



RF Test Report

For

Applicant Name: Fuzhou Geek Yanxuan Technology Co., Ltd.
Address: 99 Qunzhong Dong Lu, Xingang Street, Taijiang District, Fuzhou City, Fujian Province, China
EUT Name: VGN DragonFLY F1 Mouse
Brand Name: VGN
Model Number: F1 Promax
Series Model Number: Refer to section 2

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: BTF230508R00401
Test Standards: 47 CFR Part 15.247
FCC ID: 2A9WZ-F1PROMAX
Test Conclusion: Pass
Test Date: 2023-05-08 to 2023-05-16
Date of Issue: 2023-05-17

Prepared By:

Chris Liu

Chris Liu / Project Engineer

Date:

2023-05-17

Approved By:

Ryan.CJ

Ryan.CJ / EMC Manager

Date:

2023-05-17

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	2023-05-17	Original
<i>Note: Once the revision has been made, then previous versions reports are invalid.</i>		

Table of Contents

1	INTRODUCTION	5
1.1	Identification of Testing Laboratory	5
1.2	Identification of the Responsible Testing Location	5
1.3	Announcement	5
2	PRODUCT INFORMATION.....	6
2.1	Application Information	6
2.2	Manufacturer Information.....	6
2.3	Factory Information	6
2.4	General Description of Equipment under Test (EUT)	6
2.5	Technical Information	6
3	SUMMARY OF TEST RESULTS	7
3.1	Test Standards.....	7
3.2	Uncertainty of Test	7
3.3	Summary of Test Result	7
4	TEST CONFIGURATION	8
4.1	Test Equipment List	8
4.2	Test Auxiliary Equipment	12
4.3	Test Modes	12
5	EVALUATION RESULTS (EVALUATION).....	13
5.1	Antenna requirement	13
6	RADIO SPECTRUM MATTER TEST RESULTS (RF).....	13
6.1	Conducted Emission at AC power line	13
6.1.1	E.U.T. Operation:.....	13
6.1.2	Test Setup Diagram:.....	13
6.1.3	Test Data:	15
6.2	Occupied Bandwidth	17
6.2.1	E.U.T. Operation:.....	17
6.2.2	Test Setup Diagram:.....	17
6.2.3	Test Data:	17
6.3	Maximum Conducted Output Power	18
6.3.1	E.U.T. Operation:.....	18
6.3.2	Test Setup Diagram:.....	19
6.3.3	Test Data:	19
6.4	Power Spectral Density	20
6.4.1	E.U.T. Operation:.....	20
6.4.2	Test Setup Diagram:.....	20
6.4.3	Test Data:	20
6.5	Emissions in non-restricted frequency bands.....	21
6.5.1	E.U.T. Operation:.....	21
6.5.2	Test Setup Diagram:.....	22
6.5.3	Test Data:	22
6.6	Band edge emissions (Radiated)	23
6.6.1	E.U.T. Operation:.....	23
6.6.2	Test Data:	24
6.7	Emissions in restricted frequency bands (below 1GHz).....	25
6.7.1	E.U.T. Operation:.....	25
6.7.2	Test Data:	26

6.8	Emissions in restricted frequency bands (above 1GHz)	32
6.8.1	E.U.T. Operation:	32
6.8.2	Test Data:	33
7	TEST SETUP PHOTOS	35
8	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	37
	APPENDIX	44

1 Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130
FCC Registration Number:	518915
Designation Number:	CN1330

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.

2 Product Information

2.1 Application Information

Company Name:	Fuzhou Geek Yanxuan Technology Co., Ltd.
Address:	99 Qunzhong Dong Lu, Xingang Street, Taijiang District, Fuzhou City, Fujian Province, China

2.2 Manufacturer Information

Company Name:	Dongguan Dianxuntong Electronics Technology Co.,Ltd
Address:	Room 302,Building A,No.6 Wende Street,Xiabian Community,Chang'an Town,Dongguan city,Guangdong Province

2.3 Factory Information

Company Name:	Dongguan Dianxuntong Electronics Technology Co.,Ltd
Address:	Room 302,Building A,No.6 Wende Street,Xiabian Community,Chang'an Town,Dongguan city,Guangdong Province

2.4 General Description of Equipment under Test (EUT)

EUT Name:	VGN DragonFLY F1 Mouse
Test Model Number:	F1 Promax
Series Model Number:	F1 Pro
Description of Model name differentiation:	Only the model name and color are different, the others are the same.

2.5 Technical Information

Power Supply:	3.7V from battery
Operation Frequency:	2403MHz to 2480MHz
Number of Channels:	16
Modulation Type:	GFSK
Antenna Type:	PCB ANT
Antenna Gain#:	0.95 dBi

Note:

#: The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.

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

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	±2.64dB
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	Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
Occupied 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)	Pass
Emissions in restricted frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Emissions in restricted frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass

4 Test Configuration

4.1 Test Equipment List

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2022-11-24	2023-11-23
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2022-11-24	2023-11-23
V-LISN	SCHWARZBECK	NSLK 8127	01073	2022-11-24	2023-11-23
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22
EMI Receiver	ROHDE&SCHWARZ	ESCI3	101422	2022-11-24	2023-11-23

Occupied Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Maximum Conducted Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Power Spectral Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/

RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Emissions in non-restricted frequency bands

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Band edge emissions (Radiated)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMAMAM-10m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMAMAM-1m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2022-11-24	2023-11-23

POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preampilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Emissions in restricted frequency bands (below 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preampilifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preampilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Emissions in restricted frequency bands (above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preampilifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23

POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMCC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

No.	Test Modes	Description
TM1	TX mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation.

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
-------------------	--

6 Radio Spectrum Matter Test Results (RF)

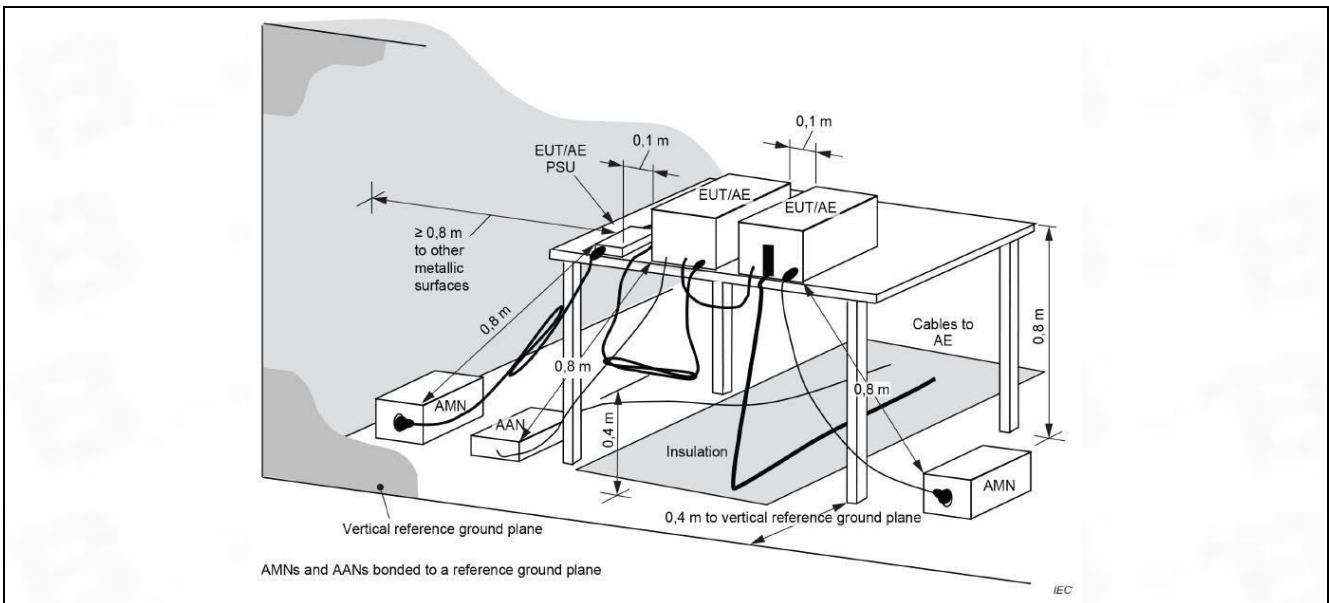
6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		

6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.2 °C
Humidity:	51.3 %
Atmospheric Pressure:	1010 mbar

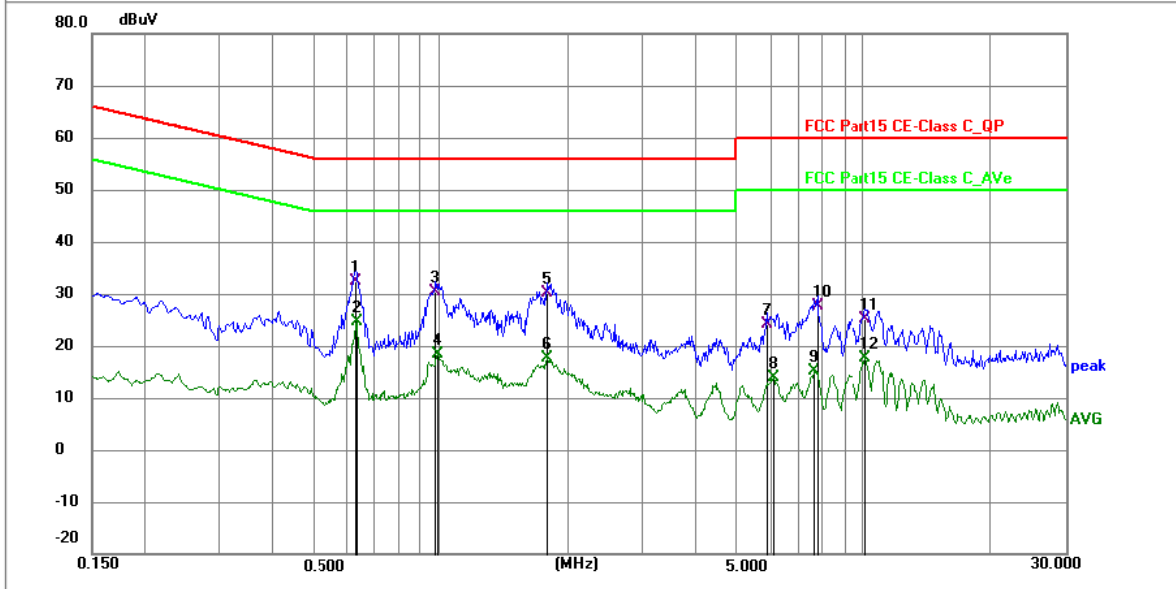
6.1.2 Test Setup Diagram:





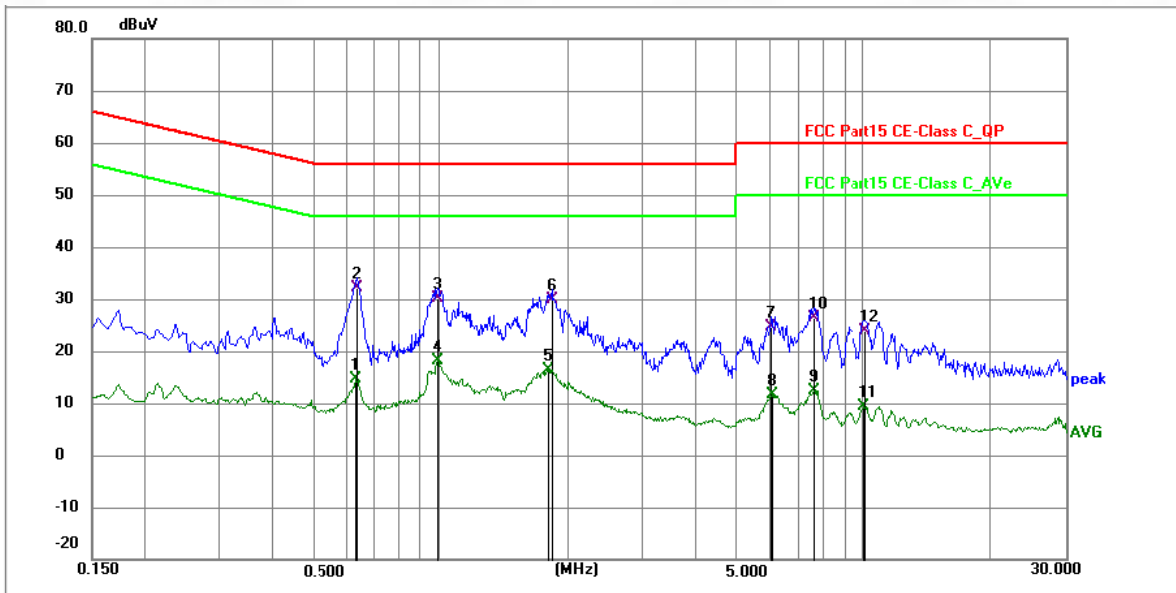
6.1.3 Test Data:

TM1 / Line: Line / Band: 2.4G / BW: 2 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.6312	21.59	10.69	32.28	56.00	-23.72	QP	P	
2 *	0.6360	13.93	10.69	24.62	46.00	-21.38	AVG	P	
3	0.9780	19.62	10.78	30.40	56.00	-25.60	QP	P	
4	0.9870	7.60	10.78	18.38	46.00	-27.62	AVG	P	
5	1.7880	19.31	10.71	30.02	56.00	-25.98	QP	P	
6	1.7880	6.97	10.71	17.68	46.00	-28.32	AVG	P	
7	5.8963	13.47	10.78	24.25	60.00	-35.75	QP	P	
8	6.1124	3.06	10.78	13.84	50.00	-36.16	AVG	P	
9	7.5795	4.43	10.78	15.21	50.00	-34.79	AVG	P	
10	7.7324	16.86	10.79	27.65	60.00	-32.35	QP	P	
11	10.1082	14.28	10.95	25.23	60.00	-34.77	QP	P	
12	10.1082	6.67	10.95	17.62	50.00	-32.38	AVG	P	

TM1 / Line: Neutral / Band: 2.4G / BW: 2 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.6312	4.02	10.69	14.71	46.00	-31.29	AVG	P	
2 *	0.6360	21.39	10.69	32.08	56.00	-23.92	QP	P	
3	0.9870	19.35	10.78	30.13	56.00	-25.87	QP	P	
4	0.9870	7.23	10.78	18.01	46.00	-27.99	AVG	P	
5	1.7970	5.77	10.71	16.48	46.00	-29.52	AVG	P	
6	1.8330	19.30	10.70	30.00	56.00	-26.00	QP	P	
7	6.0270	13.77	10.78	24.55	60.00	-35.45	QP	P	
8	6.0630	0.95	10.78	11.73	50.00	-38.27	AVG	P	
9	7.6020	1.69	10.78	12.47	50.00	-37.53	AVG	P	
10	7.6290	15.67	10.78	26.45	60.00	-33.55	QP	P	
11	10.0590	-1.58	10.95	9.37	50.00	-40.63	AVG	P	
12	10.0815	12.96	10.95	23.91	60.00	-36.09	QP	P	

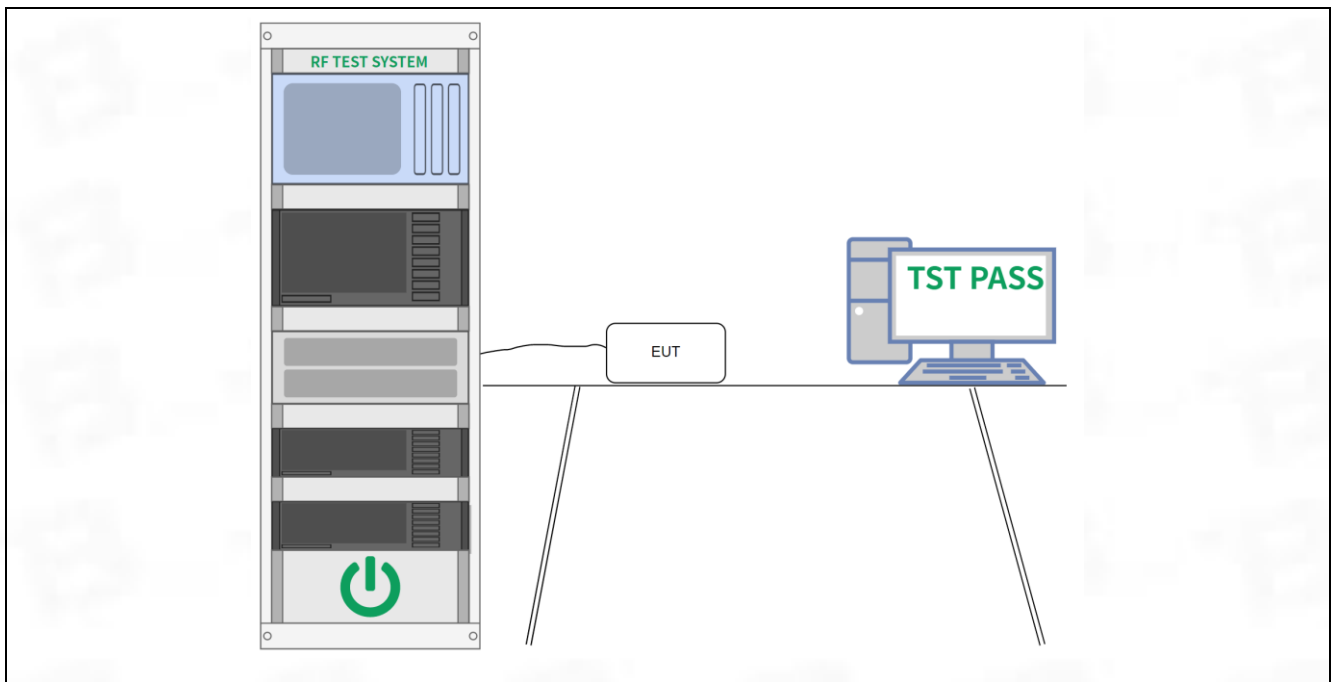
6.2 Occupied Bandwidth

Test Requirement:	Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	DTS bandwidth
Test Limit:	Section (a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Procedure:	<ul style="list-style-type: none"> a) Set RBW = 100 kHz. b) Set the VBW \geq [3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.7 °C
Humidity:	51.4 %
Atmospheric Pressure:	1010 mbar

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.

