

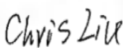
RF Test Report

For

Applicant name: HANGZHOU JFTECH CO.. LTD
Address: Room 408, 4th Floor, Building 12, China iValley Fuchun park, Yinhu Subdistrict, Fuyang District, Hangzhou City, Zhejiang Province, China.
EUT name: Wi-Fi PT Camera
Brand name: N/A
Model number: RF-4W-GS
Series model number: RF-3W-GS, RE-3W-GS, RE-4W-GS
FCC ID: 2BRDXRF-4W-GS

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Report number: BTF250715R00202
Test standards: FCC CFR Title 47 Part 15 Subpart C (§ 15.247)
Test conclusion: Pass
Date of sample receipt: 2025-07-15
Test date: 2025-07-15 to 2025-07-15
Date of issue: 2025-07-25

Prepared by: 
Chris Liu /Project engineer

Approved by: 
Ryan.CJ /EMC manager



Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue date	Revisions content
R_V0	2025-07-25	Original

Note:
Once the revision has been made, then previous versions reports are invalid.

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**

BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.

- **CNAS - Registration No.: CNAS L17568**

BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.

- **A2LA - Registration No.: 6660.01**

BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2 Product Information

2.1 Application Information

Company name:	HANGZHOU JFTECH CO.. LTD
Address:	Room 408, 4th Floor, Building 12, China iValley Fuchun park, Yinhu Subdistrict, Fuyang District, Hangzhou City, Zhejiang Province, China.

2.2 Manufacturer Information

Company name:	HANGZHOU JFTECH CO.. LTD
Address:	Room 408, 4th Floor, Building 12, China iValley Fuchun park, Yinhu Subdistrict, Fuyang District, Hangzhou City, Zhejiang Province, China.

2.3 Factory Information

Company name:	HangzhouJiefengIndustrialTechnologyCo.,Ltd
Address:	Building 5, No.2 Dongqiao Road,Dongzhou Street, Fuyang District, Hangzhou City, Zhejiang Province

2.4 General Description of Equipment under Test (EUT)

EUT name	Wi-Fi PT Camera
Under test model name	RF-4W-GS
Series model name	RF-3W-GS, RE-3W-GS, RE-4W-GS
Description of model name differentiation	All models of PCBA, working principle, appearance (RE-3W-GS&RE-4W-GS/RF-3W-GS & RF-4W-GS only different shell structure limit), color are consistent.
Hardware Version	N/A
Software Version	N/A
Rating:	AC/DC ADAPTER Model: DCT06W050100US-C1 Input: 100-240V~, 50/60Hz 200mA Output: 5.0V $\overline{=}$ 1.0A

2.5 Technical Information

Operation frequency:	2412MHz ~ 2462MHz (for 802.11b/g/n-HT20)
Channel number:	11 (for 802.11b/g/n-HT20)
Modulation technology: (IEEE 802.11b)	DSSS-DBPSK, DQPSK, CCK
Modulation technology: (IEEE 802.11g/802.11n)	OFDM-BPSK, QPSK, 16QAM, 64QAM
Data rate:	802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps 802.11g: 6Mbps, 9Mbps, 12Mbps etc., and up to 54Mbps 802.11n-HT20: 6.5Mbps, 13Mbps, 19.5Mbps etc., and up to 72.2Mbps
Equipment type:	Adaptive equipment
Max. Conducted Power:	14.68 dBm

Antenna type:	FPC Antenna
Antenna gain:	3.0 dBi (declare by Applicant)
Antenna transmit mode:	SISO (1TX, 1RX)

2.6 Channel List

802.11b/g/n(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	--	--

Remark: Channel 1, 6 & 11 have been tested.

3 Test Information

3.1 Test Standards

Identity	Document Title
FCC CFR Title 47 Part 15 Subpart C (§15.247)	Intentional Radiators - Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of The FCC Rules

3.2 Summary of Test

Clauses	Test Items	Result
Part 15.203	Antenna requirement	PASS
47 CFR 15.207(a)	Conducted Emission at AC power line	PASS
47 CFR 15.247(b)(3)	Duty Cycle	PASS
47 CFR 15.247(a)(2)	Occupied Bandwidth	PASS
47 CFR 15.247(b)(3)	Maximum Conducted Output Power	PASS
47 CFR 15.247(e)	Power Spectral Density	PASS
47 CFR 15.247(d)	Emissions in non-restricted frequency bands	PASS
47 CFR 15.247(d)	Band edge emissions (Radiated)	PASS
47 CFR 15.247(d)	Emissions in restricted frequency bands (below 1GHz)	PASS
47 CFR 15.247(d)	Emissions in restricted frequency bands (above 1GHz)	PASS

Remark:

1. Pass: met the requirements.
2. N/A: not applicable.

3.3 Uncertainty of Test

Measurement	Value
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Supply voltages	±3 %
Time	±5 %
Conducted Emission for LISN (9kHz ~ 150kHz)	±2.97 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.45 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.80 dB
Radiated Emission (1GHz ~ 18GHz)	±4.82 dB

The following measurement uncertainty levels have been estimated for tests performed on the EUT as

specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.4 Additions to, deviations, or exclusions from the method

None

3.5 Test Auxiliary Equipment

No.	Description	Manufacturer	Model	Serial Number	Certification
1	N/A	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A	N/A

3.6 Test Equipment List

Radiated test method					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde &Schwarz	ESCI7	101032	2024/10/25	2025/10/24
Signal Analyzer	Rohde & Schwarz	FSQ40	100010	2024/10/25	2025/10/24
Log periodic antenna	Schwarzbeck	VULB 9168	01328	2024/10/28	2025/10/27
Preamplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9744	00246	2024/09/24	2025/09/23
Horn Antenna (1GHz ~18GHz)	Schwarzbeck	BBHA9120D	2597	2024/10/30	2025/10/29
Horn Antenna (15GHz ~ 40GHz)	SCHWARZBECK	BBHA9170	1157	2024/10/24	2025/10/23
Preamplifier (1GHz ~ 40GHz)	TST Pass	LNA10180G45	246	2024/09/24	2025/09/23
Test Software	Frad	EZ_EMG	Version: FA-03A2 RE+		

Conducted Emission Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI3	101422	2024/10/25	2025/10/24
V-LISN	Schwarzbeck	NSLK 8127	01073	2024/10/25	2025/10/24
Coaxial Switcher	Schwarzbeck	CX210	CX210	2024/10/25	2025/10/24
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	2024/10/25	2025/10/24
Test Software	Frad	EZ_EMG	Version: EMC-CON 3A1.1+		

Conducted test method					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020A	MY50410020	2024/10/25	2025/10/24
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2024/10/25	2025/10/24
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2024/10/25	2025/10/24
Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	161997	2024/10/25	2025/10/24

Temperature Humidity Chamber	ZZCKONG	ZZ-K02A	20210928007	2024/10/25	2025/10/24
DC Power Supply	Tongmen	etm-6050c	20211026123	2024/10/25	2025/10/24
RF Control Unit	Techy	TR1029-1	/	2024/10/25	2025/10/24
RF Sensor Unit	Techy	TR1029-2	/	2024/10/25	2025/10/24
Test Software	TST Pass	/	Version: 2.0		

4 Test Configuration

4.1 Environment Condition

Selected Values During Tests		
Temperature	Relative Humidity	Ambient Pressure
Normal: +15°C to +35°C Extreme: -30°C to +50°C	20% to 75%	86 kPa to 106 kPa

4.2 Test mode

(TM1)Transmitting mode:	Keep the EUT in continuously transmitting mode with modulation	
We have verified the construction and function in typical operation. All the test items were carried out with the EUT in above test modes.		
Clauses	Test Items	Test mode
47 CFR 15.207(a)	Conducted Emission at AC power line	TM1
47 CFR 15.247(b)(3)	Duty Cycle	TM1
47 CFR 15.247(a)(2)	Occupied Bandwidth	TM1
47 CFR 15.247(b)(3)	Maximum Conducted Output Power	TM1
47 CFR 15.247(e)	Power Spectral Density	TM1
47 CFR 15.247(d)	Emissions in non-restricted frequency bands	TM1
47 CFR 15.247(d)	Band edge emissions (Radiated)	TM1
47 CFR 15.247(d)	Emissions in restricted frequency bands (below 1GHz)	TM1
47 CFR 15.247(d)	Emissions in restricted frequency bands (above 1GHz)	TM1

4.3 Test Channel of EUT

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/g/n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462

4.4 Test software

Test software:	Version:	Power Class:
AltobeamWLANFacility	V1.0.9	7

4.5 Test procedure

AC Power Line Conducted Emission

The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

1. Level= Read Level+ Cable Loss+ LISN Factor
2. Margin=Level-Limit=Reading+factor-Limit

Radiated test method

1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. Open the test software to control the test antenna and test turntable. Perform the test, recorded the test results.
4. The substitution antenna shall be used to replace the equipment under test.
5. The reference point of the substitution antenna shall coincide with the volume centre of the UUT when its antenna is internal.
6. Set the required test frequency for the signal generator, adjust the emission level, until the spectrum analyzer reading on the receiving link is consistent with the recorded value in step 3, and the recorded signal generator emission level.
7. Final results = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB). This report only reflects the final results.

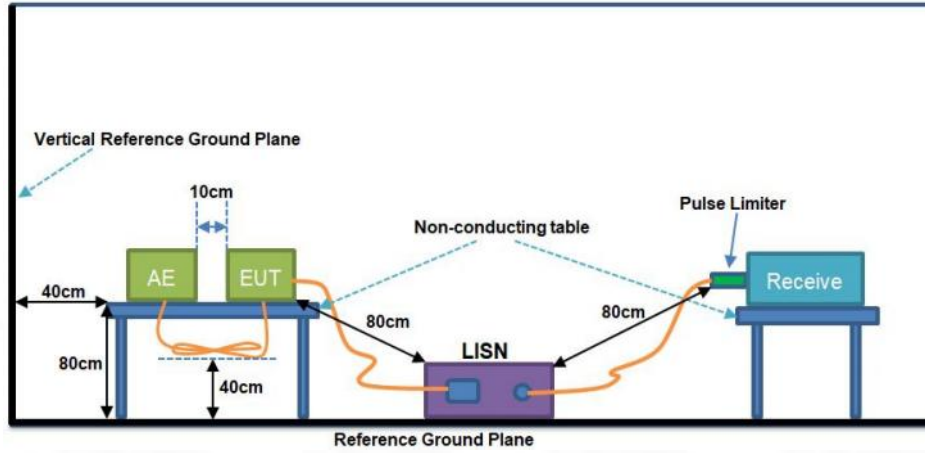
1. Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor
2. Margin=Level-Limit=Reading+factor-Limit

Conducted test method

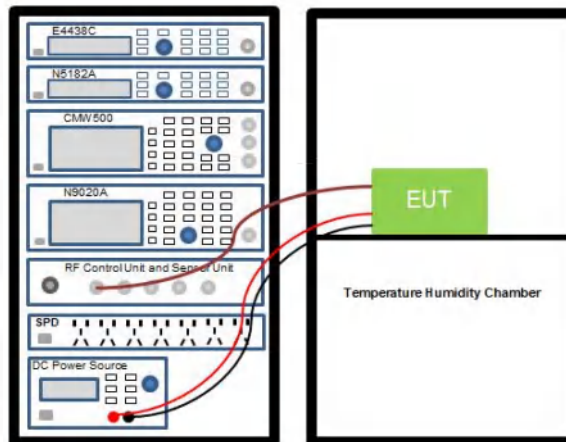
1. The WiFi antenna port of EUT was connected to the test port of the test system through an RF cable.
2. The EUT is keeping in continuous transmission mode and tested in all modulation modes.
3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

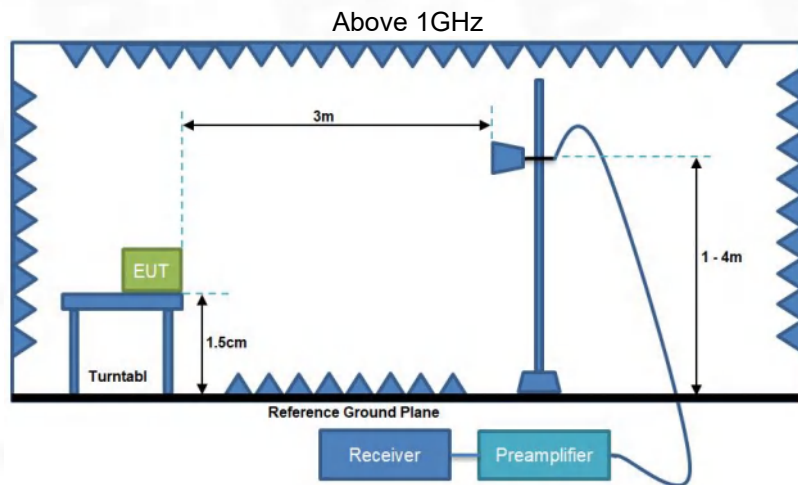
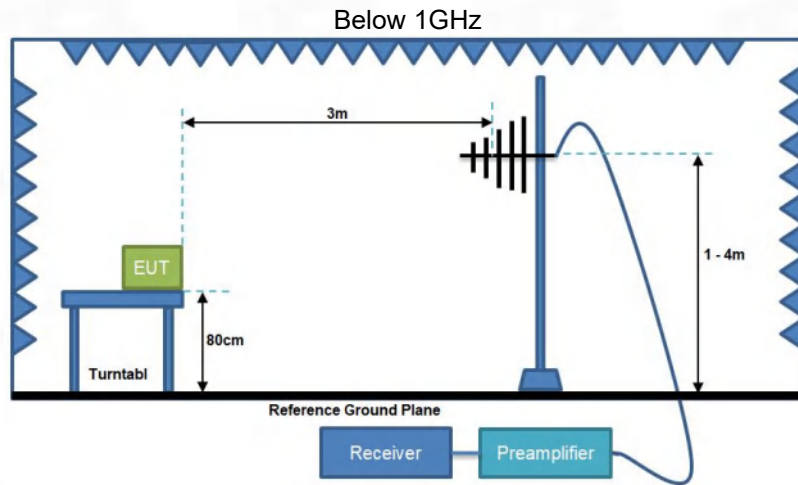
4.6 Test Setup Block

1) Conducted emission measurement:



2) Conducted test method:



3) Radiated test method:

5 Technical requirements specification

5.1 Antenna Requirement

§15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

§15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:	The Bluetooth antenna is an FPC antenna which permanently attached, and the best case gain of the antenna is 3.0 dBi. See product internal photos for details.
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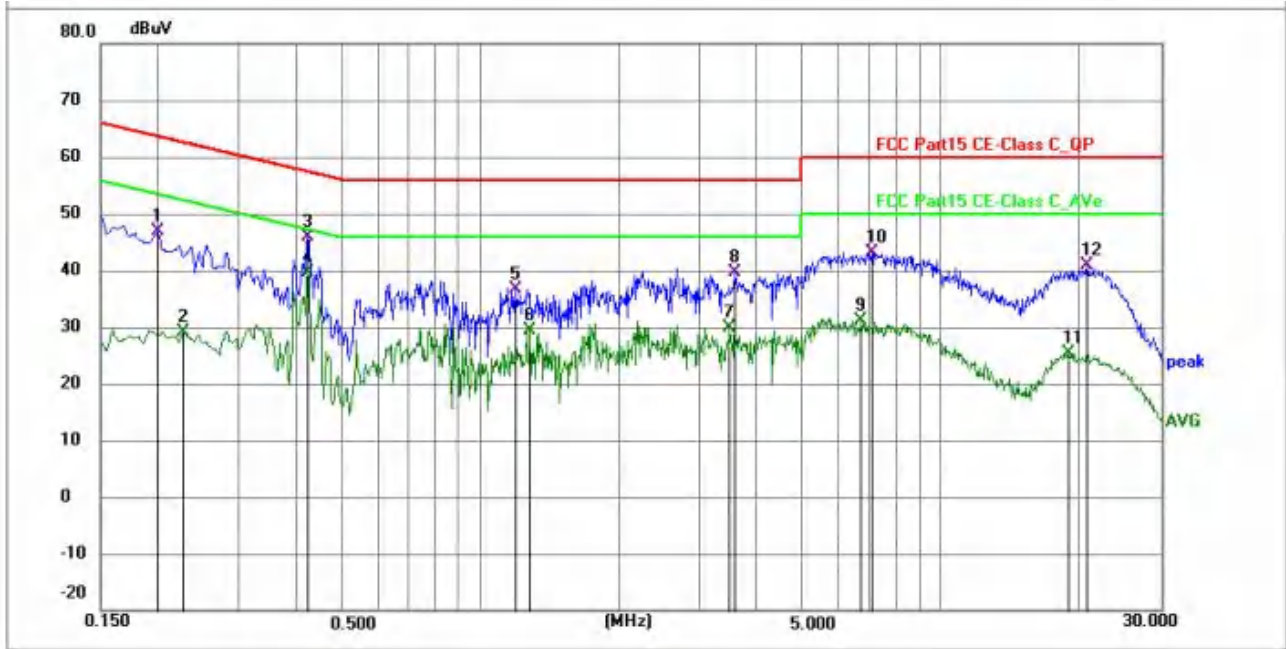
5.2 AC Power Line Conducted Emission

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Method:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Setup:	See section 4.6 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos		
Operating Environment:			
Temperature:	22.5°C		
Humidity:	46%RH		
Atmospheric Pressure:	1010 hpa		
Test voltage:	AC 120V 60Hz		

5.2.1 Test Data:

Remark: The report only reflects the test data of worst mode.

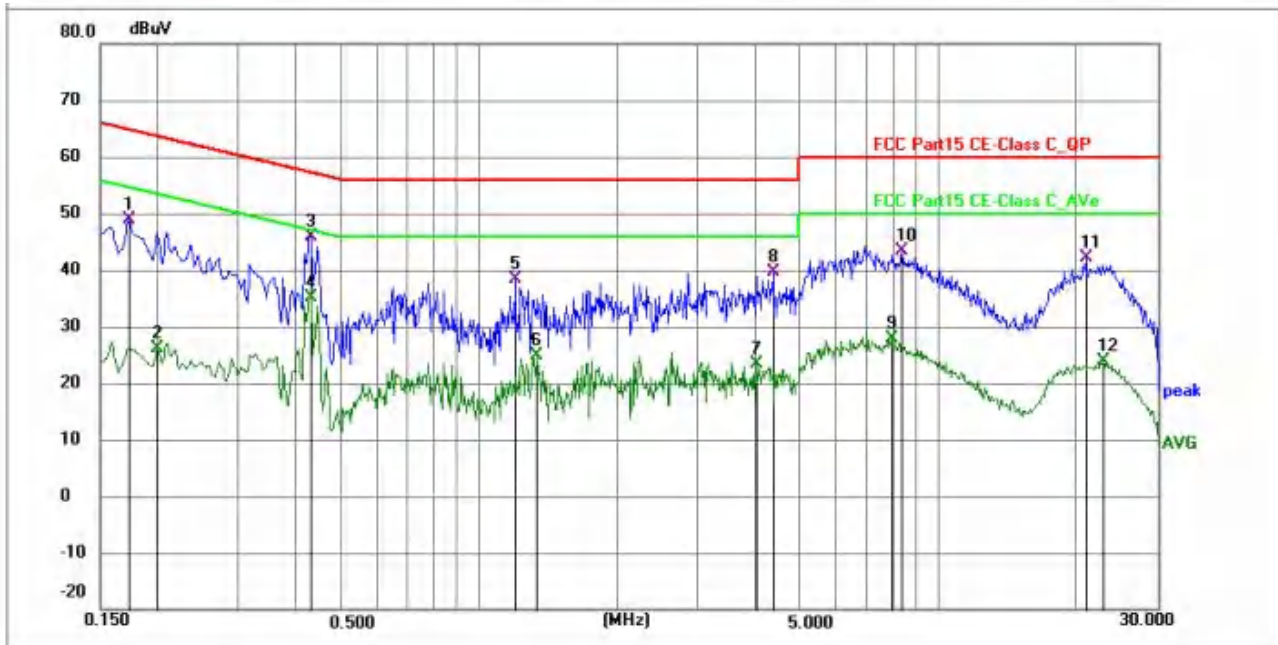
Test phase: L phase



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1995	36.14	10.66	46.80	63.63	-16.83	QP	P	
2	0.2265	18.48	10.66	29.14	52.58	-23.44	AVG	P	
3	0.4200	35.28	10.67	45.95	57.45	-11.50	QP	P	
4 *	0.4200	29.02	10.67	39.69	47.45	-7.76	AVG	P	
5	1.1940	25.77	10.82	36.59	56.00	-19.41	QP	P	
6	1.2882	18.63	10.80	29.43	46.00	-16.57	AVG	P	
7	3.4800	19.23	10.70	29.93	46.00	-16.07	AVG	P	
8	3.5834	28.81	10.72	39.53	56.00	-16.47	QP	P	
9	6.7200	19.62	11.42	31.04	50.00	-18.96	AVG	P	
10	7.0890	31.68	11.46	43.14	60.00	-16.86	QP	P	
11	18.9960	14.32	11.15	25.47	50.00	-24.53	AVG	P	
12	20.7150	29.66	11.15	40.81	60.00	-19.19	QP	P	

Note: Margin=Level-Limit=Reading+factor-Limit

Test phase: N phase



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1723	38.44	10.55	48.99	64.85	-15.86	QP	P	
2	0.1995	15.56	10.56	26.12	53.63	-27.51	AVG	P	
3 *	0.4290	35.08	10.72	45.80	57.27	-11.47	QP	P	
4	0.4290	24.39	10.72	35.11	47.27	-12.16	AVG	P	
5	1.2030	27.39	10.88	38.27	56.00	-17.73	QP	P	
6	1.3425	13.95	10.89	24.84	46.00	-21.16	AVG	P	
7	4.0155	12.47	10.88	23.35	46.00	-22.65	AVG	P	
8	4.3800	28.56	10.96	39.52	56.00	-16.48	QP	P	
9	7.9170	16.52	11.36	27.88	50.00	-22.12	AVG	P	
10	8.3310	32.08	11.29	43.37	60.00	-16.63	QP	P	
11	20.9355	30.95	11.26	42.21	60.00	-17.79	QP	P	
12	22.9155	12.72	11.28	24.00	50.00	-26.00	AVG	P	

Note: Margin=Level-Limit=Reading+factor-Limit

5.3 Emissions in Restricted Frequency Bands

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Method:	Radiated emissions tests		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.			
Procedure:	ANSI C63.10-2020 section 6.10.5.2		
Test Setup:	See section 4.6 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos		
Operating Environment:			
Temperature:	22.5°C		
Humidity:	46%RH		
Atmospheric Pressure:	1010 hpa		
Test voltage:	DC 5V From Adapter with AC 120V/60Hz		

5.3.1 Test Data:

Remark: The report only reflects the test data of worst mode.

Test Channel: Lowest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Marging (dB)	Detector	Result
2310.00	50.61	3.85	54.46	74.00	-19.54	Peak	Pass
2310.00	40.24	3.85	44.09	54.00	-9.91	AVG	Pass
2390.00	51.46	3.91	55.37	74.00	-18.63	Peak	Pass
2390.00	41.4	3.91	45.31	54.00	-8.69	AVG	Pass
Test Channel: Lowest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Marging (dB)	Detector	Result
2310.00	50.03	3.85	53.88	74.00	-20.12	Peak	Pass
2310.00	39.41	3.85	43.26	54.00	-10.74	AVG	Pass
2390.00	50.65	3.91	54.56	74.00	-19.44	Peak	Pass
2390.00	40.54	3.91	44.45	54.00	-9.55	AVG	Pass

Test Channel: Highest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2483.50	50.14	3.99	54.13	74.00	-19.87	Peak	Pass
2483.50	39.36	3.99	43.35	54.00	-10.65	AVG	Pass
2500.00	51.15	4.00	55.15	74.00	-18.85	Peak	Pass
2500.00	40.65	4.00	44.65	54.00	-9.35	AVG	Pass
Test Channel: Highest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2483.50	50.54	3.99	54.53	74.00	-19.47	Peak	Pass
2483.50	40.24	3.99	44.23	54.00	-9.77	AVG	Pass
2500.00	50.92	4.00	54.92	74.00	-19.08	Peak	Pass
2500.00	40.97	4.00	44.97	54.00	-9.03	AVG	Pass

Note:Margin=Level-Limit=Reading+factor-Limit

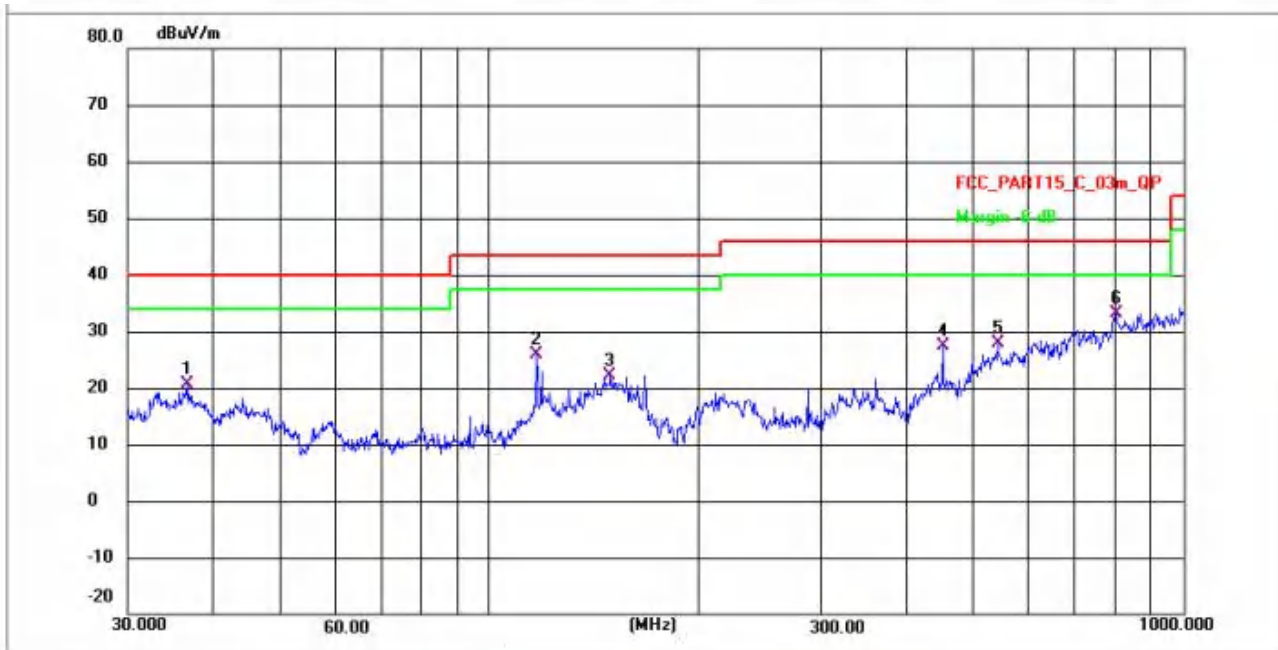
5.4 Emissions in Non-restricted Frequency Bands(below 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Method:	Radiated emissions tests		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.		
Procedure:	ANSI C63.10-2020 section 6.6.4		
Test Setup:	See section 4.6 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos		
Operating Environment:			
Temperature:	22.5°C		
Humidity:	46%RH		
Atmospheric Pressure:	1010 hpa		
Test voltage:	DC 5V From Adapter with AC 120V/60Hz		

5.4.1 Test Data:

Remark: The report only reflects the test data of worst mode.

