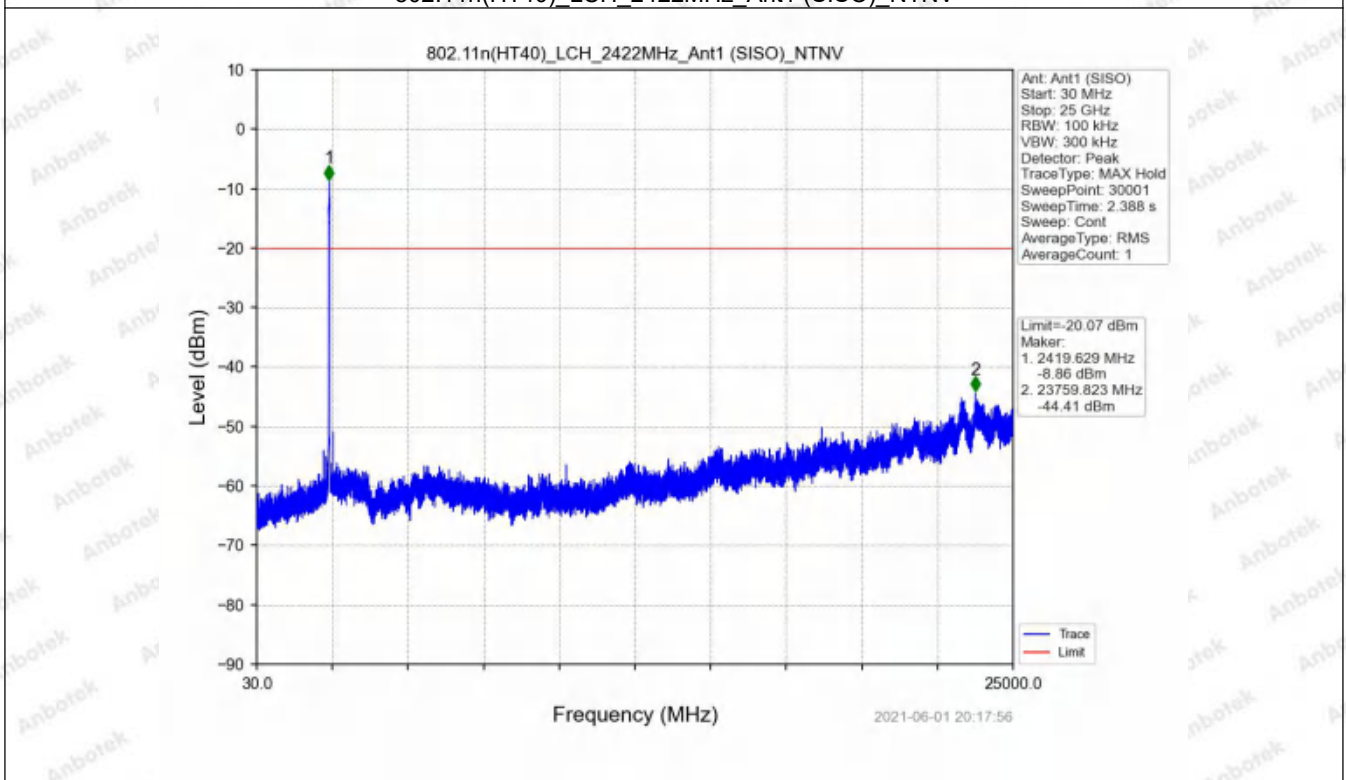
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



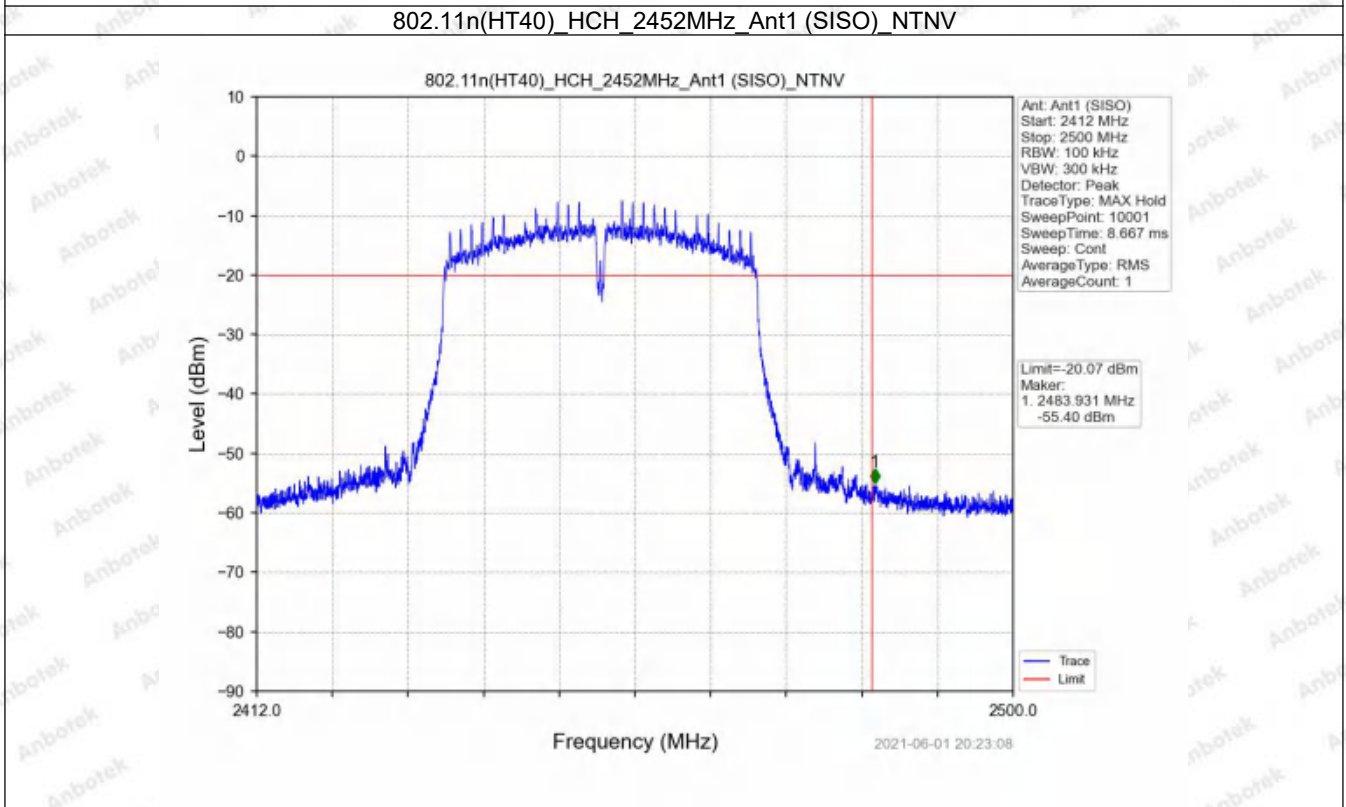