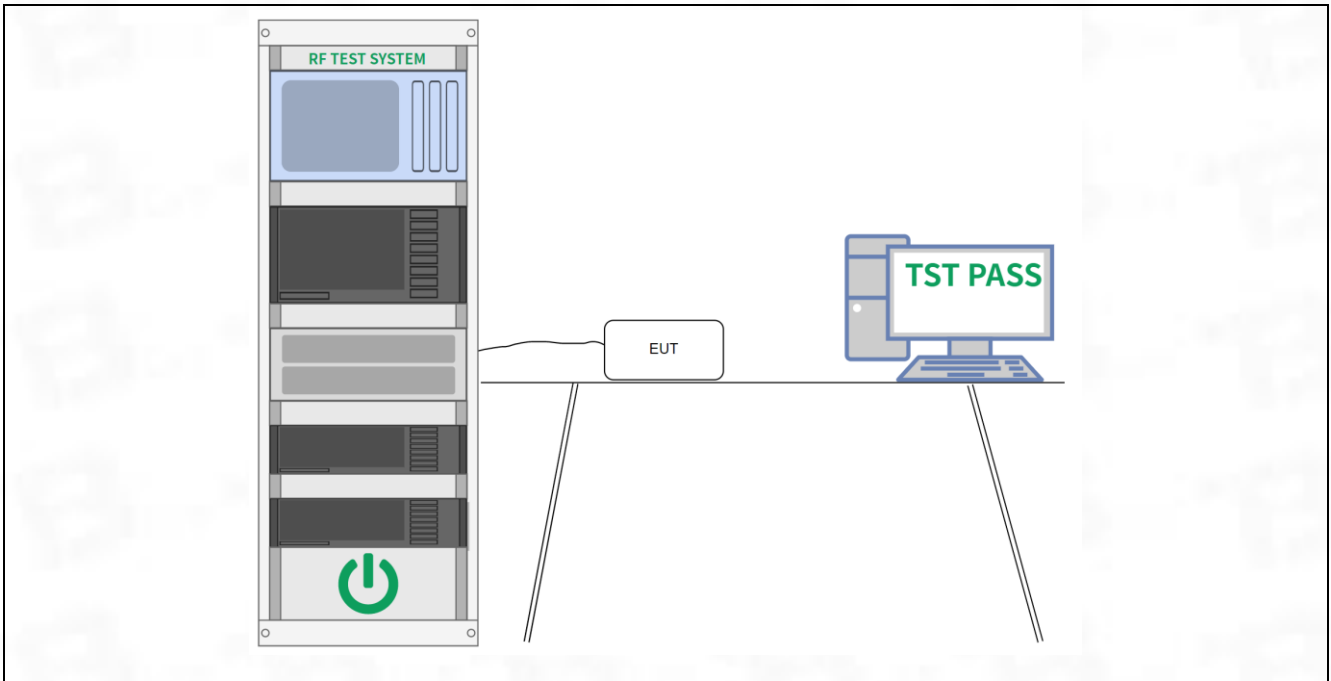
6.3 Maximum Conducted Output Power

Test Requirement:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	Maximum peak conducted output power
Test Limit:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power

6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.7 °C
Humidity:	51.4 %
Atmospheric Pressure:	1010 mbar

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

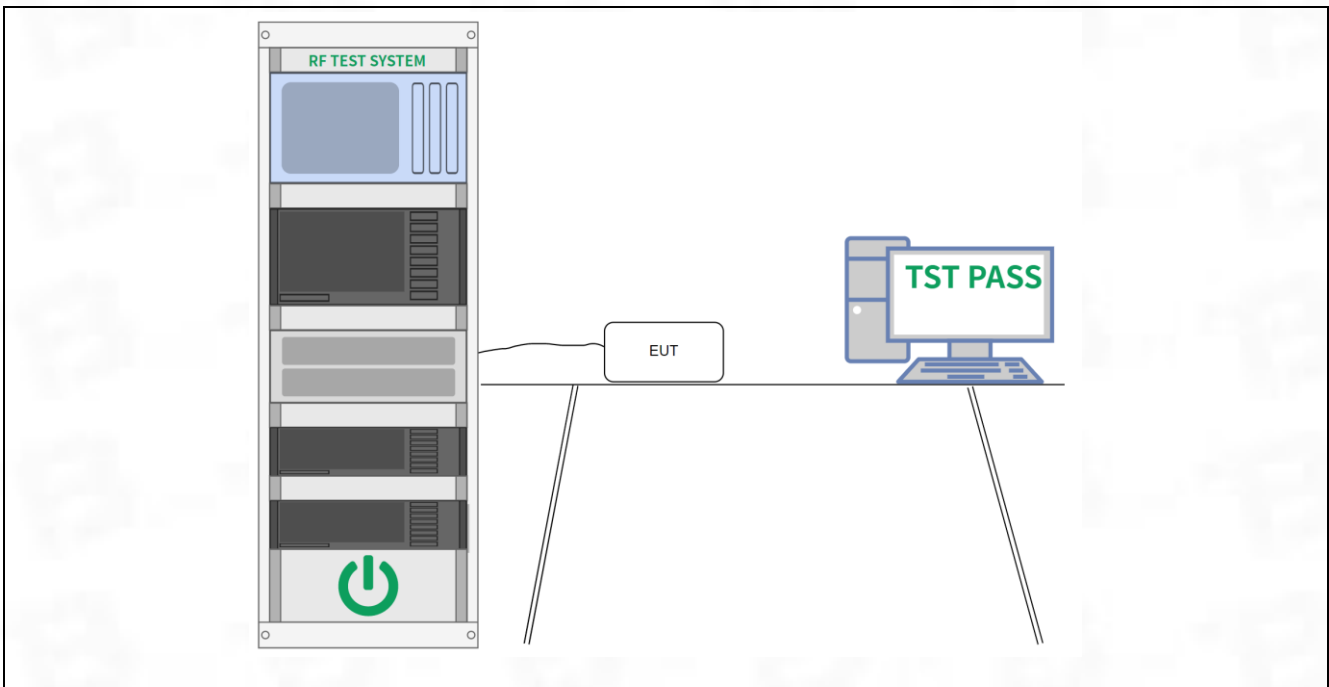
6.4 Power Spectral Density

Test Requirement:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	Maximum power spectral density level in the fundamental emission
Test Limit:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.7 °C
Humidity:	51.4 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.

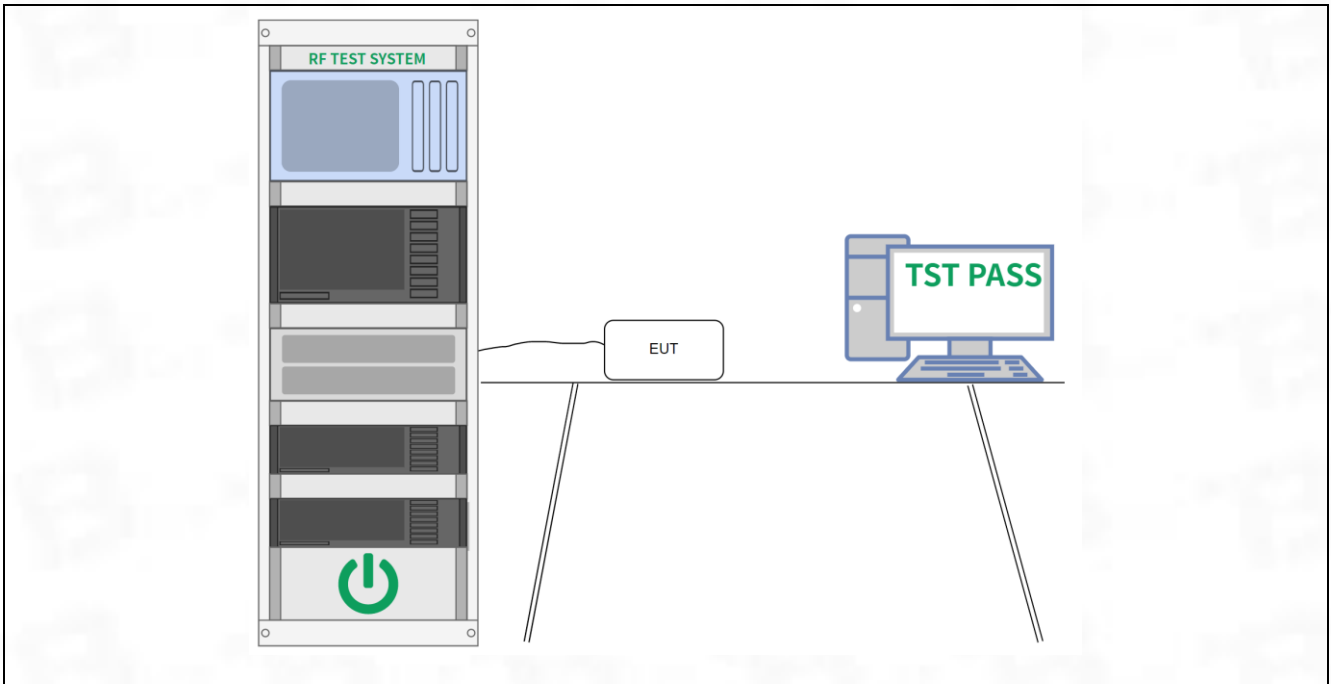
6.5 Emissions in non-restricted frequency bands

Test Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	Emissions in nonrestricted frequency bands
Test Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.7 °C
Humidity:	51.4 %
Atmospheric Pressure:	1010 mbar

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.

6.6 Band edge emissions (Radiated)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Method:	Radiated emissions tests		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.			
Procedure:	ANSI C63.10-2013 section 6.6.4		

6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24 °C
Humidity:	51 %
Atmospheric Pressure:	1010 mbar

6.6.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	69.44	-30.59	38.85	74.00	-35.15	peak	P
2	2390.000	69.50	-30.49	39.01	74.00	-34.99	peak	P
3 *	2400.000	81.22	-30.48	50.74	74.00	-23.26	peak	P

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	72.44	-30.59	41.85	74.00	-32.15	peak	P
2	2390.000	72.00	-30.49	41.51	74.00	-32.49	peak	P
3 *	2400.000	82.22	-30.48	51.74	74.00	-22.26	peak	P

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	82.20	-30.39	51.81	74.00	-22.19	peak	P
2	2500.000	69.28	-30.37	38.91	74.00	-35.09	peak	P

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	82.20	-30.39	51.81	74.00	-22.19	peak	P
2	2500.000	70.78	-30.37	40.41	74.00	-33.59	peak	P

6.7 Emissions in restricted frequency bands (below 1GHz)

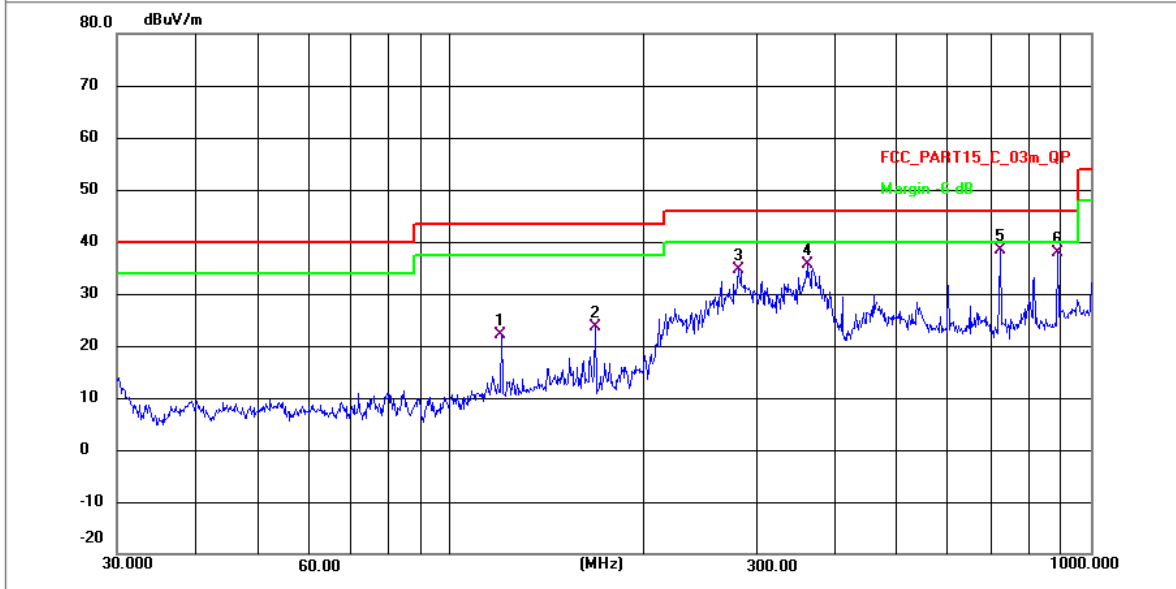
Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Method:	Radiated emissions tests		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.			
Procedure:	ANSI C63.10-2013 section 6.6.4		

6.7.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24 °C
Humidity:	51 %
Atmospheric Pressure:	1010 mbar

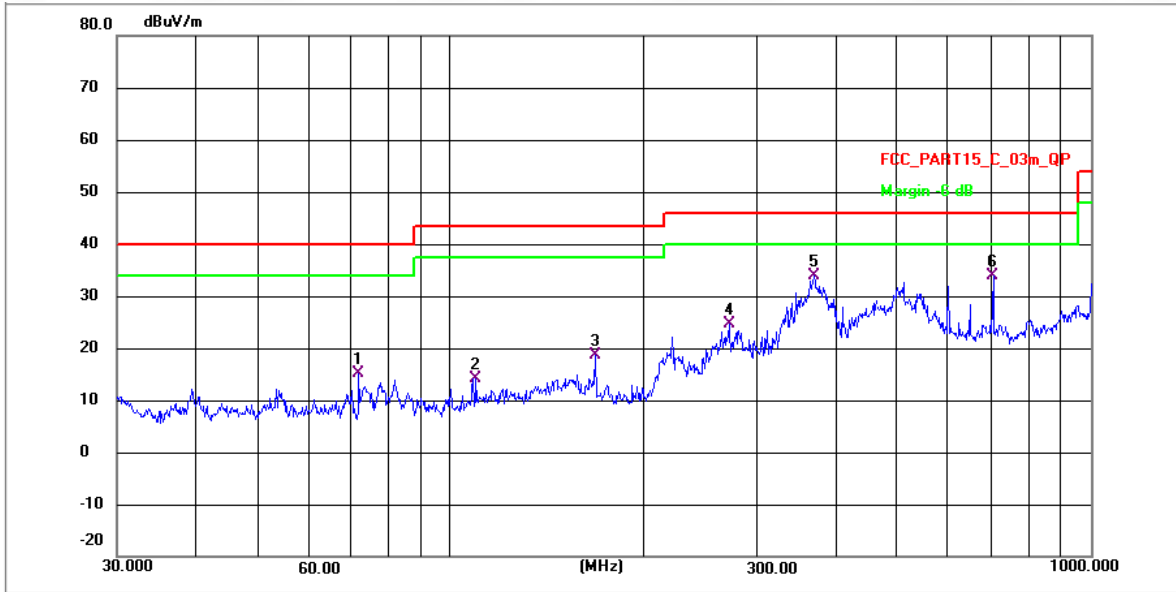
6.7.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: L



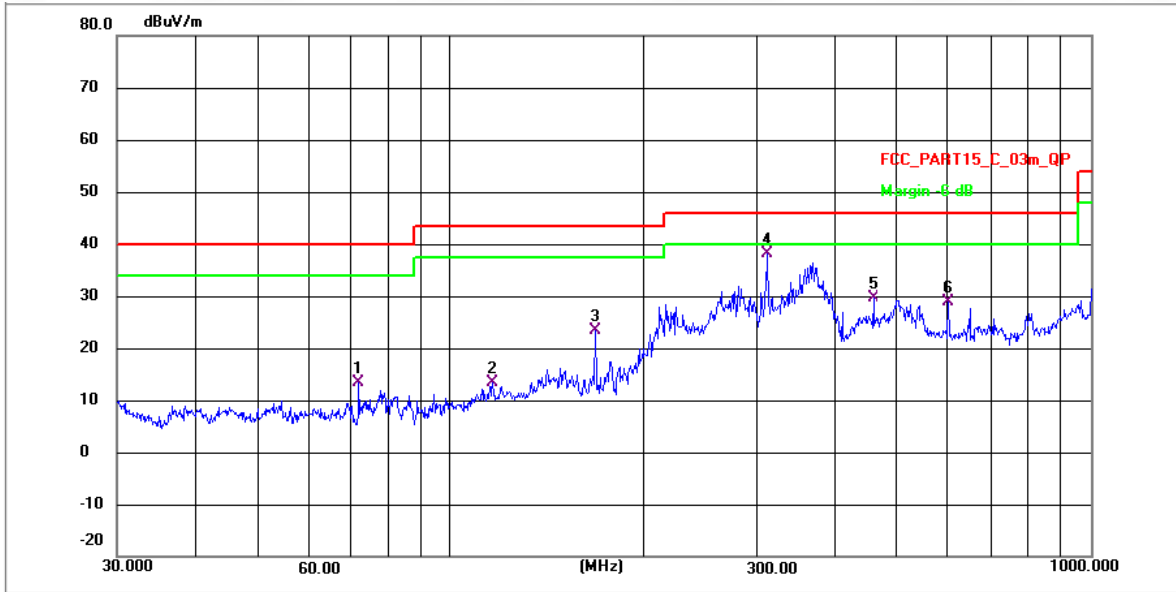
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	120.0659	50.17	-28.05	22.12	43.50	-21.38	QP	P
2	168.1188	51.21	-27.61	23.60	43.50	-19.90	QP	P
3	281.5006	60.25	-25.59	34.66	46.00	-11.34	QP	P
4	359.1860	60.56	-24.96	35.60	46.00	-10.40	QP	P
5 *	722.9924	62.10	-23.69	38.41	46.00	-7.59	QP	P
6	890.7278	60.03	-22.23	37.80	46.00	-8.20	QP	P