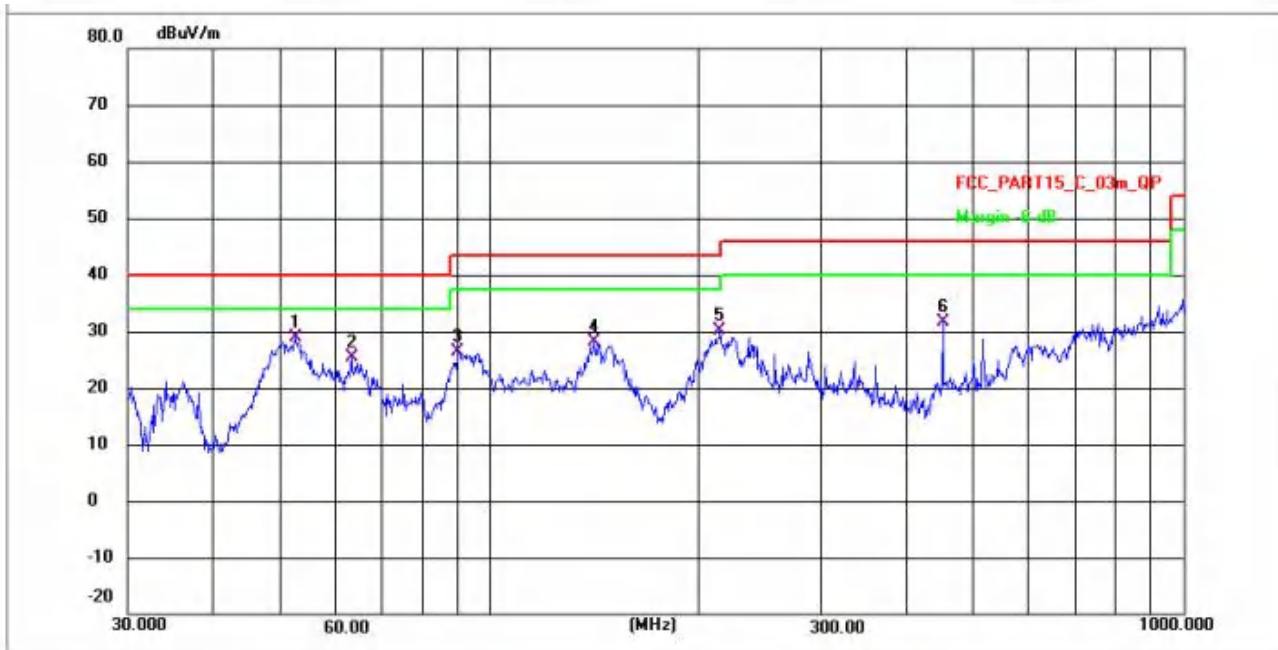
Test antenna polarization: Horizontal(30 MHz to 1 GHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	36.7017	30.17	-9.65	20.52	40.00	-19.48	QP	P
2	116.7445	48.10	-22.32	25.78	43.50	-17.72	QP	P
3	149.2238	44.21	-22.02	22.19	43.50	-21.31	QP	P
4	450.3446	46.79	-19.40	27.39	46.00	-18.61	QP	P
5	540.4240	46.48	-18.72	27.76	46.00	-18.24	QP	P
6 *	800.3817	50.86	-17.85	33.01	46.00	-12.99	QP	P

Note:Margin=Level-Limit=Reading+factor-Limit

Test antenna polarization: Vertical (30 MHz to 1 GHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	52.3911	38.36	-9.53	28.83	40.00	-11.17	QP	P
2	63.0915	34.69	-9.42	25.27	40.00	-14.73	QP	P
3	90.0622	49.10	-22.63	26.47	43.50	-17.03	QP	P
4	141.5774	50.23	-22.09	28.14	43.50	-15.36	QP	P
5	214.5141	51.41	-21.39	30.02	43.50	-13.48	QP	P
6	450.3446	51.03	-19.40	31.63	46.00	-14.37	QP	P

Note: Margin = Level - Limit = Reading + factor - Limit

5.5 Emissions in Non-restricted Frequency Bands(above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Method:	Radiated emissions tests		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.		
Procedure:	ANSI C63.10-2020 section 6.6.4		
Test Setup:	See section 4.6 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos		
Operating Environment:			
Temperature:	22.5°C		
Humidity:	46%RH		
Atmospheric Pressure:	1010 hpa		
Test voltage:	DC 5V From Adapter with AC 120V/60Hz		

5.5.1 Test Data:

Remark: The report only reflects the test data of worst mode.

Test Channel: Lowest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Marging (dB)	Detector	Result
4824.00	77.63	-48.87	28.76	74.00	-45.24	Peak	Pass
4824.00	66.73	-48.87	17.86	54.00	-36.14	AVG	Pass
7236.00	74.53	-46.99	27.54	74.00	-46.46	Peak	Pass
7236.00	64.24	-46.99	17.25	54.00	-36.75	AVG	Pass
Test Channel: Lowest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Marging (dB)	Detector	Result
4824.00	78.99	-48.87	30.12	74.00	-43.88	Peak	Pass
4824.00	68.06	-48.87	19.19	54.00	-34.81	AVG	Pass
7236.00	75.98	-46.99	28.99	74.00	-45.01	Peak	Pass
7236.00	66.11	-46.99	19.12	54.00	-34.88	AVG	Pass

Test Channel: Middle channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Marging (dB)	Detector	Result
4874.00	78.99	-48.84	30.15	74.00	-43.85	Peak	Pass
4874.00	69.36	-48.84	20.52	54.00	-33.48	AVG	Pass
7311.00	74.84	-46.9	27.94	74.00	-46.06	Peak	Pass
7311.00	65.17	-46.9	18.27	54.00	-35.73	AVG	Pass
Test Channel: Middle channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Marging (dB)	Detector	Result
4874.00	78.62	-48.84	29.78	74.00	-44.22	Peak	Pass
4874.00	68.68	-48.84	19.84	54.00	-34.16	AVG	Pass
7311.00	75.19	-46.9	28.29	74.00	-45.71	Peak	Pass
7311.00	65.08	-46.9	18.18	54.00	-35.82	AVG	Pass
Test Channel: Highest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Marging (dB)	Detector	Result
4924.00	79.15	-48.81	30.34	74.00	-43.66	Peak	Pass
4924.00	69.09	-48.81	20.28	54.00	-33.72	AVG	Pass
7386.00	75.63	-46.81	28.82	74.00	-45.18	Peak	Pass
7386.00	66.01	-46.81	19.2	54.00	-34.8	AVG	Pass
Test Channel: Highest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Marging (dB)	Detector	Result
4924.00	77.63	-48.81	28.82	74.00	-45.18	Peak	Pass
4924.00	67.69	-48.81	18.88	54.00	-35.12	AVG	Pass
7386.00	74.84	-46.81	28.03	74.00	-45.97	Peak	Pass
7386.00	65.18	-46.81	18.37	54.00	-35.63	AVG	Pass

Note:Margin=Level-Limit=Reading+factor-Limit

5.6 Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x , and maximum-power transmission duration, T , are required for each tested mode of operation.
Test Method:	ANSI C63.10-2020
Test Limit:	No limits, only for report use.
Procedure:	The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal: 1) Set the center frequency of the instrument to the center frequency of the transmission. 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value. 3) Set $VBW \geq RBW$. Set detector = peak or average. 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7\mu s$.)
Test Setup:	See section 4.6 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos
Operating Environment:	
Temperature:	22.5°C
Humidity:	46%RH
Atmospheric Pressure:	1010 hpa
Test voltage:	DC 5V From Adapter with AC 120V/60Hz

5.6.1 Test Data:

Please Refer to Appendix-2.4G WIFI for Details

5.7 Occupied Bandwidth

Test Requirement:	Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	DTS bandwidth
Test Limit:	Section (a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Procedure:	<p>a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Step a) through step c) might require iteration to adjust within the specified range.</p> <p>e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.</p> <p>f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.</p> <p>g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.</p> <p>h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).</p>
Test Setup:	See section 4.6 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos
Operating Environment:	
Temperature:	22.5°C
Humidity:	46%RH
Atmospheric Pressure:	1010 hpa
Test voltage:	DC 5V From Adapter with AC 120V/60Hz

5.7.1 Test Data:

Please Refer to Appendix-2.4G WIFI for Details

5.8 Maximum Conducted Output Power

Test Requirement:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020
Test Limit:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Procedure:	ANSI C63.10-2020, section 11.9.2 Maximum conducted (average)output power
Test Setup:	See section 4.6 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos
Operating Environment:	
Temperature:	22.5°C
Humidity:	46%RH
Atmospheric Pressure:	1010 hpa
Test voltage:	DC 5V From Adapter with AC 120V/60Hz

5.8.1 Test Data:

Please Refer to Appendix-2.4G WIFI for Details

5.9 Power Spectral Density

Test Requirement:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	Maximum power spectral density level in the fundamental emission
Test Limit:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Setup:	See section 4.6 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos
Operating Environment:	
Temperature:	22.5°C
Humidity:	46%RH
Atmospheric Pressure:	1010 hpa
Test voltage:	DC 5V From Adapter with AC 120V/60Hz

5.9.1 Test Data:

Please Refer to Appendix-2.4G WIFI for Details

5.10 Emissions in non-restricted frequency bands

Test Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	Emissions in nonrestricted frequency bands
Test Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3
Test Setup:	See section 4.6 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos
Operating Environment:	
Temperature:	22.5°C
Humidity:	46%RH
Atmospheric Pressure:	1010 hpa
Test voltage:	DC 5V From Adapter with AC 120V/60Hz

5.10.1 Test Data:

Please Refer to Appendix-2.4G WIFI for Details

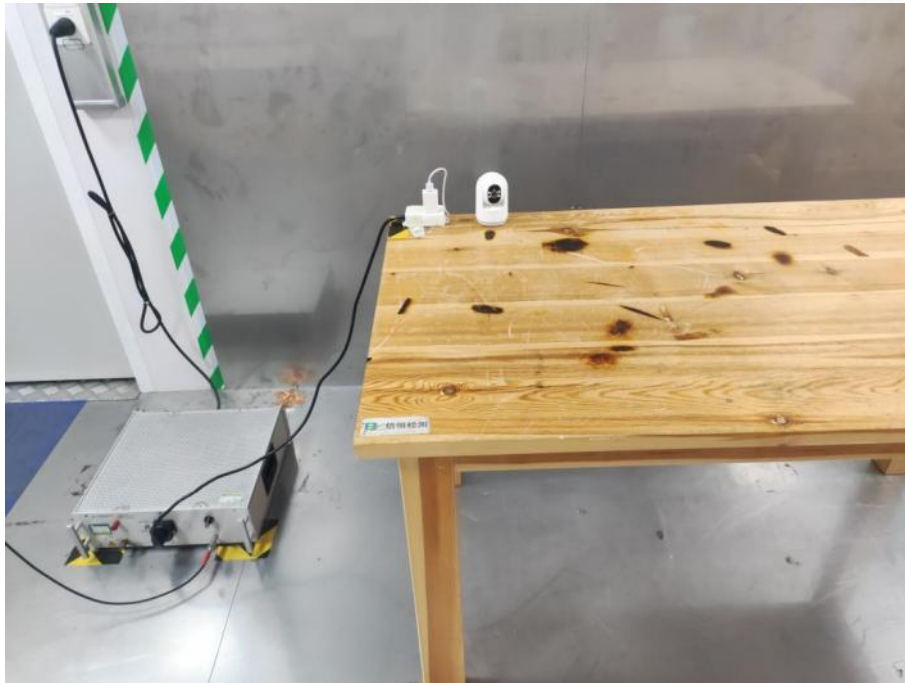
6 Test Setup Photos

Emissions in Non-restricted Frequency Bands(30 MHz - 1 GHz)



**Emissions in Restricted Frequency Bands
Emissions in Non-restricted Frequency Bands(Above 1 GHz)**



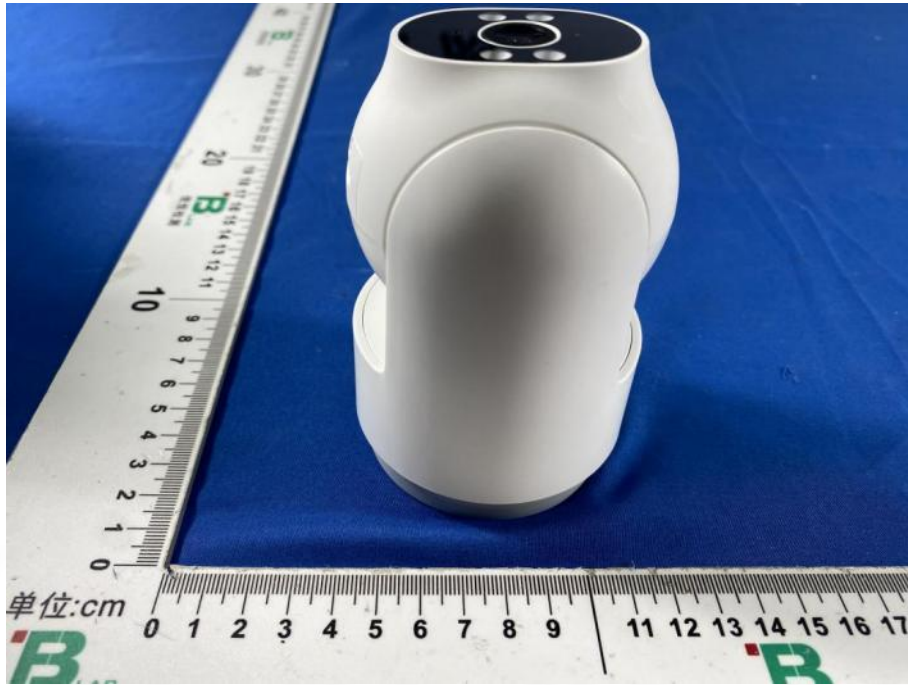
AC Power Line Conducted Emission

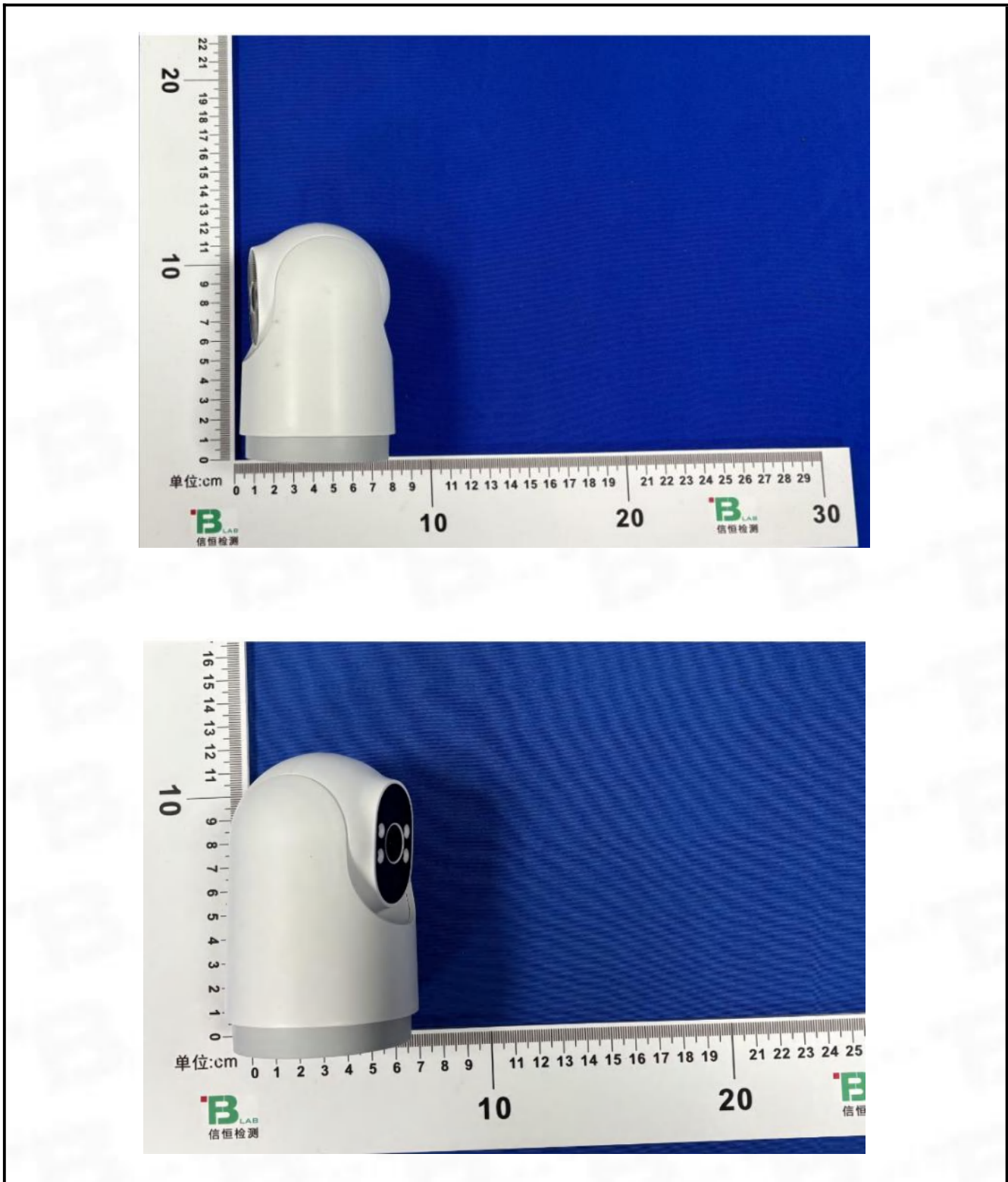
7 EUT Constructional Details (EUT Photos)

Appendix II External Photos







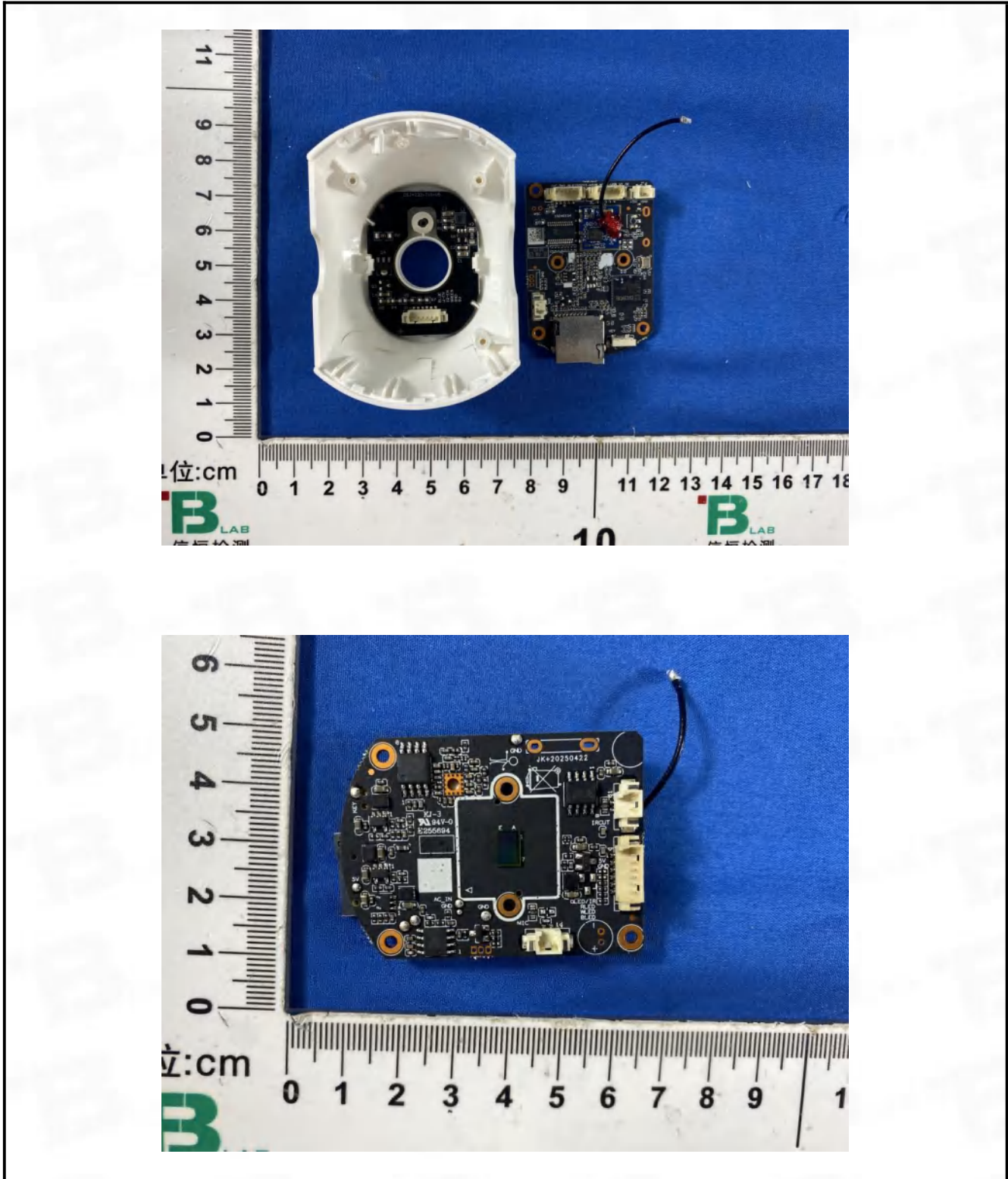




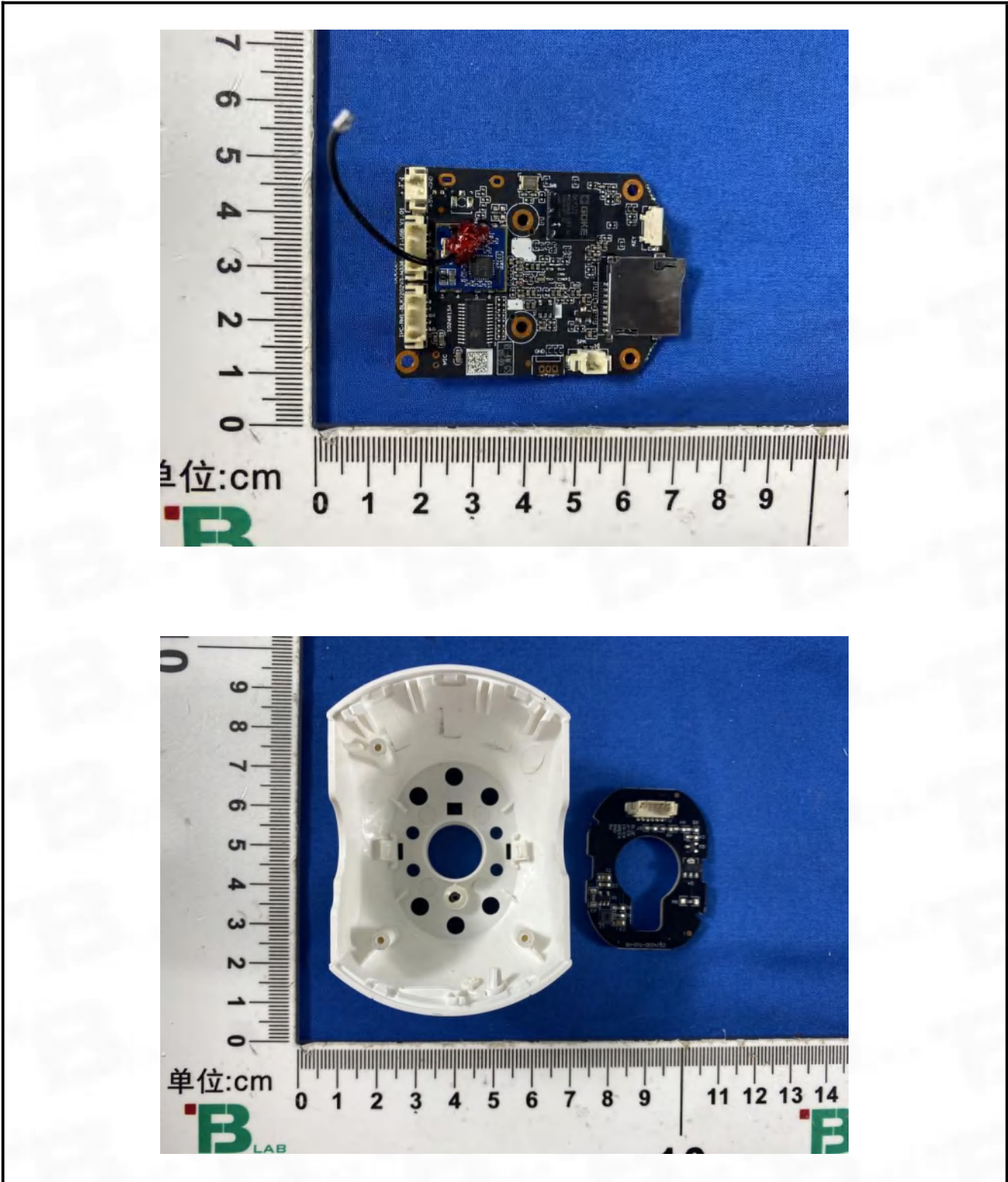


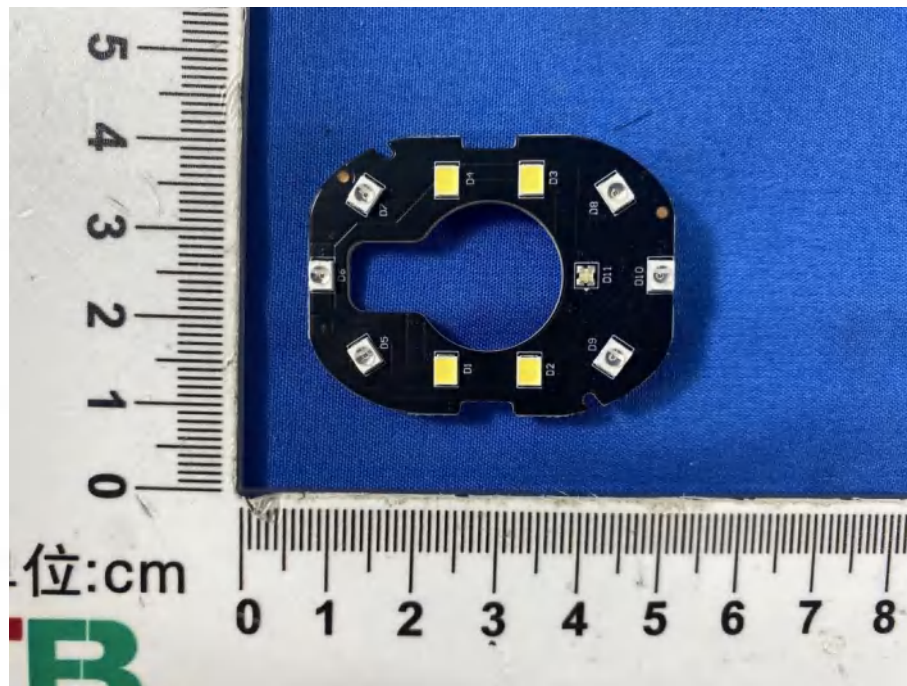
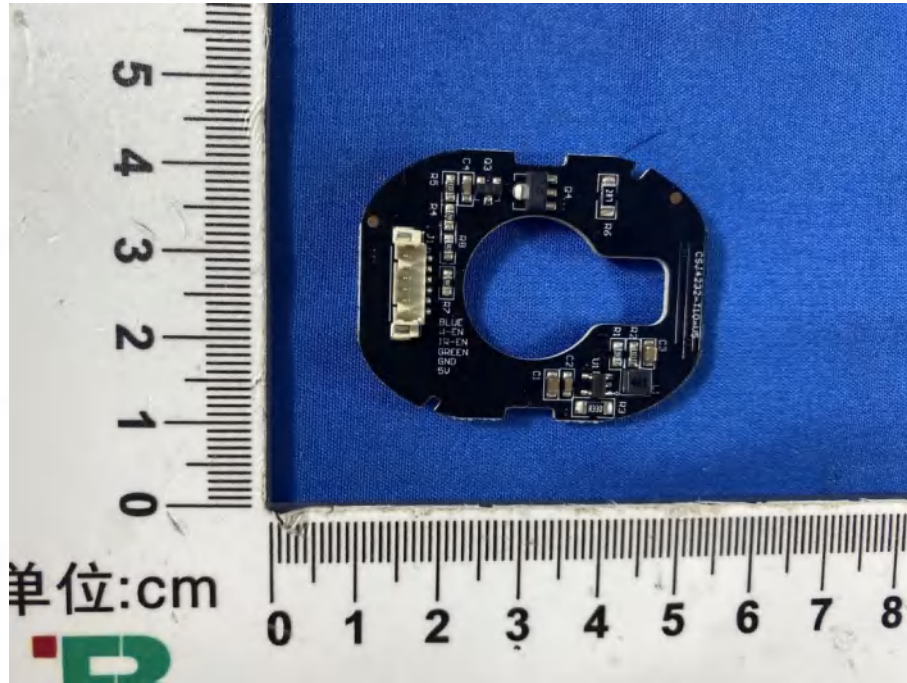


