

TEST REPORT

Report No.: 8427EU010713W2

Applicant: Woan Technology (Shenzhen) Co., Ltd.

Address: Room 1101, Qiancheng Commercial Center, No. 5
Haicheng Road, Mabu Community, Xixiang Sub-district,
Bao'an District, Shenzhen, Guangdong, P.R.China,
518100

Product Name: SwitchBot Outdoor Pan/Tilt Cam 3K

Model No.: W9202100 (refer to clause 2.4)

Trademark: SwitchBot

FCC ID: 2AKXB-W9202100

Test Standard(s): 47 CFR Part 15.247

Test Result: Pass

Date of Receipt: Jan. 07, 2026

Test Date: Jan. 07, 2026 - Jan. 28, 2026

Date of Issue: Feb. 03, 2026

ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED



Prepared by:



Landon Qiu/ Engineer

Reviewed and Approved by:



Sally Zhang/ Manager

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2 General Information

2.1 Applicant Information

Applicant	Woan Technology (Shenzhen) Co., Ltd.
Address	Room 1101, Qiancheng Commercial Center, No. 5 Haicheng Road, Mabu Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, P.R.China, 518100

2.2 Manufacturer Information

Manufacturer	Woan Technology (Shenzhen) Co., Ltd.
Address	Room 1101, Qiancheng Commercial Center, No. 5 Haicheng Road, Mabu Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, P.R.China, 518100

2.3 Factory Information

Factory	Wo'an Technology (Shenzhen) Co., Ltd. Huizhou Branch
Address	Building 2, 2nd Floor, Baidi Zhigu Science and Technology Innovation Park, No.263 Chang'an Avenue, Shatian Town, Huiyang District, Huizhou City, Guangdong, China

2.4 General Description of E.U.T.

Product Name	SwitchBot Outdoor Pan/Tilt Cam 3K
Model No. Under Test	W9202100
List Model No.	W9202101, W9202102, W9202103, W9202104, W9202105
Description of Model differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in appearance color and model name. (this information provided by the customer)
Rating(s)	Input: 12V $\equiv$ 2A (Adapter Input: 100-240V~, 50-60Hz, 1A; Output: 12.0V $\equiv$ 2.0A) Output: 5VDC, 1A
Adapter	Model No.: MX36W1-1202000U Input: 100-240V~, 50-60Hz, 1A Output: 12.0V $\equiv$ 2.0A Manufacturer: Guangdong Mingxin Power Technologies Co.,Ltd.
Product Type	☐ Mobile ☐ Portable ☒ Fix Location
Test Sample No.	8427EU010713W-1/2(Normal), 8427EU010713W-2/2(Engineering)
Hardware Version	V02
Software Version	V1.0.0.001
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.5 Technical Information of E.U.T.

Network and Wireless Connectivity	Bluetooth Low Energy (BLE) WiFi 2.4G: 802.11b, 802.11g, 802.11n(HT20)
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The requirement for the following technical information of the EUT was tested in this report:

Technology	WiFi 2.4G
Operation Mode	b, g, n(HT20)
Operating Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz;
Modulation Type	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20): OFDM (BPSK, QPSK, 16QAM, 64QAM).
Number of Channels	802.11b/g/n(HT20): 11 Channels;
Antenna Type	FPC Antenna
Antenna Gain(Peak)	2.39 dBi
Remark	The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.

All channels were listed on the following table:

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

3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

Test Items	Standard	Method	Requirement	Results
Antenna requirement	47 CFR Part 15.247	---	47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	ANSI C63.10-2020+Cor 1-2023 section 6.2	47 CFR 15.207(a)	Pass
6dB Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020+Cor 1-2023, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2020+Cor 1-2023 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2020+Cor 1-2023, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2020+Cor 1-2023 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2020+Cor 1-2023 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	ANSI C63.10-2020+Cor 1-2023 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	ANSI C63.10-2020+Cor 1-2023 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Note: (1) "N/A" denotes test is not applicable in this Test Report.				

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Designation Number	CN1368
Test Firm Registration Number	952583

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15°C to +35°C
Working Voltage of the EUT	NV (Normal Voltage)	120VAC, 60Hz for adapter

4.2 Test Equipment

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Test Software	Farad	EZ-EMC	EE-014	/	/
EMI Test Receiver	Rohde & Schwarz	ESCI	EE-005	2026-01-07	2027-01-06
L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	EE-004	2026-01-07	2027-01-06

6dB Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
MXA Signal Analyzer	Agilent	N9020A	EE-011	2026-01-07	2027-01-06
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2026-01-07	2027-01-06
MIMO Power Measurement Module	TSTPASS	TSPS 2023R	EE-016	2026-01-07	2027-01-06
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	EE-402	2025-02-14	2026-02-13
MXG RF Analog Signal Generator	Agilent	N5181A	EE-406	2025-02-14	2026-02-13
Power Meter	Anritsu	ML2495A	EE-416	2025-02-14	2026-02-13
Constant Temperature Humidity Chamber	Guangxin	GXP-401	ES-002	2025-07-29	2026-07-28
RF Test Software	TSTPASS	TS32893 V2.0	EE-017	/	/

Band edge emissions (Radiated)					
Emissions in frequency bands (above 1GHz)					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	EE-006	2026-01-07	2027-01-06
Double Ridged Horn Antenna	A-INFOMW	LB-10180-NF	EE-008	2026-01-11	2029-01-10
Pre-amplifier	Agilent	8449B	EE-010	2026-01-07	2027-01-06
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2026-01-07	2027-01-06
DRG Horn Antenna	SCHWARZBECK	BBHA 9170	EE-410	2025-02-14	2026-02-13
Pre-amplifier	SKET	LNPA-1840-50	EE-411	2025-02-14	2026-02-13
Test Software	Farad	EZ-EMC	EE-015	/	/

Emissions in frequency bands (below 1GHz)					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	EE-006	2026-01-07	2027-01-06
Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	EE-007	2026-01-13	2029-01-12
Pre-amplifier	Agilent	8447D	EE-009	2026-01-07	2027-01-06
MXA Signal Analyzer	Agilent	N9020A	EE-011	2026-01-07	2027-01-06
Test Software	Farad	EZ-EMC	EE-015	/	/

4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
1	Adapter	refer to clause 2.4	refer to clause 2.4	--

4.4 Test Mode

No.	Test Modes	Description
TM1	802.11b Mode	Keep the EUT in 802.11b transmitting mode at lowest, middle and highest channel.
TM2	802.11g Mode	Keep the EUT in 802.11g transmitting mode at lowest, middle and highest channel.
TM3	802.11n(HT20) Mode	Keep the EUT in 802.11n(HT20) transmitting mode at lowest, middle and highest channel.

4.5 Description of Calculation

4.5.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

4.5.2 Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

4.6 Measurement Uncertainty

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 $k=2$.

Test Item	Measurement Uncertainty
Conducted Emission	2.64 dB
Occupied Channel Bandwidth	70 kHz
RF output power, conducted	1.04 dB
Power Spectral Density, conducted	0.91 dB
Unwanted Emissions, conducted	2.72 dB
Radiated Emission (1GHz- 18GHz)	Ur = 3.50 dB (Horizontal) Ur = 3.50 dB (Vertical)
Radiated Emission (9kHz- 30MHz)	Ur = 2.50 dB
Radiated Emission (30MHz- 1GHz)	Ur = 2.70 dB (Horizontal) Ur = 2.70 dB (Vertical)
Radiated Emission (18GHz- 40GHz)	Ur = 5.15 dB (Horizontal) Ur = 5.24 dB (Vertical)

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Condition

None

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

5.1.1 Test Specification

Test Requirement:	Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.
Test Method:	---

5.1.2 Test Data

PASS.

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

6 Radio Spectrum Matter Test Results (RF)

6.1 Conducted Emission at AC power line

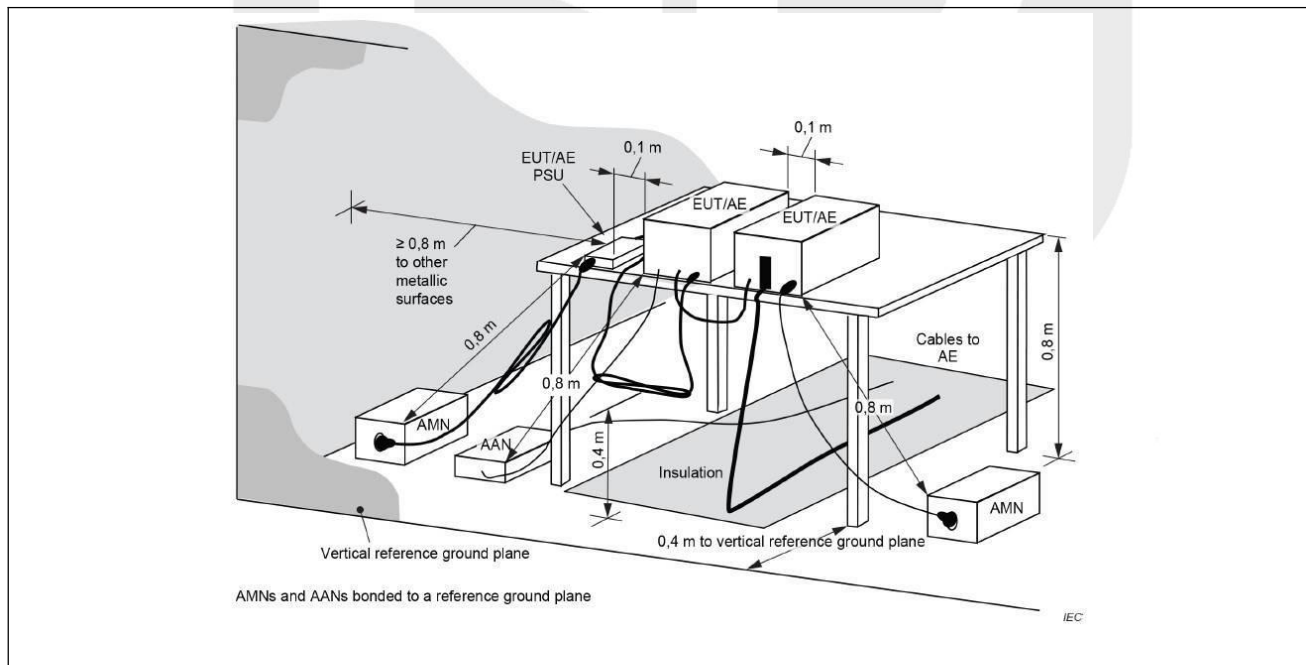
6.1.1 Test Specification

Test Requirement:	Refer to 47 CFR 15.207(a), 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 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 Method:	ANSI C63.10-2020+Cor 1-2023 section 6.2		
Procedure:	Refer to ANSI C63.10-2020+Cor 1-2023 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

6.1.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

6.1.3 Test Setup Diagram



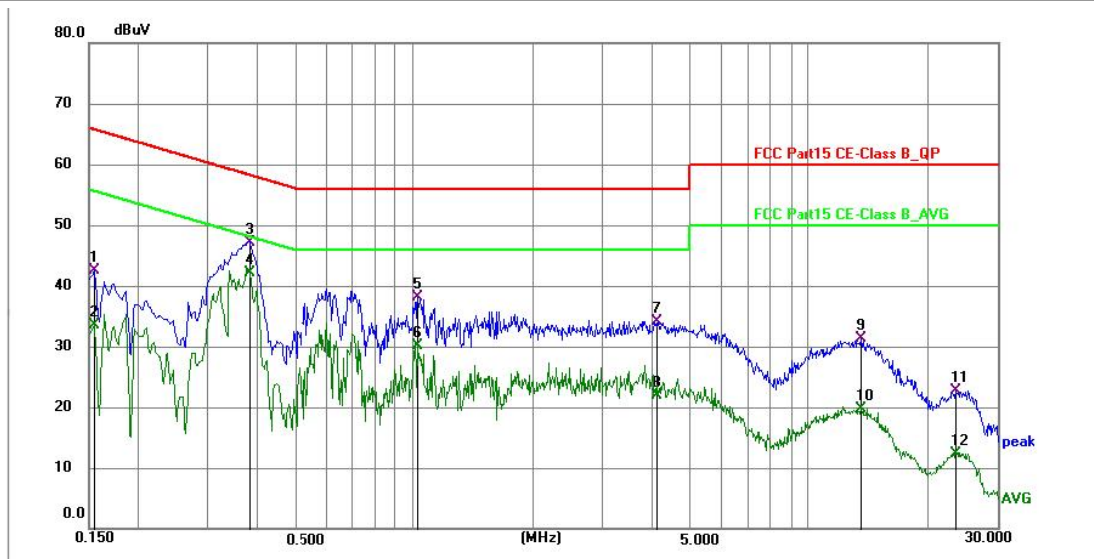
6.1.4 Test Data

PASS.

Only the worst case data was showed in the report, please to see the following pages.

Conducted Emission at AC power line Test Data

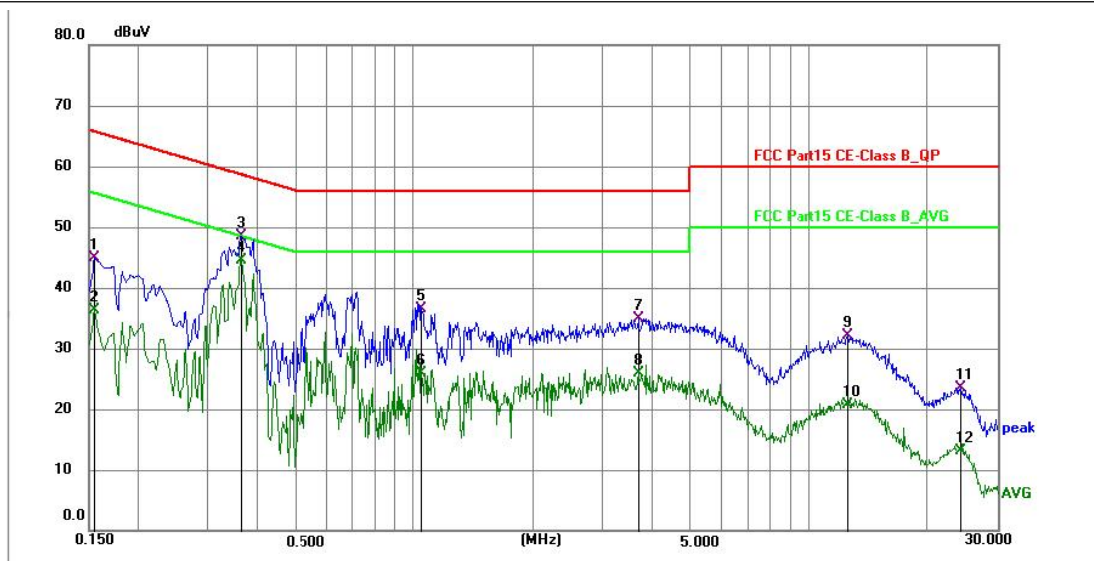
TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1545	32.45	9.96	42.41	65.75	-23.34	QP	P	
2	0.1545	23.61	9.96	33.57	55.75	-22.18	AVG	P	
3	0.3795	37.19	10.01	47.20	58.29	-11.09	QP	P	
4 *	0.3795	32.16	10.01	42.17	48.29	-6.12	AVG	P	
5	1.0230	27.99	10.04	38.03	56.00	-17.97	QP	P	
6	1.0230	20.09	10.04	30.13	46.00	-15.87	AVG	P	
7	4.1369	24.10	10.04	34.14	56.00	-21.86	QP	P	
8	4.1369	11.87	10.04	21.91	46.00	-24.09	AVG	P	
9	13.5780	21.26	9.97	31.23	60.00	-28.77	QP	P	
10	13.5780	9.69	9.97	19.66	50.00	-30.34	AVG	P	
11	23.5185	12.64	10.15	22.79	60.00	-37.21	QP	P	
12	23.5185	2.20	10.15	12.35	50.00	-37.65	AVG	P	

Conducted Emission at AC power line Test Data

TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1545	34.84	9.98	44.82	65.75	-20.93	QP	P	
2	0.1545	26.41	9.98	36.39	55.75	-19.36	AVG	P	
3	0.3615	38.42	10.04	48.46	58.69	-10.23	QP	P	
4 *	0.3615	34.41	10.04	44.45	48.69	-4.24	AVG	P	
5	1.0455	26.35	10.06	36.41	56.00	-19.59	QP	P	
6	1.0455	15.81	10.06	25.87	46.00	-20.13	AVG	P	
7	3.6915	24.83	10.04	34.87	56.00	-21.13	QP	P	
8	3.6915	15.77	10.04	25.81	46.00	-20.19	AVG	P	
9	12.5250	22.02	10.00	32.02	60.00	-27.98	QP	P	
10	12.5250	10.68	10.00	20.68	50.00	-29.32	AVG	P	
11	24.2340	13.39	10.15	23.54	60.00	-36.46	QP	P	
12	24.2340	2.89	10.15	13.04	50.00	-36.96	AVG	P	

6.2 6dB Bandwidth

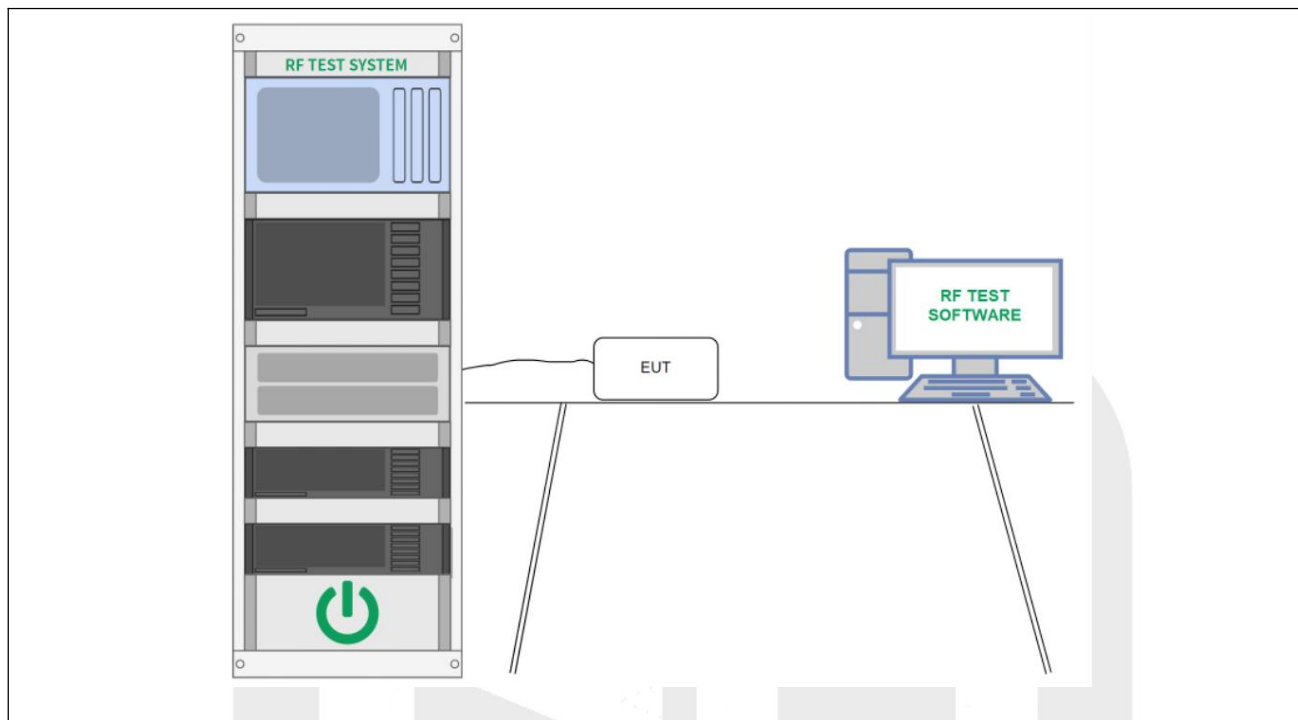
6.2.1 Test Specification

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(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.
Test Method:	ANSI C63.10-2020+Cor 1-2023, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

6.2.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

6.2.3 Test Setup Diagram



6.2.4 Test Data

PASS.

Please refer to Annex D for details.

6.3 Maximum Conducted Output Power

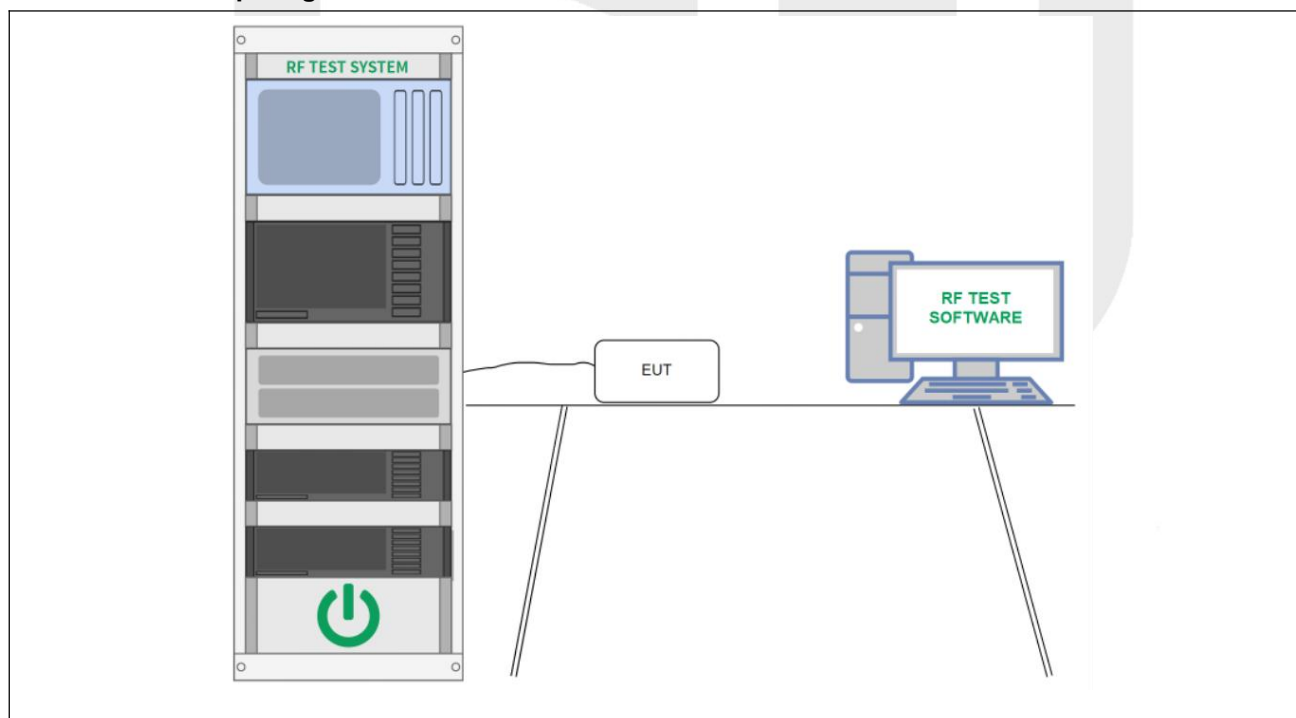
6.3.1 Test Specification

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), 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+Cor 1-2023 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020+Cor 1-2023, section 11.9.1 Maximum peak conducted output power

6.3.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

6.3.3 Test Setup Diagram



6.3.4 Test Data

PASS.

Please refer to Annex D for details.

6.4 Power Spectral Density

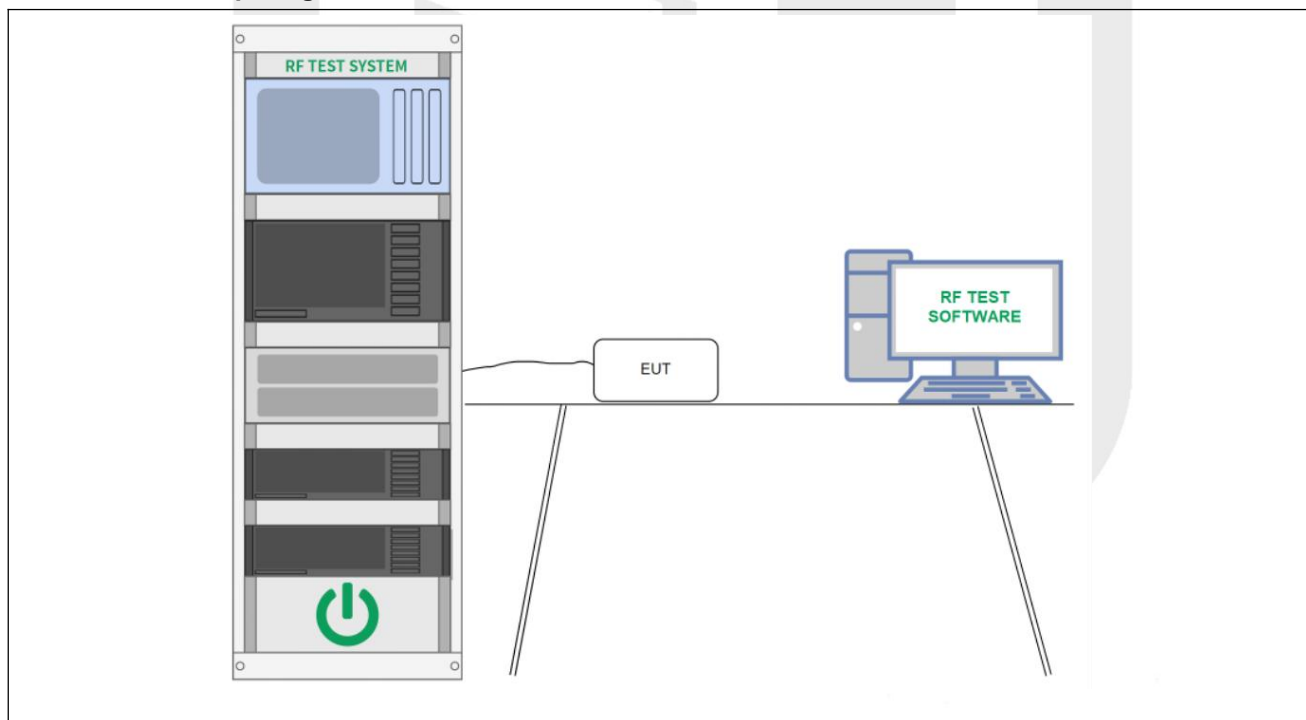
6.4.1 Test Specification

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), 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:	ANSI C63.10-2020+Cor 1-2023, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020+Cor 1-2023, section 11.10, Maximum power spectral density level in the fundamental emission

6.4.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

6.4.3 Test Setup Diagram



6.4.4 Test Data

PASS.

Please refer to Annex D for details.