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: L



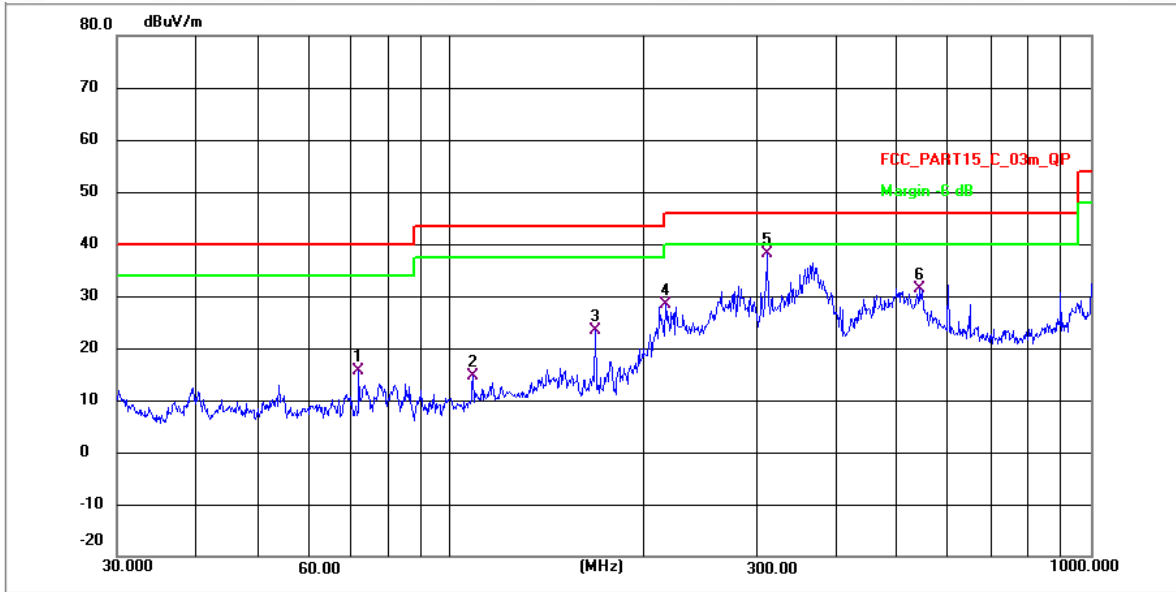
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	71.9581	35.09	-19.96	15.13	40.00	-24.87	QP	P
2	109.6036	42.24	-28.14	14.10	43.50	-29.40	QP	P
3	168.1188	46.27	-27.61	18.66	43.50	-24.84	QP	P
4	272.2776	50.18	-25.66	24.52	46.00	-21.48	QP	P
5	368.7576	58.76	-24.88	33.88	46.00	-12.12	QP	P
6 *	705.4619	57.46	-23.52	33.94	46.00	-12.06	QP	P

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: M



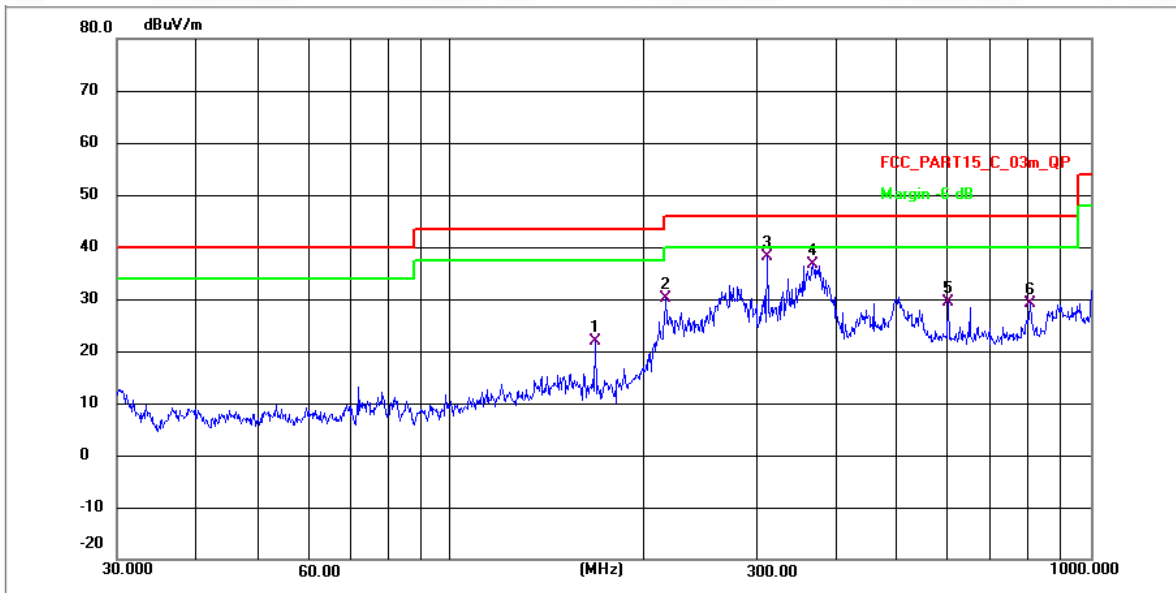
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	71.9580	31.58	-18.09	13.49	40.00	-26.51	QP	P
2	116.5400	41.38	-28.08	13.30	43.50	-30.20	QP	P
3	168.1187	51.05	-27.61	23.44	43.50	-20.06	QP	P
4 *	312.1794	63.48	-25.33	38.15	46.00	-7.85	QP	P
5	455.9058	51.80	-22.15	29.65	46.00	-16.35	QP	P
6	600.3730	51.13	-22.21	28.92	46.00	-17.08	QP	P

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: M



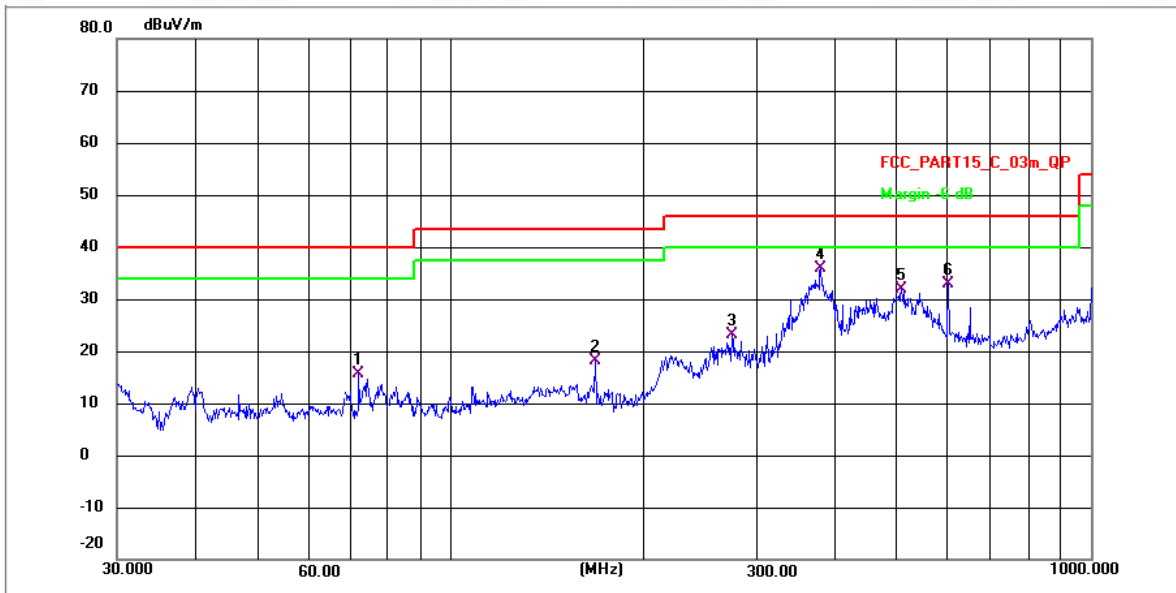
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	71.9581	35.49	-19.96	15.53	40.00	-24.47	QP	P
2	108.2667	42.72	-28.15	14.57	43.50	-28.93	QP	P
3	168.1188	51.05	-27.61	23.44	43.50	-20.06	QP	P
4	216.0240	54.92	-26.63	28.29	46.00	-17.71	QP	P
5 *	312.1794	63.48	-25.33	38.15	46.00	-7.85	QP	P
6	541.3725	53.07	-21.57	31.50	46.00	-14.50	QP	P

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	168.1188	49.38	-27.61	21.77	43.50	-21.73	QP	P
2	216.0240	56.86	-26.63	30.23	46.00	-15.77	QP	P
3 *	312.1794	63.44	-25.33	38.11	46.00	-7.89	QP	P
4	367.4668	61.46	-24.89	36.57	46.00	-9.43	QP	P
5	600.3730	51.54	-22.21	29.33	46.00	-16.67	QP	P
6	806.0147	52.65	-23.62	29.03	46.00	-16.97	QP	P

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	71.9581	35.67	-19.96	15.71	40.00	-24.29	QP	P
2	168.1188	45.86	-27.61	18.25	43.50	-25.25	QP	P
3	274.1939	48.85	-25.65	23.20	46.00	-22.80	QP	P
4 *	377.2591	60.66	-24.81	35.85	46.00	-10.15	QP	P
5	506.4791	53.00	-21.21	31.79	46.00	-14.21	QP	P
6	600.3730	55.07	-22.21	32.86	46.00	-13.14	QP	P

6.8 Emissions in restricted frequency bands (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Method:	Radiated emissions tests		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.			
Procedure:	ANSI C63.10-2013 section 6.6.4		

6.8.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24 °C
Humidity:	51 %
Atmospheric Pressure:	1010 mbar

6.8.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1146.501	67.43	-29.78	37.65	74.00	-36.35	peak	P
2	1920.616	67.57	-31.06	36.51	74.00	-37.49	peak	P
3	3339.640	69.75	-29.20	40.55	74.00	-33.45	peak	P
4	6686.766	74.35	-25.21	49.14	74.00	-24.86	peak	P
5	11104.946	75.60	-23.36	52.24	74.00	-21.76	peak	P
6 *	14813.823	76.90	-20.69	56.21	74.00	-17.79	peak	P

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1203.895	67.26	-30.09	37.17	74.00	-36.83	peak	P
2	1948.011	69.61	-31.01	38.60	74.00	-35.40	peak	P
3	3470.522	70.70	-29.09	41.61	74.00	-32.39	peak	P
4	6686.766	76.35	-25.21	51.14	74.00	-22.86	peak	P
5	11309.013	76.09	-23.21	52.88	74.00	-21.12	peak	P
6 *	15363.267	76.58	-21.19	55.39	74.00	-18.61	peak	P

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1140.222	66.74	-29.75	36.99	74.00	-37.01	peak	P
2	1928.404	69.47	-31.04	38.43	74.00	-35.57	peak	P
3	3164.839	70.28	-29.36	40.92	74.00	-33.08	peak	P
4	5850.898	69.18	-25.82	43.36	74.00	-30.64	peak	P
5	7728.679	73.88	-25.12	48.76	74.00	-25.24	peak	P
6 *	14337.801	76.77	-21.16	55.61	74.00	-18.39	peak	P

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1128.093	68.76	-29.68	39.08	74.00	-34.92	peak	P
2	2043.165	69.10	-30.88	38.22	74.00	-35.78	peak	P
3	3780.514	69.19	-29.03	40.16	74.00	-33.84	peak	P
4	6609.903	74.15	-25.28	48.87	74.00	-25.13	peak	P
5	10493.325	75.69	-24.51	51.18	74.00	-22.82	peak	P
6 *	14337.801	77.27	-21.16	56.11	74.00	-17.89	peak	P

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1200.073	68.67	-30.07	38.60	74.00	-35.40	peak	P
2	1983.234	69.45	-30.96	38.49	74.00	-35.51	peak	P
3	3347.371	73.97	-29.19	44.78	74.00	-29.22	peak	P
4	7277.725	79.25	-24.85	54.40	74.00	-19.60	peak	P
5	9558.018	81.37	-23.33	58.04	74.00	-15.96	peak	P
6 *	15354.388	85.16	-21.17	63.99	74.00	-10.01	peak	P

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: H

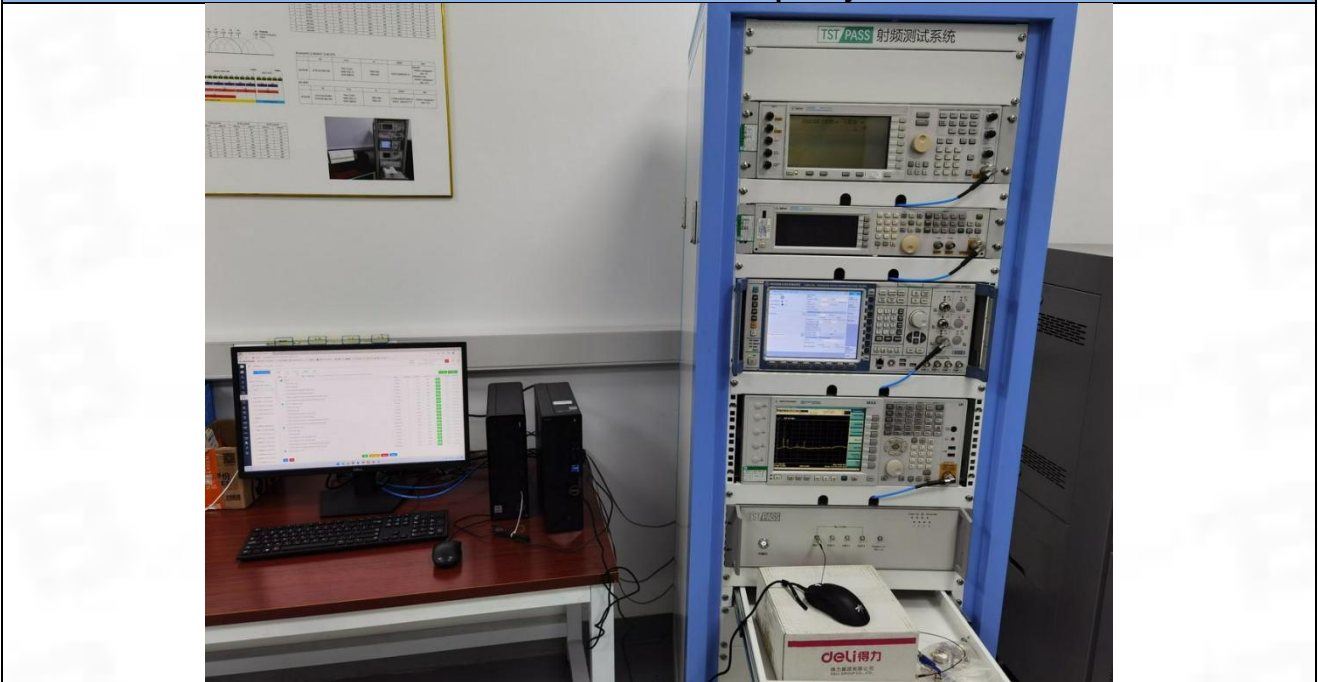
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1096.270	69.52	-29.51	40.01	74.00	-33.99	peak	P
2	2046.120	70.75	-30.88	39.87	74.00	-34.13	peak	P
3	3347.371	73.47	-29.19	44.28	74.00	-29.72	peak	P
4	5834.012	75.64	-25.87	49.77	74.00	-24.23	peak	P
5	7650.888	78.37	-25.00	53.37	74.00	-20.63	peak	P
6 *	13423.394	83.12	-21.03	62.09	74.00	-11.91	peak	P

7 Test Setup Photos

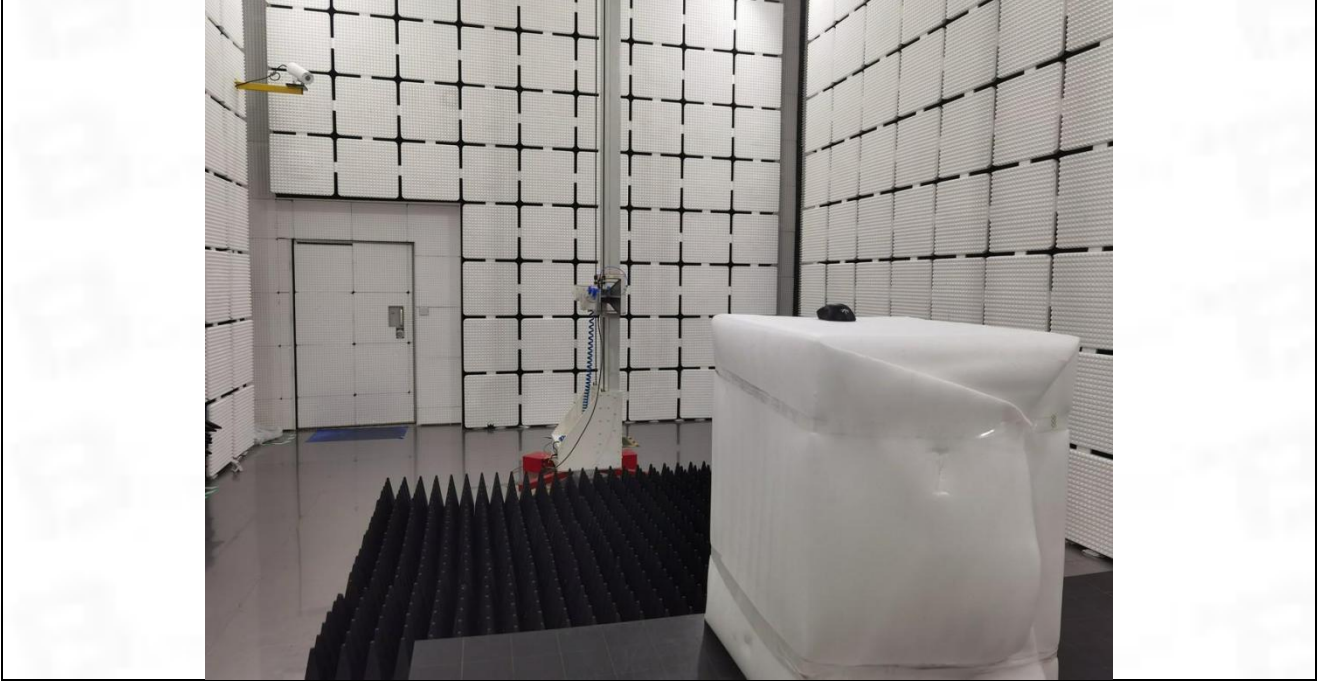
Conducted Emission at AC power line



Occupied Bandwidth
Maximum Conducted Output Power
Power Spectral Density
Emissions in non-restricted frequency bands



