

RF TEST REPORT

FCC ID: 2AMKE-BE31

Product Name: Black Shark JoyBuds Studio

Brand Name: BLACK SHARK

Model Name: BE31

Report No.: N26070108610E

Prepared for

Shenzhen MYGT Co., Ltd

D3. Tongfuyu Industrial Area, Street Community of Shajing Town, BaoAn, Shenzhen, China

Prepared by

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1 Revision History

Revision History			
Report No.	Version	Description	Issued Date
N26070108610E	Rev.01	Initial issue of report	Aug. 17, 2026

2 Test Summary

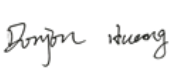
FCC Rule	Test Item	Method	Tested By	Result
47 CFR 15.203	Antenna requirement	---	Leo Wang	Pass
47 CFR 15.207(a)	Conducted Emission at AC power line	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2	Leo Wang	Pass
47 CFR 15.247(a)(2)	6dB Bandwidth	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.8	Leo Wang	Pass
47 CFR 15.247(b)(3)	Maximum Conducted Output Power	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.9.1	Leo Wang	Pass
47 CFR 15.247(e)	Power Spectral Density	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10	Leo Wang	Pass
47 CFR 15.247(d)	Emissions in non-restricted frequency bands	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.11	Leo Wang	Pass
47 CFR 15.247(d), 15.209, 15.205	Band edge emissions (Radiated)	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10	Harry Huang	Pass
47 CFR 15.247(d), 15.209, 15.205	Emissions in frequency bands (below 1GHz)	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4	Harry Huang	Pass
47 CFR 15.247(d), 15.209, 15.205	Emissions in frequency bands (above 1GHz)	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4	Harry Huang	Pass

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.

3 Test Result Certification

CLIENT INFORMATION	
Applicant:	Shenzhen MYGT Co., Ltd
Address of Applicant:	D3. Tongfuyu Industrial Area, Street Community of Shajing Town, BaoAn, Shenzhen, China
Manufacturer:	Shenzhen MYGT Co., Ltd
Address of Manufacturer:	D3. Tongfuyu Industrial Area, Street Community of Shajing Town, BaoAn, Shenzhen, China
EUT INFORMATION	
Product Name:	Black Shark JoyBuds Studio
Brand Name:	BLACK SHARK
Model Name:	BE31
Sample Received Date:	Jul. 03, 2026
Sample Number:	S2607020211-1#
Applicable Standards	47 CFR Part 15.247
Measurement Procedures	ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024
This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full without the written approval of NTEK. This document may be altered or revised only by NTEK personnel, and revisions shall be recorded in the revision history of the document.	
Date of Test:	Jul. 07, 2026 to Jul. 14, 2026
Issue Date:	Aug. 17, 2026

Prepared By:		Reviewed by:		Approved By:	
	Donjon Huang (Project Engineer)		Aaron Cheng (Supervisor)		Alex Li (Manager)

4 Facilities and Accreditations

4.1 Facilities

All measurement facilities used to collect the measurement data are located at

Building 1/2/11/12, No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 16-1-4.

4.2 Laboratory Accreditations And Listings

Site Description	
CNAS-Lab.	: Registration Code L5516
A2LA-Lab.	: Certificate Number 4298.01
FCC-Accredited	: Test Firms Registration Number: 463705 Designation Number: CN1184
ISED Wireless Device Testing Laboratories	: The ISED Company Number is 9270A CAB identifier:CN0074

4.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where the expanded uncertainty U is obtained by multiplying the standard uncertainty by a coverage factor $k=2$, corresponding to a confidence level of approximately 95%.

Item	Uncertainty
RF Power, conducted	1.34dB
Power Spectral Density, conducted	0.91dB
Radiated Spurious Emissions(1GHz ~ 18GHz)	4.9dB
Radiated Spurious Emissions(9kHz ~ 30MHz)	5.26dB
Radiated Spurious Emissions(30MHz ~ 1GHz)	5.1dB
Radiated Spurious Emissions(18GHz ~ 40GHz)	5.76dB

5 General Description of EUT

5.1 Details of E.U.T.

Product Name	Black Shark JoyBuds Studio
Brand Name	BLACK SHARK
Model Name	BE31

Note 1: The above information was declared by manufacturer.

5.2 EUT Feature And Specification

Operation Frequency	2402MHz to 2480MHz
Modulation	GFSK
Number of Channels	40
Antenna Type	Ceramic antenna
Antenna Gain	2.01dBi
Antenna system	☒ SISO; ☐ MIMO;
Power Supply	☒ DC supply: DC 3.7V ☐ Adapter supply:
Battery	DC 3.7V, 1000mAh
I/O Ports	Refer to user manual
Hardware Version	JD-BE31-BT8931-V1.3
Firmware version:	V0.2.3
Software Version	V0.2.3

Frequency and Channel list:

Channel	Frequency(MHz)
00	2402
01	2404
.....	
.....	
38	2478
39	2480

Note 1: $f_c = 2402\text{MHz} + k \times 2\text{MHz}$ $k=0$ to 39

Note 2: The above information is declared by the manufacturer, NTEK is not responsible for the accuracy of the above parameters.

Note 3: The antenna gain provided by the customer is used to calculate the EIRP results.

5.3 Deviation from Standards

None

5.4 Abnormalities from Standard Condition

None

6 Description of Test Modes and Operation Configuration of EUT

6.1 Description of Test Modes

- The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.
- AC power line Conducted Emission was tested under maximum output power.
- The measurements are performed at the highest, middle, lowest available channels.
- The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

The following summary table is showing all test modes to demonstrate in compliance with the standard

No	Title	Description
TM1	TX mode	Keep the EUT in continuously transmitting mode with GFSK modulation at lowest, middle and highest channel.

6.2 Operation Configuration of EUT

	Normal Test Conditions	Extreme Test Conditions
Temperature	25 °C	LTNV:0 °C HTNV:50 °C
Relative Humidity	20% - 75%	N/A
Supply Voltage	3.7 VDC	N/A

Note: The HT 50°C and LT 0°C was declared by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.

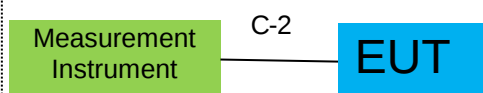
7 Setup Of Equipment Under Test

7.1 Block Diagram Configuration Of Test System

For AC Conducted Emission Mode

For Radiated Test Cases

For Conducted Test Cases



Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

7.2 Support Equipment

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	Peripherals
Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power Cable	YES	NO	1.0m
C-2	RF Cable	YES	NO	0.1m

8 Equipment List

Conducted Emission at AC power line					
Item	Name of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Low Frequency Cable	/	R-03	/	2027/4/24
2	50Ω Coaxial Switch	Anritsu	MP59B	6200983704	2027/4/25
3	Single Phase LISN	R&S	ENV216	101313	2027/4/7
4	Single Phase LISN	R&S	ENV216	101490	2027/4/7
5	Single Phase LISN	R&S	ENV216	102849	2027/4/7
6	Single Phase LISN	R&S	ENV216	102827	2027/4/7
7	Three-Phase LISN	SCHWARZBECK	NNLK 8129	8129245	2027/4/7
8	EMI Test Receiver	R&S	ESCI	101160	2027/4/7
9	EMI Test Receiver	R&S	ESR7	102679	2027/4/7
10	EMI Test Receiver	R&S	ESPI3	100145	2027/4/7
11	EMI Test Receiver	R&S	ESPI3	101417	2027/6/28
12	DC-AMN LISN	SCHWARZBECK	PVDC 8301	8301-00117	2027/4/7

Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power meter	WCS	SMU-3002-CH4	N/A	2025-09-16	2026-09-15
Power meter	WCS	SMU-3002-CH3	N/A	2025-09-16	2026-09-15
Power meter	WCS	SMU-3002-CH2	N/A	2025-09-16	2026-09-15
Power meter	WCS	SMU-3002-CH1	N/A	2025-09-16	2026-09-15
Spread spectrum device	WCS	WCS-X07/Z800 A	N/A	2025-09-16	2026-09-15
Spread spectrum device	WCS	WCS-X07/Z800 A	N/A	2025-09-16	2026-09-15
Spread spectrum device	WCS	WCS-X07/Z800 A	N/A	2025-09-16	2026-09-15
Spectrum Analyzer	Keysight	N9020B	MY60112710	2025-12-25	2026-12-24
Vector Signal Generator	Keysight	N5182B	MY57301482	2026-04-08	2027-04-07
Analog Signal Generator	Keysight	N5183B	MY57280984	2026-04-27	2027-04-26
USB RF Power Sensor	DARE	RPR3006 W	15I00041SNO8 4	2026-04-08	2027-04-07

Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz) Band edge emissions (Radiated)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Low Noise Amplifier	EMC Solutions	TRLA-180400G50	25102901	2026-04-08	2027-04-07
Wideband Radio Communication Tester	R&S	CMW500	153336	2026-04-08	2027-04-07
Spectrum Analyzer	Keysight	N9020B	MY60112710	2025-12-25	2026-12-24
Semi Anechoic Chamber	N/A	855	N/A	2024-05-20	2027-05-19
Spectrum Analyzer	Keysight	N9020A	MY53280244	2026-04-15	2027-04-14
Broadband Horn Antenna	SCHWARZBECK	BBHA 9120 D	2816	2024-05-18	2027-05-17
AMPLIFIER	Sonoma	310N	186604	2026-04-08	2027-04-07
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2024-05-12	2027-05-11
Active Loop Antenna	SCHWARZBECK	FMZB 1519 B	055	2024-05-17	2027-05-16
Spectrum Analyzer	R&S	FSV40	101417	2026-04-08	2027-04-07
Low Noise Amplifier	B&Z	BZ-P540-550850-452727	16476-11729	2026-04-16	2027-04-15
Pre-Amplifier	EMC	EMC051835SE	980246	2026-04-08	2027-04-07
Universal Radio Communication Tester	R&S	CMU200	117858	2026-04-08	2027-04-07
Universal Radio Communication Tester	R&S	CMU200	105747	2026-04-08	2027-04-07
Broadband Horn Antenna	EM	EM-AH-10180	2011071402	2024-05-12	2027-05-11

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFTest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest
4	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

9 Evaluation Results (Evaluation)

9.1 Antenna requirement

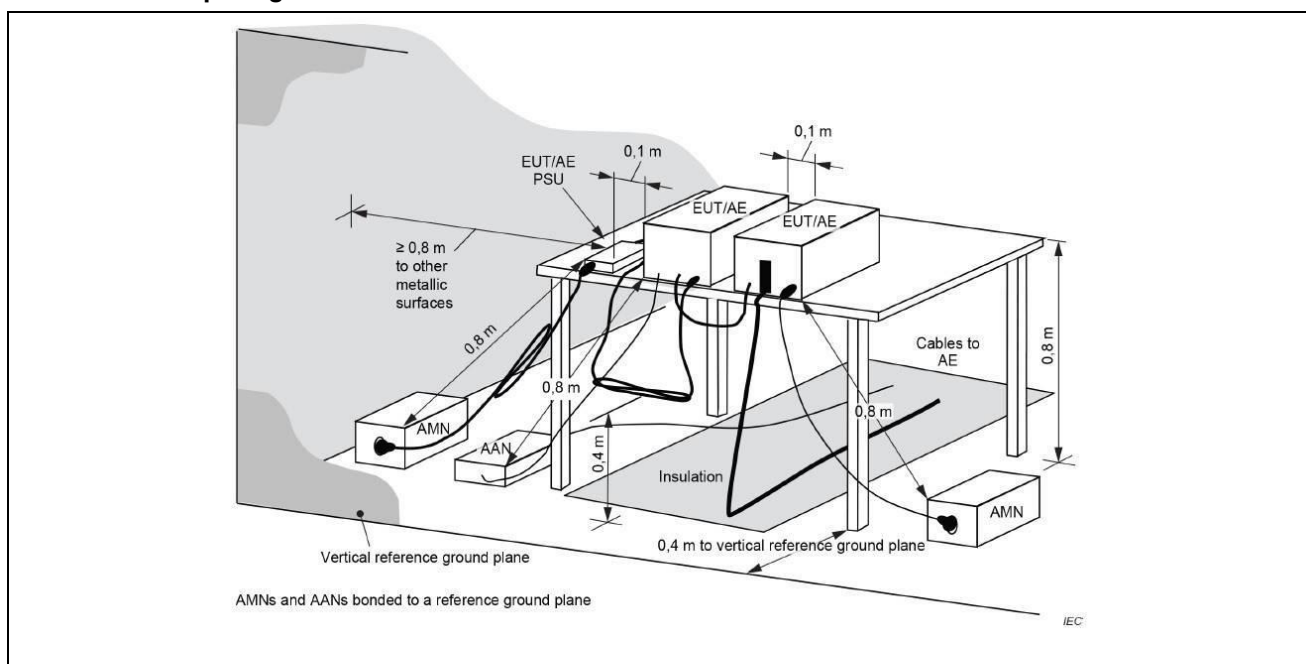
Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
Conclusion	EUT Antenna: The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.01dBi. Antenna location: Refer to internal photos

10 Radio Spectrum Matter Test Results (RF)

10.1 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 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2		
Procedure:	Refer to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices Remark: 1. Test the EUT on the lowest, middle, and highest channels. 2. Level= Reading+ Factor, Margin= Level- Limit. 3. All modes' lowest, middle, and highest channels were tested, but only the worst data was recorded in the report.		

10.1.1 Test Setup Diagram:

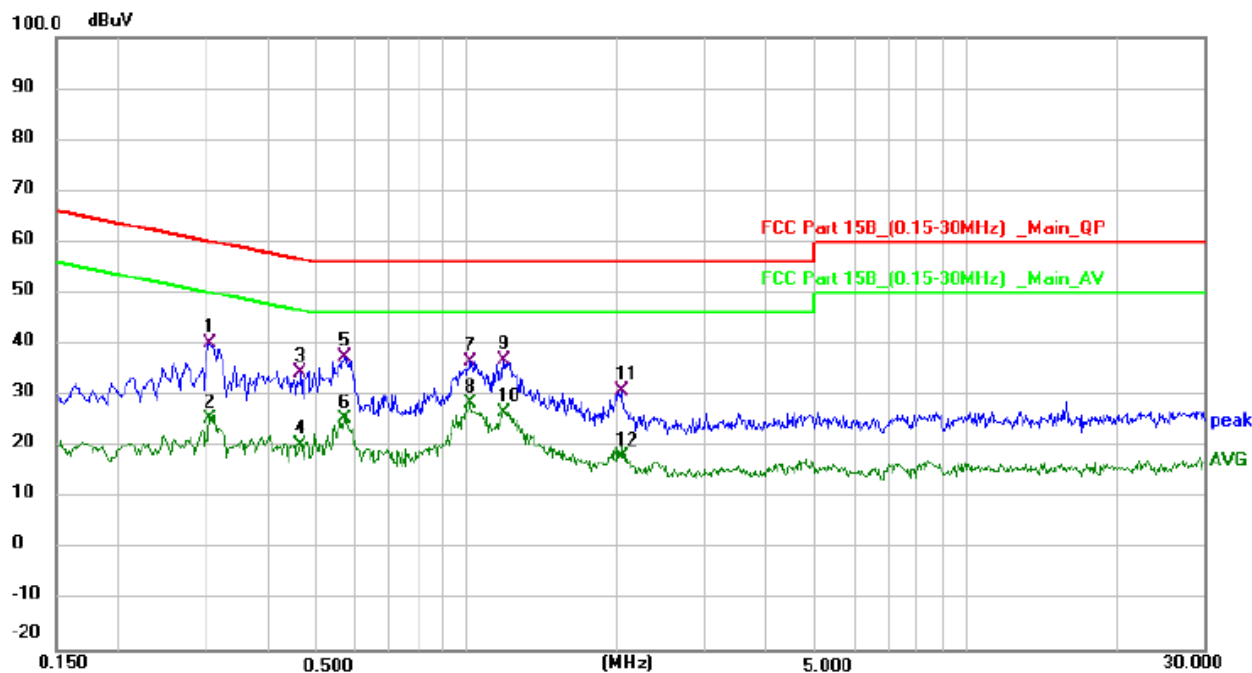


10.1.2 E.U.T. Operation:

Operating Environment:					
Temperature:	23.7 °C	Humidity:	56.2%	Atmospheric Pressure:	1010 mbar
Per-test mode:	TM1				
Final test mode:	TM1(BW-1M-Low channel)				
Test Voltage:	AC 120V/60Hz				