6.5 Emissions in non-restricted frequency bands

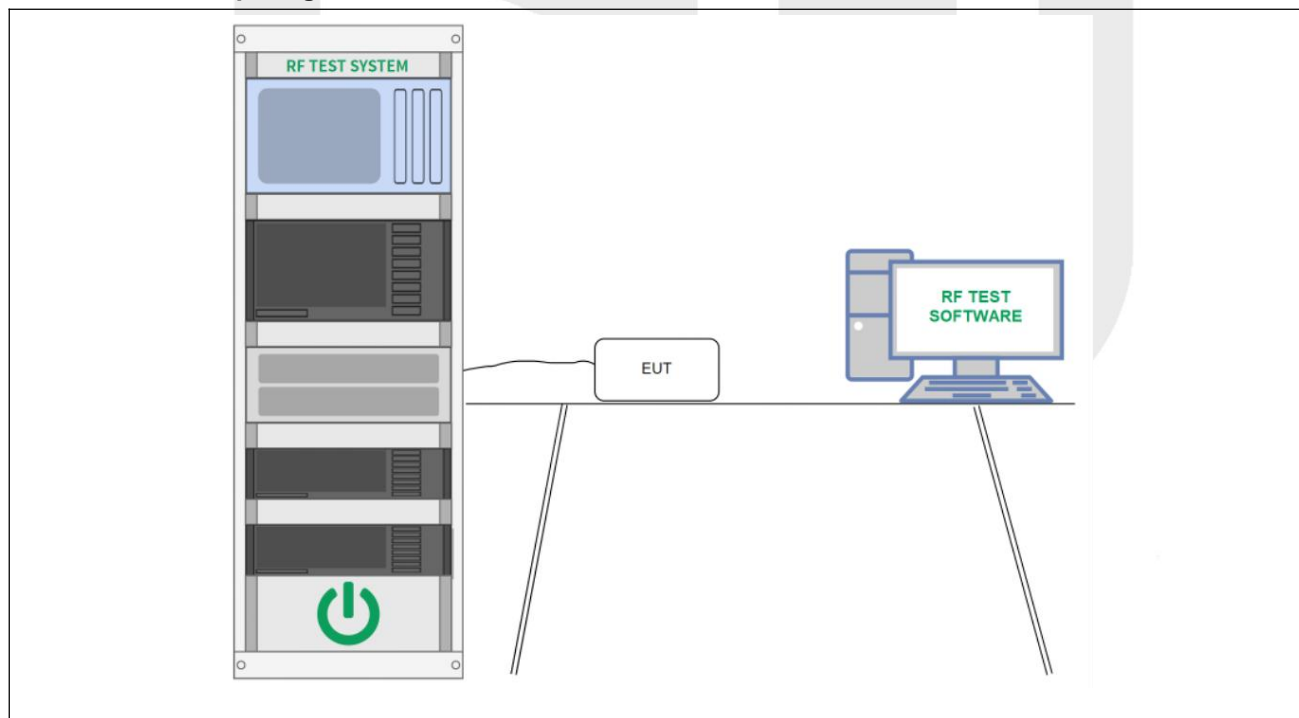
6.5.1 Test Specification

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), 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:	ANSI C63.10-2020+Cor 1-2023 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020+Cor 1-2023 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.5.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

6.5.3 Test Setup Diagram



6.5.4 Test Data

PASS.

Please refer to Annex D for details.

6.6 Band edge emissions (Radiated)

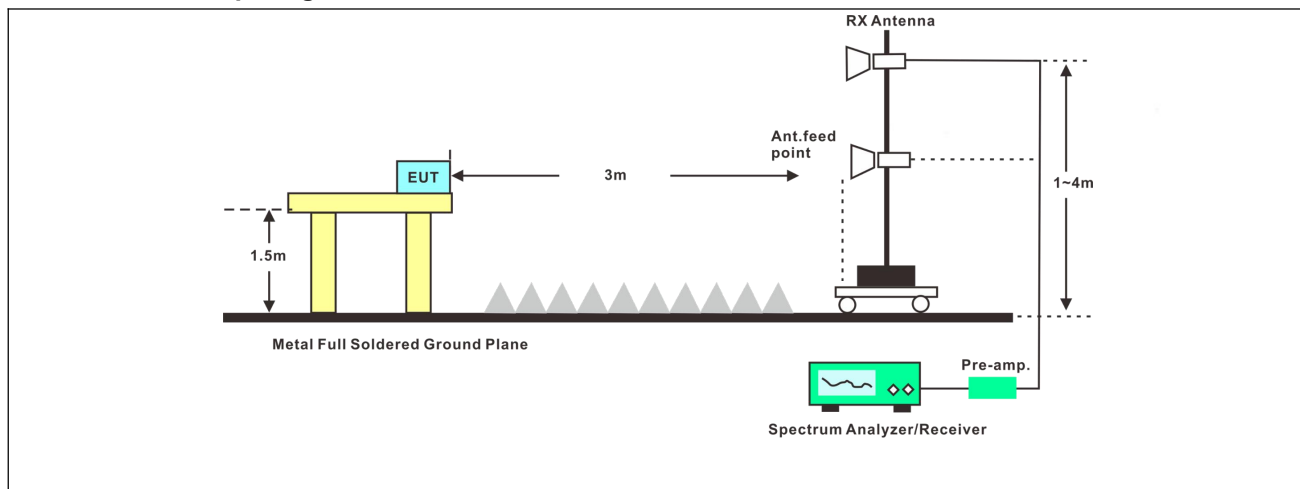
6.6.1 Test Specification

Test Requirement:	Refer to 47 CFR 15.247(d), 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 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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020+Cor 1-2023 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020+Cor 1-2023 section 6.10.5.2		

6.6.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

6.6.3 Test Setup Diagram



6.6.4 Test Data

PASS.

Please refer to the following pages.



Band Edge Emissions (Restricted frequency bands):

Test Mode: 802.11b					CH Low: 2412 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	2310.00	45.31	-2.81	42.50	74.00	-31.50	PK	PASS
H	2390.00	47.58	-2.69	44.89	74.00	-29.11	PK	PASS
H	**2400.00	60.35	-2.68	57.67	74.00	-16.33	PK	PASS
V	2310.00	45.07	-2.81	42.26	74.00	-31.74	PK	PASS
V	2390.00	45.48	-2.69	42.79	74.00	-31.21	PK	PASS
V	**2400.00	63.29	-2.68	60.61	74.00	-13.39	PK	PASS
H	2310.00	32.23	-2.81	29.42	54.00	-24.58	AV	PASS
H	2390.00	37.75	-2.69	35.06	54.00	-18.94	AV	PASS
H	**2400.00	46.60	-2.68	43.92	54.00	-10.08	AV	PASS
V	2310.00	33.44	-2.81	30.63	54.00	-23.37	AV	PASS
V	2390.00	36.54	-2.69	33.85	54.00	-20.15	AV	PASS
V	**2400.00	47.54	-2.68	44.86	54.00	-9.14	AV	PASS

Test Mode: 802.11b					CH High: 2462 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	**2483.50	48.08	-2.56	45.52	74.00	-28.48	PK	PASS
H	2500.00	50.25	-2.54	47.71	74.00	-26.29	PK	PASS
V	**2483.50	47.40	-2.56	44.84	74.00	-29.16	PK	PASS
V	2500.00	50.90	-2.54	48.36	74.00	-25.64	PK	PASS
H	**2483.50	36.27	-2.56	33.71	54.00	-20.29	AV	PASS
H	2500.00	41.05	-2.54	38.51	54.00	-15.49	AV	PASS
V	**2483.50	35.72	-2.56	33.16	54.00	-20.84	AV	PASS
V	2500.00	38.51	-2.54	35.97	54.00	-18.03	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

Band Edge Emissions (Restricted frequency bands):

Test Mode: 802.11g					CH Low: 2412 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	2310.00	42.80	-2.81	39.99	74.00	-34.01	PK	PASS
H	2390.00	46.04	-2.69	43.35	74.00	-30.65	PK	PASS
H	**2400.00	63.44	-2.68	60.76	74.00	-13.24	PK	PASS
V	2310.00	43.75	-2.81	40.94	74.00	-33.06	PK	PASS
V	2390.00	47.81	-2.69	45.12	74.00	-28.88	PK	PASS
V	**2400.00	61.74	-2.68	59.06	74.00	-14.94	PK	PASS
H	2310.00	33.13	-2.81	30.32	54.00	-23.68	AV	PASS
H	2390.00	35.82	-2.69	33.13	54.00	-20.87	AV	PASS
H	**2400.00	46.52	-2.68	43.84	54.00	-10.16	AV	PASS
V	2310.00	31.55	-2.81	28.74	54.00	-25.26	AV	PASS
V	2390.00	35.93	-2.69	33.24	54.00	-20.76	AV	PASS
V	**2400.00	46.42	-2.68	43.74	54.00	-10.26	AV	PASS

Test Mode: 802.11g					CH High: 2462 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	**2483.50	47.75	-2.56	45.19	74.00	-28.81	PK	PASS
H	2500.00	49.48	-2.54	46.94	74.00	-27.06	PK	PASS
V	**2483.50	45.69	-2.56	43.13	74.00	-30.87	PK	PASS
V	2500.00	51.30	-2.54	48.76	74.00	-25.24	PK	PASS
H	**2483.50	37.40	-2.56	34.84	54.00	-19.16	AV	PASS
H	2500.00	40.38	-2.54	37.84	54.00	-16.16	AV	PASS
V	**2483.50	35.32	-2.56	32.76	54.00	-21.24	AV	PASS
V	2500.00	41.83	-2.54	39.29	54.00	-14.71	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

Band Edge Emissions (Restricted frequency bands):

Test Mode: 802.11n(HT20)					CH Low: 2412 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	2310.00	45.53	-2.81	42.72	74.00	-31.28	PK	PASS
H	2390.00	46.19	-2.69	43.50	74.00	-30.50	PK	PASS
H	**2400.00	62.38	-2.68	59.70	74.00	-14.30	PK	PASS
V	2310.00	42.12	-2.81	39.31	74.00	-34.69	PK	PASS
V	2390.00	48.07	-2.69	45.38	74.00	-28.62	PK	PASS
V	**2400.00	62.81	-2.68	60.13	74.00	-13.87	PK	PASS
H	2310.00	32.87	-2.81	30.06	54.00	-23.94	AV	PASS
H	2390.00	37.21	-2.69	34.52	54.00	-19.48	AV	PASS
H	**2400.00	45.53	-2.68	42.85	54.00	-11.15	AV	PASS
V	2310.00	31.79	-2.81	28.98	54.00	-25.02	AV	PASS
V	2390.00	37.30	-2.69	34.61	54.00	-19.39	AV	PASS
V	**2400.00	46.64	-2.68	43.96	54.00	-10.04	AV	PASS

Test Mode: 802.11n(HT20)					CH High: 2462 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	**2483.50	45.42	-2.56	42.86	74.00	-31.14	PK	PASS
H	2500.00	48.45	-2.54	45.91	74.00	-28.09	PK	PASS
V	**2483.50	47.83	-2.56	45.27	74.00	-28.73	PK	PASS
V	2500.00	51.22	-2.54	48.68	74.00	-25.32	PK	PASS
H	**2483.50	37.09	-2.56	34.53	54.00	-19.47	AV	PASS
H	2500.00	41.73	-2.54	39.19	54.00	-14.81	AV	PASS
V	**2483.50	35.56	-2.56	33.00	54.00	-21.00	AV	PASS
V	2500.00	41.32	-2.54	38.78	54.00	-15.22	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

6.7 Emissions in frequency bands (below 1GHz)

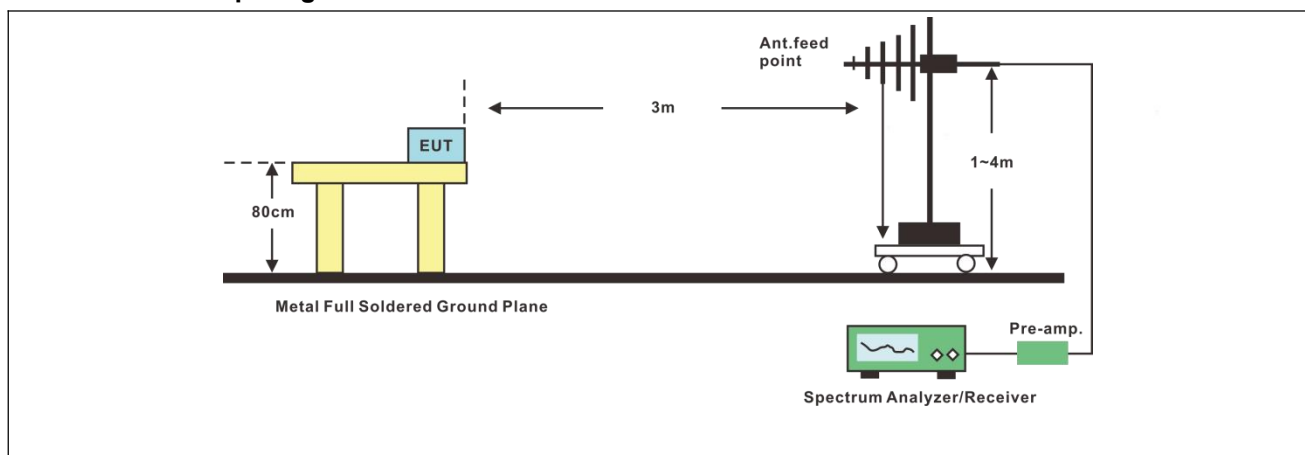
6.7.1 Test Specification

Test Requirement:	Refer to 47 CFR 15.247(d), 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 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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020+Cor 1-2023 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020+Cor 1-2023 section 6.6.4		

6.7.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

6.7.3 Test Setup Diagram



6.7.4 Test Data

PASS.

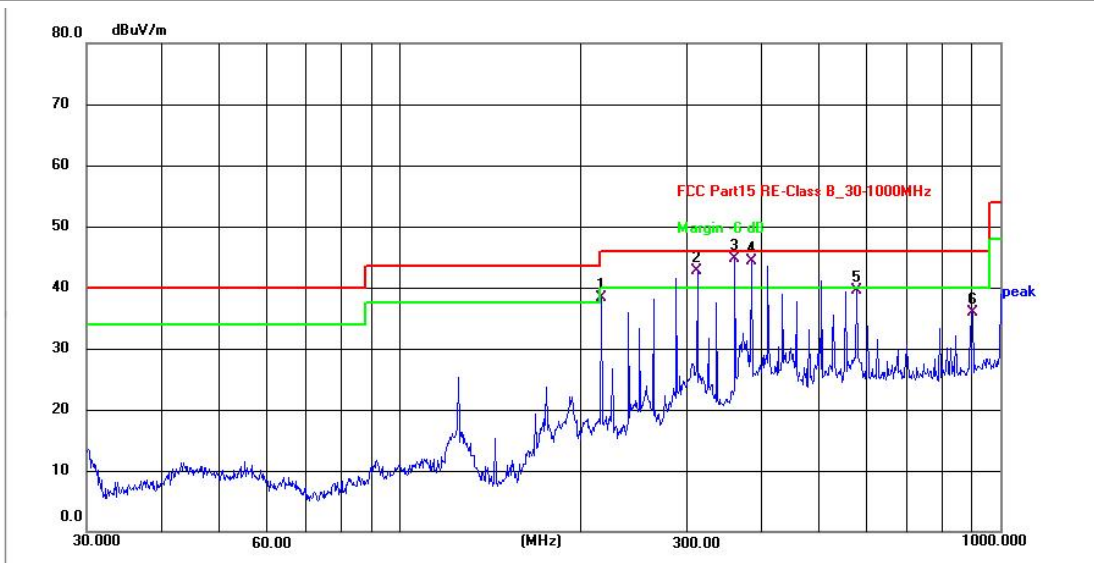
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, for 30MHz to 1000MHz, pre-scan all modulations, and found the 802.11b modulation Low channel which is the worst case, only the worst case is recorded in the report.



Emissions in frequency bands (below 1GHz) Test Data

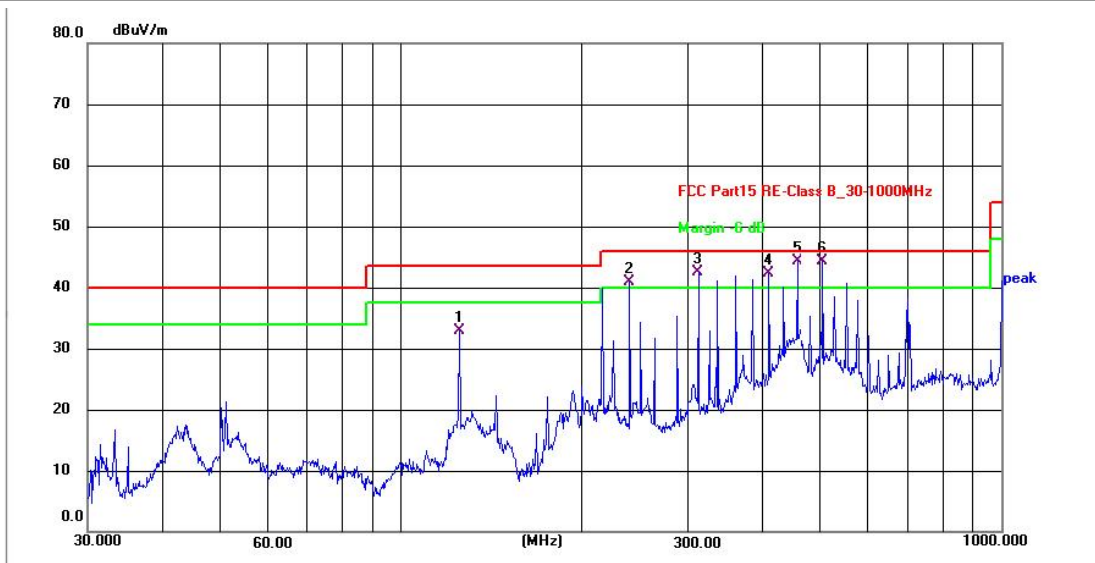
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	216.0240	56.19	-17.81	38.38	46.00	-7.62	QP	P	
2 !	312.1792	57.97	-15.26	42.71	46.00	-3.29	QP	P	
3 *	360.4476	58.61	-13.89	44.72	46.00	-1.28	QP	P	
4 !	383.9318	57.48	-13.25	44.23	46.00	-1.77	QP	P	
5	576.6443	48.20	-8.72	39.48	46.00	-6.52	QP	P	
6	900.1472	40.68	-4.69	35.99	46.00	-10.01	QP	P	

Emissions in frequency bands (below 1GHz) Test Data

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	125.0065	53.00	-20.17	32.83	43.50	-10.67	QP	P	
2 !	239.9873	58.20	-17.20	41.00	46.00	-5.00	QP	P	
3 !	312.1792	57.71	-15.23	42.48	46.00	-3.52	QP	P	
4 !	408.9460	54.98	-12.62	42.36	46.00	-3.64	QP	P	
5 *	455.9057	55.86	-11.54	44.32	46.00	-1.68	QP	P	
6 !	504.7062	54.65	-10.42	44.23	46.00	-1.77	QP	P	

6.8 Emissions in frequency bands (above 1GHz)

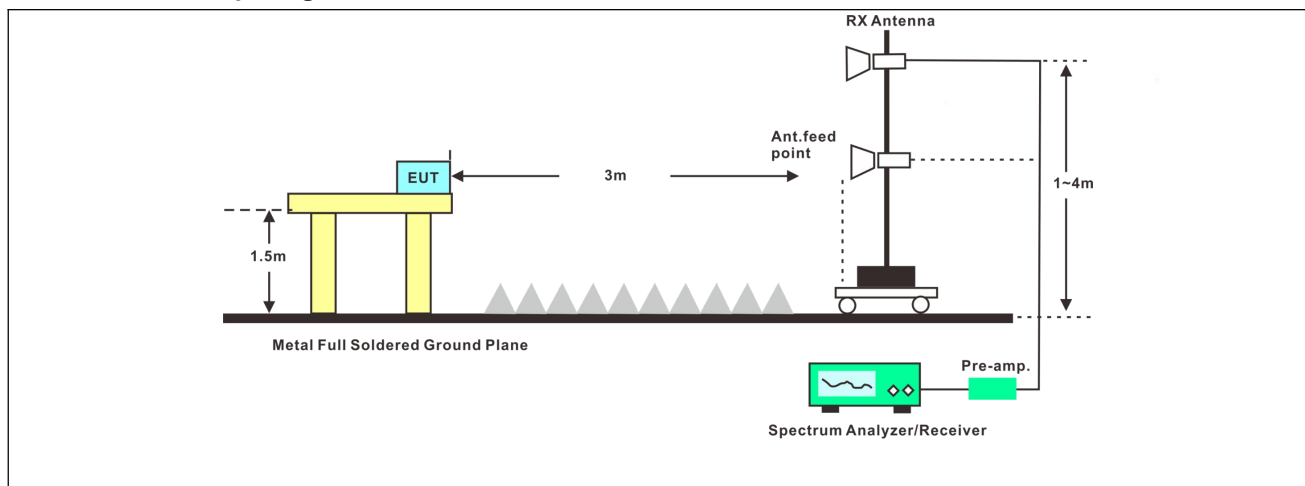
6.8.1 Test Specification

Test Requirement:	Refer to 47 CFR 15.247(d), 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 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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020+Cor 1-2023 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020+Cor 1-2023 section 6.6.4		

6.8.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

6.8.3 Test Setup Diagram



6.8.4 Test Data**PASS.**

During the test, for 1GHz- 25GHz, pre-scan all modulations, and found the 802.11n(HT20) modulation which is the worst case, only the worst case is recorded in the report.



Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 802.11n(HT20)					CH Low: 2412 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4824.98	42.74	4.74	47.48	74.00	-26.52	PK	PASS
V	7236.47	36.00	9.84	45.84	74.00	-28.17	PK	PASS
V	9648.38	29.12	13.18	42.30	74.00	-31.71	PK	PASS
V	12060.93	*	*	*	74.00	*	PK	PASS
V	14472.47	*	*	*	74.00	*	PK	PASS
V	16884.88	*	*	*	74.00	*	PK	PASS
H	4824.98	40.05	4.74	44.79	74.00	-29.21	PK	PASS
H	7236.63	33.15	9.84	42.99	74.00	-31.01	PK	PASS
H	9648.09	30.35	13.18	43.53	74.00	-30.47	PK	PASS
H	12060.94	*	*	*	74.00	*	PK	PASS
H	14472.71	*	*	*	74.00	*	PK	PASS
H	16884.33	*	*	*	74.00	*	PK	PASS
V	4824.16	32.70	4.74	37.44	54.00	-16.57	AV	PASS
V	7236.82	22.32	9.84	32.16	54.00	-21.84	AV	PASS
V	9648.34	17.93	13.18	31.11	54.00	-22.90	AV	PASS
V	12060.59	*	*	*	54.00	*	AV	PASS
V	14472.24	*	*	*	54.00	*	AV	PASS
V	16884.77	*	*	*	54.00	*	AV	PASS
H	4824.07	32.11	4.74	36.85	54.00	-17.15	AV	PASS
H	7236.63	24.66	9.84	34.50	54.00	-19.51	AV	PASS
H	9648.09	17.25	13.18	30.43	54.00	-23.58	AV	PASS
H	12060.94	*	*	*	54.00	*	AV	PASS
H	14472.71	*	*	*	54.00	*	AV	PASS
H	16884.33	*	*	*	54.00	*	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 802.11n(HT20)					CH Middle: 2437 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4874.16	42.78	4.90	47.68	74.00	-26.33	PK	PASS
V	7311.22	35.46	9.83	45.29	74.00	-28.72	PK	PASS
V	9748.54	29.11	13.21	42.32	74.00	-31.68	PK	PASS
V	12185.70	*	*	*	74.00	*	PK	PASS
V	14622.63	*	*	*	74.00	*	PK	PASS
V	17059.11	*	*	*	74.00	*	PK	PASS
H	4874.49	40.61	4.90	45.51	74.00	-28.50	PK	PASS
H	7311.15	34.38	9.83	44.21	74.00	-29.79	PK	PASS
H	9748.95	29.75	13.21	42.96	74.00	-31.05	PK	PASS
H	12185.44	*	*	*	74.00	*	PK	PASS
H	14622.22	*	*	*	74.00	*	PK	PASS
H	17059.76	*	*	*	74.00	*	PK	PASS
V	4874.78	30.89	4.90	35.79	54.00	-18.22	AV	PASS
V	7311.20	23.24	9.83	33.07	54.00	-20.93	AV	PASS
V	9748.57	18.47	13.21	31.68	54.00	-22.33	AV	PASS
V	12185.41	*	*	*	54.00	*	AV	PASS
V	14622.35	*	*	*	54.00	*	AV	PASS
V	17059.93	*	*	*	54.00	*	AV	PASS
H	4874.49	31.83	4.90	36.73	54.00	-17.28	AV	PASS
H	7311.15	23.64	9.83	33.47	54.00	-20.53	AV	PASS
H	9748.95	17.71	13.21	30.92	54.00	-23.09	AV	PASS
H	12185.44	*	*	*	54.00	*	AV	PASS
H	14622.22	*	*	*	54.00	*	AV	PASS
H	17059.76	*	*	*	54.00	*	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 802.11n(HT20)					CH High: 2462 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4924.89	40.23	5.05	45.28	74.00	-28.72	PK	PASS
V	7386.55	34.19	9.83	44.02	74.00	-29.99	PK	PASS
V	9848.55	29.28	13.24	42.52	74.00	-31.48	PK	PASS
V	12310.30	*	*	*	74.00	*	PK	PASS
V	14772.17	*	*	*	74.00	*	PK	PASS
V	17234.46	*	*	*	74.00	*	PK	PASS
H	4924.40	42.53	5.05	47.58	74.00	-26.43	PK	PASS
H	7386.28	35.77	9.83	45.60	74.00	-28.40	PK	PASS
H	9848.17	29.29	13.24	42.53	74.00	-31.48	PK	PASS
H	12310.19	*	*	*	74.00	*	PK	PASS
H	14772.71	*	*	*	74.00	*	PK	PASS
H	17234.27	*	*	*	74.00	*	PK	PASS
V	4924.68	32.15	5.05	37.20	54.00	-16.80	AV	PASS
V	7386.89	22.18	9.83	32.01	54.00	-22.00	AV	PASS
V	9848.80	18.00	13.24	31.24	54.00	-22.77	AV	PASS
V	12310.54	*	*	*	54.00	*	AV	PASS
V	14772.27	*	*	*	54.00	*	AV	PASS
V	17234.87	*	*	*	54.00	*	AV	PASS
H	4924.40	30.05	5.05	35.10	54.00	-18.90	AV	PASS
H	7386.28	24.71	9.83	34.54	54.00	-19.47	AV	PASS
H	9848.17	19.43	13.24	32.67	54.00	-21.34	AV	PASS
H	12310.19	*	*	*	54.00	*	AV	PASS
H	14772.71	*	*	*	54.00	*	AV	PASS
H	17234.27	*	*	*	54.00	*	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

ANNEX A TEST SETUP PHOTOS

Please refer to the document "8427EU010713W1-ANNEX A.PDF"

ANNEX B EXTERNAL PHOTOS

Please refer to the document "8427EU010713W1-ANNEX B.PDF"

ANNEX C INTERNAL PHOTOS

Please refer to the document "8427EU010713W1-ANNEX C.PDF"