Band edge emissions (Radiated)
Emissions in restricted frequency bands (above 1GHz)



Emissions in restricted frequency bands (below 1GHz)



8 EUT Constructional Details (EUT Photos)

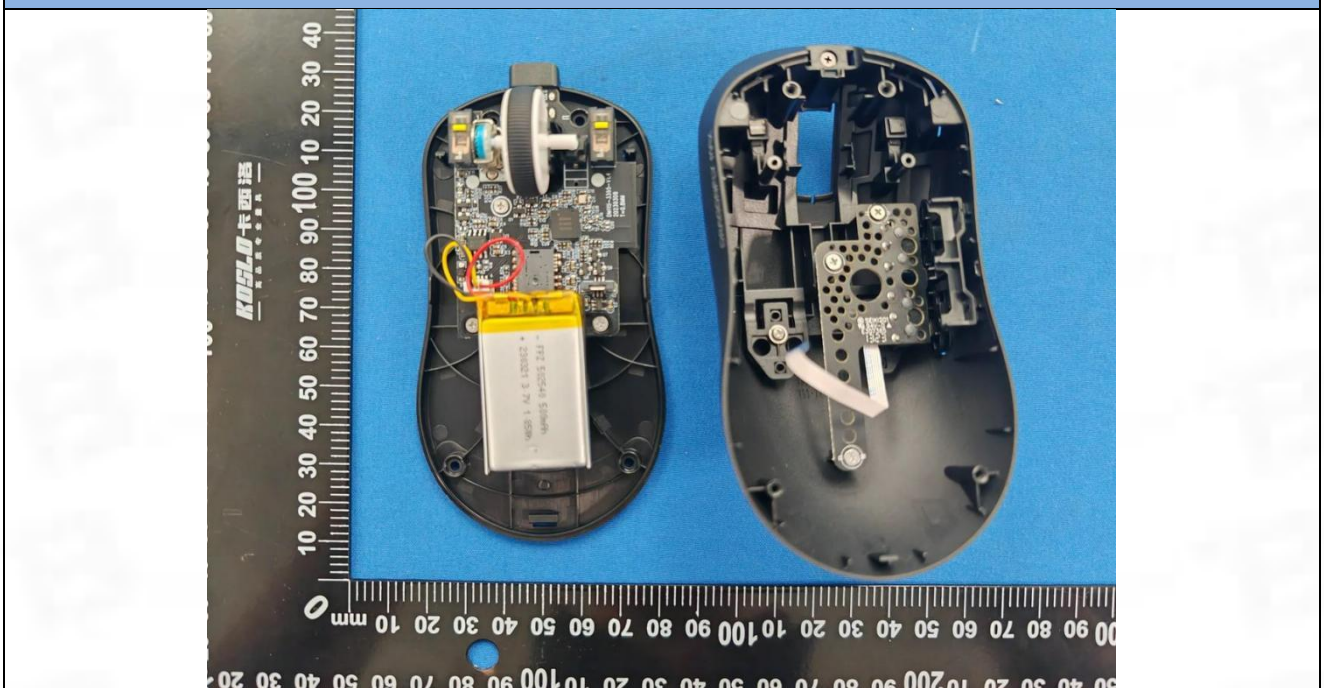


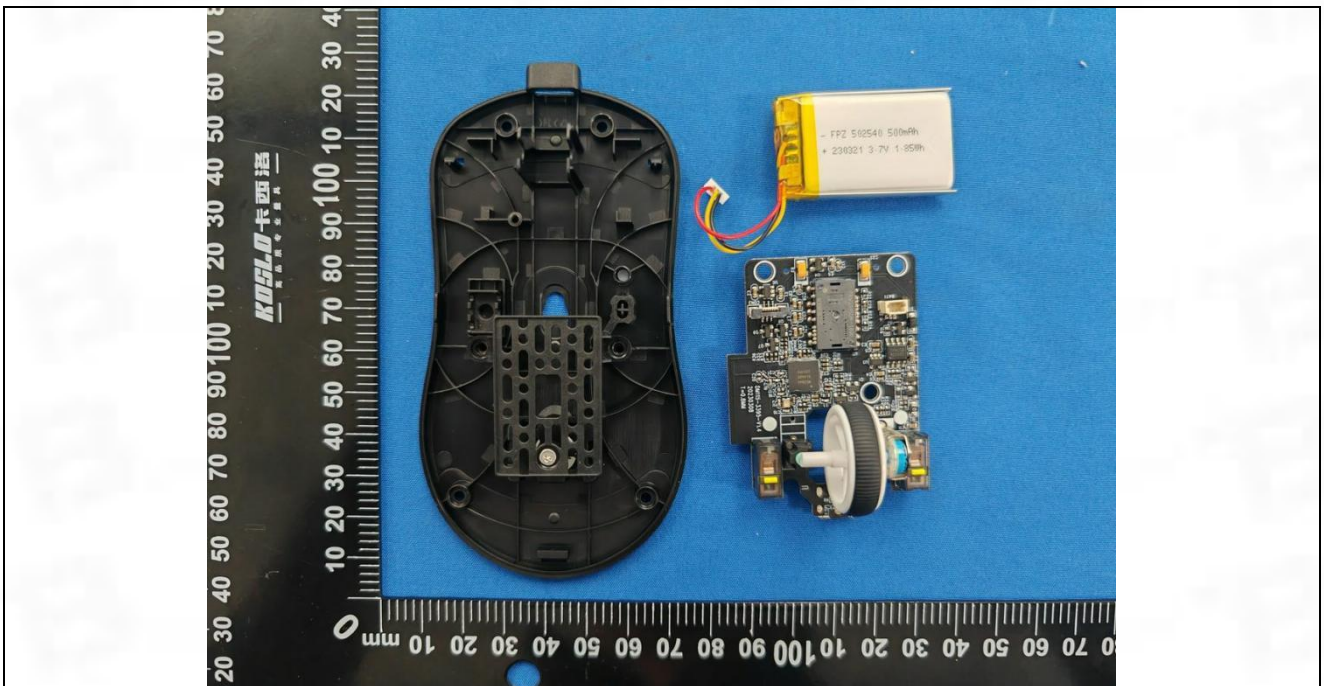
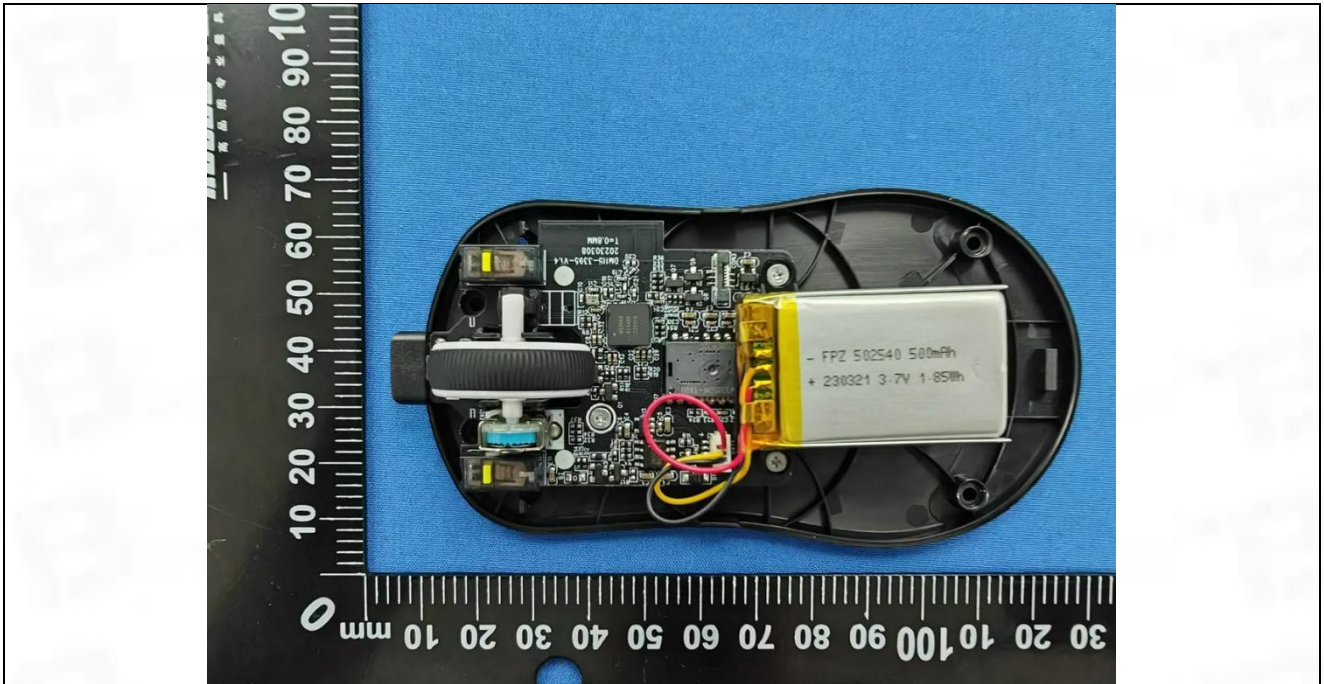


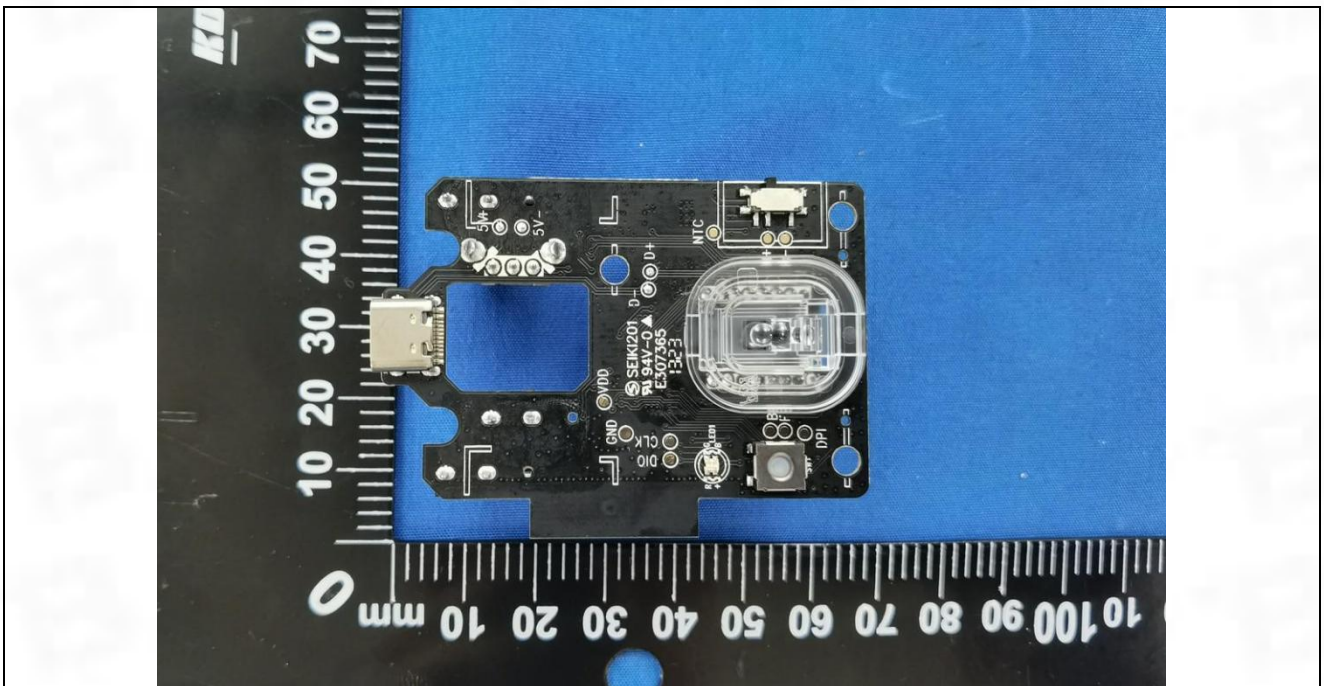
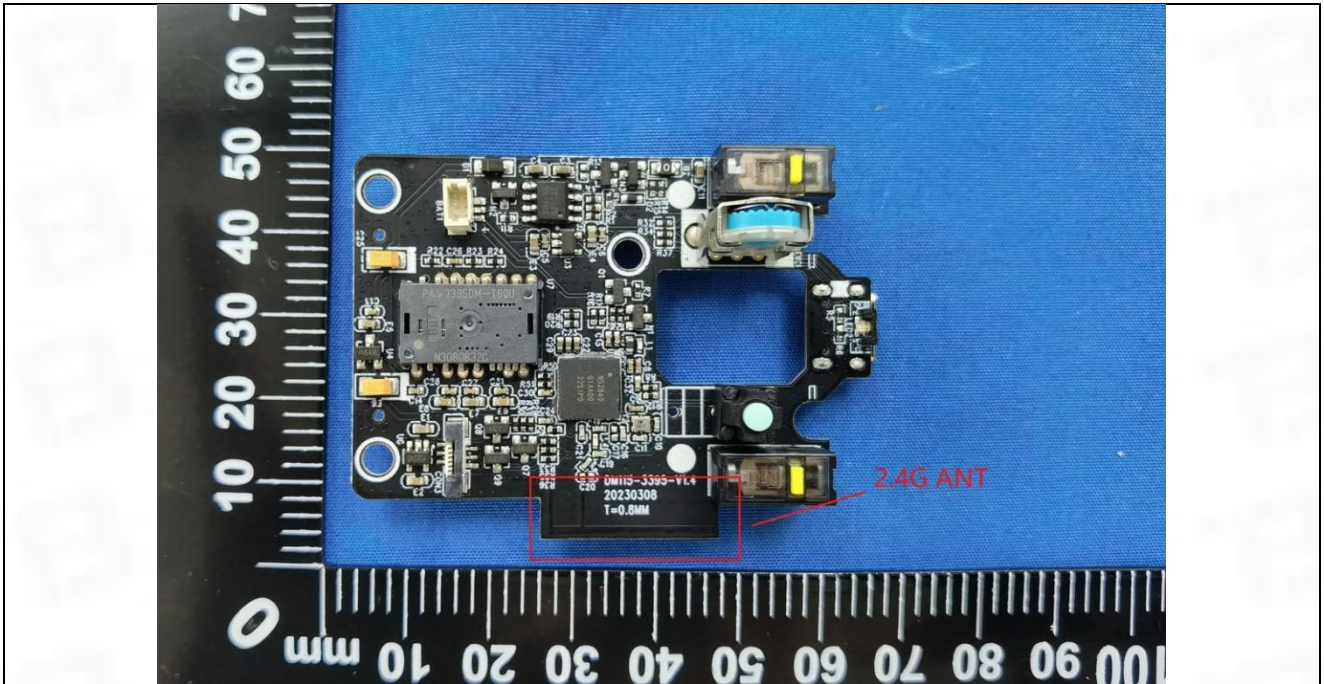


