RF Test Report

For

Applicant name:	**Shanghai Huace Navigation Technology Ltd.**
Address:	577 Songying Road, Qingpu District, 201706 Shanghai, China
EUT name:	Geodetic GNSS Receiver
Brand name:	CHCNAV
Model number:	i100
Series model number:	N/A
FCC ID:	SY4-A02066

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:	BTF250722R00102
Test standards:	47 CFR Part 15.247
Test conclusion:	Pass
Date of sample receipt:	2025-07-22
Test date:	2025-07-23 to 2025-09-04
Date of issue:	2025-09-04

Prepared by: Chris Liu — Chris Liu / Project engineer

Approved by: Ryan.CJ — 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	2025-09-04	Original
Note: *Once the revision has been made, then previous versions reports are invalid.*		

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BTF Testing Lab (Shenzhen) Co., Ltd.
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com

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:	Shanghai Huace Navigation Technology Ltd.
Address:	577 Songying Road, Qingpu District, 201706 Shanghai, China

2.2 Manufacturer Information

Company name:	Shanghai Huace Navigation Technology Ltd.
Address:	577 Songying Road, Qingpu District, 201706 Shanghai, China

2.3 Factory Information

Company name:	Shanghai Huace Navigation Technology Ltd.
Address:	577 Songying Road, Qingpu District, 201706 Shanghai, China

2.4 General Description of Equipment under Test (EUT)

EUT name:	Geodetic GNSS Receiver
Under test model name:	i100
Series model name:	N/A
Description of model name differentiation:	N/A
Ratings:	Input: 9V⎓2A, 12V⎓2A, 15V⎓2A Adapter: MODEL:EU204ASAR AC INPUT:100-240Vac, 1.5A, 50-60Hz DC OUTPUT: C:5.0V⎓3.0A 15.0W or 9.0V⎓3.0A 27.0W or 12.0V⎓3.0A 36.0W or 15.0V⎓3.0A 45.0W or 12.0V⎓3.0A 36.0W or 15.0V⎓3.0A 45.0W or 20.0V⎓2.25A 45.0W A:5.0V⎓3.0A 15.0W or 9.0V⎓2.0A 18.0W or 12.0V⎓1.5A 18.0W C+A: C: 5.0V⎓3.0A 15.0W or 9.0V⎓2.22A 20.0W or 12.0V⎓1.66A 20.0W or 15.0V⎓0.33A 20.0W or 20.0V⎓1.0A 20.0W A:5.0V⎓2.0A 10.0W

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2.5 Technical Information

Operation Frequency:	2402MHz to 2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation technology:	GFSK
Max. Conducted Power:	9.65dBm
Antenna type:	Internal Antenna
Antenna gain:	0.56dBi

Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

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3 Summary of Test Results

3.1 Test Standards

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

3.2 Uncertainty of Test

Measurement	Value
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.45 dB
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 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.	

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
6dB Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Remark: *1. Pass: Meet the requirements.* *2. N/A: not applicable.*			

3.4 Additions to, deviations, or exclusions from the method

None

4 Test Configuration

4.1 Test Equipment List

Conducted Emission at AC power line					
Test Equipment	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	/	/
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	/	/
Test Software	Frad	EZ_EMC	Version: EMC-CON 3A1.1+	/	/

Power Spectral Density Emissions in non-restricted frequency bands 6dB Bandwidth Maximum Conducted Output Power					
Test Equipment	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	/	/

Band edge emissions (Radiated) Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz)					
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	Schwarzbeck	BBHA9120D	2597	2024-10-30	2025-10-29
Preamplifier (1GHz ~ 18GHz)	Schwarzbeck	BBV9718D	00008	2024-09-24	2025-09-23
Test Software	Frad	EZ_EMC	Version: FA-03A2 RE+	/	/

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4.2 Test Auxiliary Equipment

The EUT has been tested as an independent unit.

4.3 Test Modes

No.	Test Modes
TM1	TX mode

4.4 Test Channel of EUT

Operation Band: 2400-2483.5 MHz

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
1	2402	2440	2480
2	2402	2440	2480

4.5 Test software

Test software:	Version:	Power Class:
MobaXterm_Portable	v20.5	default

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

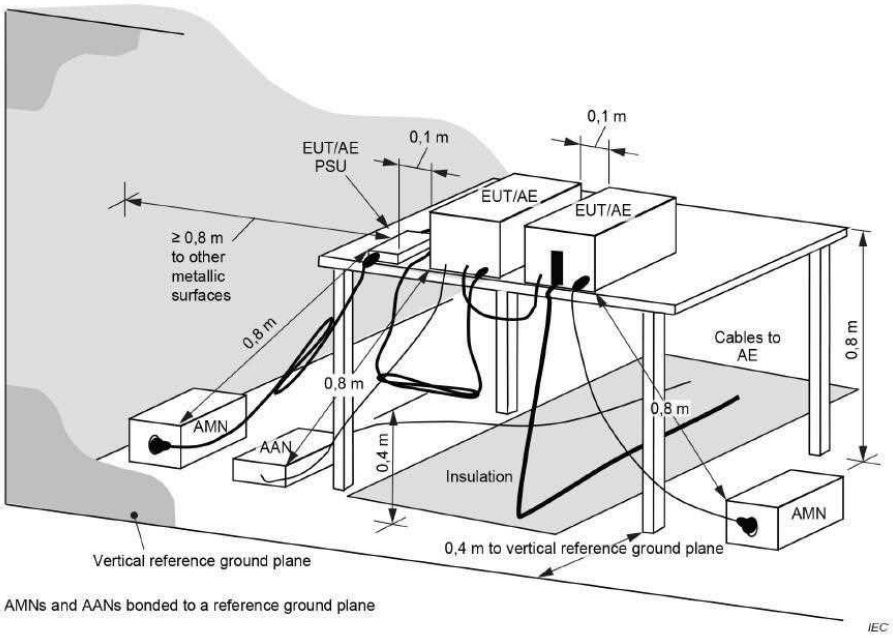
Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
Operating Environment:	
Temperature:	24 °C
Humidity:	45.1 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

5.1.1 Conclusion

The Bluetooth antenna is an Internal antenna which permanently attached, and the best case gain of the antenna is 0.0dBi. See product internal photos for details.

6 Radio Spectrum Matter Test Results (RF)

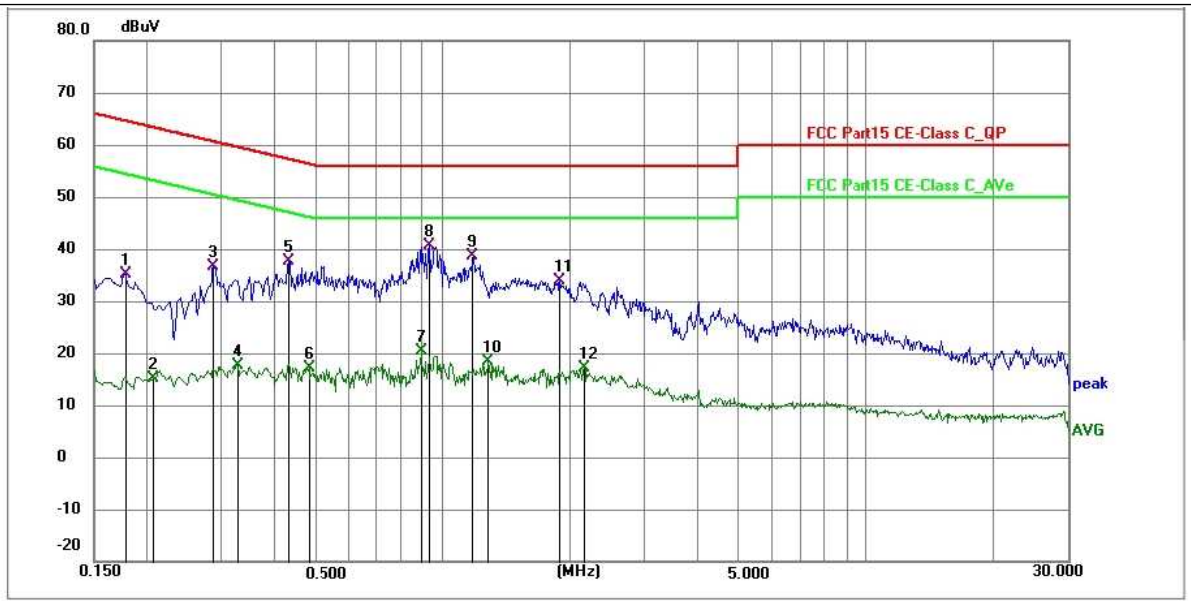
6.1 Conducted Emission at AC power line

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 μH/50 ohms line impedance stabilization network (LISN).
Test Method:	ANSI C63.10-2020 section 6.2
Test Limit:	Frequency of emission (MHz) / Conducted limit (dBμV): 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.
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices
Test Setup:	
Operating Environment:	
Temperature:	24 °C
Humidity:	45.1 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

6.1.1 Test Data

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

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 2 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1770	24.55	10.61	35.16	64.63	-29.47	QP	P	
2	0.2061	4.36	10.66	15.02	53.36	-38.34	AVG	P	
3	0.2850	26.05	10.66	36.71	60.67	-23.96	QP	P	
4	0.3255	6.87	10.67	17.54	49.57	-32.03	AVG	P	
5	0.4290	26.97	10.67	37.64	57.27	-19.63	QP	P	
6	0.4811	6.35	10.67	17.02	46.32	-29.30	AVG	P	
7	0.8921	9.52	10.77	20.29	46.00	-25.71	AVG	P	
8 *	0.9375	29.87	10.81	40.68	56.00	-15.32	QP	P	
9	1.1849	27.77	10.82	38.59	56.00	-17.41	QP	P	
10	1.2839	7.69	10.80	18.49	46.00	-27.51	AVG	P	
11	1.8960	23.08	10.70	33.78	56.00	-22.22	QP	P	
12	2.1660	6.35	10.69	17.04	46.00	-28.96	AVG	P	

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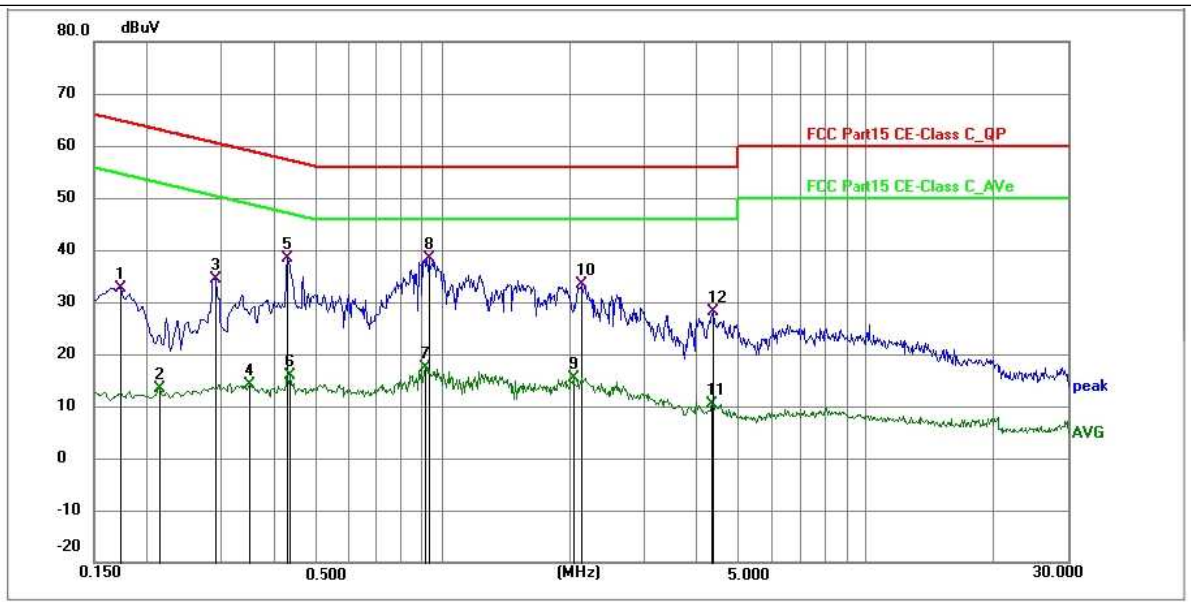
TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 2 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1723	22.08	10.55	32.63	64.85	-32.22	QP	P	
2	0.2130	2.75	10.57	13.32	53.09	-39.77	AVG	P	
3	0.2893	23.79	10.62	34.41	60.54	-26.13	QP	P	
4	0.3480	3.44	10.67	14.11	49.01	-34.90	AVG	P	
5	0.4282	27.57	10.72	38.29	57.29	-19.00	QP	P	
6	0.4334	5.06	10.73	15.79	47.19	-31.40	AVG	P	
7	0.9150	6.61	10.87	17.48	46.00	-28.52	AVG	P	
8 *	0.9284	27.56	10.87	38.43	56.00	-17.57	QP	P	
9	2.0400	4.39	10.98	15.37	46.00	-30.63	AVG	P	
10	2.1345	22.34	10.97	33.31	56.00	-22.69	QP	P	
11	4.3350	-0.46	10.95	10.49	46.00	-35.51	AVG	P	
12	4.3530	17.14	10.95	28.09	56.00	-27.91	QP	P	

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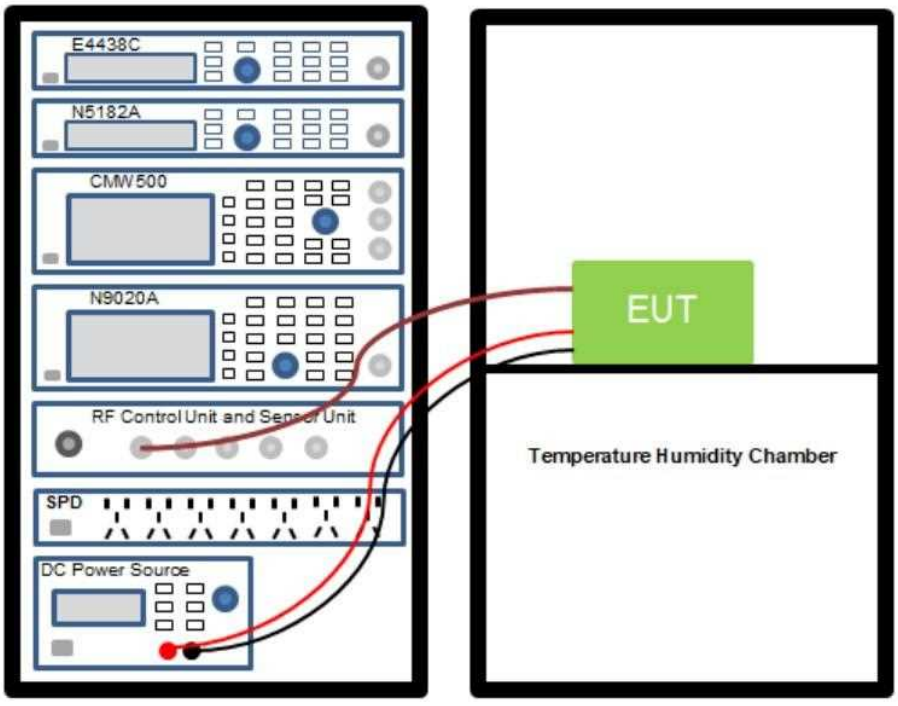
6.2 6dB Bandwidth

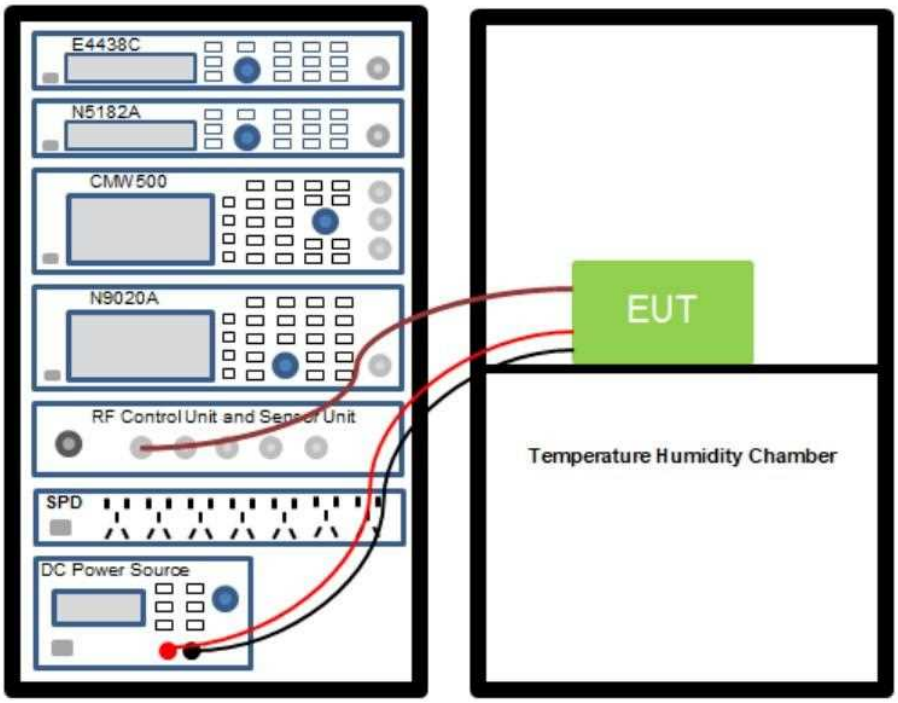
Test Requirement:	47 CFR 15.247(a)(2)
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
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 ≥ [3 × 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 ≥ 3 × 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.
Test Setup:	
Operating Environment:	

Temperature:	23.1 °C
Humidity:	50.3 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

6.2.1 Test Data

Please Refer to Appendix for Details.

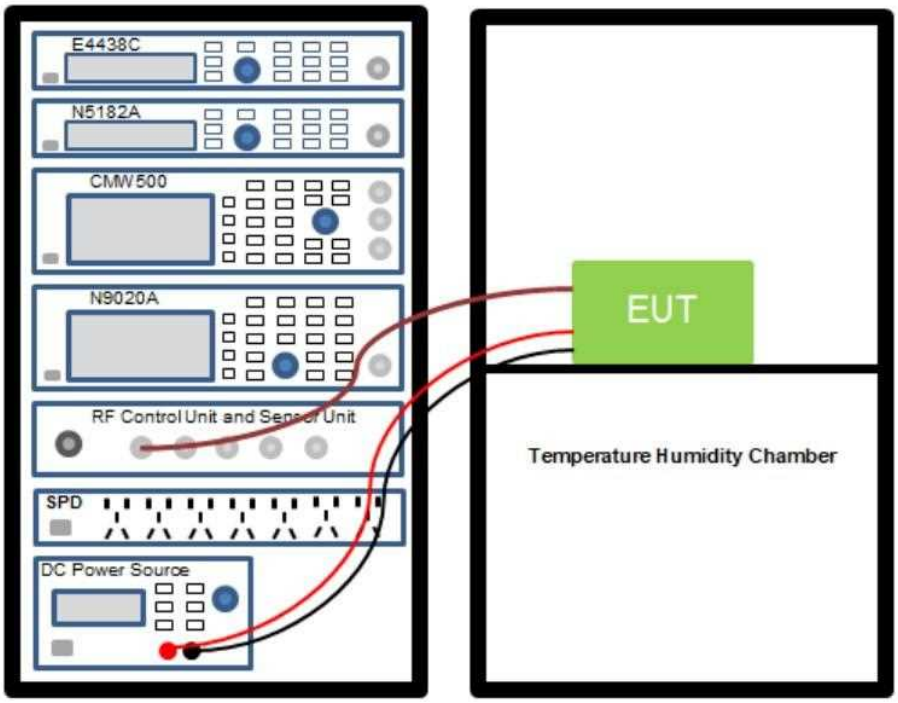
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
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.
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power
Test Setup:	
Operating Environment:	
Temperature:	23.1 °C
Humidity:	50.3 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

6.3.1 Test Data

Please Refer to Appendix for Details.

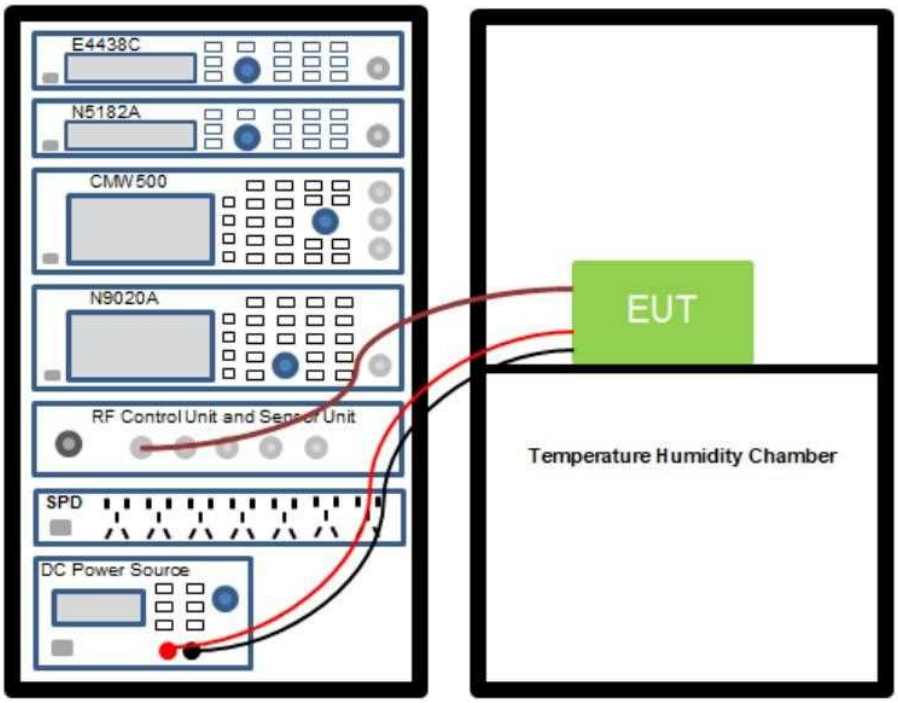
6.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
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.
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission
Test Setup:	
Operating Environment:	
Temperature:	23.1 °C
Humidity:	50.3 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

6.4.1 Test Data

Please Refer to Appendix for Details.