ANNEX D TEST DATA

1. Duty Cycle

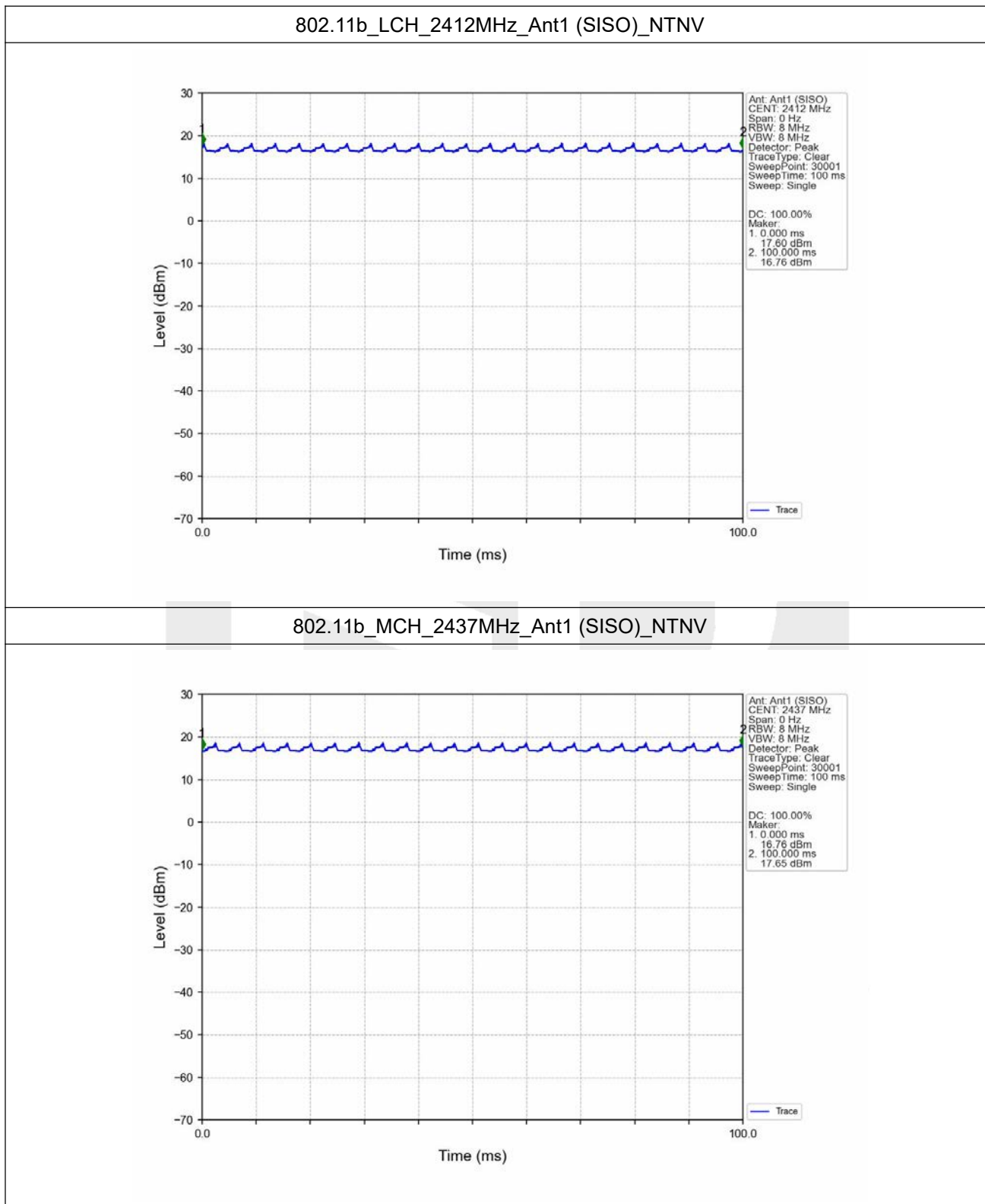
1.1 Test Result

1.1.1 Ant1

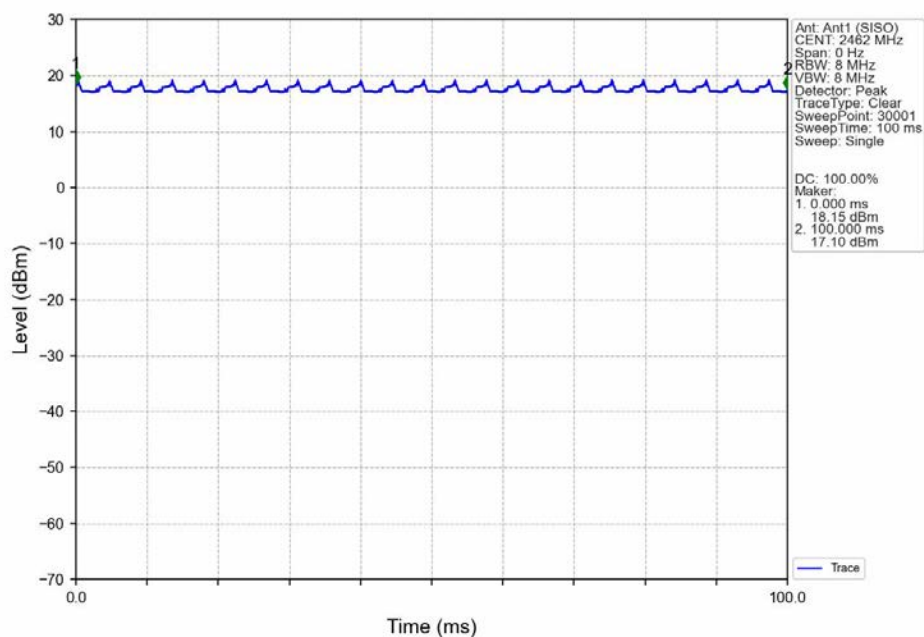
Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	12.033	12.043	99.92	0.00	0.03
		2437	12.034	12.044	99.92	0.00	0.03
		2462	12.030	12.040	99.92	0.00	0.03
802.11n (HT20)	SISO	2412	1.289	1.329	96.99	0.13	0.04
		2437	1.290	1.329	97.07	0.13	0.04
		2462	1.289	1.329	96.99	0.13	0.04

1.2 Test Graph

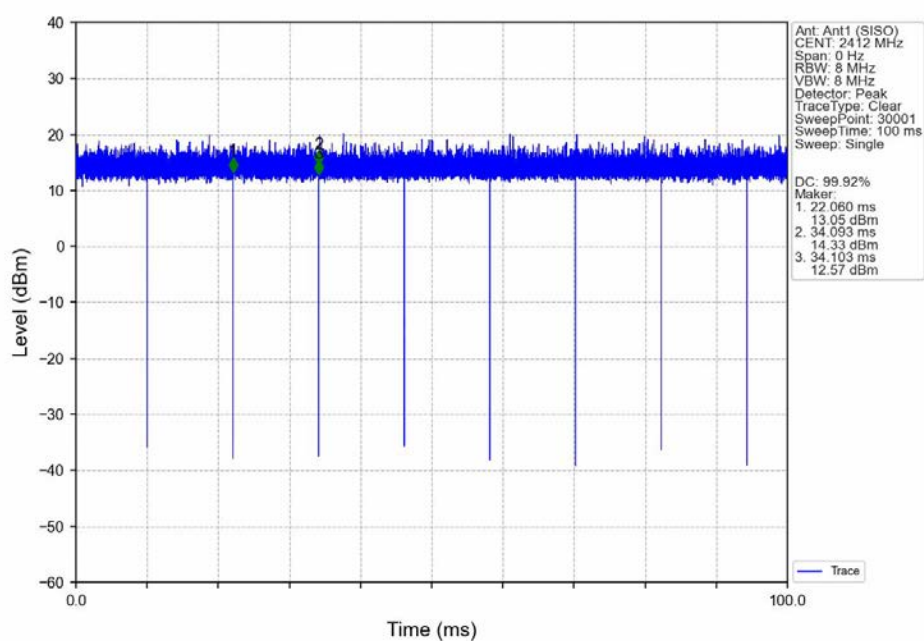
1.2.1 Ant1



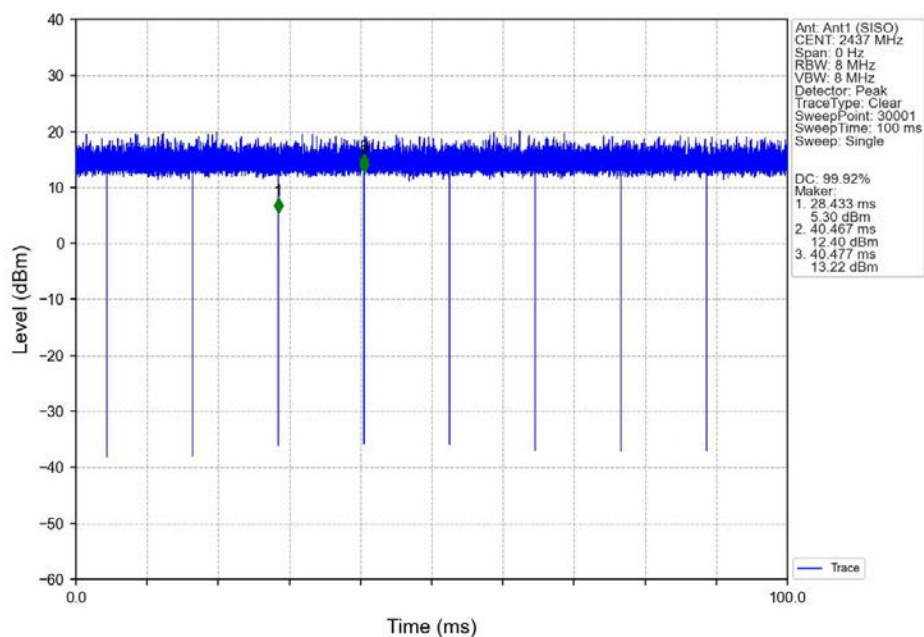
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



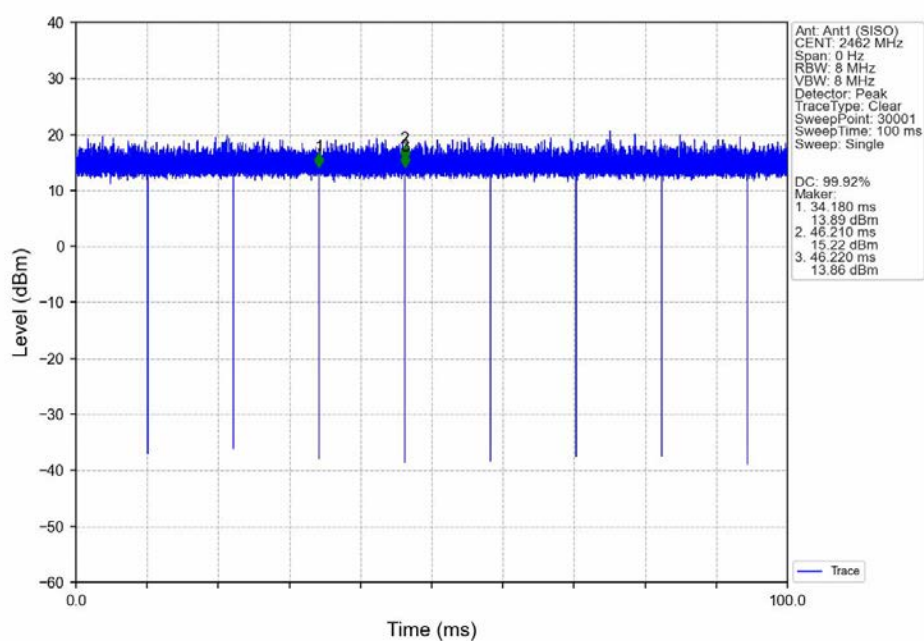
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



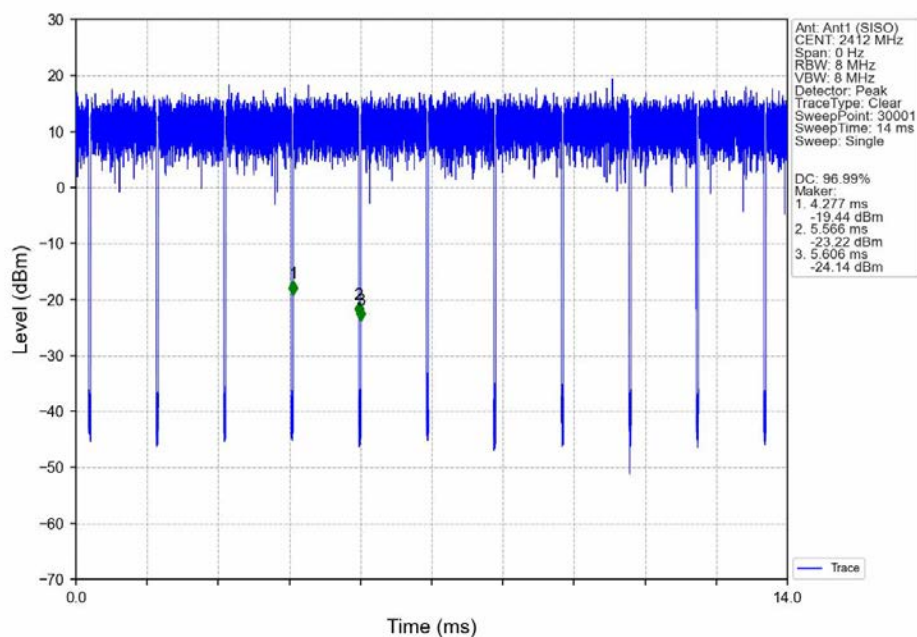
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



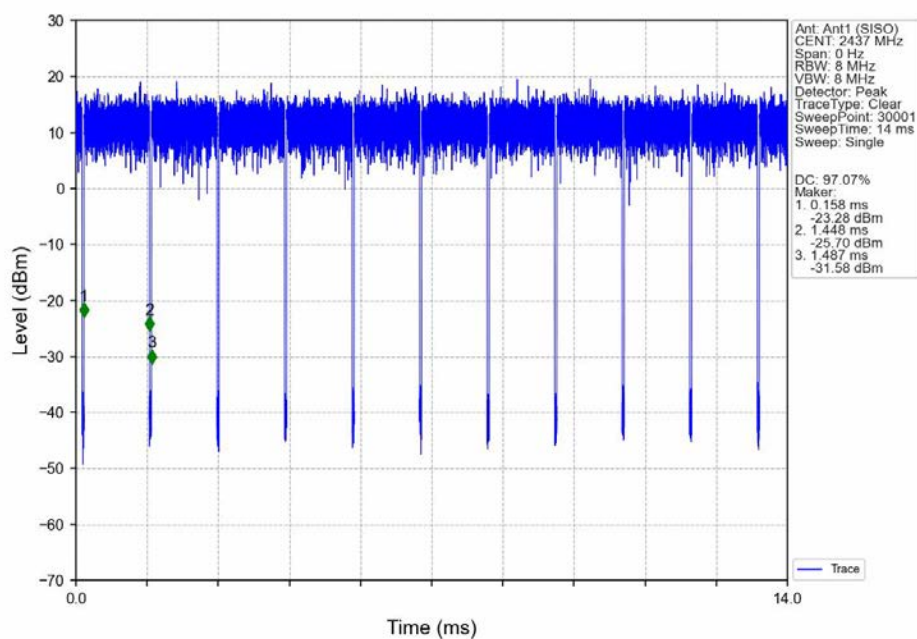
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



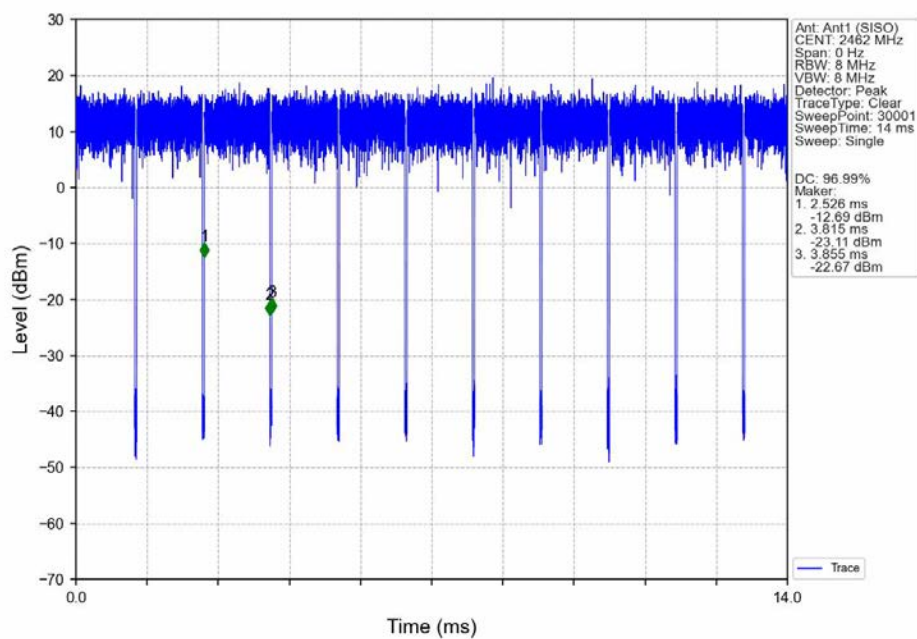
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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

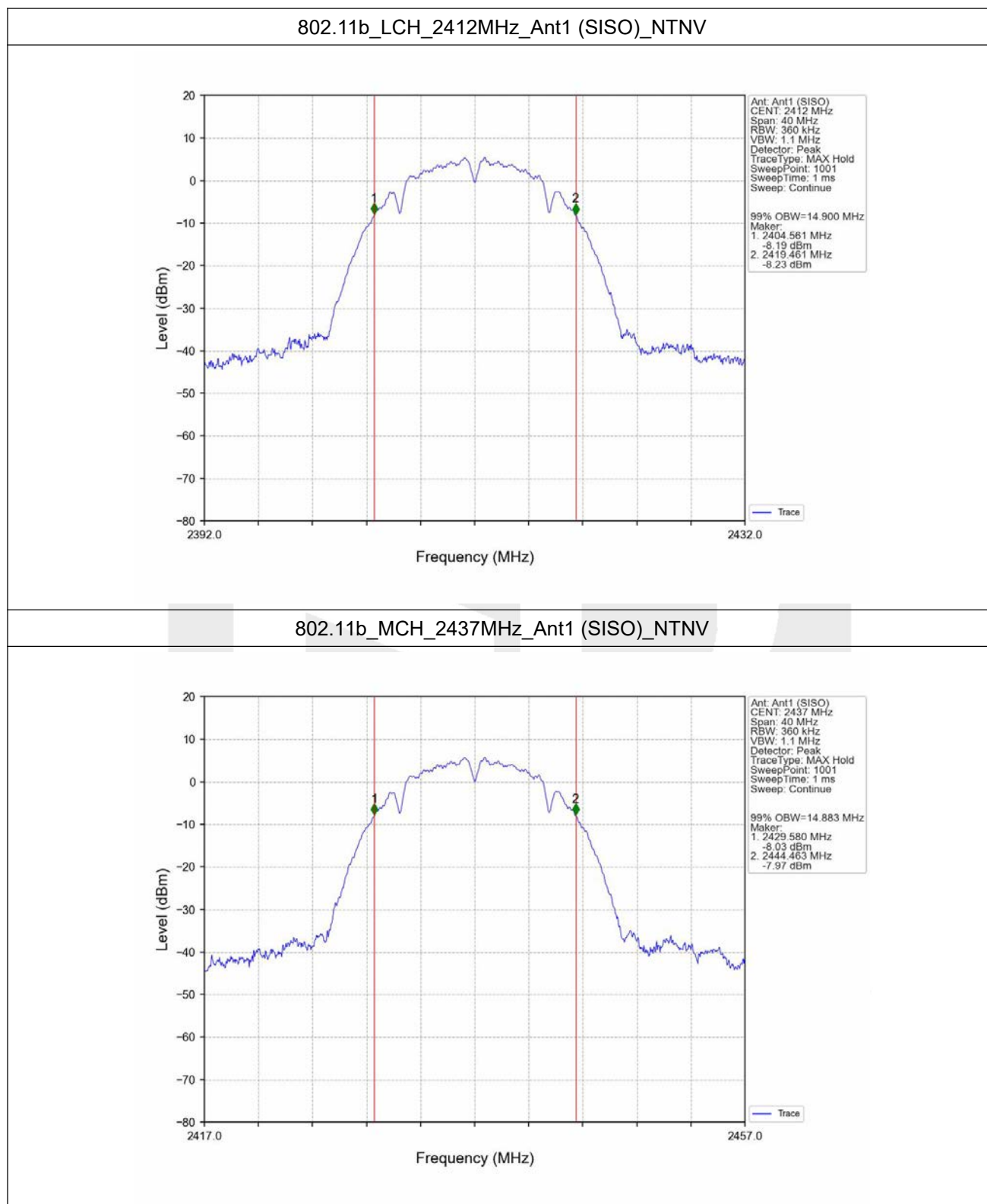
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.900	/	Pass
		2437	1	14.883	/	Pass
		2462	1	14.900	/	Pass
802.11g	SISO	2412	1	17.194	/	Pass
		2437	1	17.173	/	Pass
		2462	1	17.137	/	Pass
802.11n (HT20)	SISO	2412	1	17.927	/	Pass
		2437	1	17.831	/	Pass
		2462	1	17.940	/	Pass

2.1.2 6dB BW

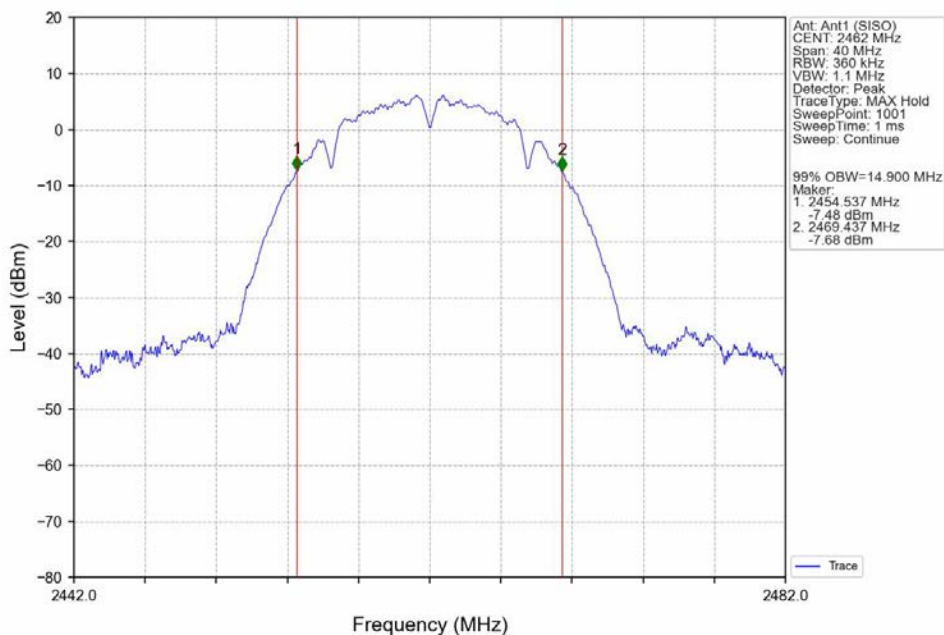
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.167	≥ 0.5	Pass
		2437	1	10.181	≥ 0.5	Pass
		2462	1	10.185	≥ 0.5	Pass
802.11g	SISO	2412	1	16.754	≥ 0.5	Pass
		2437	1	16.802	≥ 0.5	Pass
		2462	1	16.656	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.623	≥ 0.5	Pass
		2437	1	17.700	≥ 0.5	Pass
		2462	1	17.567	≥ 0.5	Pass

2.2 Test Graph

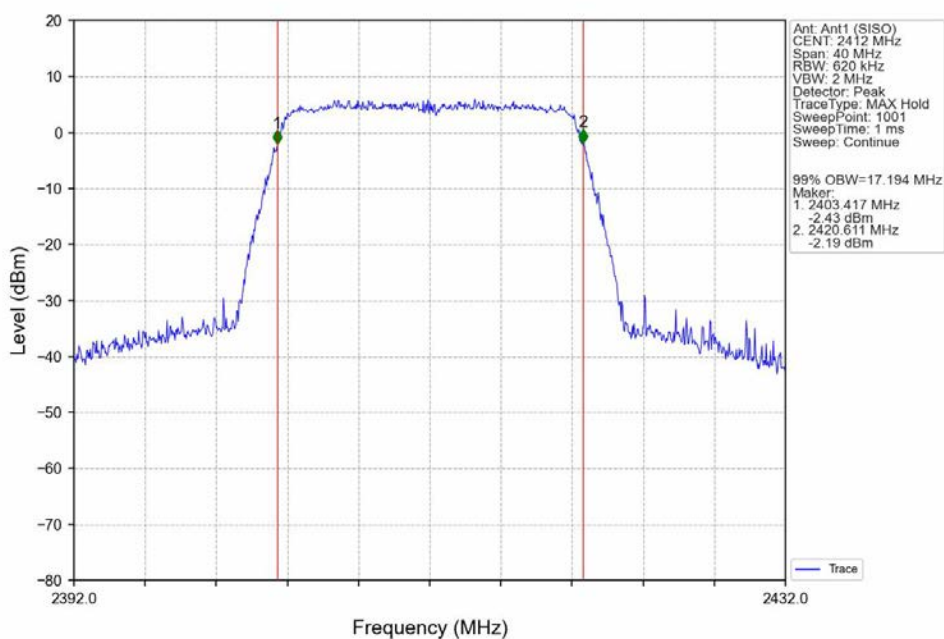
2.2.1 OBW



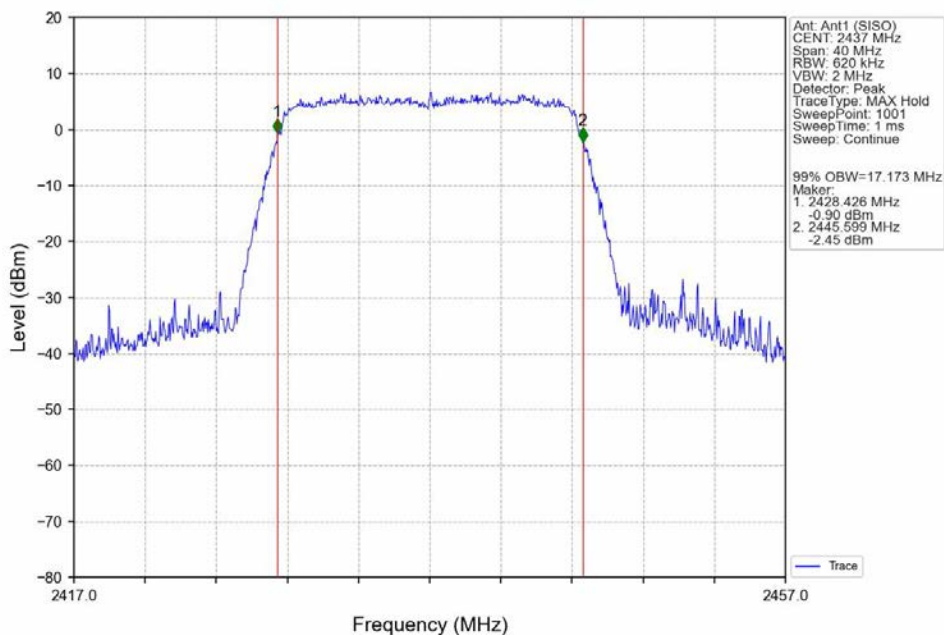
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



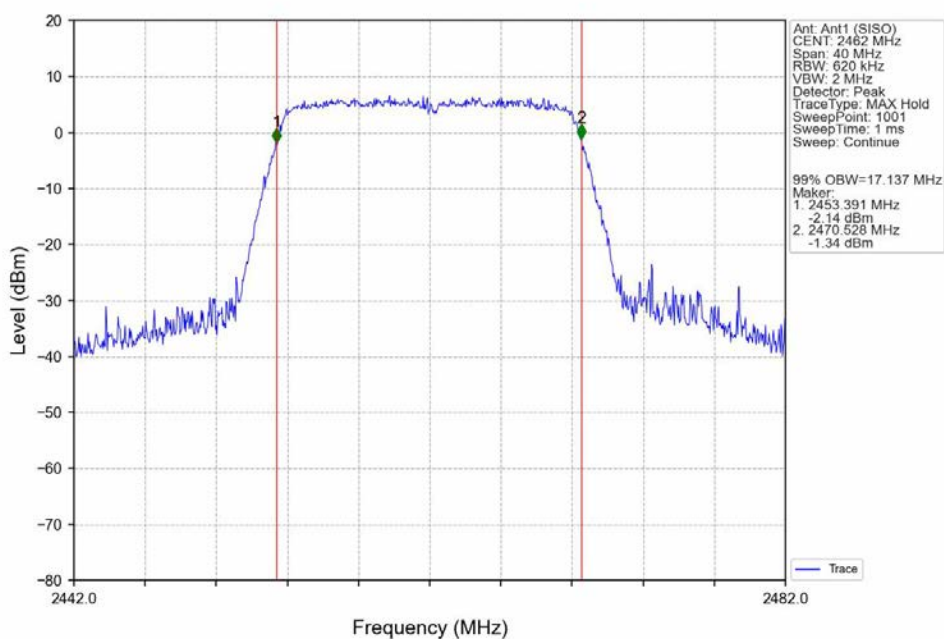
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