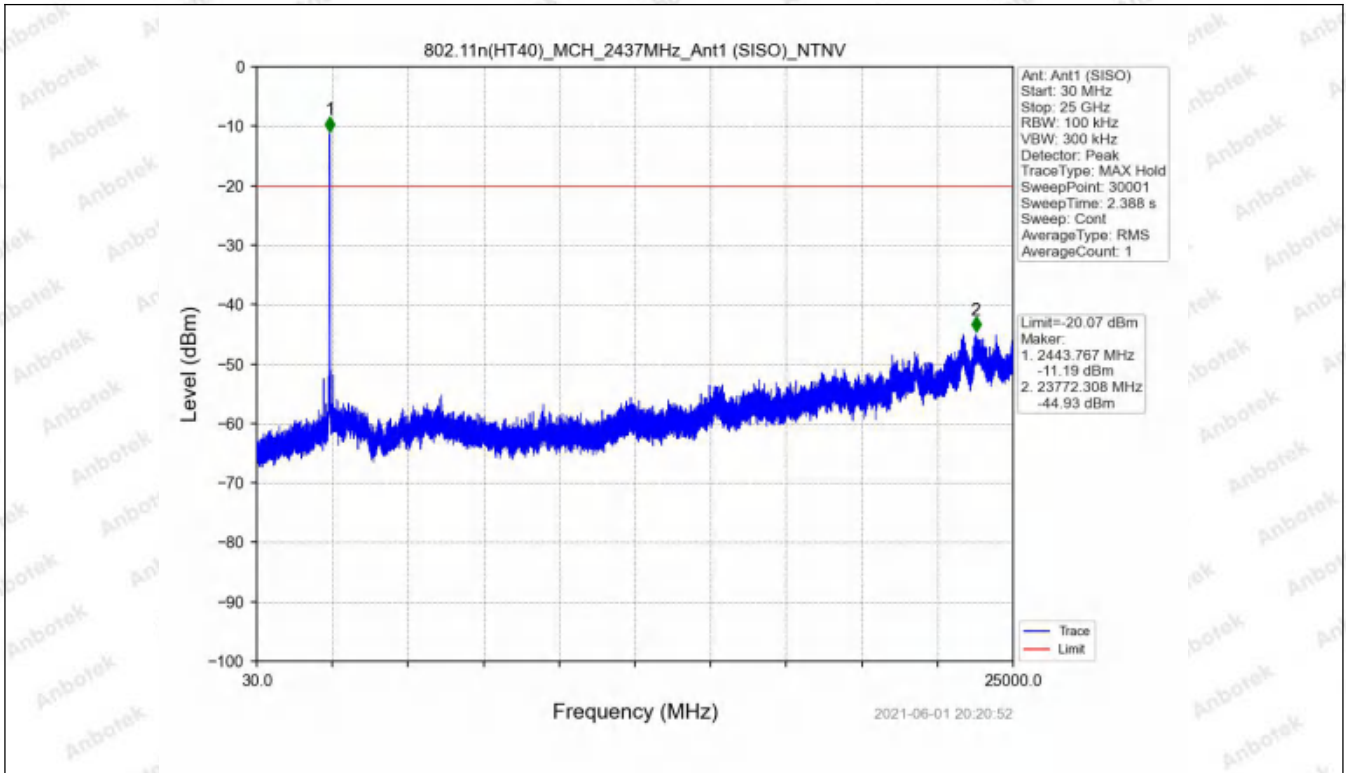
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