Appendix III Internal Photos









Appendix - 2.4G WIFI

1. Duty Cycle

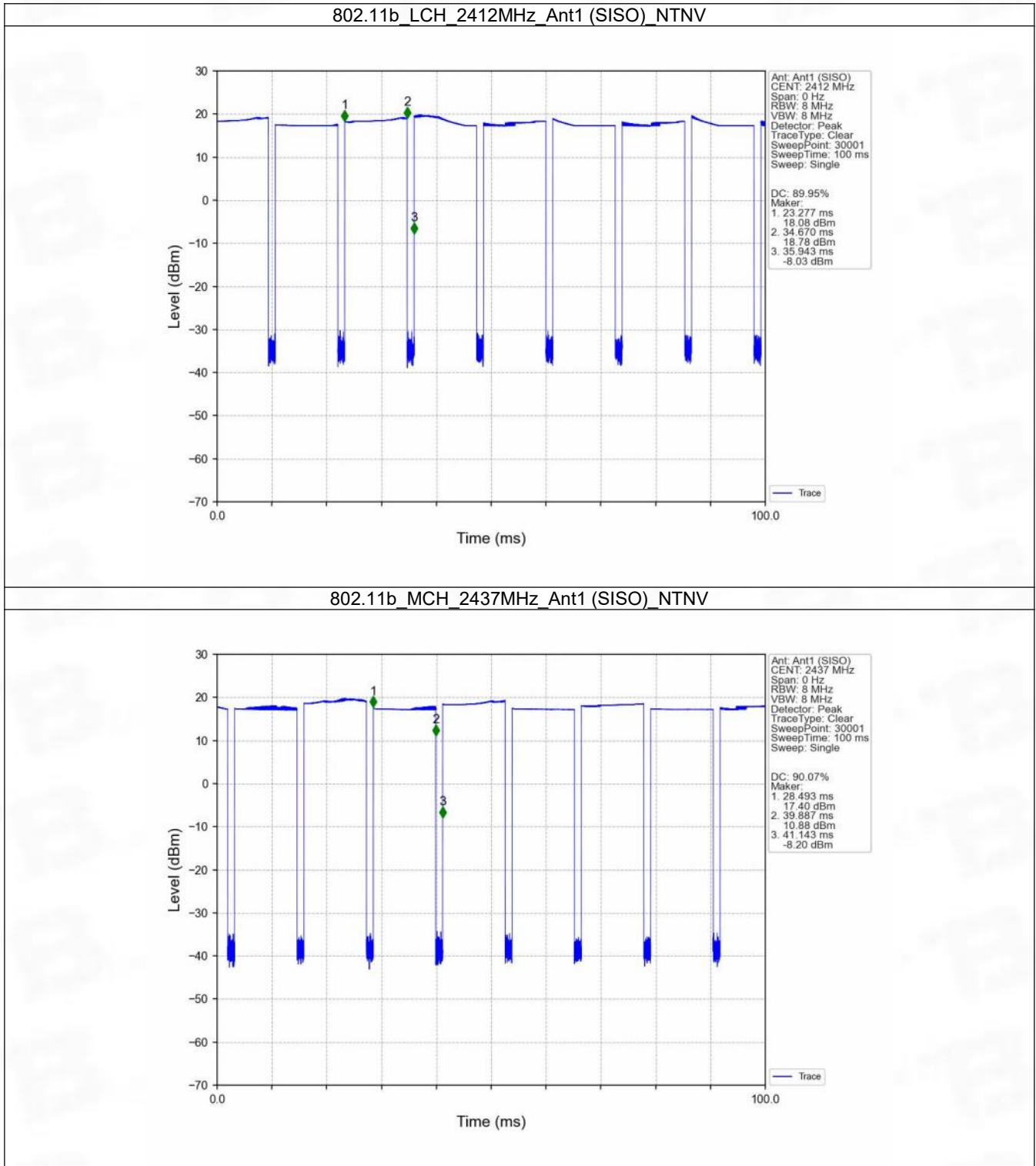
1.1 Test Result

1.1.1 Ant1

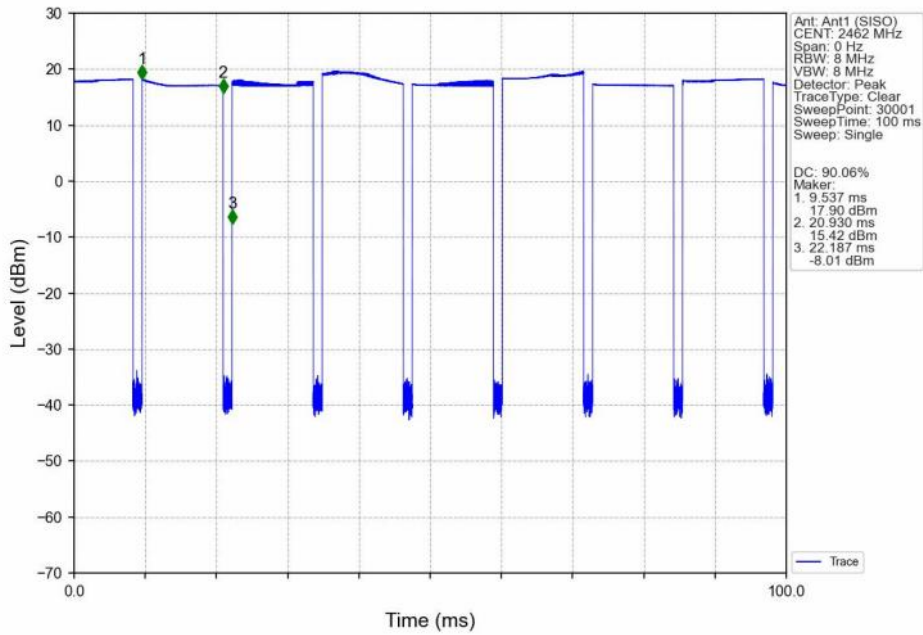
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	11.393	12.666	89.95	0.46	0.14
		2437	11.394	12.650	90.07	0.45	0.03
		2462	11.393	12.650	90.06	0.45	0.03
802.11g	SISO	2412	1.894	2.115	89.55	0.48	0.06
		2437	1.894	2.114	89.59	0.48	0.00
		2462	1.894	2.325	81.46	0.89	7.49
802.11n (HT20)	SISO	2412	1.766	1.970	89.64	0.47	0.00
		2437	1.766	1.970	89.64	0.47	0.00
		2462	1.766	1.986	88.92	0.51	0.72

1.2 Test Graph

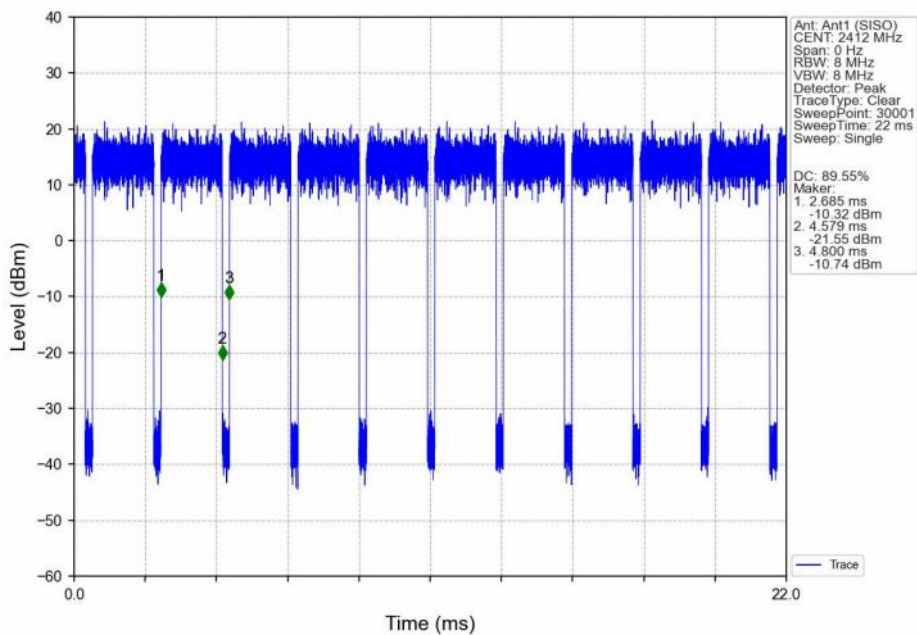
1.2.1 Ant1



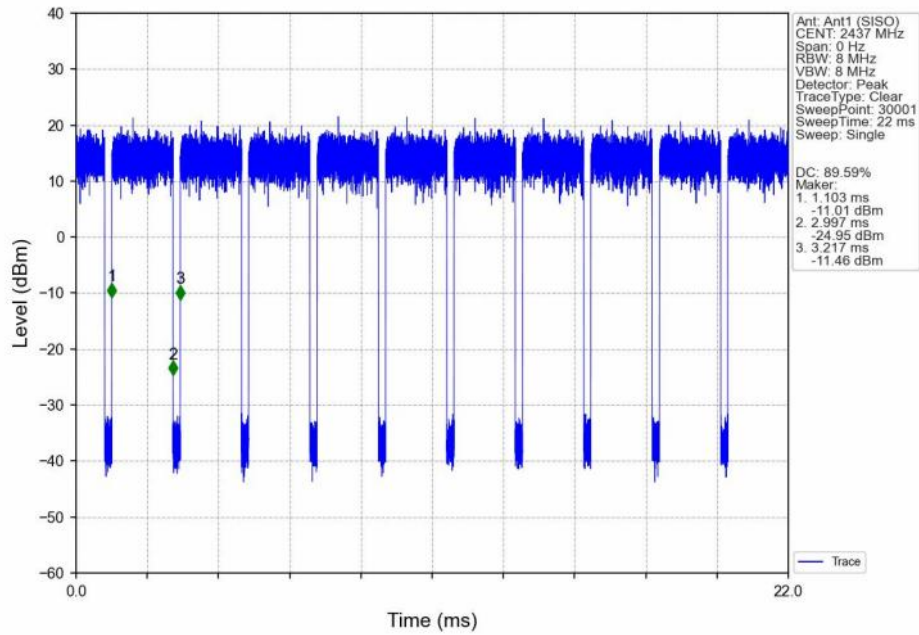
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



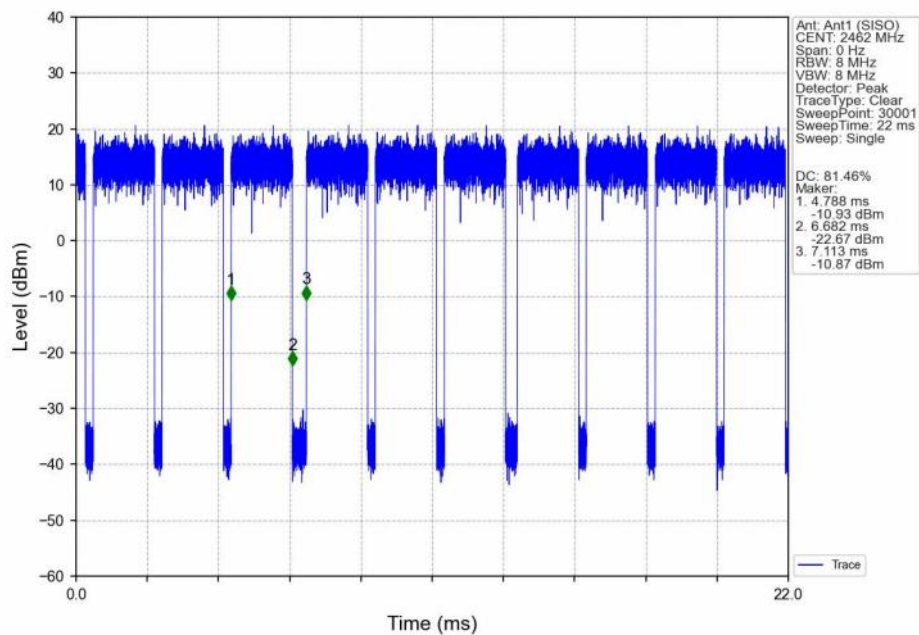
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



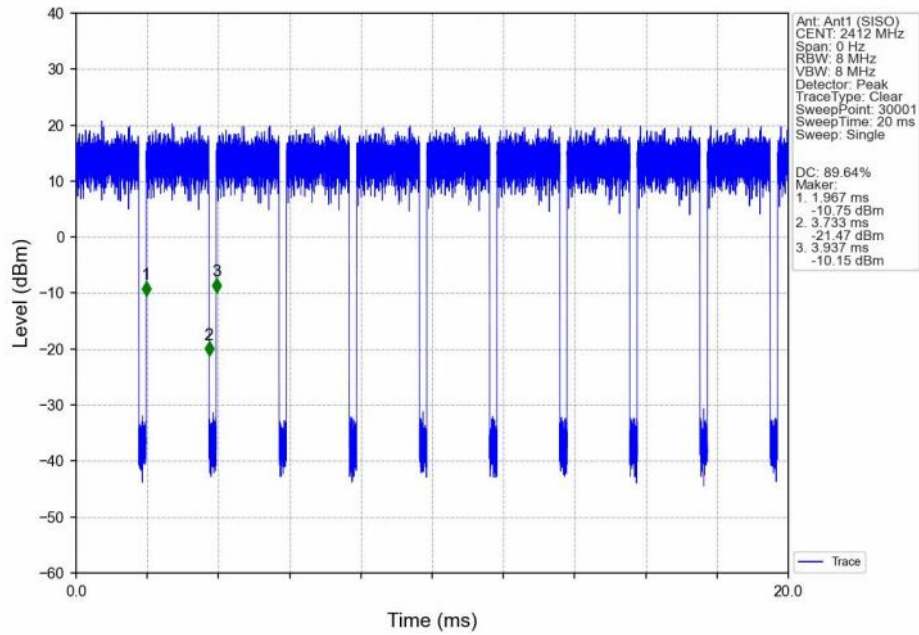
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



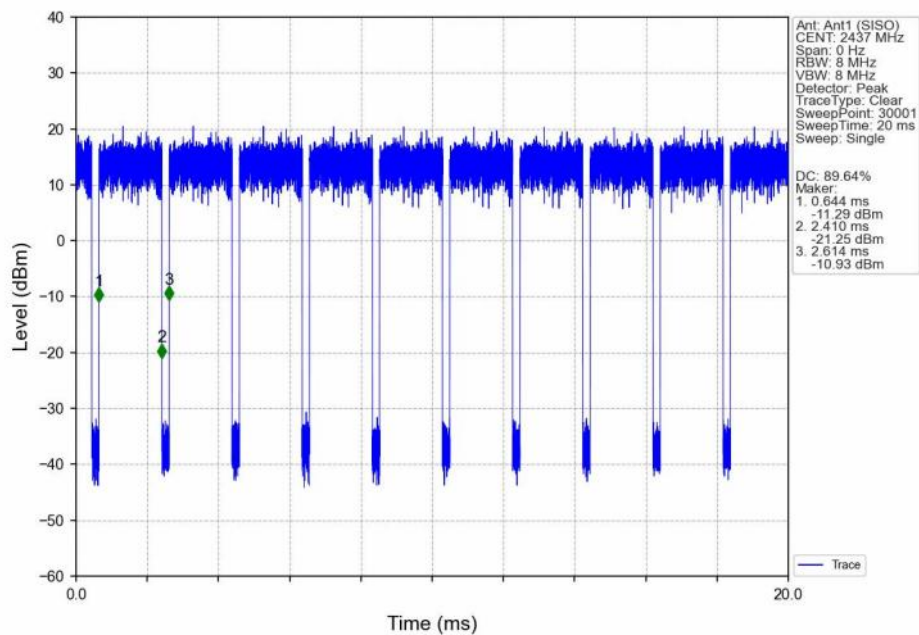
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



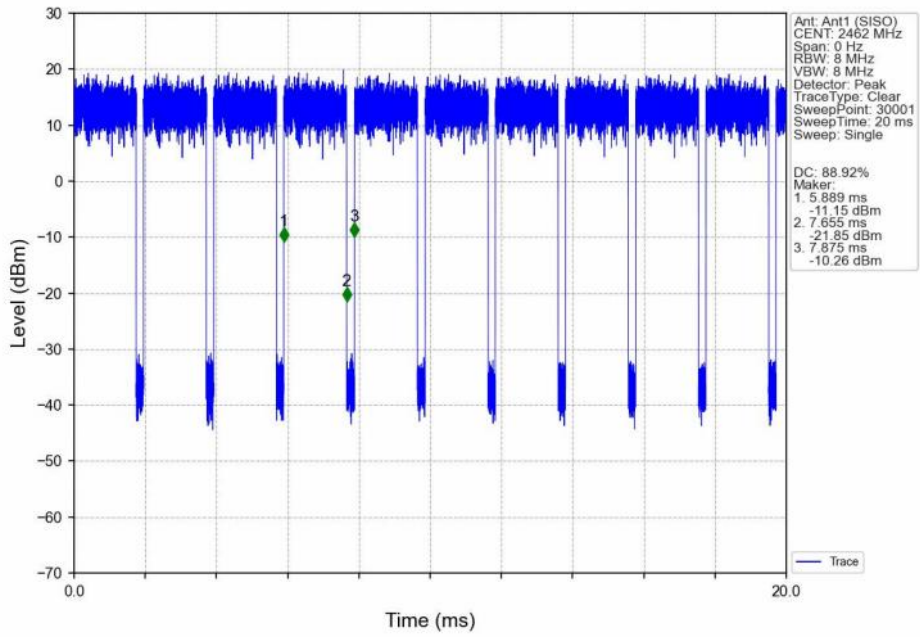
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

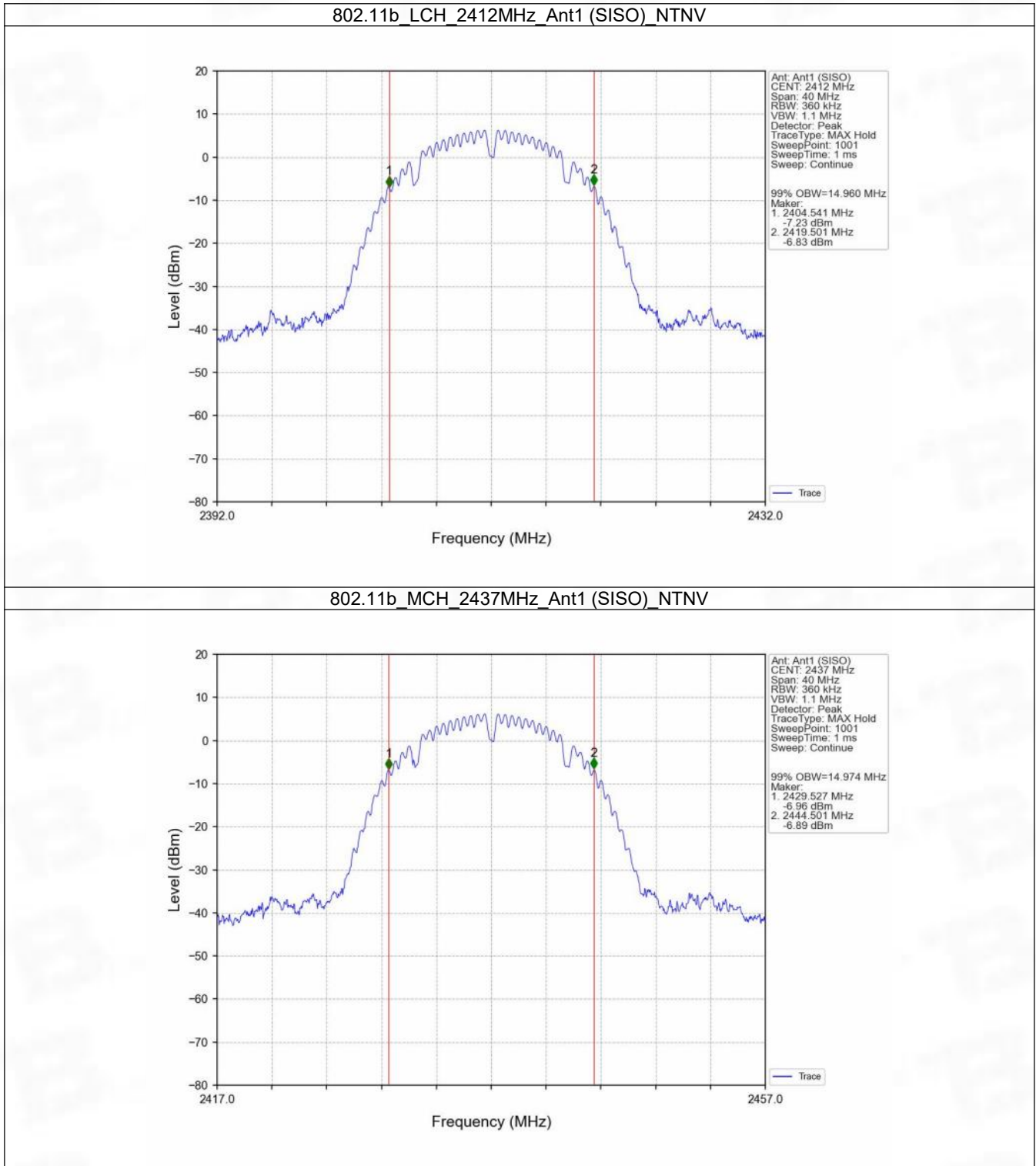
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.960	/	Pass
		2437	1	14.974	/	Pass
		2462	1	14.979	/	Pass
802.11g	SISO	2412	1	17.302	/	Pass
		2437	1	17.216	/	Pass
		2462	1	17.145	/	Pass
802.11n (HT20)	SISO	2412	1	17.917	/	Pass
		2437	1	17.855	/	Pass
		2462	1	17.872	/	Pass

2.1.2 6dB BW

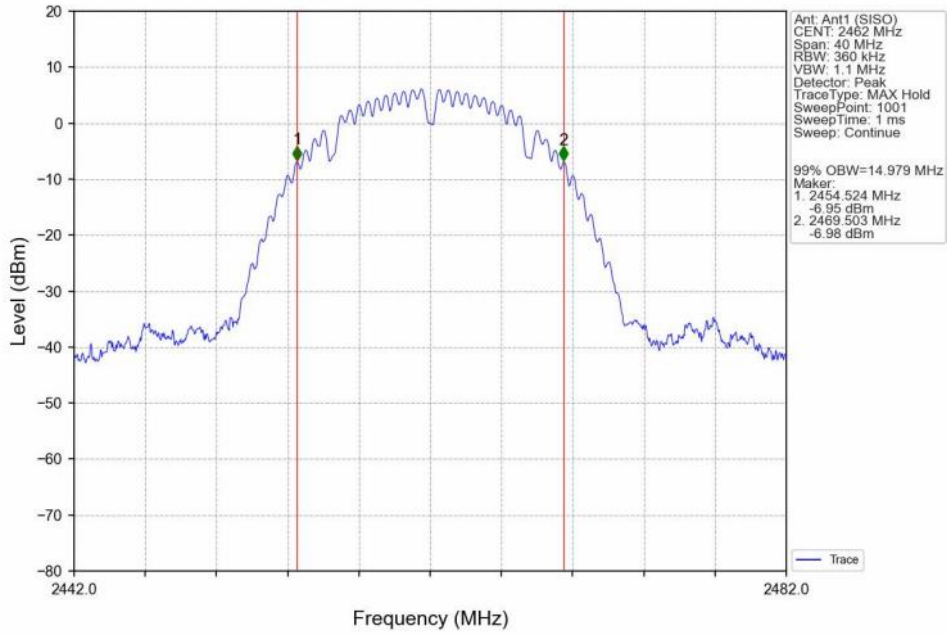
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.275	≥ 0.5	Pass
		2437	1	10.281	≥ 0.5	Pass
		2462	1	10.276	≥ 0.5	Pass
802.11g	SISO	2412	1	16.666	≥ 0.5	Pass
		2437	1	16.652	≥ 0.5	Pass
		2462	1	16.727	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.637	≥ 0.5	Pass
		2437	1	17.651	≥ 0.5	Pass
		2462	1	17.501	≥ 0.5	Pass

2.2 Test Graph

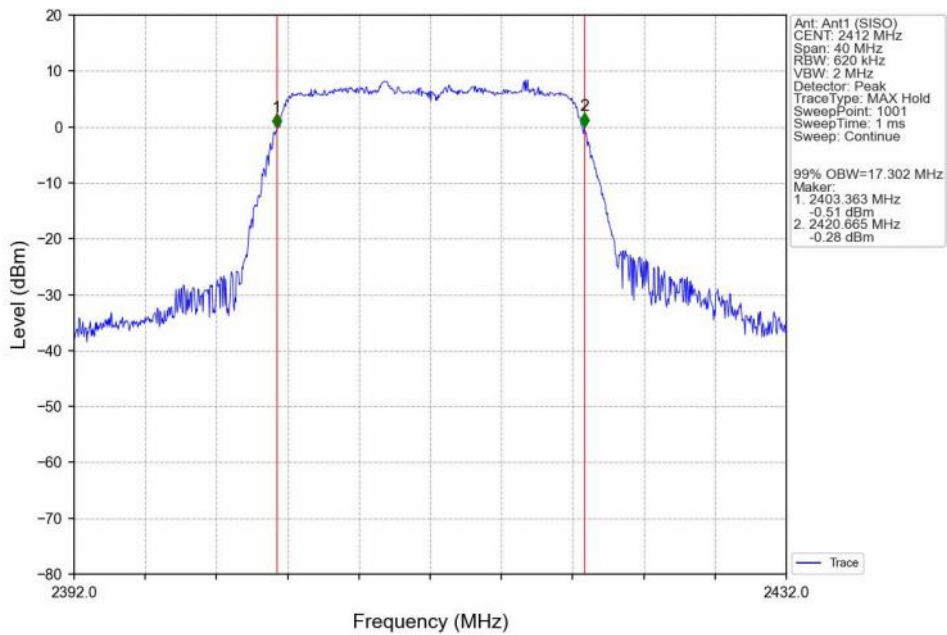
2.2.1 OBW



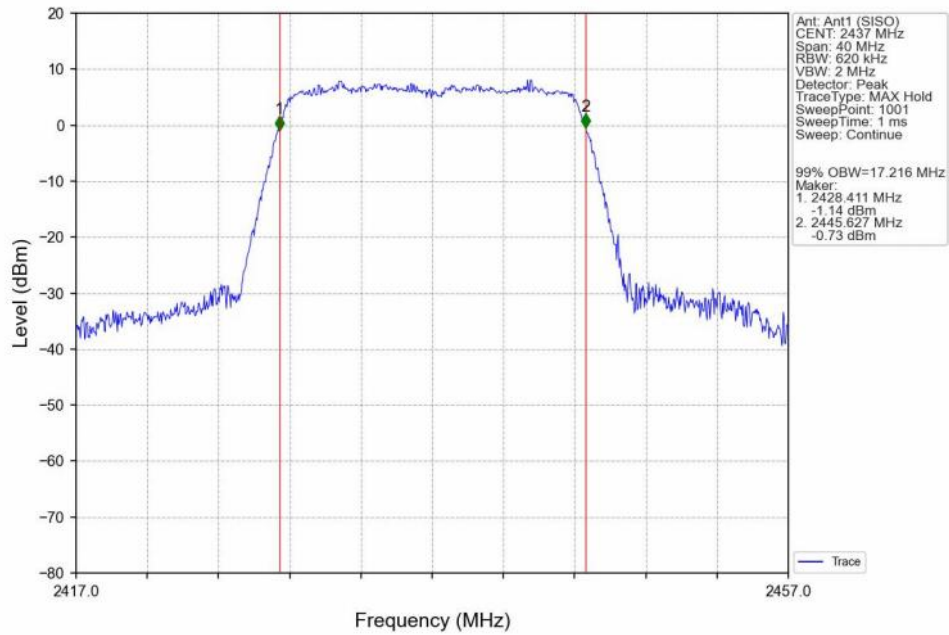
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