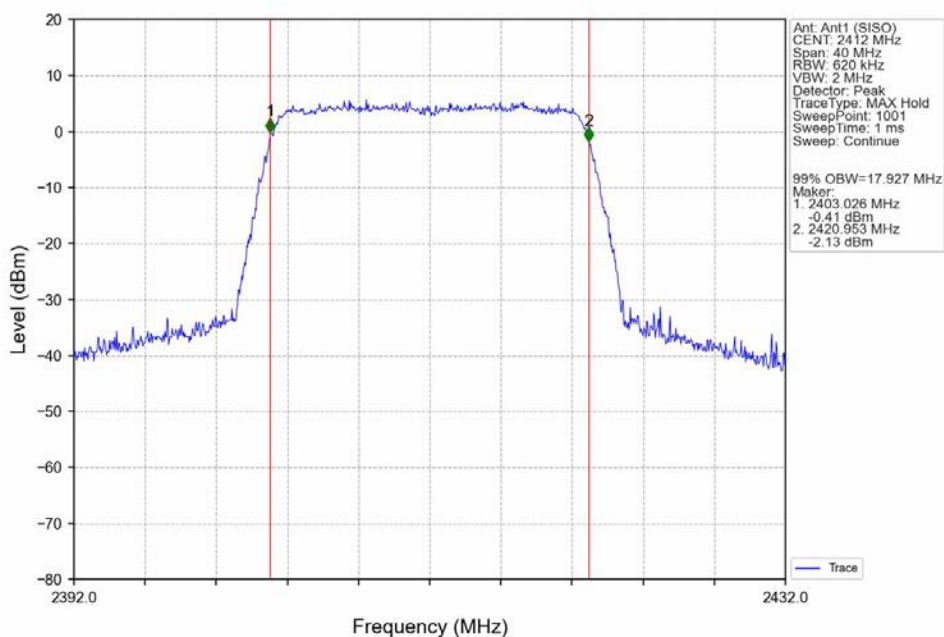
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



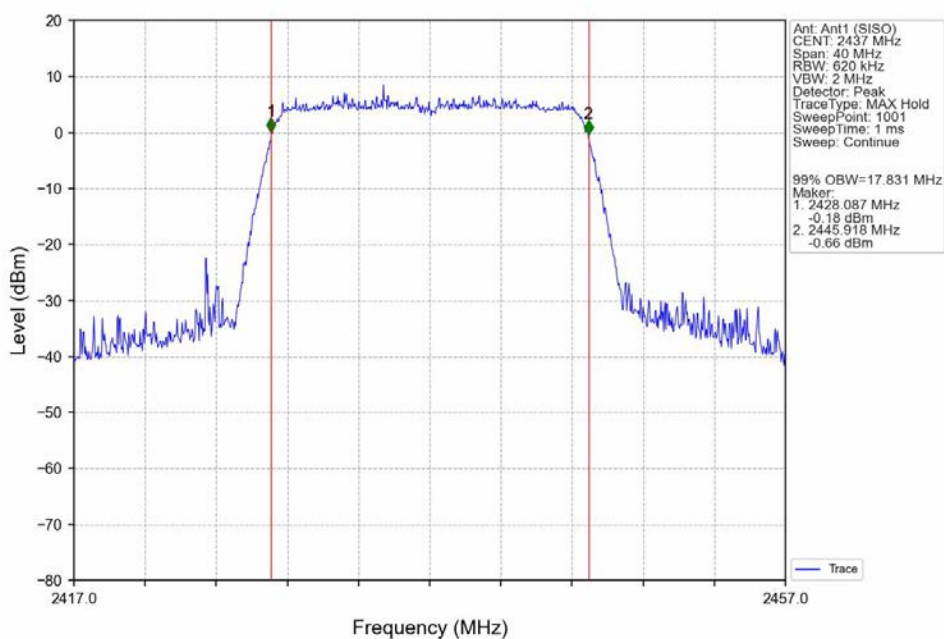
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



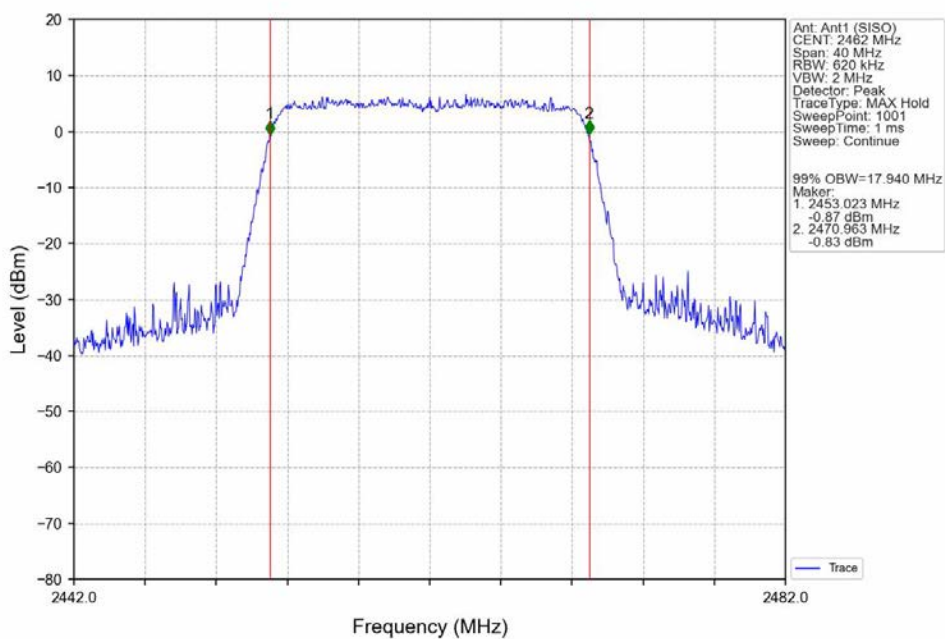
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



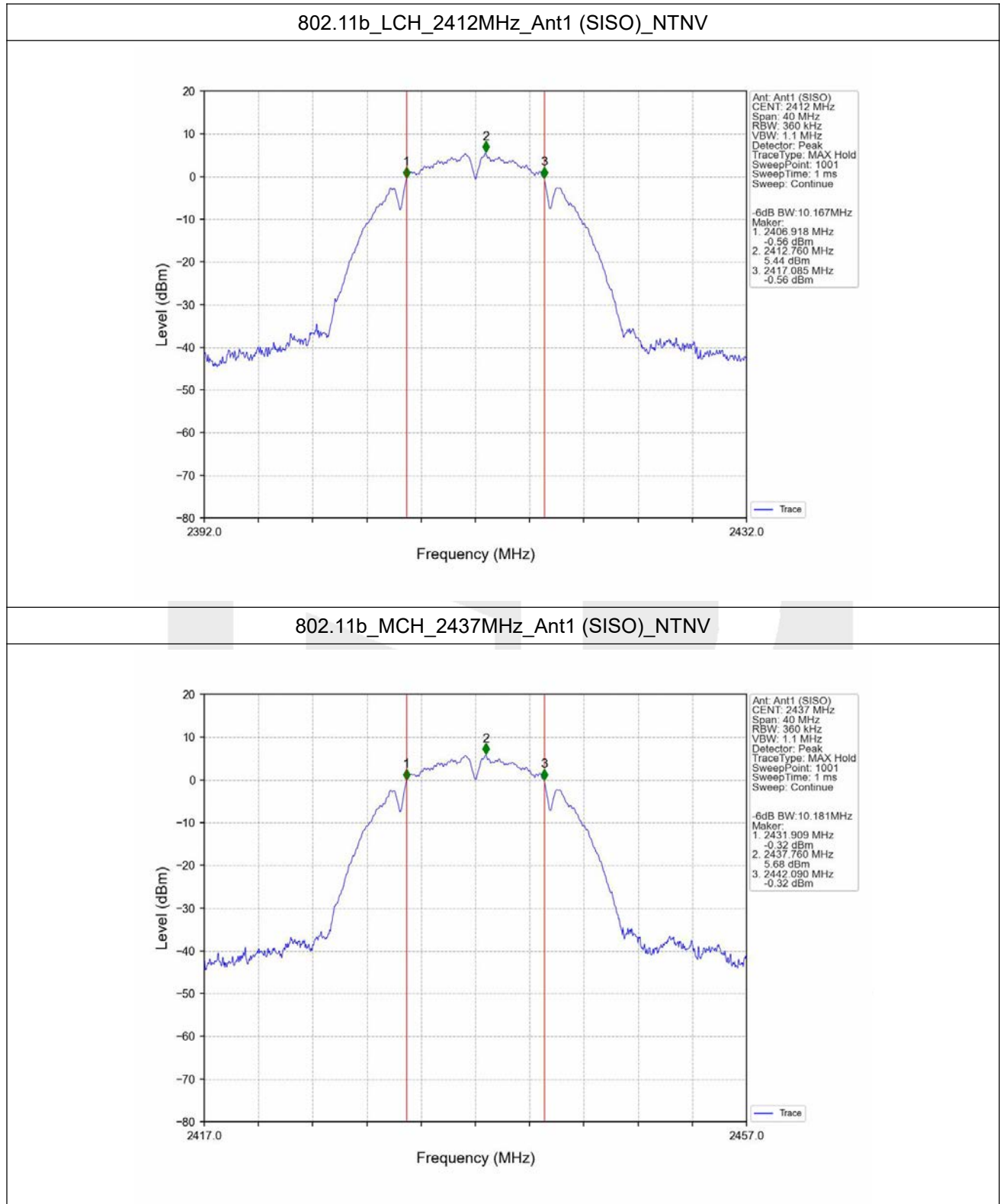
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



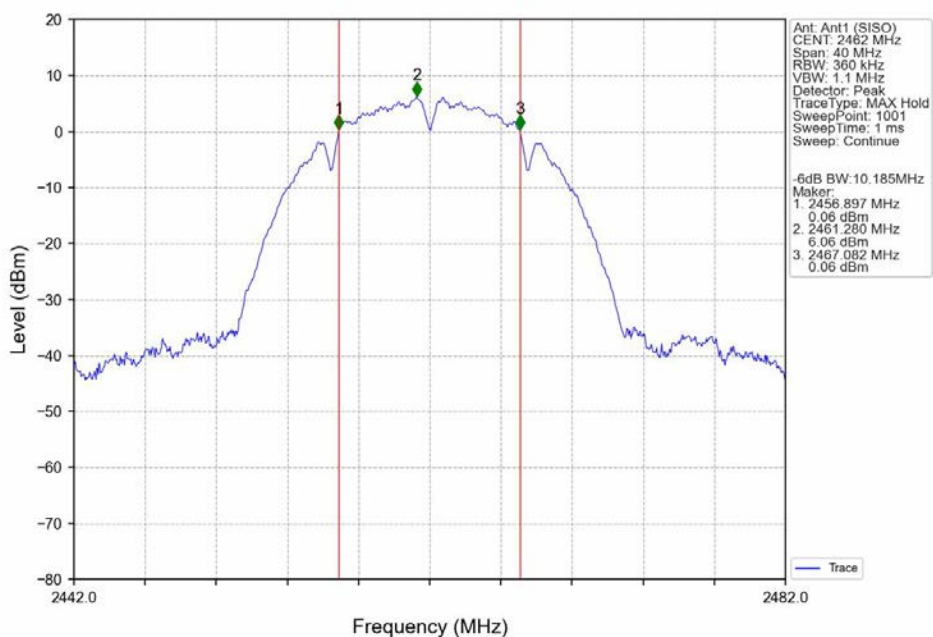
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



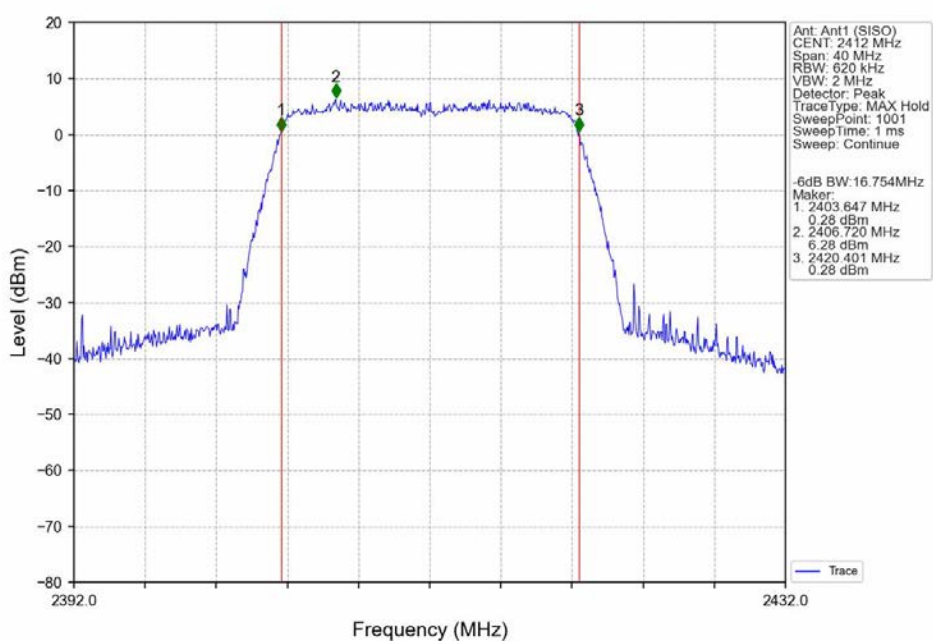
2.2.2 6dB BW



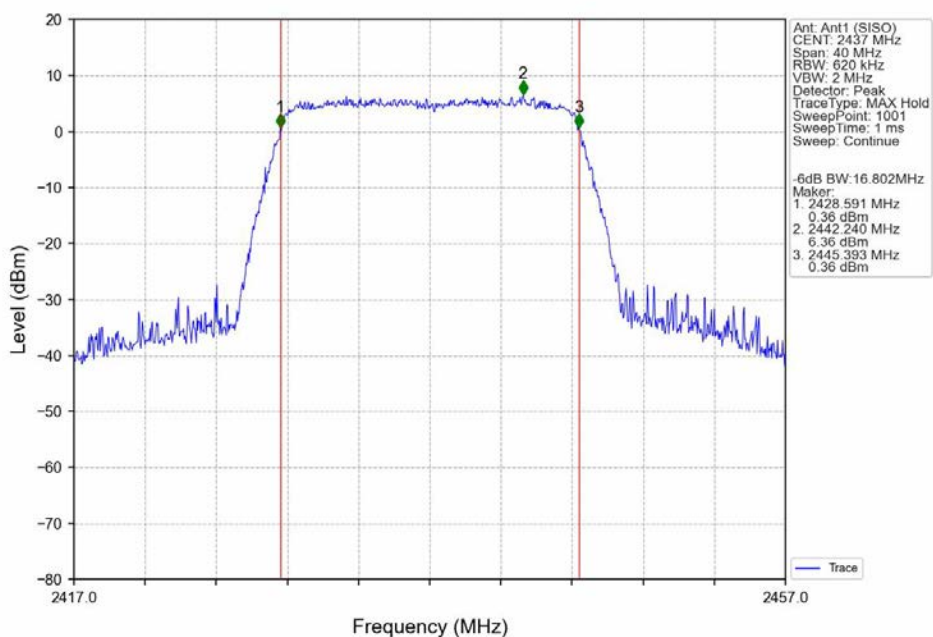
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



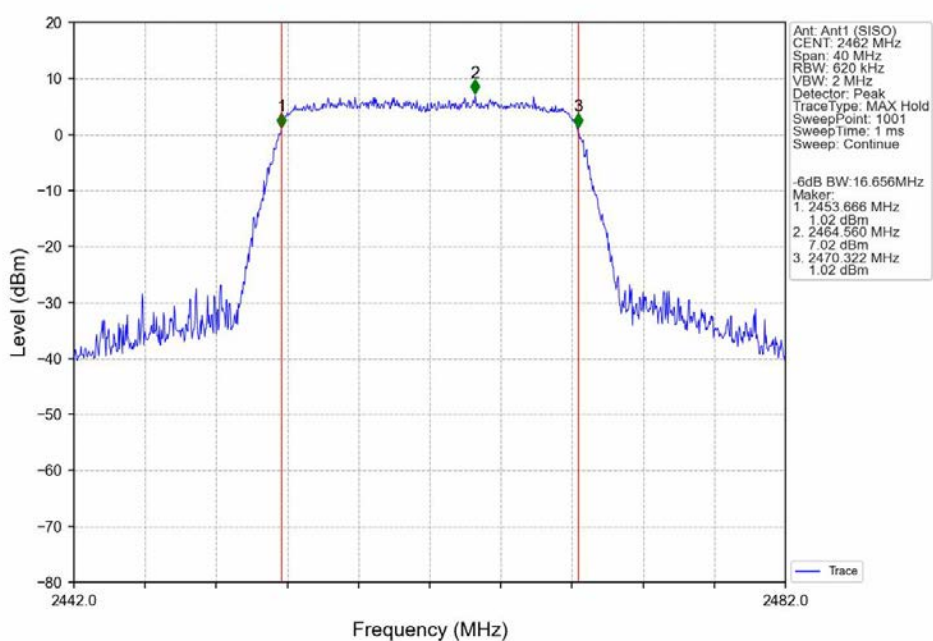
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



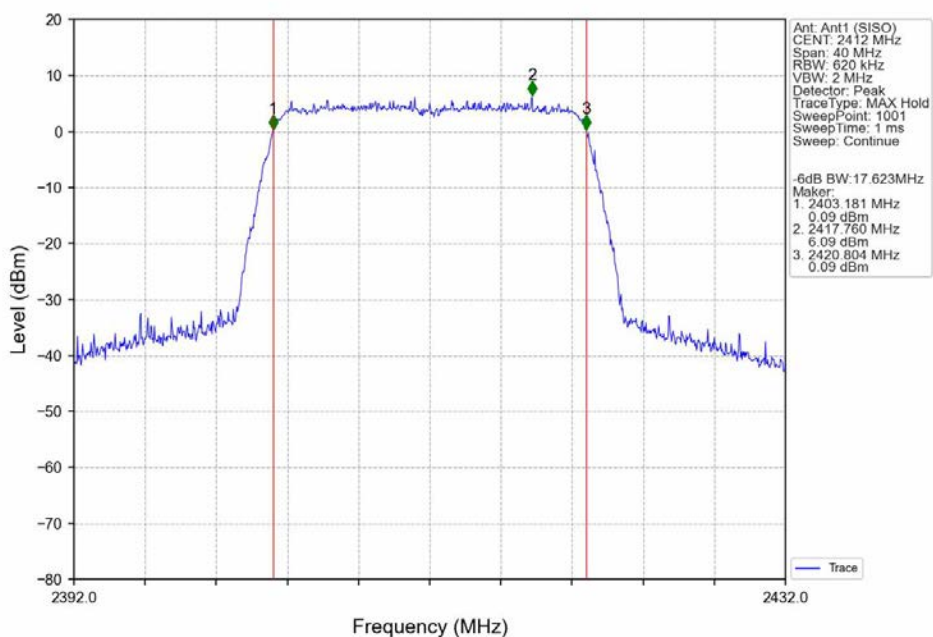
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



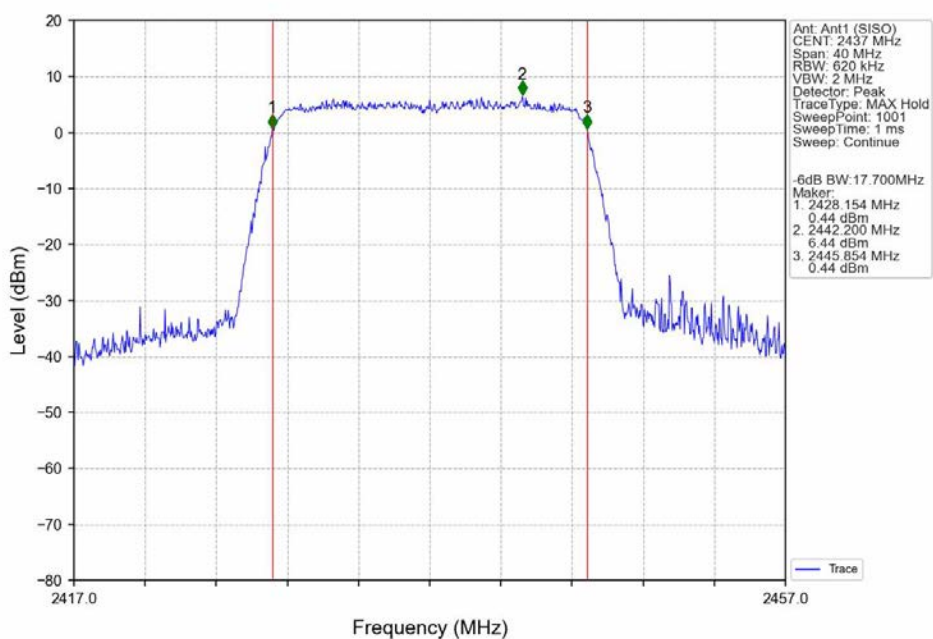
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



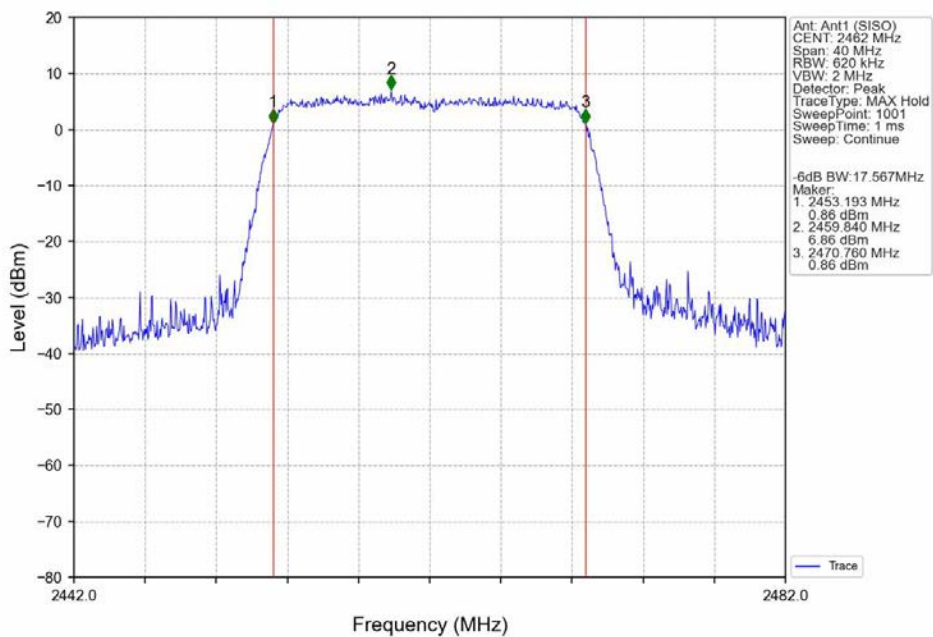
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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 Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	16.21	<=30	Pass
		2437	16.55	<=30	Pass
		2462	16.94	<=30	Pass
802.11g	SISO	2412	19.39	<=30	Pass
		2437	19.70	<=30	Pass
		2462	19.77	<=30	Pass
802.11n (HT20)	SISO	2412	19.13	<=30	Pass
		2437	19.67	<=30	Pass
		2462	19.77	<=30	Pass
Note1: Antenna Gain: Ant1: 2.39dBi;					

4. Maximum Power Spectral Density

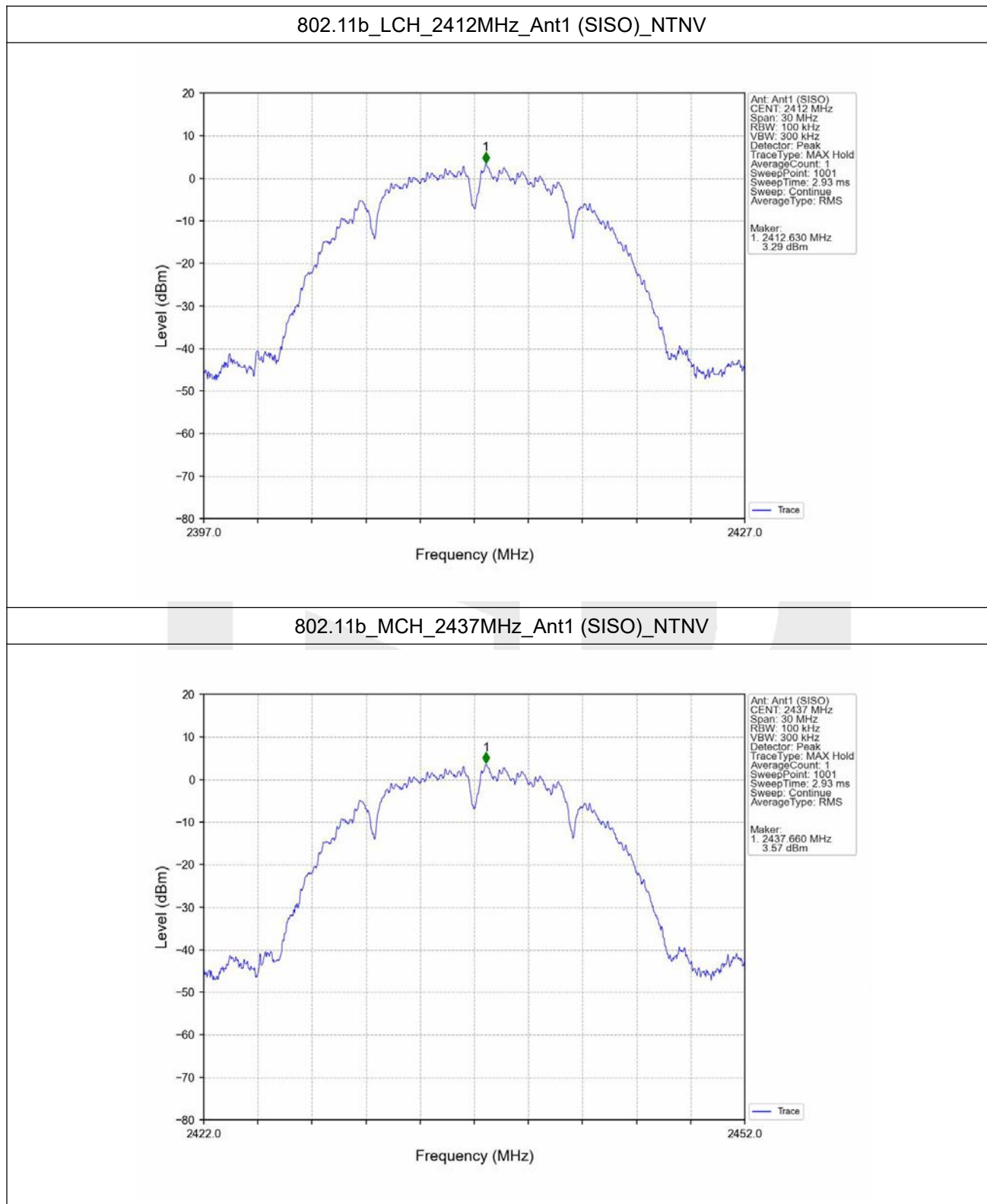
4.1 Test Result

4.1.1 PSD

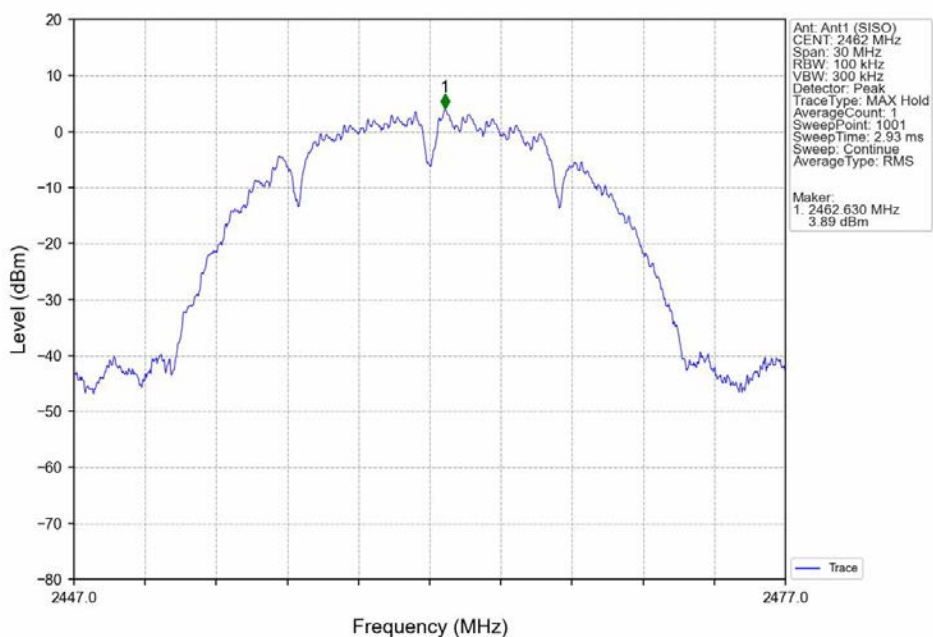
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	3.29	<=8	Pass
		2437	3.57	<=8	Pass
		2462	3.89	<=8	Pass
802.11g	SISO	2412	-0.18	<=8	Pass
		2437	-0.02	<=8	Pass
		2462	0.59	<=8	Pass
802.11n (HT20)	SISO	2412	0.07	<=8	Pass
		2437	0.44	<=8	Pass
		2462	0.79	<=8	Pass
Note1: Antenna Gain: Ant1: 2.39dBi;					