6.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
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.
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3
Test Setup:	
Operating Environment:	
Temperature:	23.1 °C
Humidity:	50.3 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

6.5.1 Test Data

Please Refer to Appendix for Details.

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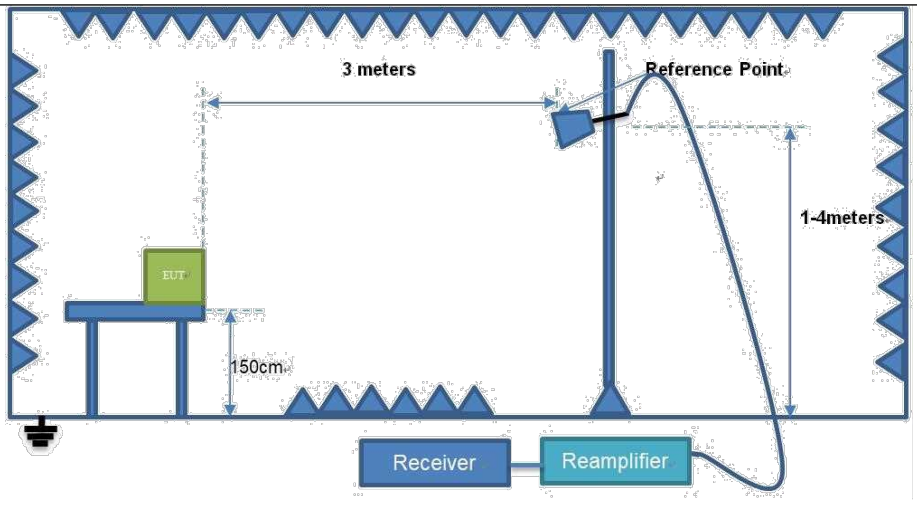
6.6 Band edge emissions (Radiated)

<table>
<tr><td>Test Requirement:</td><td>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)).`</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020 section 6.10
KDB 558074 D01 15.247 Meas Guidance v05r02</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** 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.</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2020 section 6.10.5.2</td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td colspan="2">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>23.1 °C</td></tr>
<tr><td>Humidity:</td><td>50.3 %</td></tr>
<tr><td>Atmospheric Pressure:</td><td>1010 mbar</td></tr>
<tr><td>Test voltage:</td><td>AC 120V 60Hz</td></tr>
</table>

6.6.1 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	52.15	3.85	56.01	74.00	-17.99	Peak	Pass
2310.00	42.17	3.85	46.02	54.00	-7.98	AVG	Pass
2390.00	52.44	3.91	56.36	74.00	-17.64	Peak	Pass
2390.00	41.69	3.91	45.61	54.00	-8.39	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	51.46	3.85	55.31	74.00	-18.69	Peak	Pass
2310.00	40.91	3.85	44.77	54.00	-9.23	AVG	Pass
2390.00	51.77	3.91	55.68	74.00	-18.32	Peak	Pass
2390.00	42.09	3.91	46.00	54.00	-8.00	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	50.91	3.99	54.90	74.00	-19.10	Peak	Pass
2483.50	40.93	3.99	44.92	54.00	-9.08	AVG	Pass
2500.00	51.19	4.00	55.19	74.00	-18.81	Peak	Pass
2500.00	40.48	4.00	44.48	54.00	-9.52	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	52.32	3.99	56.31	74.00	-17.69	Peak	Pass
2483.50	41.56	3.99	45.55	54.00	-8.45	AVG	Pass
2500.00	51.13	4.00	55.13	74.00	-18.87	Peak	Pass
2500.00	40.34	4.00	44.34	54.00	-9.66	AVG	Pass

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

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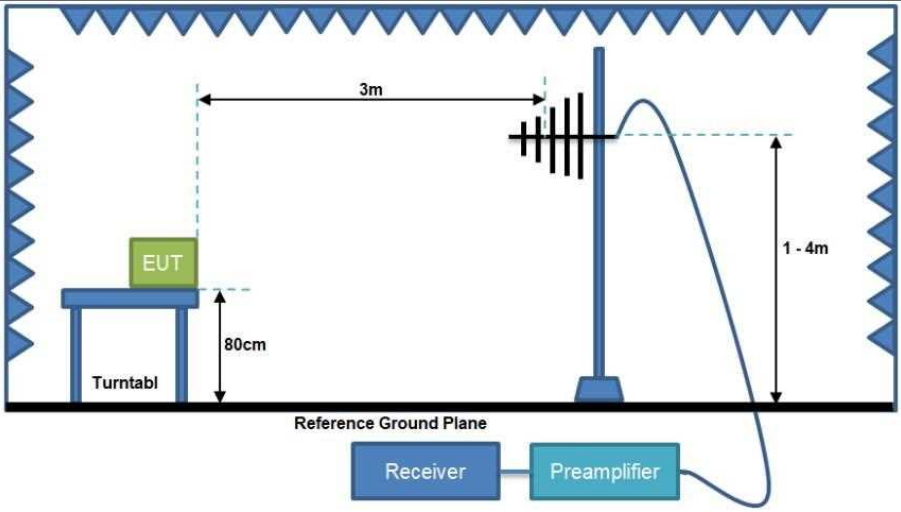
6.7 Emissions in frequency bands (below 1GHz)

<table>
<tr><td>Test Requirement:</td><td>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)).`</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020 section 6.6.4
KDB 558074 D01 15.247 Meas Guidance v05r02</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** 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.</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2020 section 6.6.4</td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td colspan="2">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>23.1 °C</td></tr>
<tr><td>Humidity:</td><td>50.3 %</td></tr>
<tr><td>Atmospheric Pressure:</td><td>1010 mbar</td></tr>
<tr><td>Test voltage:</td><td>AC 120V 60Hz</td></tr>
</table>

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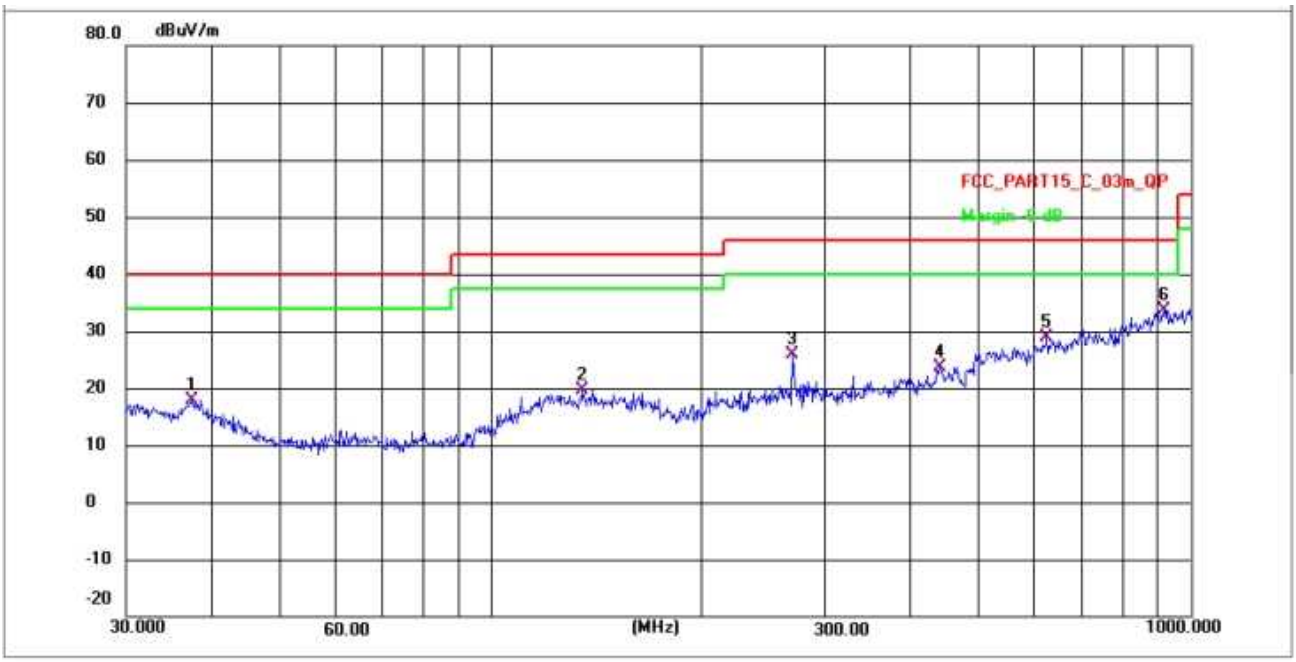
6.7.1 Test Data

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	37.4164	27.64	-9.66	17.98	40.00	-22.02	QP	P
2	135.5061	41.89	-22.14	19.75	43.50	-23.75	QP	P
3	269.9011	46.65	-20.88	25.77	46.00	-20.23	QP	P
4	437.8870	43.14	-19.51	23.63	46.00	-22.37	QP	P
5	622.8900	46.98	-18.17	28.81	46.00	-17.19	QP	P
6 *	917.6762	49.76	-16.11	33.65	46.00	-12.35	QP	P

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

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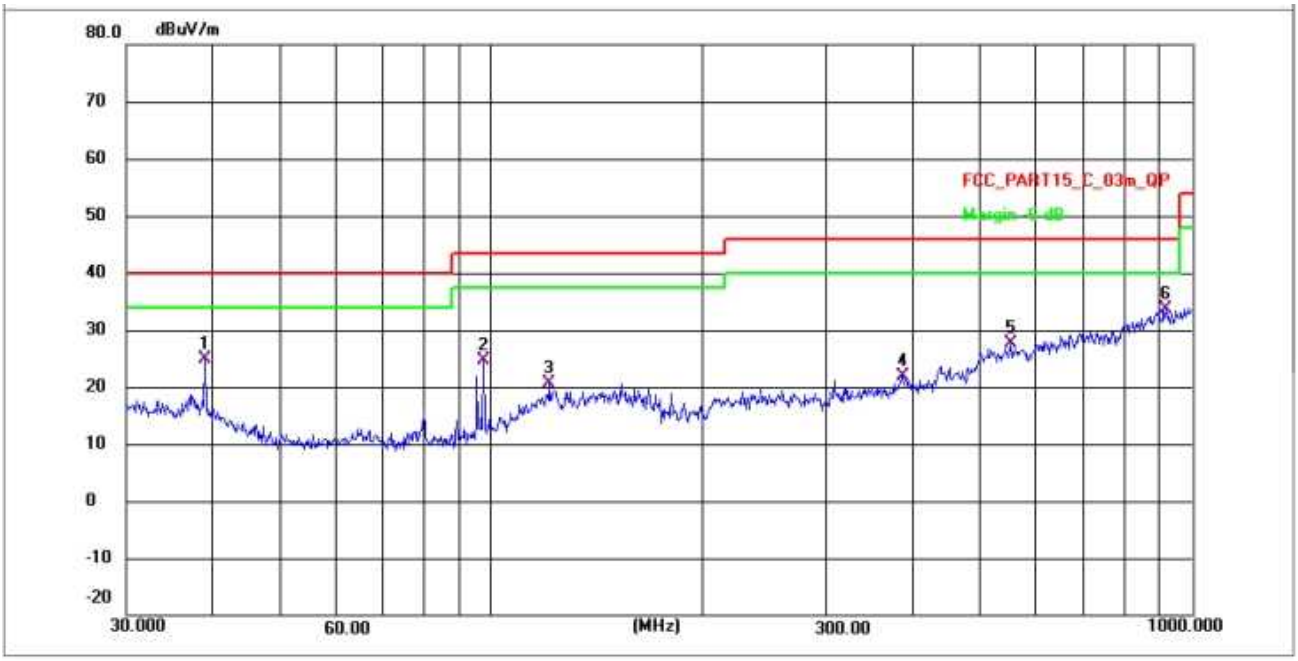
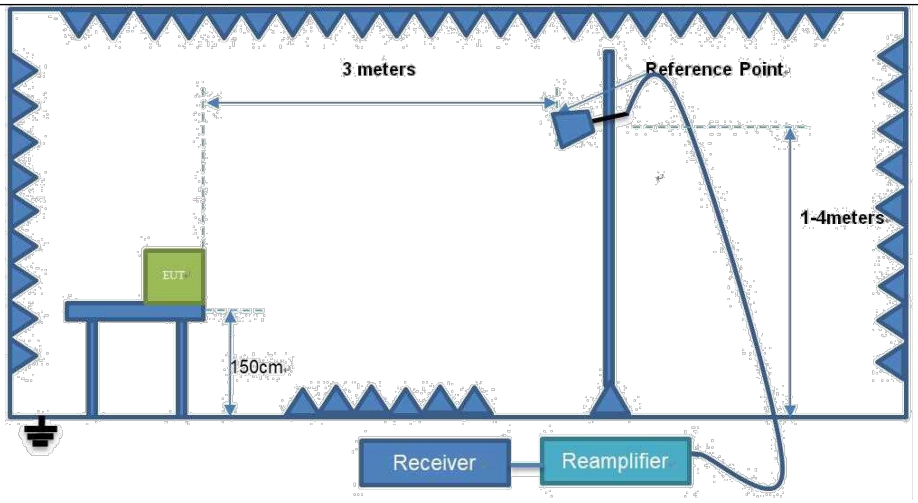
Test antenna polarization: Vertical (30 MHz to 1 GHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	38.9560	34.49	-9.64	24.85	40.00	-15.15	QP	P
2	97.1148	47.08	-22.51	24.57	43.50	-18.93	QP	P
3	120.9109	42.84	-22.27	20.57	43.50	-22.93	QP	P
4	387.3123	41.92	-19.93	21.99	46.00	-24.01	QP	P
5	551.9148	46.30	-18.65	27.65	46.00	-18.35	QP	P
6 *	919.2866	49.77	-16.10	33.67	46.00	-12.33	QP	P

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

6.8 Emissions in frequency bands (above 1GHz)

<table>
<tr><td>Test Requirement:</td><td>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)).`</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020 section 6.6.4
KDB 558074 D01 15.247 Meas Guidance v05r02</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** 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.</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2020 section 6.6.4</td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td colspan="2">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>23.1 °C</td></tr>
<tr><td>Humidity:</td><td>50.3 %</td></tr>
<tr><td>Atmospheric Pressure:</td><td>1010 mbar</td></tr>
<tr><td>Test voltage:</td><td>AC 120V 60Hz</td></tr>
</table>

6.8.1 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
4804.00	79.02	-48.89	30.14	74.00	-43.86	Peak	Pass
4804.00	69.25	-48.89	20.37	54.00	-33.63	AVG	Pass
7206.00	76.72	-47.02	29.69	74.00	-44.31	Peak	Pass
7206.00	66.88	-47.02	19.86	54.00	-34.14	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
4804.00	78.64	-48.89	29.76	74.00	-44.24	Peak	Pass
4804.00	68.30	-48.89	19.42	54.00	-34.58	AVG	Pass
7206.00	75.98	-47.02	28.95	74.00	-45.05	Peak	Pass
7206.00	66.43	-47.02	19.40	54.00	-34.60	AVG	Pass
Test Channel: Middle channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4882.00	78.08	-48.84	29.25	74.00	-44.75	Peak	Pass
4882.00	68.24	-48.84	19.40	54.00	-34.60	AVG	Pass
7323.00	75.02	-46.88	28.14	74.00	-45.86	Peak	Pass
7323.00	64.51	-46.88	17.62	54.00	-36.38	AVG	Pass
Test Channel: Middle channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4882.00	78.05	-48.84	29.22	74.00	-44.78	Peak	Pass
4882.00	68.19	-48.84	19.36	54.00	-34.64	AVG	Pass
7323.00	75.80	-46.88	28.92	74.00	-45.08	Peak	Pass
7323.00	65.05	-46.88	18.17	54.00	-35.83	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
4960.00	79.00	-48.79	30.21	74.00	-43.79	Peak	Pass
4960.00	69.04	-48.79	20.26	54.00	-33.74	AVG	Pass
7440.00	75.25	-46.74	28.51	74.00	-45.49	Peak	Pass

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7440.00	65.41	-46.74	18.67	54.00	-35.33	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
4960.00	78.32	-48.79	29.53	74.00	-44.47	Peak	Pass
4960.00	68.11	-48.79	19.32	54.00	-34.68	AVG	Pass
7440.00	75.27	-46.74	28.52	74.00	-45.48	Peak	Pass
7440.00	64.50	-46.74	17.76	54.00	-36.24	AVG	Pass

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

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7 Test Setup Photos

Please refer to Appendix I Test Setup Photos.

8 EUT Constructional Details (EUT Photos)

Please refer to Appendix II External Photos and Appendix III Internal Photos.

Appendix

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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 (%)
1M	SISO	2402	2.124	2.501	84.93	0.71	0.03
		2440	2.124	2.501	84.93	0.71	0.03
		2480	2.123	2.500	84.92	0.71	0.03
2M	SISO	2402	1.065	1.875	56.80	2.46	0.03
		2440	1.066	1.875	56.85	2.45	0.03
		2480	1.065	1.874	56.83	2.45	0.03

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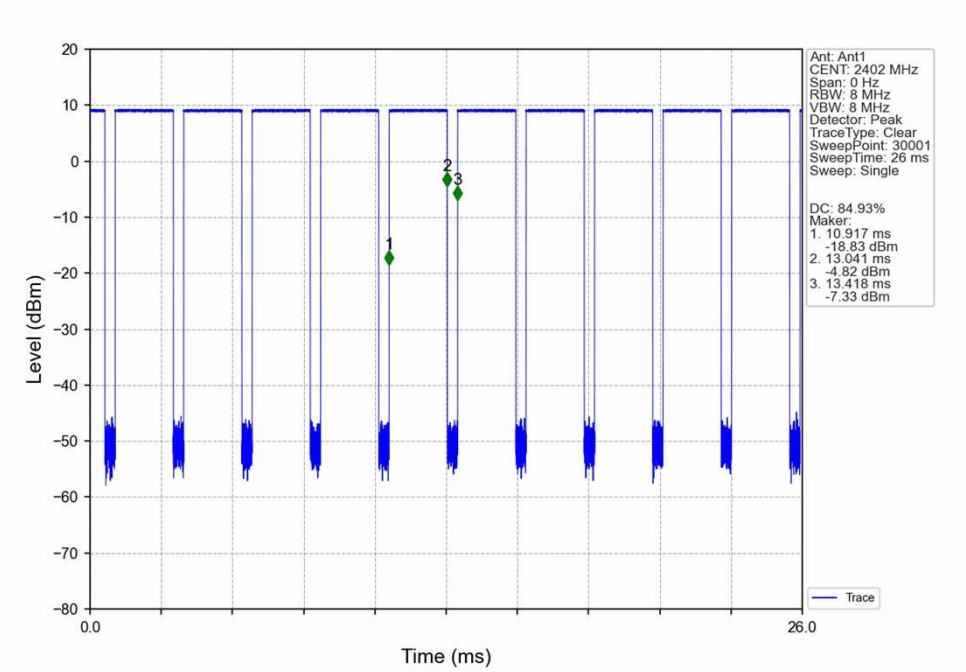
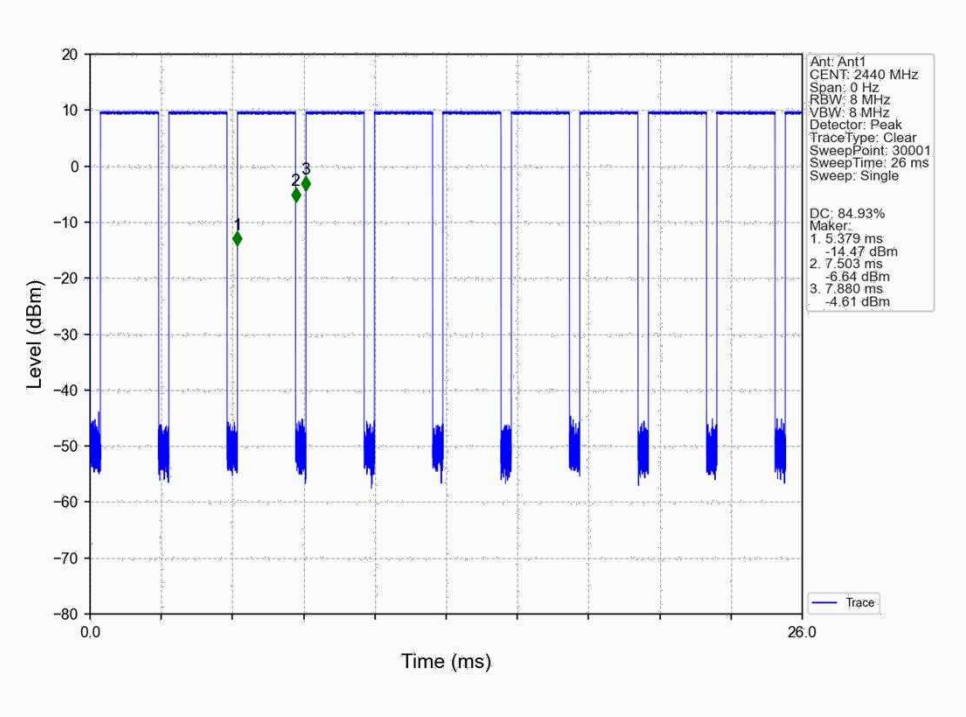
1.2 Test Graph