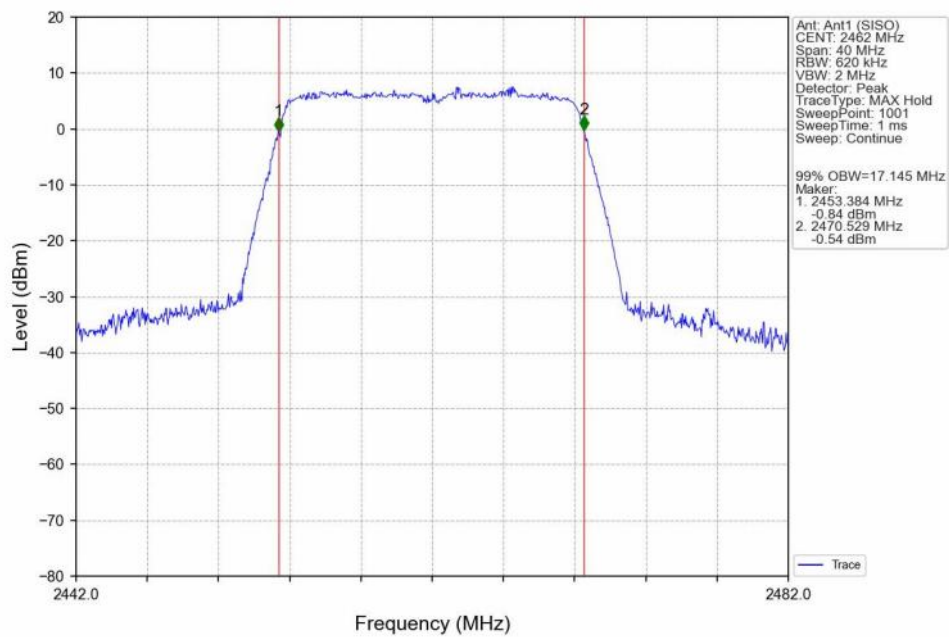
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



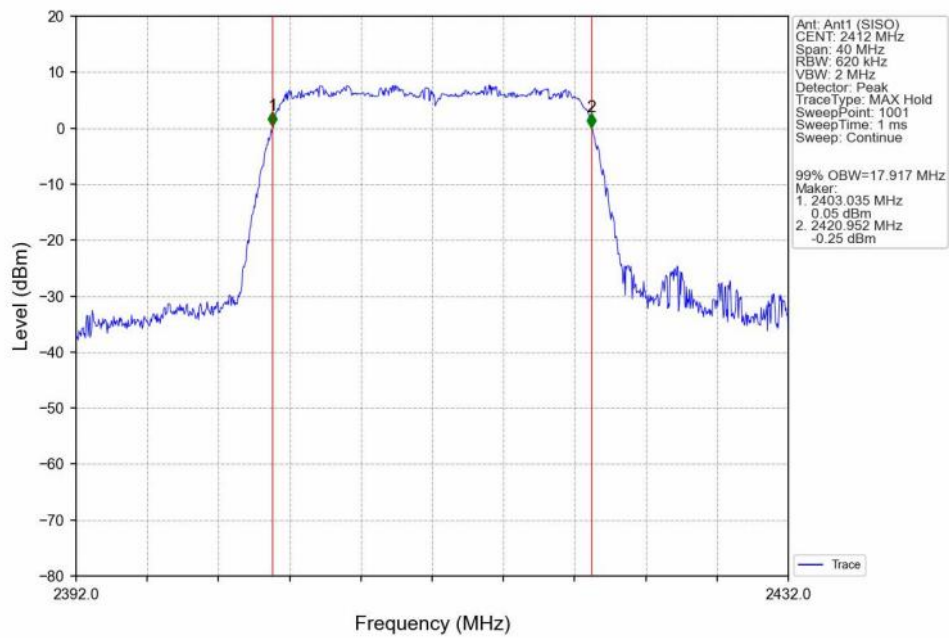
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



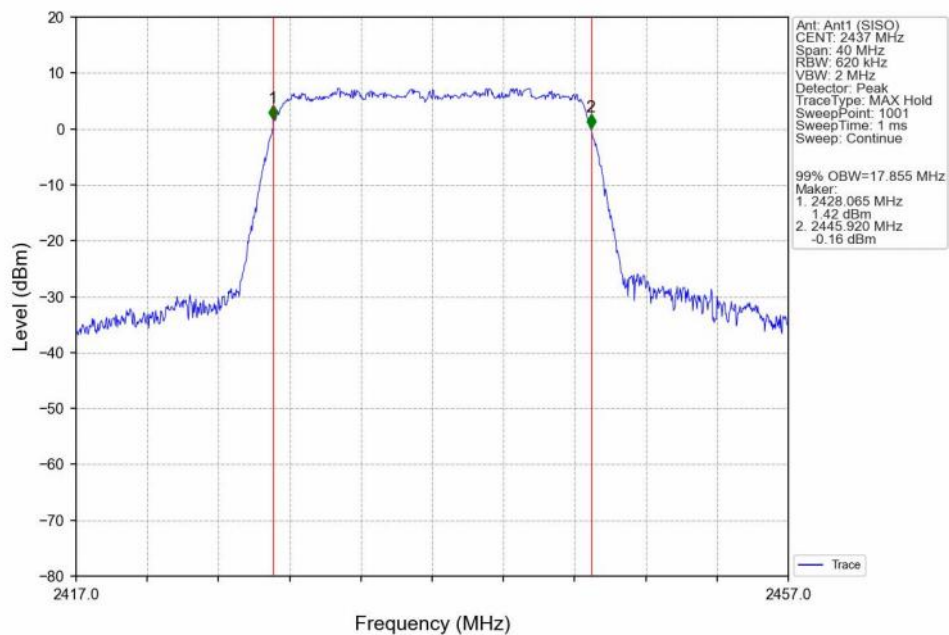
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



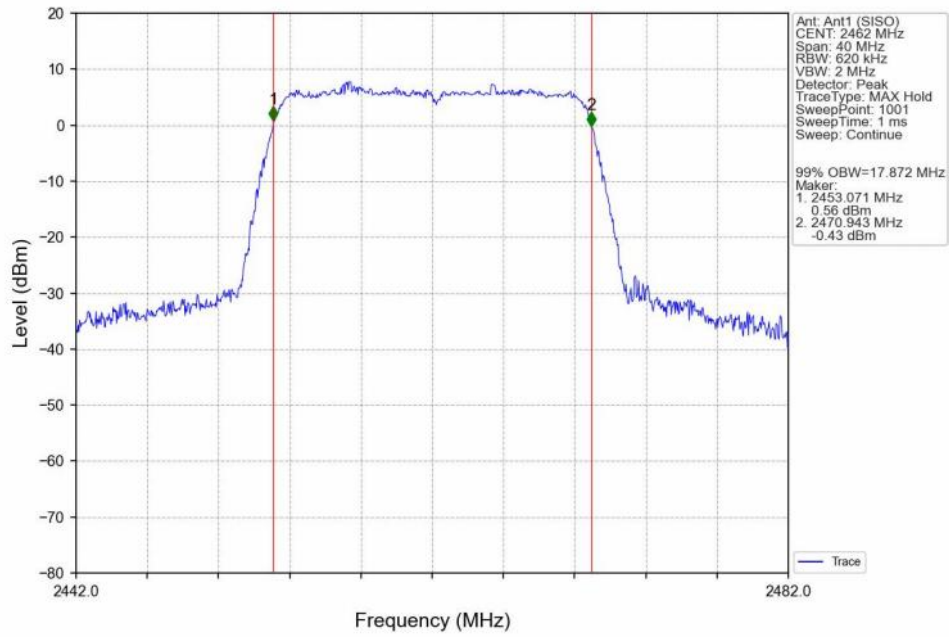
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



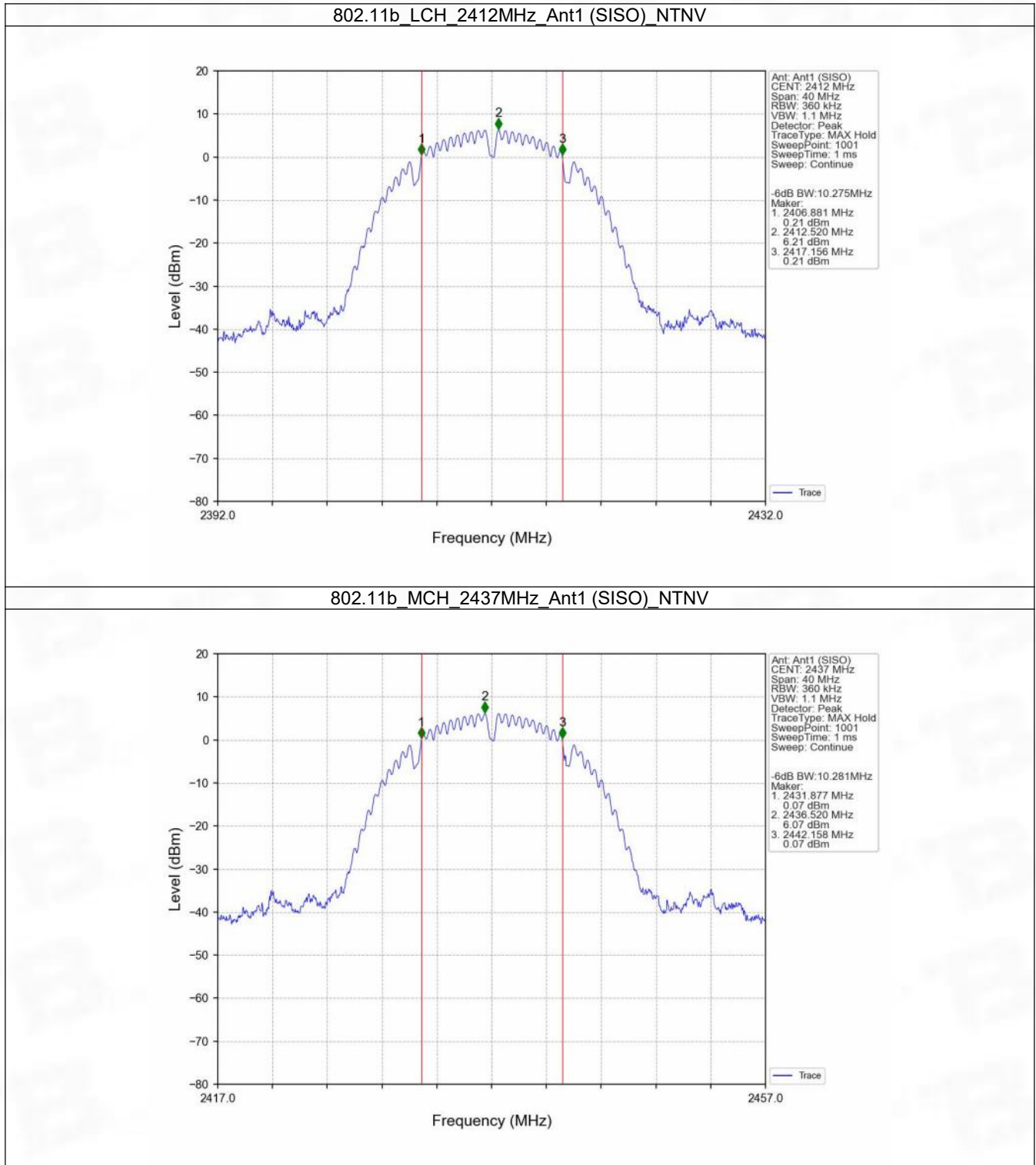
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



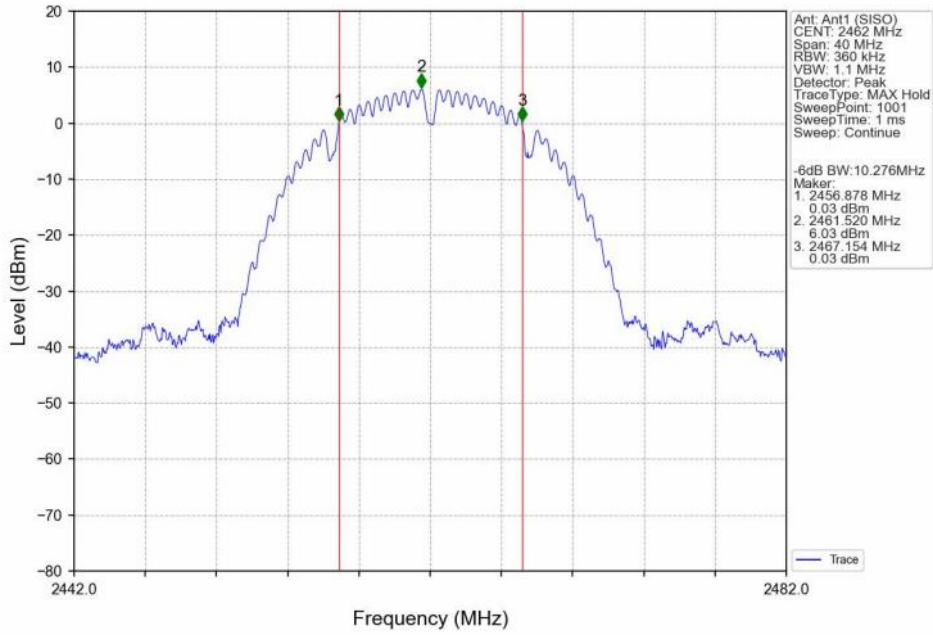
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



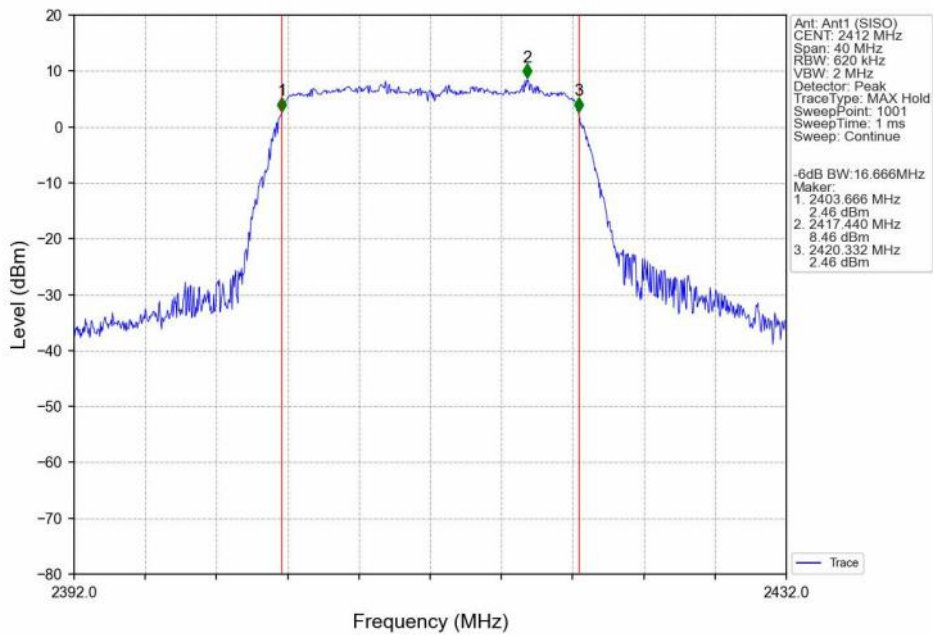
2.2.2 6dB BW



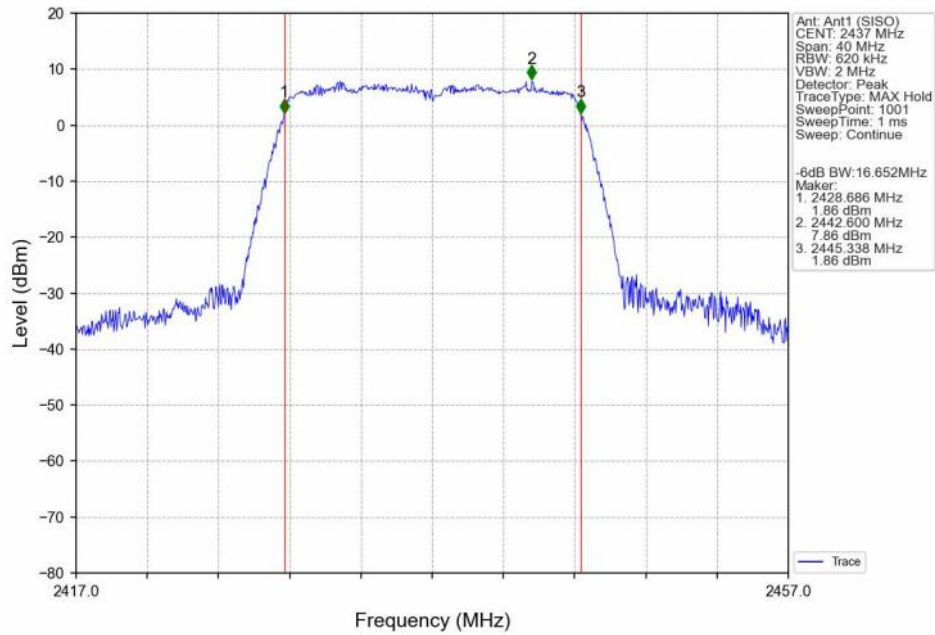
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



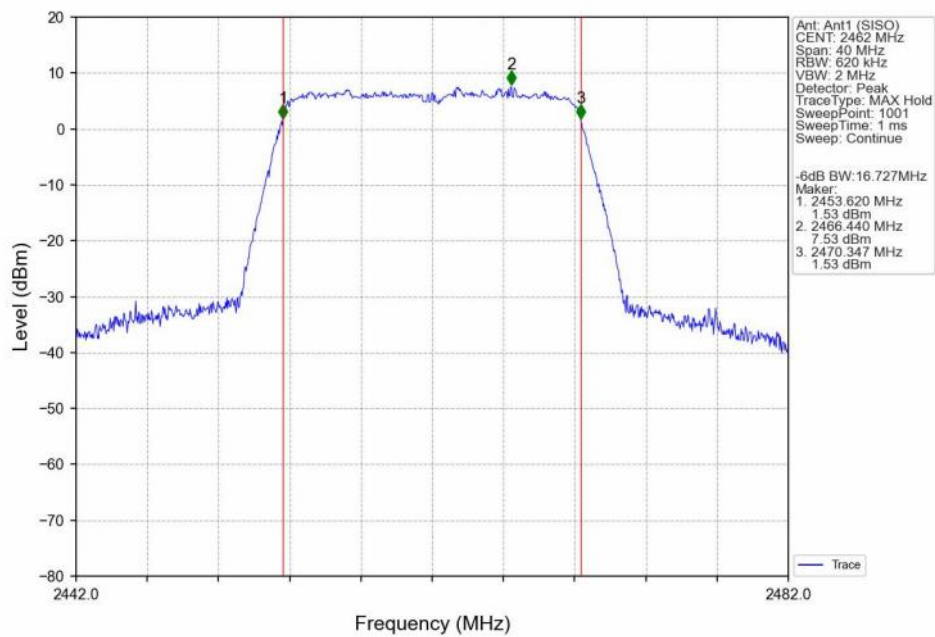
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



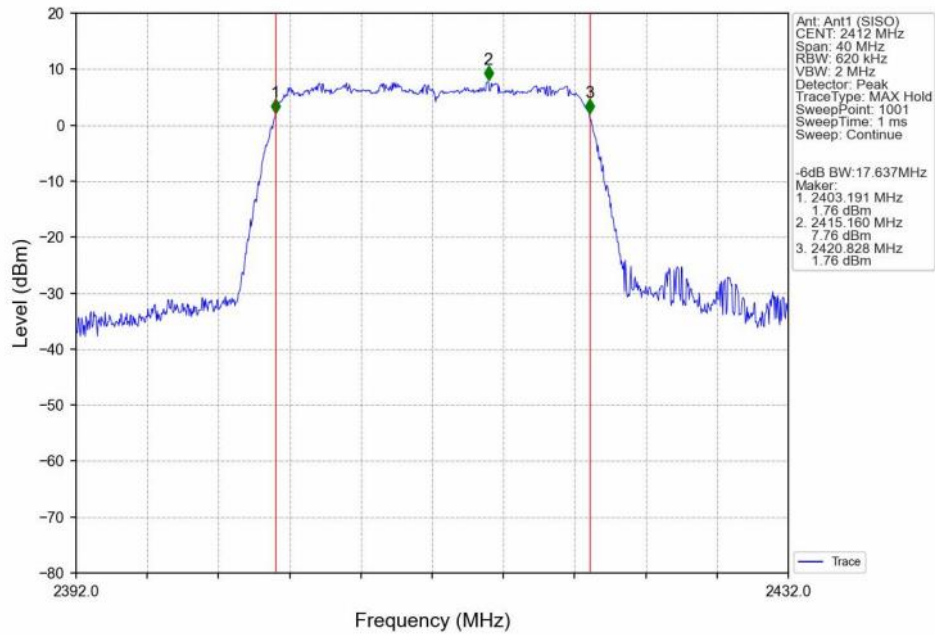
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



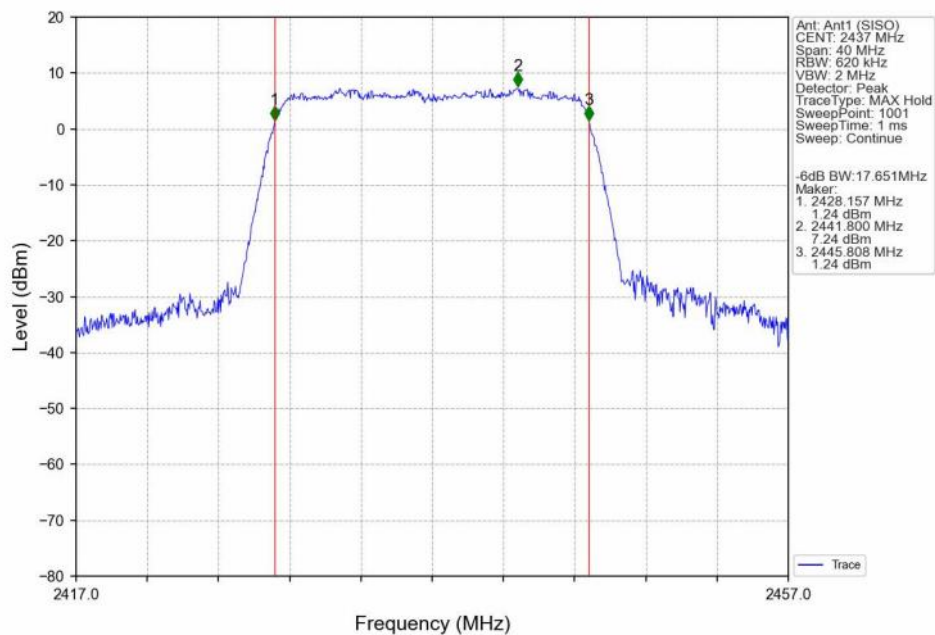
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



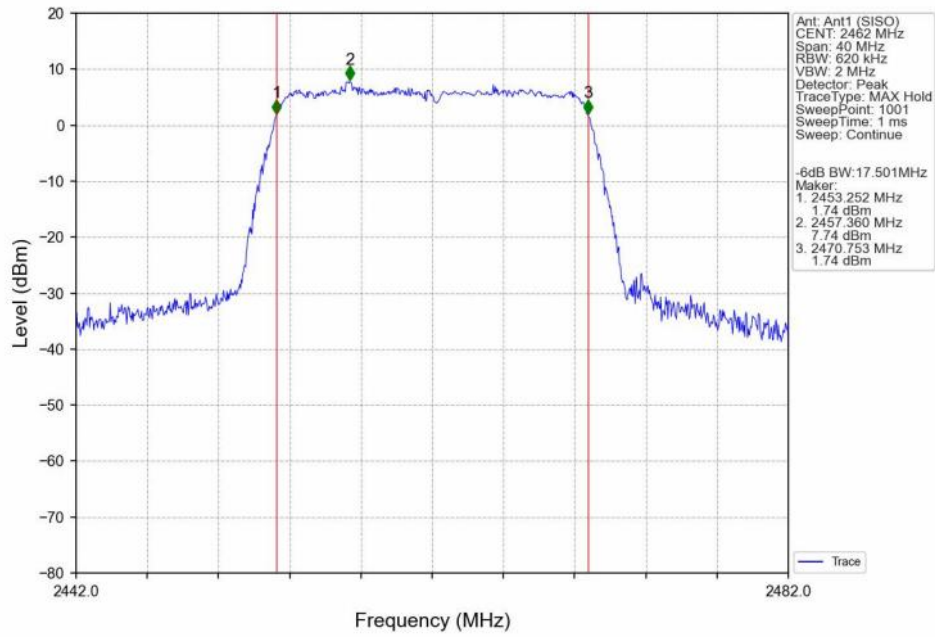
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.68	<=30	Pass
		2437	14.62	<=30	Pass
		2462	14.51	<=30	Pass
802.11g	SISO	2412	13.41	<=30	Pass
		2437	13.28	<=30	Pass
		2462	13.09	<=30	Pass
802.11n (HT20)	SISO	2412	13.30	<=30	Pass
		2437	13.21	<=30	Pass
		2462	13.01	<=30	Pass

Note1: Antenna Gain: Ant1: 3.00dBi;

4. Maximum Power Spectral Density

4.1 Test Result

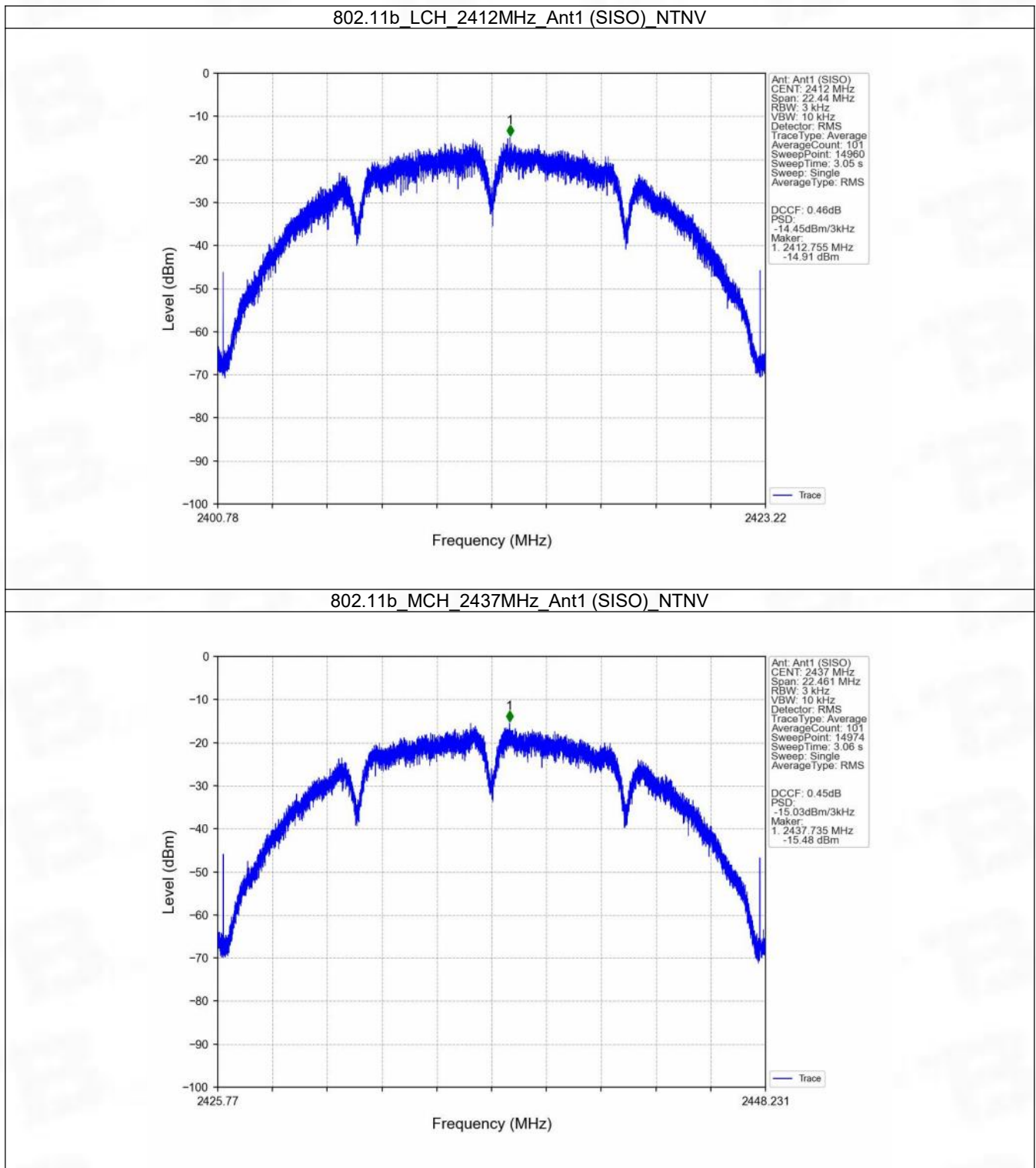
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-14.45	<=8	Pass
		2437	-15.03	<=8	Pass
		2462	-15.54	<=8	Pass
802.11g	SISO	2412	-18.30	<=8	Pass
		2437	-17.87	<=8	Pass
		2462	-18.27	<=8	Pass
802.11n (HT20)	SISO	2412	-17.42	<=8	Pass
		2437	-17.89	<=8	Pass
		2462	-17.40	<=8	Pass