4.2 Test Graph

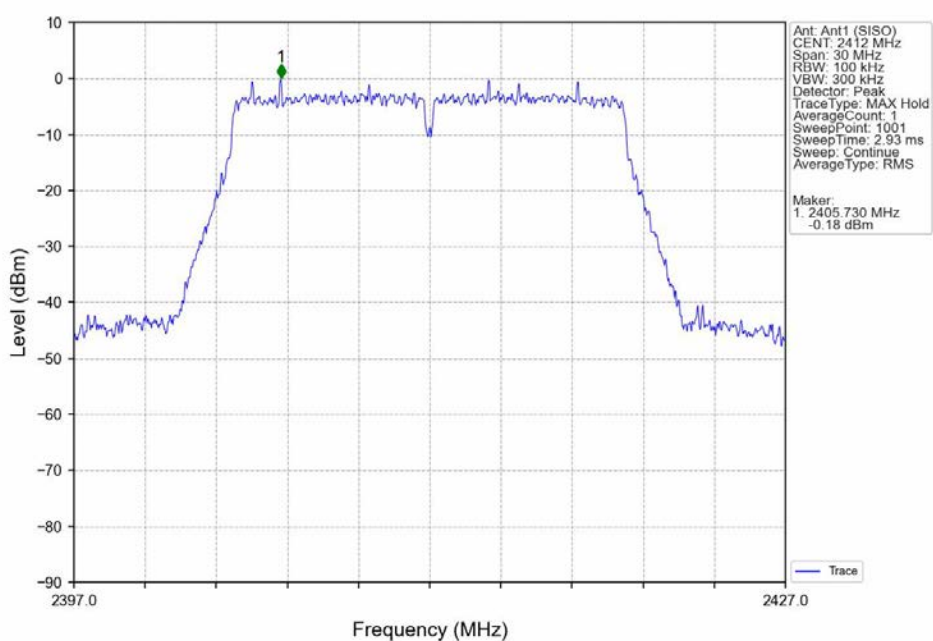
4.2.1 PSD



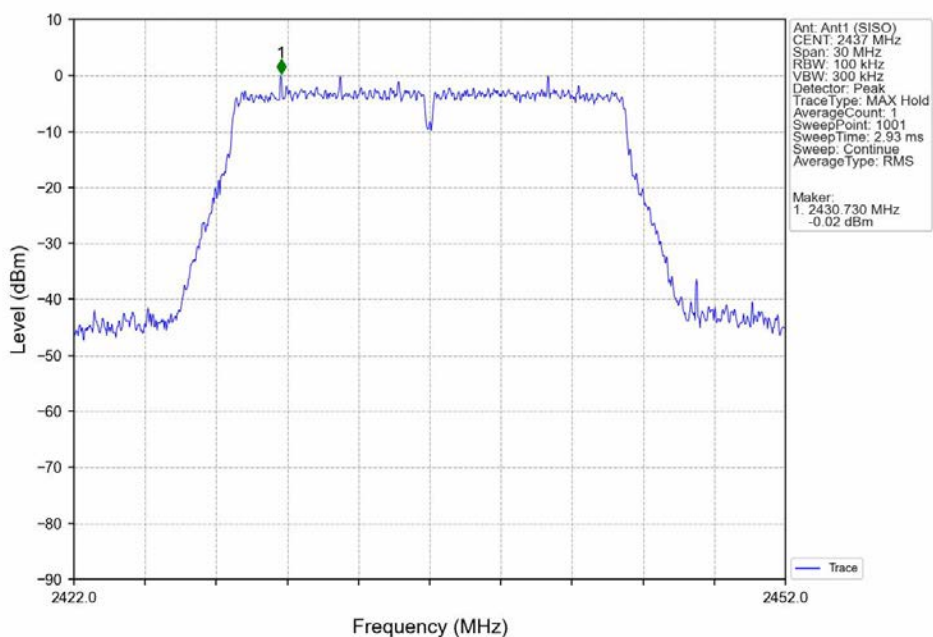
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



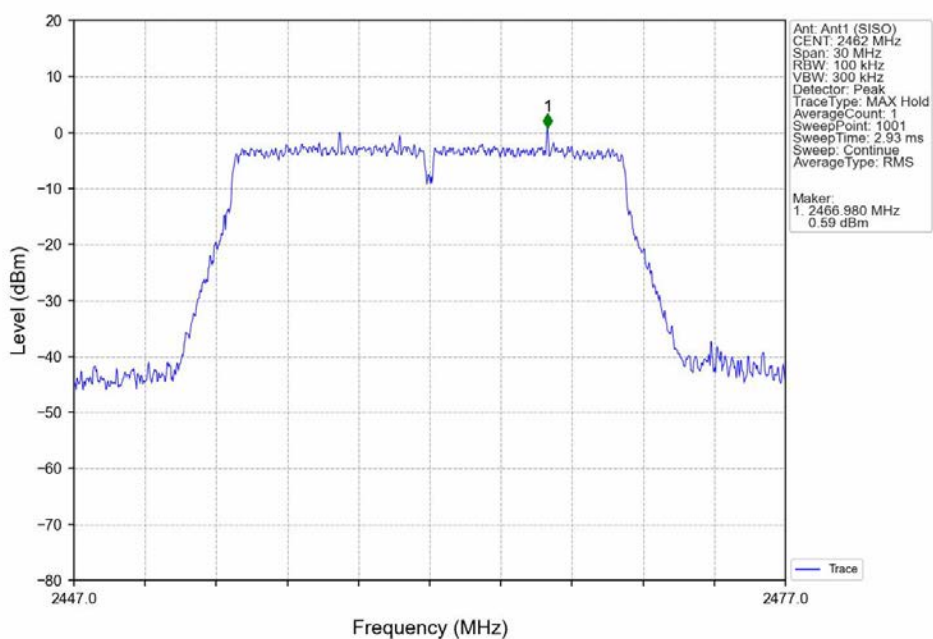
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



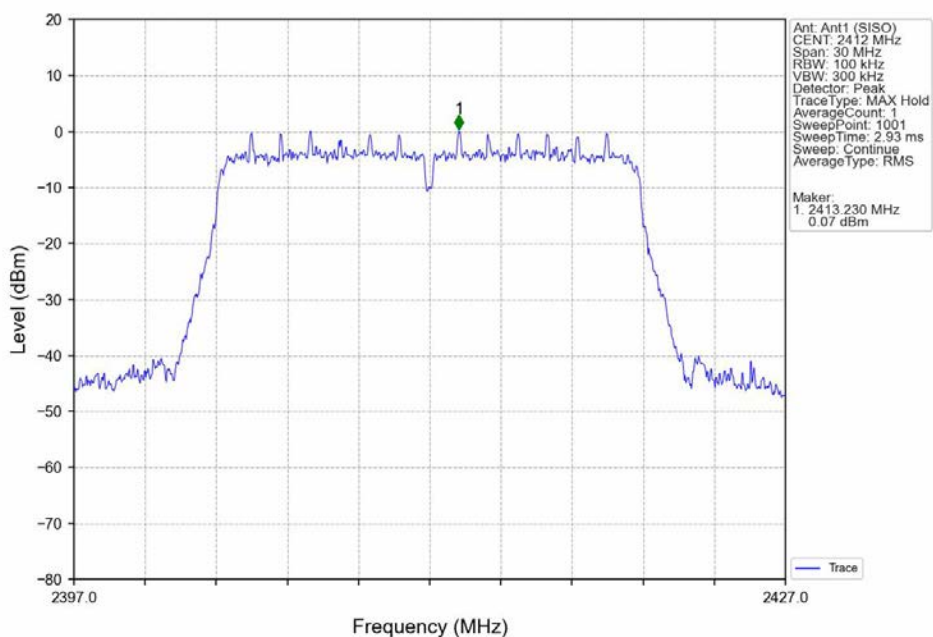
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



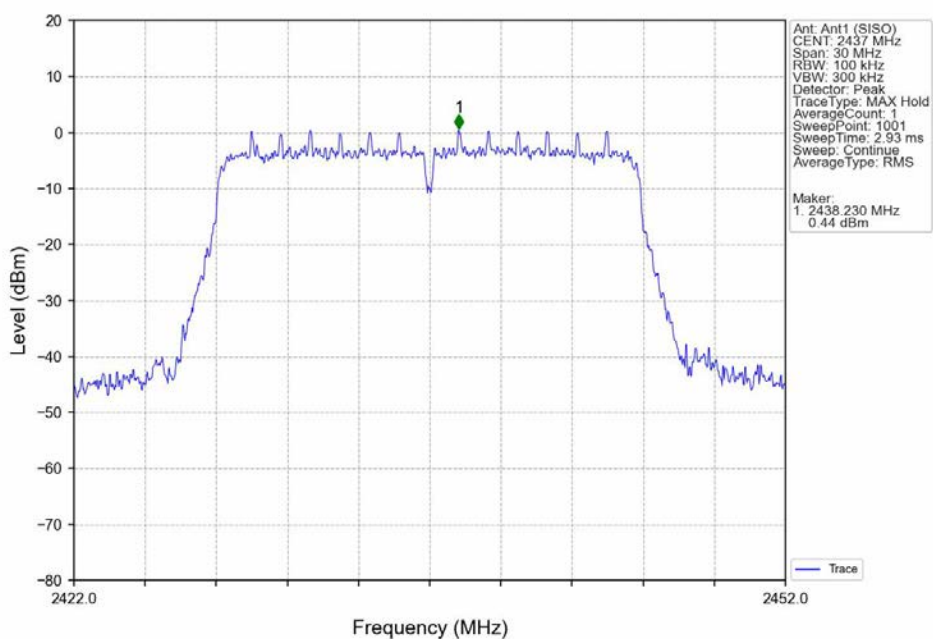
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

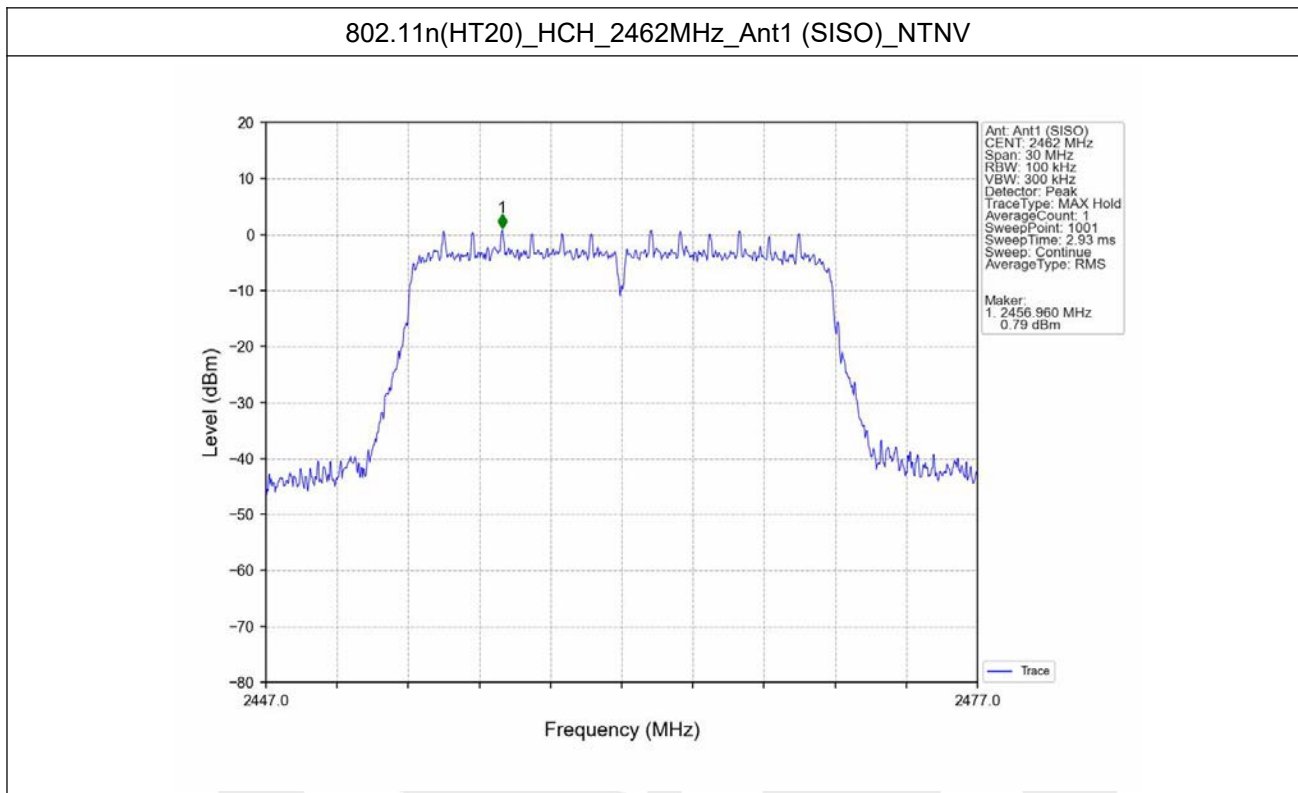


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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	3.24
		2437	1	3.56
		2462	1	3.97
802.11g	SISO	2412	1	-0.17
		2437	1	-0.19
		2462	1	0.70
802.11n (HT20)	SISO	2412	1	0.07
		2437	1	0.64
		2462	1	0.86

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020+Cor 1-2023, the channel contains the maximum PSD level was used to establish the reference level.

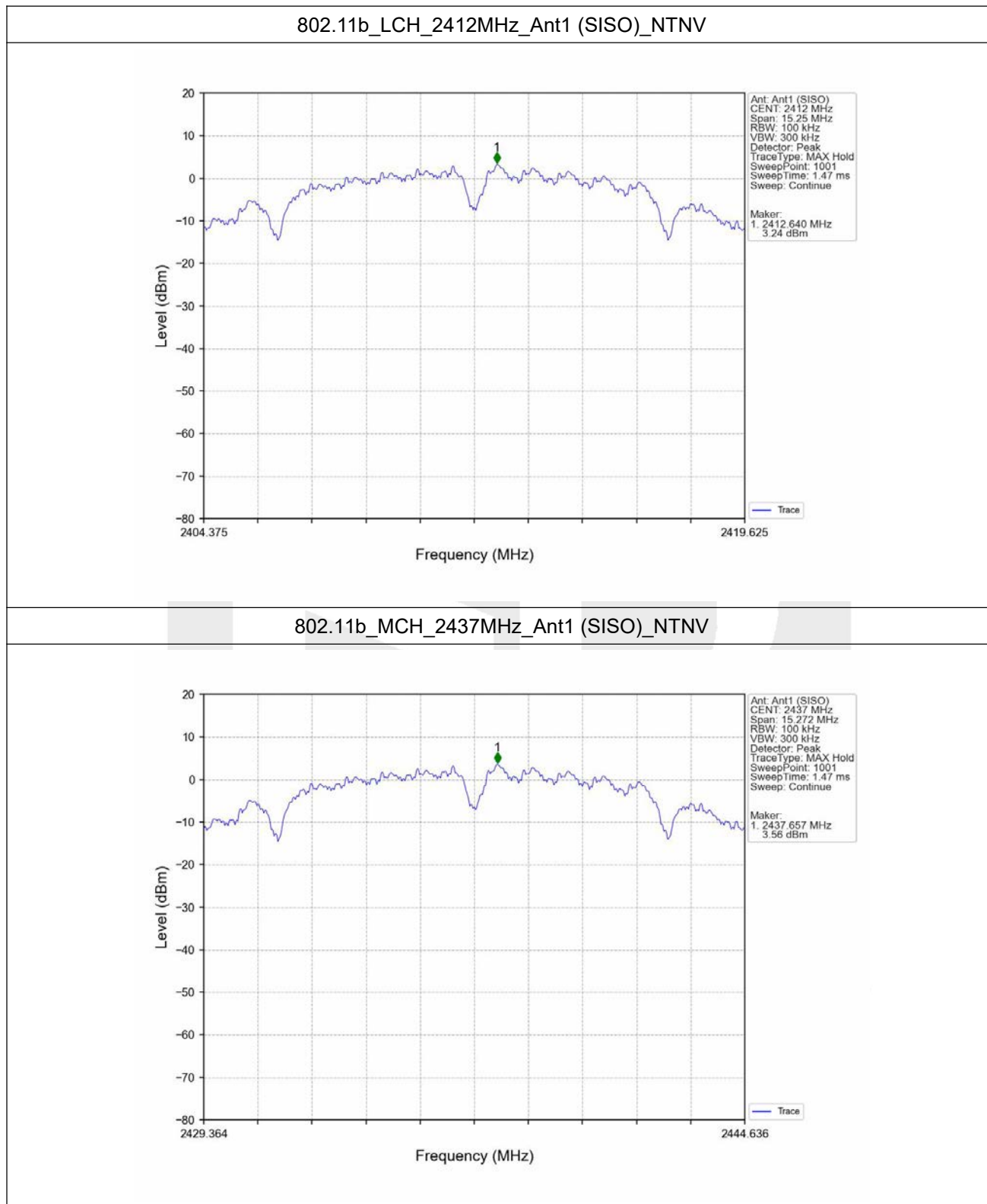
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	3.24	-16.76	Pass
		2437	1	3.56	-16.44	Pass
		2462	1	3.97	-16.03	Pass
802.11g	SISO	2412	1	-0.17	-20.17	Pass
		2437	1	-0.19	-20.19	Pass
		2462	1	0.70	-19.30	Pass
802.11n (HT20)	SISO	2412	1	0.07	-19.93	Pass
		2437	1	0.64	-19.36	Pass
		2462	1	0.86	-19.14	Pass

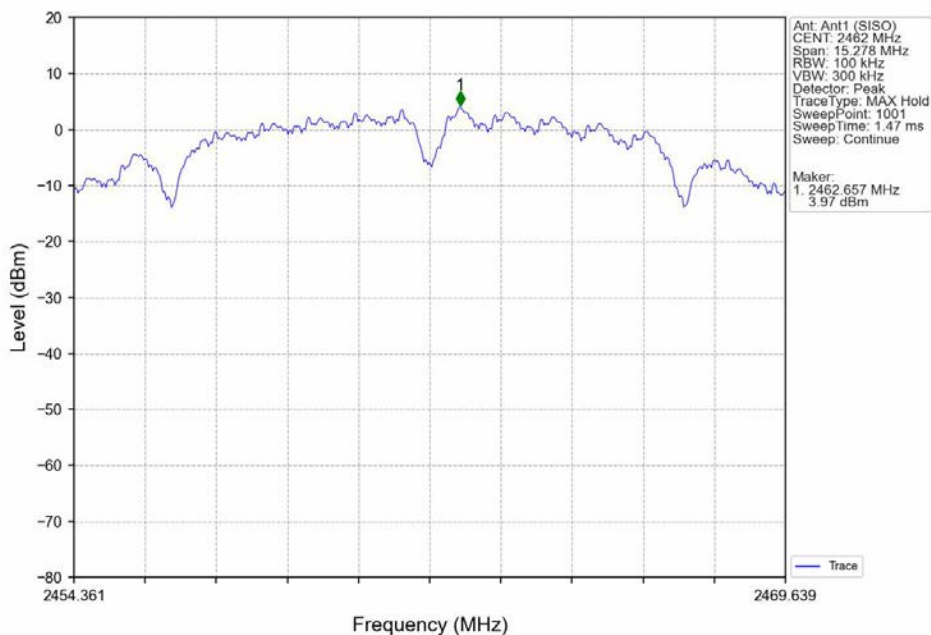
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020+Cor 1-2023, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

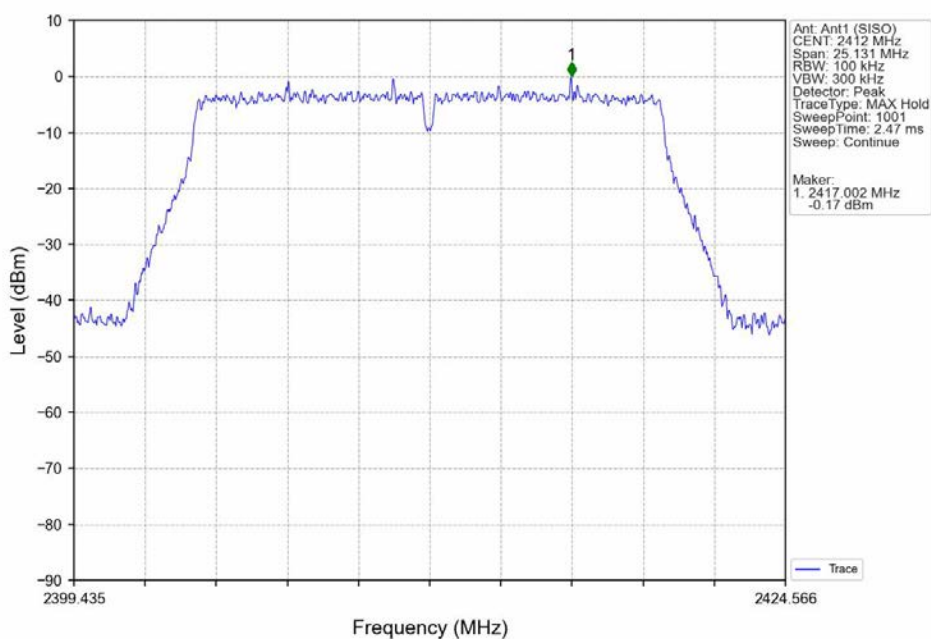
5.2.1 Ref



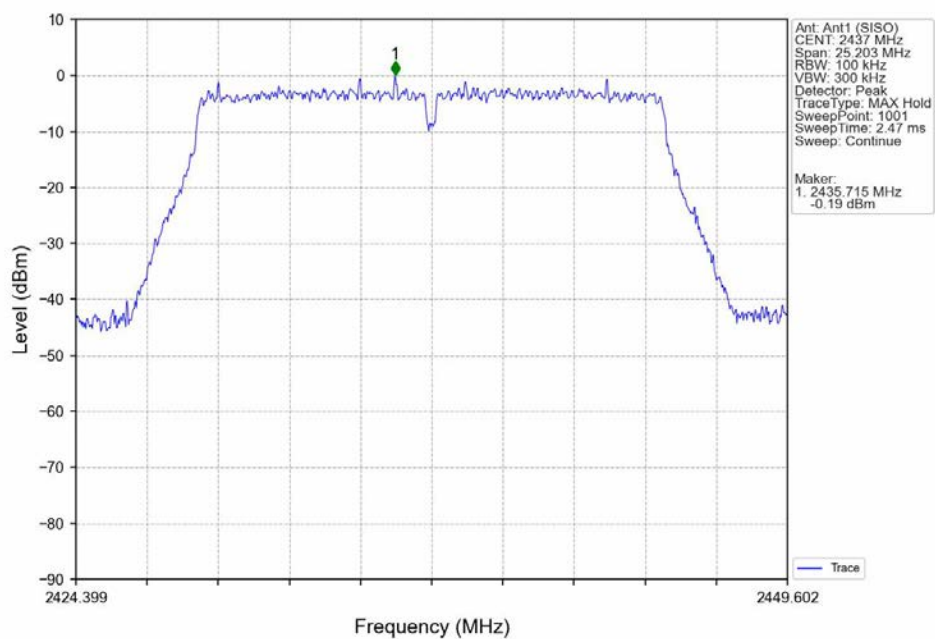
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



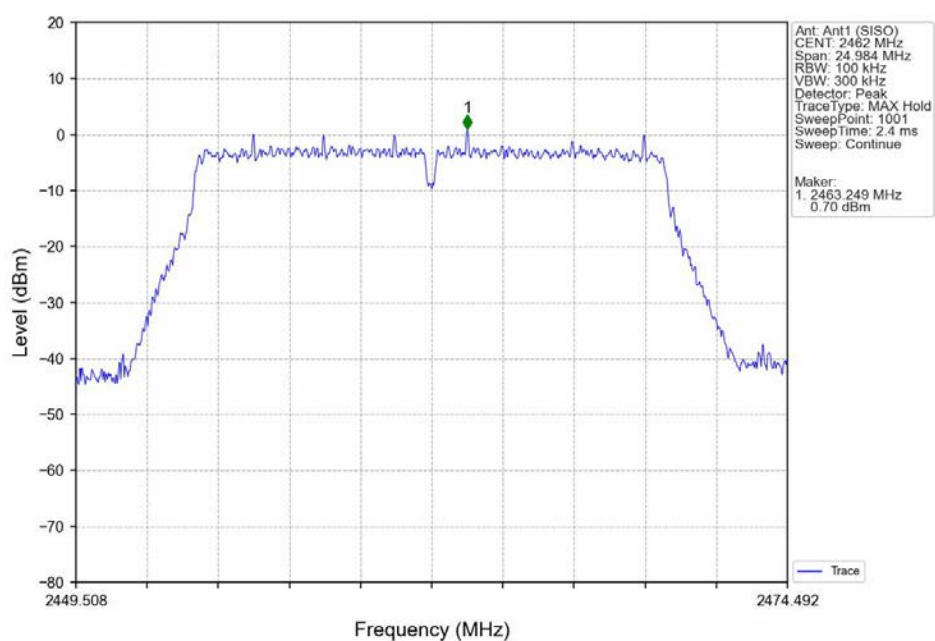
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



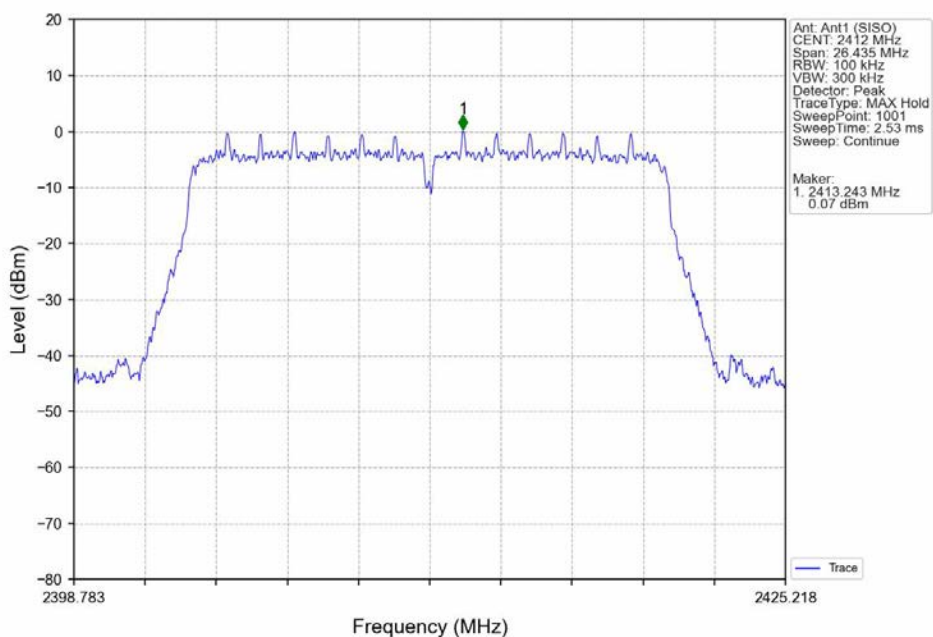
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