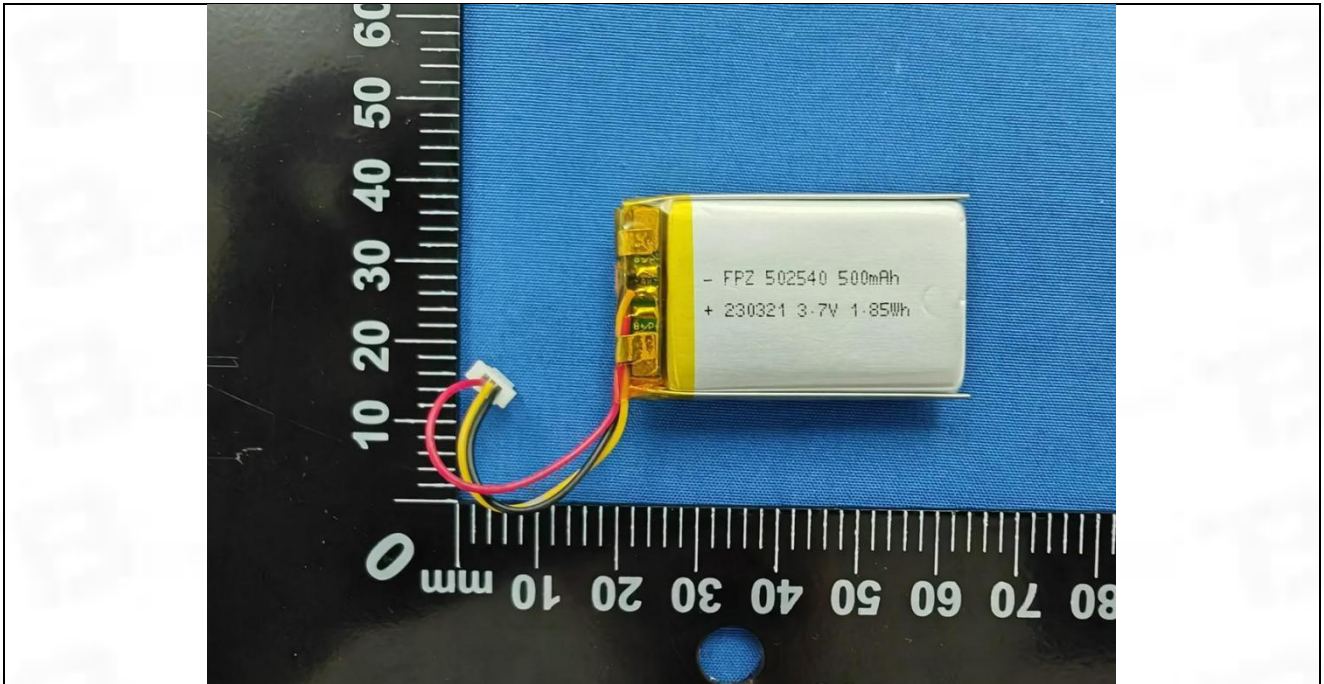


Internal









Appendix

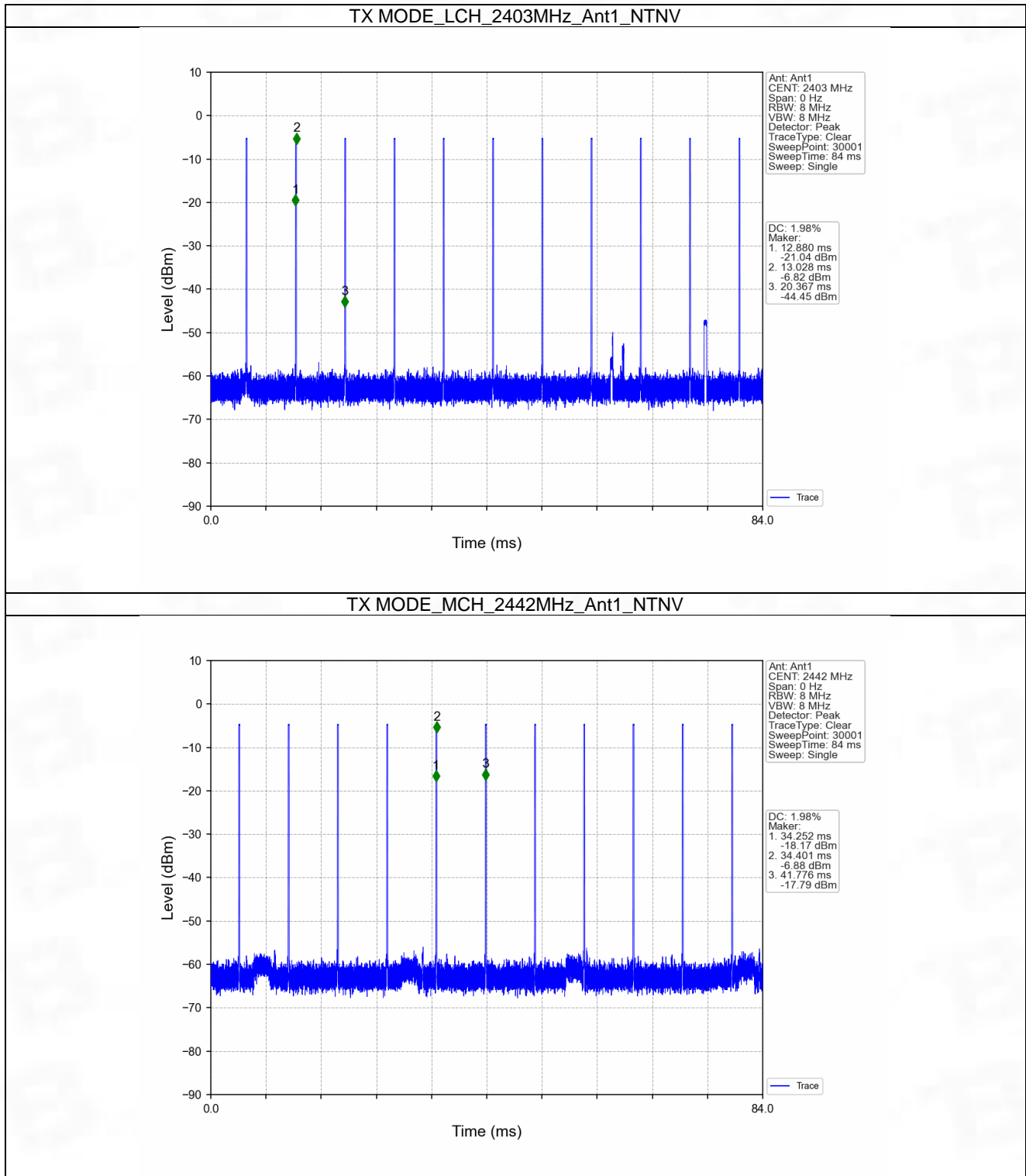
1. Duty Cycle

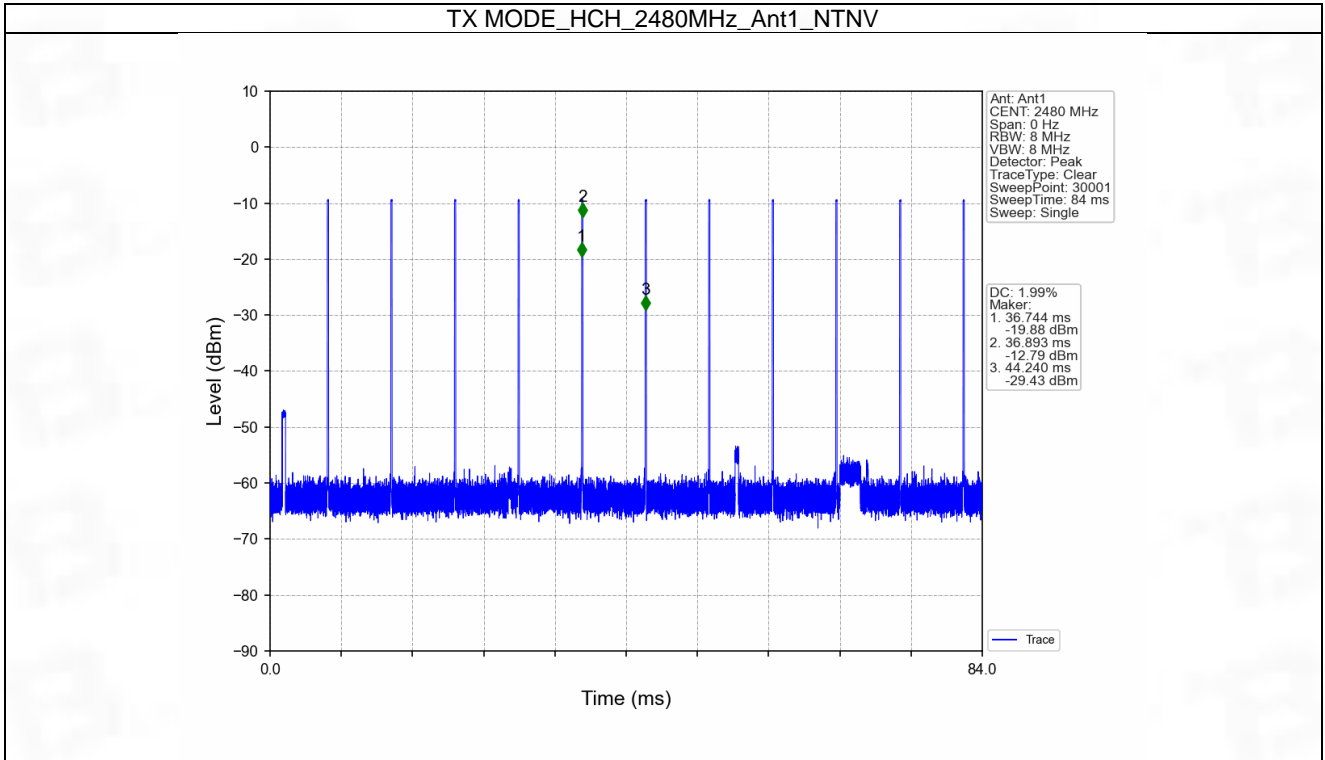
1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
TX MODE	SISO	2403	0.148	7.487	1.98	17.04	0.04
		2442	0.149	7.524	1.98	17.03	0.07
		2480	0.149	7.496	1.99	17.02	0.04

1.1.2 Test Graph





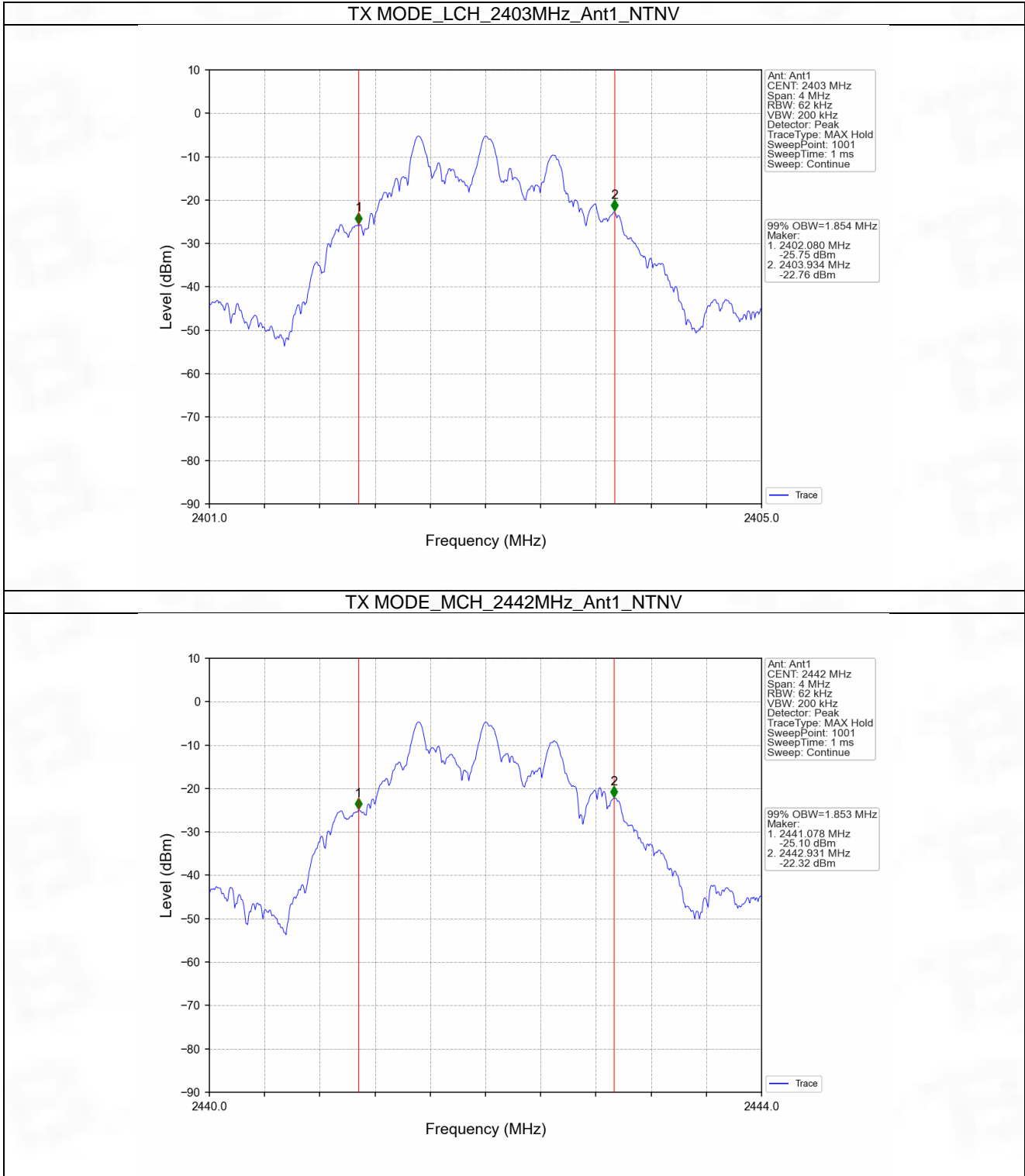
2. Bandwidth

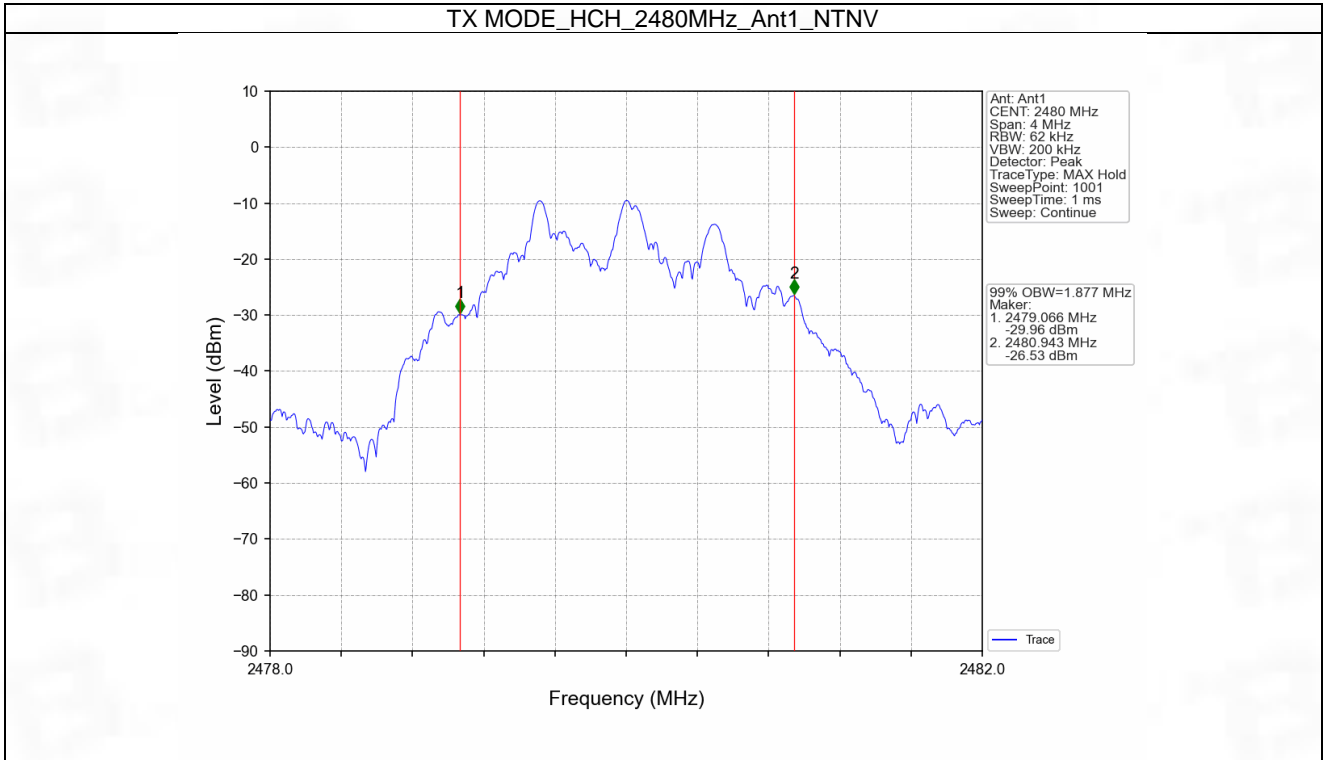
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
TX MODE	SISO	2403	1	1.854	Pass
		2442	1	1.853	Pass
		2480	1	1.877	Pass