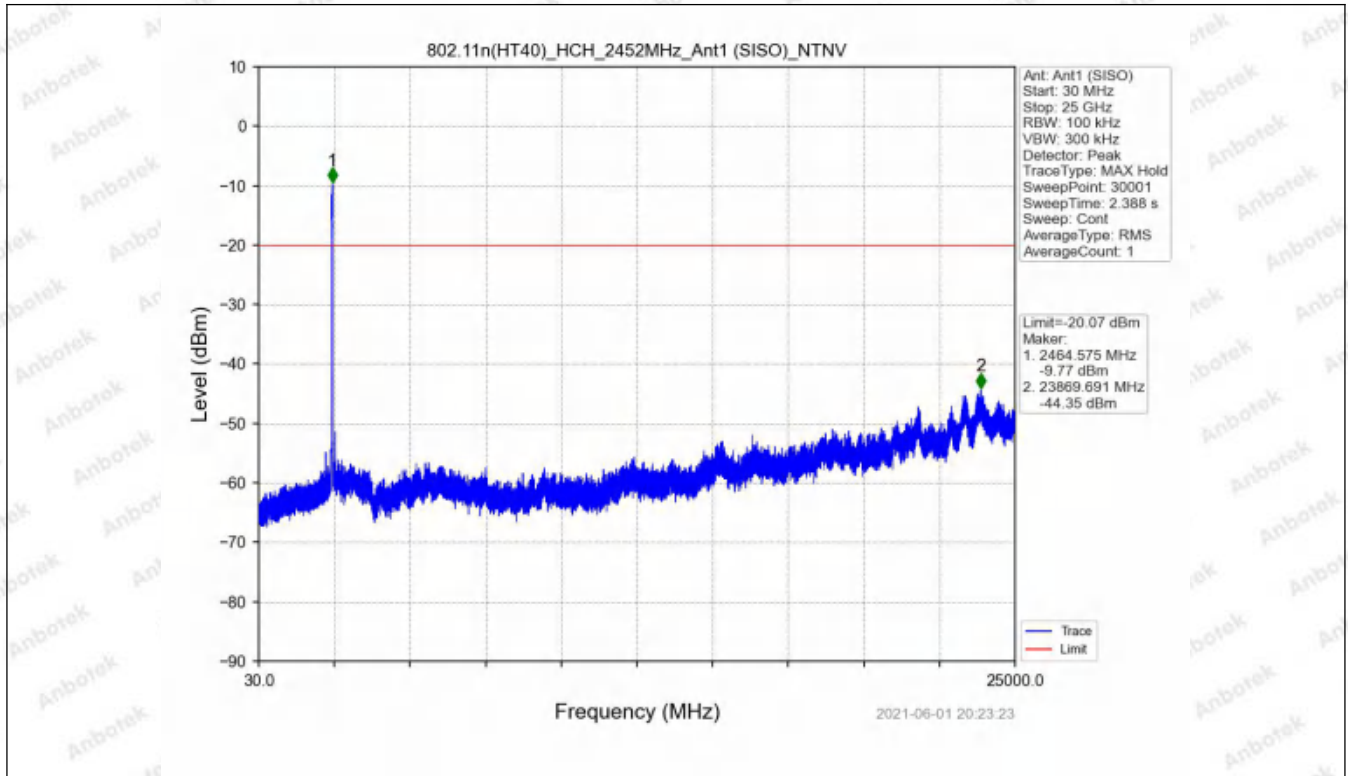
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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