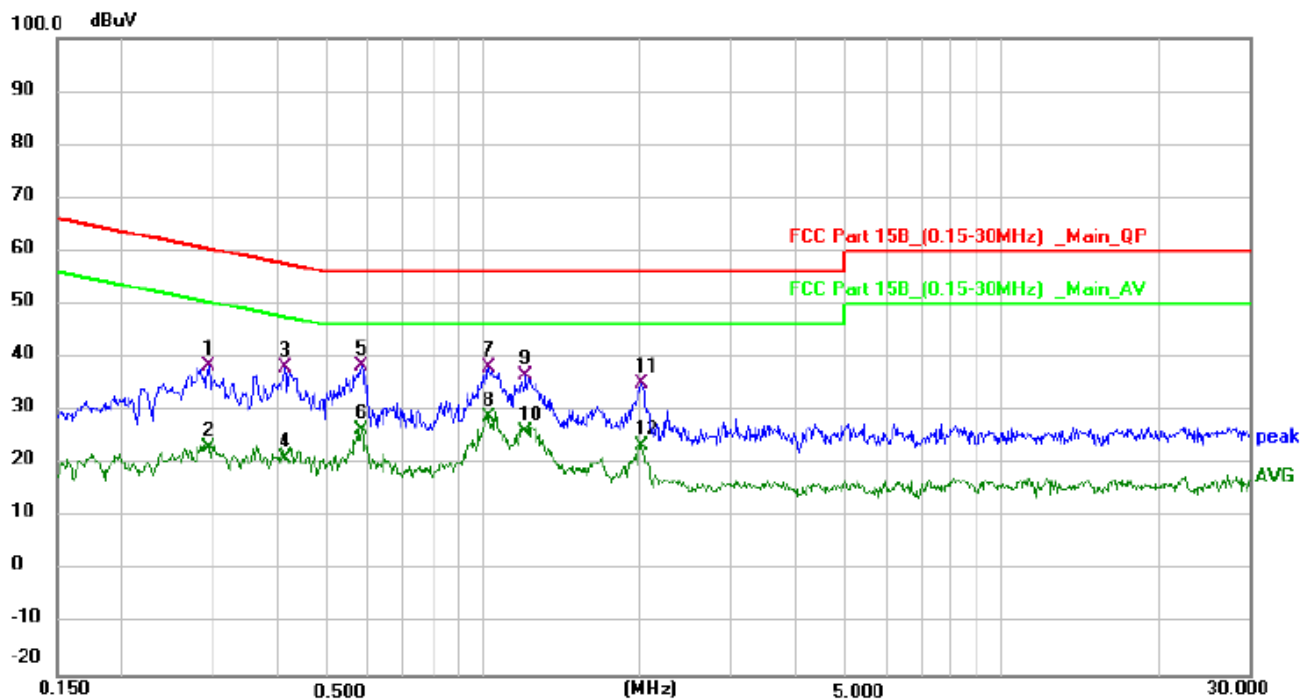
10.1.3 Test Data:

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3060	20.54	19.49	40.03	60.08	-20.05	QP	P	
2	0.3060	6.07	19.49	25.56	50.08	-24.52	AVG	P	
3	0.4660	14.85	19.50	34.35	56.58	-22.23	QP	P	
4	0.4660	0.94	19.50	20.44	46.58	-26.14	AVG	P	
5	0.5700	17.85	19.50	37.35	56.00	-18.65	QP	P	
6	0.5700	6.05	19.50	25.55	46.00	-20.45	AVG	P	
7	1.0180	17.16	19.52	36.68	56.00	-19.32	QP	P	
8 *	1.0180	8.82	19.52	28.34	46.00	-17.66	AVG	P	
9	1.1860	17.38	19.52	36.90	56.00	-19.10	QP	P	
10	1.1860	7.03	19.52	26.55	46.00	-19.45	AVG	P	
11	2.0340	11.27	19.53	30.80	56.00	-25.20	QP	P	
12	2.0340	-1.46	19.53	18.07	46.00	-27.93	AVG	P	

TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L

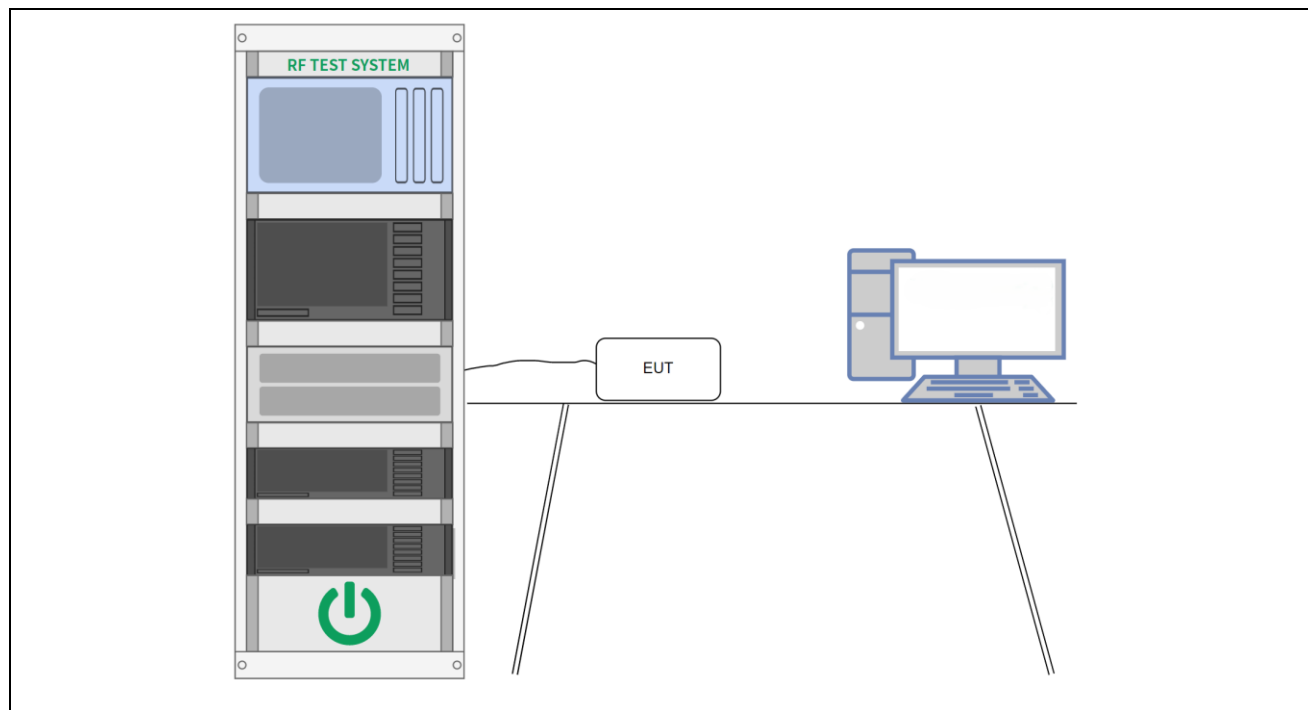


No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2940	18.90	19.44	38.34	60.41	-22.07	QP	P	
2	0.2940	3.59	19.44	23.03	50.41	-27.38	AVG	P	
3	0.4140	18.43	19.53	37.96	57.57	-19.61	QP	P	
4	0.4140	1.38	19.53	20.91	47.57	-26.66	AVG	P	
5	0.5820	18.70	19.53	38.23	56.00	-17.77	QP	P	
6	0.5820	6.72	19.53	26.25	46.00	-19.75	AVG	P	
7	1.0220	18.48	19.52	38.00	56.00	-18.00	QP	P	
8 *	1.0220	9.09	19.52	28.61	46.00	-17.39	AVG	P	
9	1.2059	16.98	19.51	36.49	56.00	-19.51	QP	P	
10	1.2059	6.49	19.51	26.00	46.00	-20.00	AVG	P	
11	2.0180	15.68	19.49	35.17	56.00	-20.83	QP	P	
12	2.0180	3.79	19.49	23.28	46.00	-22.72	AVG	P	

10.2 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.8
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

10.2.1 Test Setup Diagram:



10.2.2 E.U.T. Operation:

Operating Environment:					
Temperature:	23.8 °C	Humidity:	51.2 %	Atmospheric Pressure:	1010 mbar
Per-test mode:	TM1				
Final test mode:	TM1				

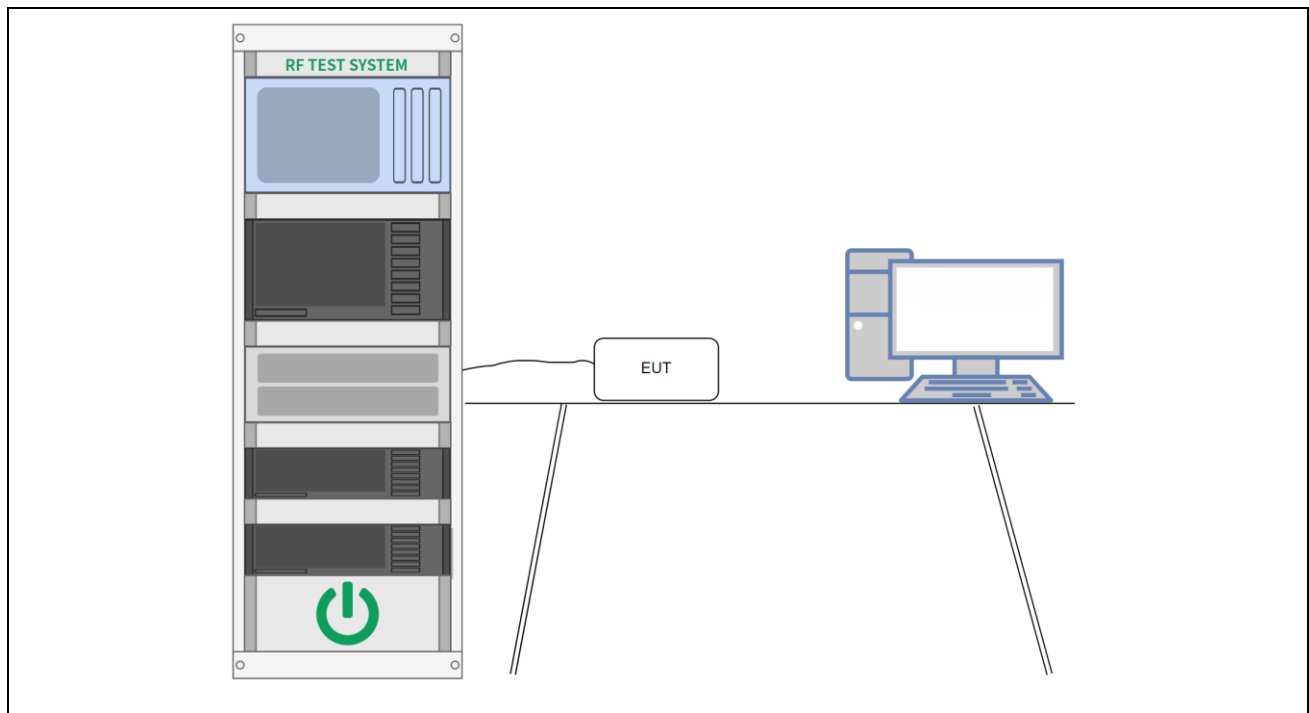
10.2.3 Test Data:

Please Refer to Appendix for Details.

10.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.9.1
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.9.1 Maximum peak conducted output power

10.3.1 Test Setup Diagram:



10.3.2 E.U.T. Operation:

Operating Environment:					
Temperature:	23.8 °C	Humidity:	51.2 %	Atmospheric Pressure:	1010 mbar
Per-test mode:	TM1				
Final test mode:	TM1				

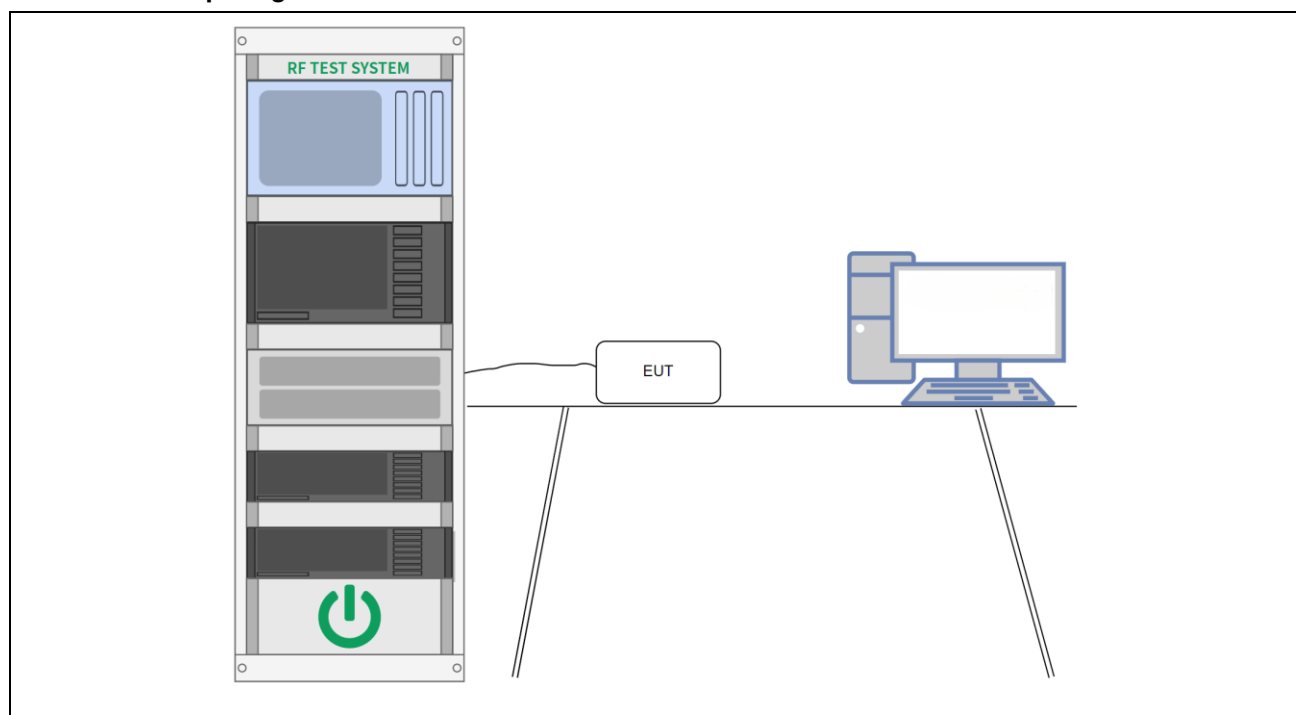
10.3.3 Test Data:

Please Refer to Appendix for Details.

10.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10, Maximum power spectral density level in the fundamental emission

10.4.1 Test Setup Diagram:



10.4.2 E.U.T. Operation:

Operating Environment:					
Temperature:	23.8 °C	Humidity:	51.2 %	Atmospheric Pressure:	1010 mbar
Per-test mode:	TM1				
Final test mode:	TM1				

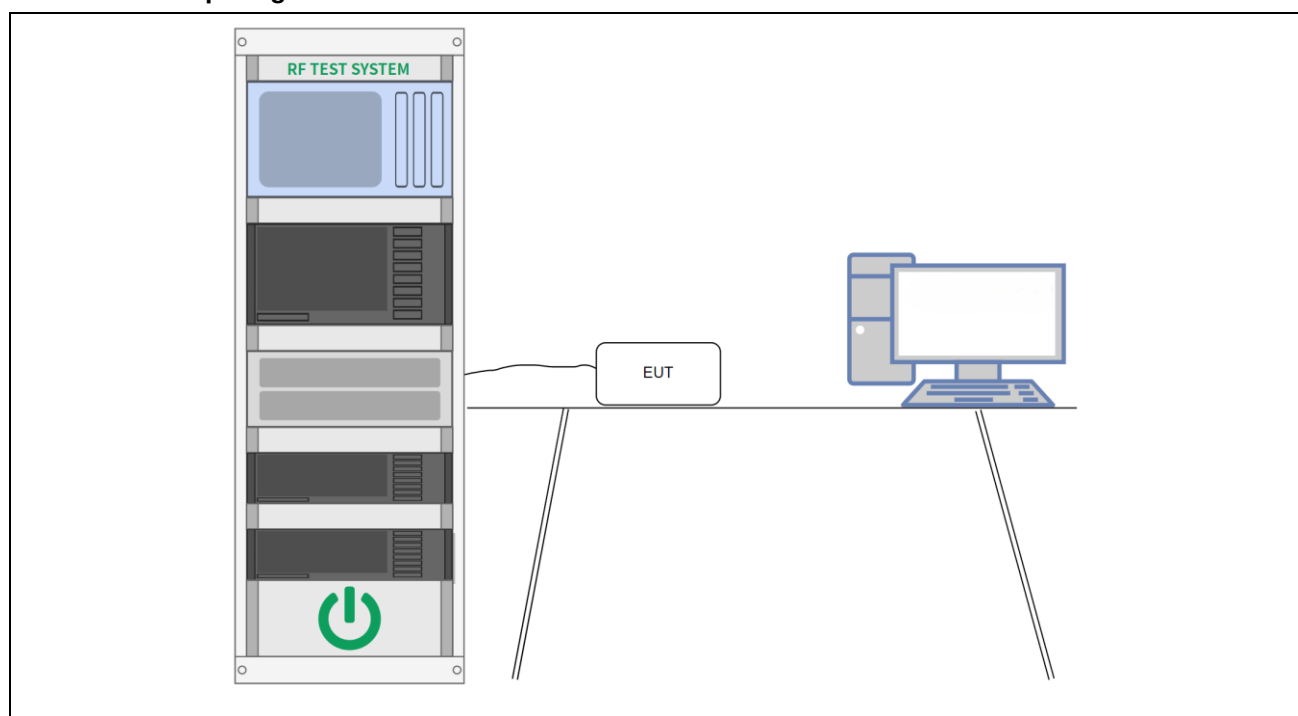
10.4.3 Test Data:

Please Refer to Appendix for Details.