2.1.2 Test Graph



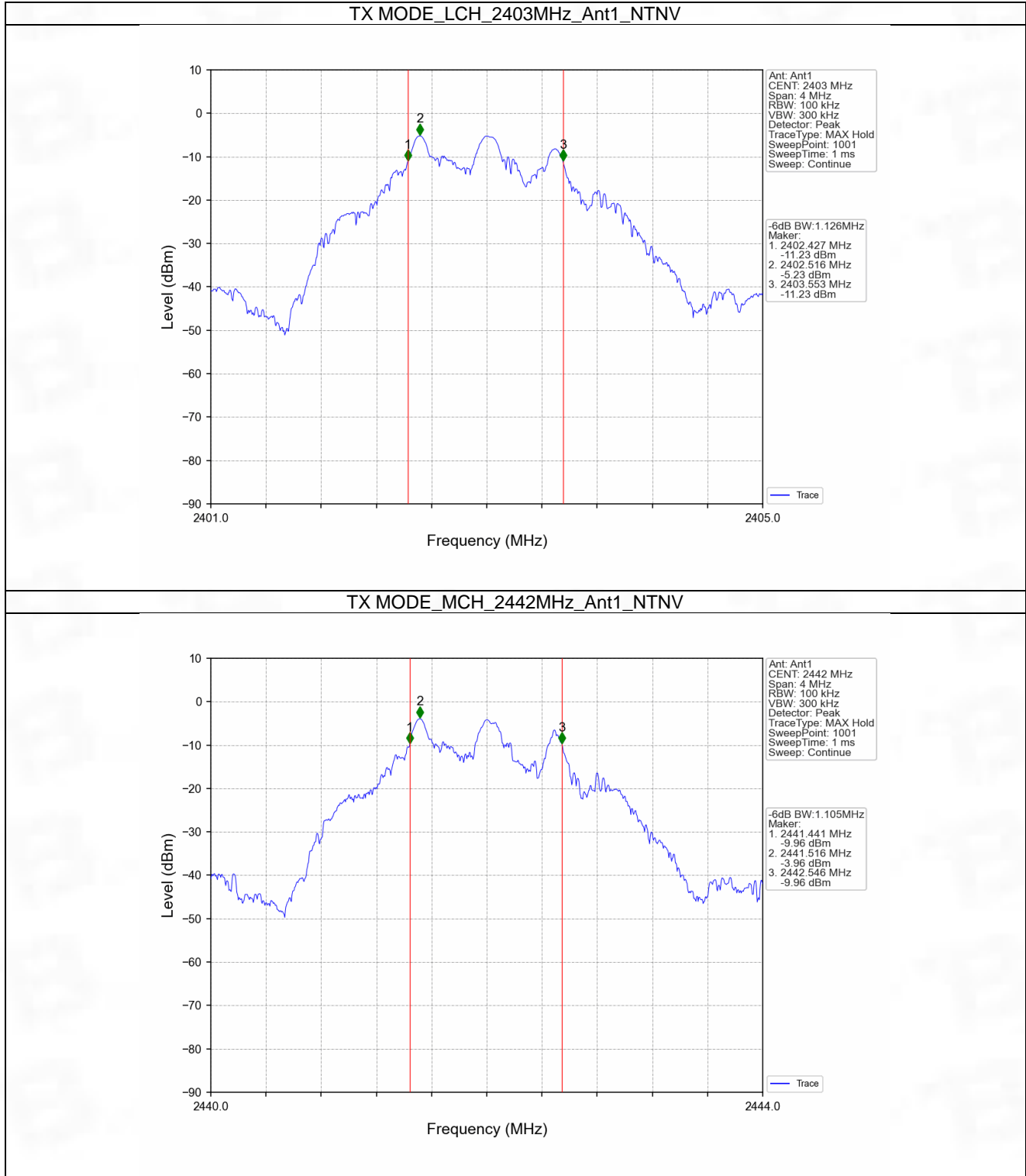


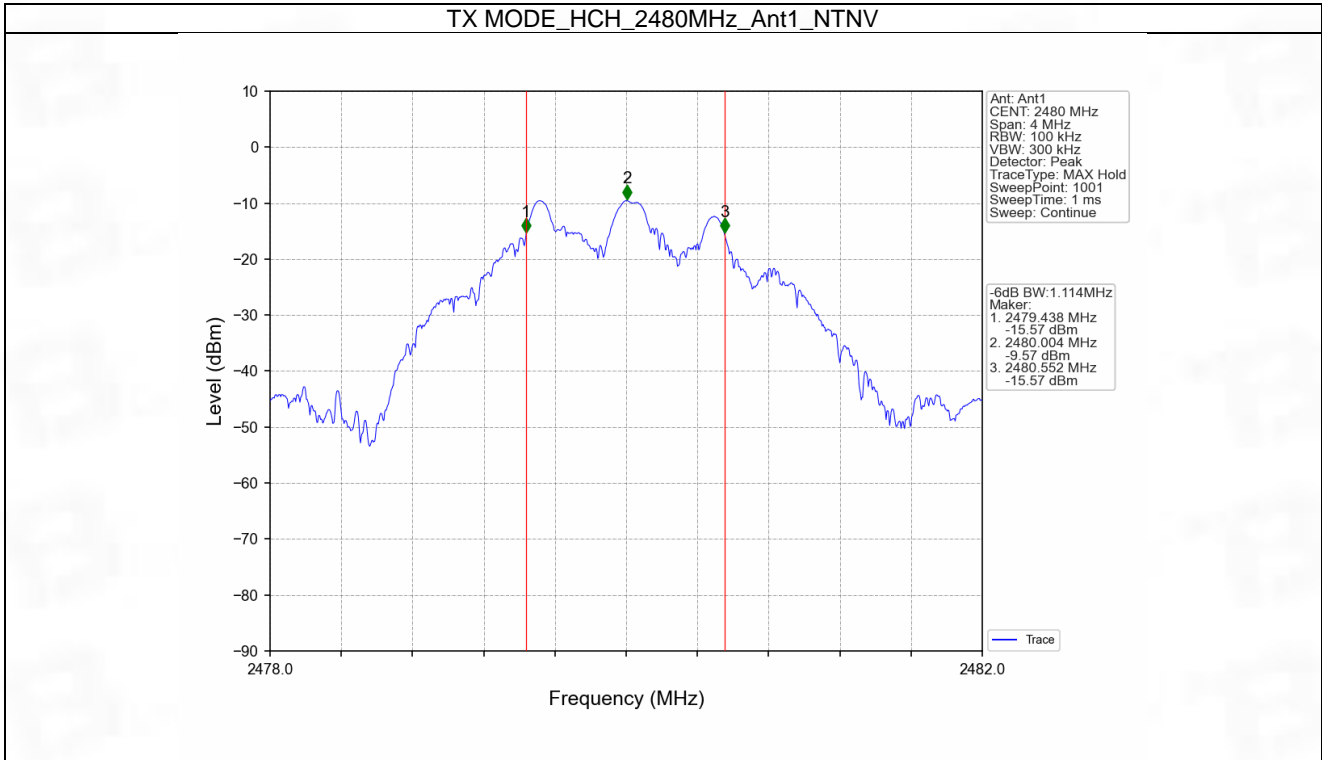
2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
TX MODE	SISO	2403	1	1.126	≥ 0.5	Pass
		2442	1	1.105	≥ 0.5	Pass
		2480	1	1.114	≥ 0.5	Pass

2.2.2 Test Graph





3. Maximum Conducted Output Power

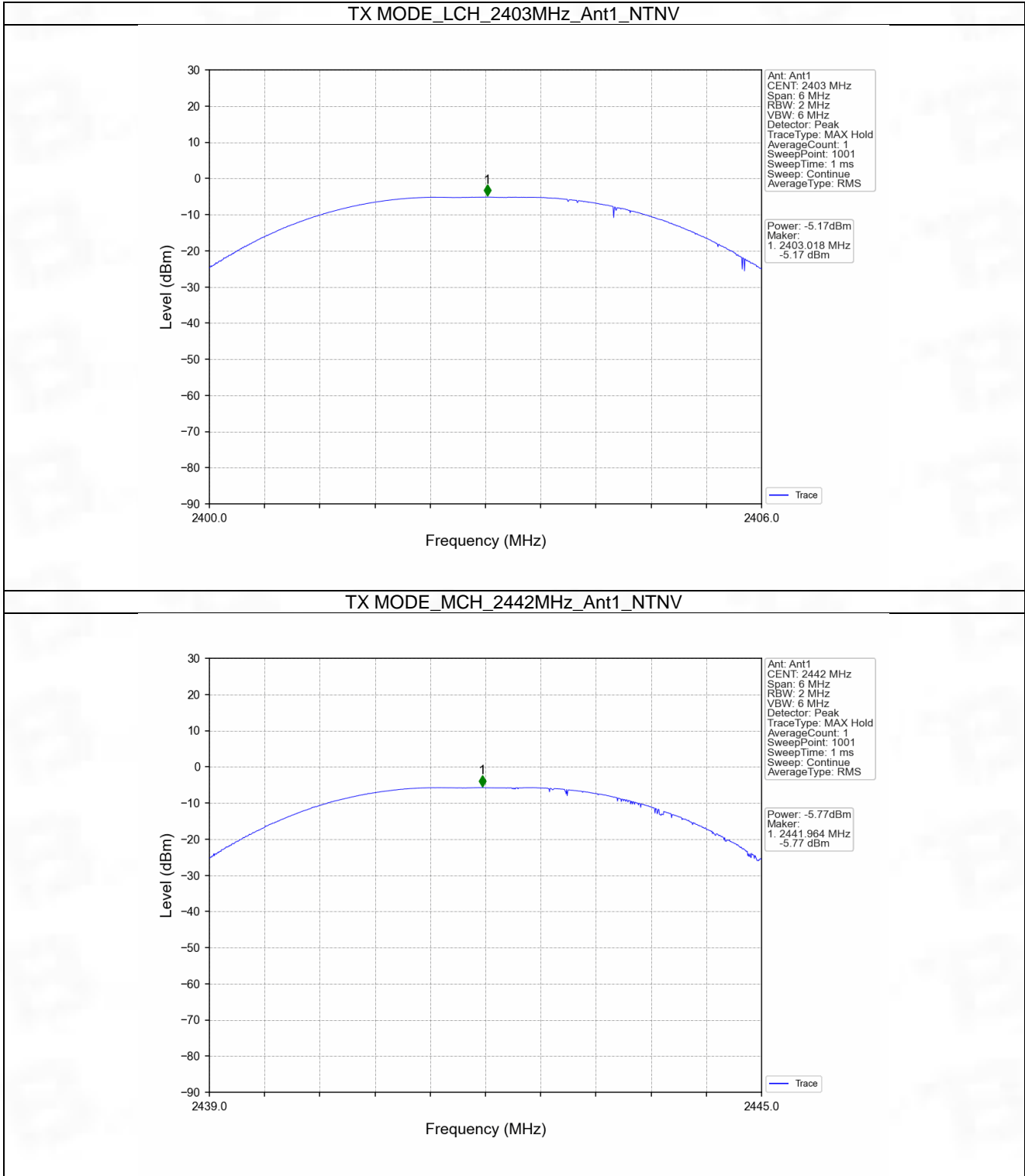
3.1 Power

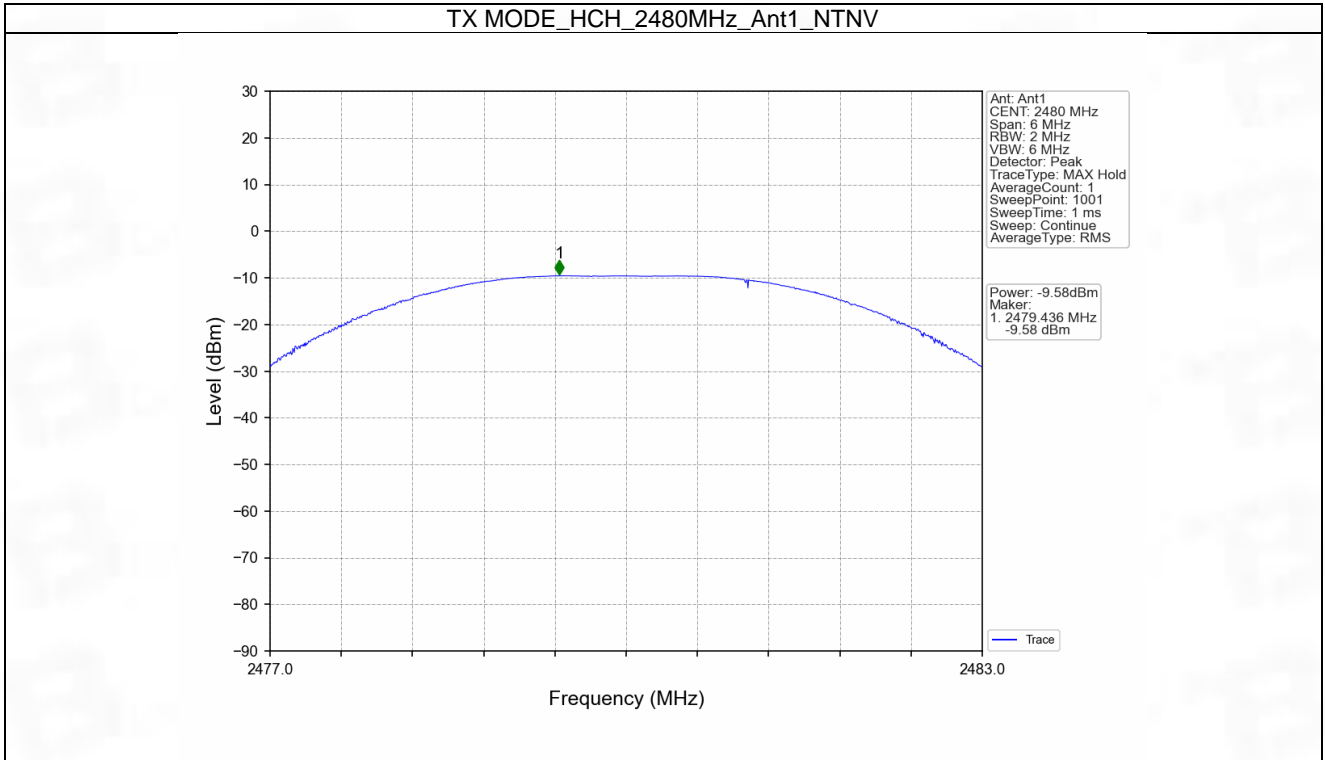
3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
TX MODE	SISO	2403	-5.17	<=30	Pass
		2442	-5.77	<=30	Pass
		2480	-9.58	<=30	Pass

Note1: Antenna Gain: Ant1: 0.95dBi;

3.1.2 Test Graph





4. Maximum Power Spectral Density

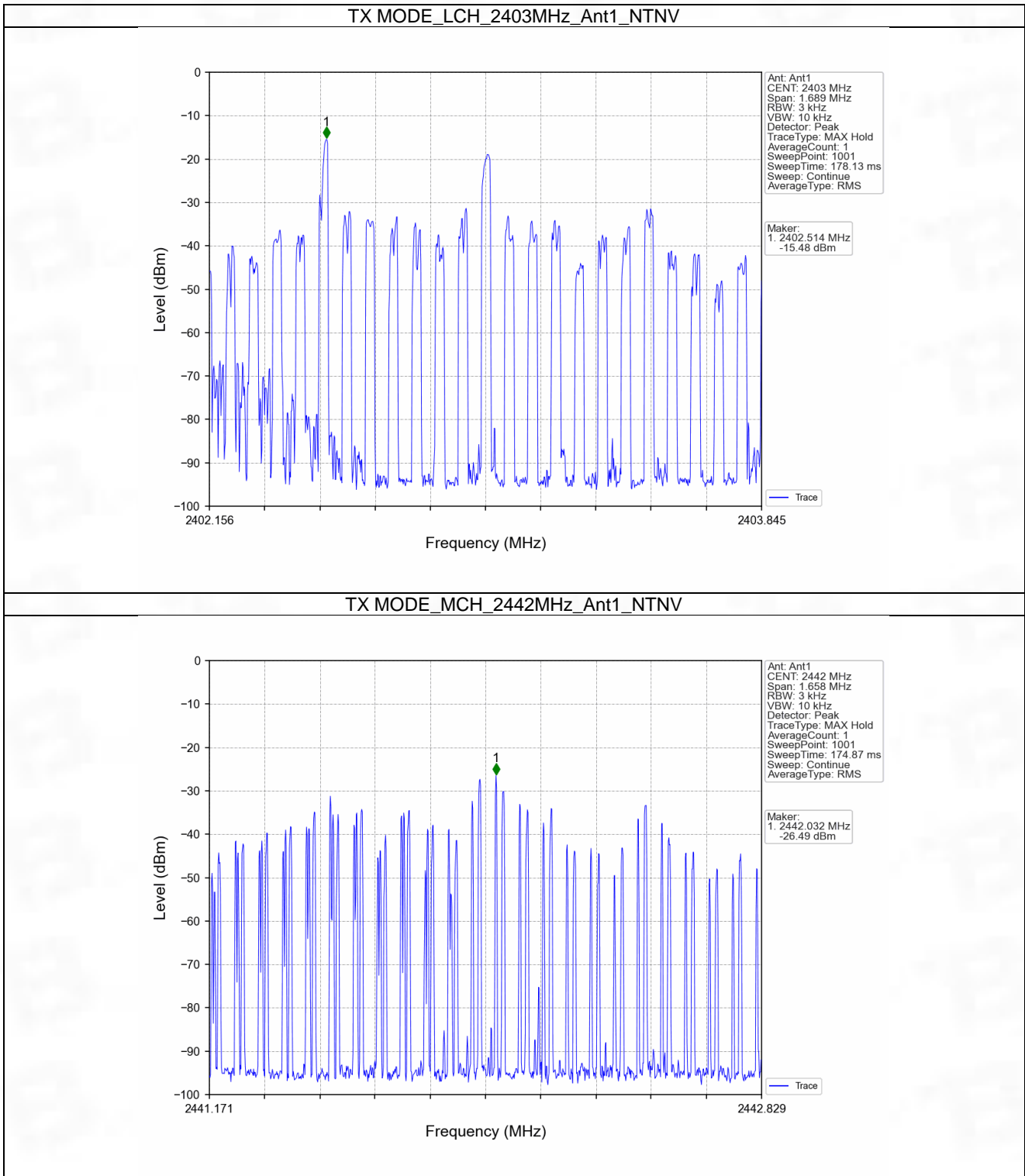
4.1 PSD

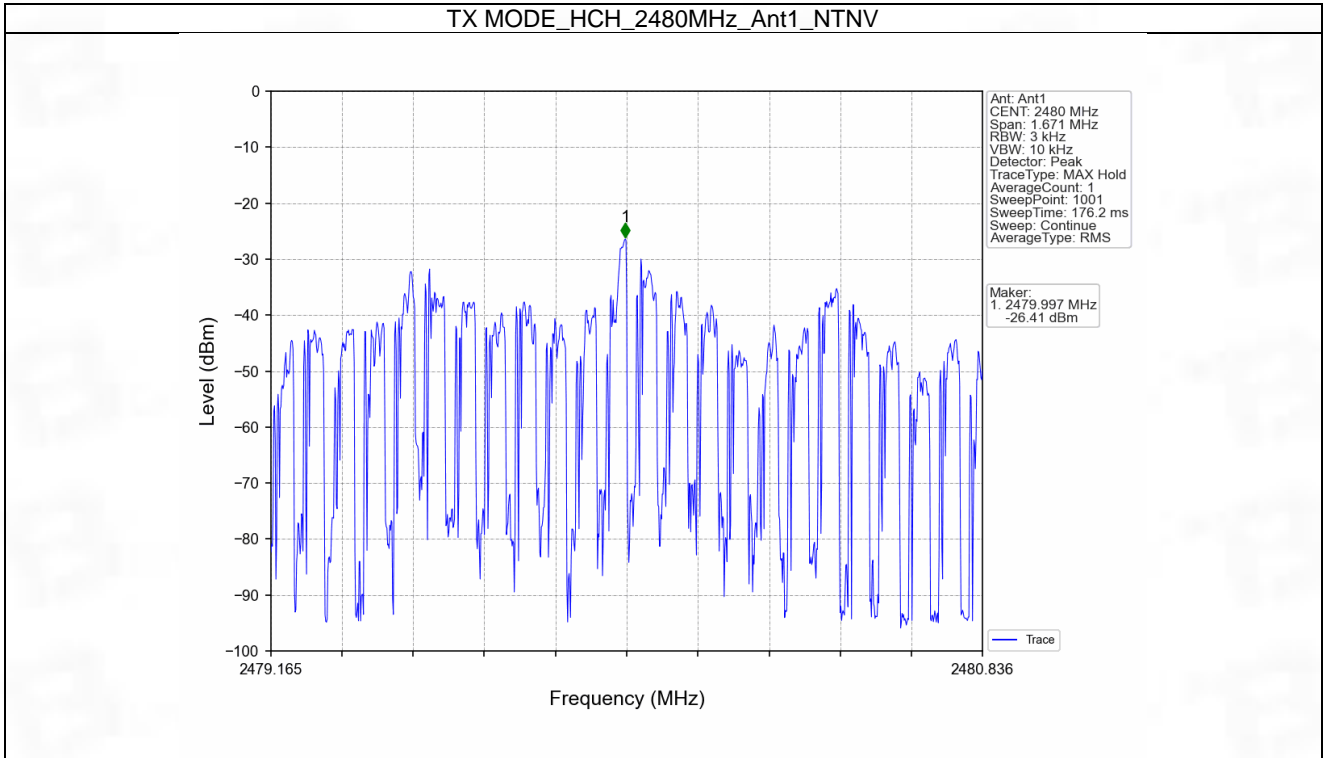
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
TX MODE	SISO	2403	-15.48	<=8	Pass
		2442	-26.49	<=8	Pass
		2480	-26.41	<=8	Pass