1.2.1 Ant1

1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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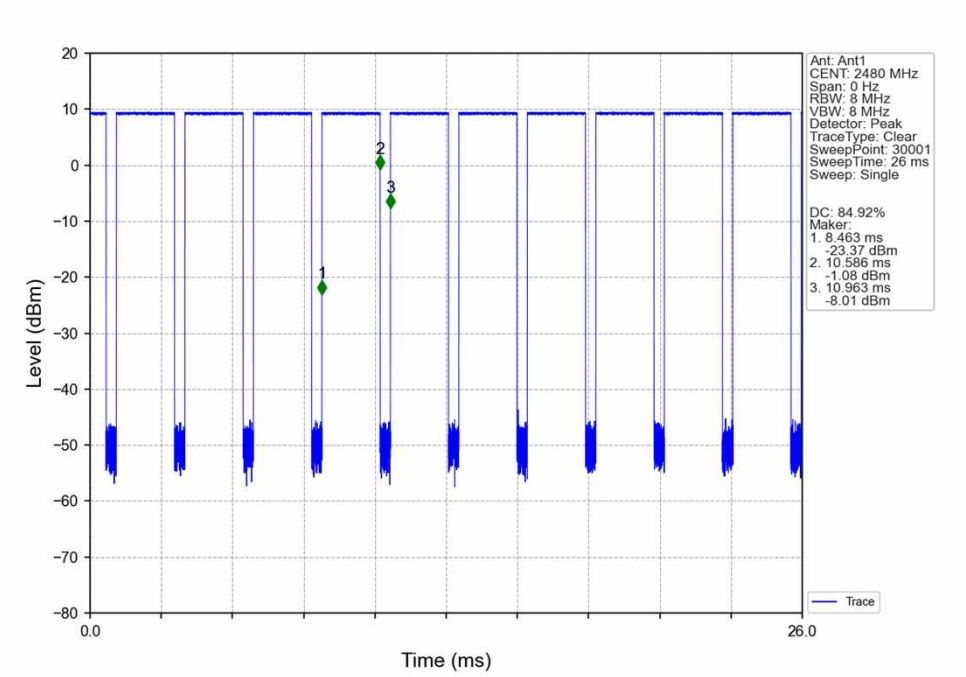
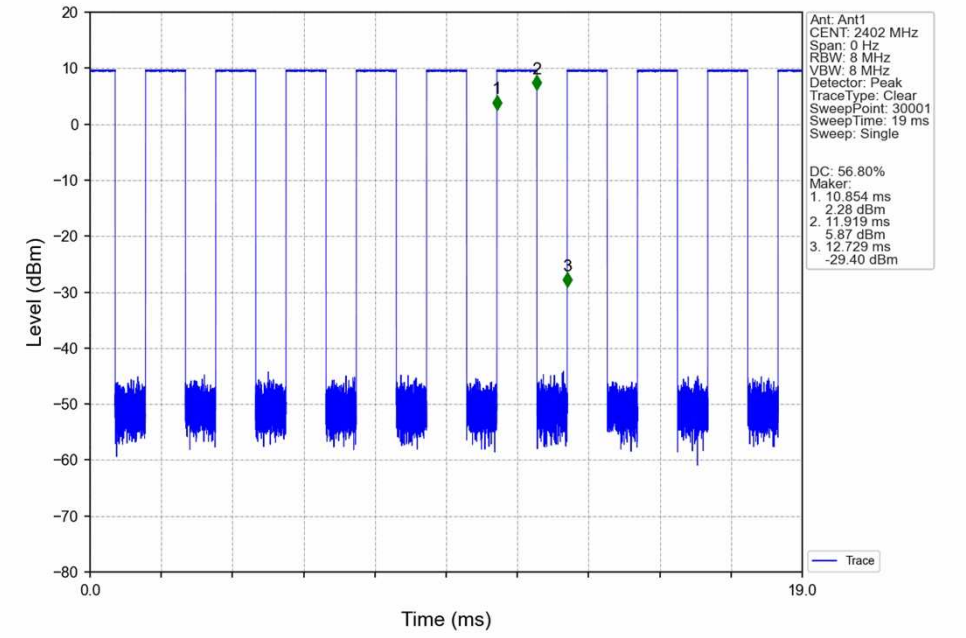
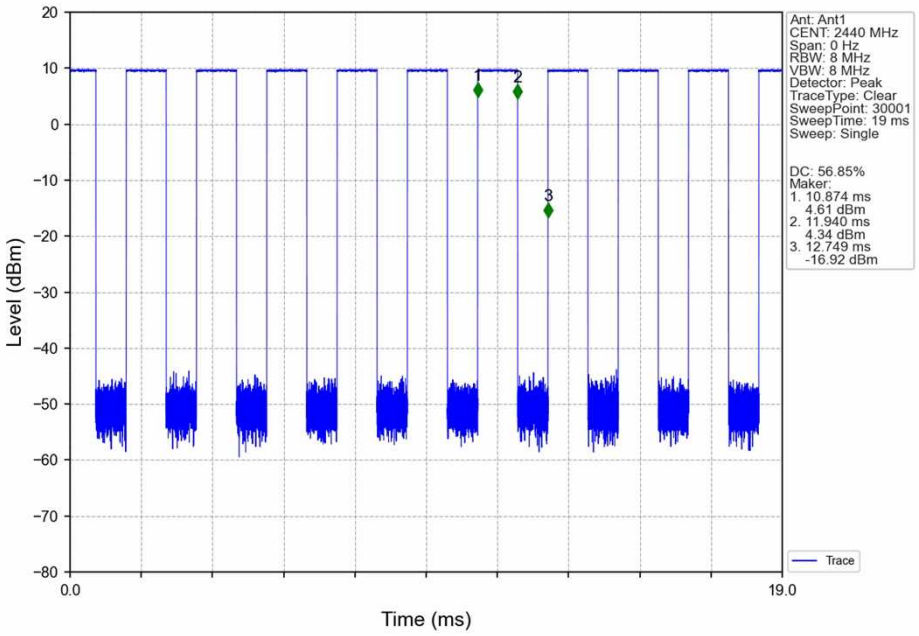
1M_HCH_2480MHz_Ant1_NTNV



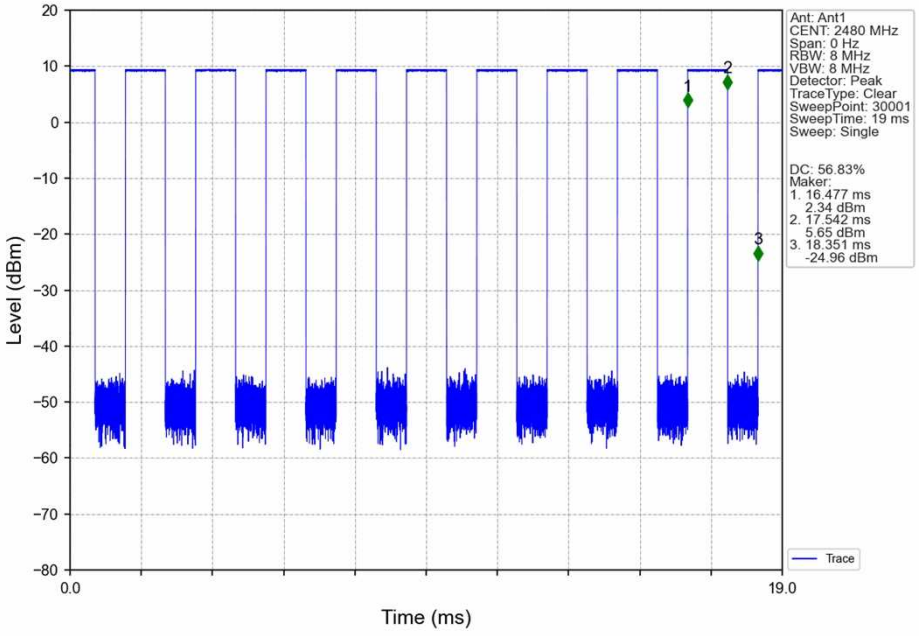
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.029	/	Pass
		2440	1	1.032	/	Pass
		2480	1	1.033	/	Pass
2M	SISO	2402	1	2.068	/	Pass
		2440	1	2.068	/	Pass
		2480	1	2.069	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.672	>=0.5	Pass
		2440	1	0.671	>=0.5	Pass
		2480	1	0.672	>=0.5	Pass
2M	SISO	2402	1	1.212	>=0.5	Pass
		2440	1	1.207	>=0.5	Pass
		2480	1	1.265	>=0.5	Pass

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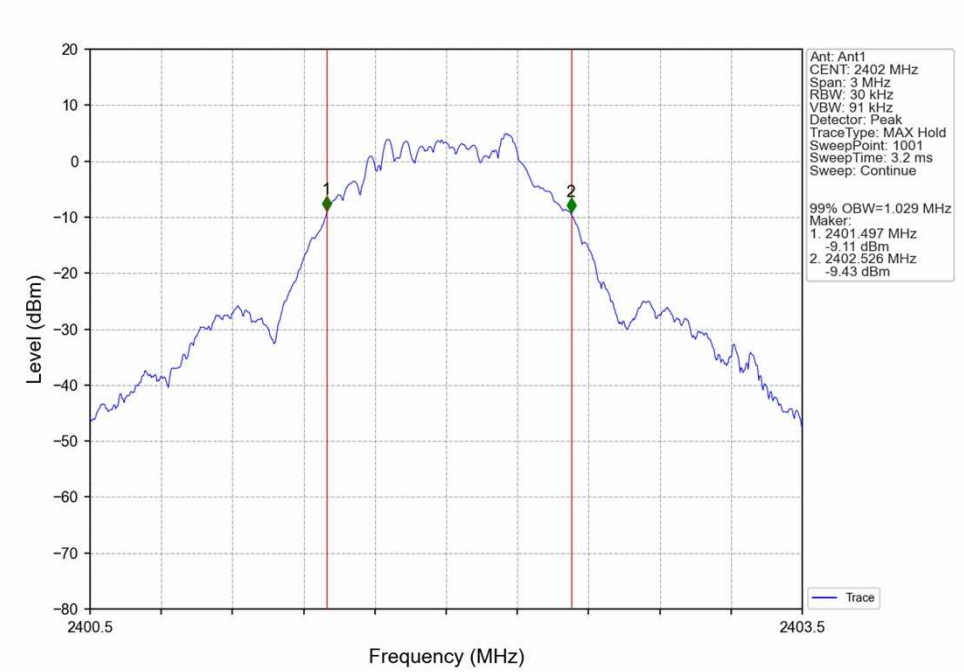
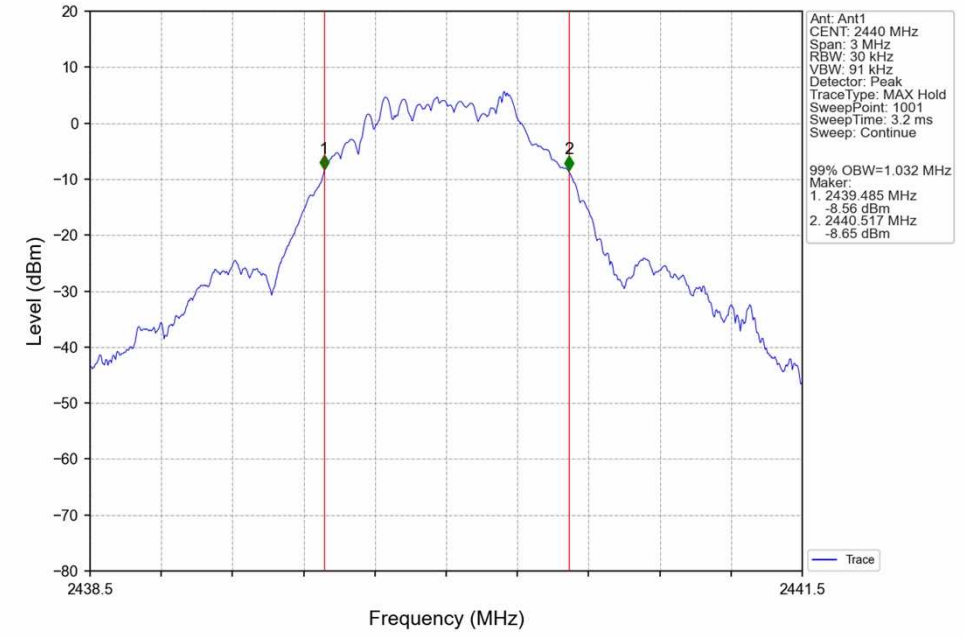
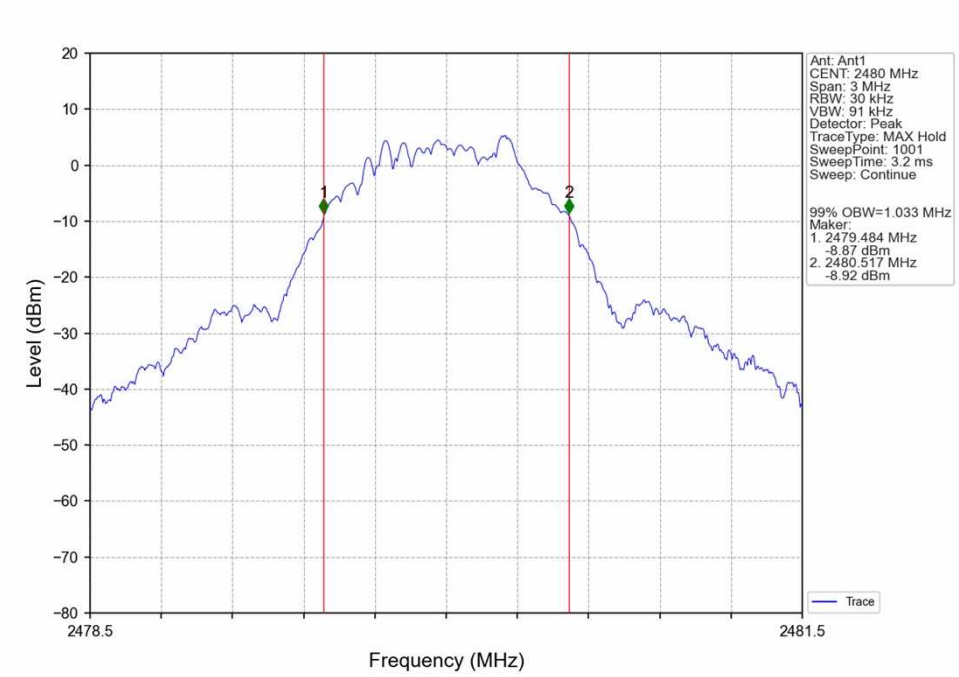
2.2 Test Graph

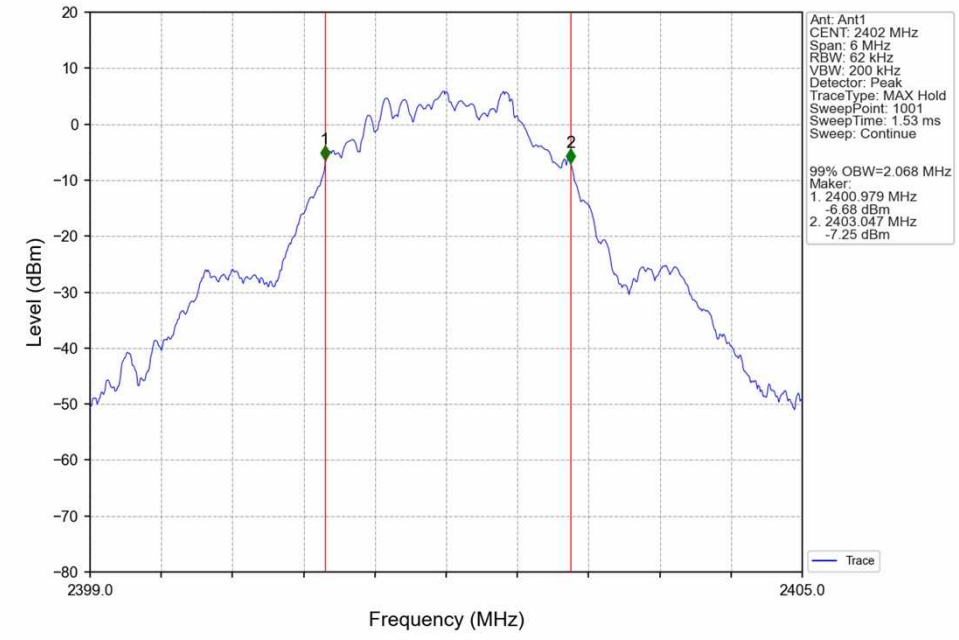
2.2.1 OBW

1M_LCH_2402MHz_Ant1_NTNV

1M_MCH_2440MHz_Ant1_NTNV


1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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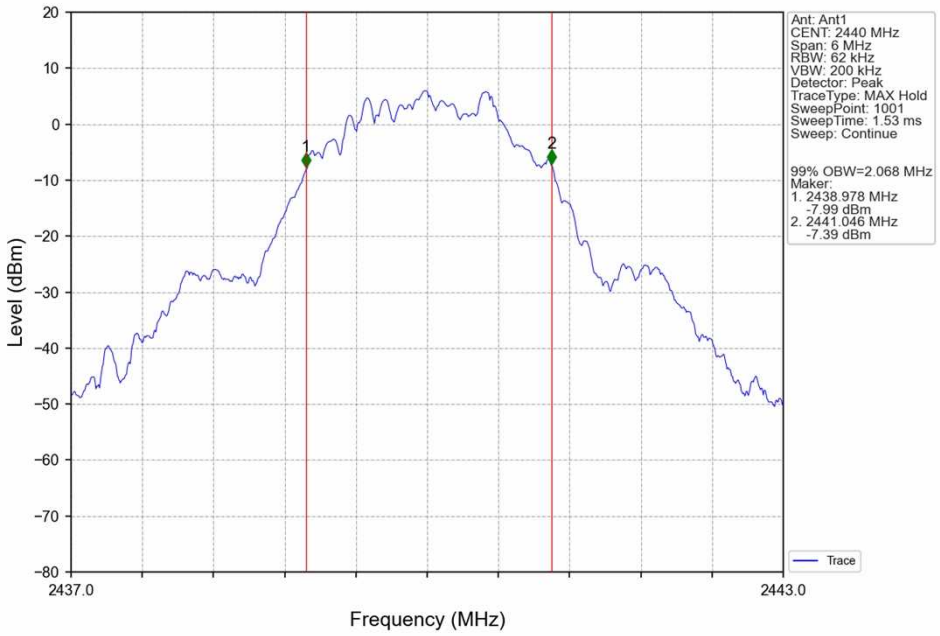
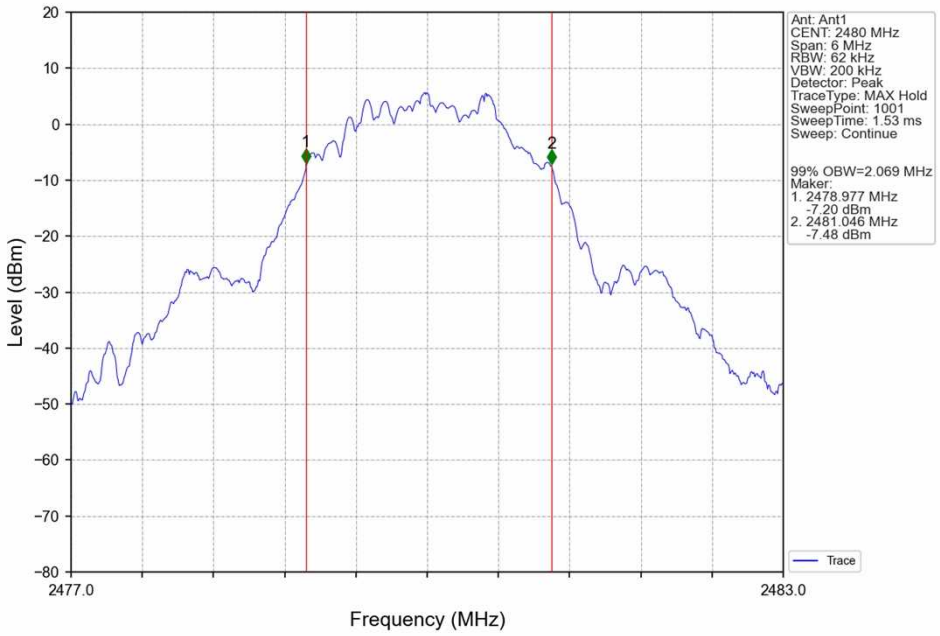
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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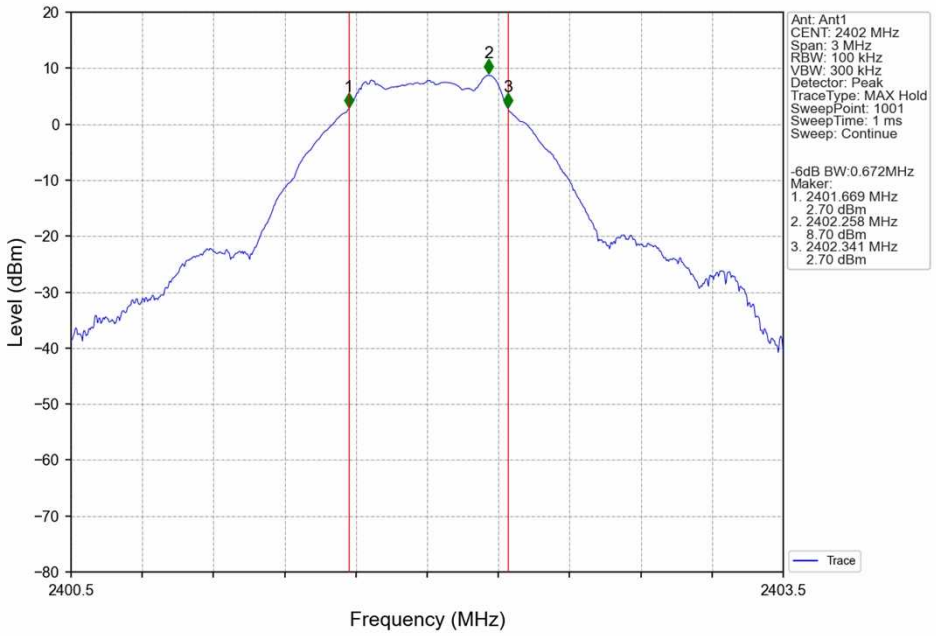
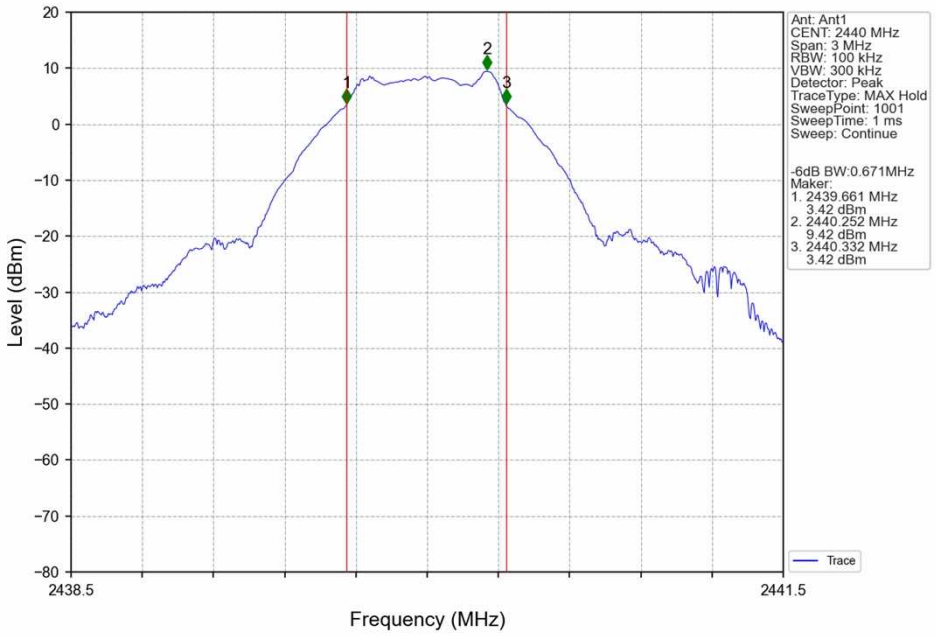
2.2.2 6dB BW