10.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.11
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Section 11.11.1, Section 11.11.2, Section 11.11.3

10.5.1 Test Setup Diagram:



10.5.2 E.U.T. Operation:

Operating Environment:					
Temperature:	23.8 °C	Humidity:	51.2 %	Atmospheric Pressure:	1010 mbar
Per-test mode:	TM1				
Final test mode:	TM1				

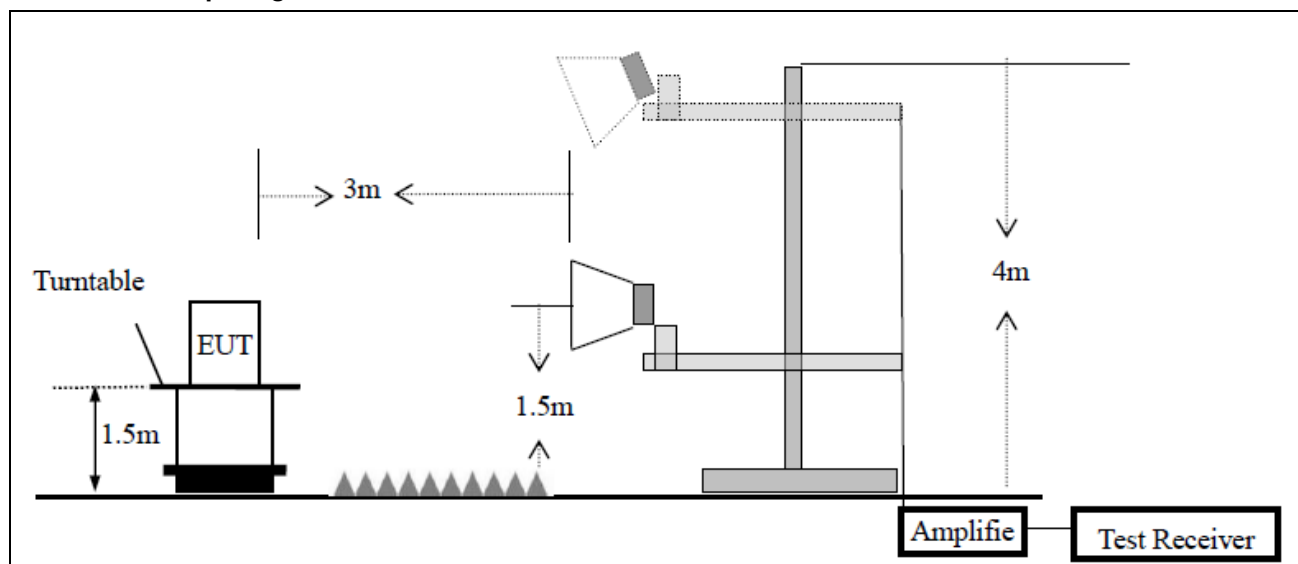
10.5.3 Test Data:

Please Refer to Appendix for Details.

10.6 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).				
Test Limit:	According to FCC Part 15.247(d): 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)).				
	According to FCC Part15.205, Restricted bands				
	MHz	MHz	MHz	GHz	
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	
	0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	
	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	
	4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	
	6.26775-6.26825	123-138	2200-2300	14.47-14.5	
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	
	8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	
	12.57675-12.57725	322-335.4	3600-4400	(2)	
	13.36-13.41				
	Limits of Radiated Emission Measurement(Above 1000MHz)				
	Frequency(MHz)	Class B (dBuV/m) (at 3M)			
		PEAK		AVERAGE	
		Above 1000		74	
			54		
	Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10			
	Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10.5.2 Remark: 1. Measurement at a distance of 3 meters. 2. Test the EUT on the lowest and highest channels. 3. Level= Reading+ Factor, Margin= Level- Limit. 4. All modes' lowest and highest channels were tested, but only the worst data was recorded in the report.			

10.6.1 Test Setup Diagram:

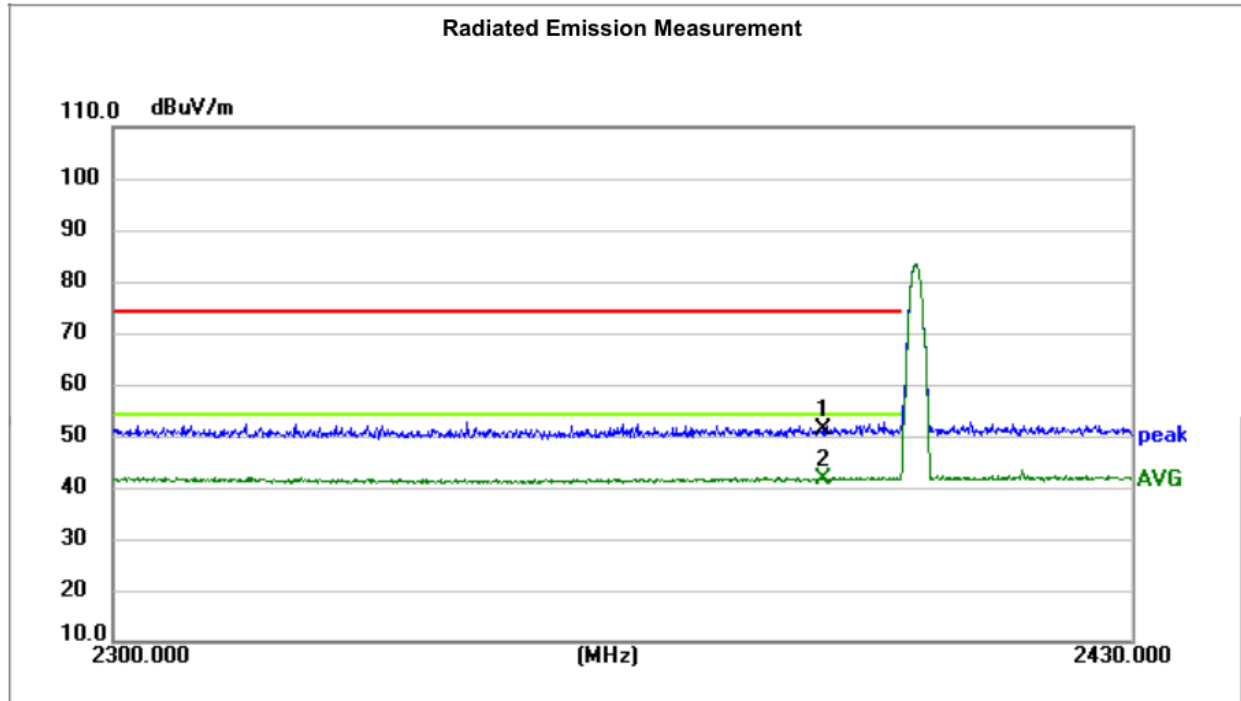


10.6.2 E.U.T. Operation:

Operating Environment:					
Temperature:	26.5 °C	Humidity:	54.4 %	Atmospheric Pressure:	1010 mbar
Per-test mode:	TM1				
Final test mode:	TM1(BW-1M)				

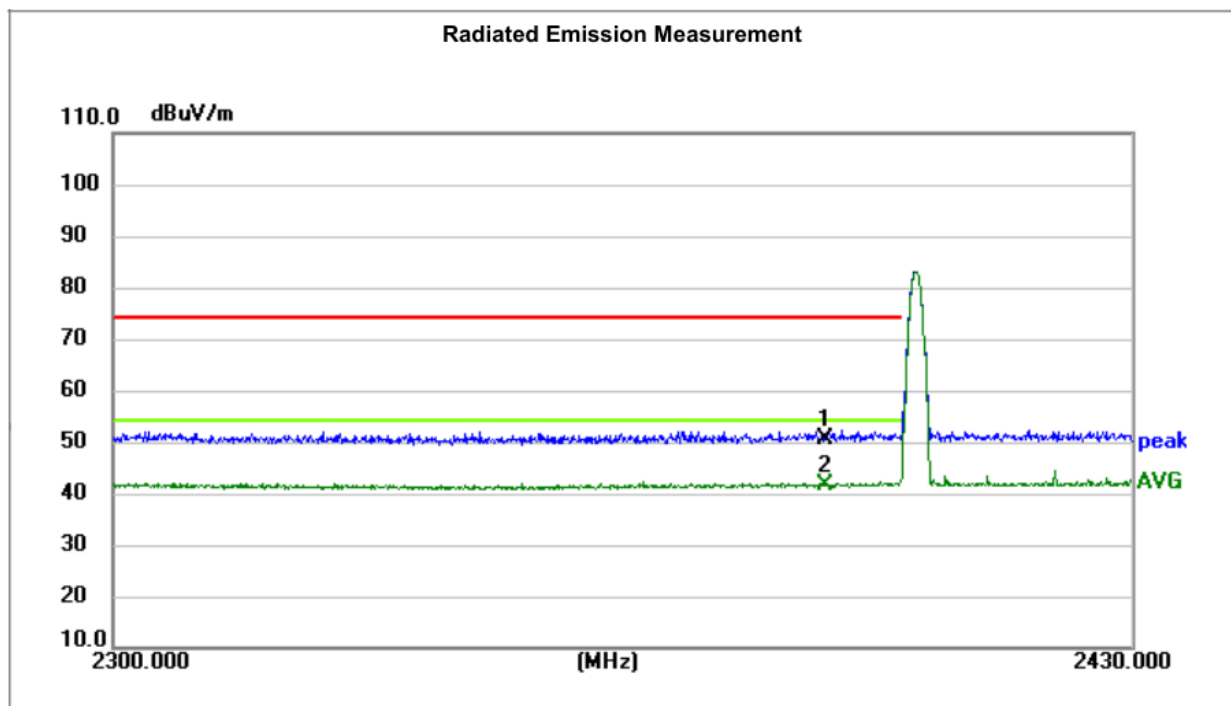
10.6.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



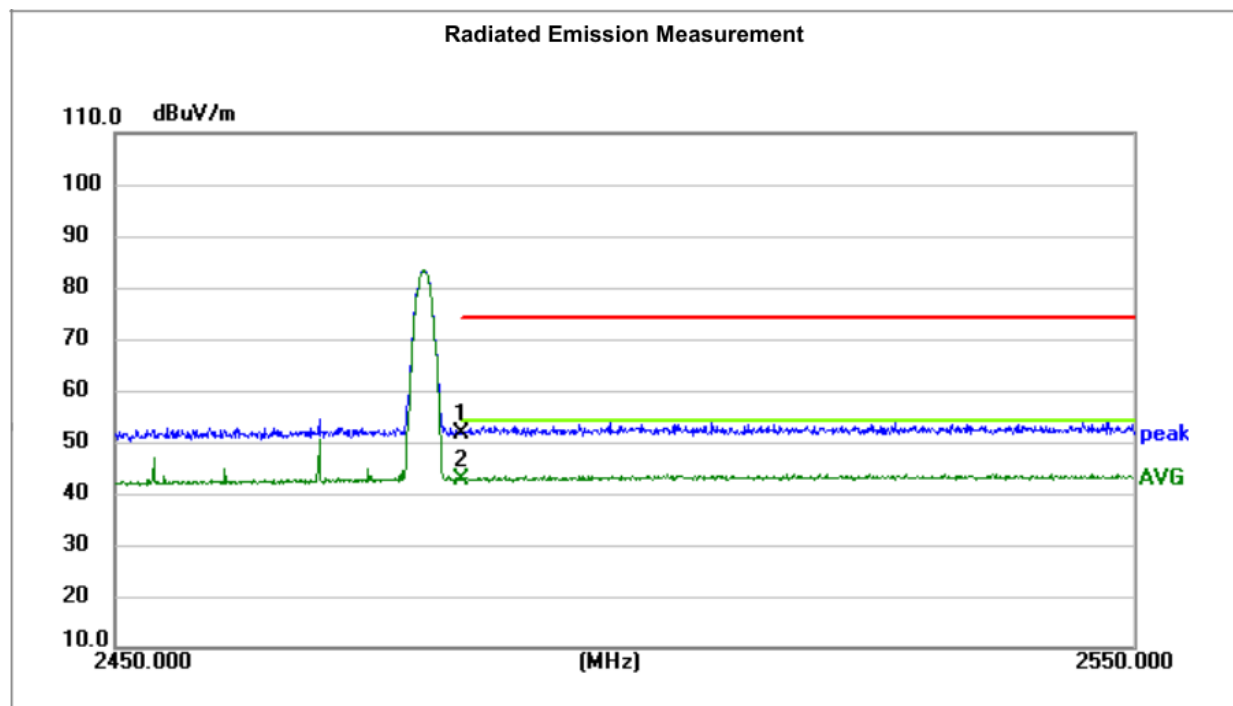
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	21.43	29.88	51.31	74.00	-22.69	peak	P	
2 *	2390.000	11.60	29.88	41.48	54.00	-12.52	AVG	P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



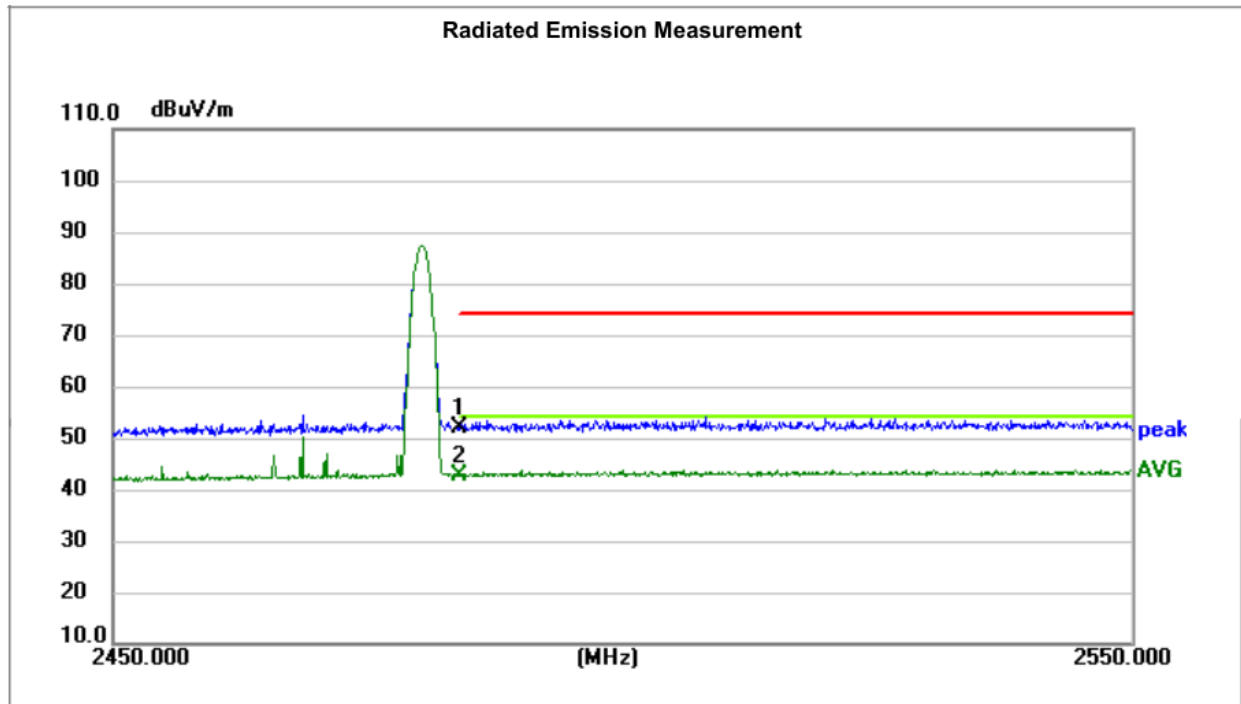
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	20.48	29.88	50.36	74.00	-23.64	peak	P	
2 *	2390.000	11.82	29.88	41.70	54.00	-12.30	AVG	P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	20.94	30.69	51.63	74.00	-22.37	peak	P	
2 *	2483.500	12.16	30.69	42.85	54.00	-11.15	AVG	P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H



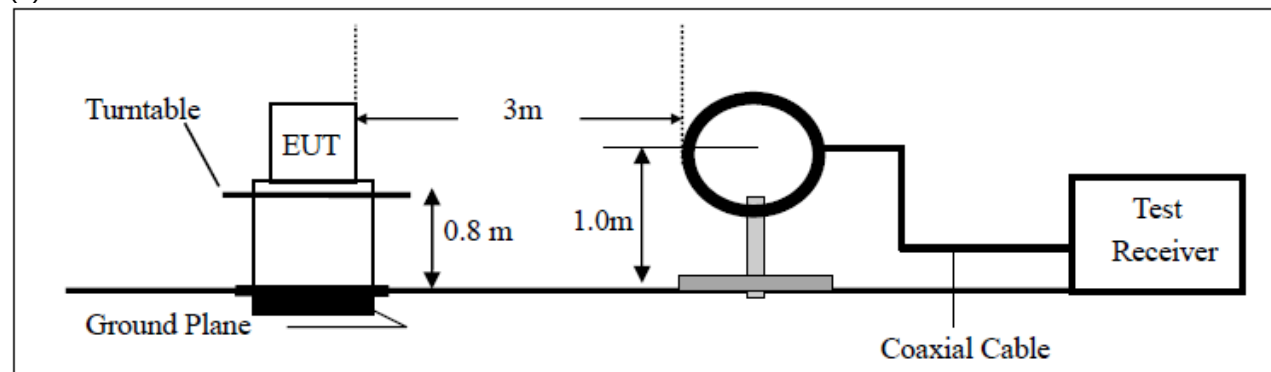
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	21.14	30.69	51.83	74.00	-22.17	peak	P	
2 *	2483.500	12.05	30.69	42.74	54.00	-11.26	AVG	P	