Note1: Antenna Gain: Ant1: 0.95dBi;

4.1.2 Test Graph





5. Unwanted Emissions In Non-restricted Frequency Bands

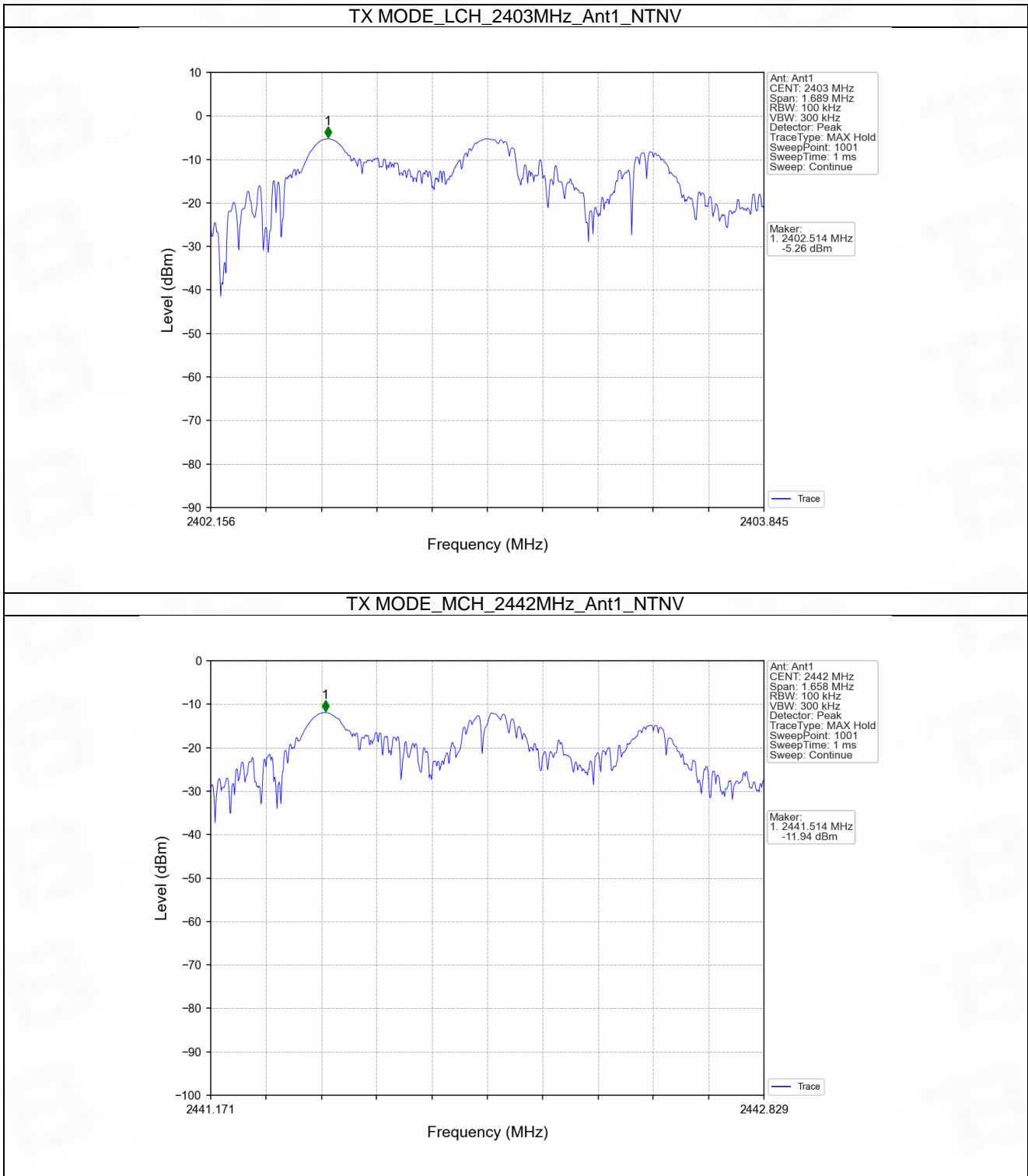
5.1 Ref

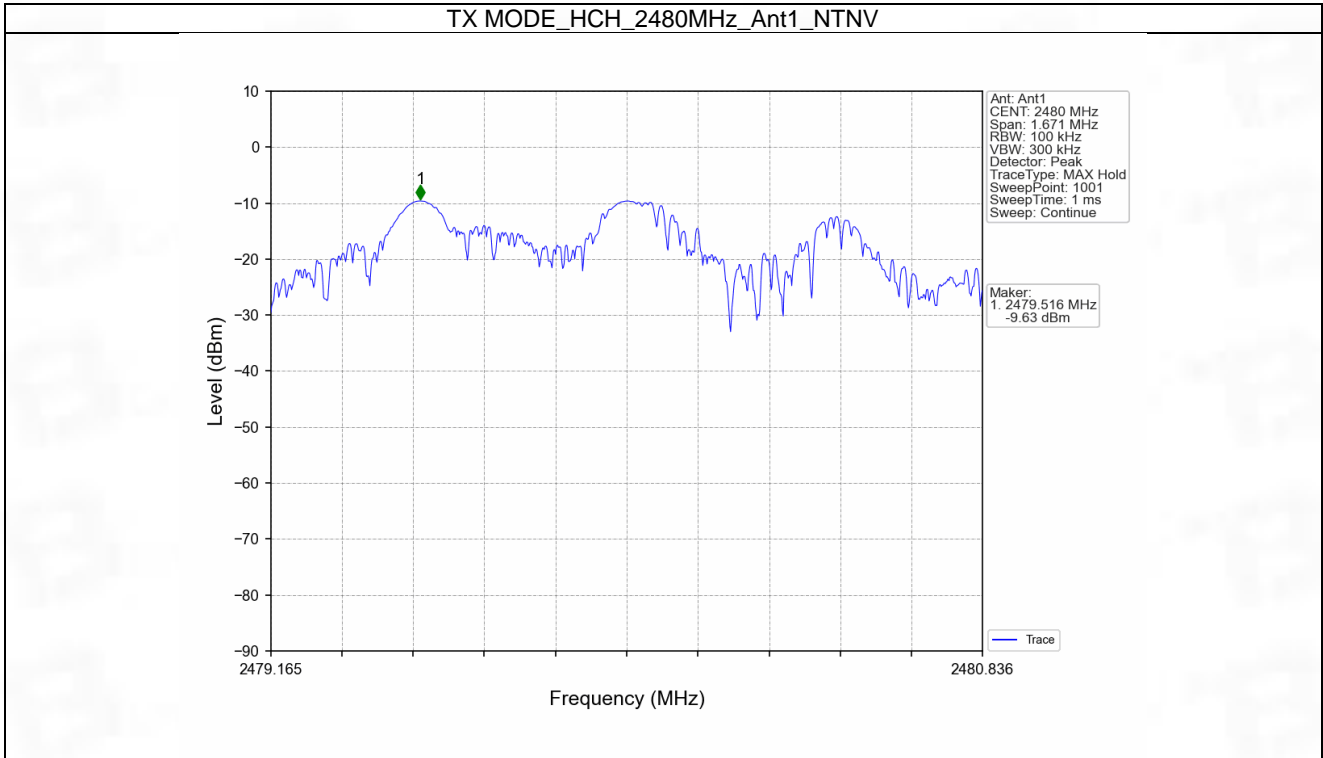
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
TX MODE	SISO	2403	1	-5.26
		2442	1	-11.94
		2480	1	-9.63

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

5.1.2 Test Graph





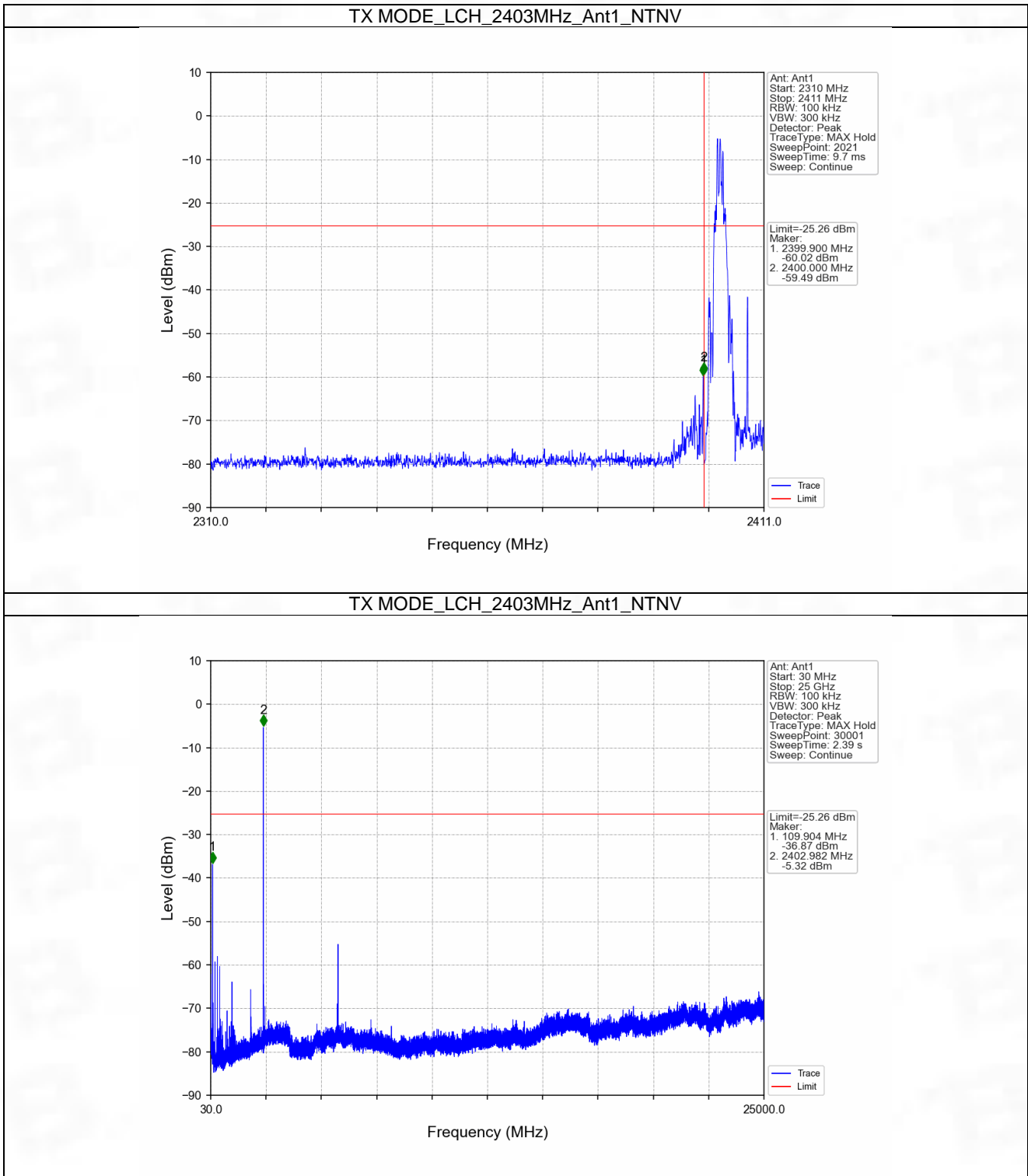
5.2 CSE

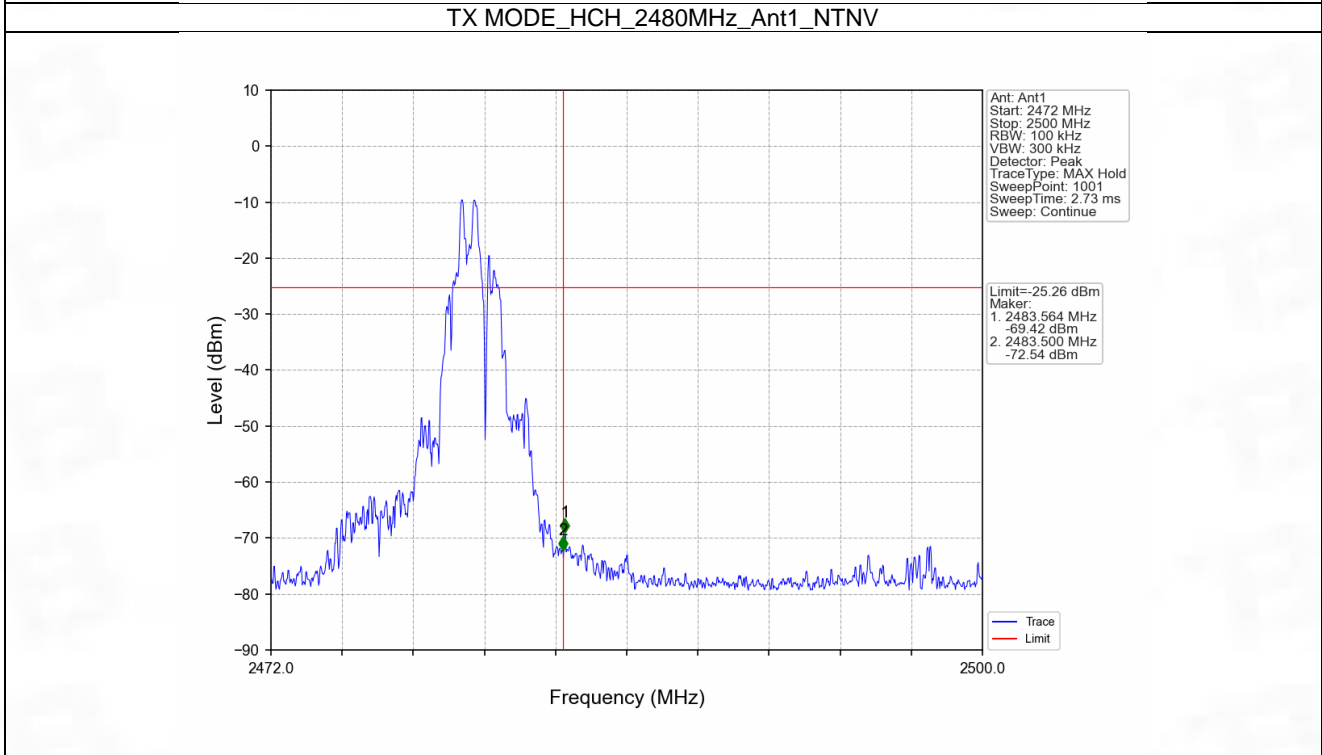
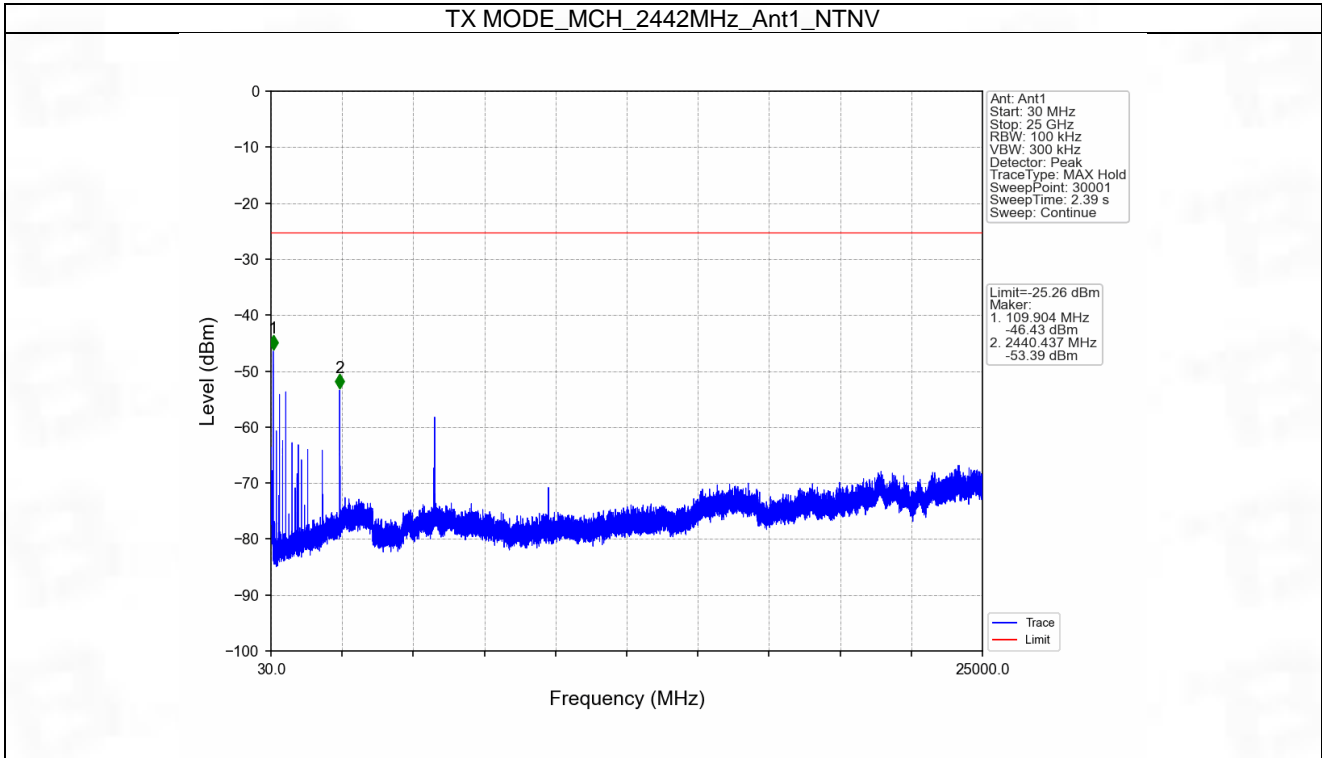
5.2.1 Test Result