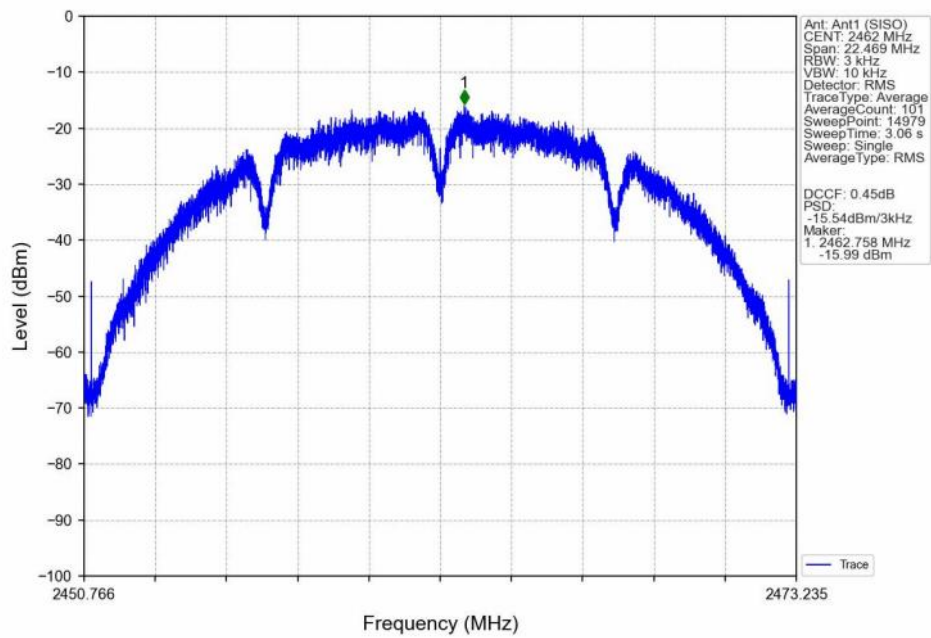
Note1: Antenna Gain: Ant1: 3.00dBi;

4.2 Test Graph

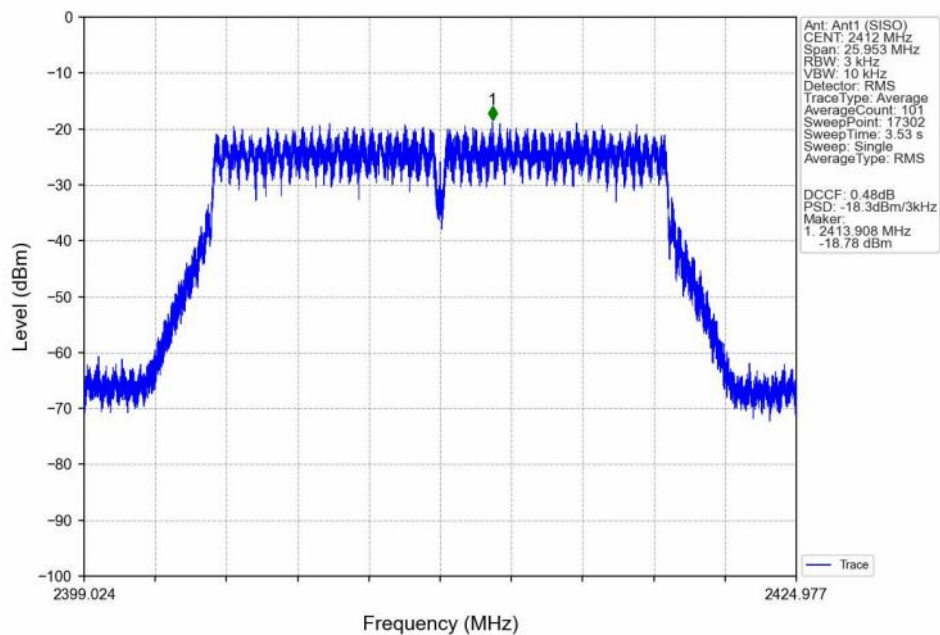
4.2.1 PSD



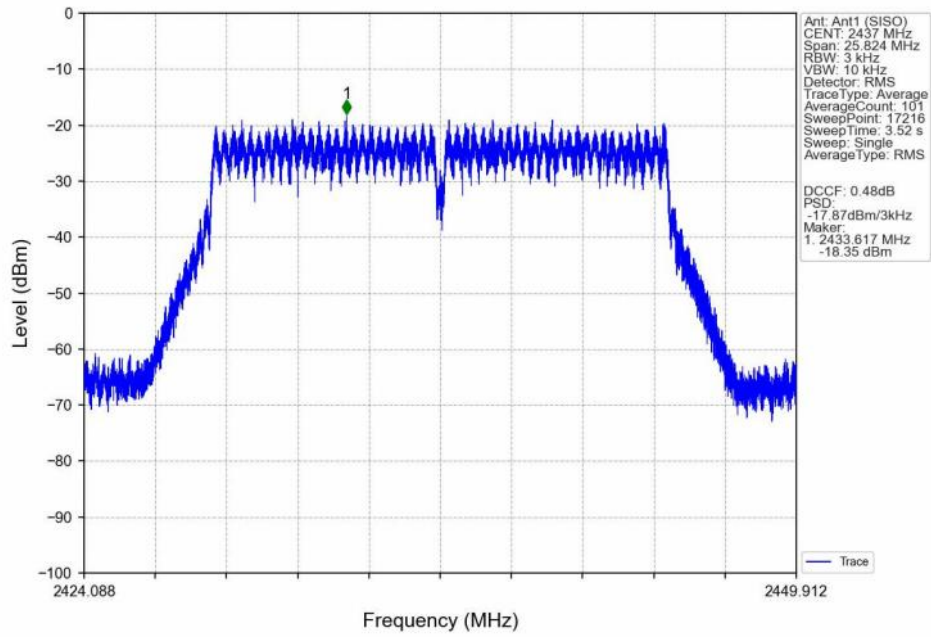
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



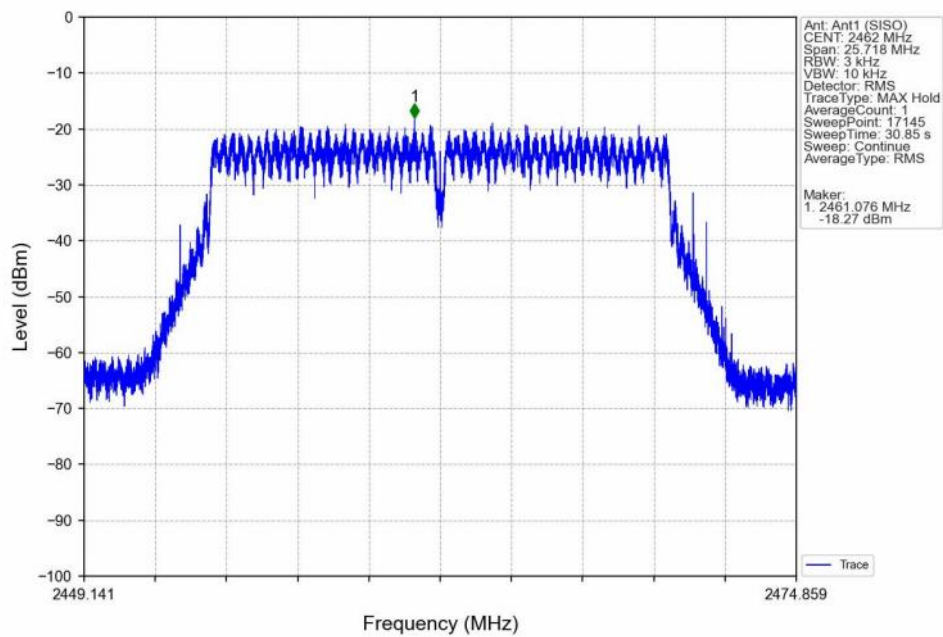
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



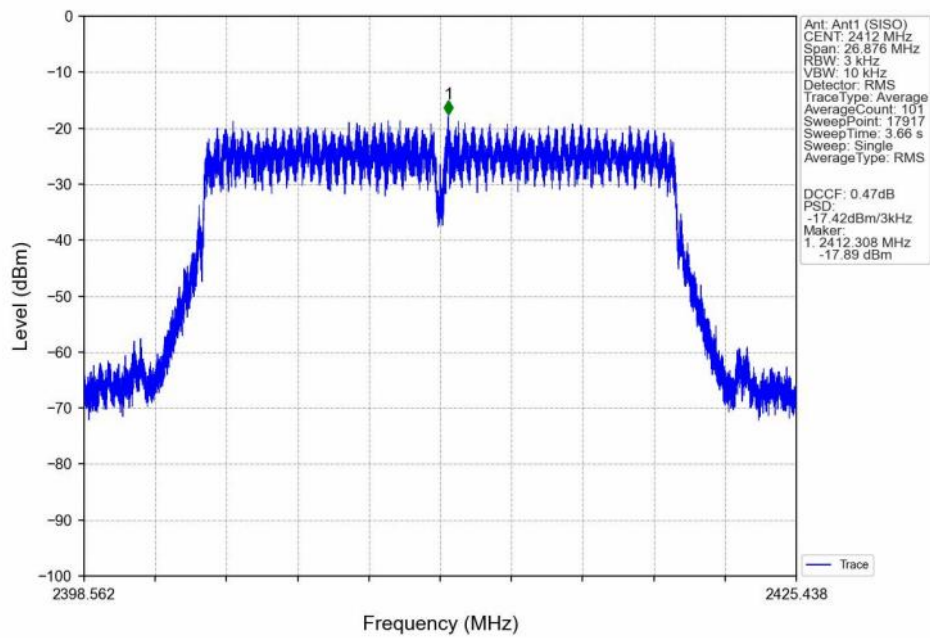
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



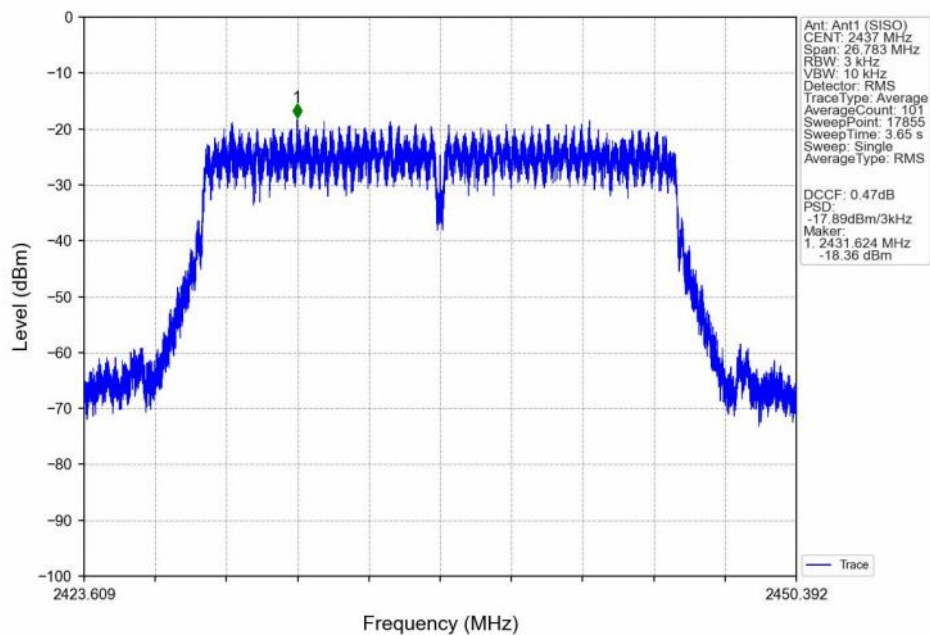
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



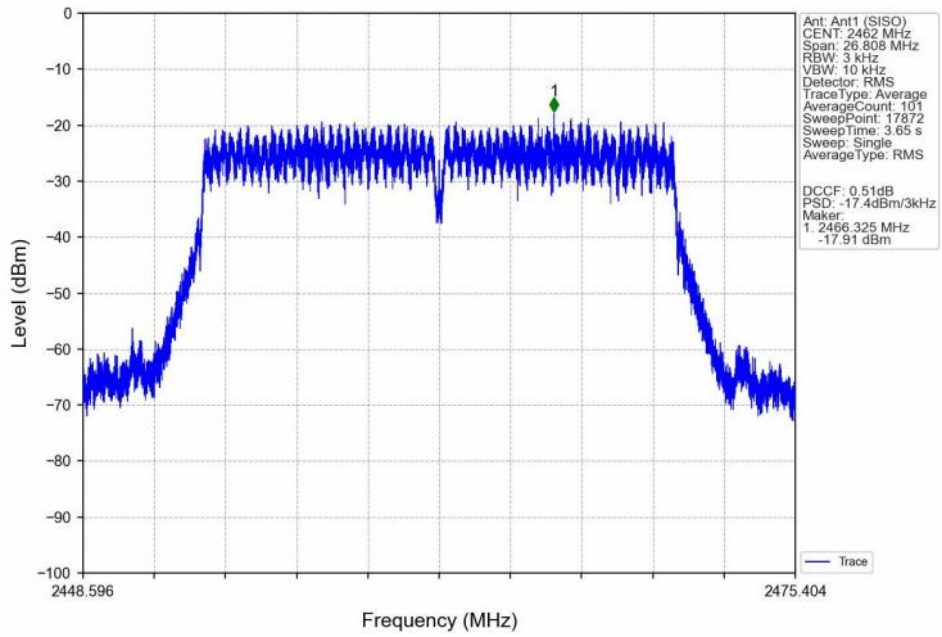
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.69
		2437	1	5.86
		2462	1	5.52
802.11g	SISO	2412	1	1.92
		2437	1	2.04
		2462	1	1.90
802.11n (HT20)	SISO	2412	1	2.20
		2437	1	2.07
		2462	1	1.84

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

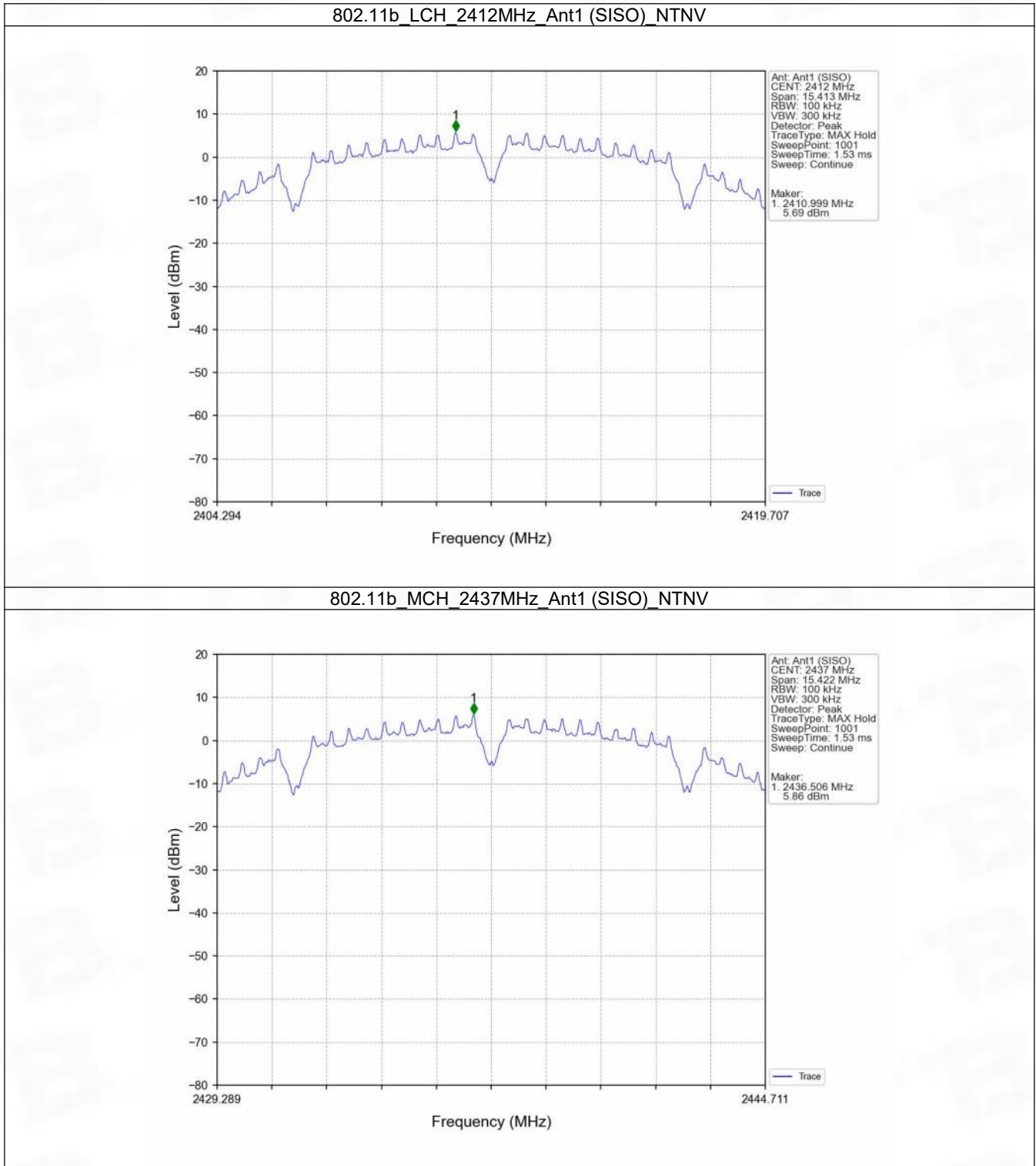
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.69	-24.31	Pass
		2437	1	5.86	-24.14	Pass
		2462	1	5.52	-24.48	Pass
802.11g	SISO	2412	1	1.92	-28.08	Pass
		2437	1	2.04	-27.96	Pass
		2462	1	1.90	-28.10	Pass
802.11n (HT20)	SISO	2412	1	2.20	-27.80	Pass
		2437	1	2.07	-27.93	Pass
		2462	1	1.84	-28.16	Pass

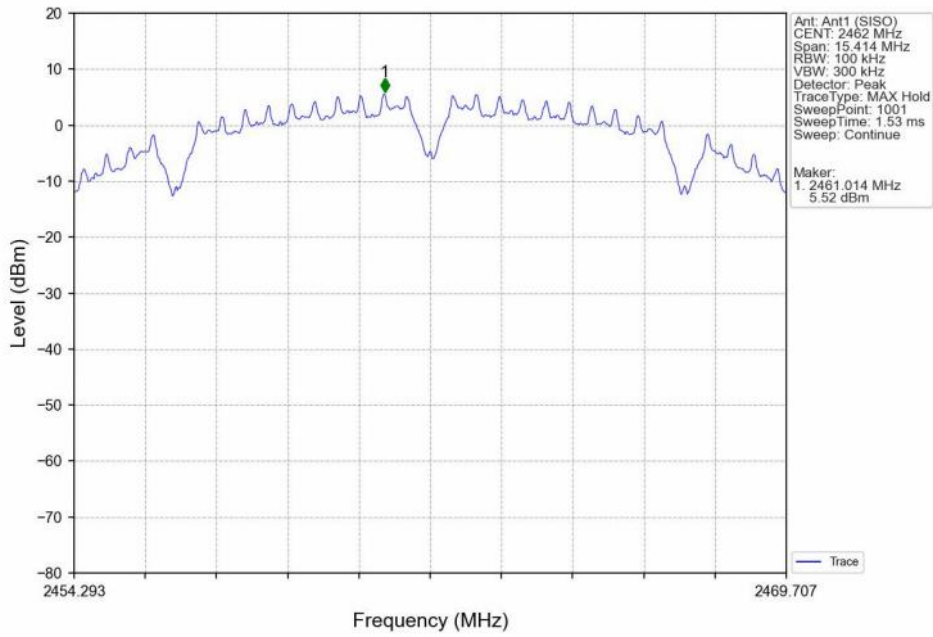
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

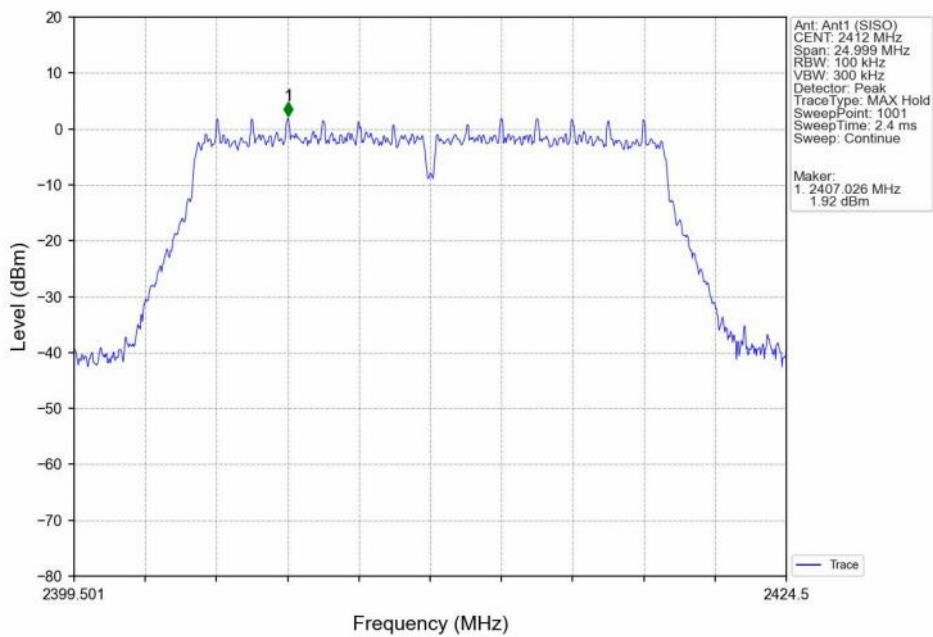
5.2.1 Ref



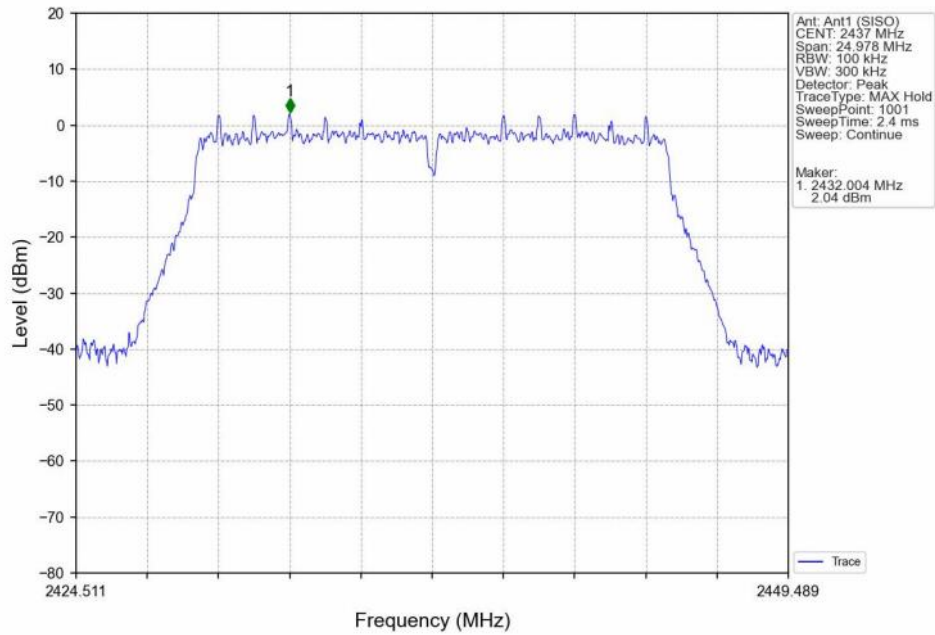
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



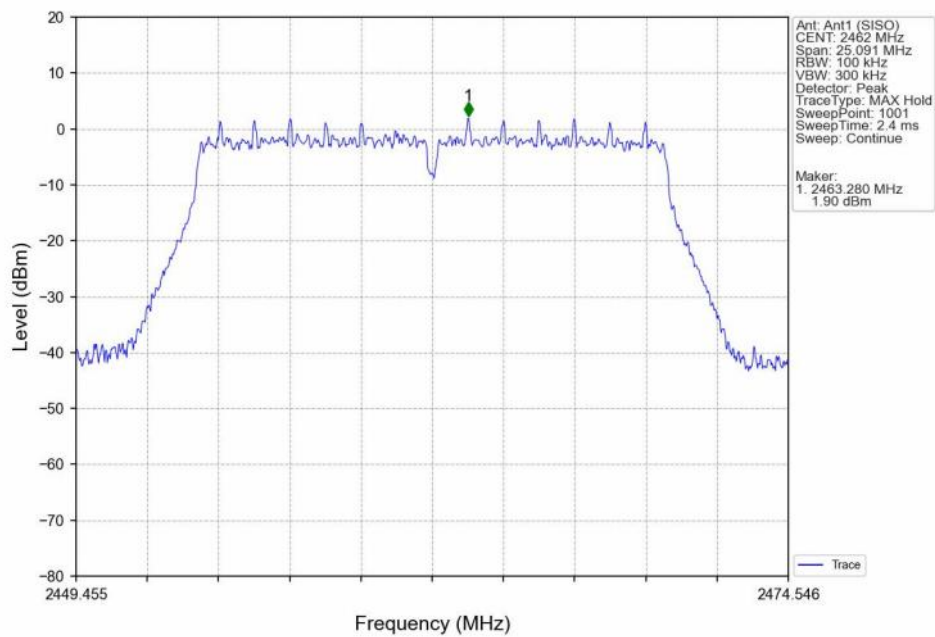
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



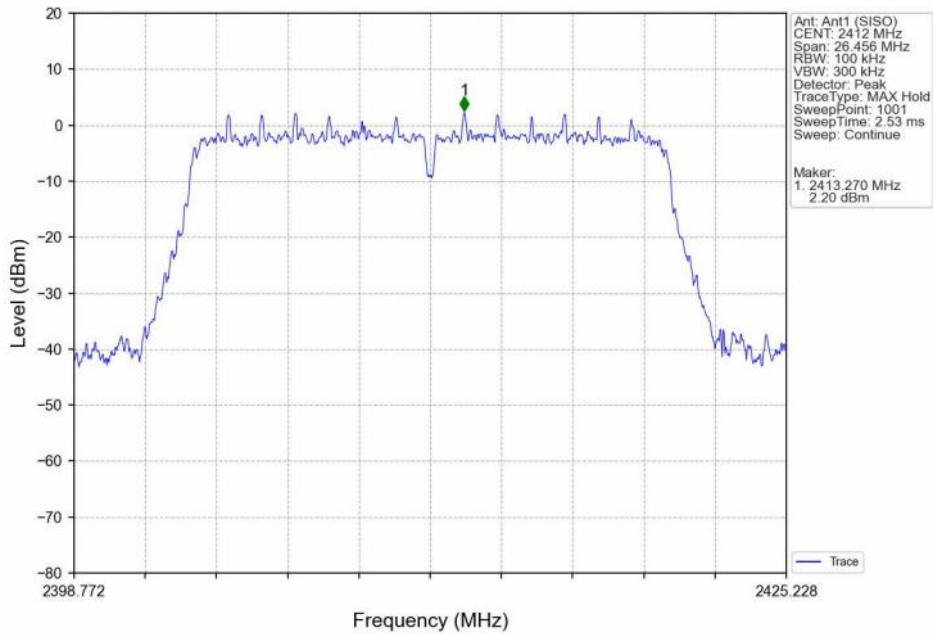
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