10.7 Emissions in frequency bands (below 1GHz)

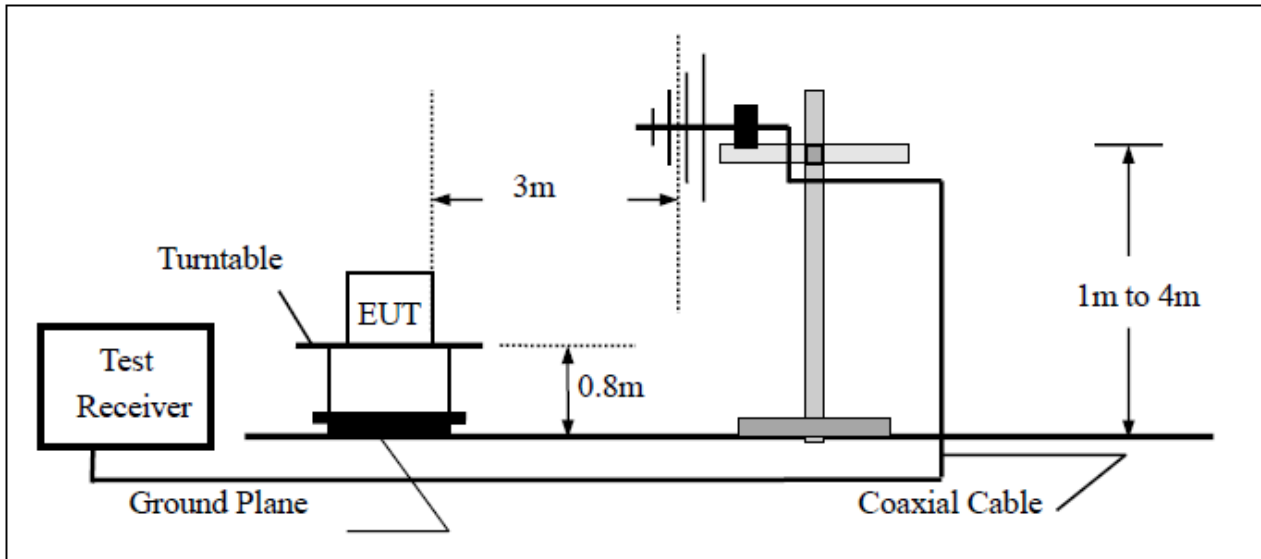
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4 Remark: 1. Emission level, For Frequency above 30MHz: $\text{dBuV/m}=20 \log (\mu\text{V/m})$ and For Frequency 9kHz~30MHz: $\text{dBuA/m}=20 \log (\mu\text{A/m})$ 2. Measurement was performed at an antenna to the closed point of EUT distance of meters. 3. For Frequency 9kHz~30MHz: Distance extrapolation factor $=40\log(\text{Specific distance/ test distance})(\text{dB})$; Limit line=Specific limits(dBuA) + distance extrapolation factor. 4. For Frequency above 30MHz: Distance extrapolation factor $=20\log(\text{Specific distance/ test distance})(\text{dB})$; Limit line=Specific limits(dBuV) + distance extrapolation factor. 1. Measurement at a distance of 3 meters. 2. Test the EUT on the lowest, middle, and highest channels. 3. Level= Reading+ Factor, Margin= Level- Limit. 4. All modes' lowest, middle, and highest channels were tested, but only the worst data was recorded in the report.		

10.7.1 Test Setup Diagram:

(a) For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1000MHz



10.7.2E.U.T. Operation:

Operating Environment:					
Temperature:	25.9 °C	Humidity:	52.7 %	Atmospheric Pressure:	1010 mbar
Per-test mode:	TM1				
Final test mode:	TM1 (BW-1M-Low channel)				
Test Voltage:	AC 120V/60Hz				

10.7.3 Test Data:

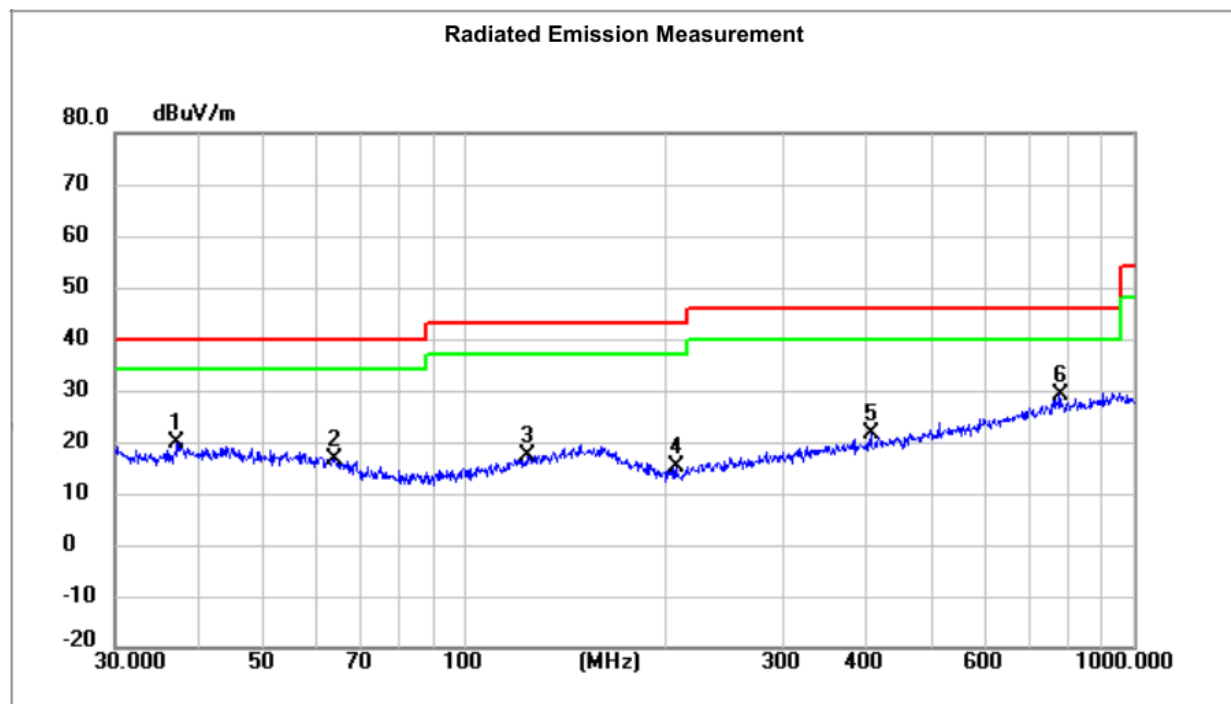
Spurious Emission below 30MHz (9KHz to 30MHz)

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

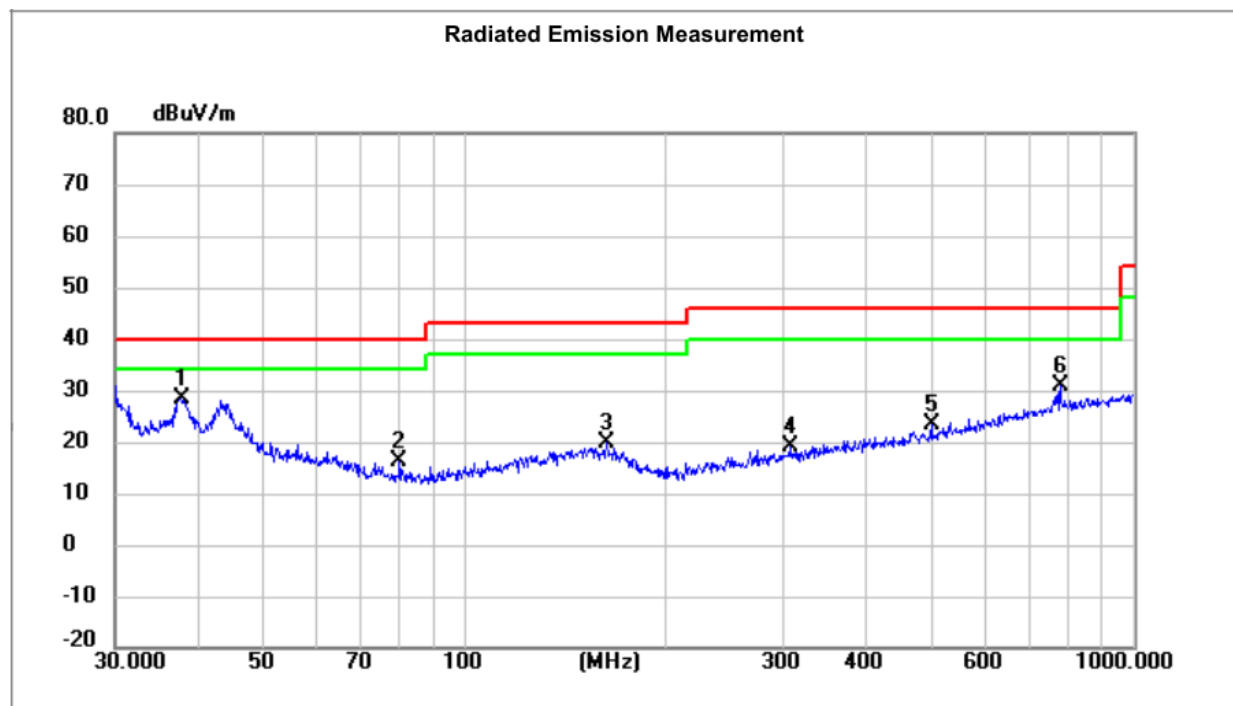
Spurious Emission below 1GHz (30MHz to 1GHz)

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	37.090	5.95	13.94	19.89	40.00	-20.11	peak	P	
2	63.871	4.27	12.38	16.65	40.00	-23.35	peak	P	
3	124.133	4.43	12.96	17.39	43.00	-25.61	peak	P	
4	207.850	4.48	10.65	15.13	43.00	-27.87	peak	P	
5	405.377	5.80	15.73	21.53	46.00	-24.47	peak	P	
6 *	776.878	6.89	22.14	29.03	46.00	-16.97	peak	P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	37.680	14.48	14.02	28.50	40.00	-11.50	peak	P	
2	79.940	6.43	9.71	16.14	40.00	-23.86	peak	P	
3	163.182	5.55	14.38	19.93	43.00	-23.07	peak	P	
4	308.371	5.24	13.78	19.02	46.00	-26.98	peak	P	
5	501.179	6.18	17.28	23.46	46.00	-22.54	peak	P	
6	779.607	8.56	22.17	30.73	46.00	-15.27	peak	P	

10.8 Emissions in frequency bands (above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency(MHz)	Class B (dBuV/m) (at 3M)	
		PEAK	AVERAGE
	Above 1000	74	54
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4 Remark: 1. Measurement at a distance of 3 meters. 2. Test the EUT on the lowest, middle, and highest channels. 3. Level= Reading+ Factor, Margin= Level- Limit. 4. All modes' lowest, middle, and highest channels were tested, but only the worst data was recorded in the report.		

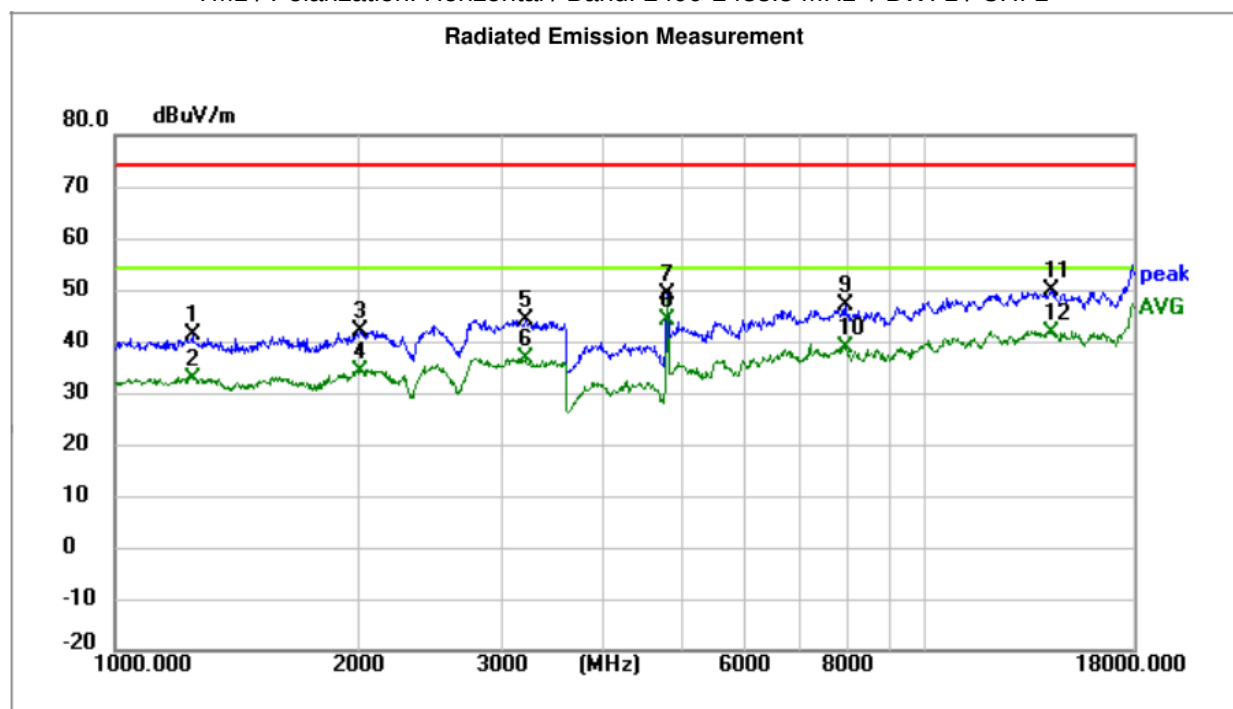
10.8.1E.U.T. Operation:

Operating Environment:					
Temperature:	26.5 °C	Humidity:	54.4 %	Atmospheric Pressure:	1010 mbar
Per-test mode:	TM1				
Final test mode:	TM1(BW-1M)				