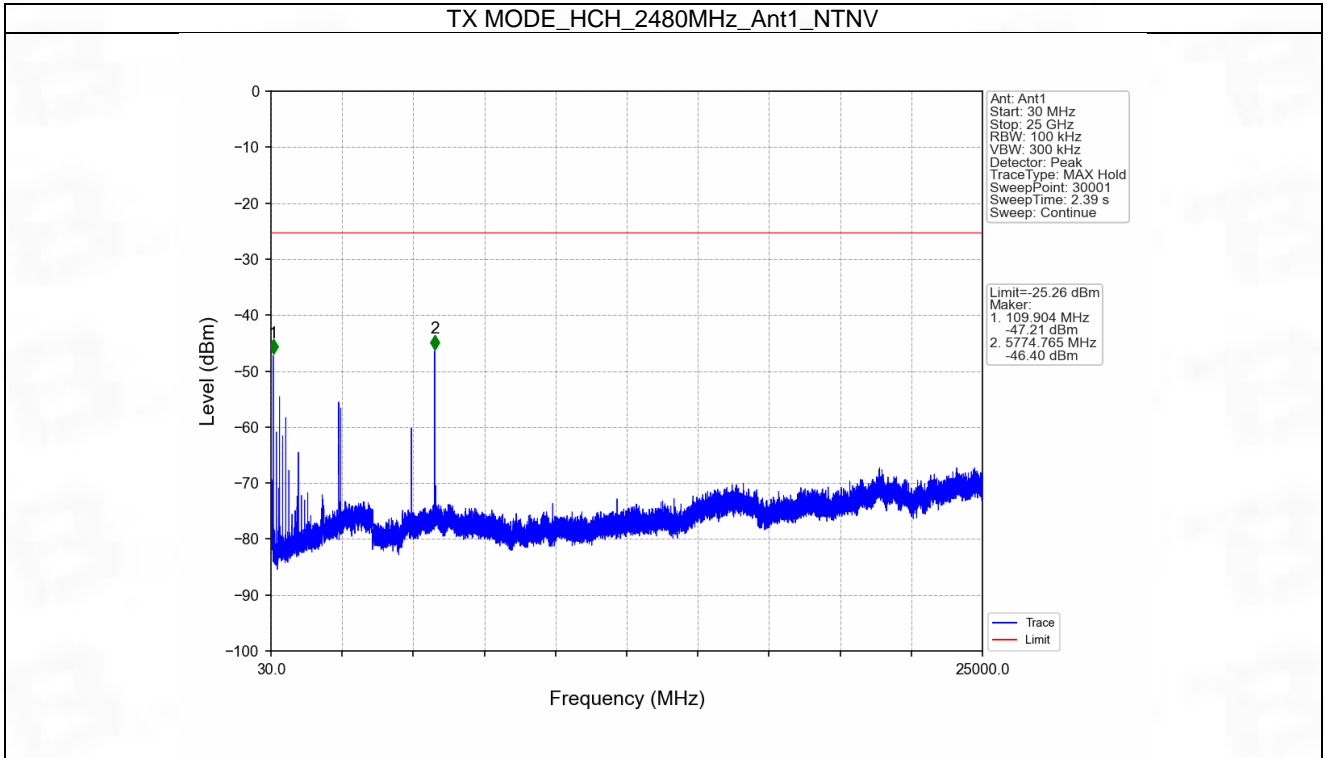
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
TX MODE	SISO	2403	1	-5.26	-25.26	Pass
		2442	1	-5.26	-25.26	Pass
		2480	1	-5.26	-25.26	Pass

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

5.2.2 Test Graph







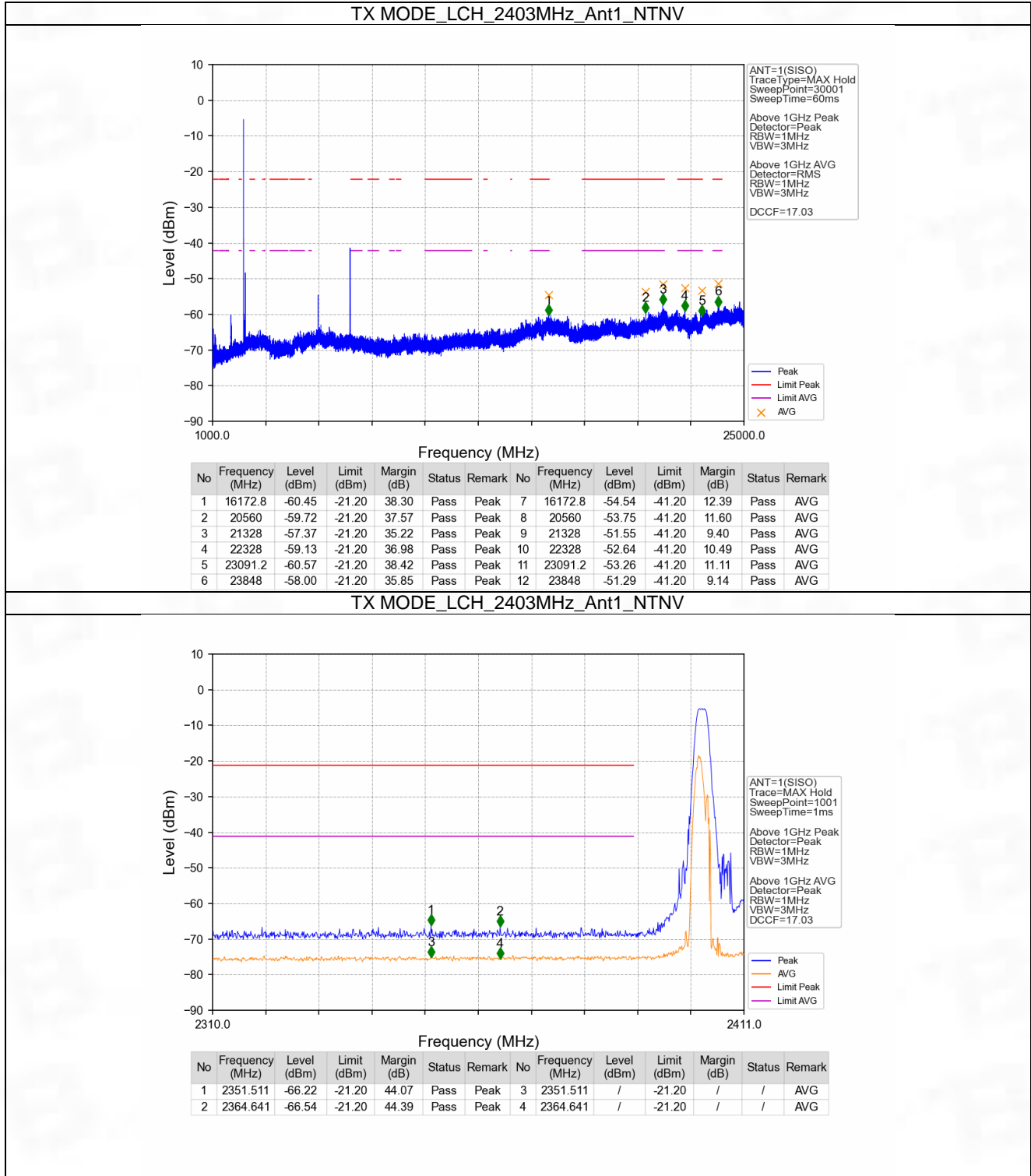
6. Unwanted Emissions In Restricted Frequency Bands

6.1 RSE

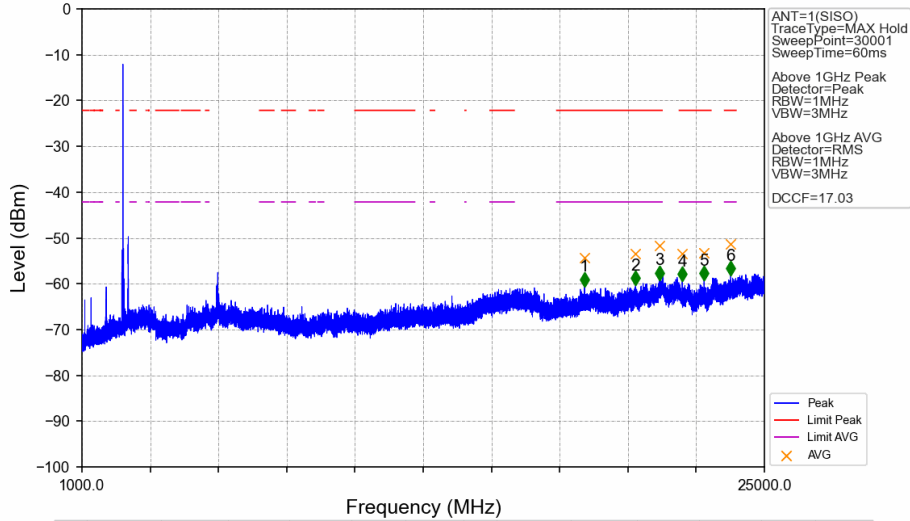
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
TX MODE	SISO	2403	1	Refer To Test Graph	Pass	
		2442	1	Refer To Test Graph	Pass	
		2480	1	Refer To Test Graph	Pass	

6.1.2 Test Graph

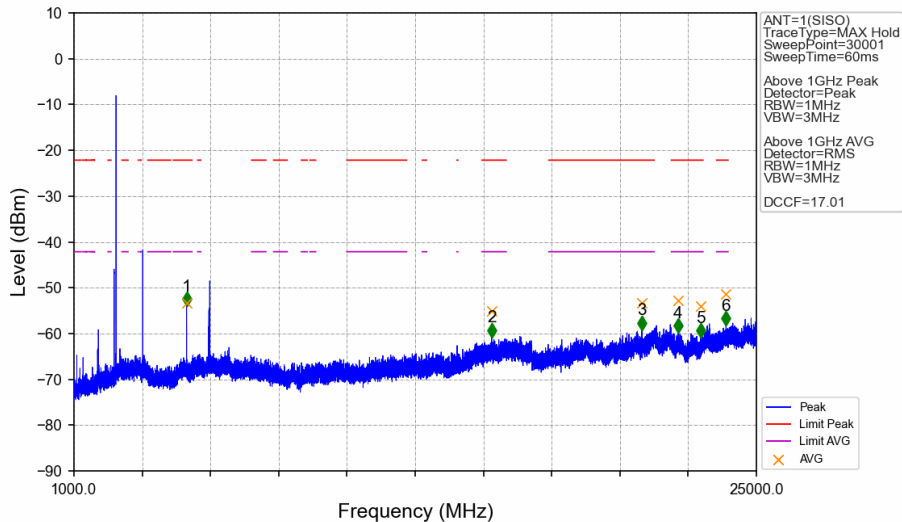


TX MODE_MCH_2442MHz_Ant1_NTNV

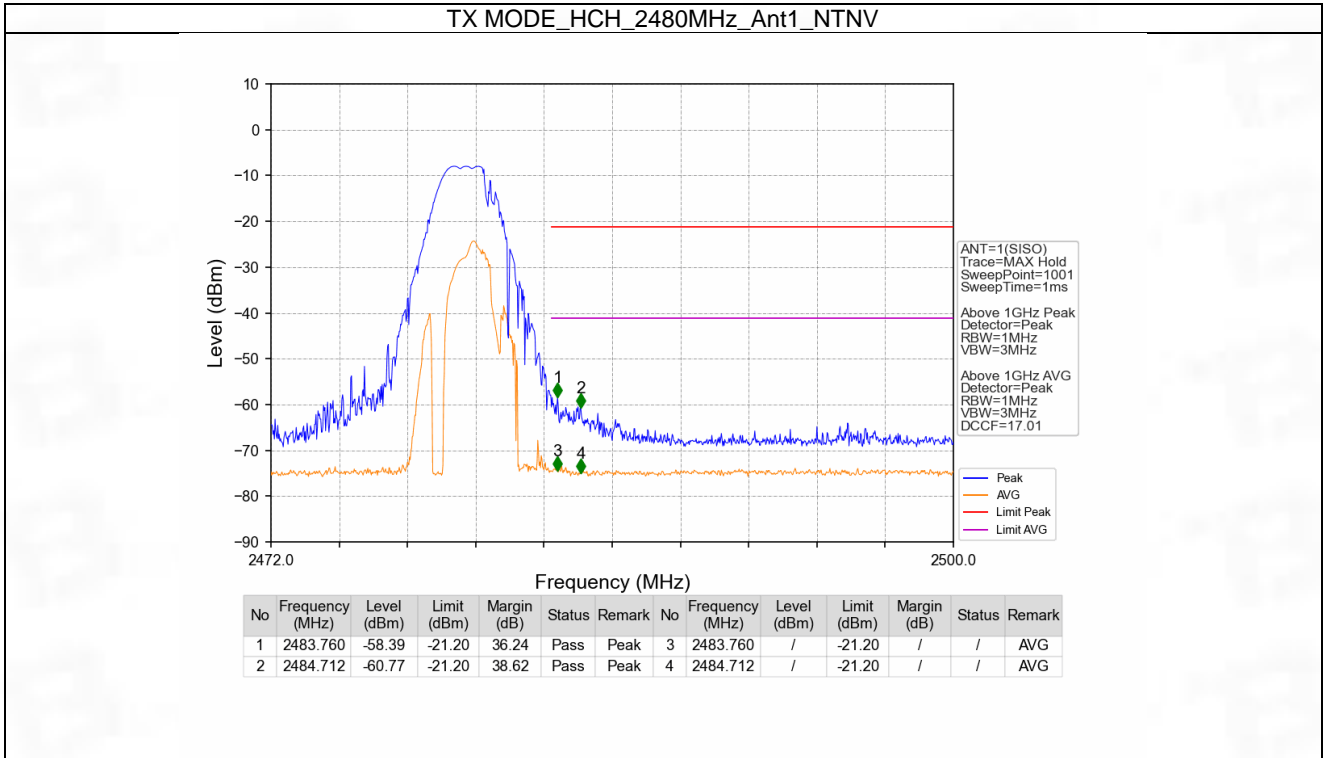


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	18675.2	-60.59	-21.20	38.44	Pass	Peak	7	18675.2	-54.39	-41.20	12.24	Pass	AVG
2	20469.6	-60.26	-21.20	38.11	Pass	Peak	8	20469.6	-53.39	-41.20	11.24	Pass	AVG
3	21312.8	-59.19	-21.20	37.04	Pass	Peak	9	21312.8	-51.64	-41.20	9.49	Pass	AVG
4	22109.6	-59.50	-21.20	37.35	Pass	Peak	10	22109.6	-53.40	-41.20	11.24	Pass	AVG
5	22878.4	-59.20	-21.20	37.05	Pass	Peak	11	22878.4	-53.35	-41.20	11.20	Pass	AVG
6	23813.6	-58.20	-21.20	36.05	Pass	Peak	12	23813.6	-51.28	-41.20	9.13	Pass	AVG

TX MODE_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4959.2	-53.99	-21.20	31.84	Pass	Peak	7	4959.2	-53.35	-41.20	11.20	Pass	AVG
2	15689.6	-60.84	-21.20	38.69	Pass	Peak	8	15689.6	-55.12	-41.20	12.97	Pass	AVG
3	20970.4	-59.22	-21.20	37.07	Pass	Peak	9	20970.4	-53.27	-41.20	11.12	Pass	AVG
4	22246.4	-59.86	-21.20	37.71	Pass	Peak	10	22246.4	-52.86	-41.20	10.71	Pass	AVG
5	23035.2	-60.94	-21.20	38.79	Pass	Peak	11	23035.2	-54.09	-41.20	11.94	Pass	AVG
6	23931.2	-58.23	-21.20	36.08	Pass	Peak	12	23931.2	-51.37	-41.20	9.22	Pass	AVG





7. Form731

7.1 Form731

7.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2403	2480	0.0003	-5.17



Test Report Number: BTF230508R00401



BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street,
Bao'an District, Shenzhen, China

www.btf-lab.com

-- END OF REPORT --