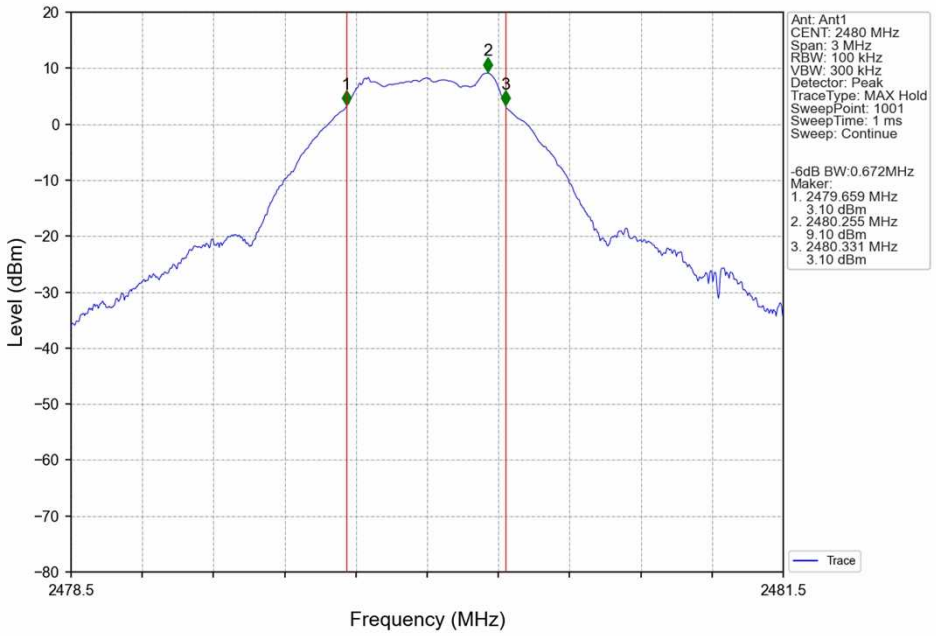
1M_LCH_2402MHz_Ant1_NTNV



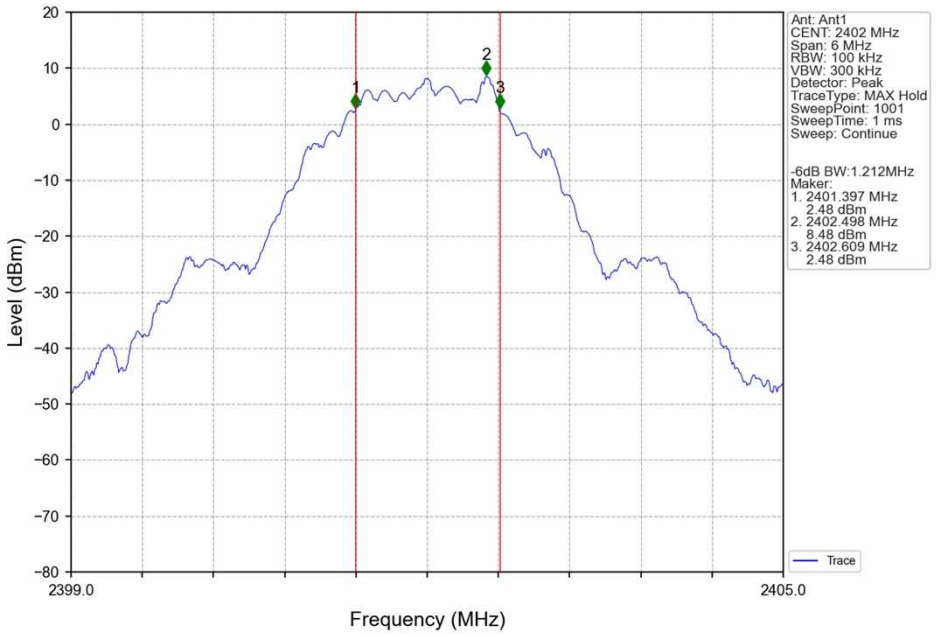
1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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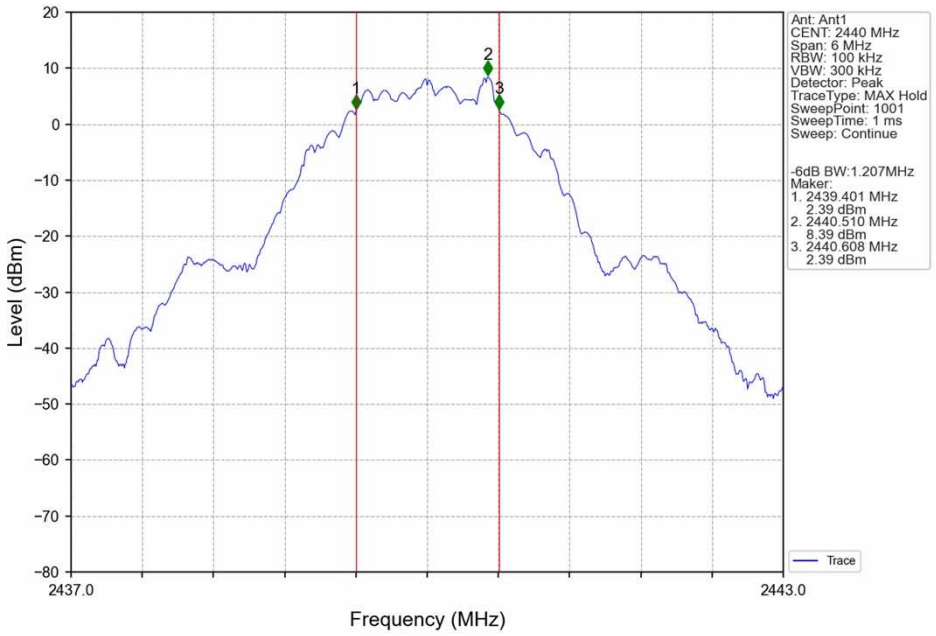
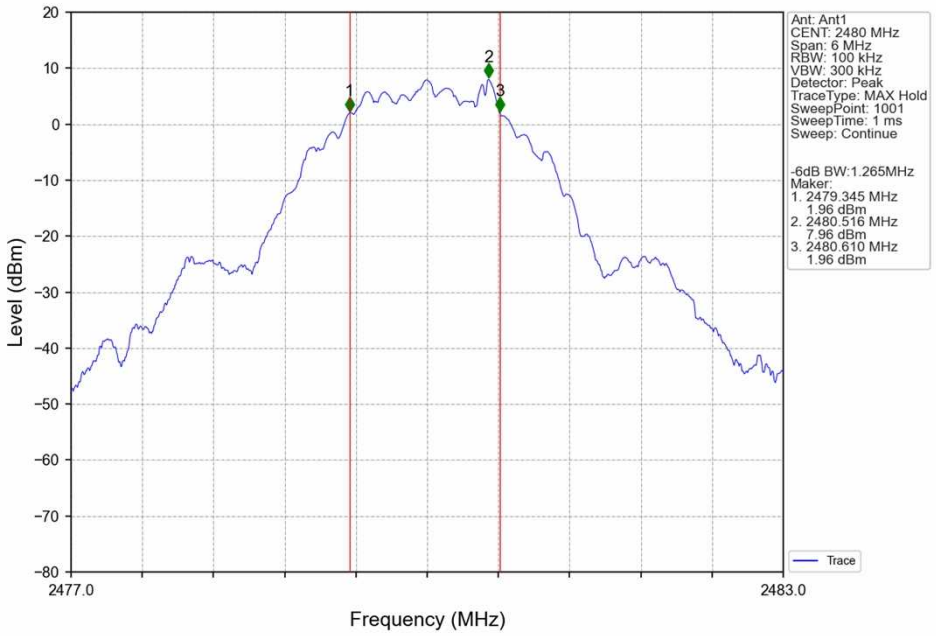
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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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	
1M	SISO	2402	9.06	<=30	Pass
		2440	9.60	<=30	Pass
		2480	9.31	<=30	Pass
2M	SISO	2402	9.65	<=30	Pass
		2440	9.64	<=30	Pass
		2480	9.33	<=30	Pass
Note1: Antenna Gain: Ant1: 0.56dBi;					

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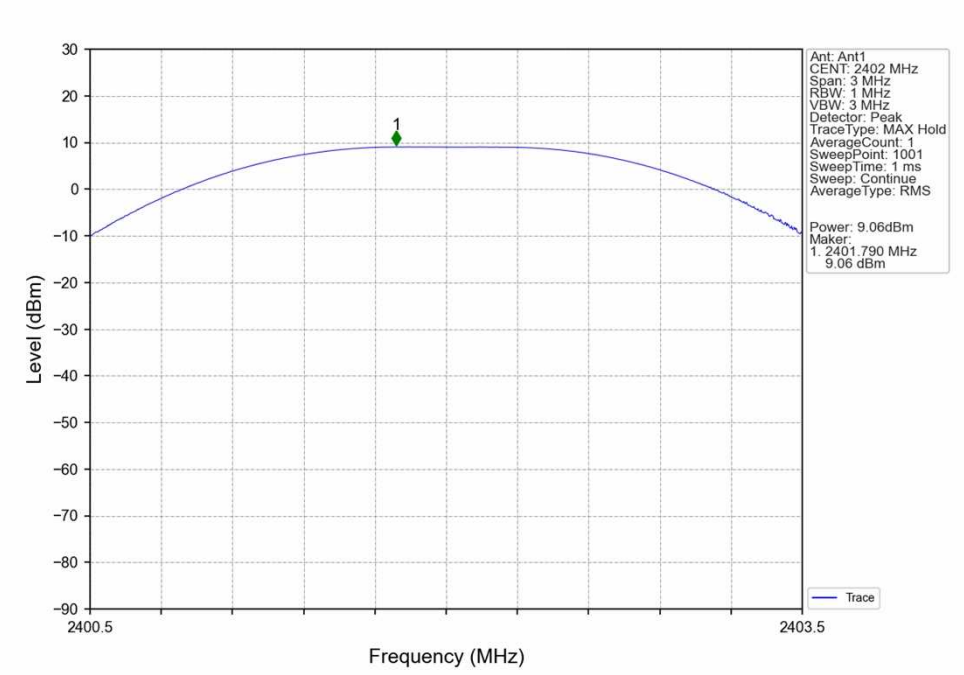
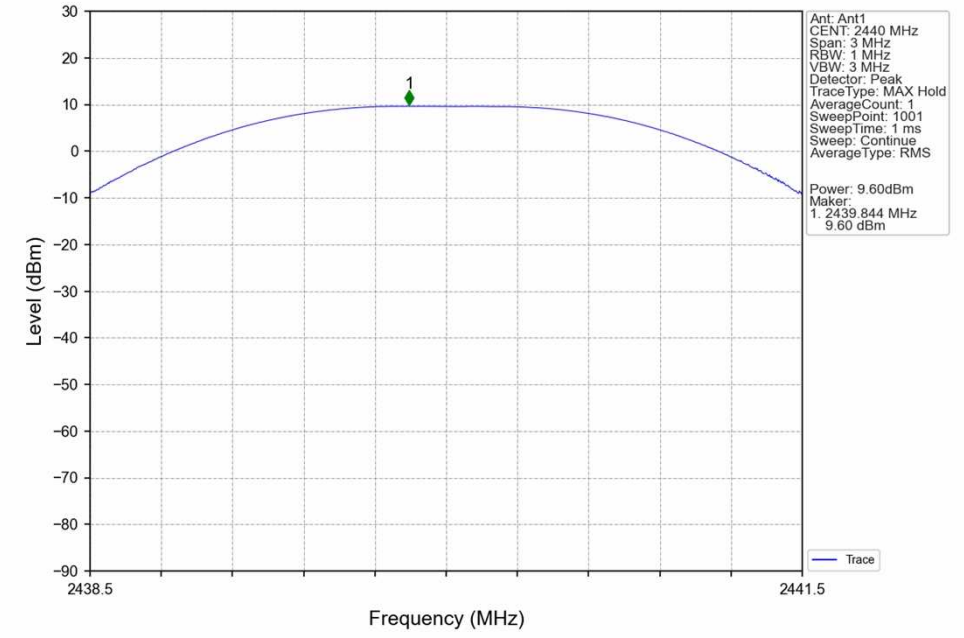
3.2 Test Graph

3.2.1 Power

1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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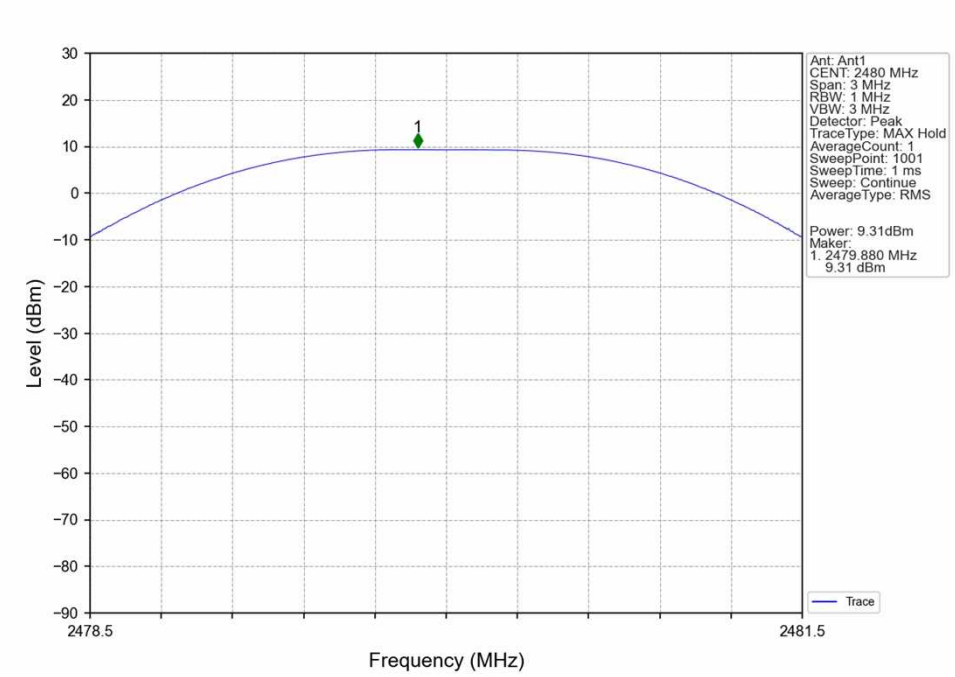
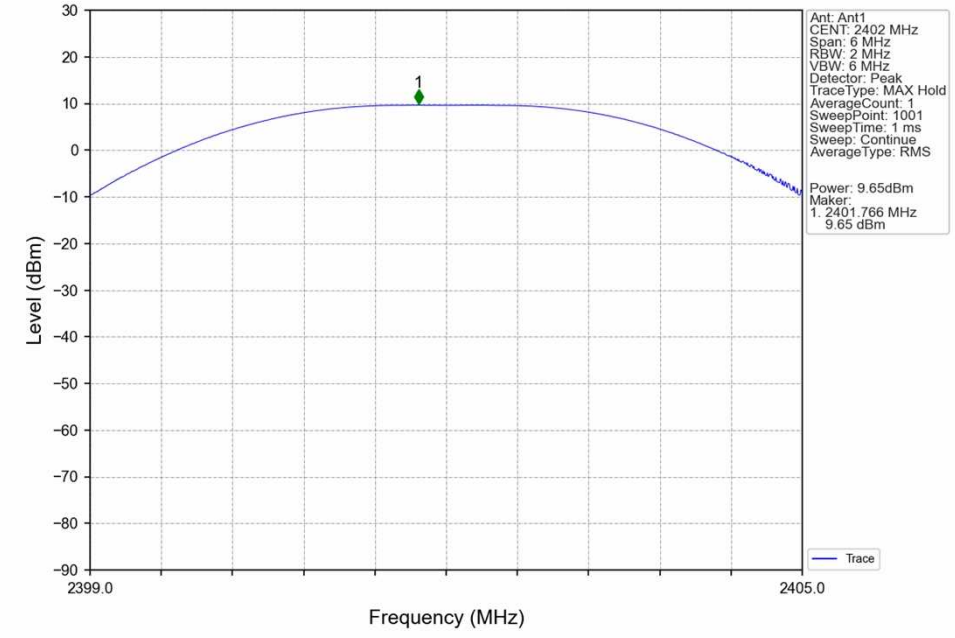
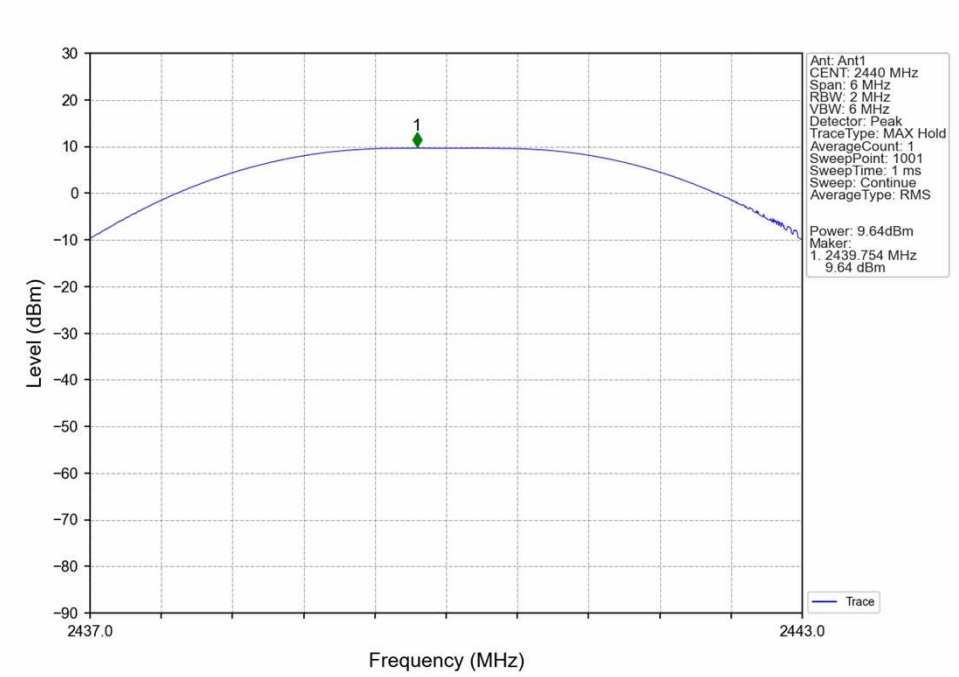
1M_HCH_2480MHz_Ant1_NTNV