10.8.2 Test Data:

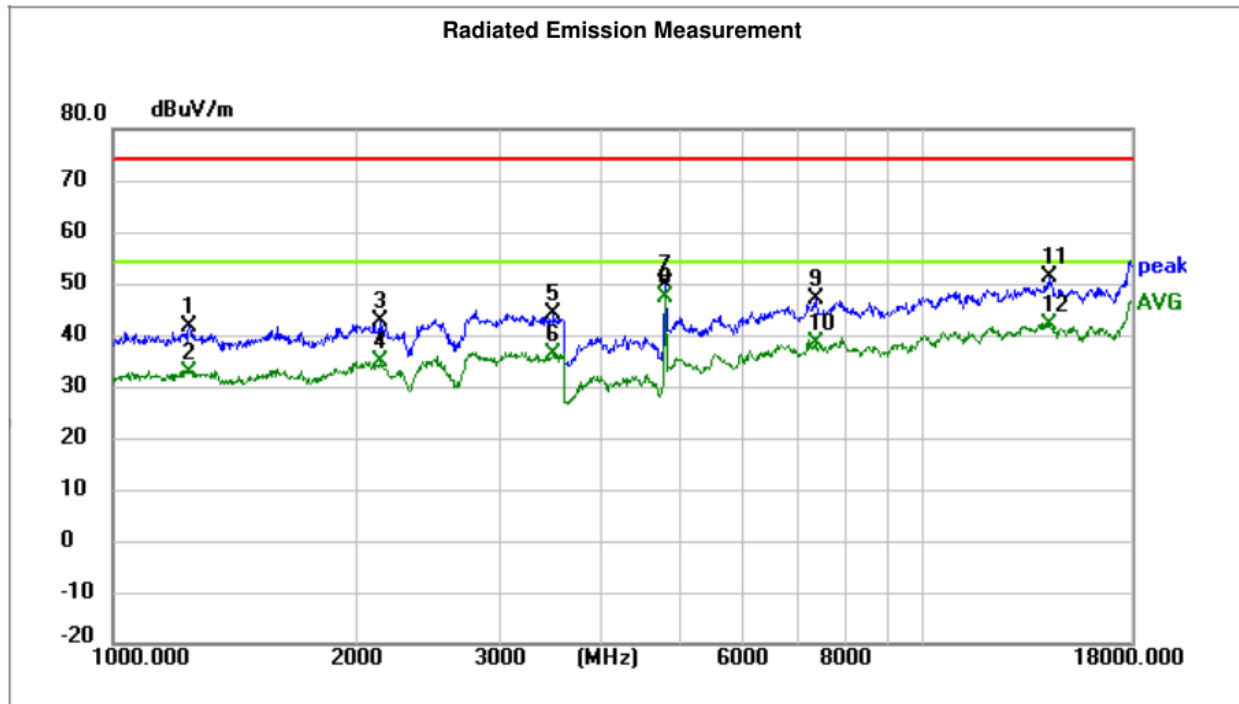
1-18G

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



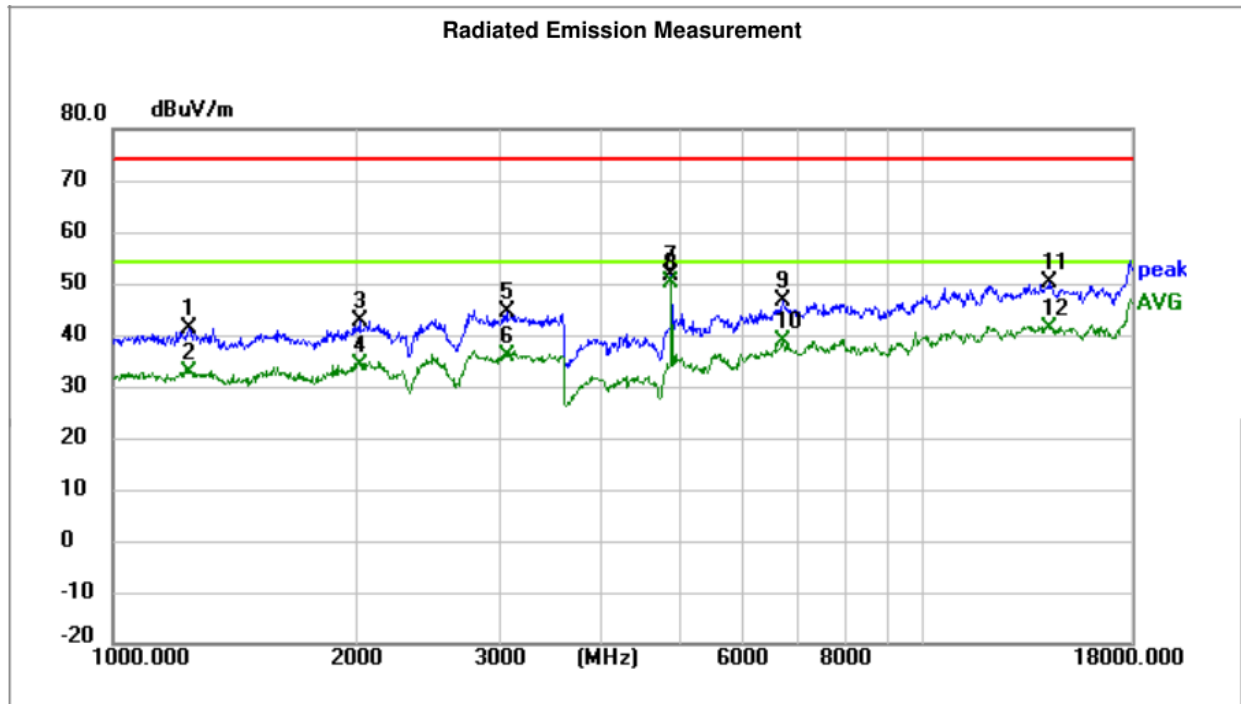
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	1246.500	59.09	-17.91	41.18	74.00	-32.82	peak	P	
2	1246.500	50.66	-17.91	32.75	54.00	-21.25	AVG	P	
3	2009.375	55.54	-13.47	42.07	74.00	-31.93	peak	P	
4	2009.375	47.53	-13.47	34.06	54.00	-19.94	AVG	P	
5	3210.000	53.28	-9.17	44.11	74.00	-29.89	peak	P	
6	3210.000	45.63	-9.17	36.46	54.00	-17.54	AVG	P	
7	4803.750	56.24	-7.03	49.21	74.00	-24.79	peak	P	
8 *	4803.750	51.14	-7.03	44.11	54.00	-9.89	AVG	P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



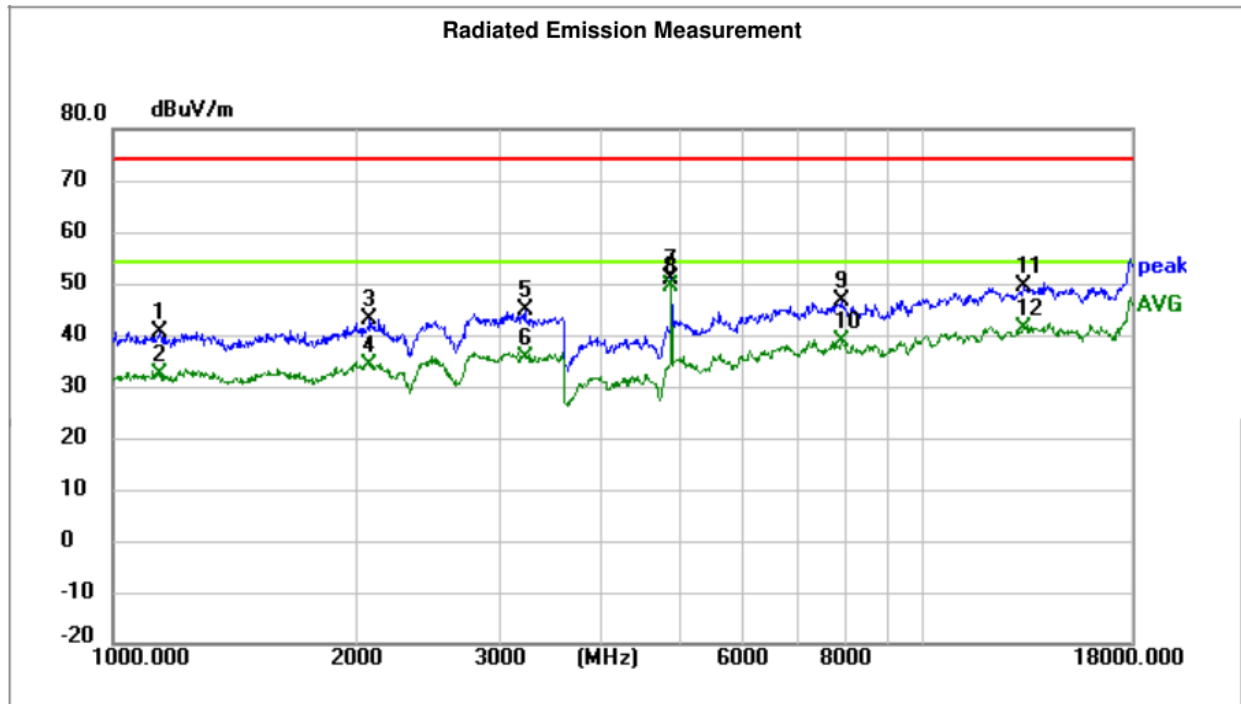
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	1243.100	59.56	-17.95	41.61	74.00	-32.39	peak	P	
2	1243.100	50.66	-17.95	32.71	54.00	-21.29	AVG	P	
3	2141.125	55.31	-12.72	42.59	74.00	-31.41	peak	P	
4	2141.125	47.67	-12.72	34.95	54.00	-19.05	AVG	P	
5	3505.375	53.61	-9.62	43.99	74.00	-30.01	peak	P	
6	3505.375	45.94	-9.62	36.32	54.00	-17.68	AVG	P	
7	4804.175	56.87	-7.02	49.85	74.00	-24.15	peak	P	
8 *	4804.175	54.36	-7.02	47.34	54.00	-6.66	AVG	P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M



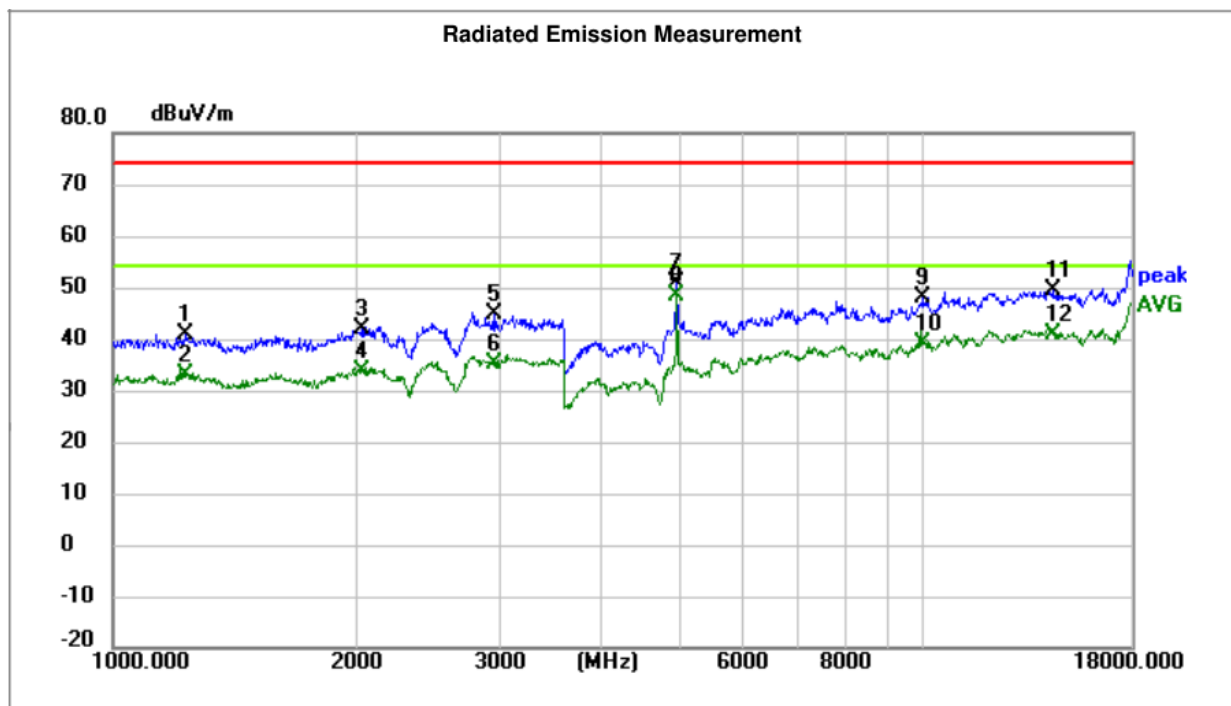
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	1245.650	59.23	-17.91	41.32	74.00	-32.68	peak	P	
2	1245.650	50.54	-17.91	32.63	54.00	-21.37	AVG	P	
3	2016.175	56.12	-13.37	42.75	74.00	-31.25	peak	P	
4	2016.175	47.48	-13.37	34.11	54.00	-19.89	AVG	P	
5	3069.325	54.03	-9.59	44.44	74.00	-29.56	peak	P	
6	3069.325	45.54	-9.59	35.95	54.00	-18.05	AVG	P	
7	4880.250	58.83	-7.23	51.60	74.00	-22.40	peak	P	
8 *	4880.250	57.29	-7.23	50.06	54.00	-3.94	AVG	P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M



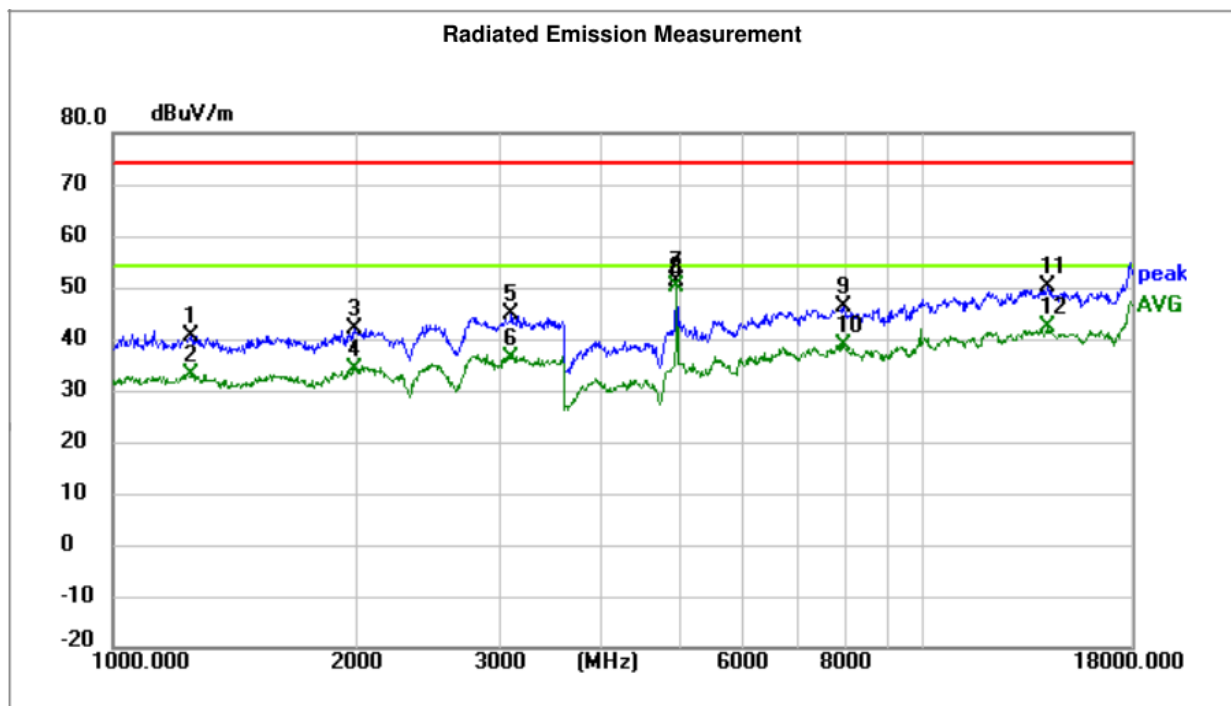
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	1144.925	59.33	-18.83	40.50	74.00	-33.50	peak	P	
2	1144.925	51.10	-18.83	32.27	54.00	-21.73	AVG	P	
3	2073.550	55.86	-12.69	43.17	74.00	-30.83	peak	P	
4	2073.550	46.63	-12.69	33.94	54.00	-20.06	AVG	P	
5	3226.575	53.84	-9.09	44.75	74.00	-29.25	peak	P	
6	3226.575	44.74	-9.09	35.65	54.00	-18.35	AVG	P	
7	4880.250	58.02	-7.23	50.79	74.00	-23.21	peak	P	
8 *	4880.250	56.78	-7.23	49.55	54.00	-4.45	AVG	P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	1232.475	58.86	-18.06	40.80	74.00	-33.20	peak	P	
2	1232.475	51.13	-18.06	33.07	54.00	-20.93	AVG	P	
3	2028.075	54.99	-13.19	41.80	74.00	-32.20	peak	P	
4	2028.075	46.81	-13.19	33.62	54.00	-20.38	AVG	P	
5	2962.225	54.94	-9.94	45.00	74.00	-29.00	peak	P	
6	2962.225	45.07	-9.94	35.13	54.00	-18.87	AVG	P	
7	4960.150	56.90	-6.07	50.83	74.00	-23.17	peak	P	
8 *	4960.150	54.62	-6.07	48.55	54.00	-5.45	AVG	P	

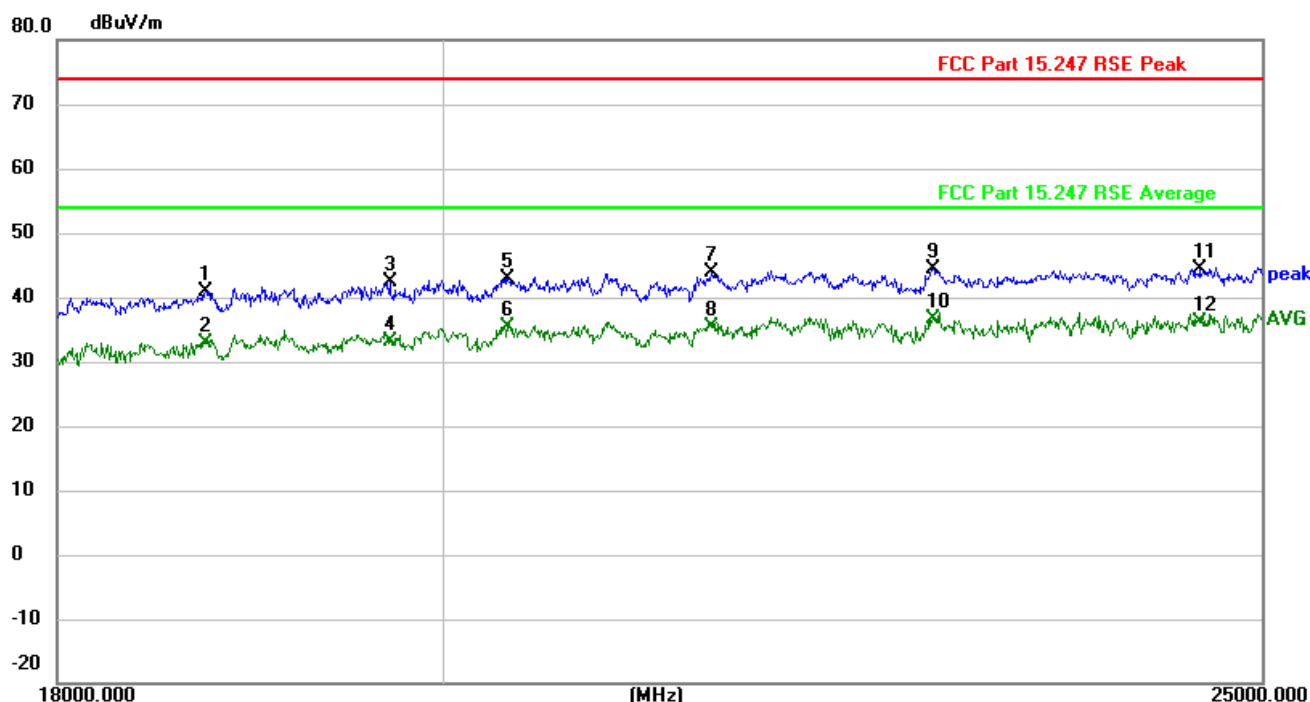
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	1246.075	58.41	-17.91	40.50	74.00	-33.50	peak	P	
2	1246.075	50.88	-17.91	32.97	54.00	-21.03	AVG	P	
3	1991.100	55.83	-13.80	42.03	74.00	-31.97	peak	P	
4	1991.100	47.98	-13.80	34.18	54.00	-19.82	AVG	P	
5	3099.925	54.21	-9.55	44.66	74.00	-29.34	peak	P	
6	3099.925	45.70	-9.55	36.15	54.00	-17.85	AVG	P	
7	4960.150	57.34	-6.07	51.27	74.00	-22.73	peak	P	
8 *	4960.150	56.41	-6.07	50.34	54.00	-3.66	AVG	P	