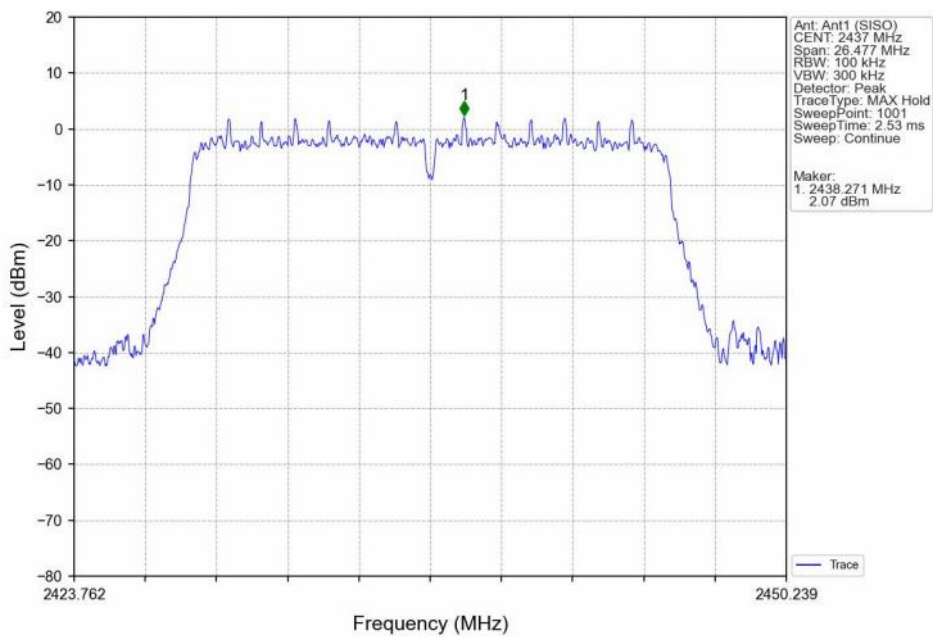
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



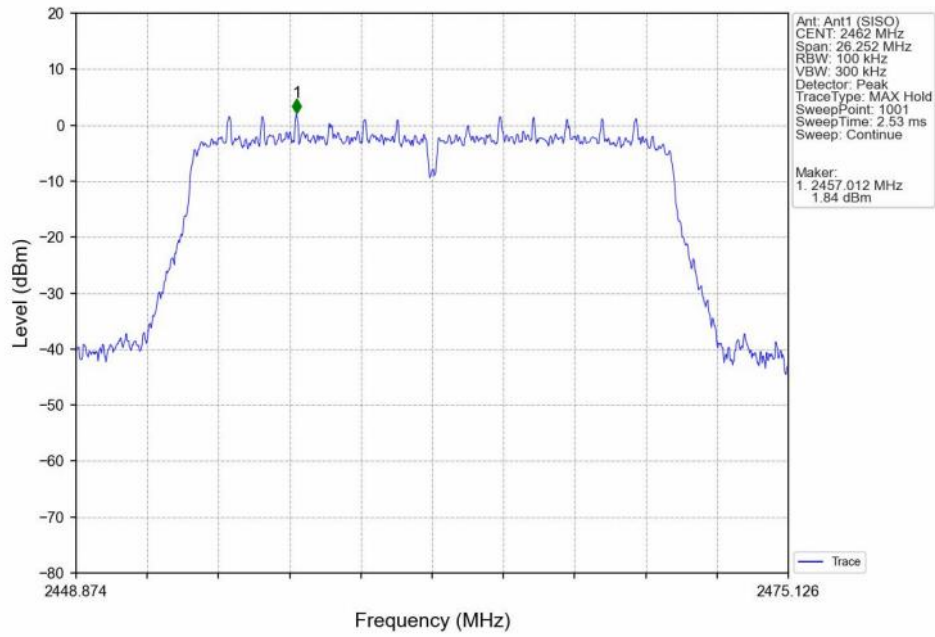
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



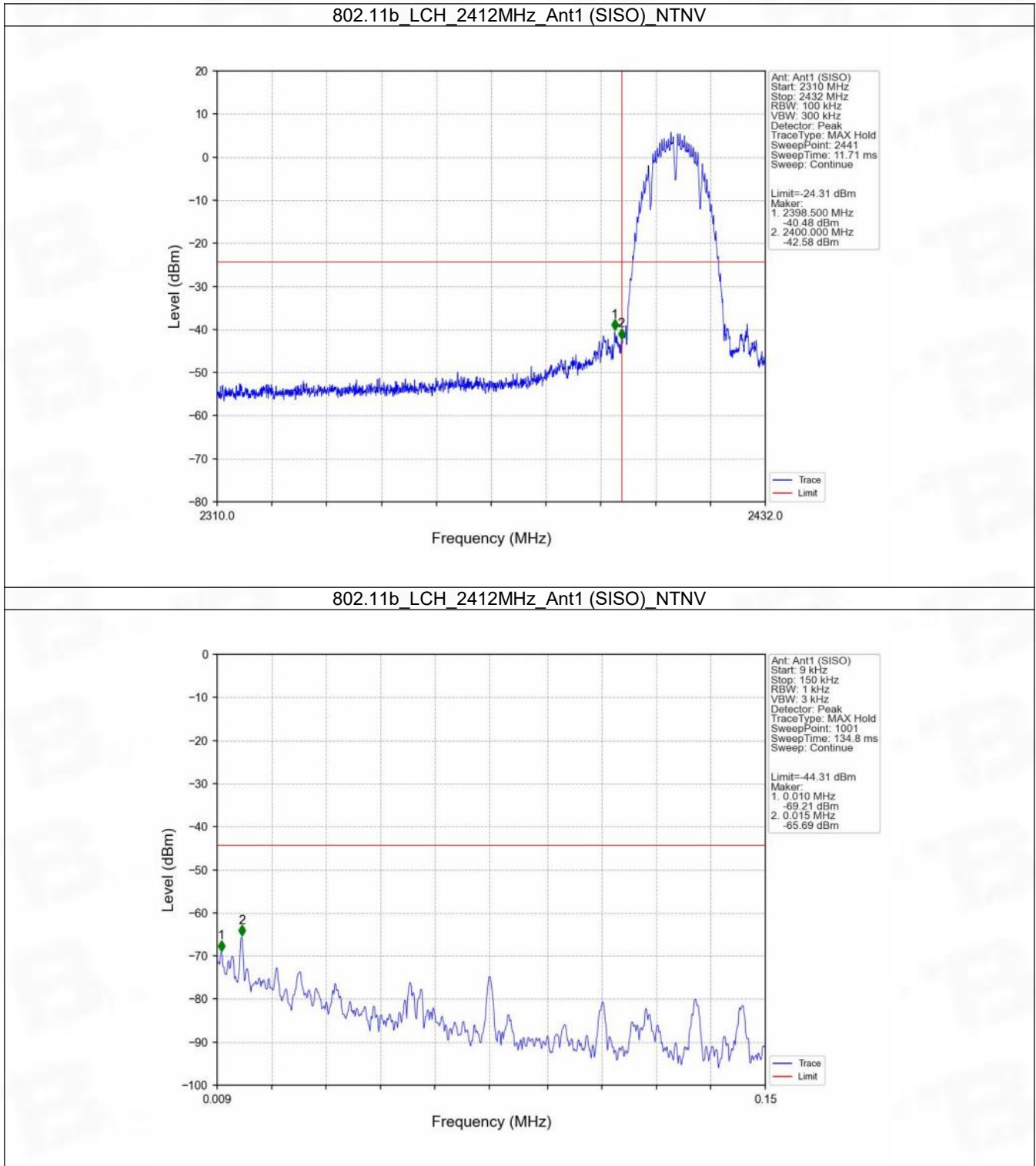
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



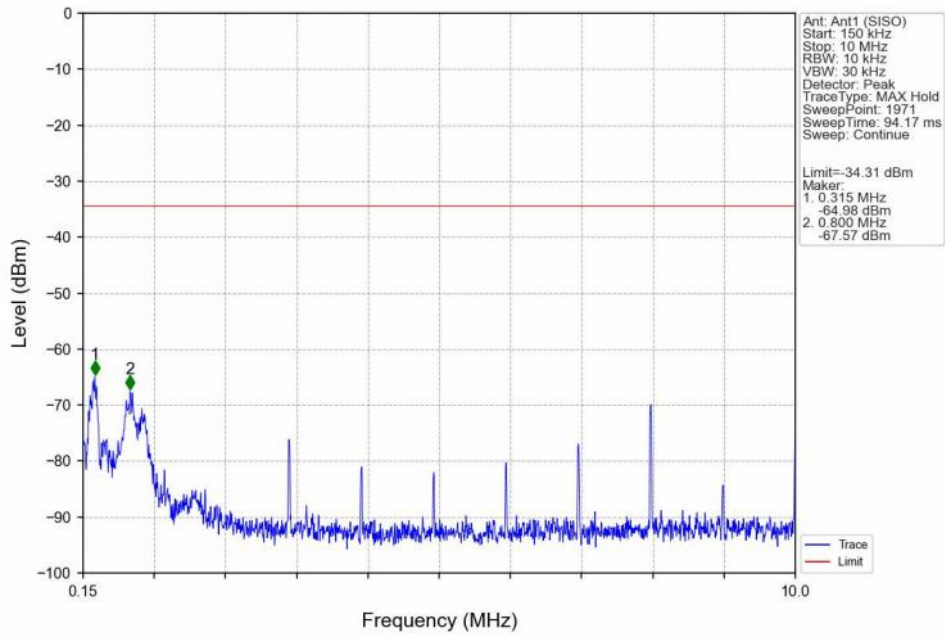
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



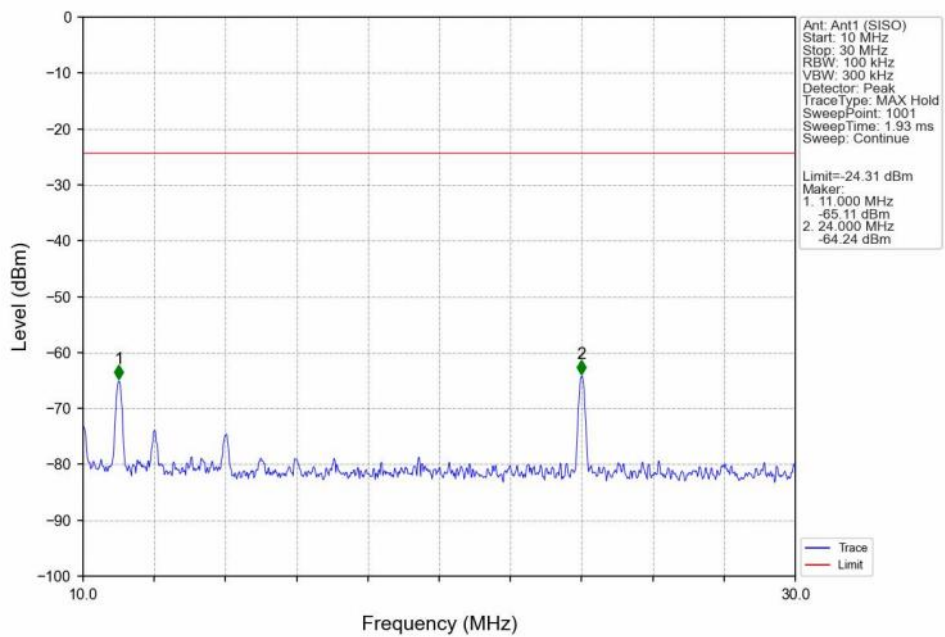
5.2.2 CSE



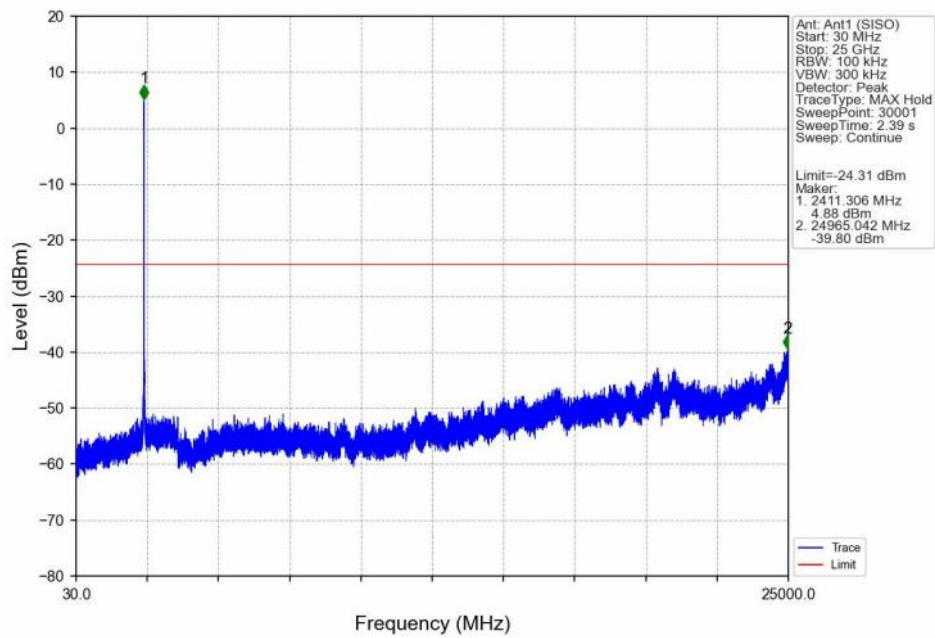
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



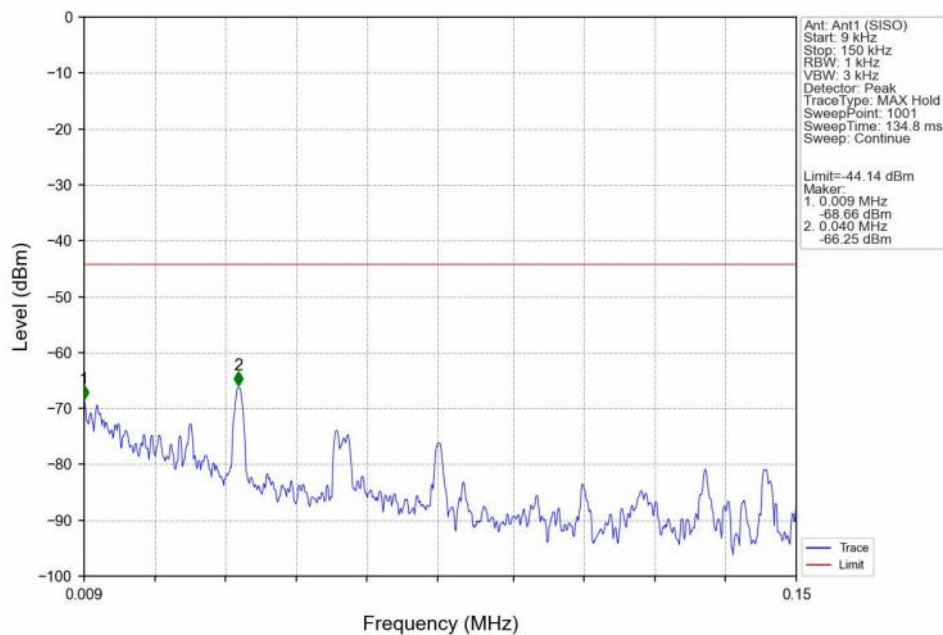
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



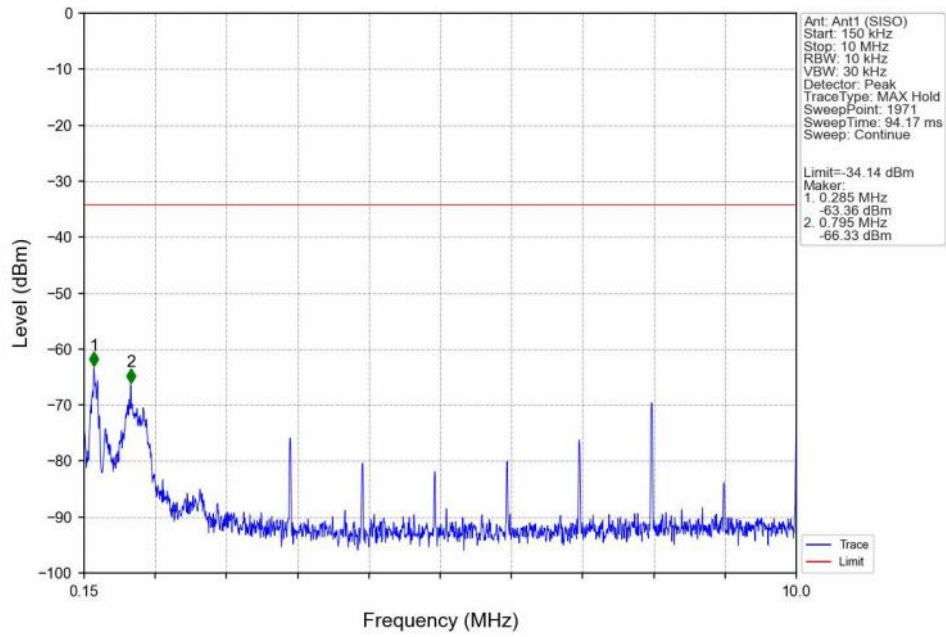
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



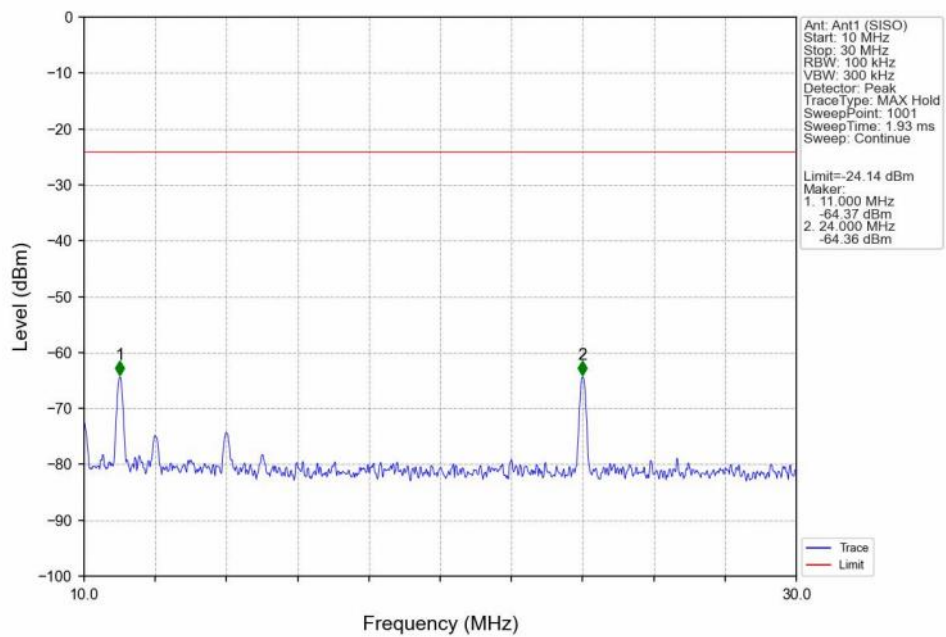
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



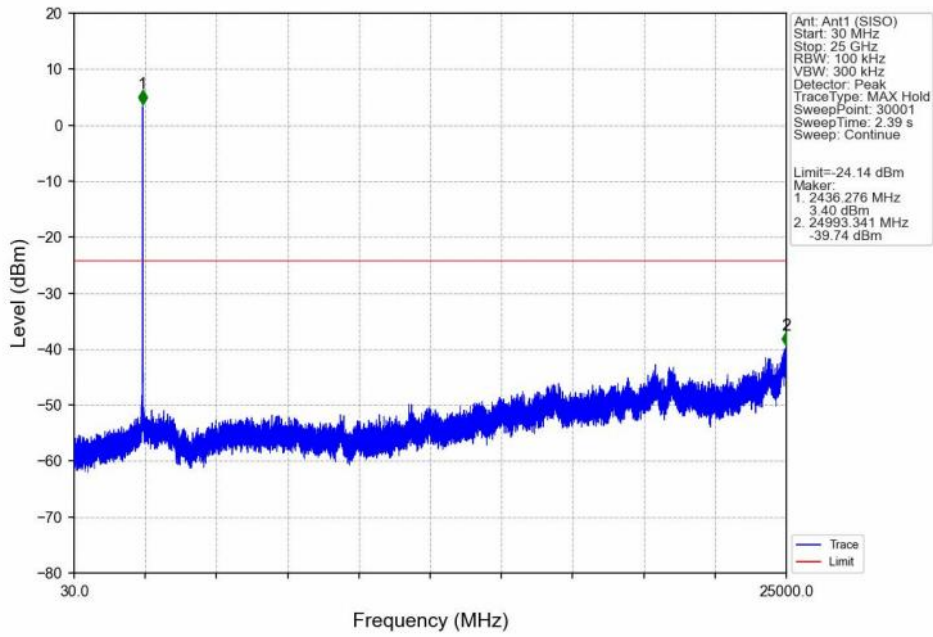
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



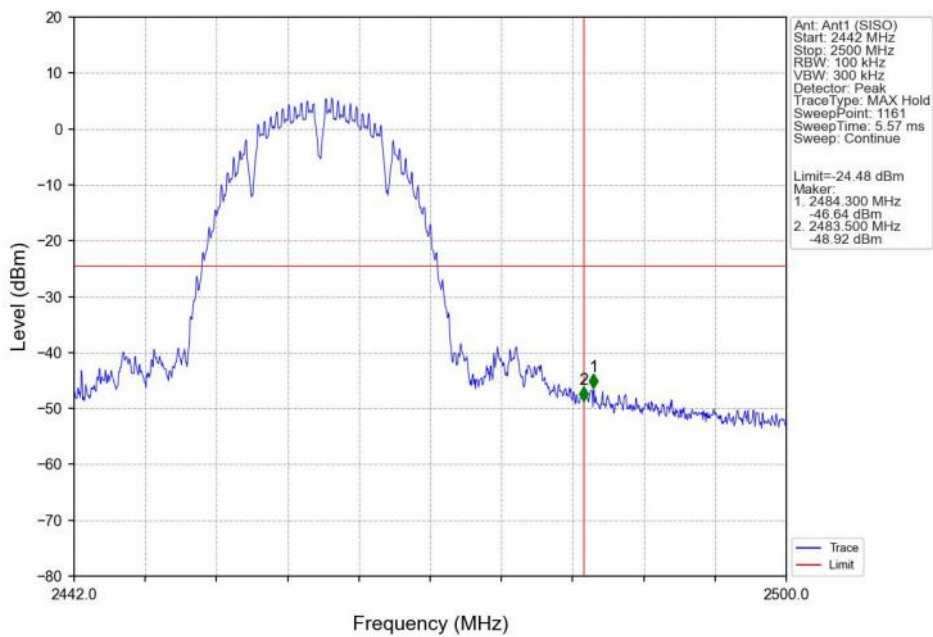
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



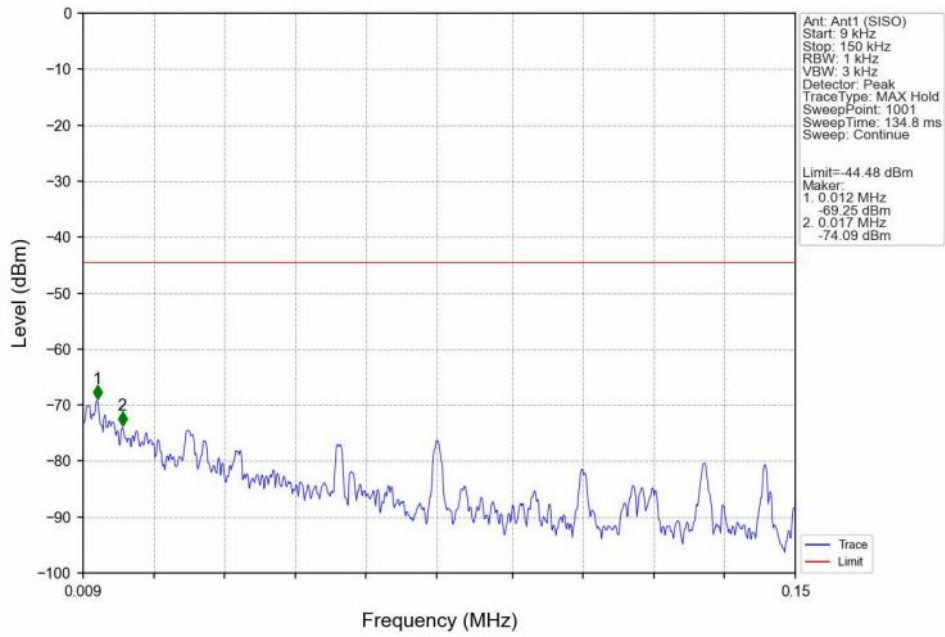
802.11b MCH_2437MHz_Ant1 (SISO)_NTNV



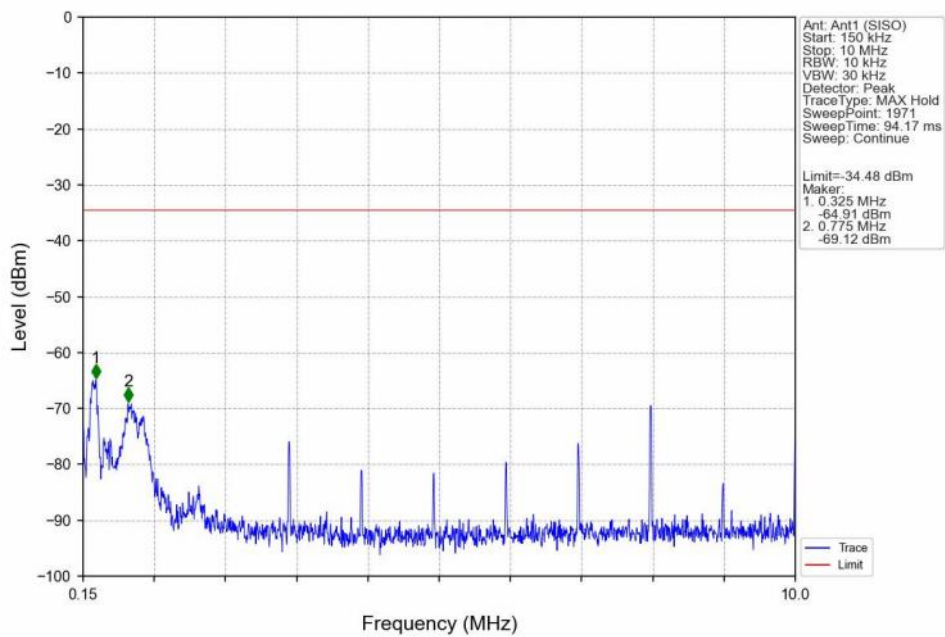
802.11b HCH_2462MHz_Ant1 (SISO)_NTNV



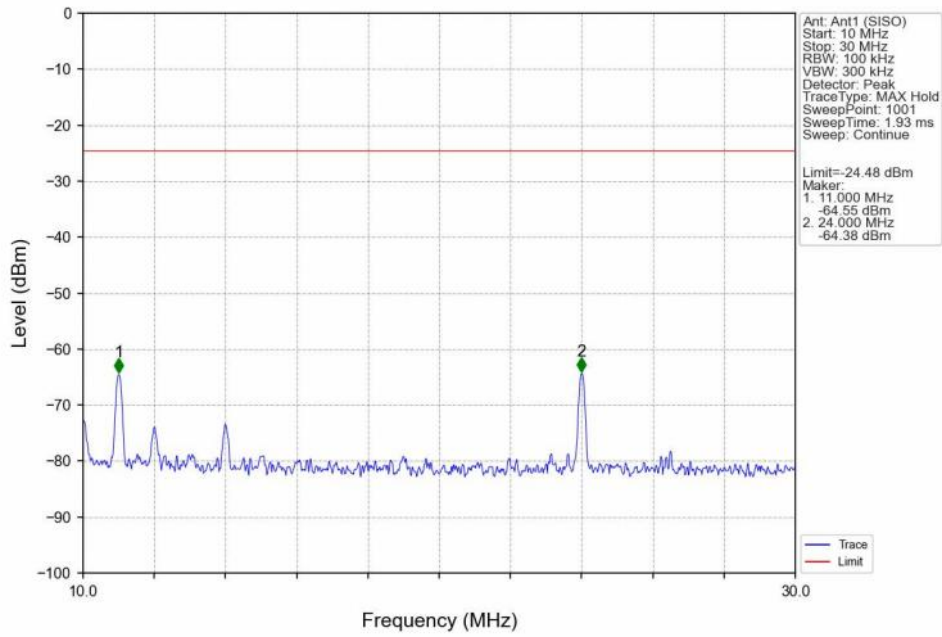
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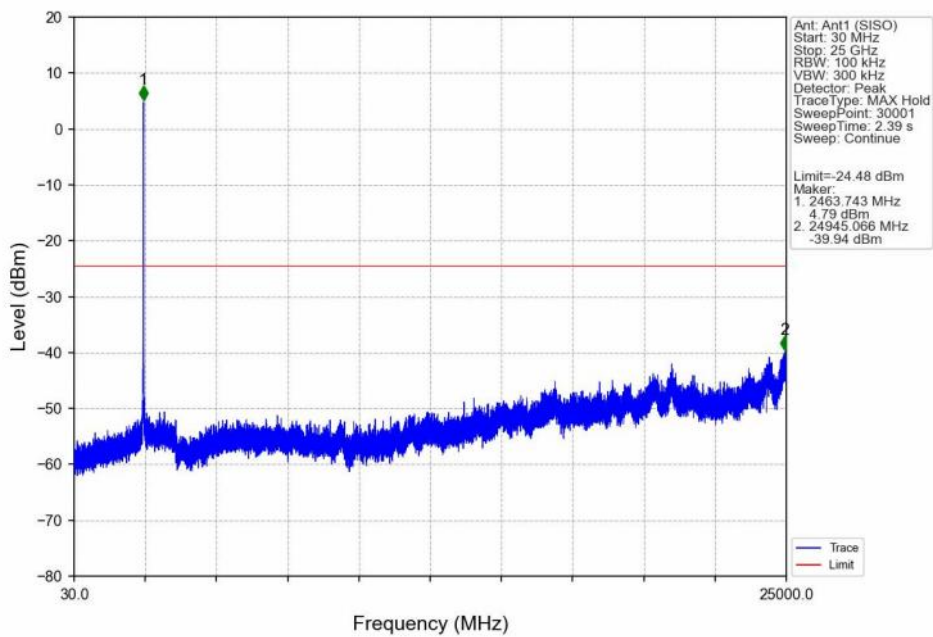
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