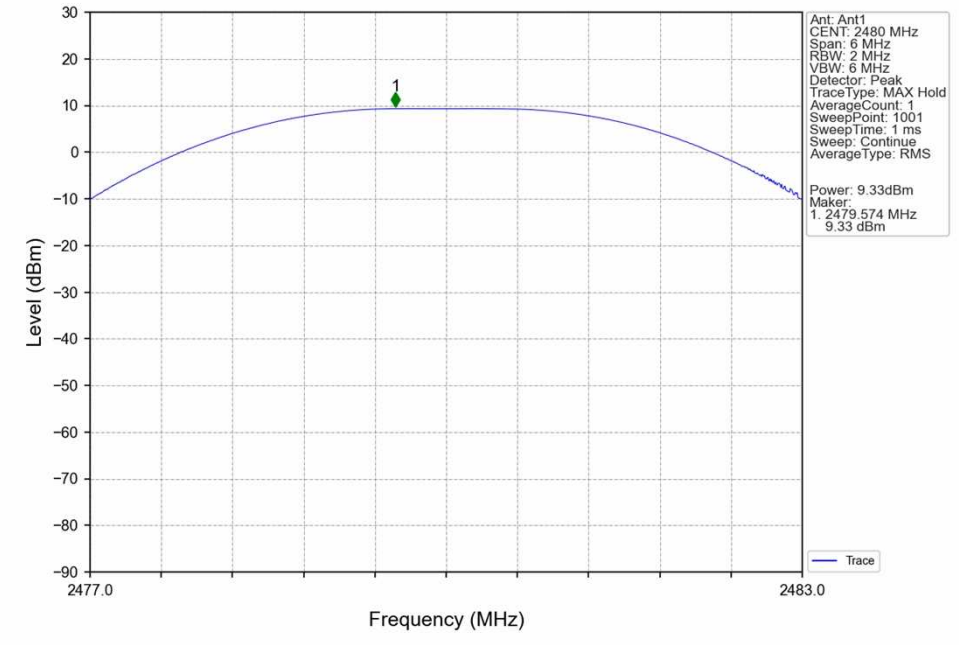
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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	
1M	SISO	2402	-7.01	<=8	Pass
		2440	-6.33	<=8	Pass
		2480	-6.66	<=8	Pass
2M	SISO	2402	-9.64	<=8	Pass
		2440	-9.63	<=8	Pass
		2480	-10.03	<=8	Pass
Note1: Antenna Gain: Ant1: 0.56dBi;					

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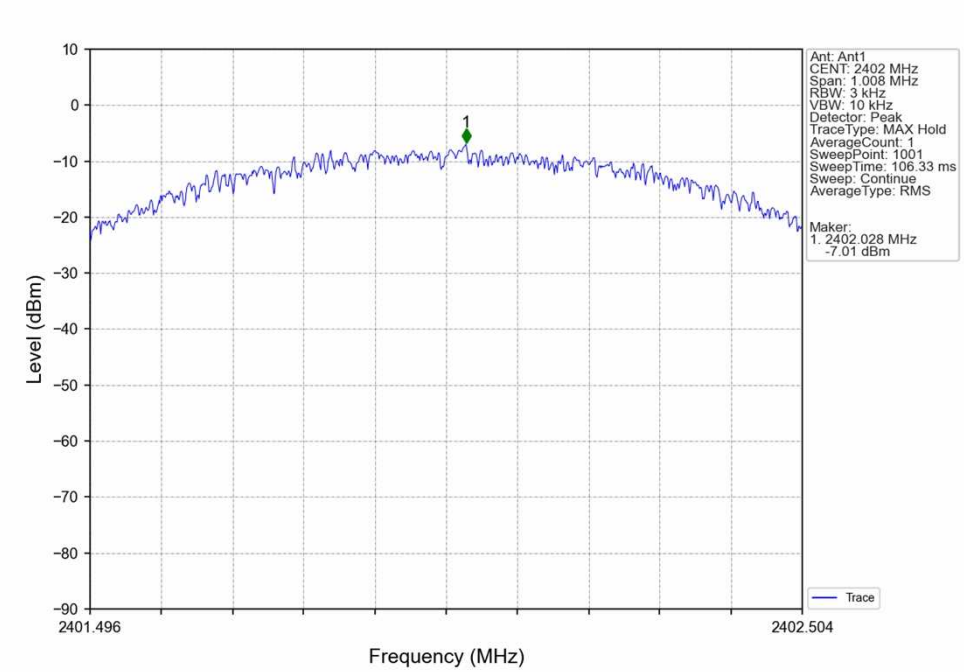
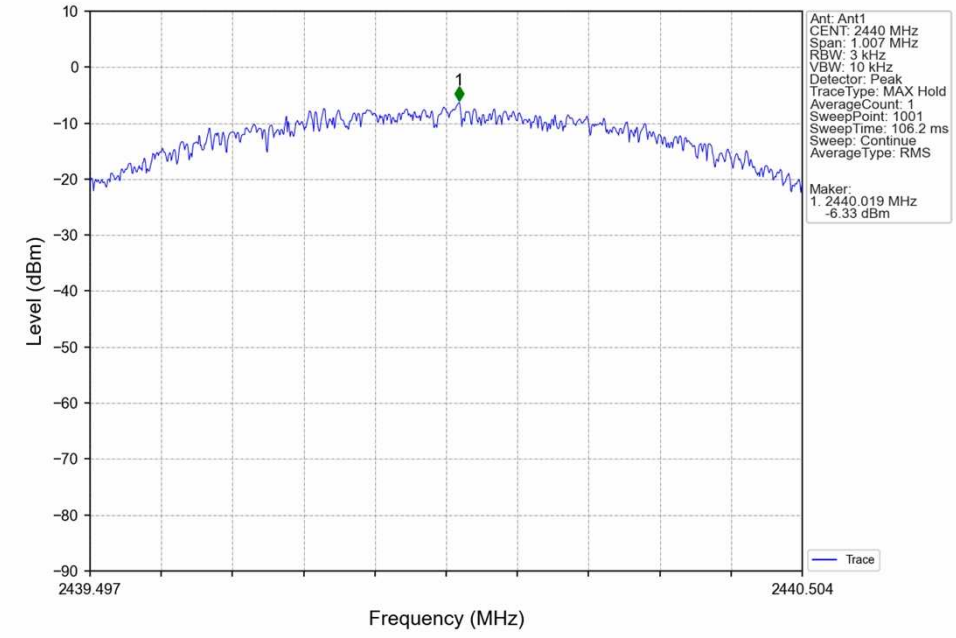
4.2 Test Graph

4.2.1 PSD

1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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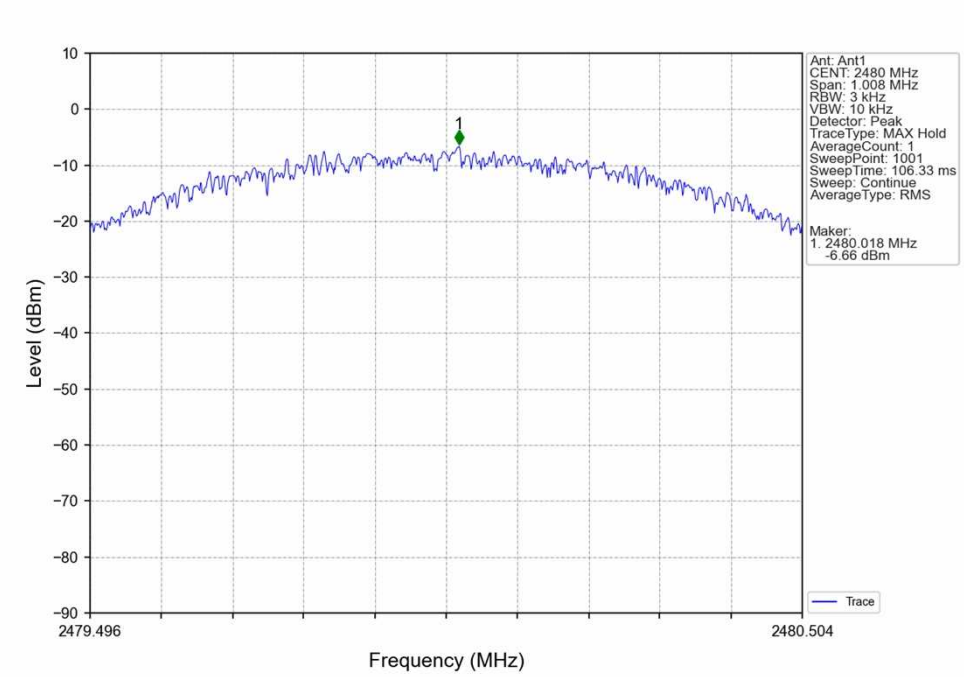
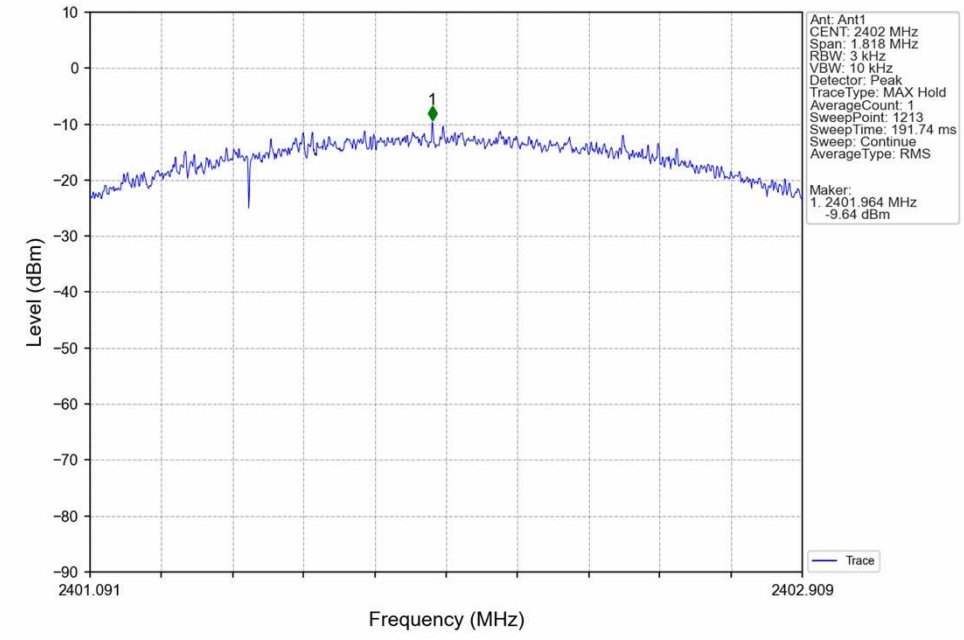
1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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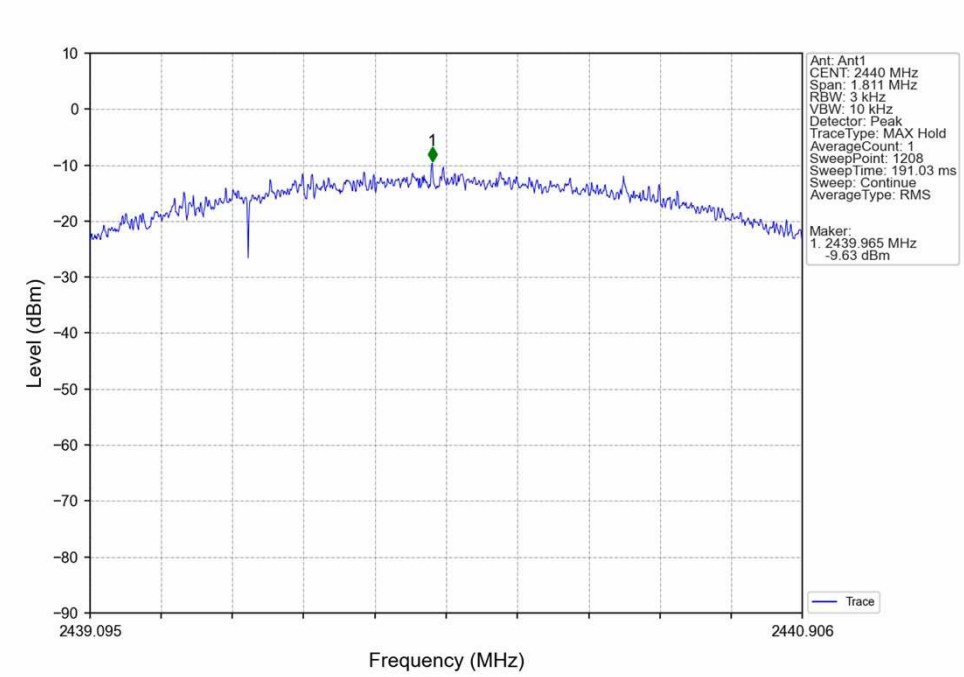
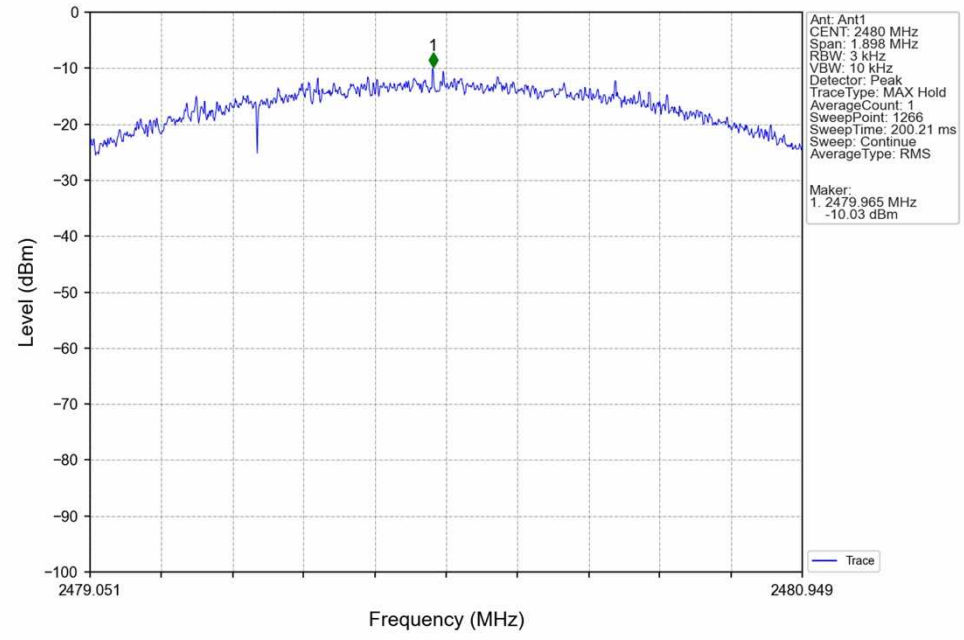
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_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)
1M	SISO	2402	1	8.69
		2440	1	9.42
		2480	1	9.14
2M	SISO	2402	1	8.36
		2440	1	8.34
		2480	1	8.01
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
1M	SISO	2402	1	8.69	-11.31	Pass
		2440	1	9.42	-10.58	Pass
		2480	1	9.14	-10.86	Pass
2M	SISO	2402	1	8.36	-11.64	Pass
		2440	1	8.34	-11.66	Pass
		2480	1	8.01	-11.99	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.						

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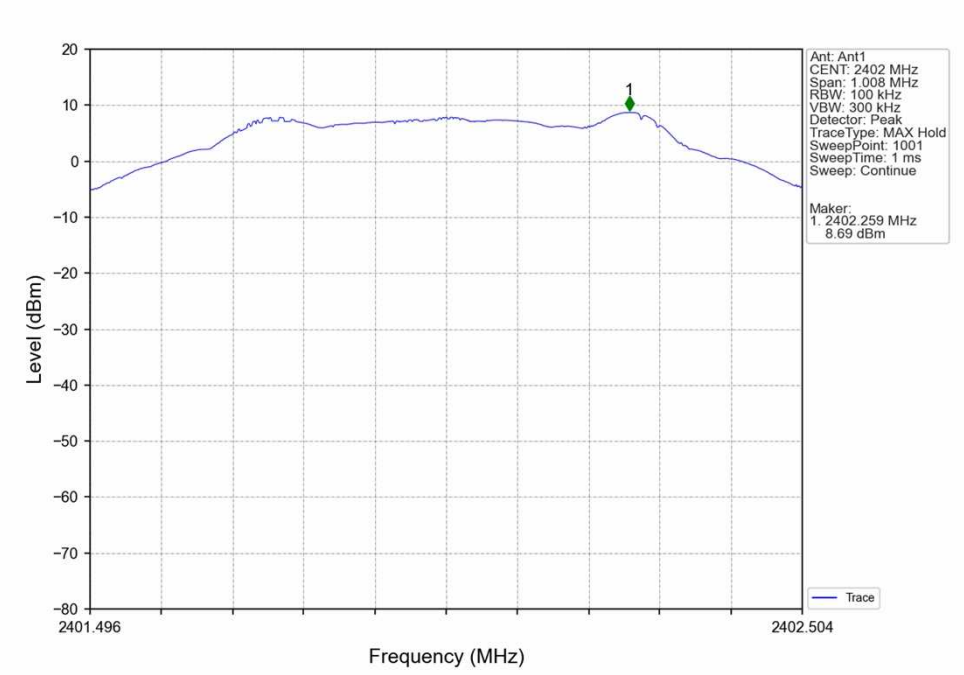
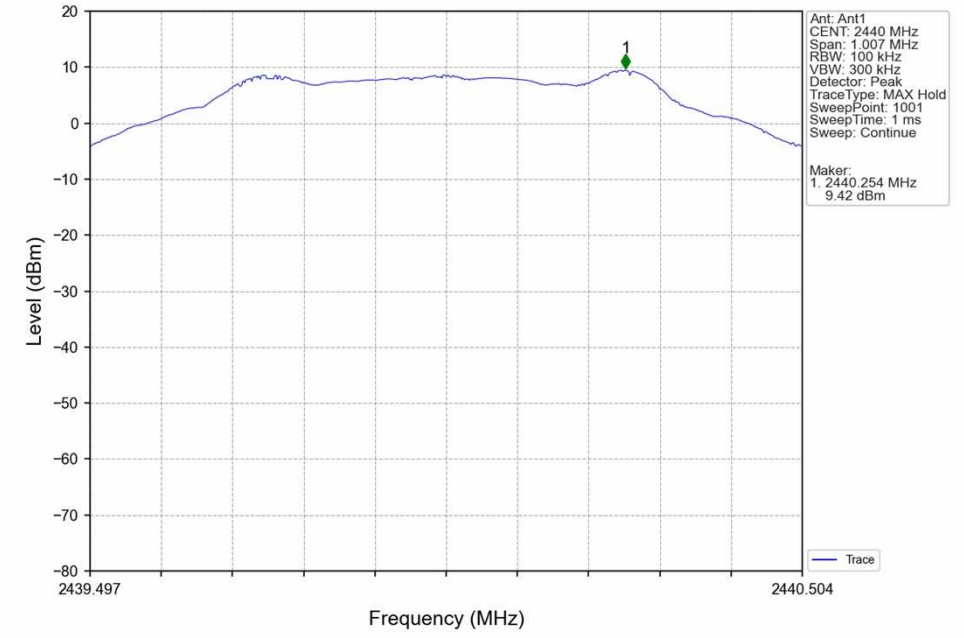
5.2 Test Graph