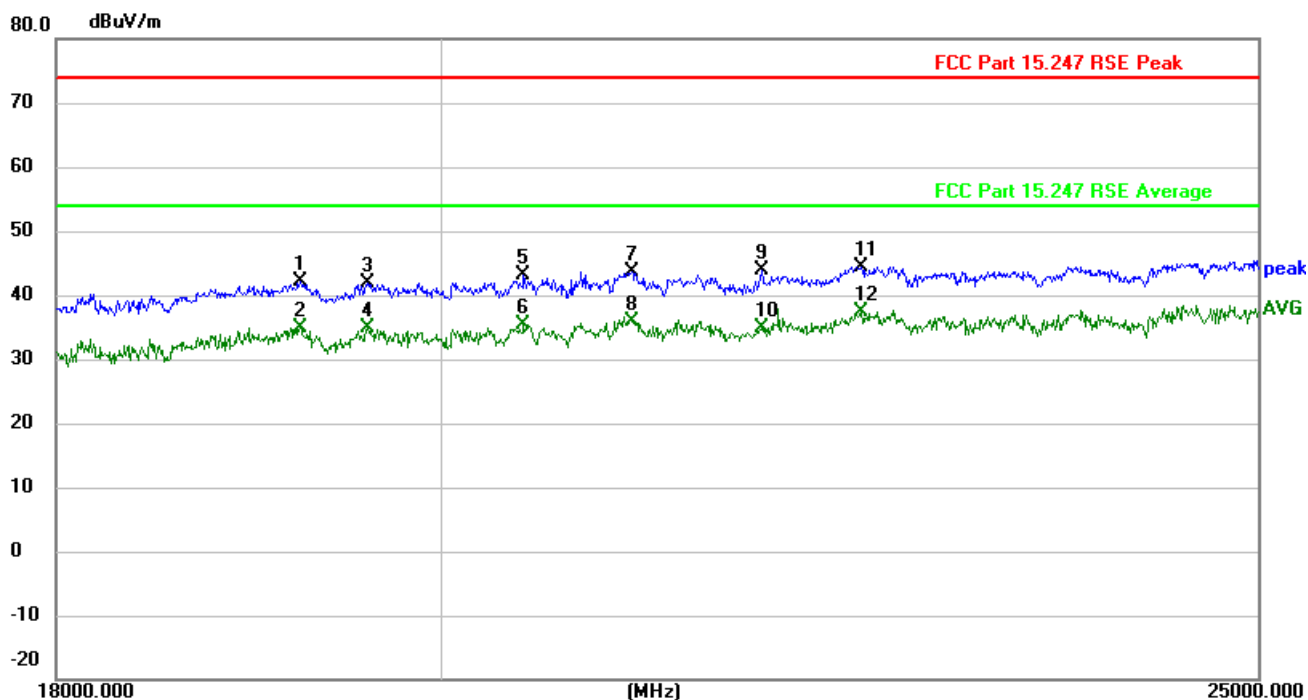
18-25G

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



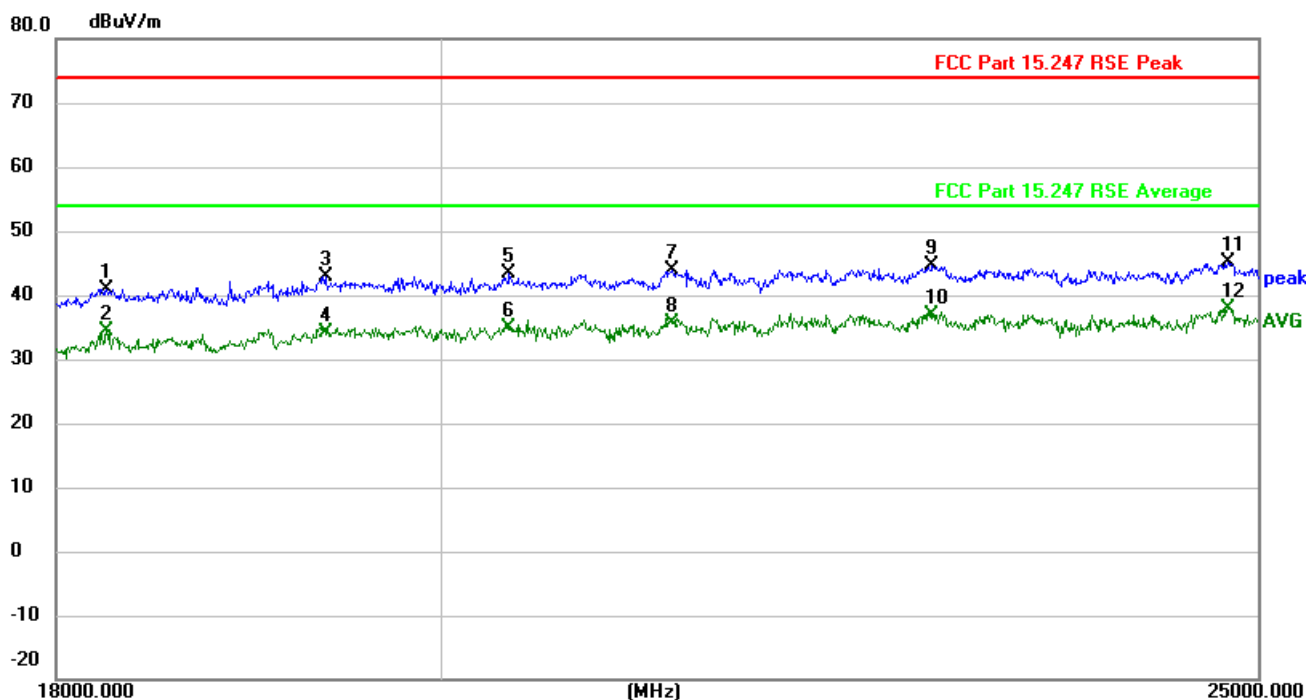
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	18744.450	55.40	-14.56	40.84	74.00	-33.16	peak	P	
2	18744.450	47.43	-14.56	32.87	54.00	-21.13	AVG	P	
3	19713.950	55.24	-12.97	42.27	74.00	-31.73	peak	P	
4	19713.950	46.09	-12.97	33.12	54.00	-20.88	AVG	P	
5	20357.950	55.41	-12.50	42.91	74.00	-31.09	peak	P	
6	20357.950	47.88	-12.50	35.38	54.00	-18.62	AVG	P	
7	21521.000	56.16	-12.25	43.91	74.00	-30.09	peak	P	
8	21521.000	47.55	-12.25	35.30	54.00	-18.70	AVG	P	
9	22857.125	56.15	-11.78	44.37	74.00	-29.63	peak	P	
10 *	22857.125	48.53	-11.78	36.75	54.00	-17.25	AVG	P	
11	24587.350	55.50	-11.01	44.49	74.00	-29.51	peak	P	
12	24587.350	47.22	-11.01	36.21	54.00	-17.79	AVG	P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



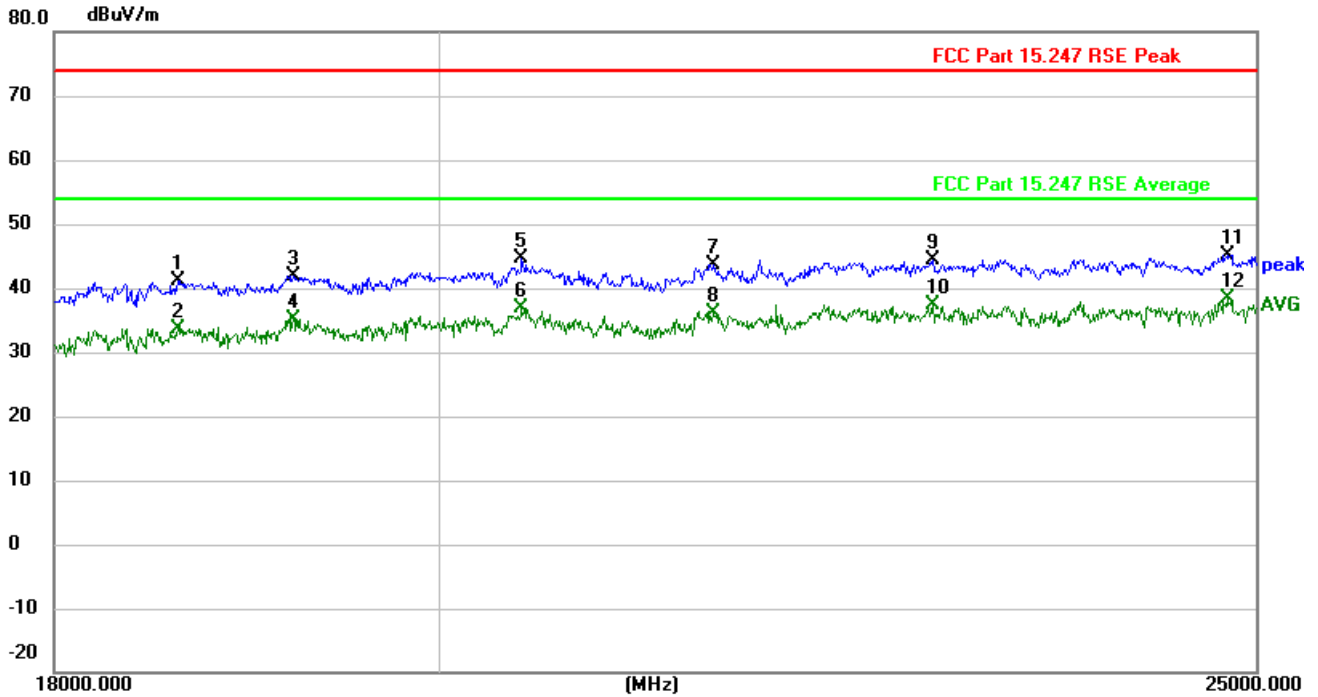
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	19242.325	56.01	-13.79	42.22	74.00	-31.78	peak	P	
2	19242.325	48.59	-13.79	34.80	54.00	-19.20	AVG	P	
3	19604.050	55.00	-13.24	41.76	74.00	-32.24	peak	P	
4	19604.050	48.17	-13.24	34.93	54.00	-19.07	AVG	P	
5	20457.700	55.32	-12.25	43.07	74.00	-30.93	peak	P	
6	20457.700	47.68	-12.25	35.43	54.00	-18.57	AVG	P	
7	21070.725	56.00	-12.28	43.72	74.00	-30.28	peak	P	
8	21070.725	48.17	-12.28	35.89	54.00	-18.11	AVG	P	
9	21832.500	55.94	-12.18	43.76	74.00	-30.24	peak	P	
10	21832.500	47.18	-12.18	35.00	54.00	-19.00	AVG	P	
11	22438.000	56.00	-11.56	44.44	74.00	-29.56	peak	P	
12 *	22438.000	48.82	-11.56	37.26	54.00	-16.74	AVG	P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M



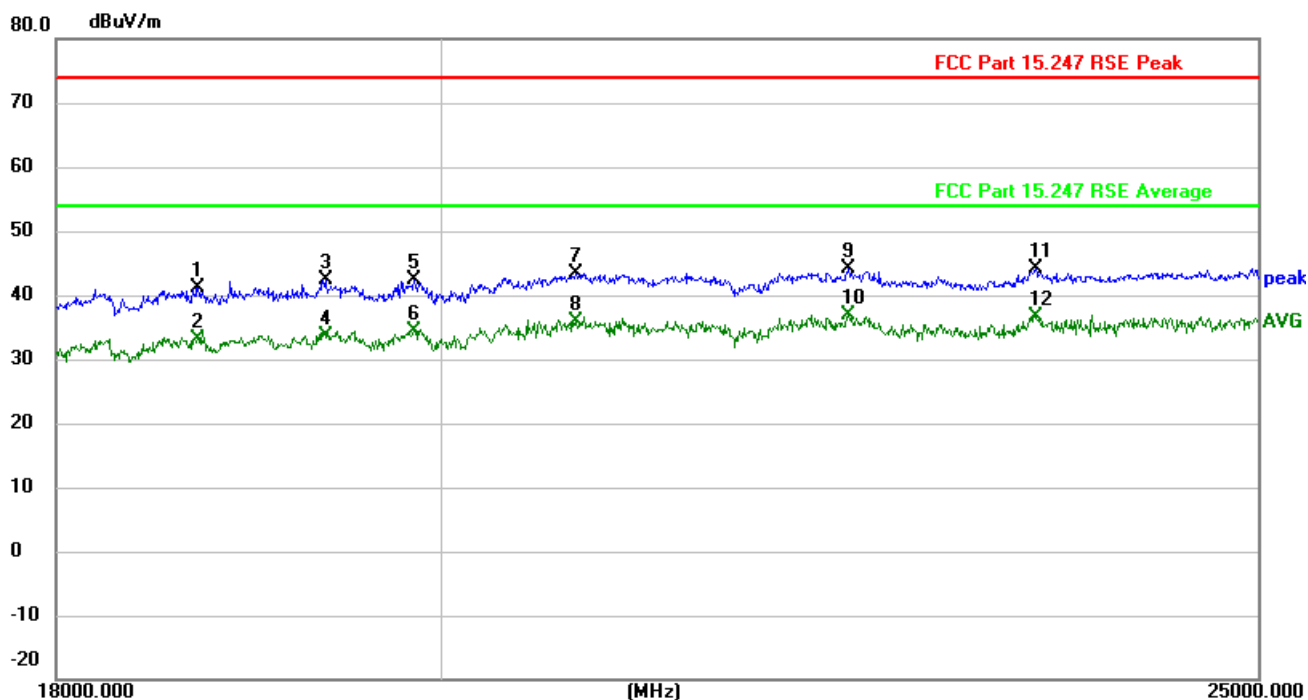
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	18250.425	55.61	-14.64	40.97	74.00	-33.03	peak	P	
2	18250.425	49.02	-14.64	34.38	54.00	-19.62	AVG	P	
3	19375.500	56.53	-13.63	42.90	74.00	-31.10	peak	P	
4	19375.500	47.64	-13.63	34.01	54.00	-19.99	AVG	P	
5	20373.875	55.74	-12.46	43.28	74.00	-30.72	peak	P	
6	20373.875	47.26	-12.46	34.80	54.00	-19.20	AVG	P	
7	21307.325	56.23	-12.23	44.00	74.00	-30.00	peak	P	
8	21307.325	47.76	-12.23	35.53	54.00	-18.47	AVG	P	
9	22872.175	56.41	-11.79	44.62	74.00	-29.38	peak	P	
10	22872.175	48.78	-11.79	36.99	54.00	-17.01	AVG	P	
11	24800.500	55.68	-10.66	45.02	74.00	-28.98	peak	P	
12 *	24800.500	48.46	-10.66	37.80	54.00	-16.20	AVG	P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M