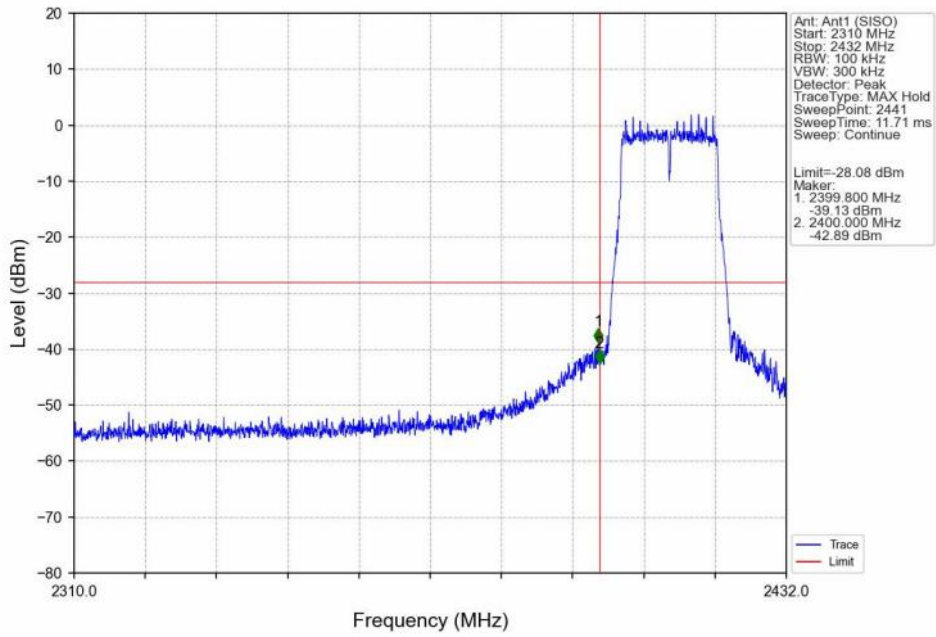
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



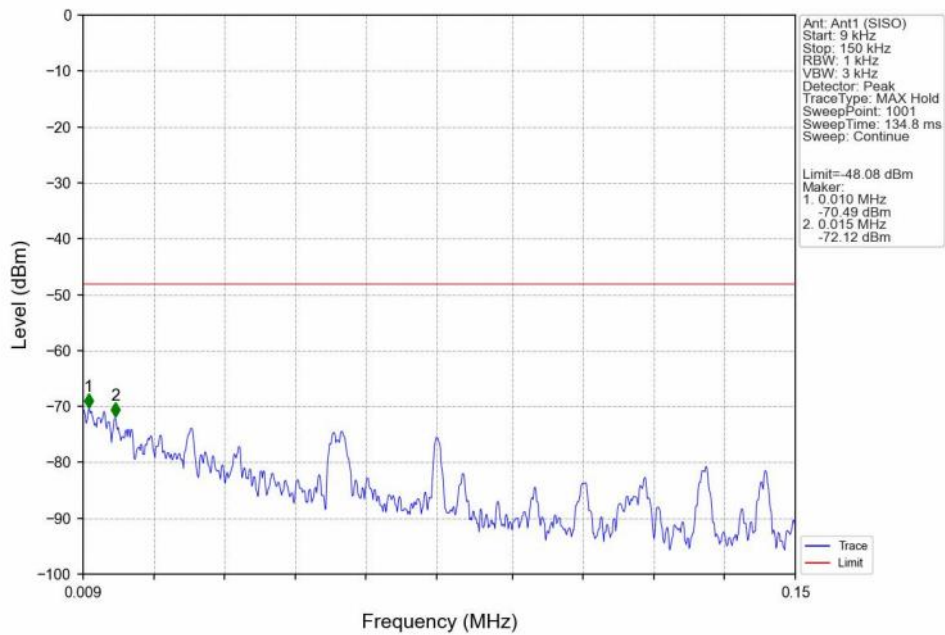
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



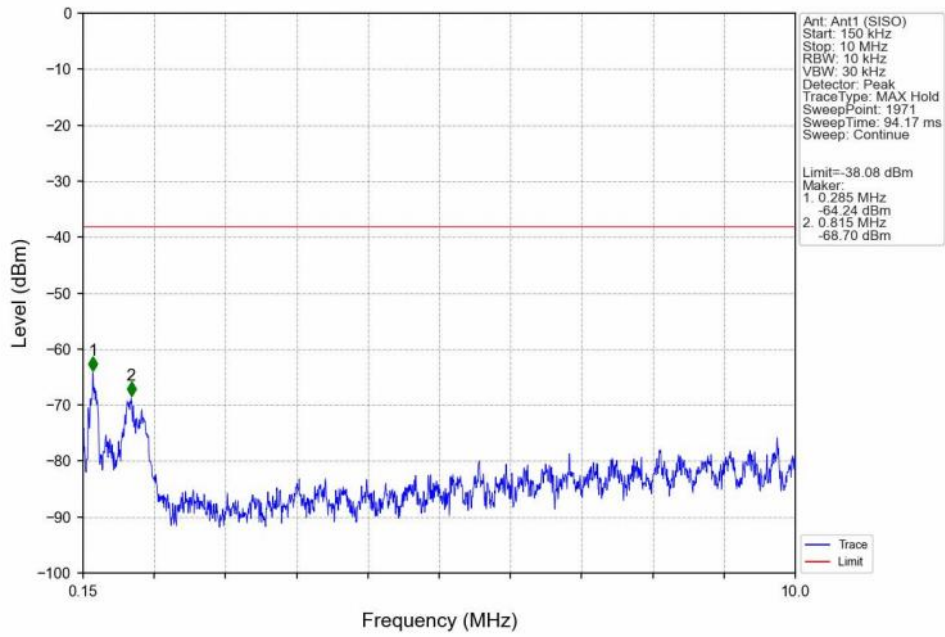
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



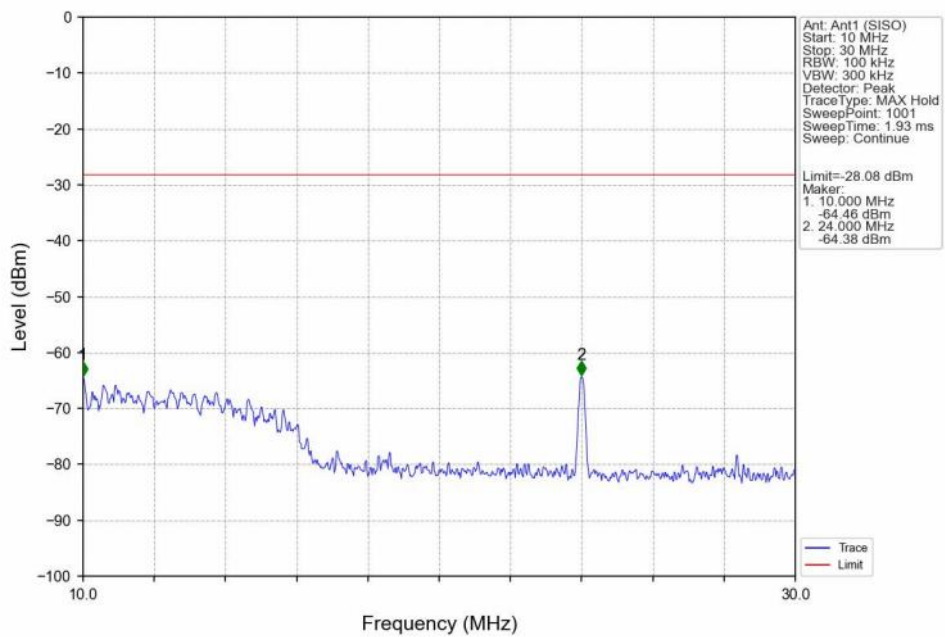
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



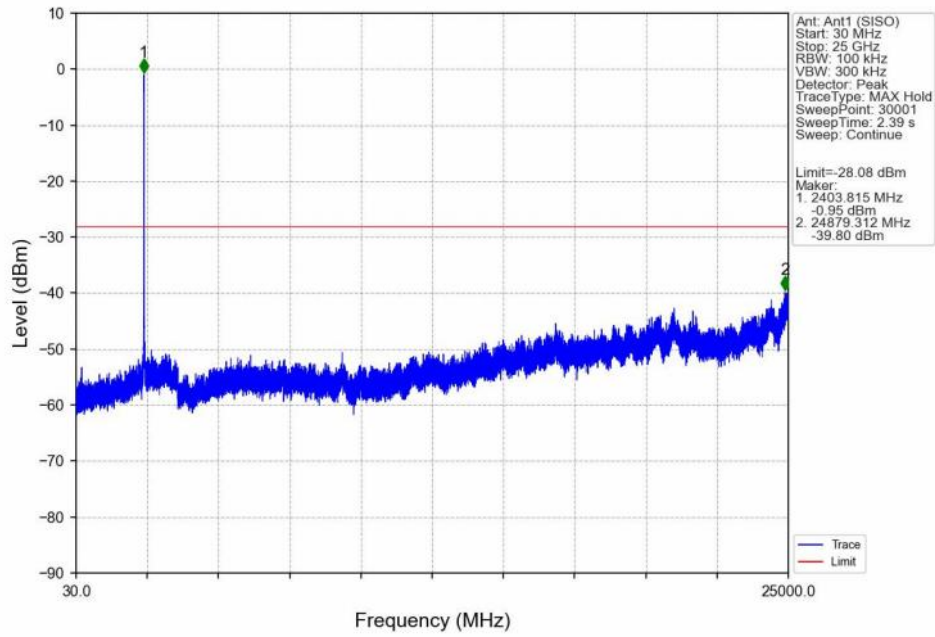
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



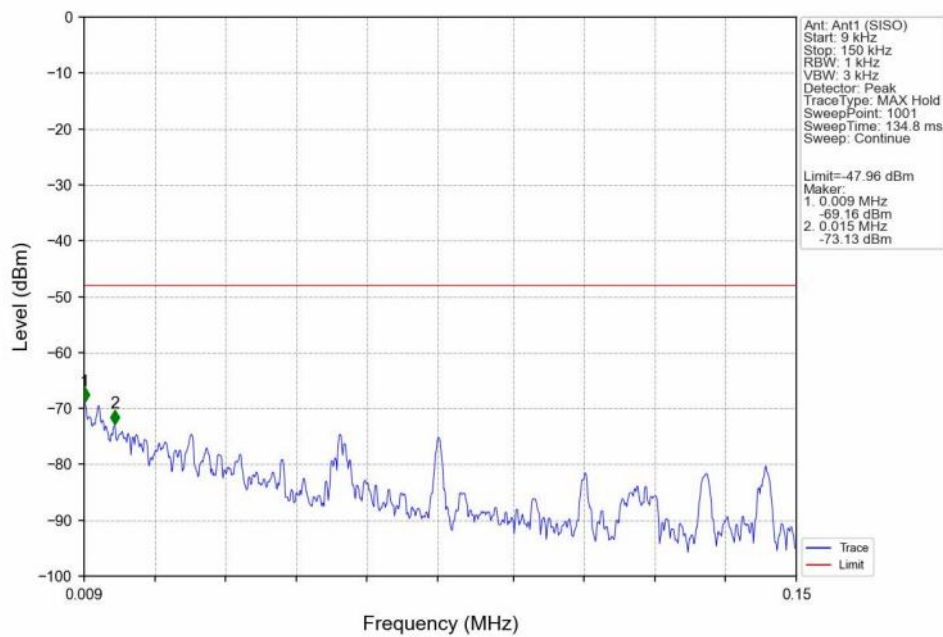
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



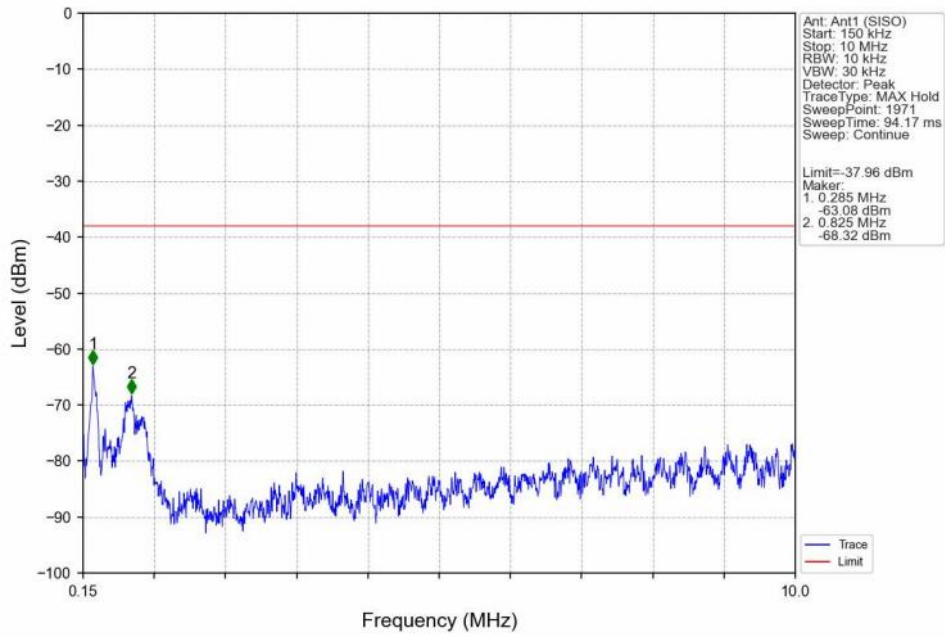
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



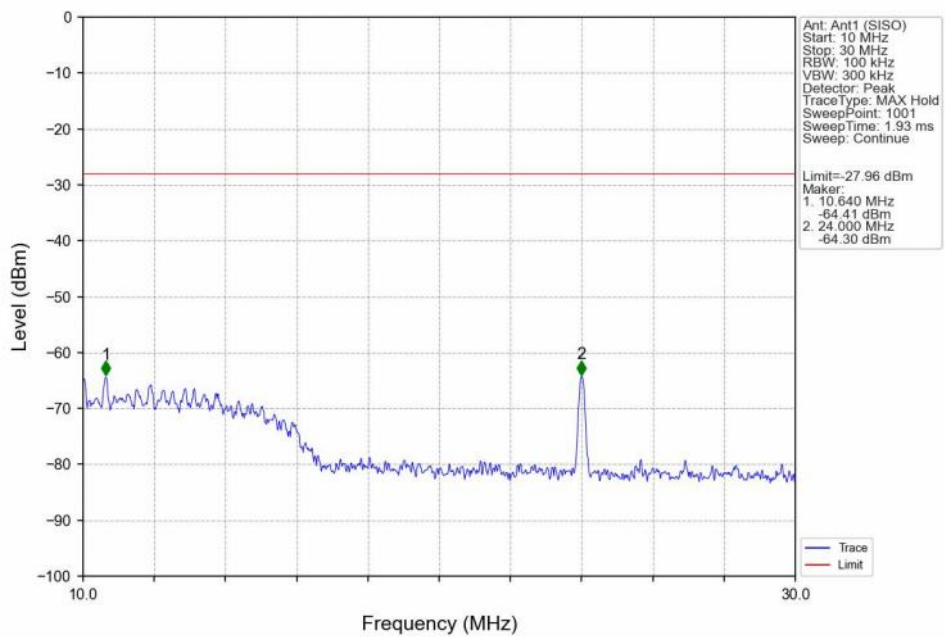
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



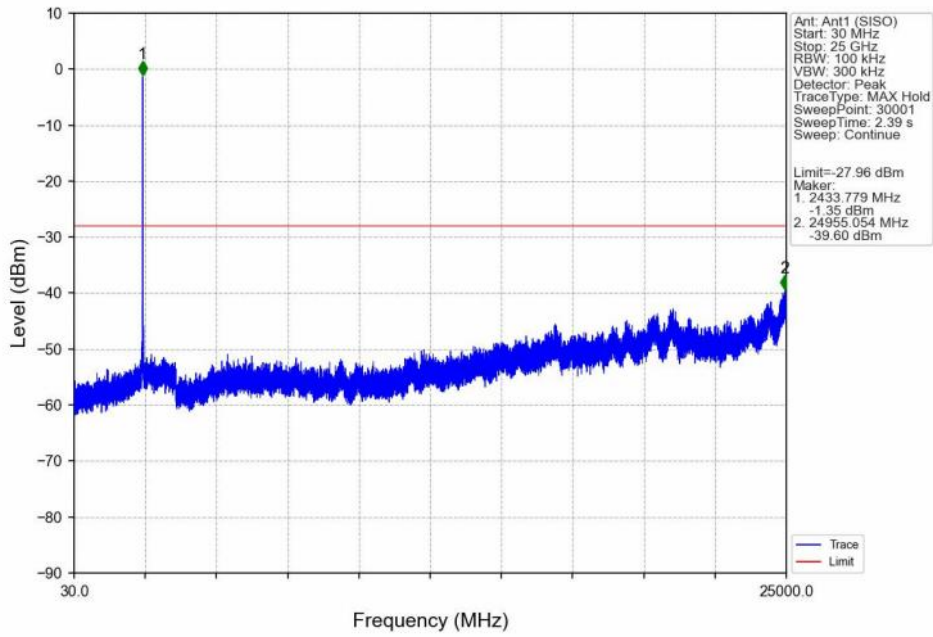
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



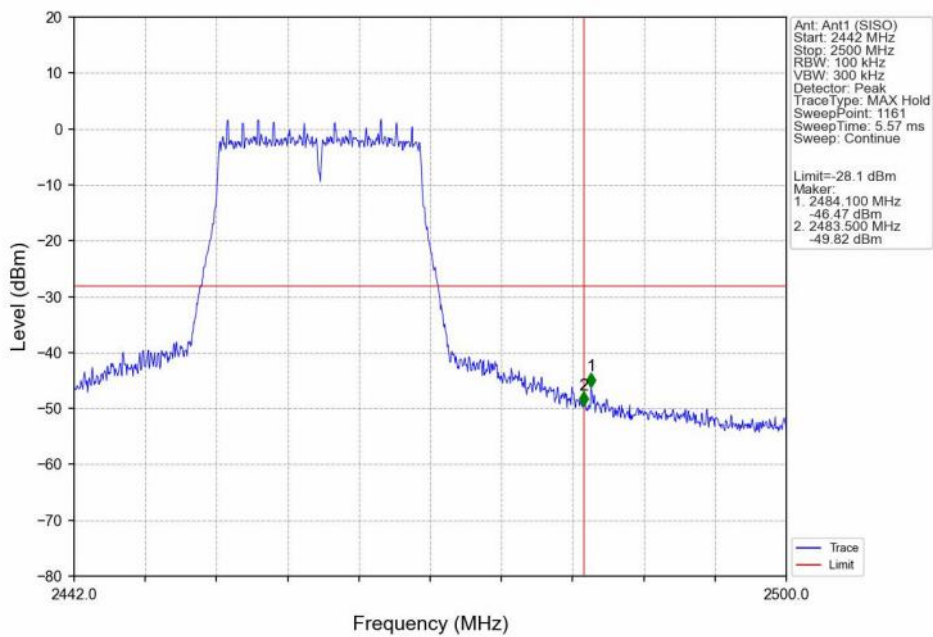
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



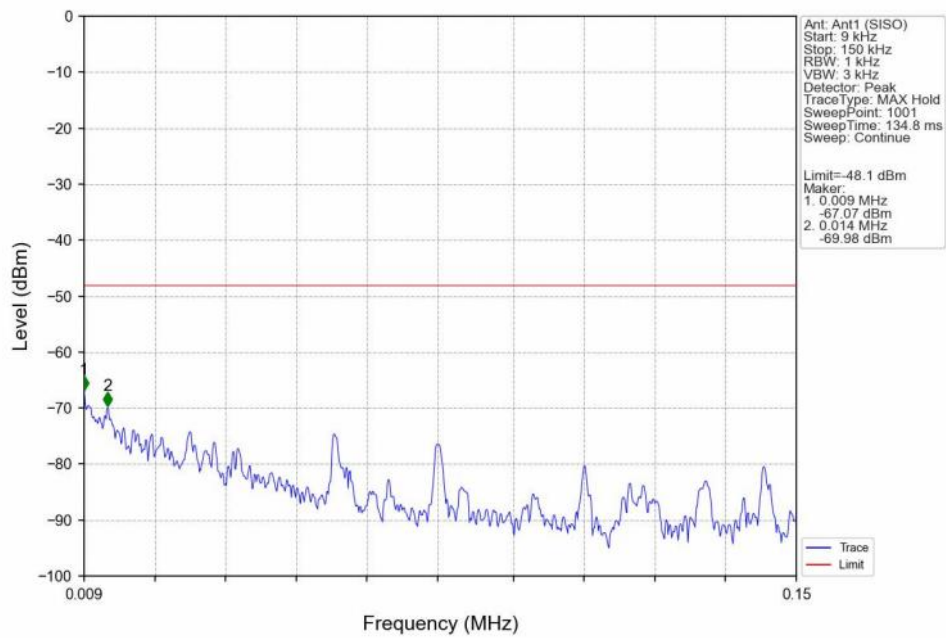
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



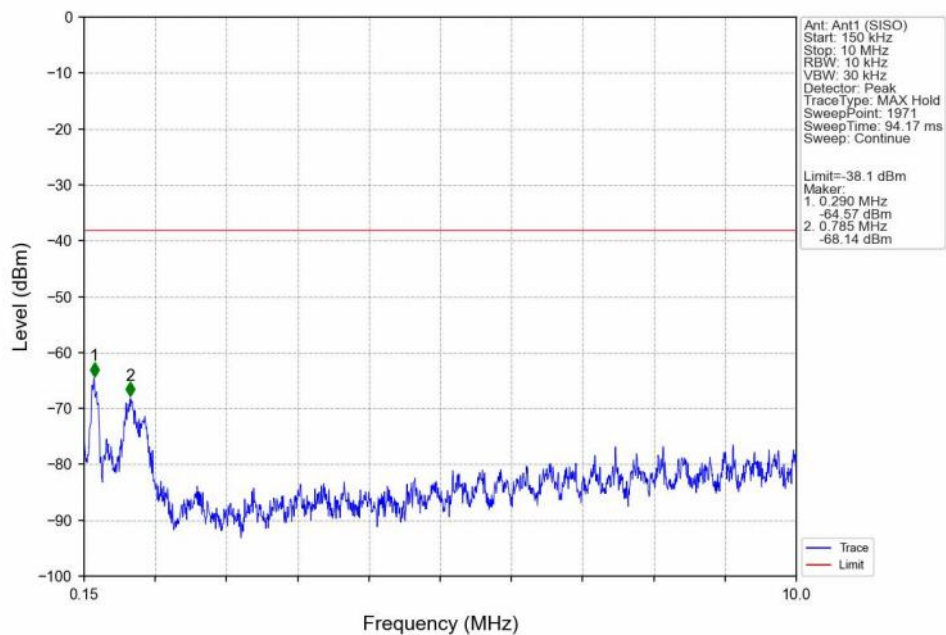
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



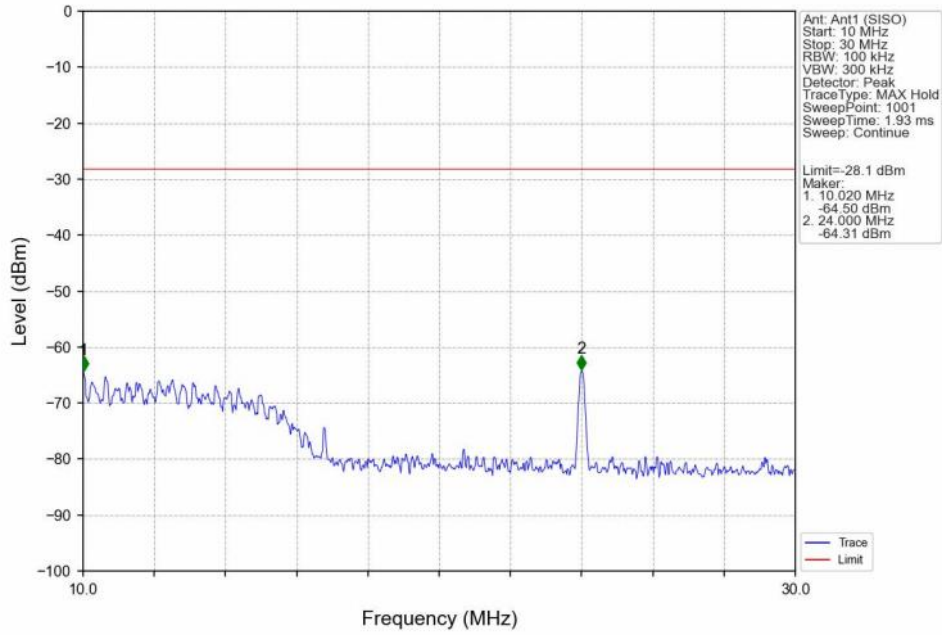
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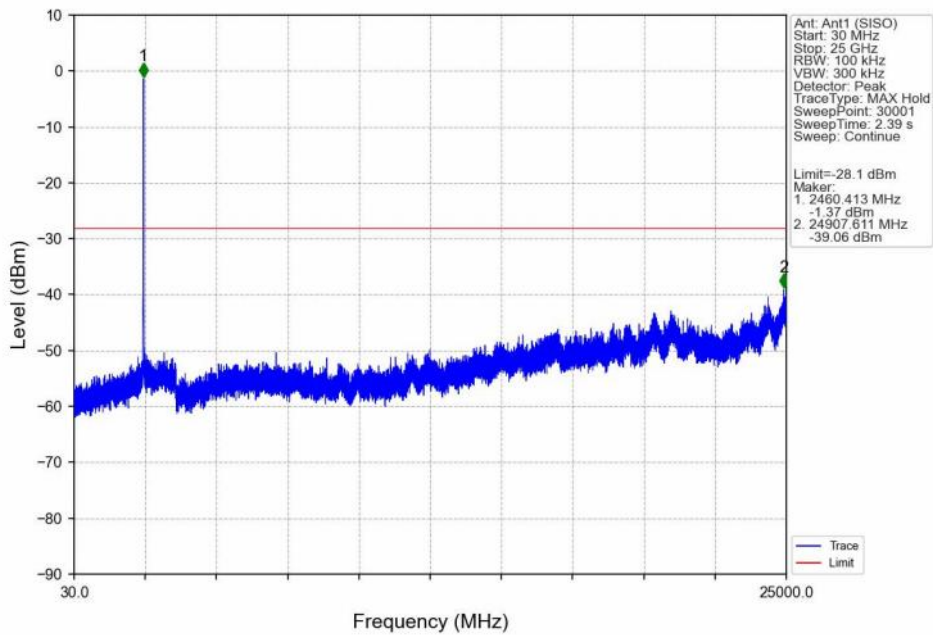
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