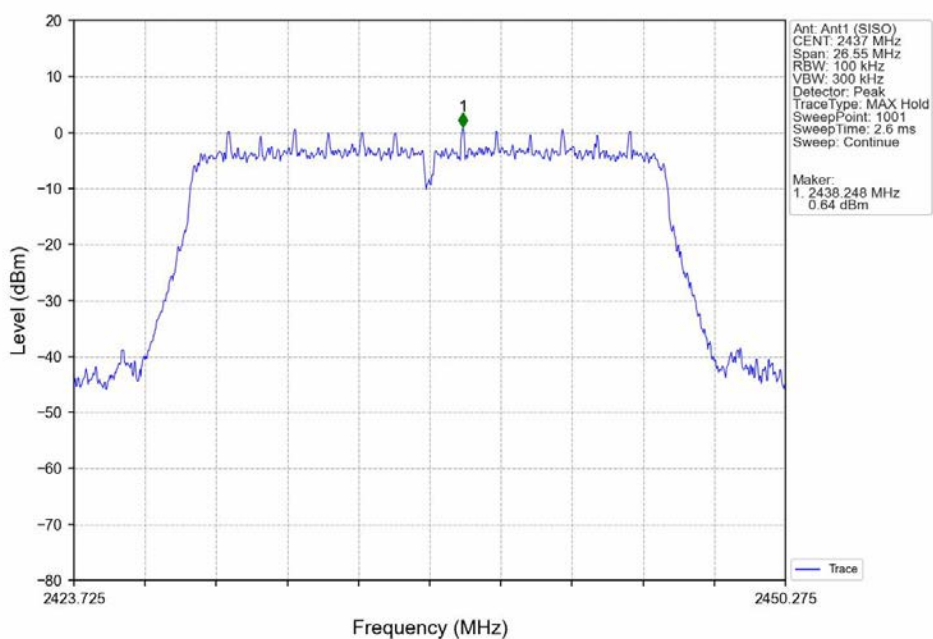
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



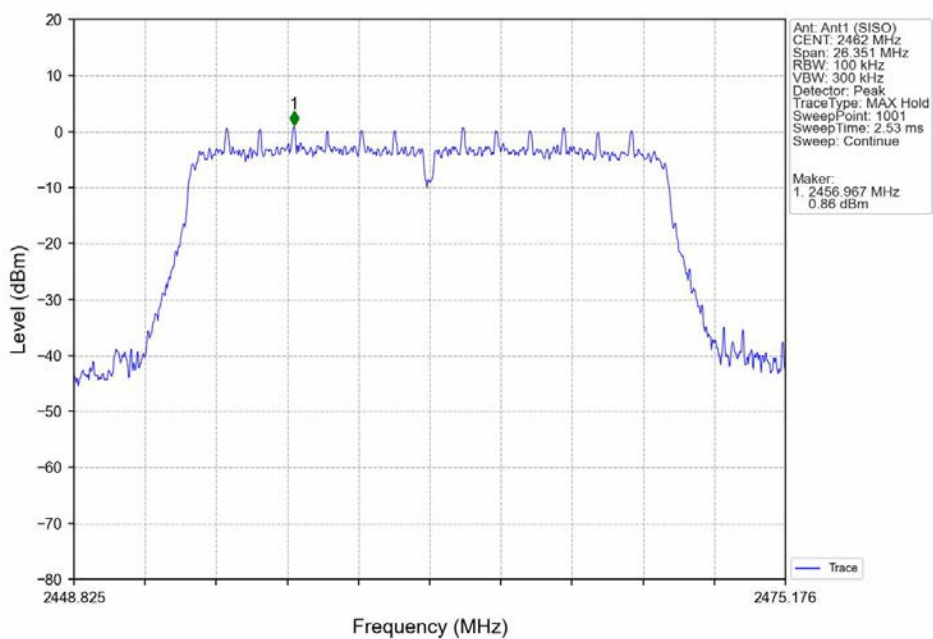
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

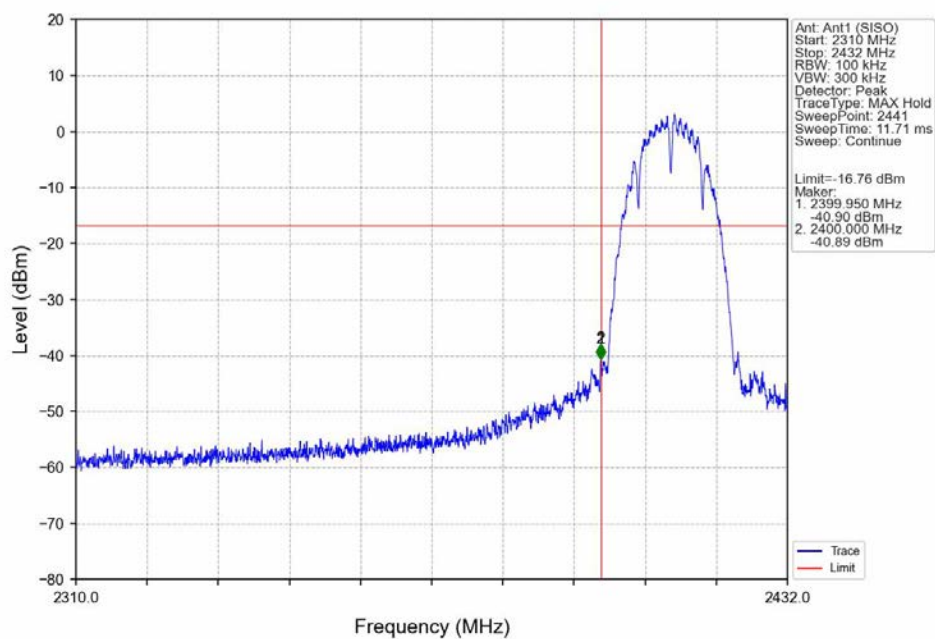


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

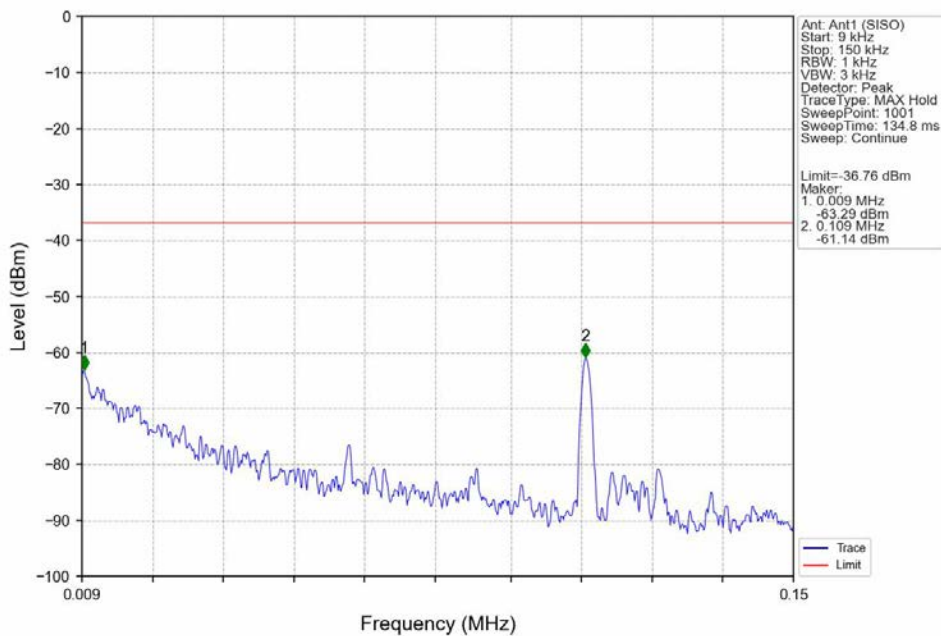


5.2.2 CSE

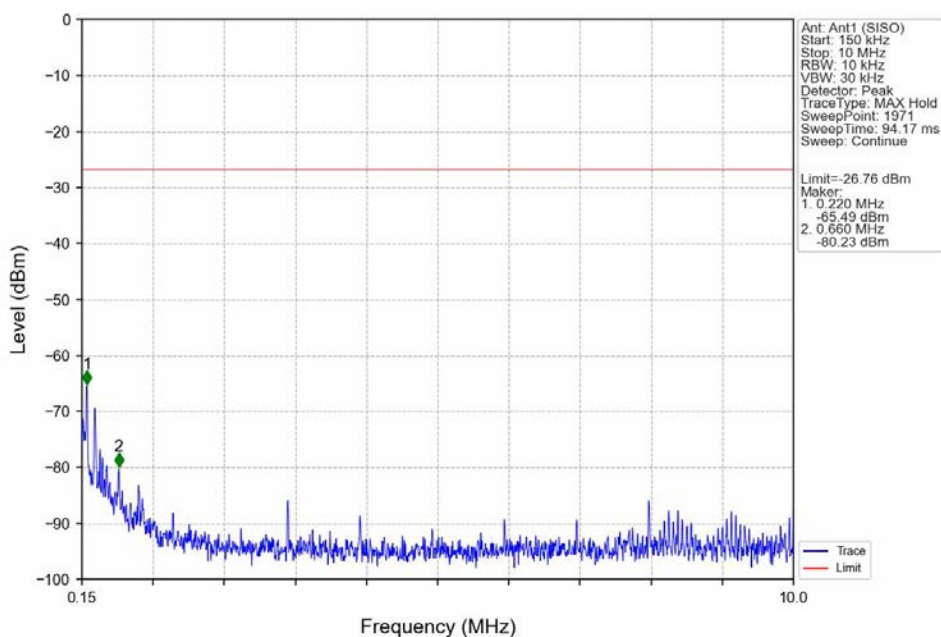
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



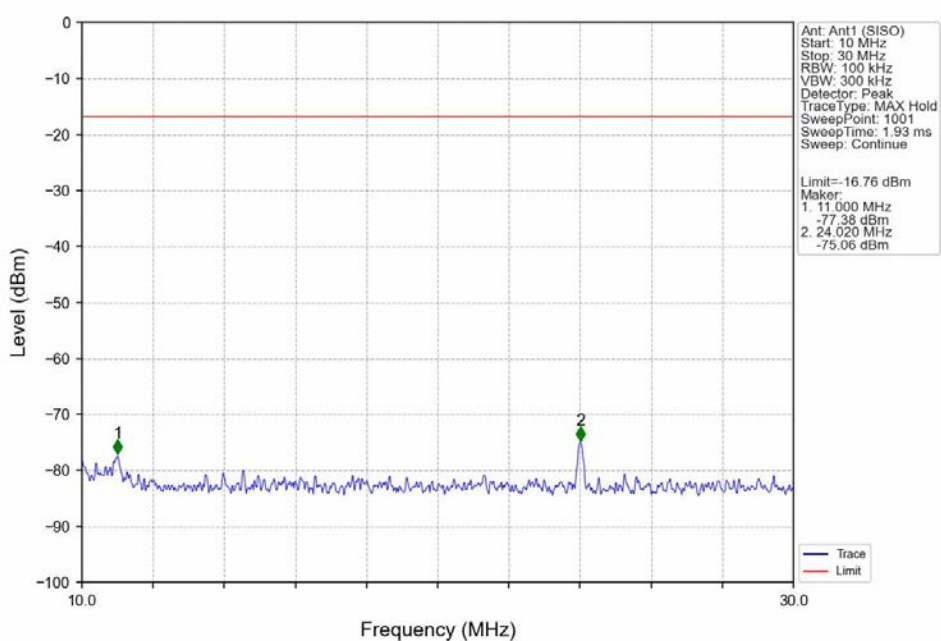
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



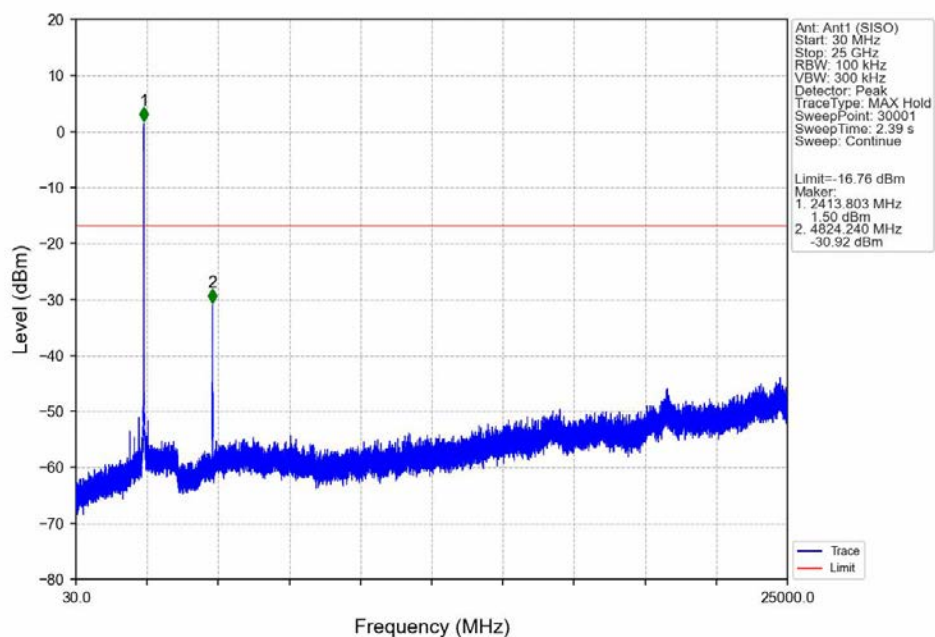
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



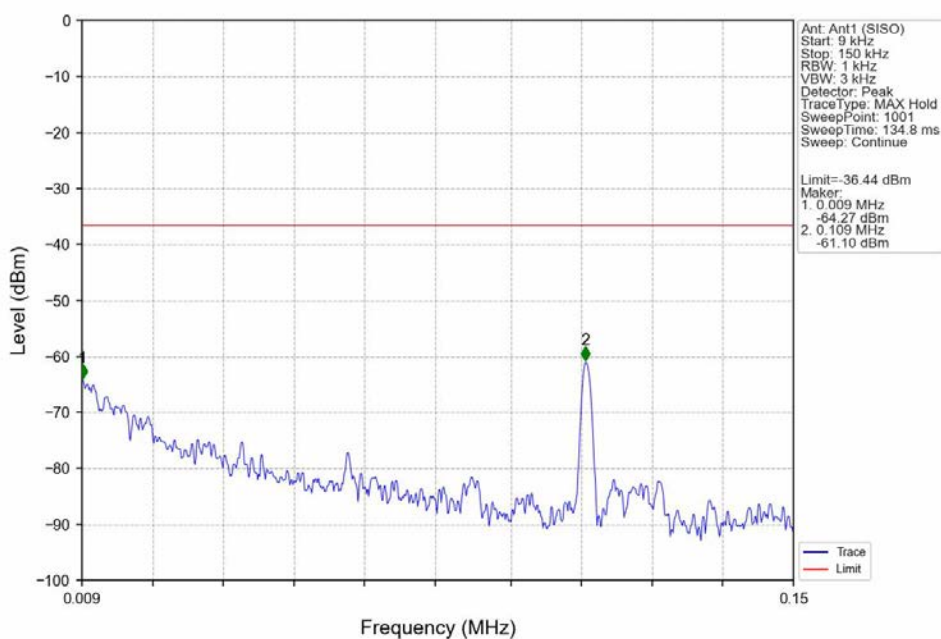
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



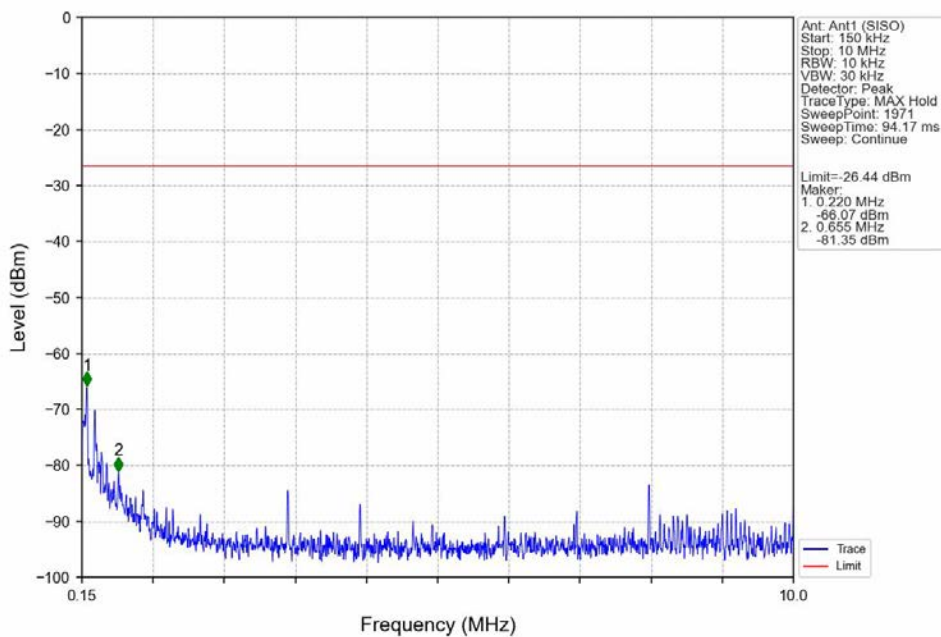
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



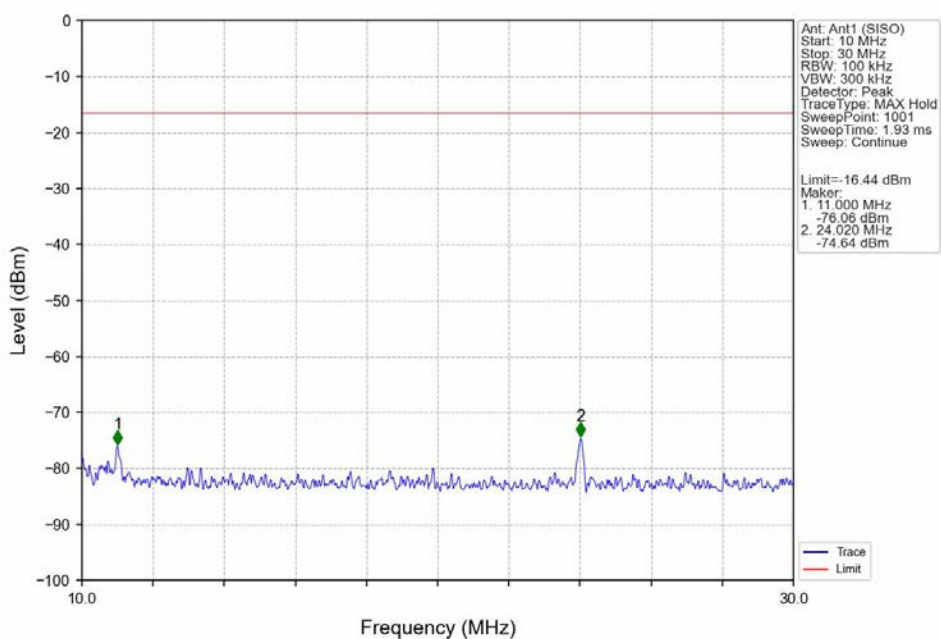
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



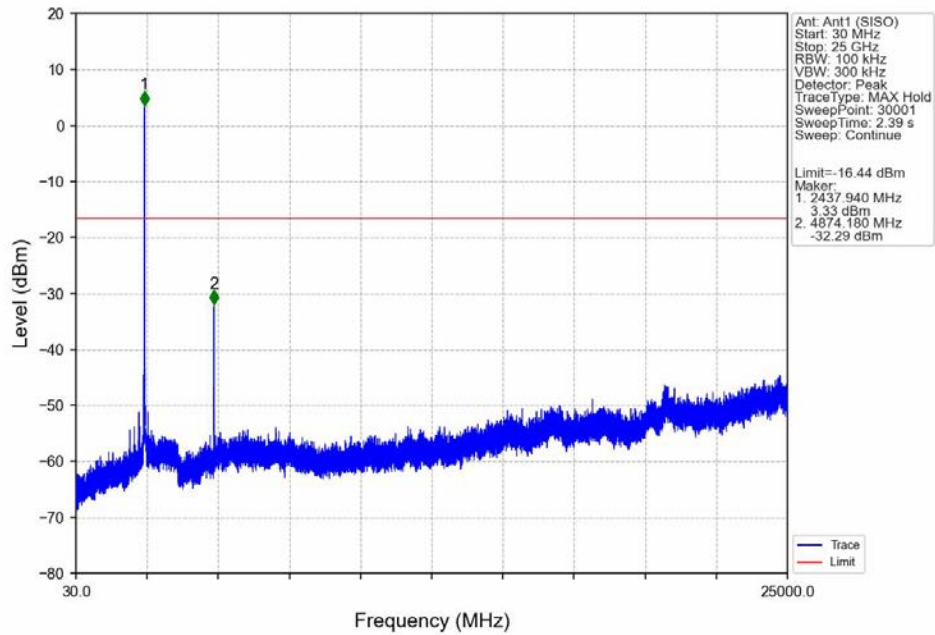
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



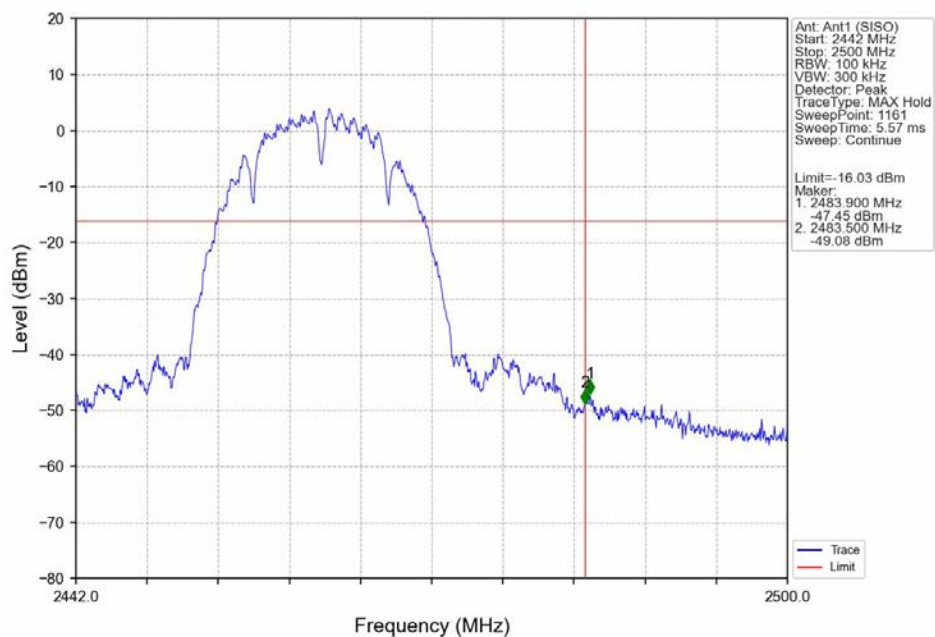
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



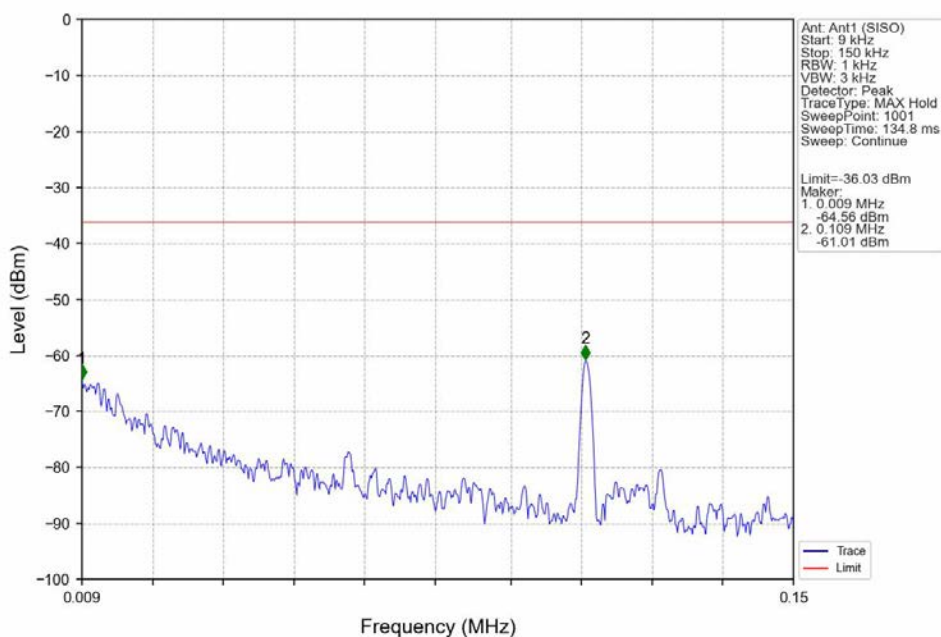
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



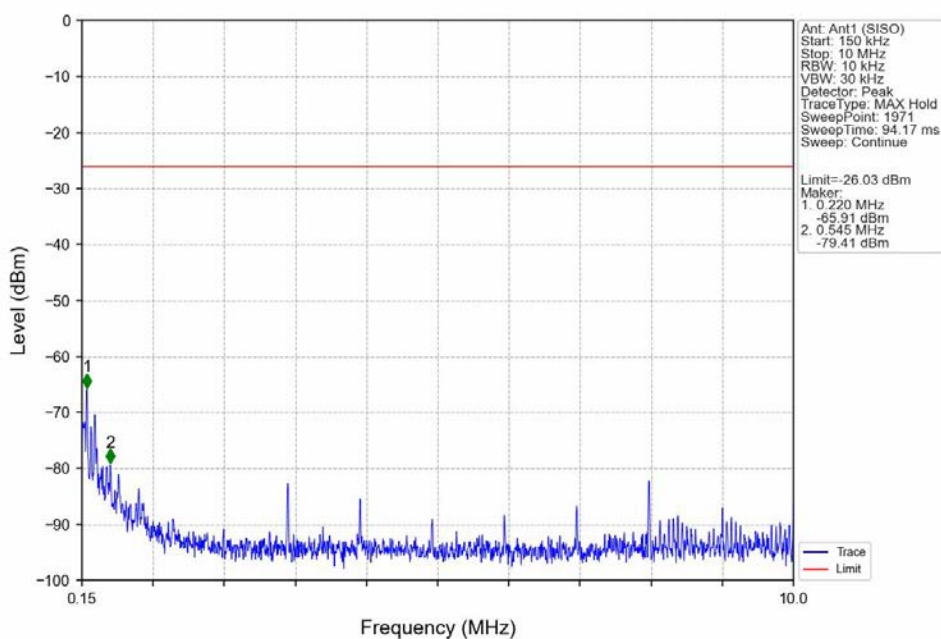
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



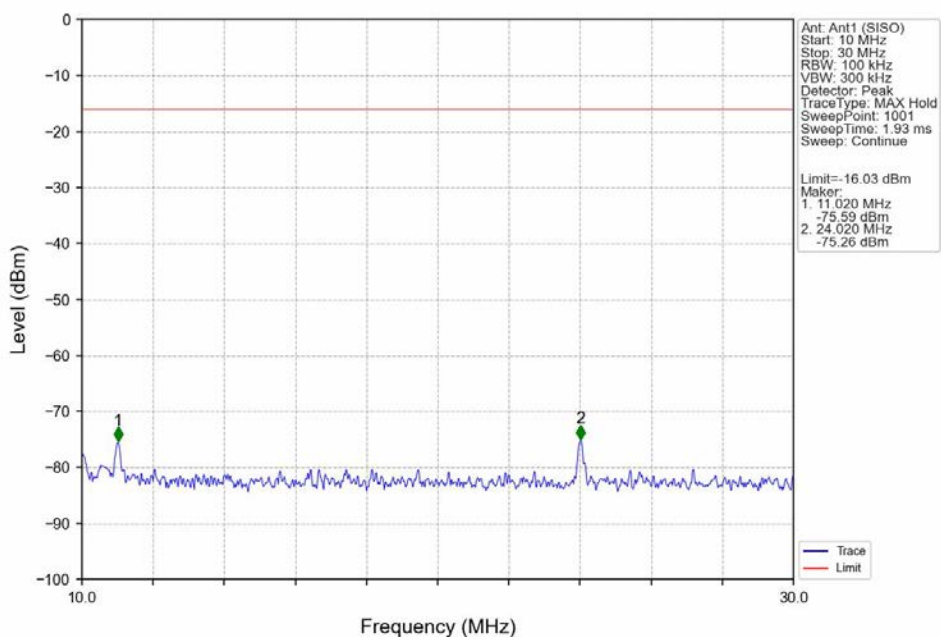
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