5.2.1 Ref

1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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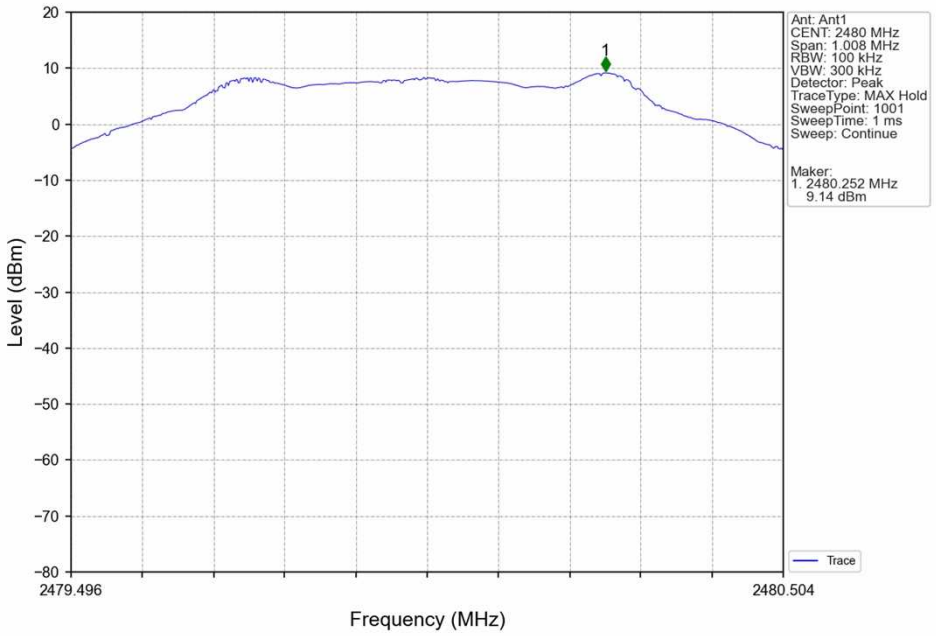
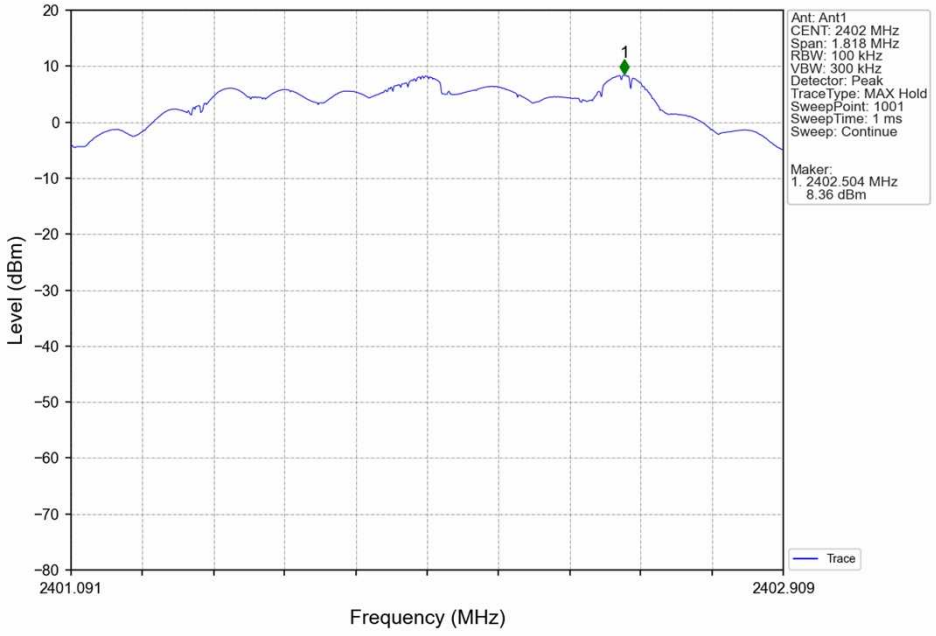
1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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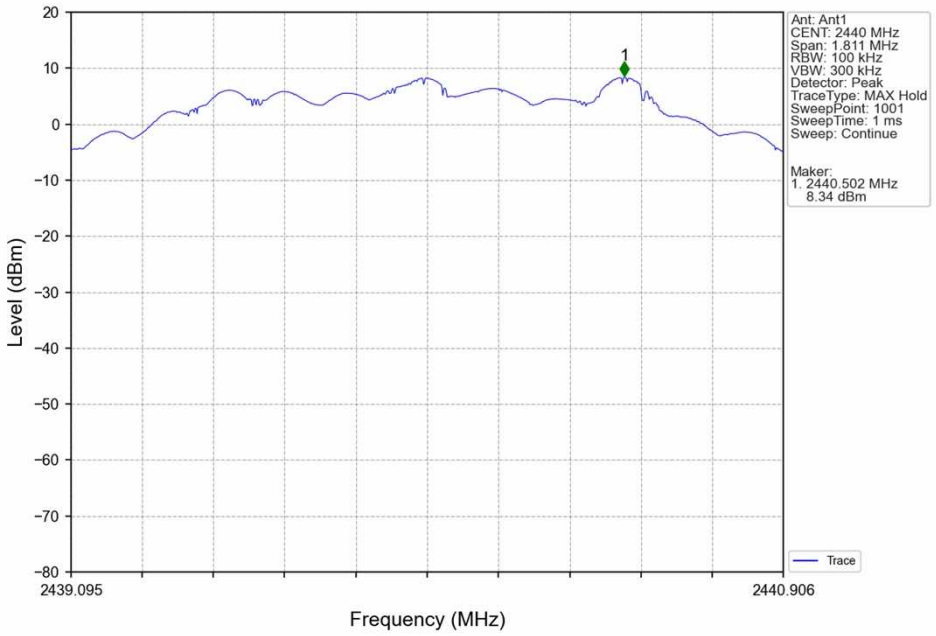
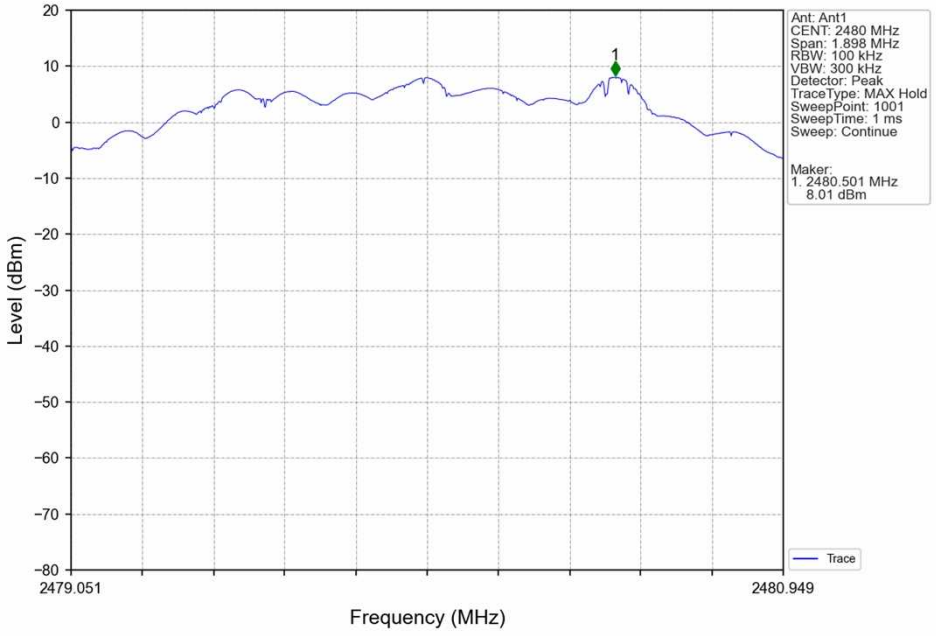
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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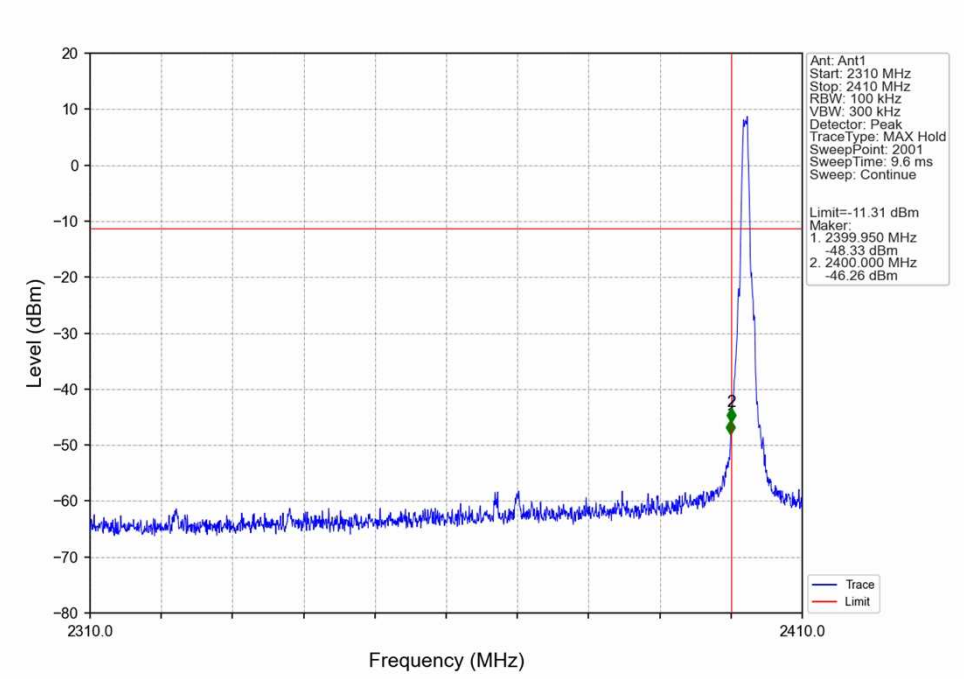
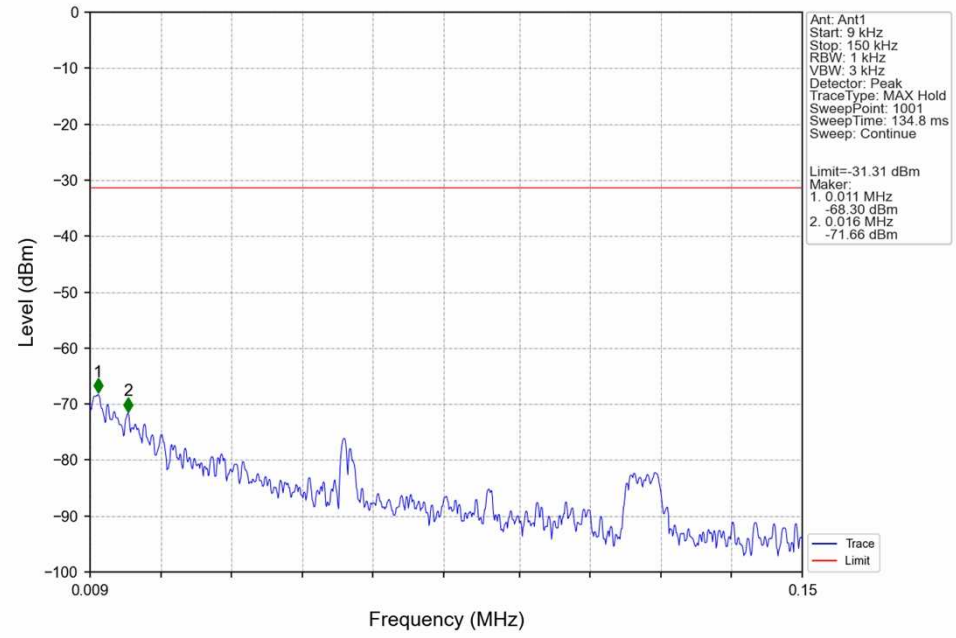
5.2.2 CSE

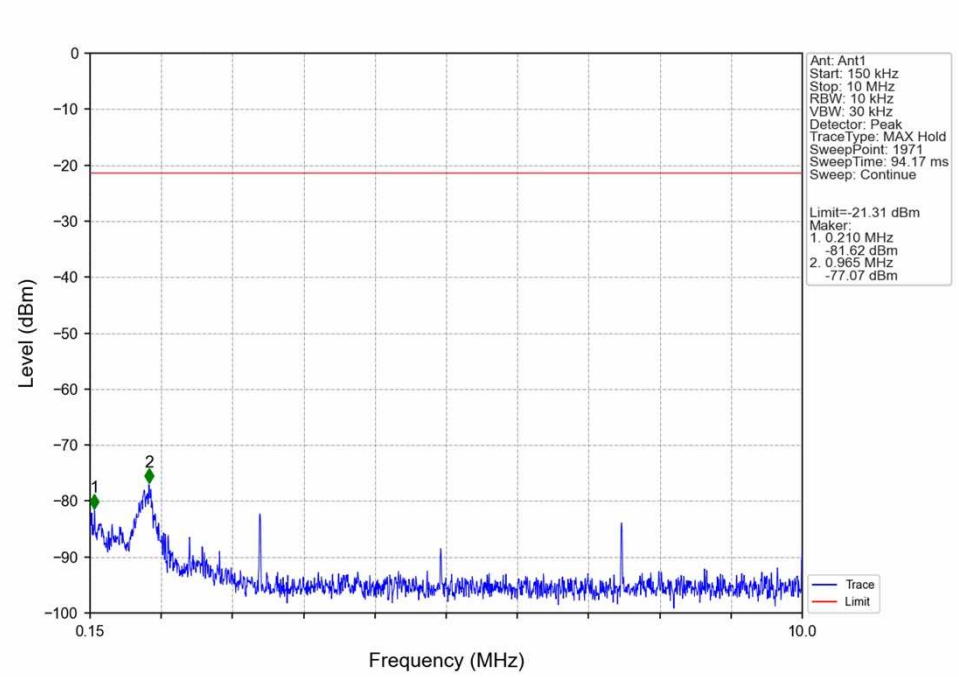
1M_LCH_2402MHz_Ant1_NTNV



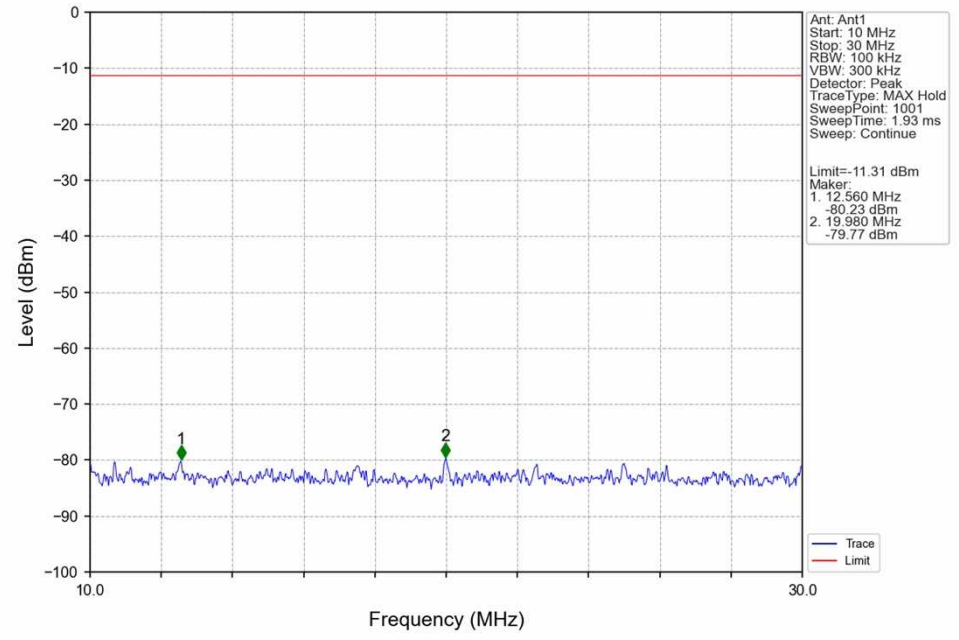
1M_LCH_2402MHz_Ant1_NTNV



1M_LCH_2402MHz_Ant1_NTNV



1M_LCH_2402MHz_Ant1_NTNV



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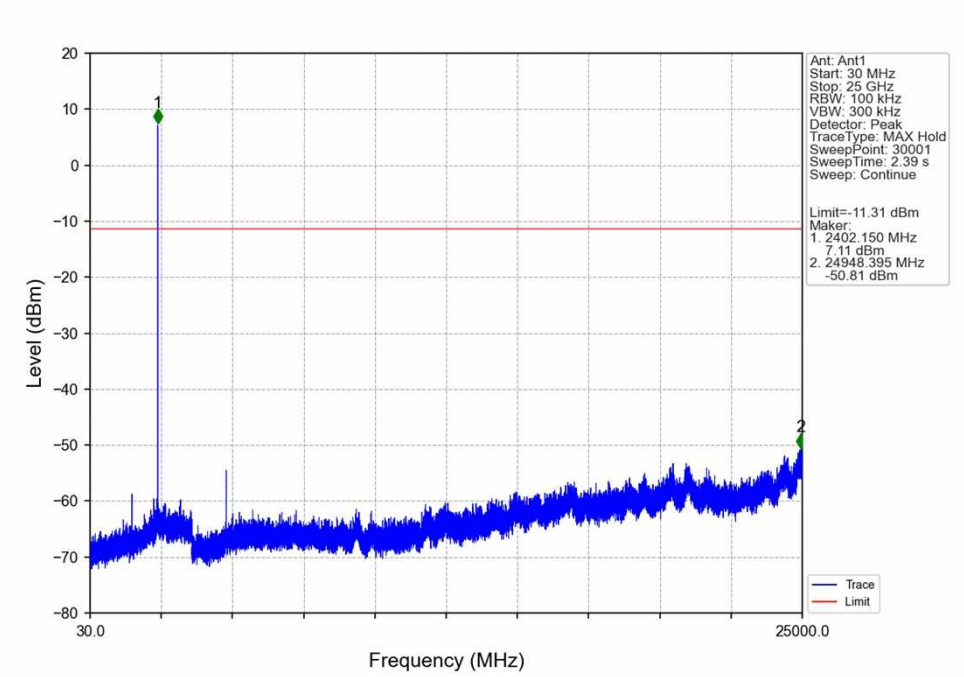
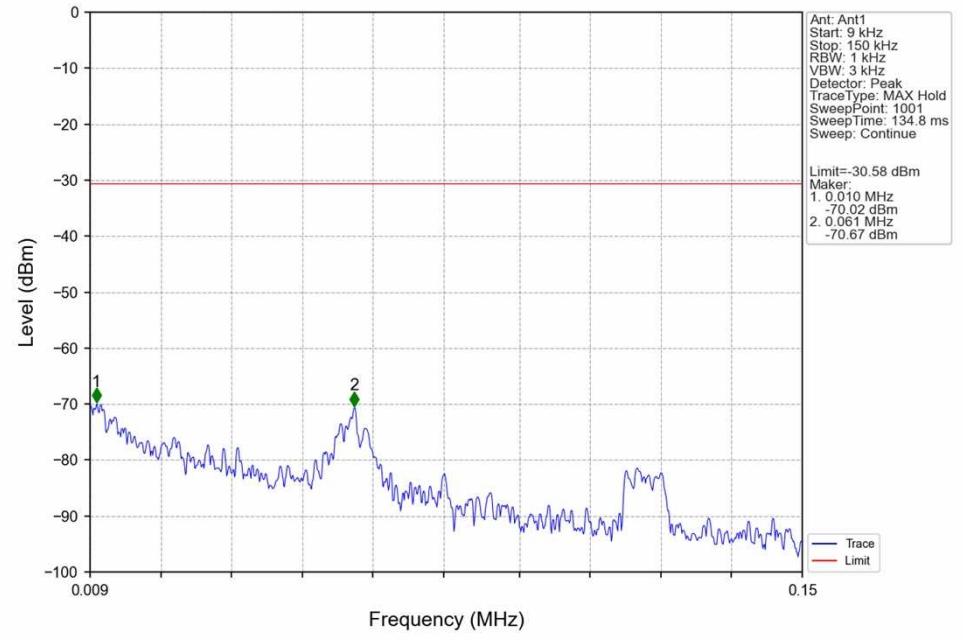
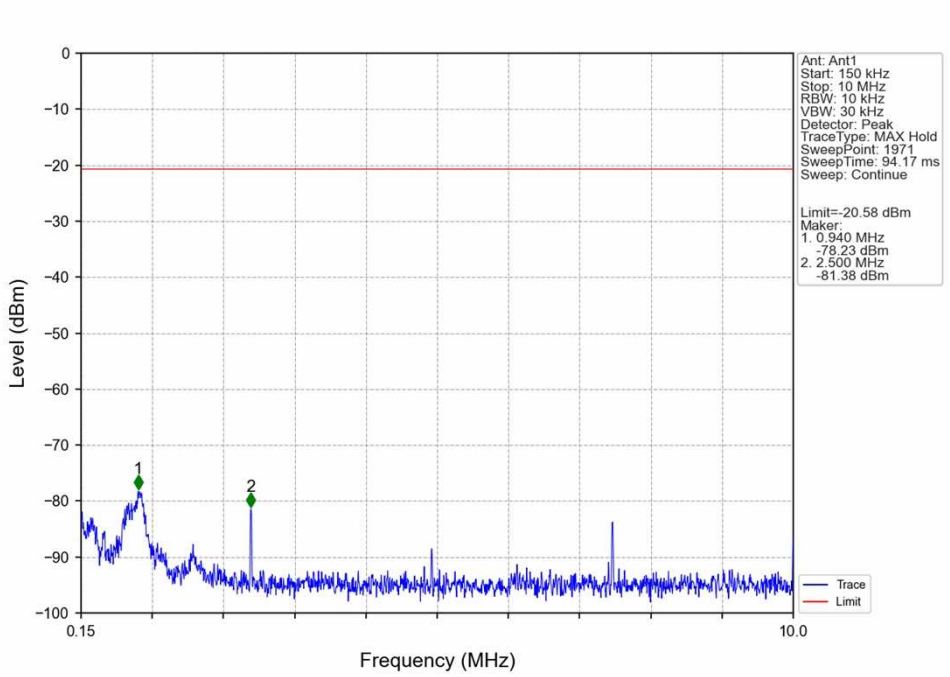
1M_LCH_2402MHz_Ant1_NTNV