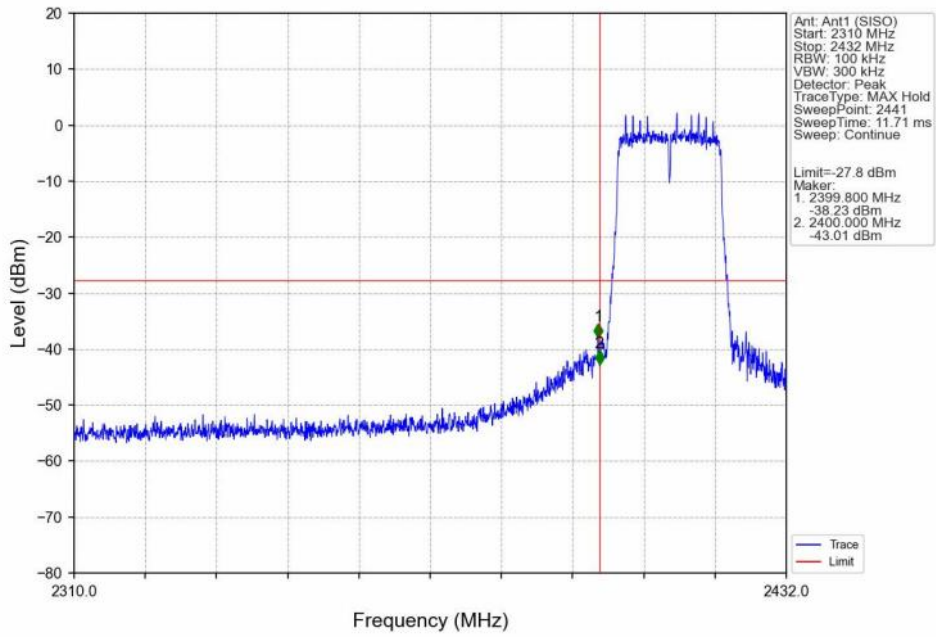
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



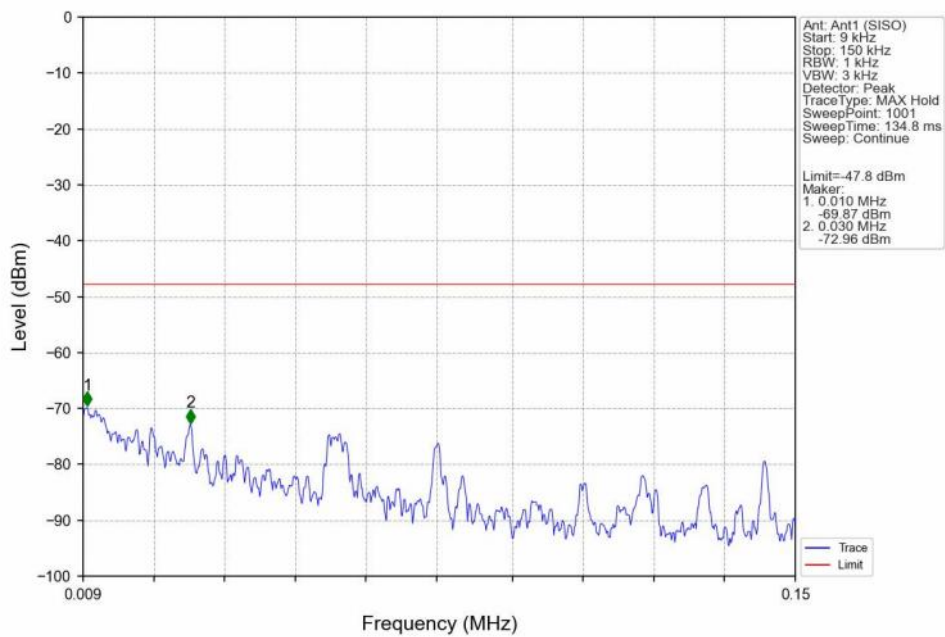
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



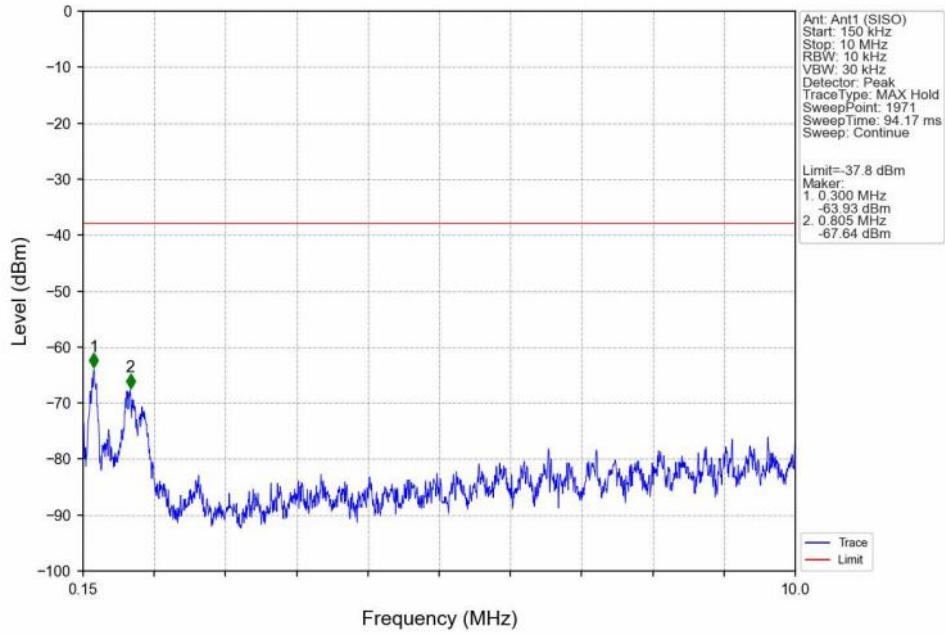
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



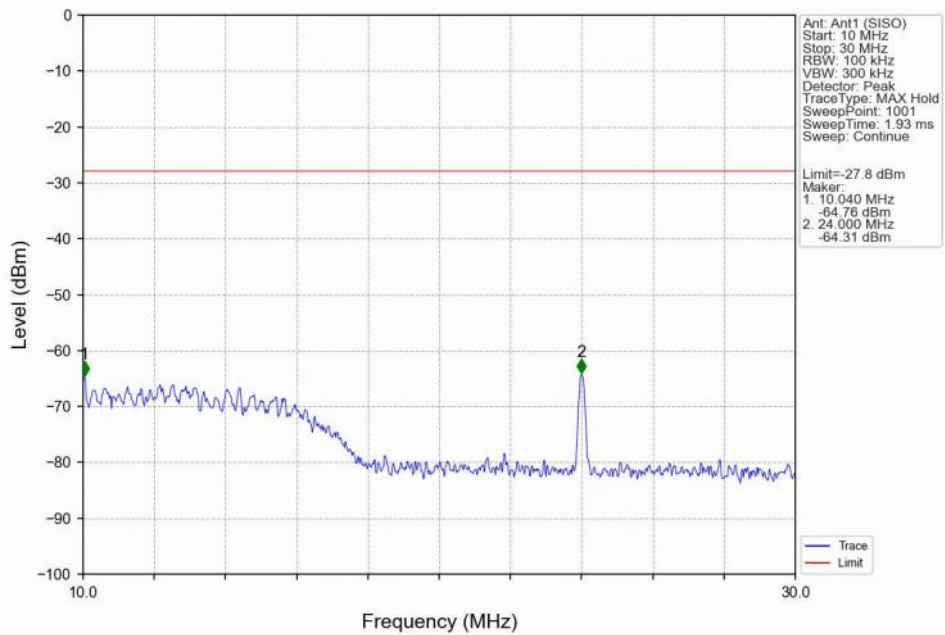
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



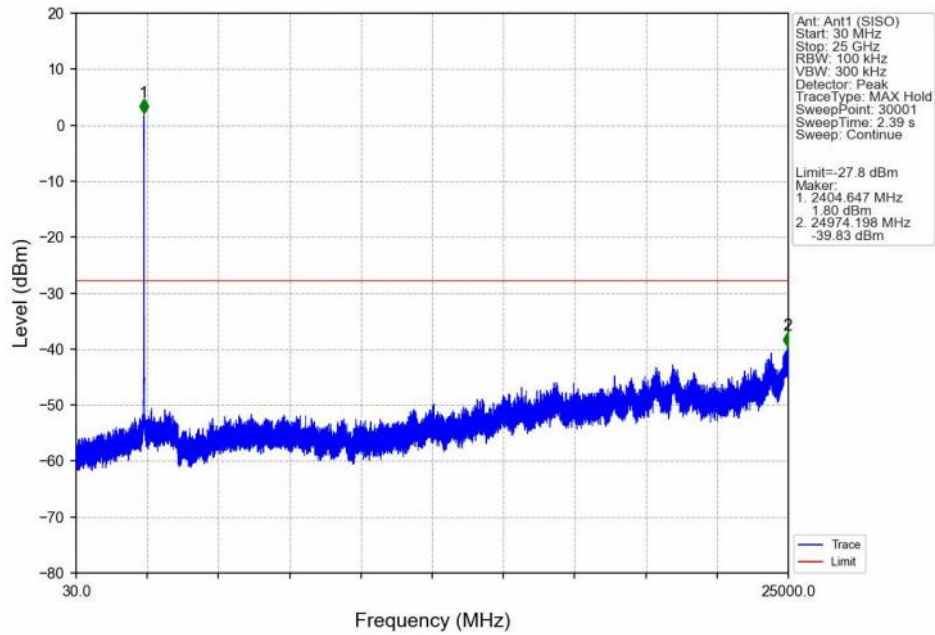
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



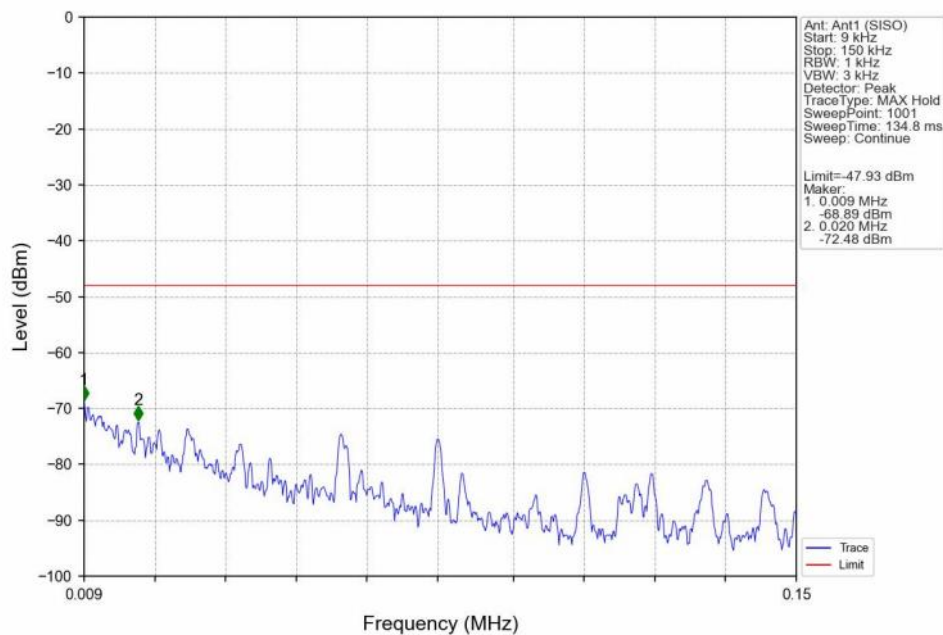
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



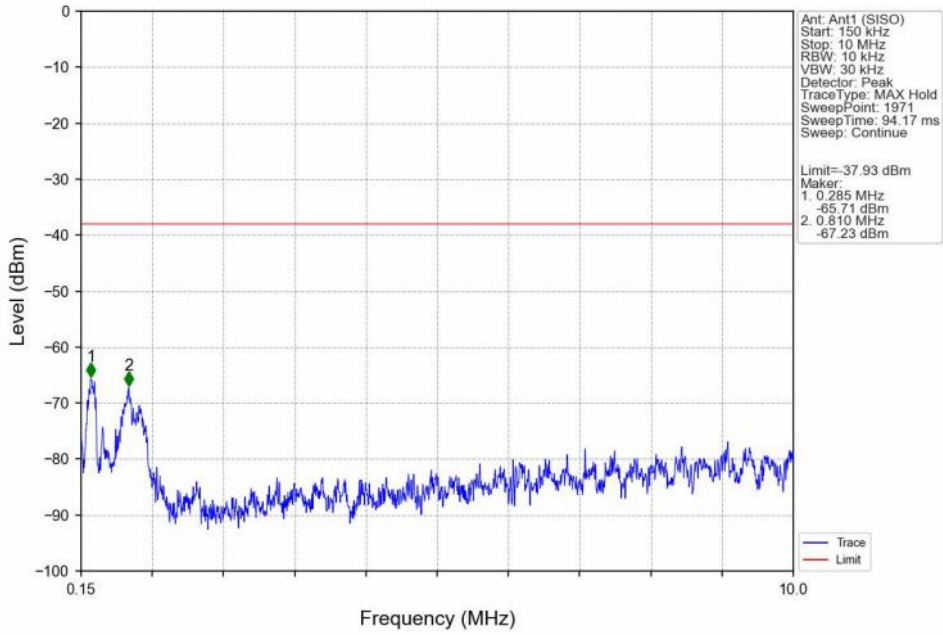
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



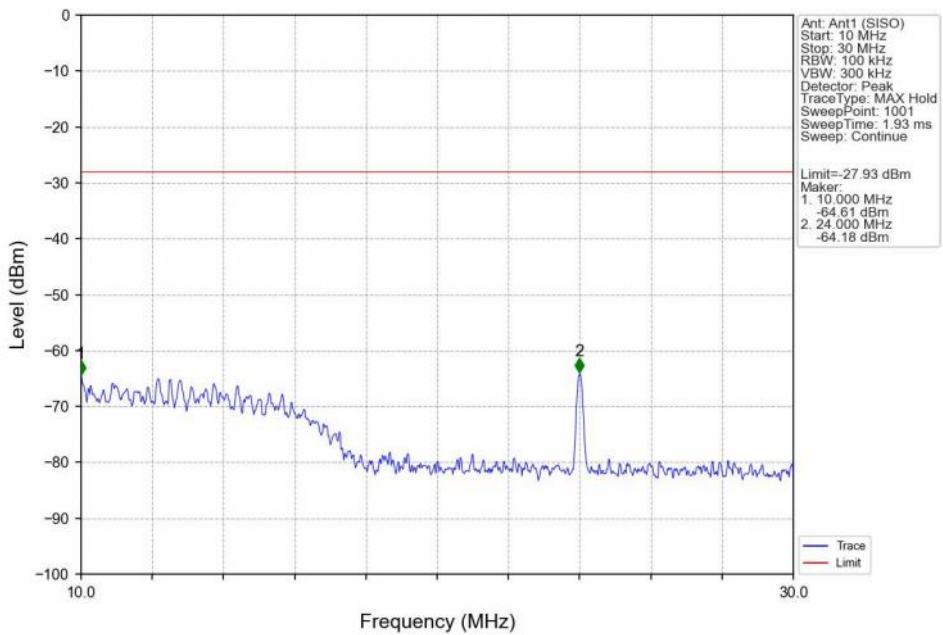
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



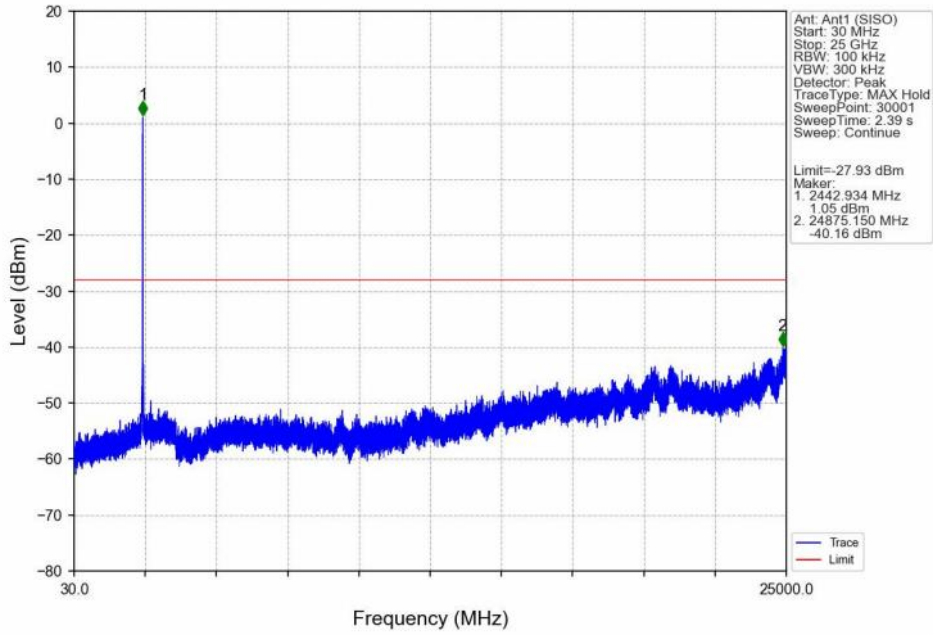
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



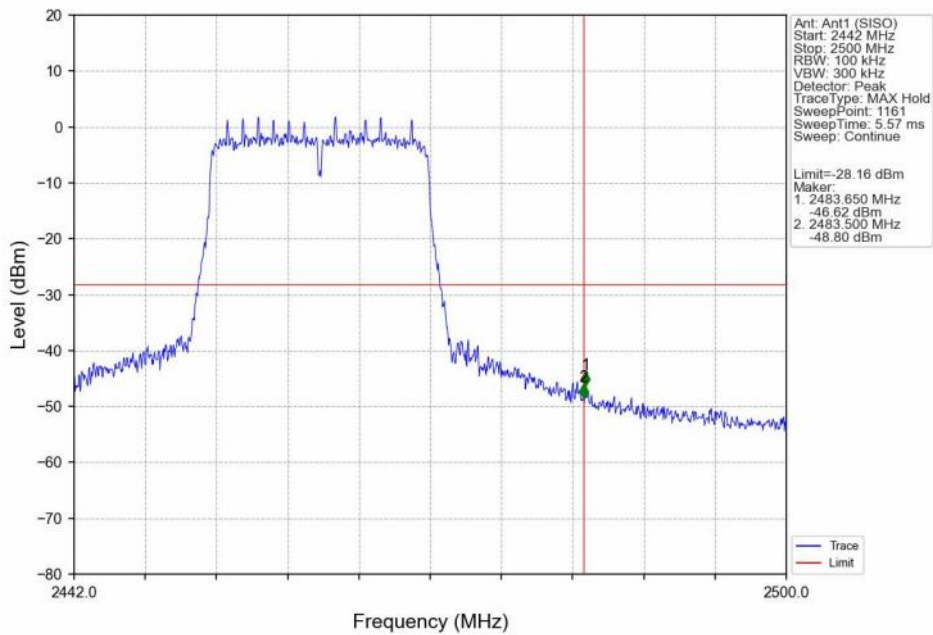
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



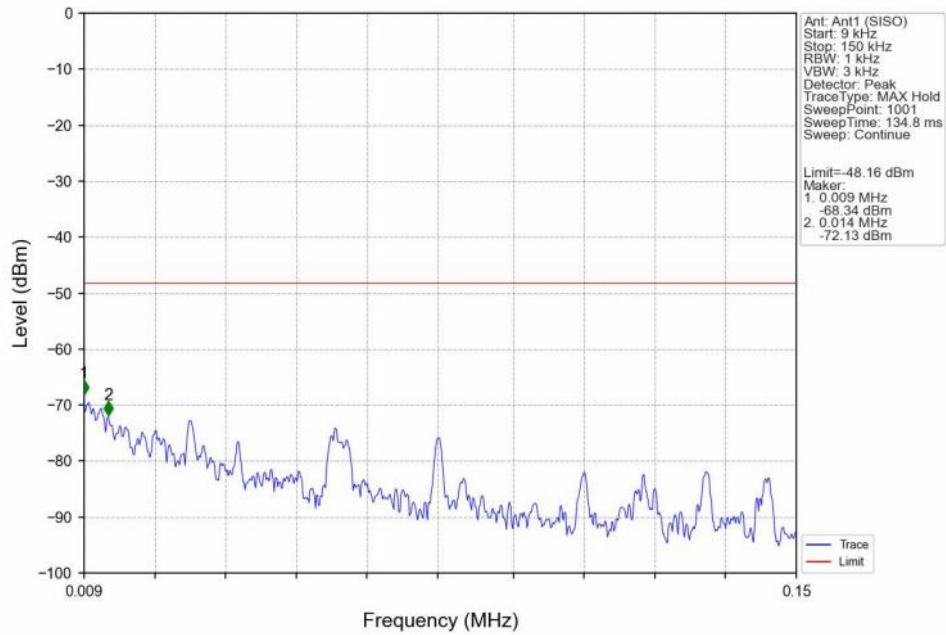
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



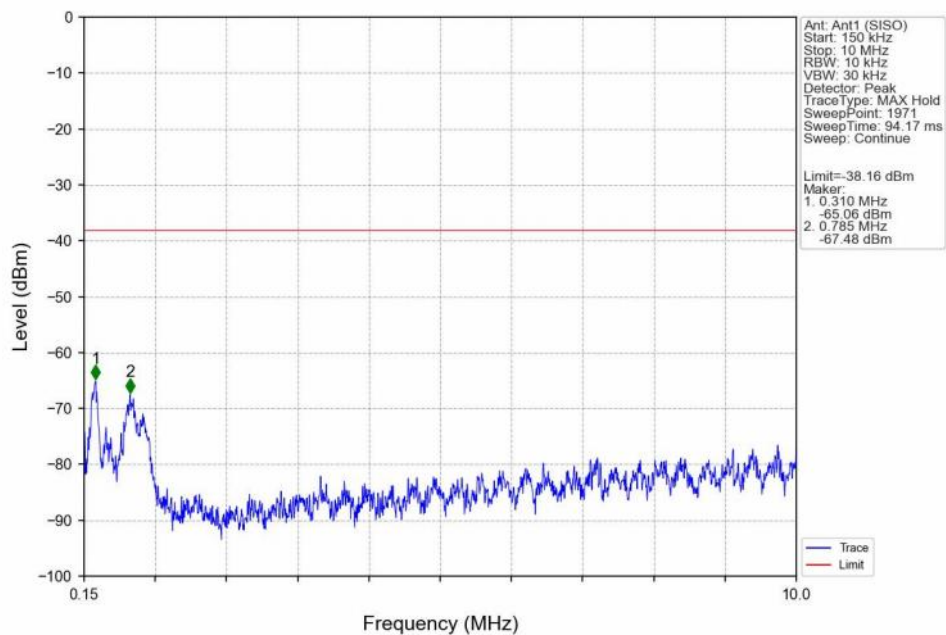
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



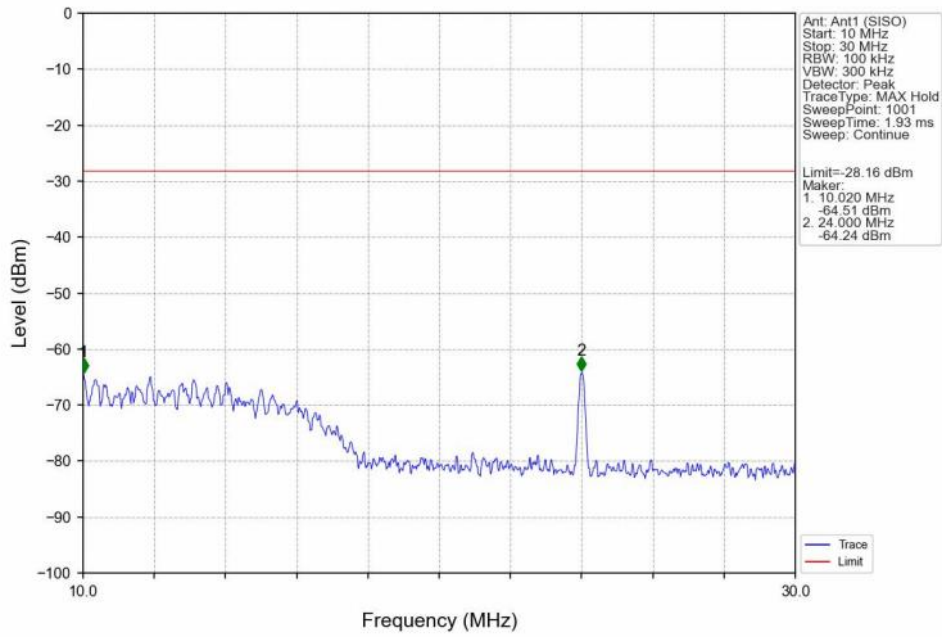
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



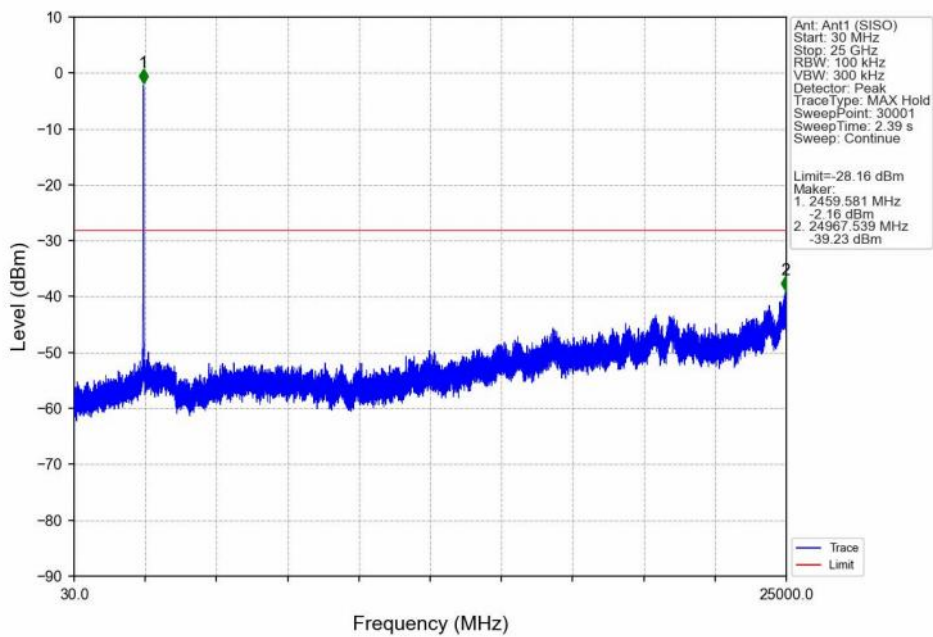
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0294	14.68



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