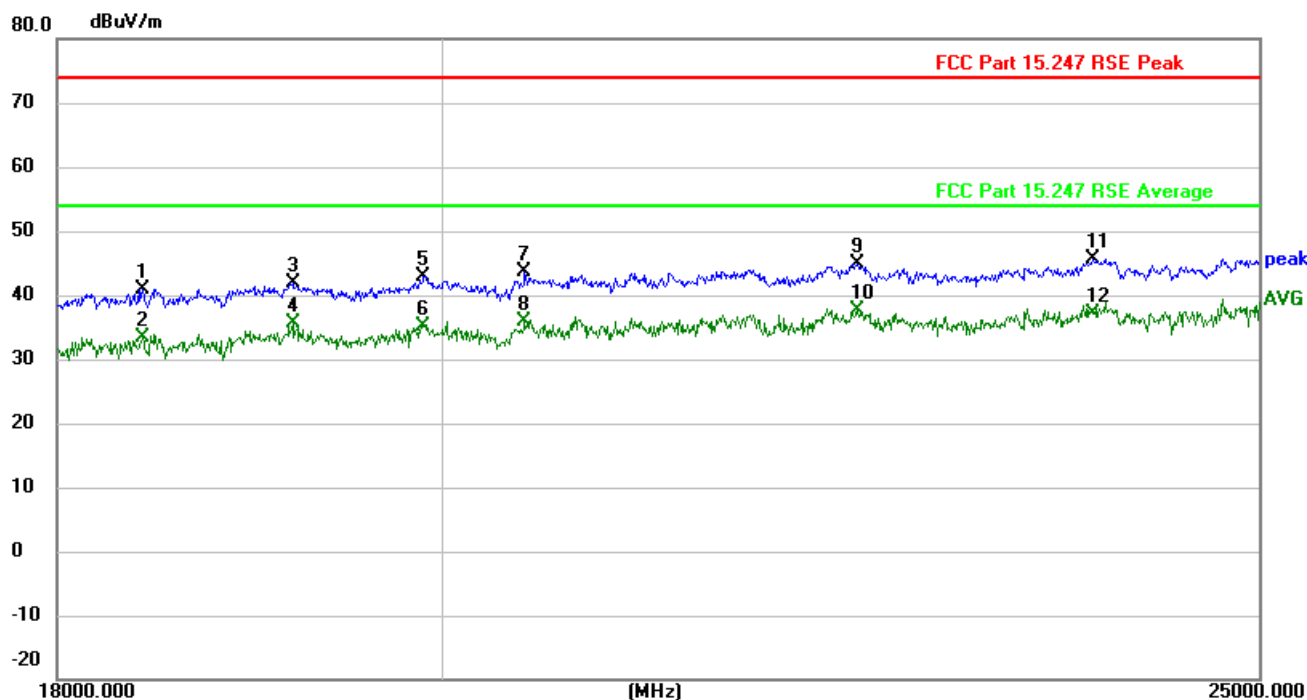
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	18625.450	55.74	-14.70	41.04	74.00	-32.96	peak	P	
2	18625.450	48.35	-14.70	33.65	54.00	-20.35	AVG	P	
3	19220.275	55.74	-13.81	41.93	74.00	-32.07	peak	P	
4	19220.275	48.88	-13.81	35.07	54.00	-18.93	AVG	P	
5	20457.700	56.82	-12.25	44.57	74.00	-29.43	peak	P	
6	20457.700	49.18	-12.25	36.93	54.00	-17.07	AVG	P	
7	21563.350	55.97	-12.25	43.72	74.00	-30.28	peak	P	
8	21563.350	48.36	-12.25	36.11	54.00	-17.89	AVG	P	
9	22891.600	56.17	-11.79	44.38	74.00	-29.62	peak	P	
10	22891.600	49.08	-11.79	37.29	54.00	-16.71	AVG	P	
11	24811.175	55.83	-10.60	45.23	74.00	-28.77	peak	P	
12 *	24811.175	49.06	-10.60	38.46	54.00	-15.54	AVG	P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	18717.150	55.74	-14.61	41.13	74.00	-32.87	peak	P	
2	18717.150	47.73	-14.61	33.12	54.00	-20.88	AVG	P	
3	19375.500	56.03	-13.63	42.40	74.00	-31.60	peak	P	
4	19375.500	47.14	-13.63	33.51	54.00	-20.49	AVG	P	
5	19855.875	55.09	-12.72	42.37	74.00	-31.63	peak	P	
6	19855.875	47.12	-12.72	34.40	54.00	-19.60	AVG	P	
7	20756.250	55.59	-12.14	43.45	74.00	-30.55	peak	P	
8	20756.250	48.01	-12.14	35.87	54.00	-18.13	AVG	P	
9	22357.150	55.90	-11.66	44.24	74.00	-29.76	peak	P	
10 *	22357.150	48.66	-11.66	37.00	54.00	-17.00	AVG	P	
11	23526.150	55.58	-11.43	44.15	74.00	-29.85	peak	P	
12	23526.150	48.01	-11.43	36.58	54.00	-17.42	AVG	P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H



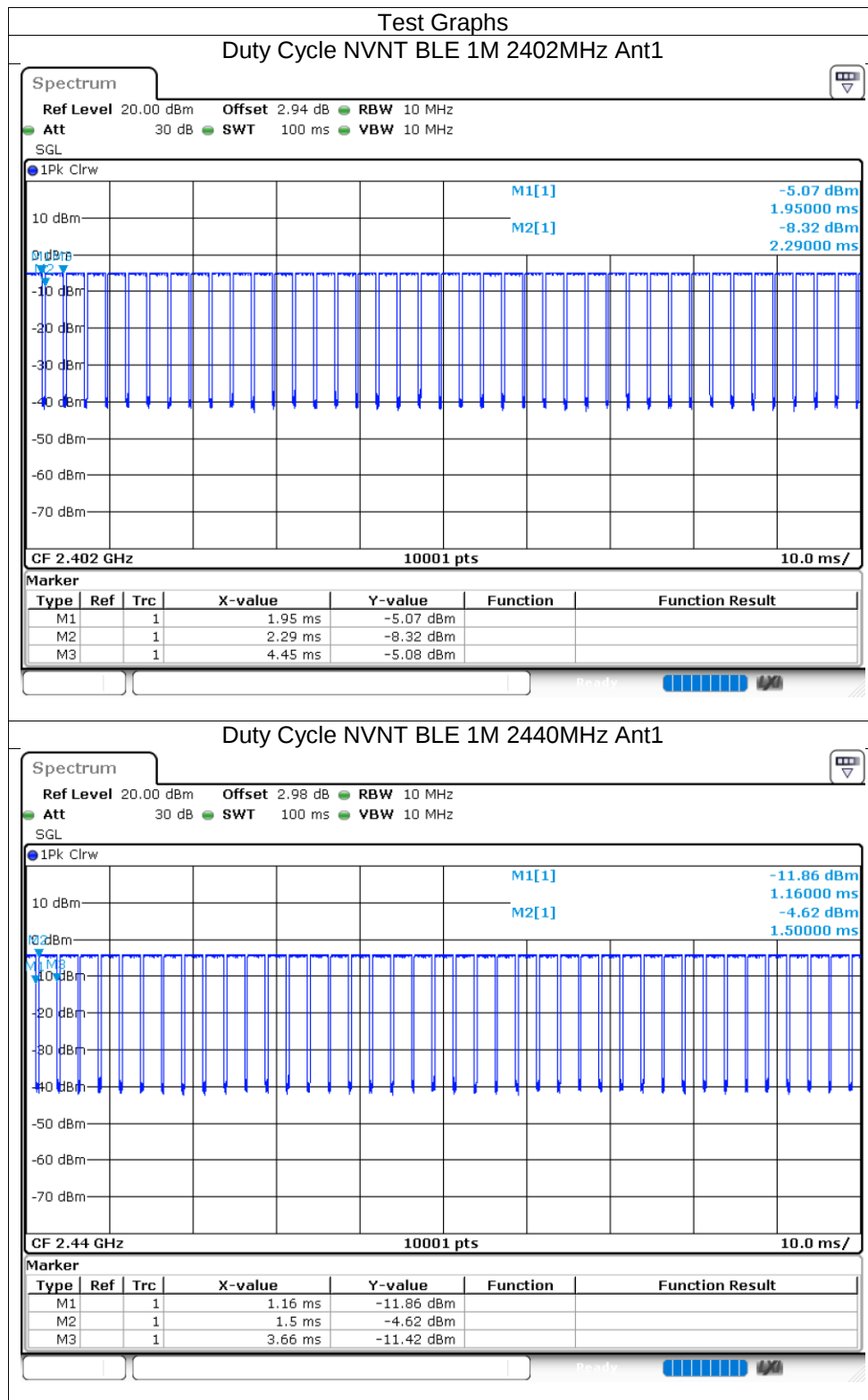
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	18429.975	55.74	-14.80	40.94	74.00	-33.06	peak	P	
2	18429.975	48.07	-14.80	33.27	54.00	-20.73	AVG	P	
3	19201.725	55.69	-13.84	41.85	74.00	-32.15	peak	P	
4	19201.725	49.36	-13.84	35.52	54.00	-18.48	AVG	P	
5	19897.175	55.58	-12.66	42.92	74.00	-31.08	peak	P	
6	19897.175	47.88	-12.66	35.22	54.00	-18.78	AVG	P	
7	20457.700	55.82	-12.25	43.57	74.00	-30.43	peak	P	
8	20457.700	48.18	-12.25	35.93	54.00	-18.07	AVG	P	
9	22404.225	56.49	-11.60	44.89	74.00	-29.11	peak	P	
10 *	22404.225	49.15	-11.60	37.55	54.00	-16.45	AVG	P	
11	23899.075	56.93	-11.25	45.68	74.00	-28.32	peak	P	
12	23899.075	48.30	-11.25	37.05	54.00	-16.95	AVG	P	

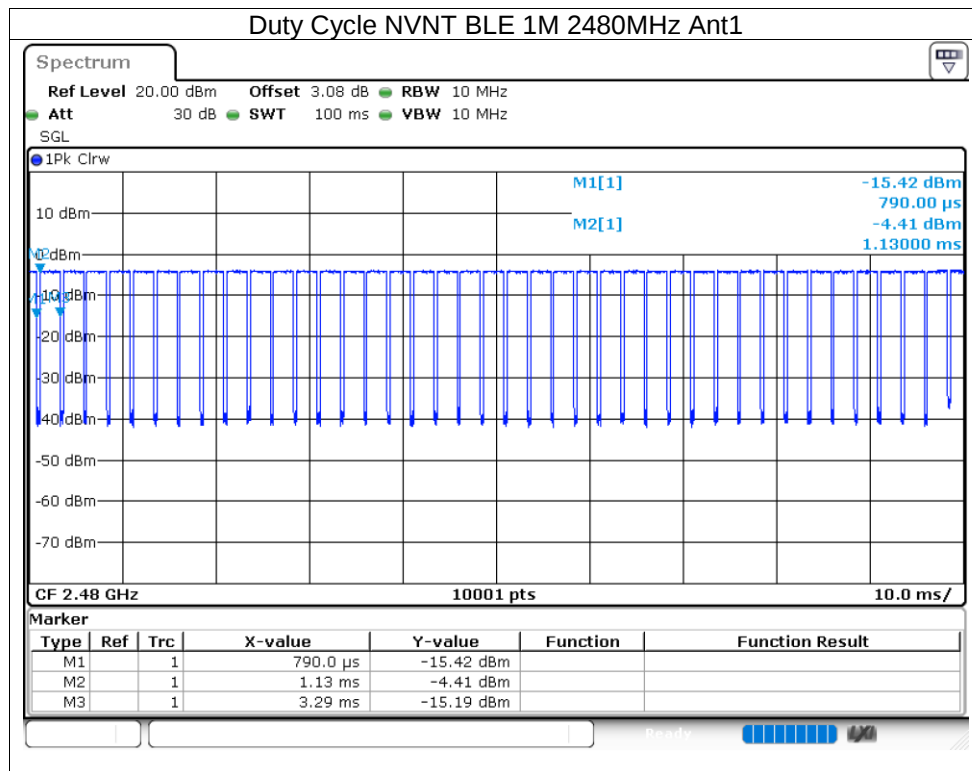
11 Appendix

11.1 1M

13.1.1 Duty Cycle

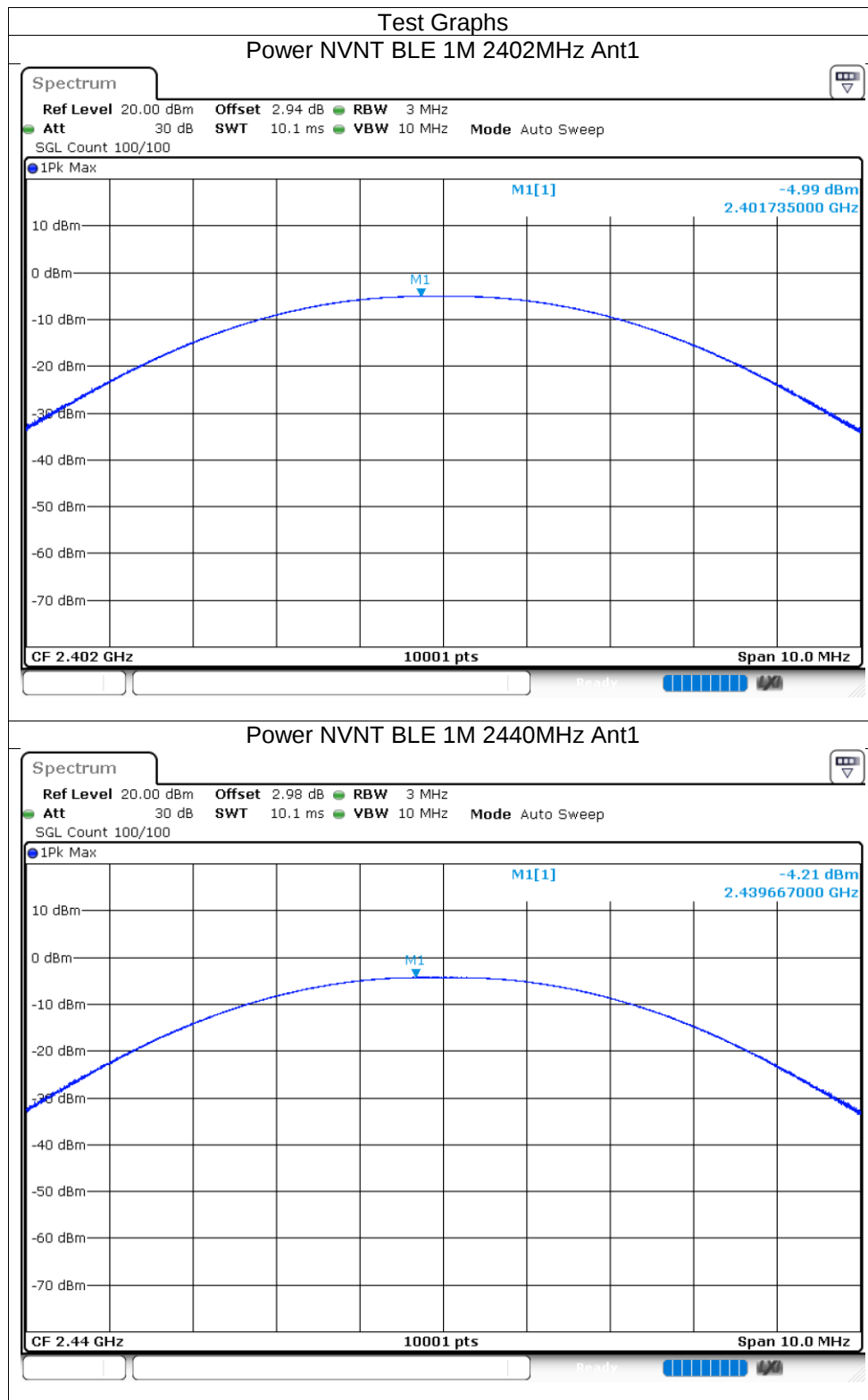
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	86.71	0.62	0.46
NVNT	BLE 1M	2440	Ant1	86.8	0.61	0.46
NVNT	BLE 1M	2480	Ant1	86.8	0.61	0.46