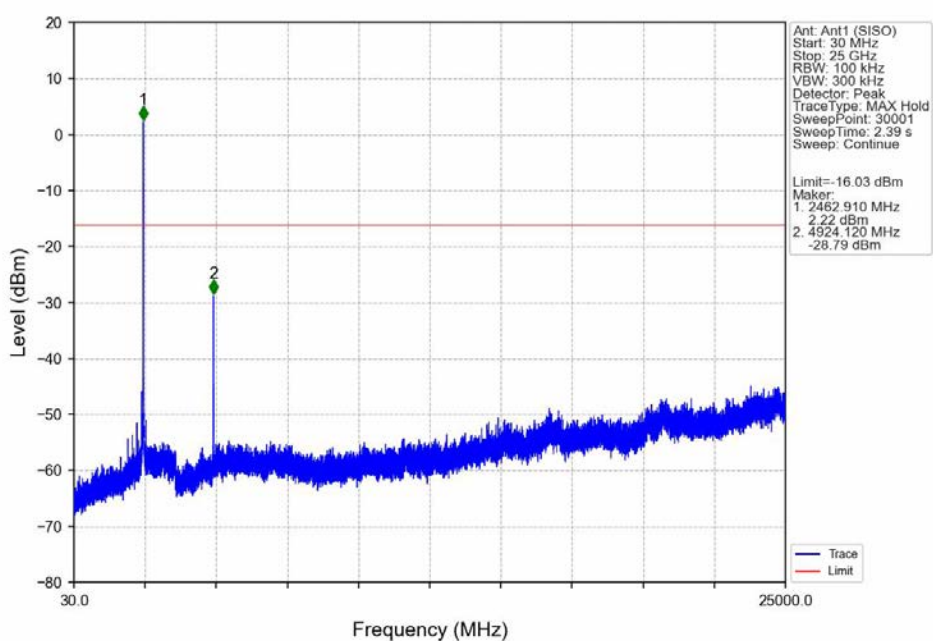
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



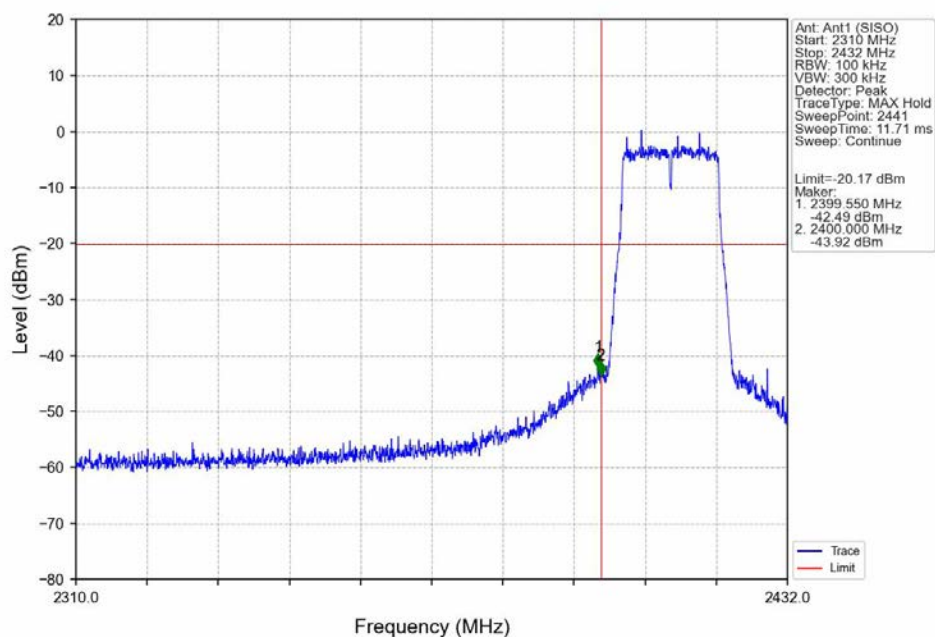
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



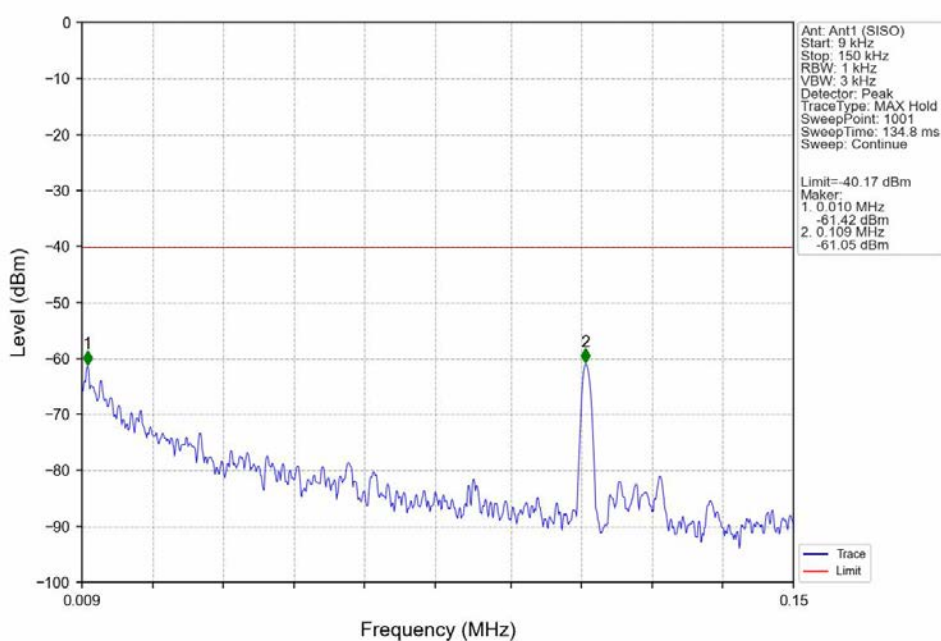
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



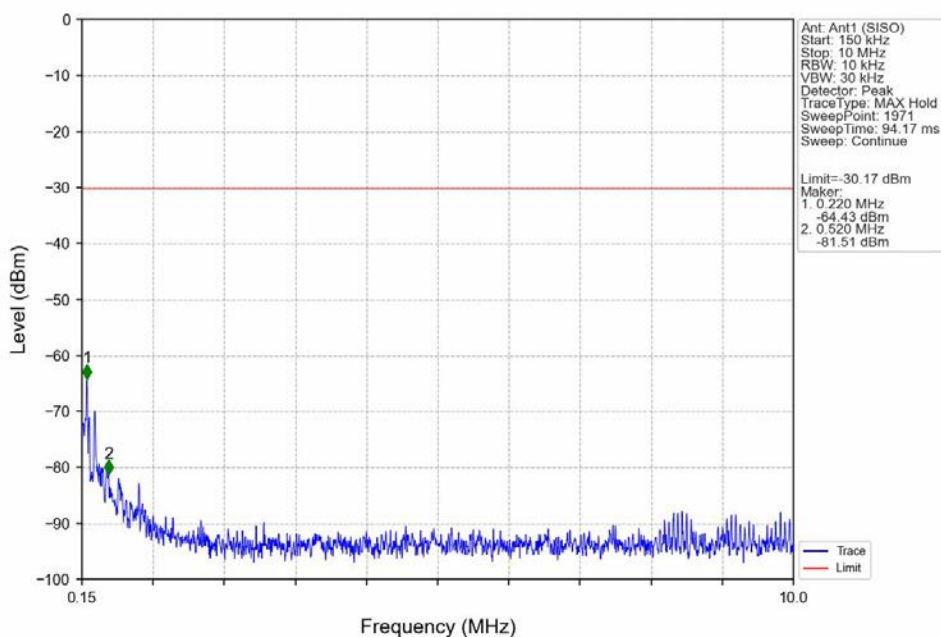
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



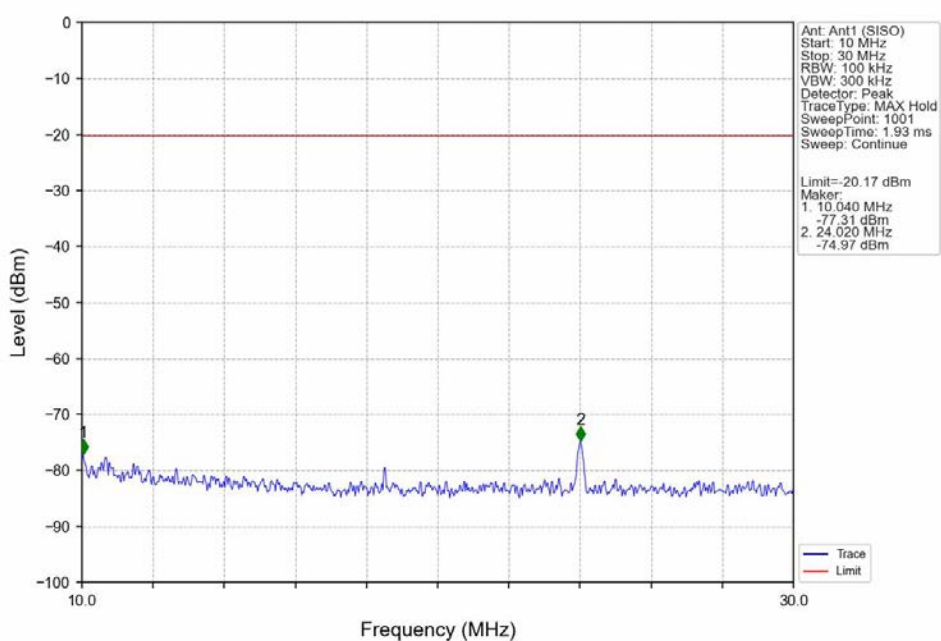
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



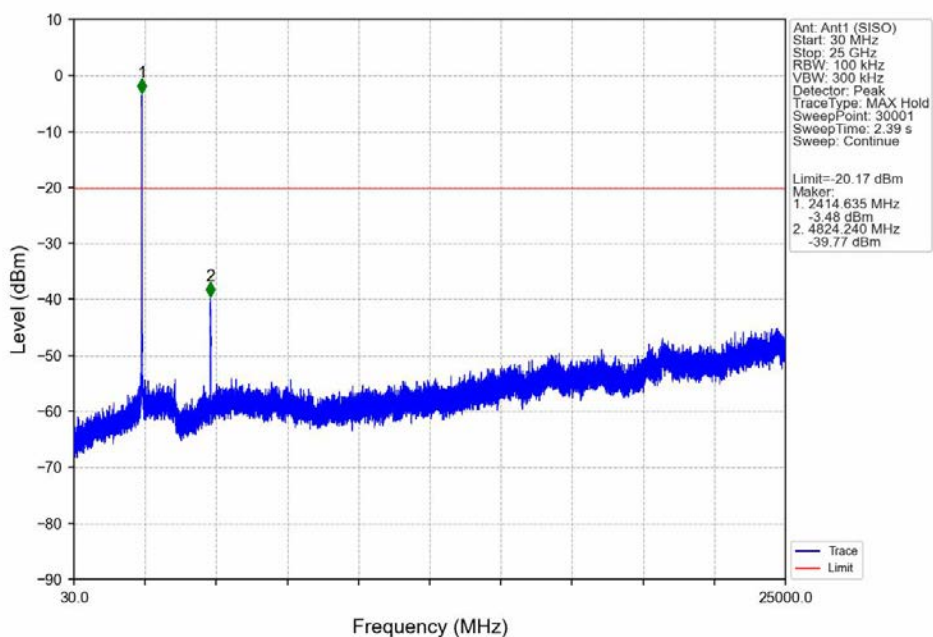
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