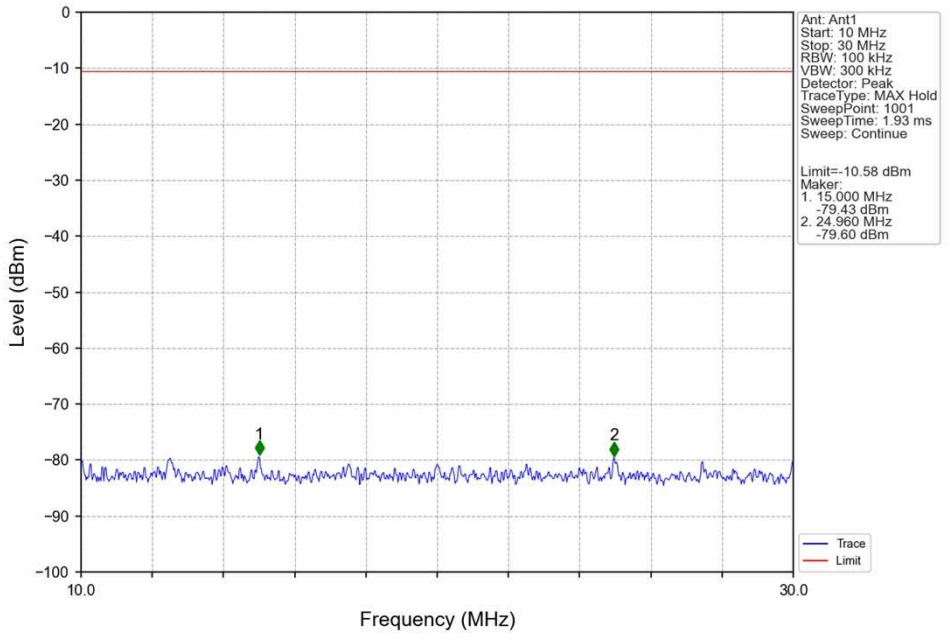
1M_MCH_2440MHz_Ant1_NTNV



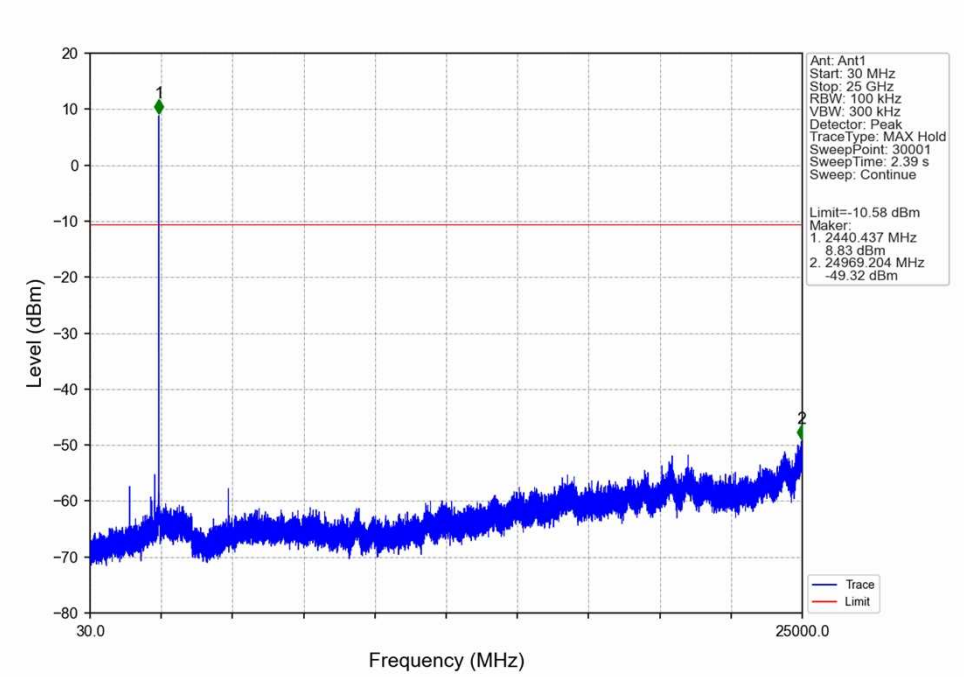
1M_MCH_2440MHz_Ant1_NTNV



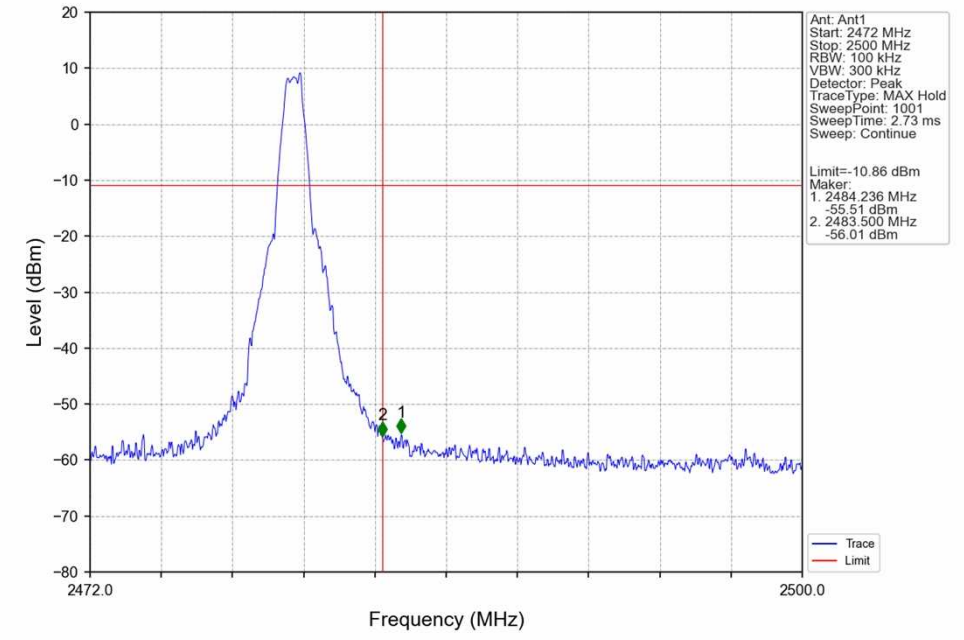
1M_MCH_2440MHz_Ant1_NTNV



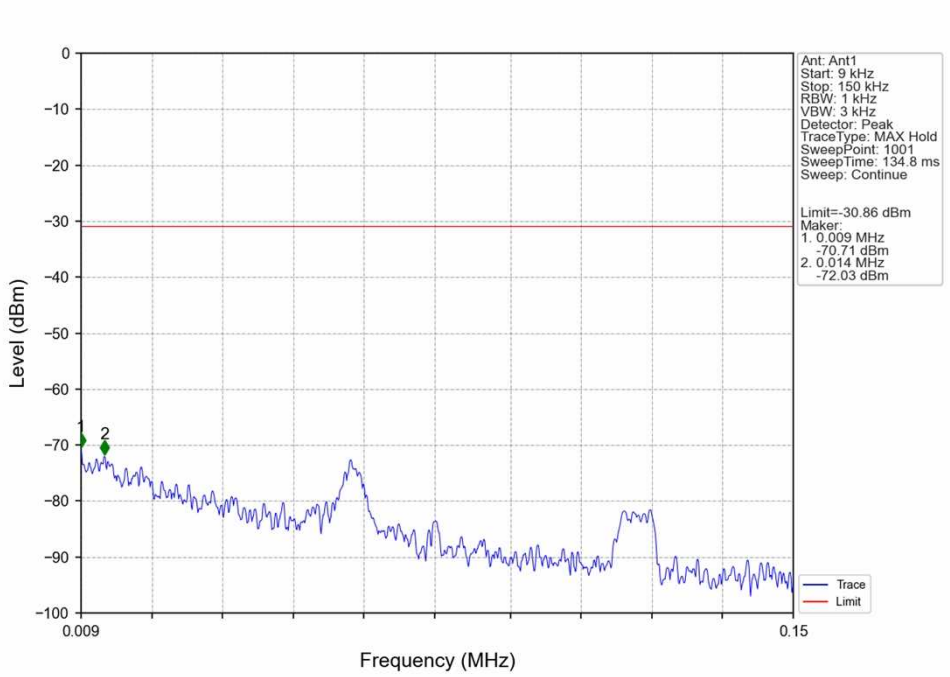
1M_MCH_2440MHz_Ant1_NTNV



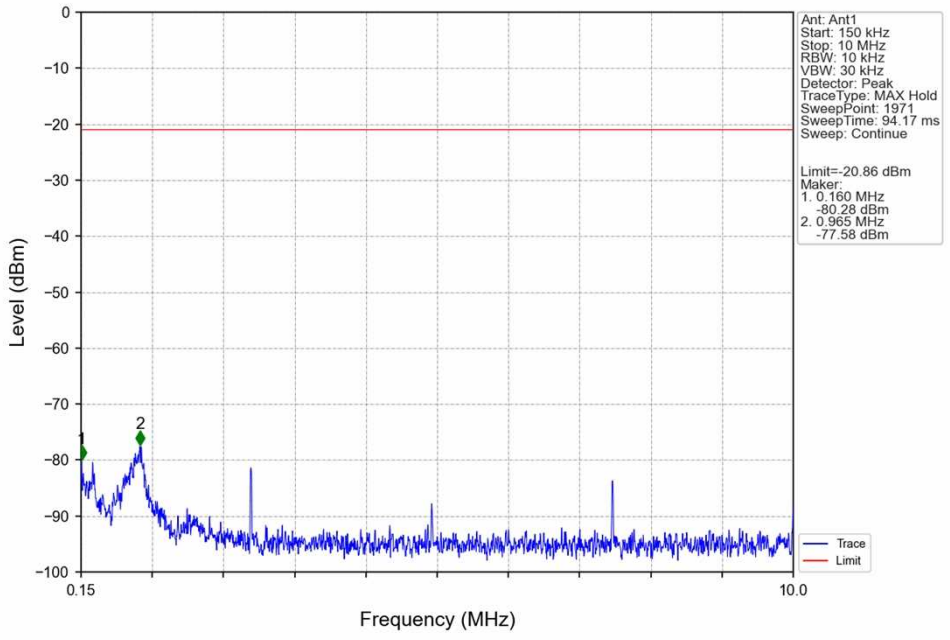
1M_HCH_2480MHz_Ant1_NTNV



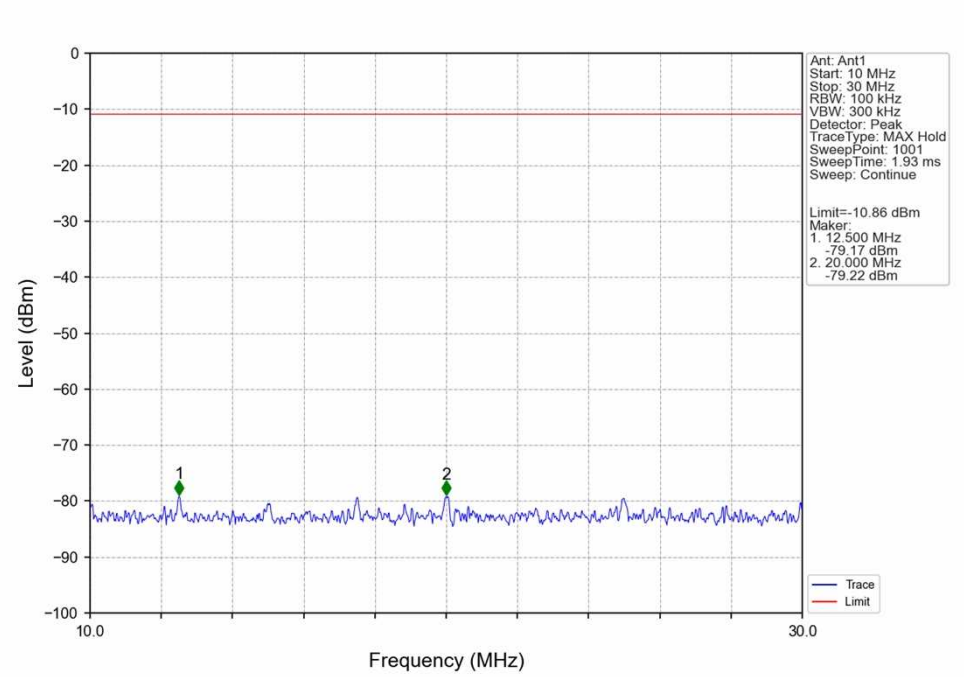
1M_HCH_2480MHz_Ant1_NTNV



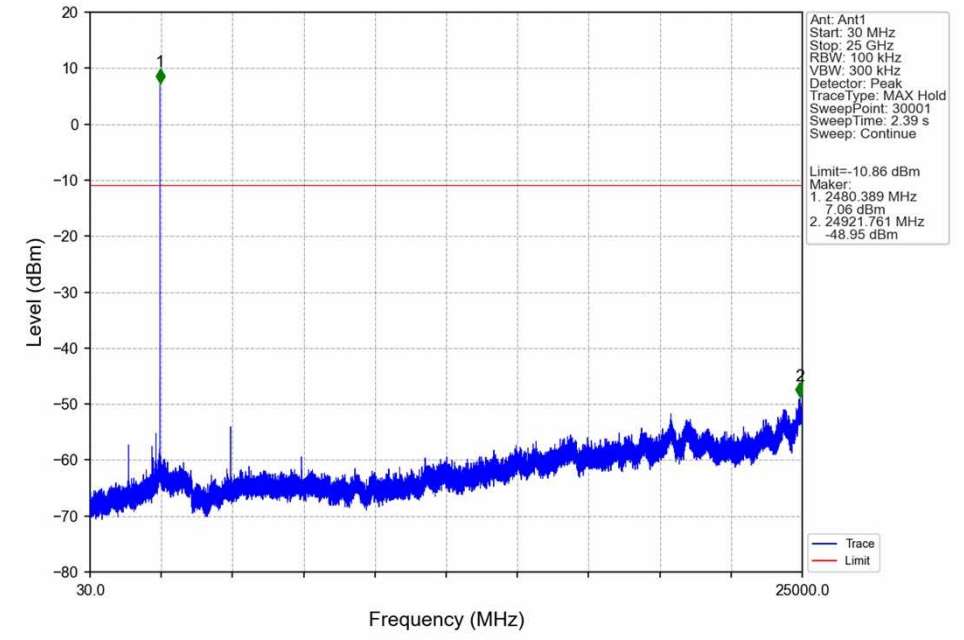
1M_HCH_2480MHz_Ant1_NTNV



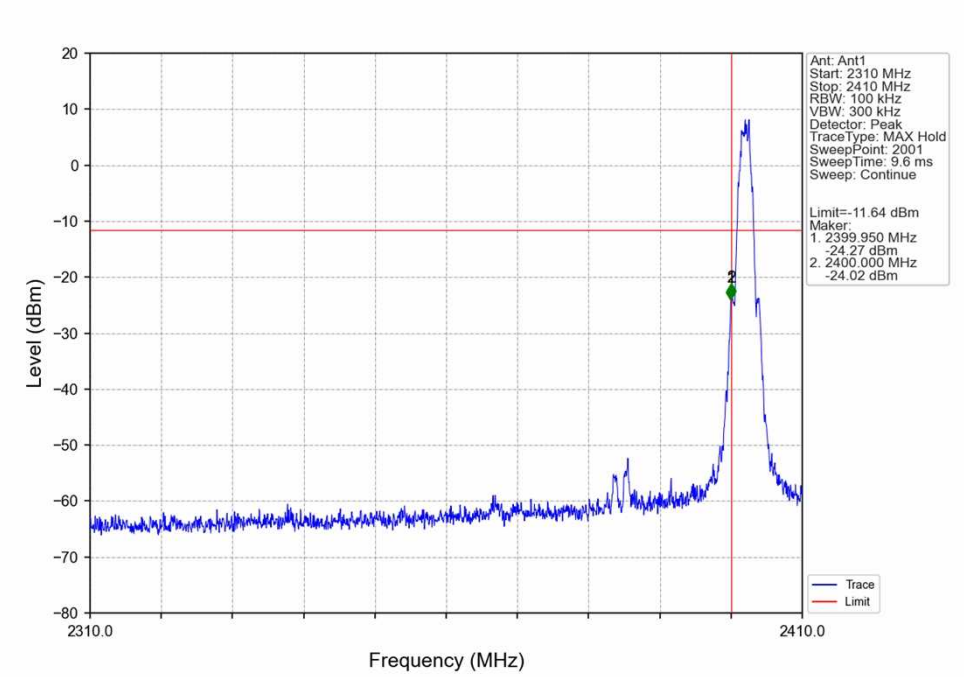
1M_HCH_2480MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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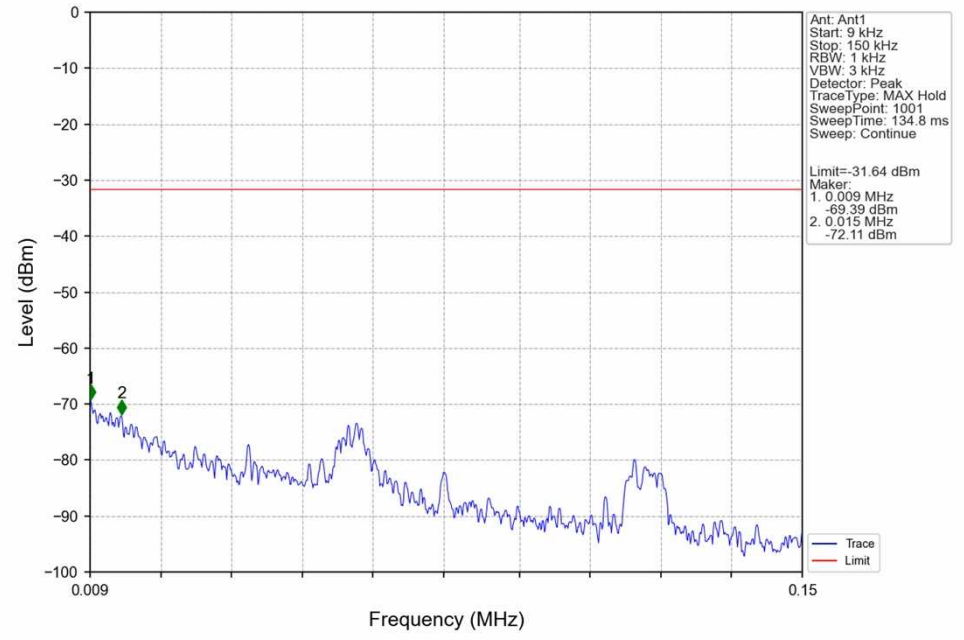

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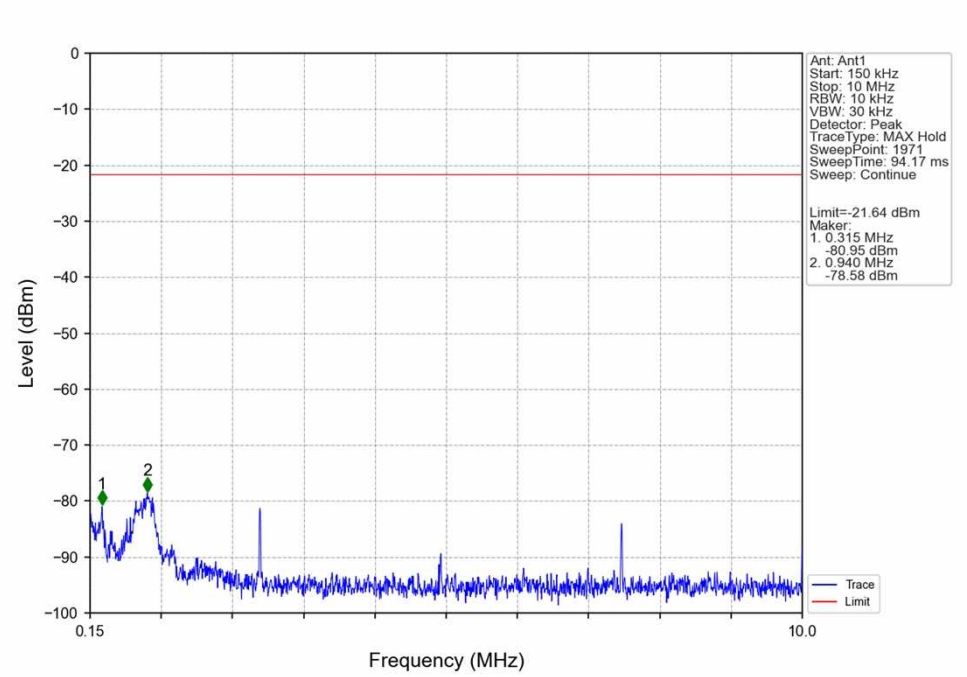