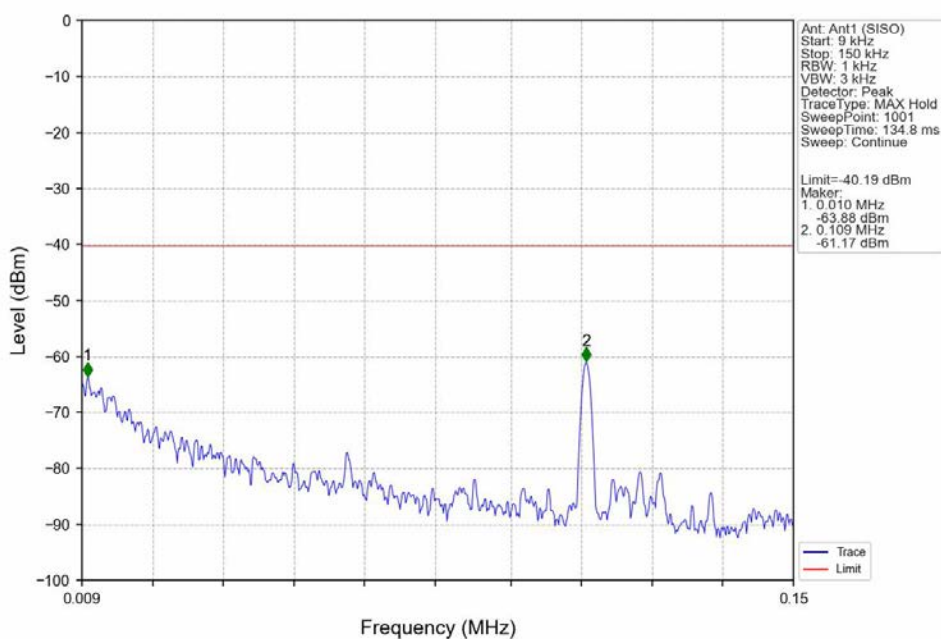
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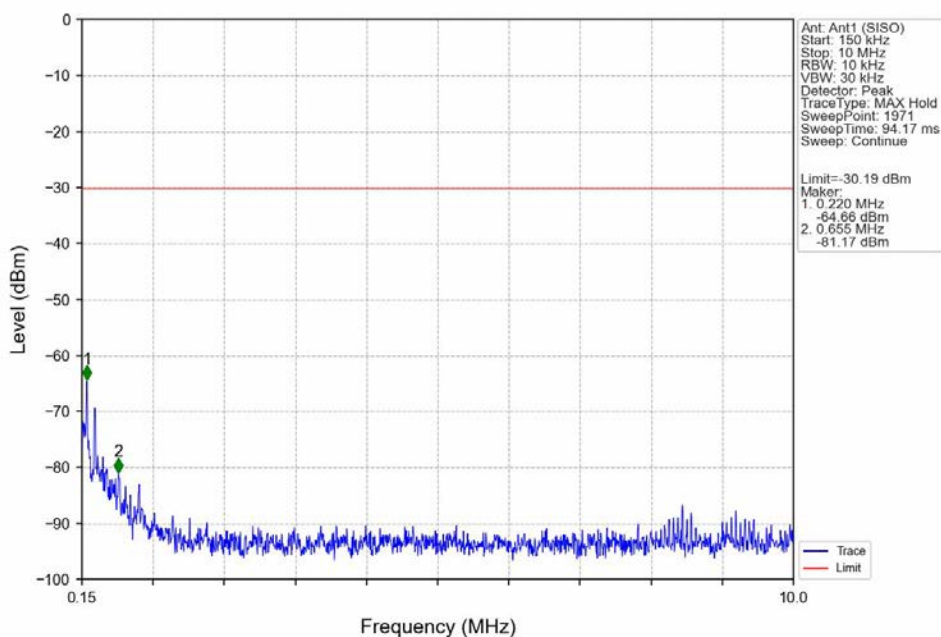
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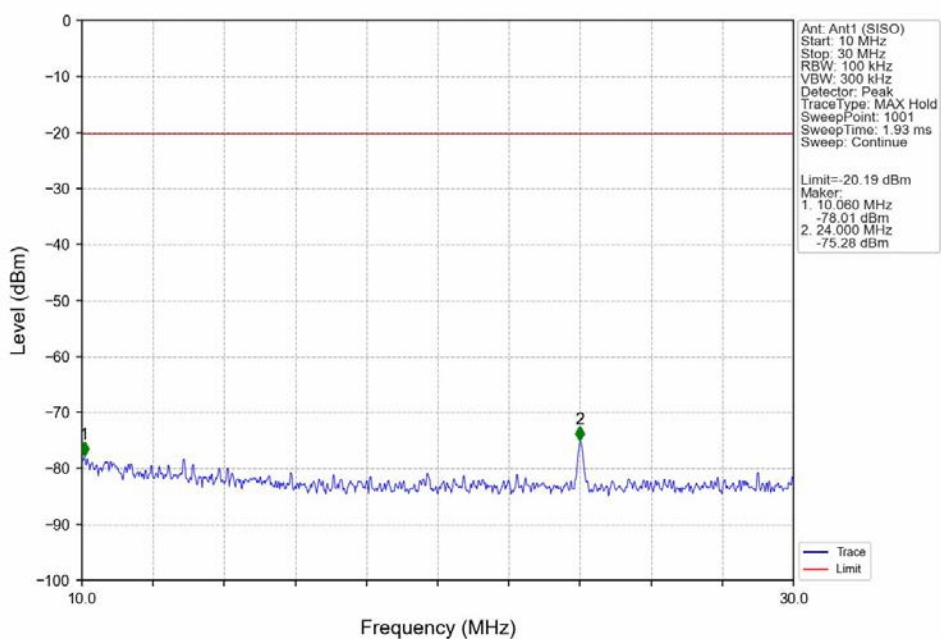
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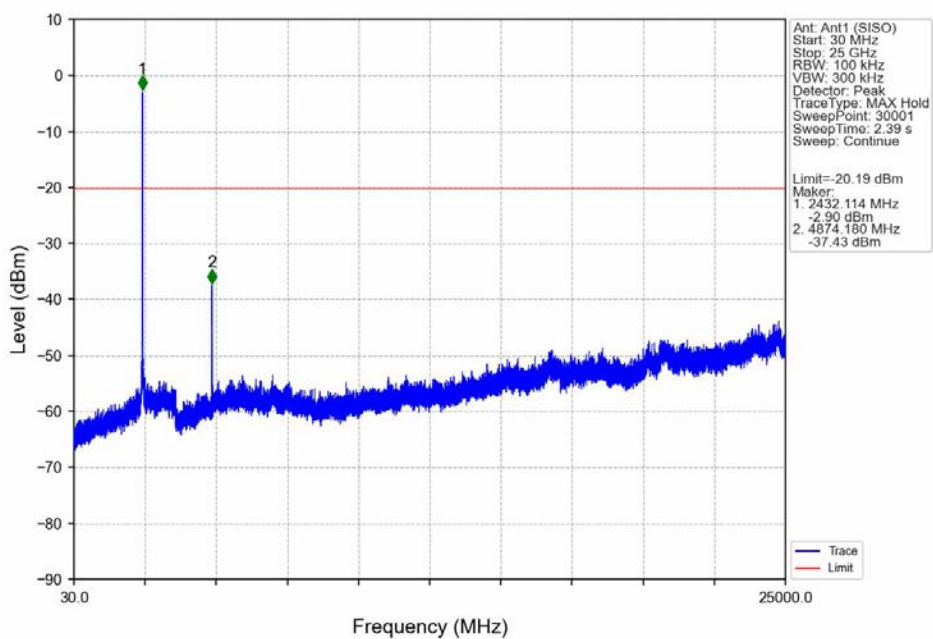
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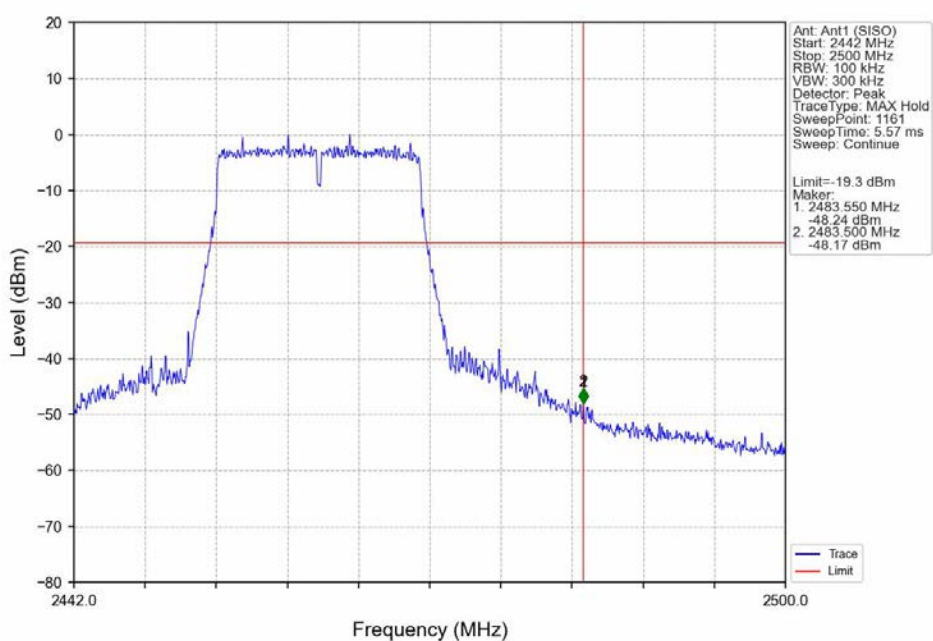
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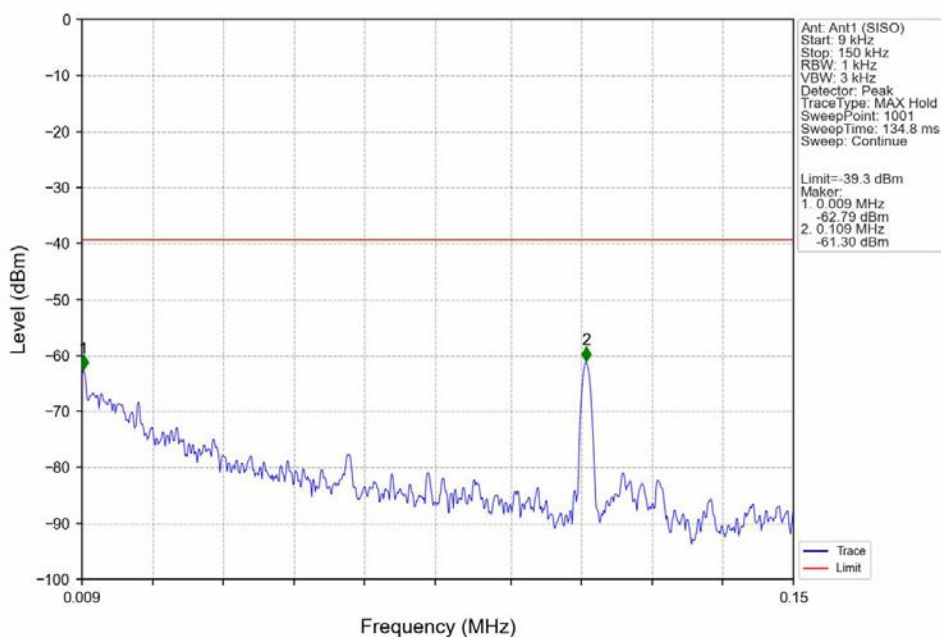
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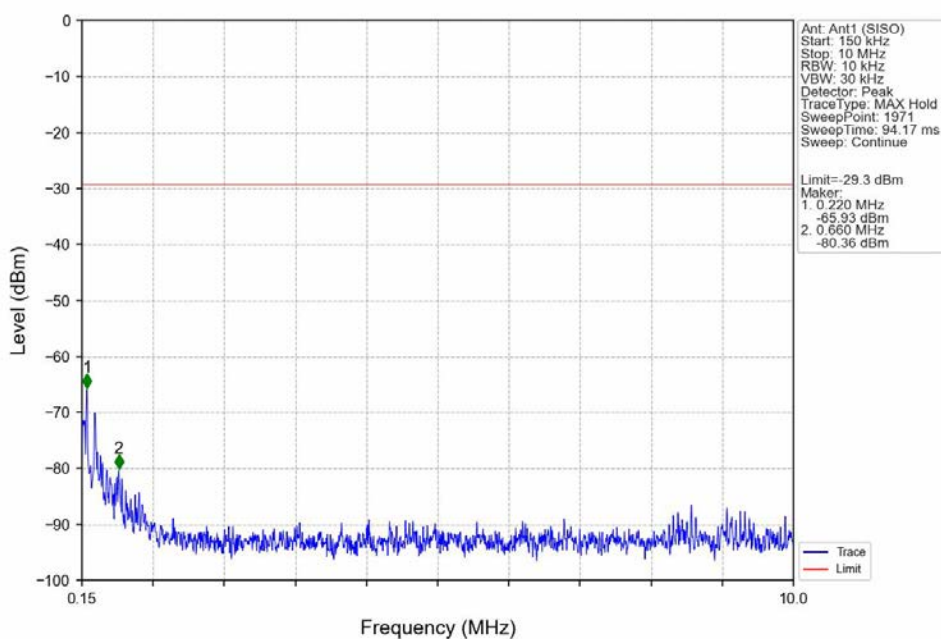
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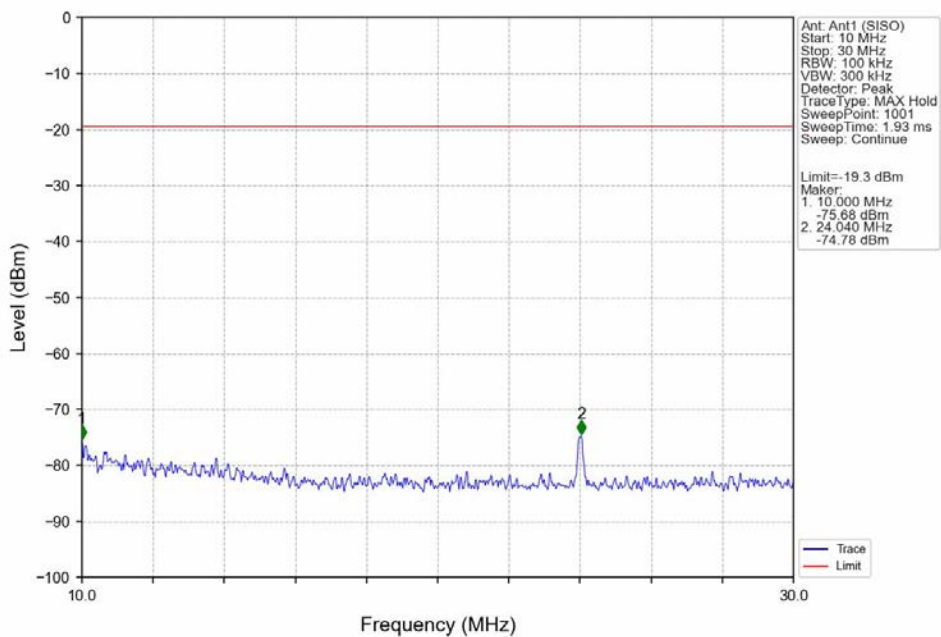
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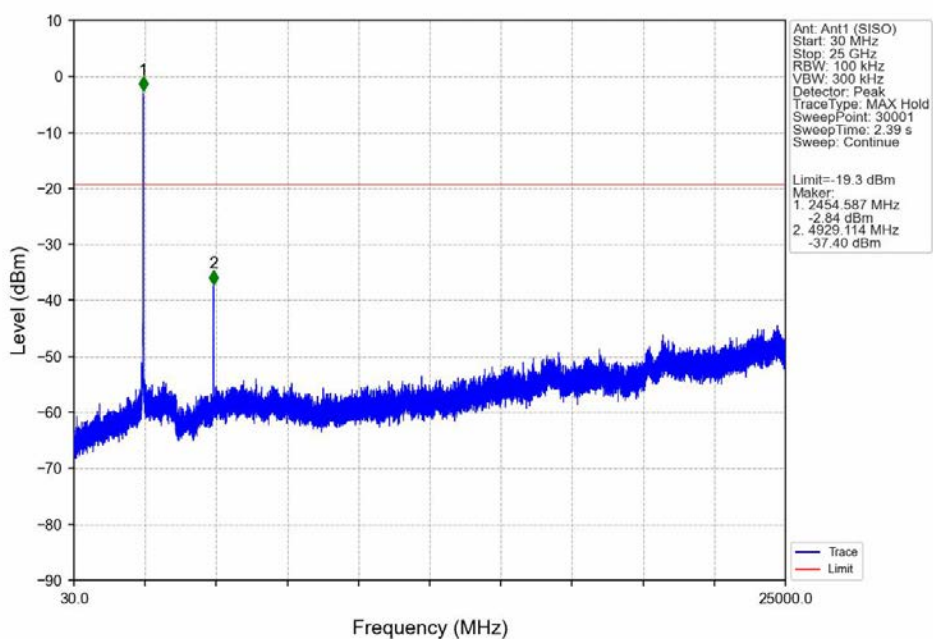
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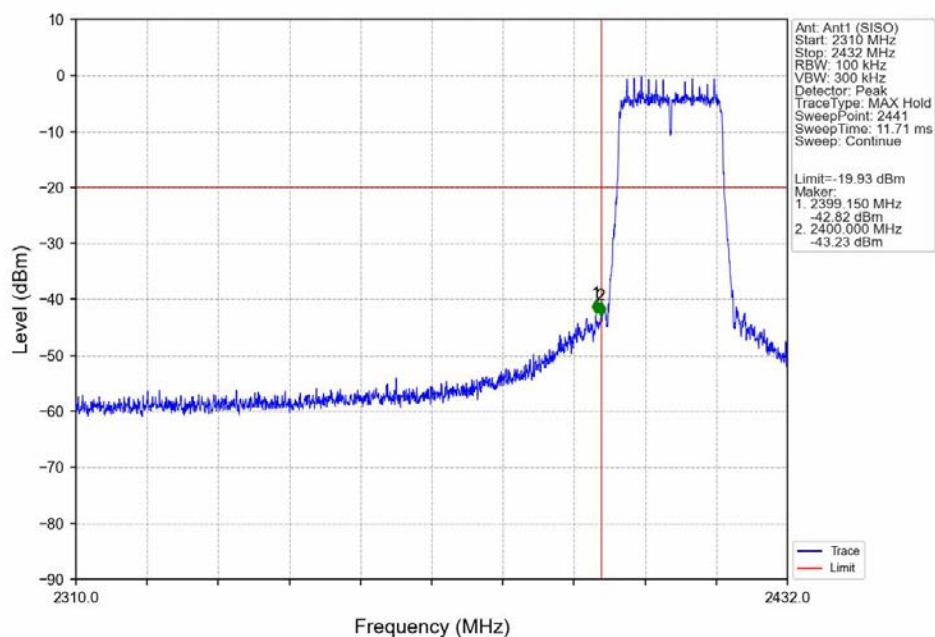
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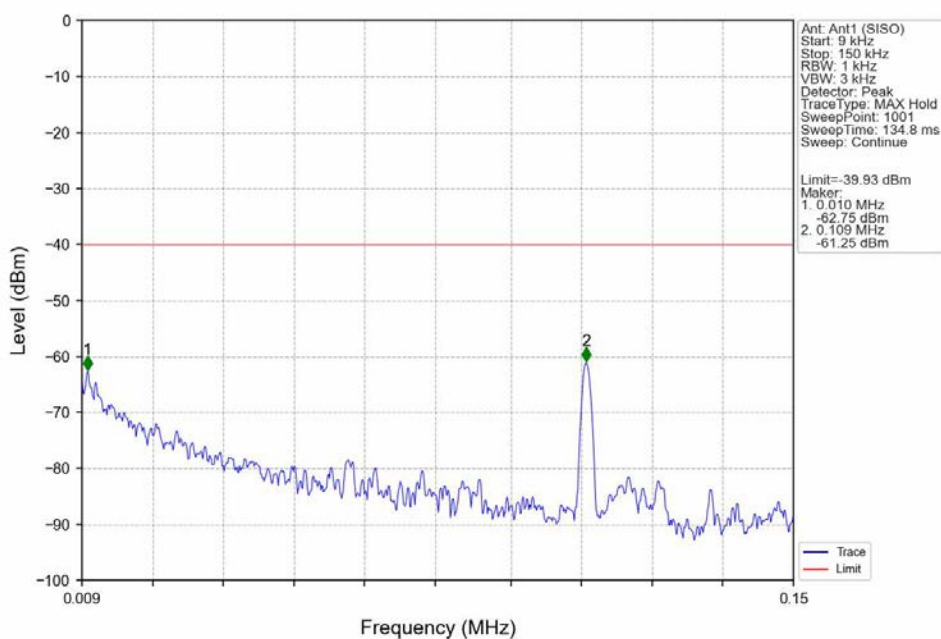
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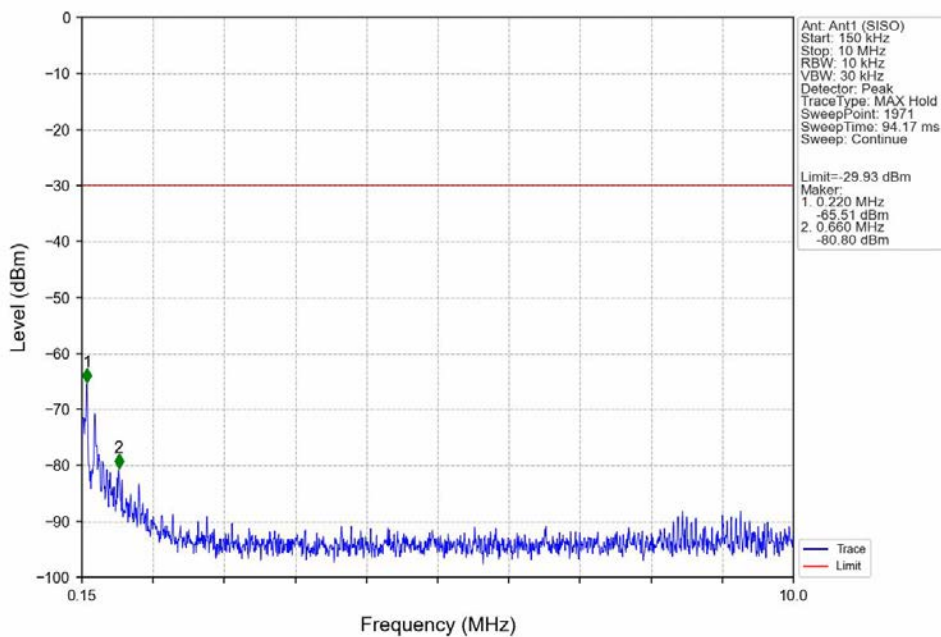
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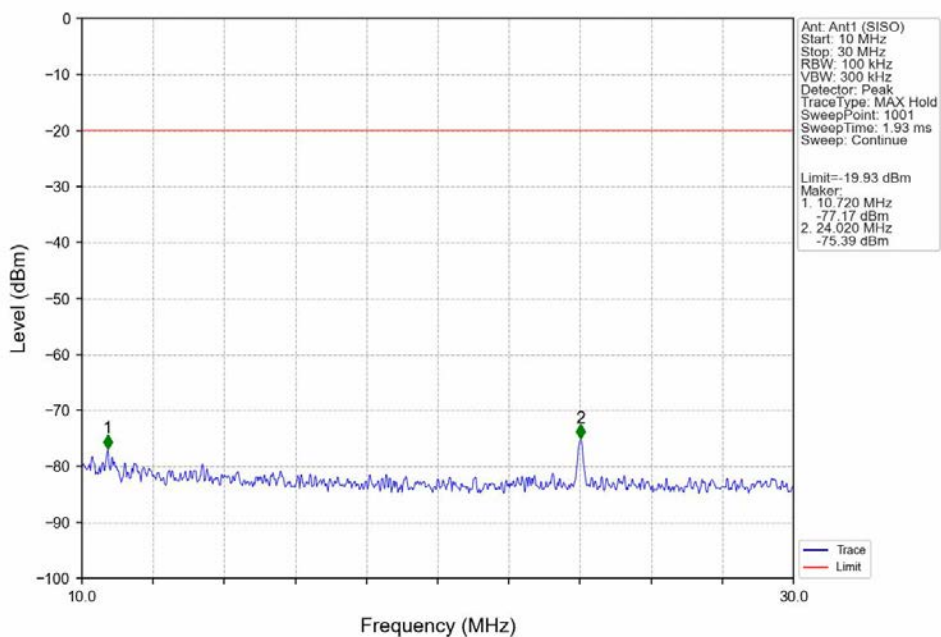
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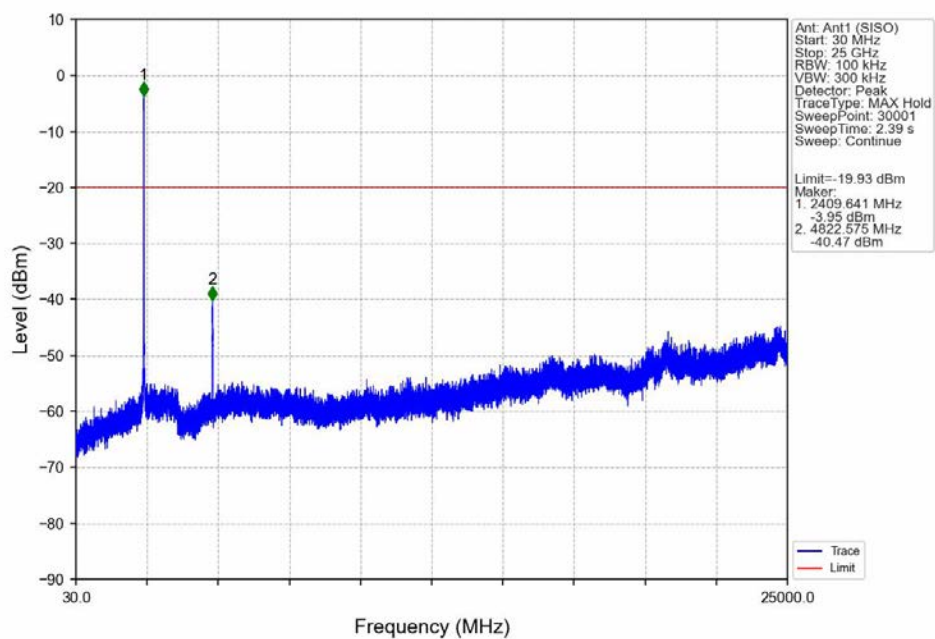
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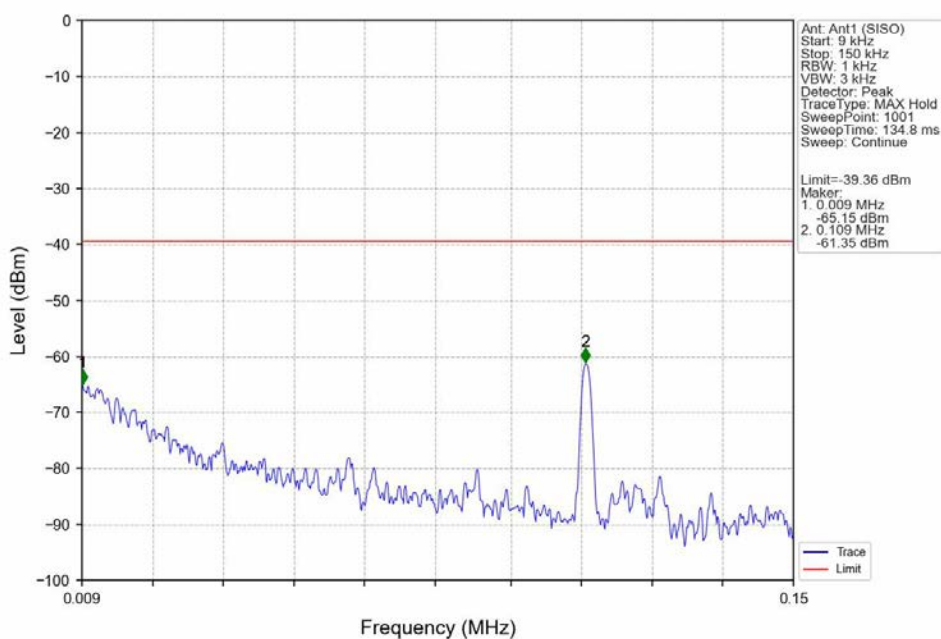
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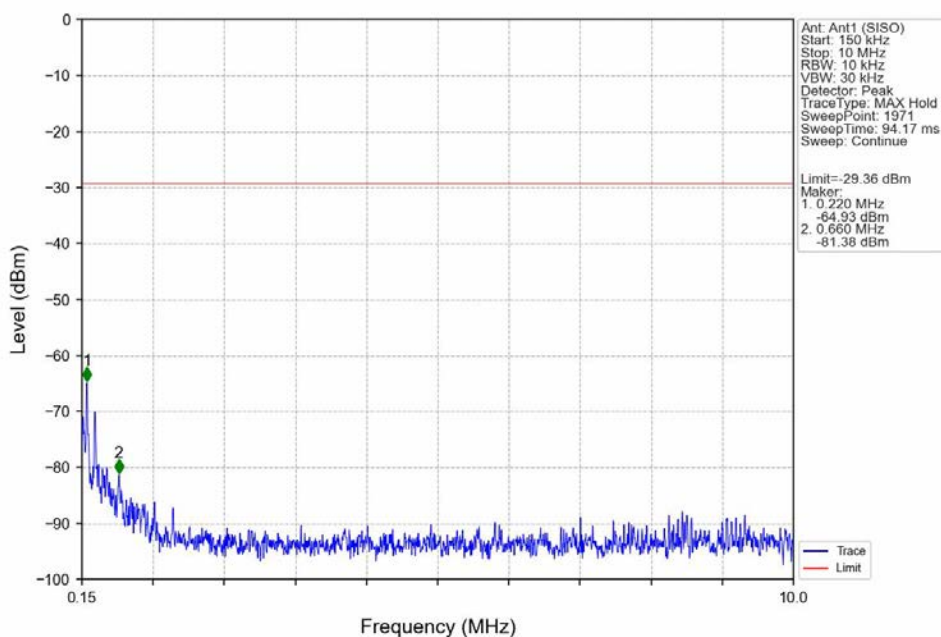
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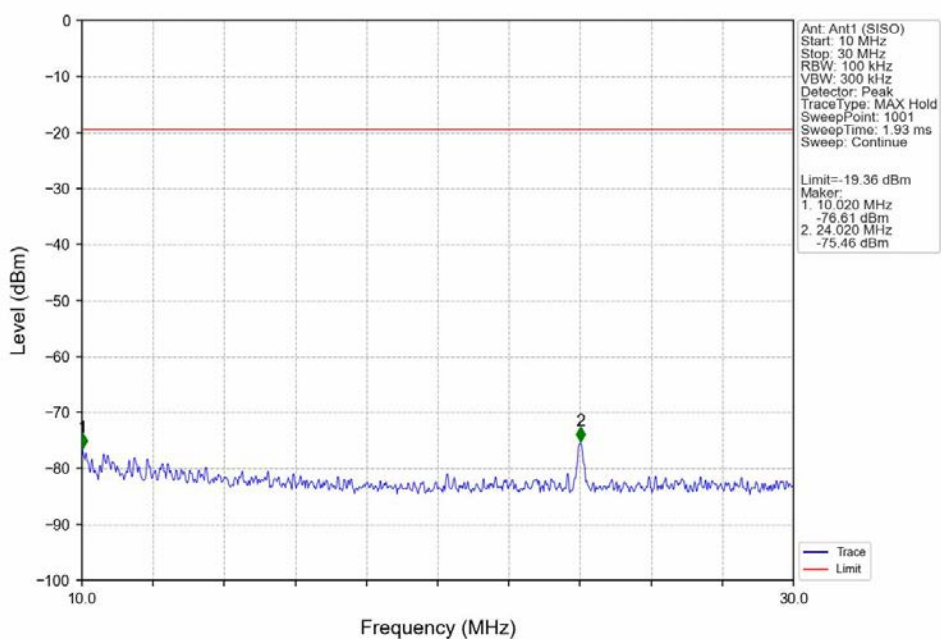
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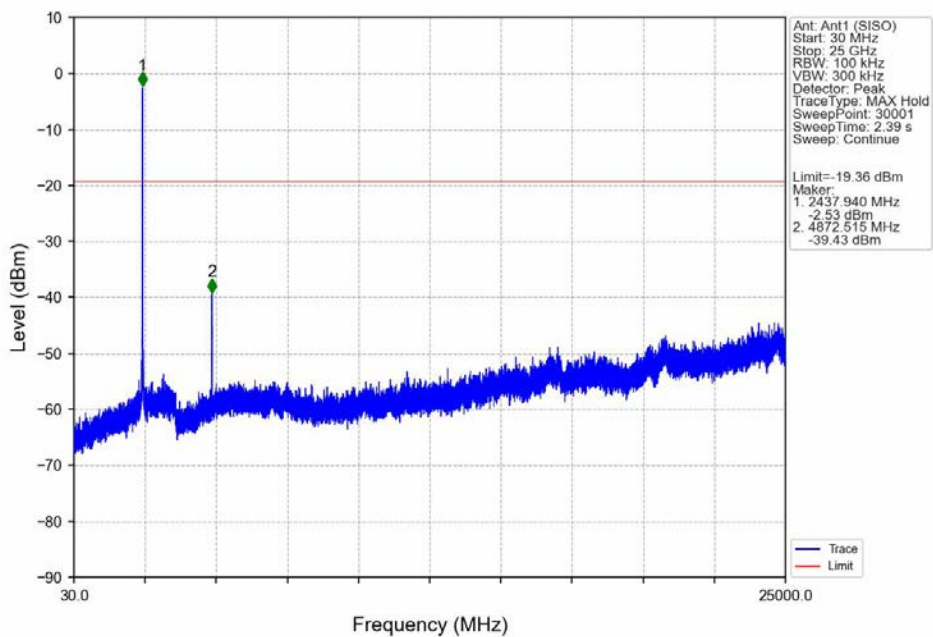
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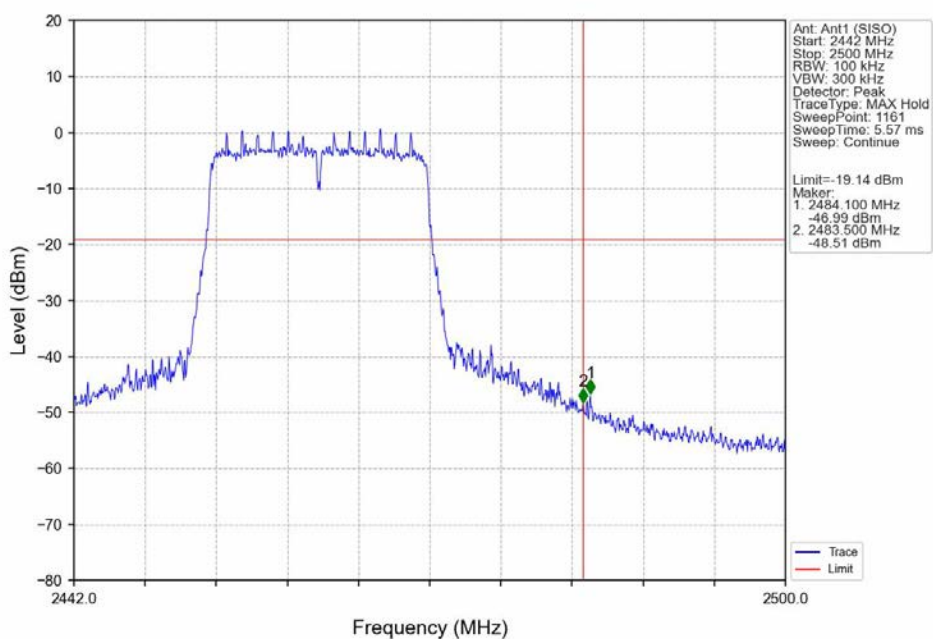
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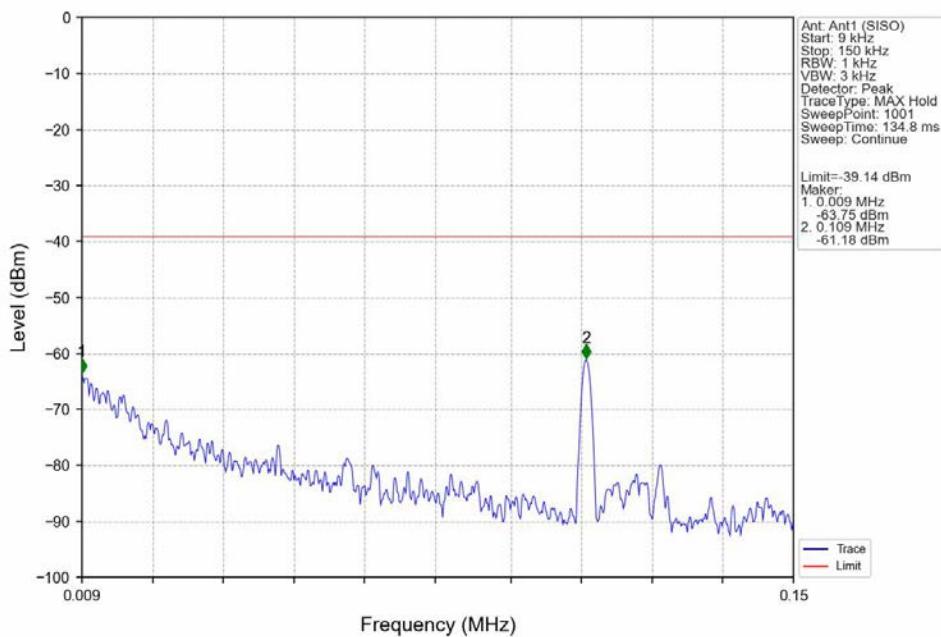
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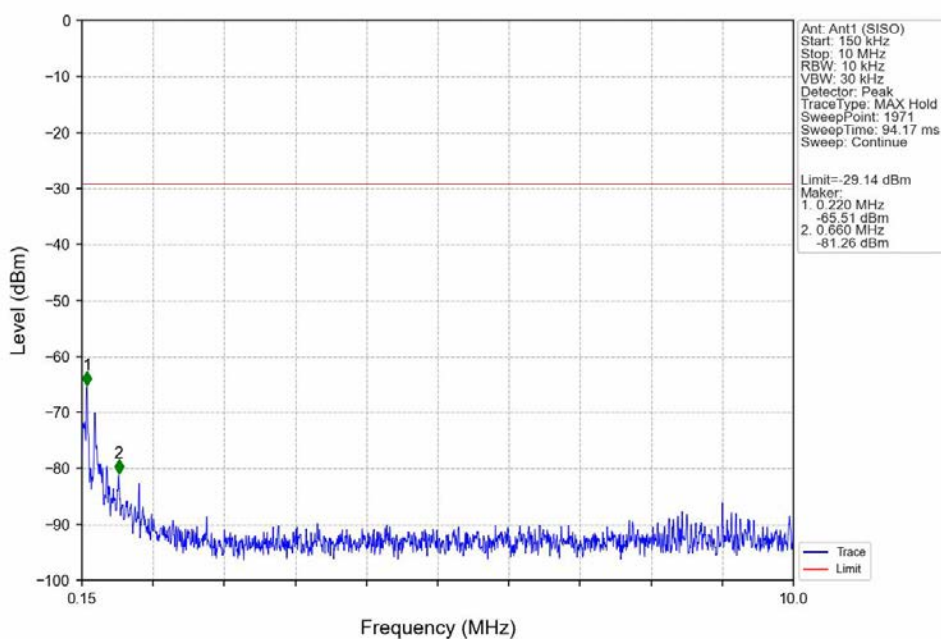
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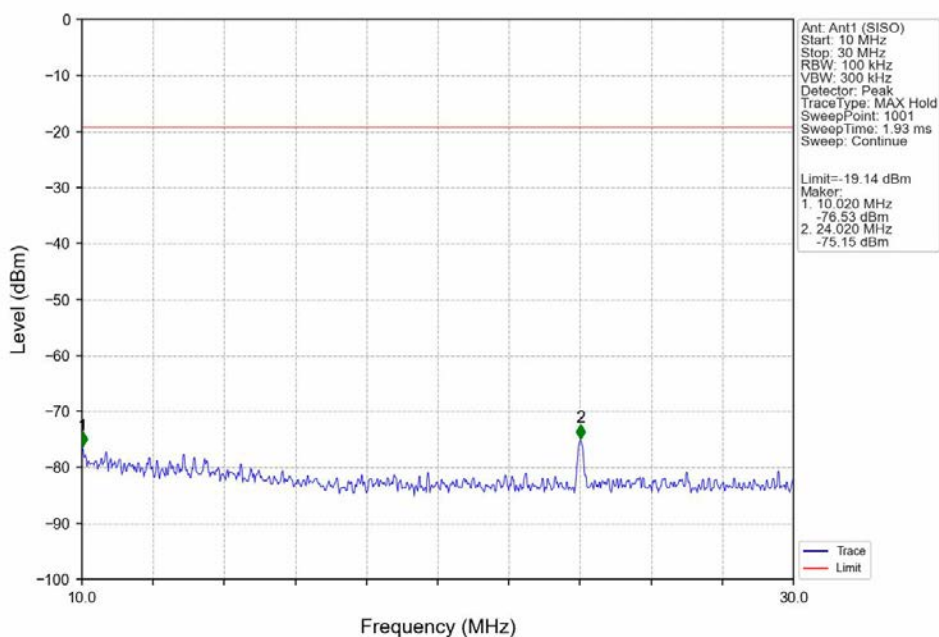
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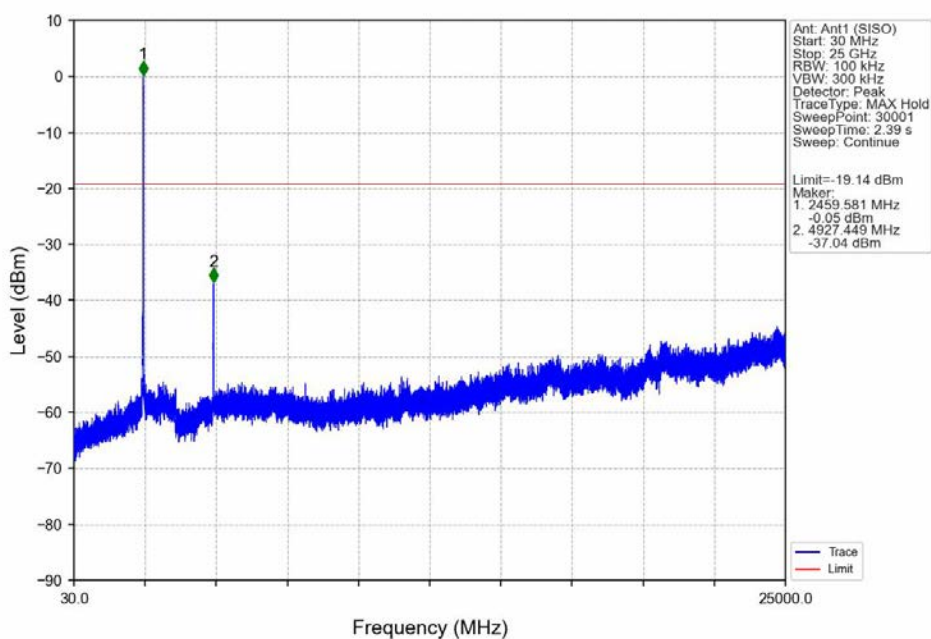
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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