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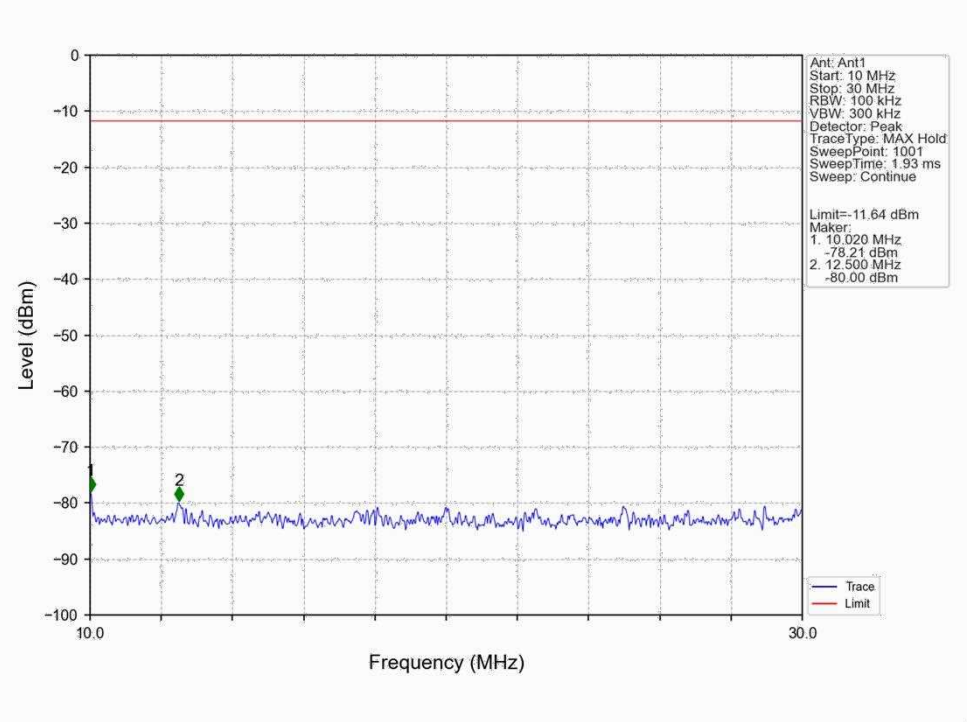
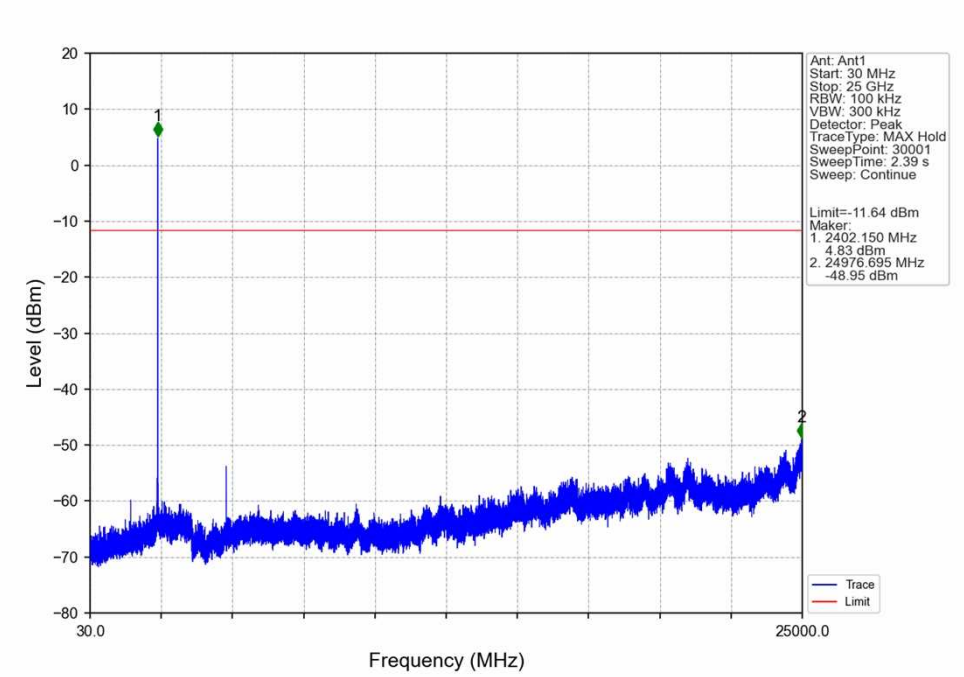


2M_LCH_2402MHz_Ant1_NTNV



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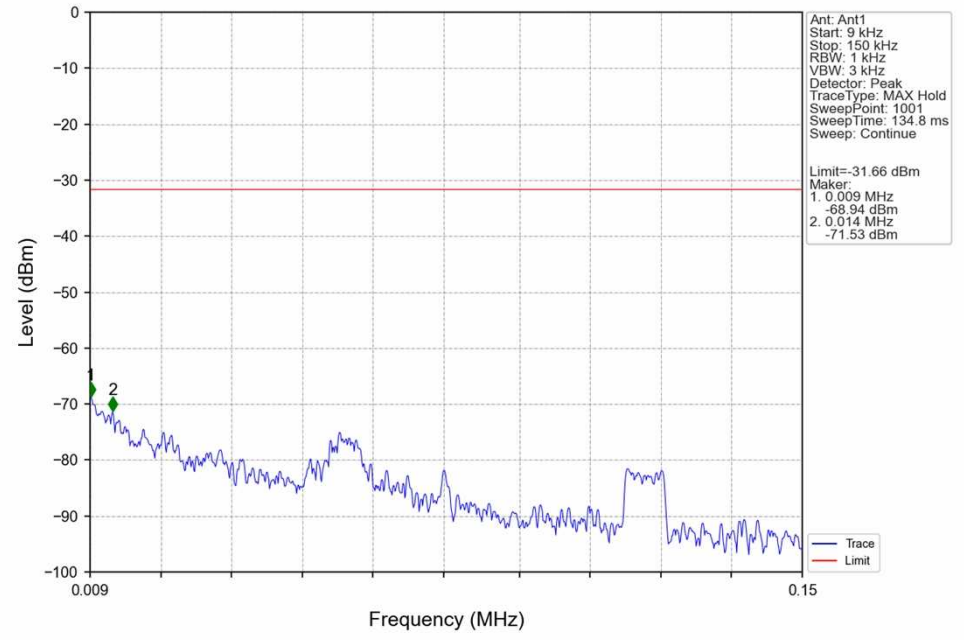

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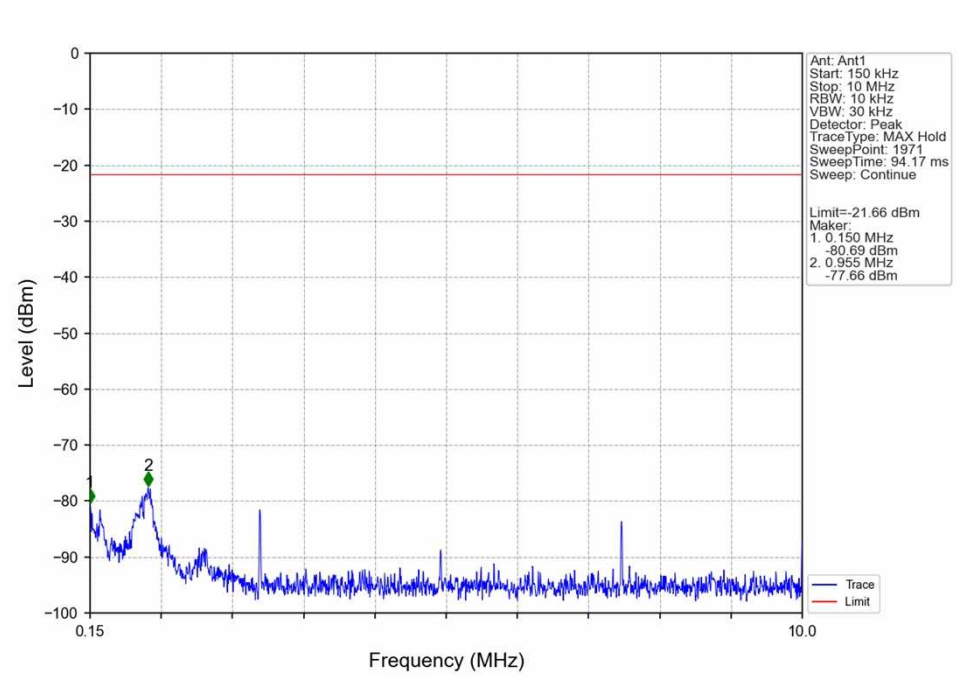

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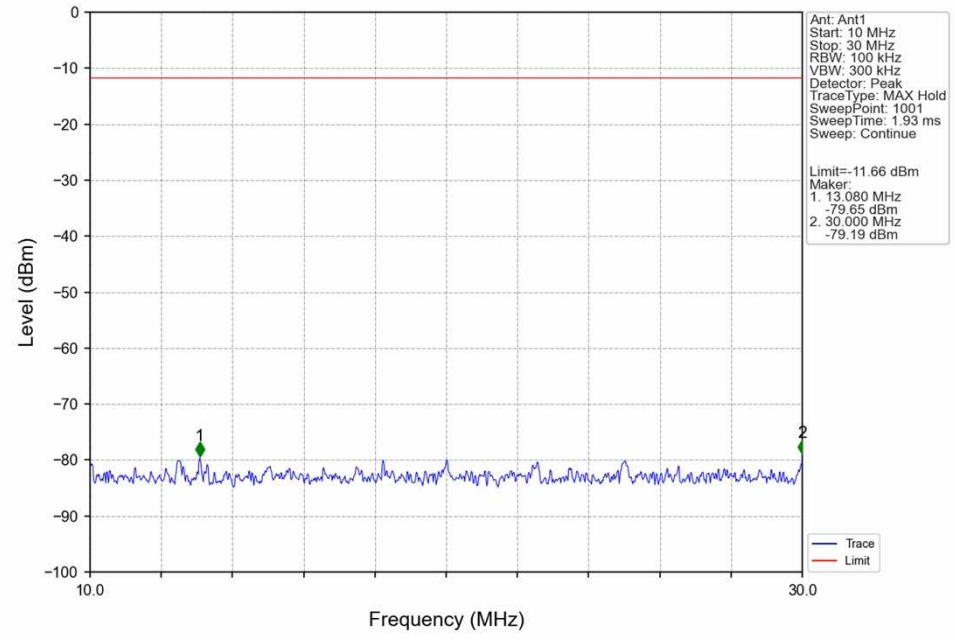

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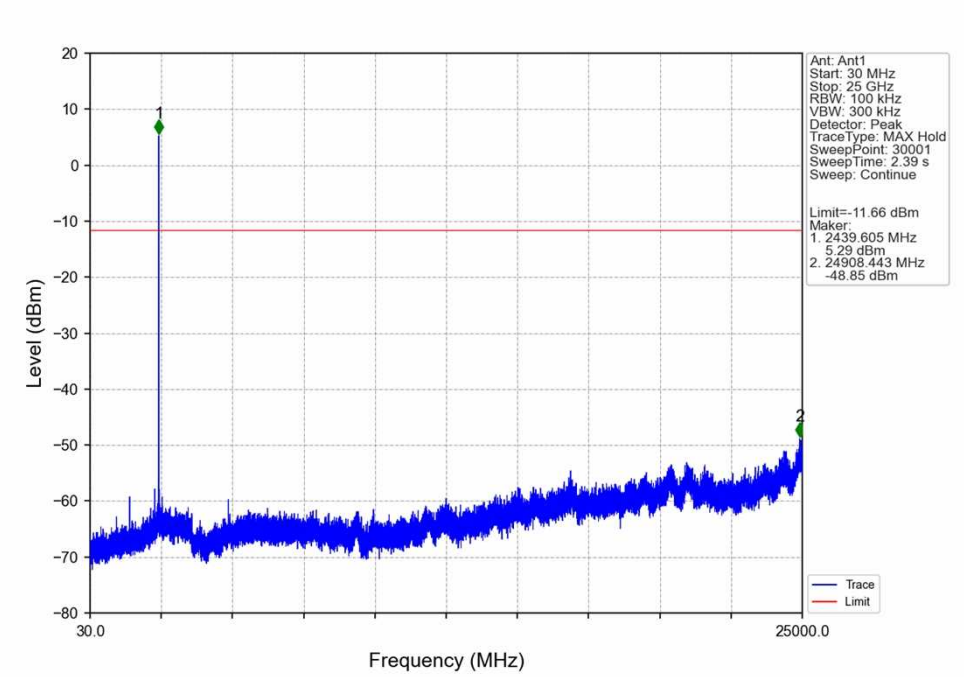

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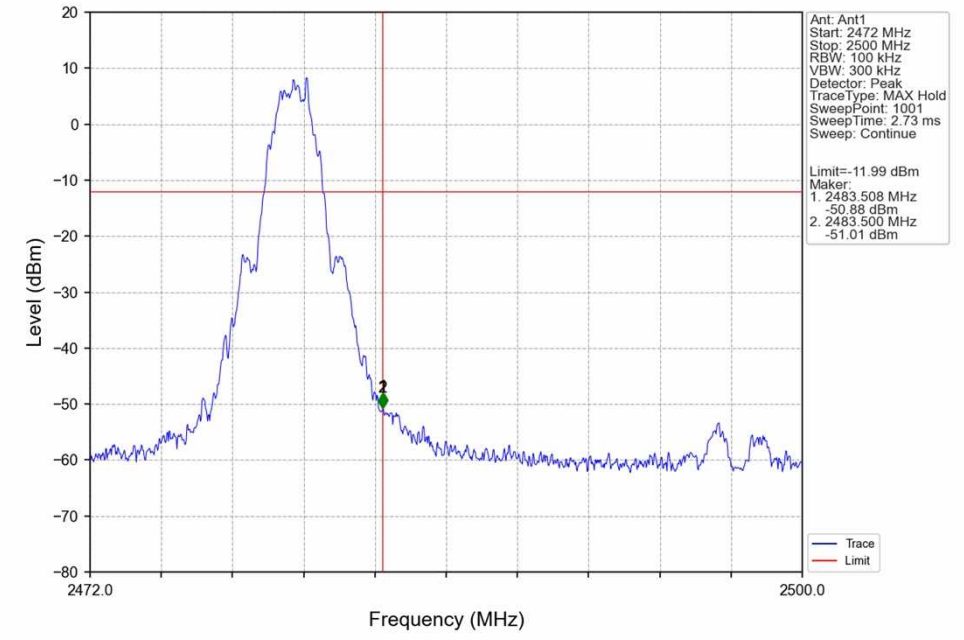

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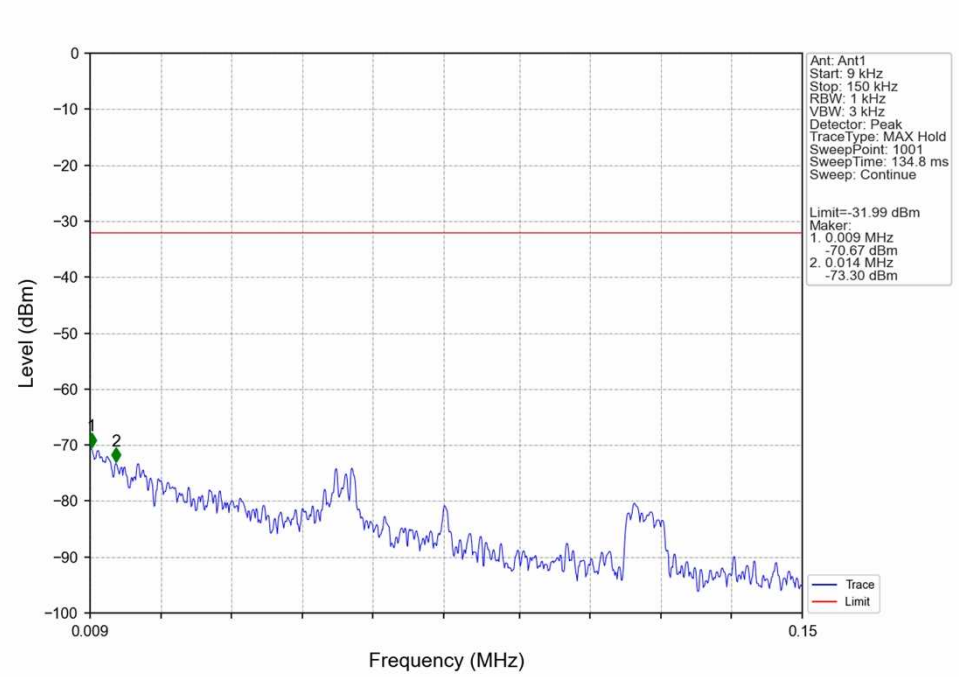
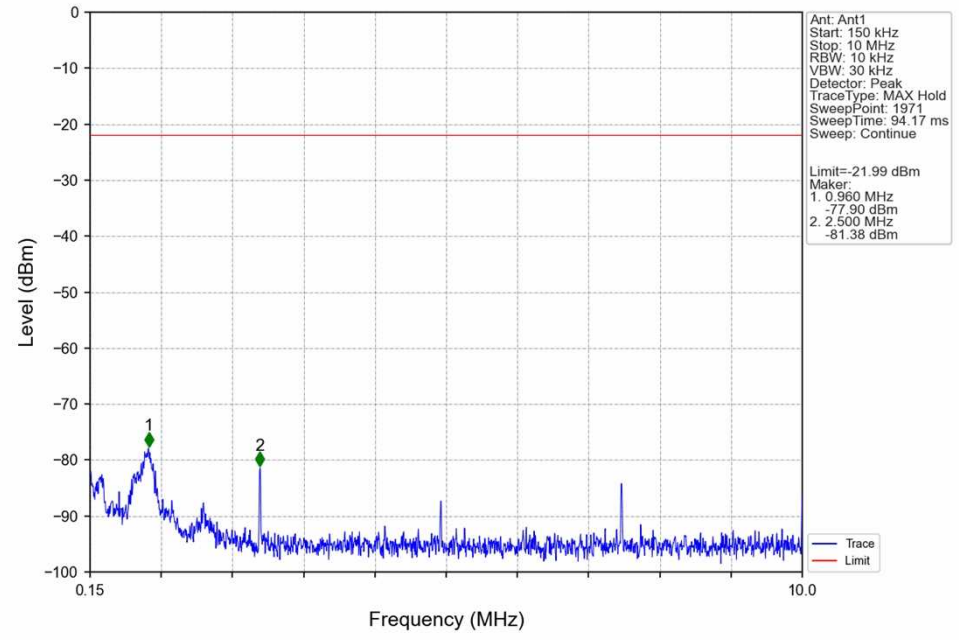
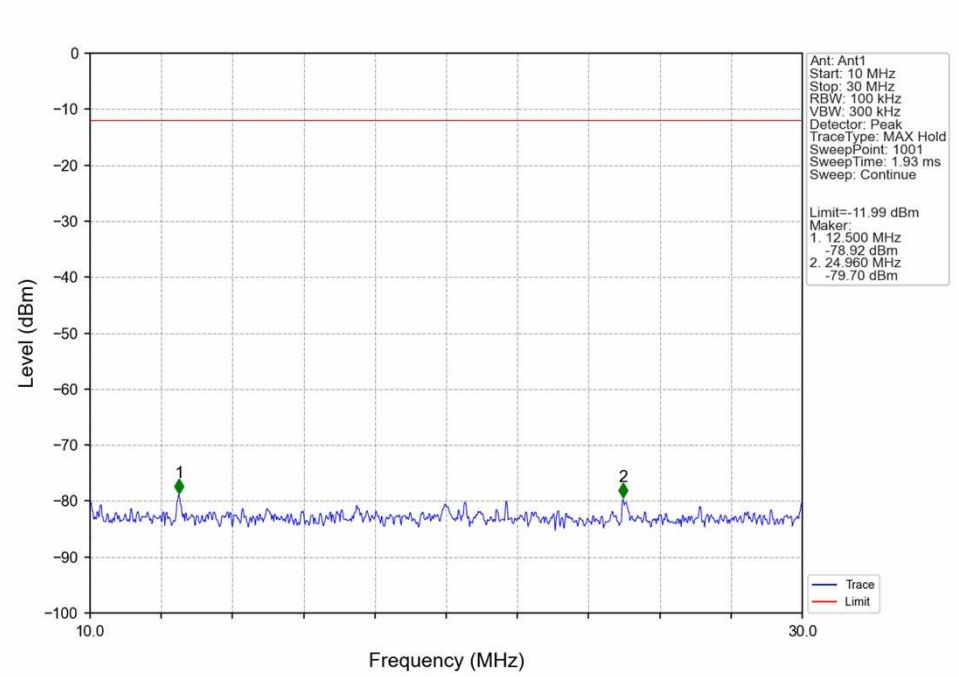
2M_HCH_2480MHz_Ant1_NTNV



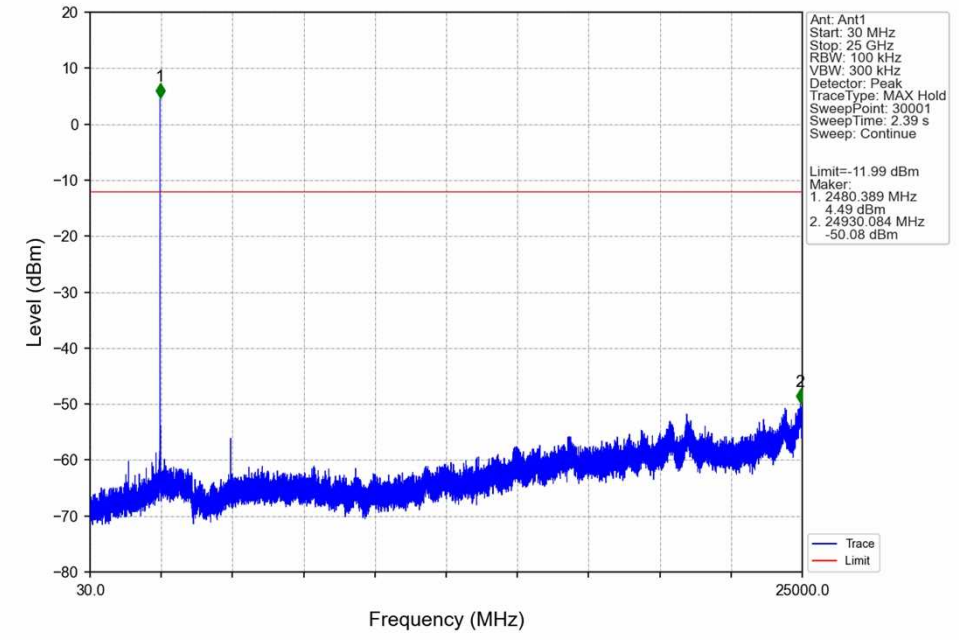
2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0092	9.65

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-- END OF REPORT --