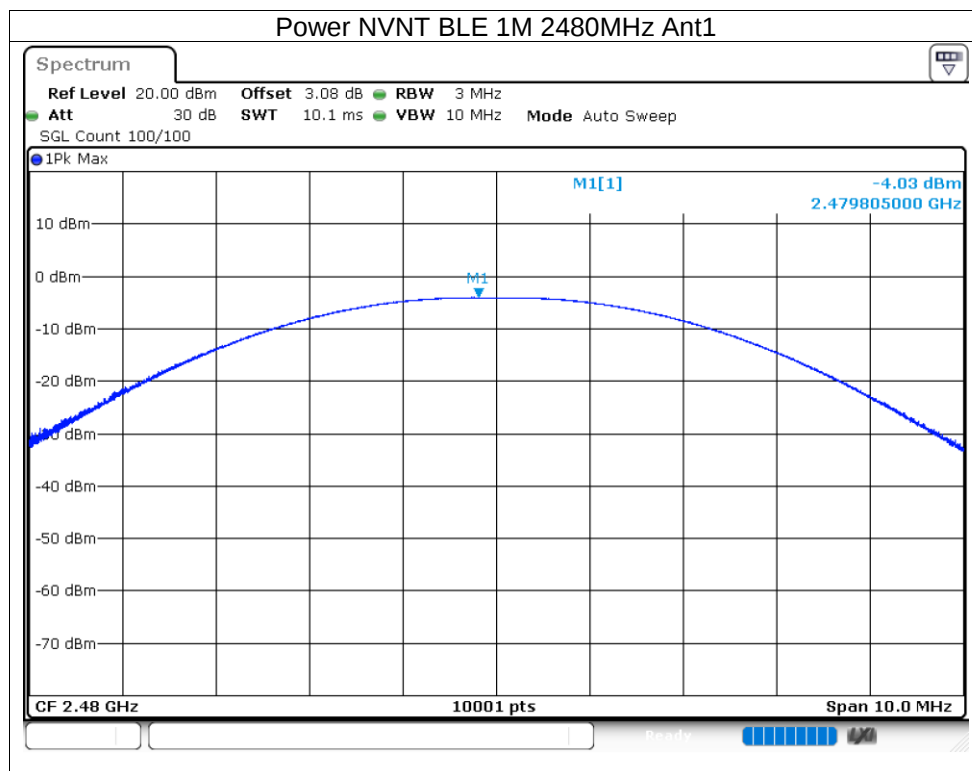




13.1.2 Maximum Conducted Output Power

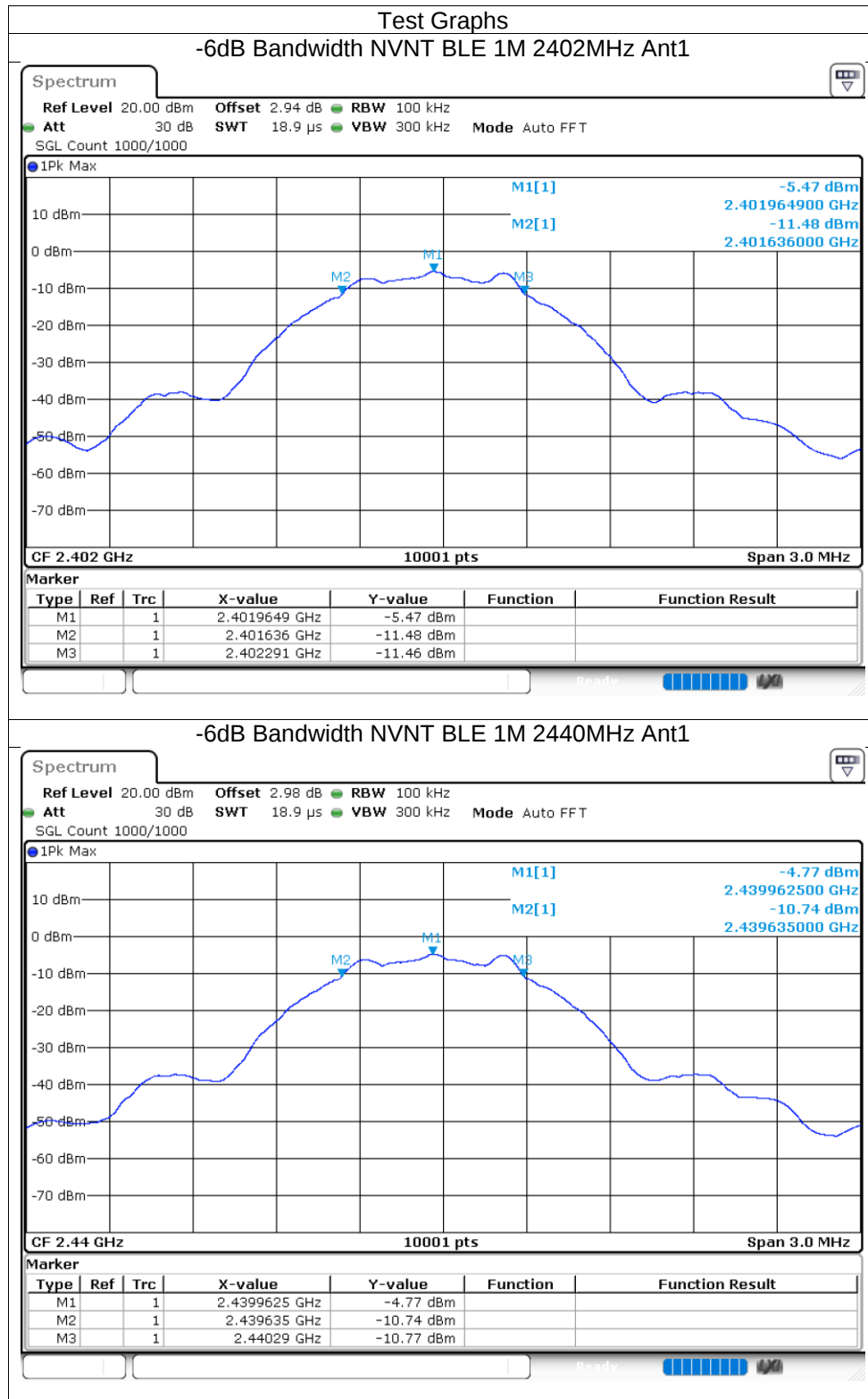
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-4.99	30	Pass
NVNT	BLE 1M	2440	Ant1	-4.21	30	Pass
NVNT	BLE 1M	2480	Ant1	-4.03	30	Pass

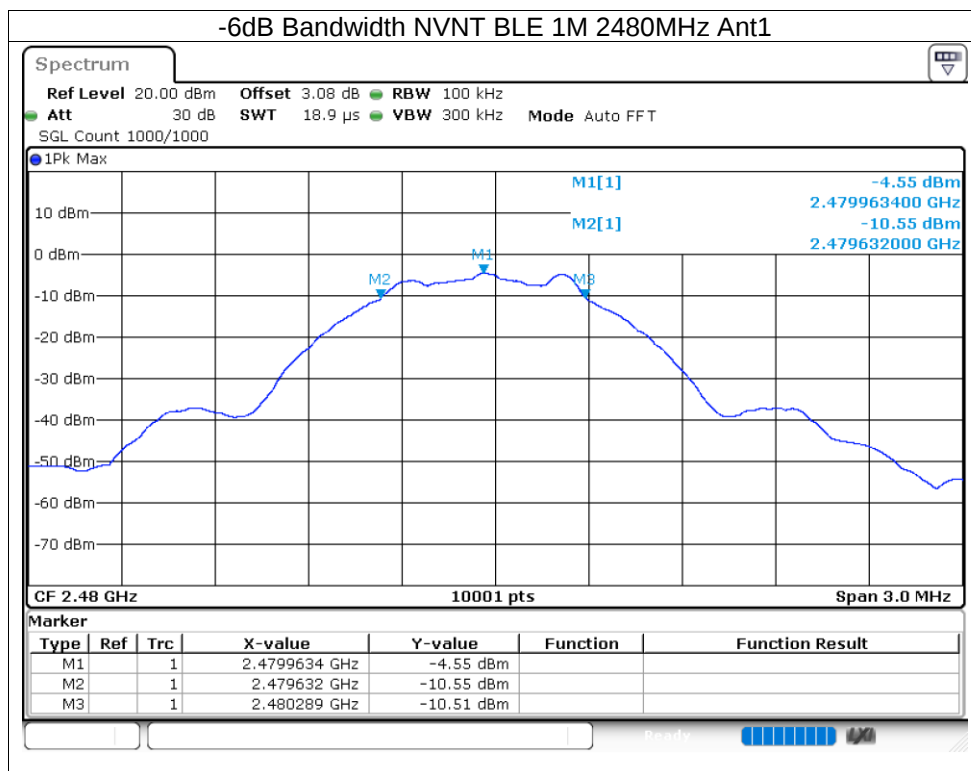




11.1.3 -6dB Bandwidth

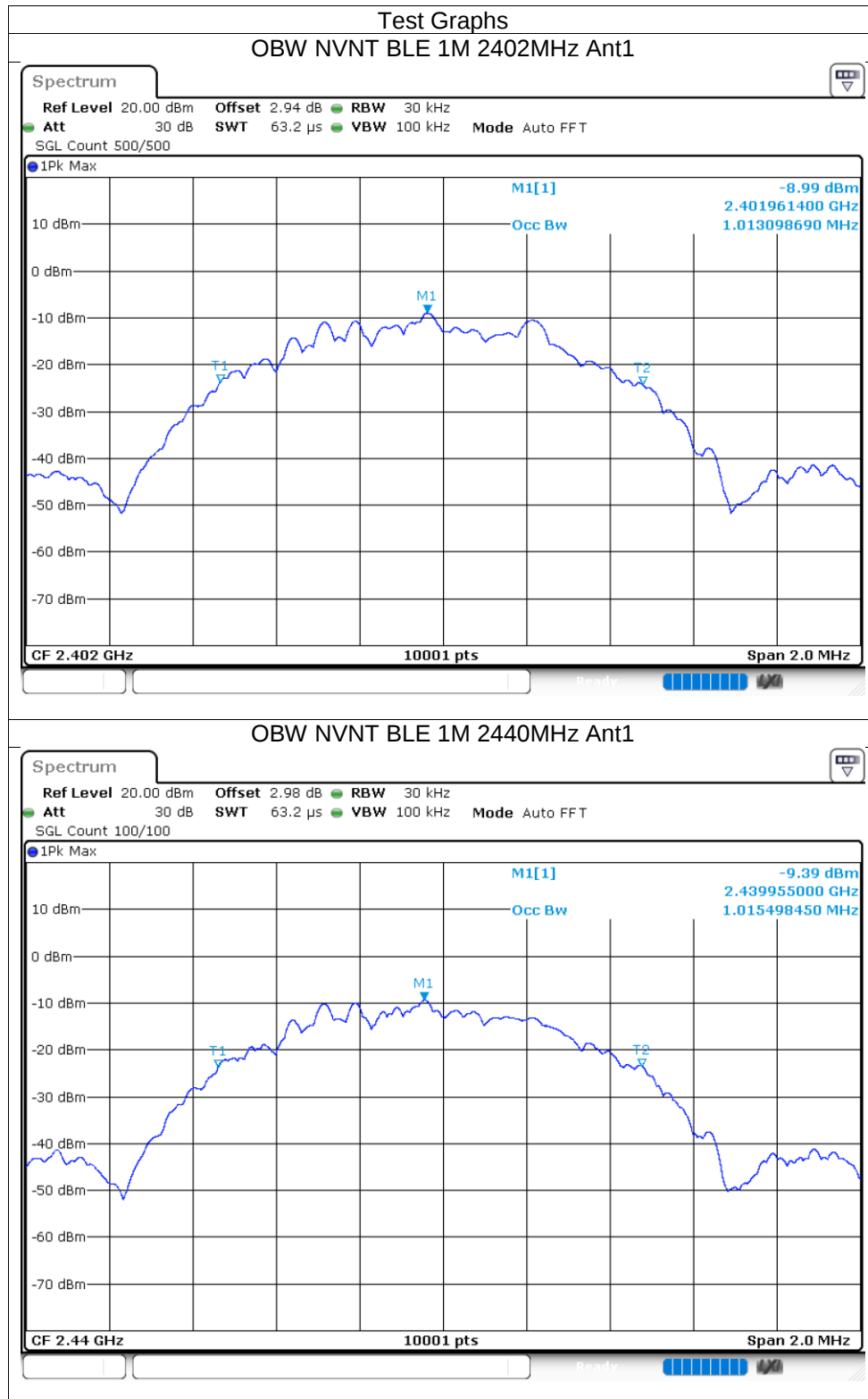
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.655	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.655	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.657	0.5	Pass

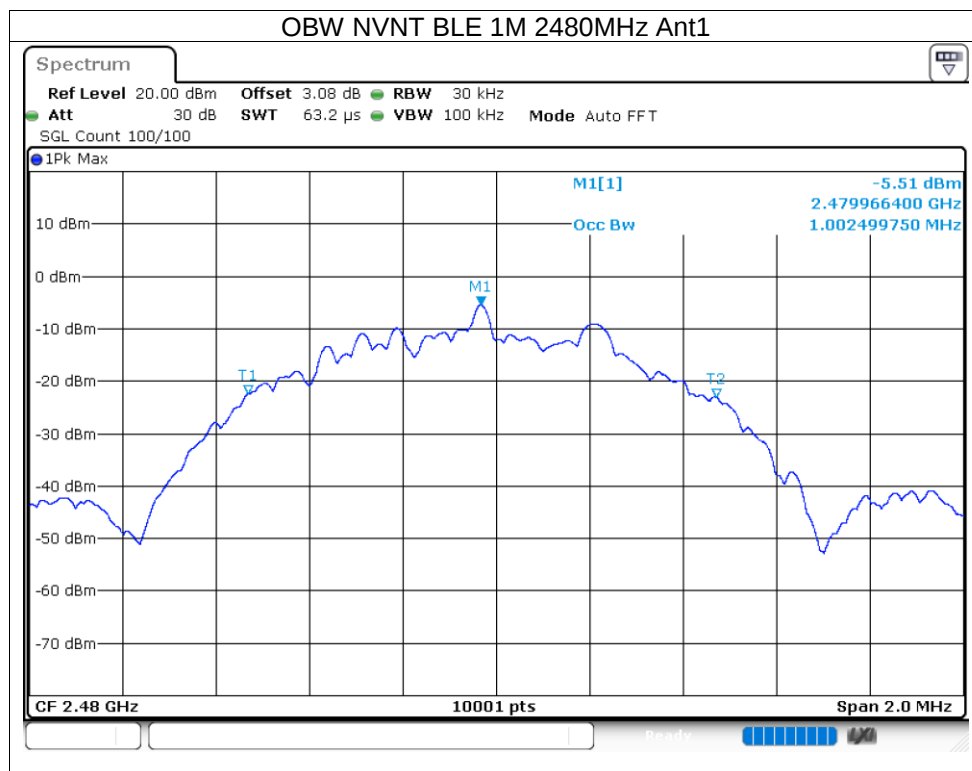




13.1.4 Occupied Channel Bandwidth

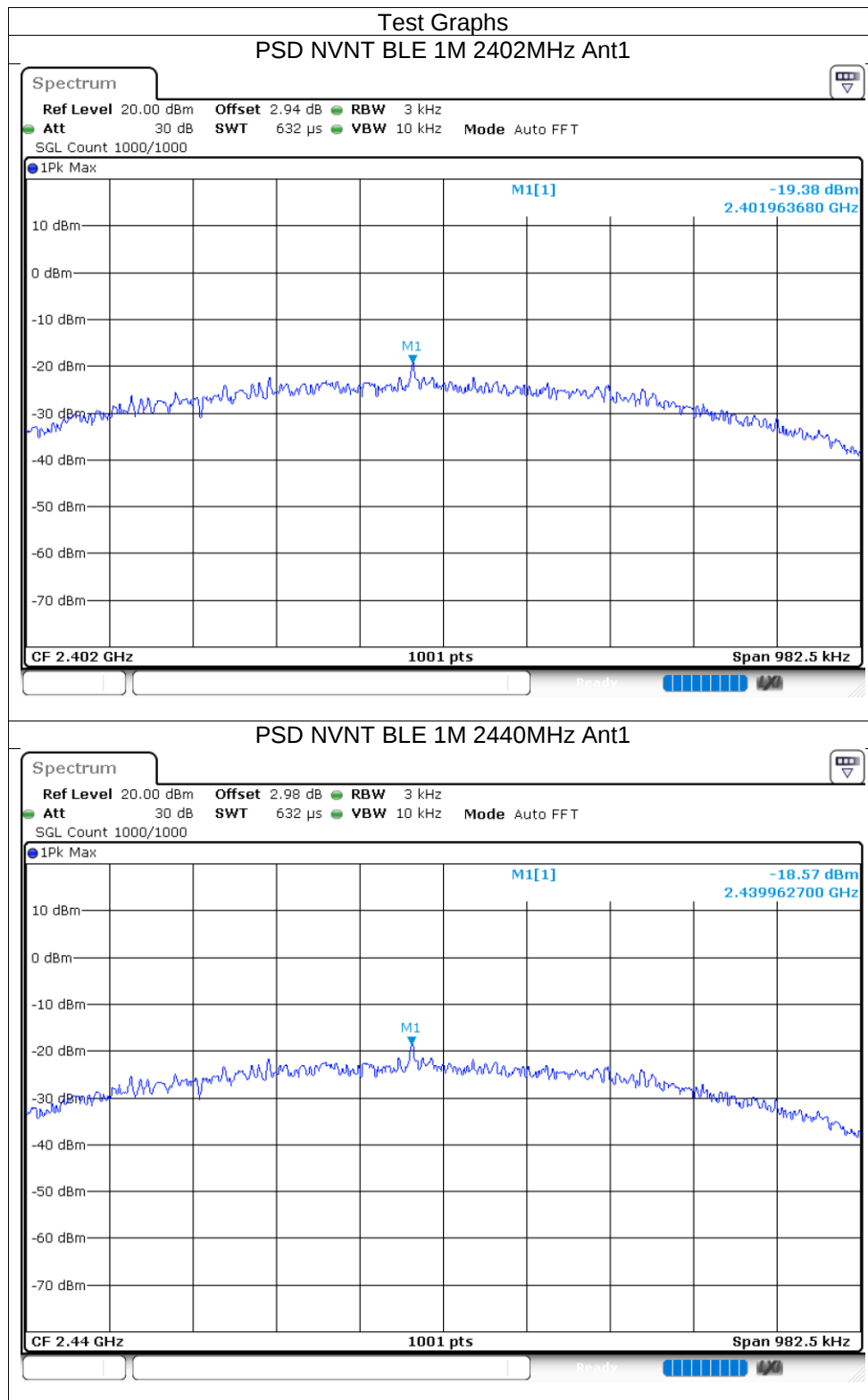
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.013
NVNT	BLE 1M	2440	Ant1	1.015
NVNT	BLE 1M	2480	Ant1	1.002

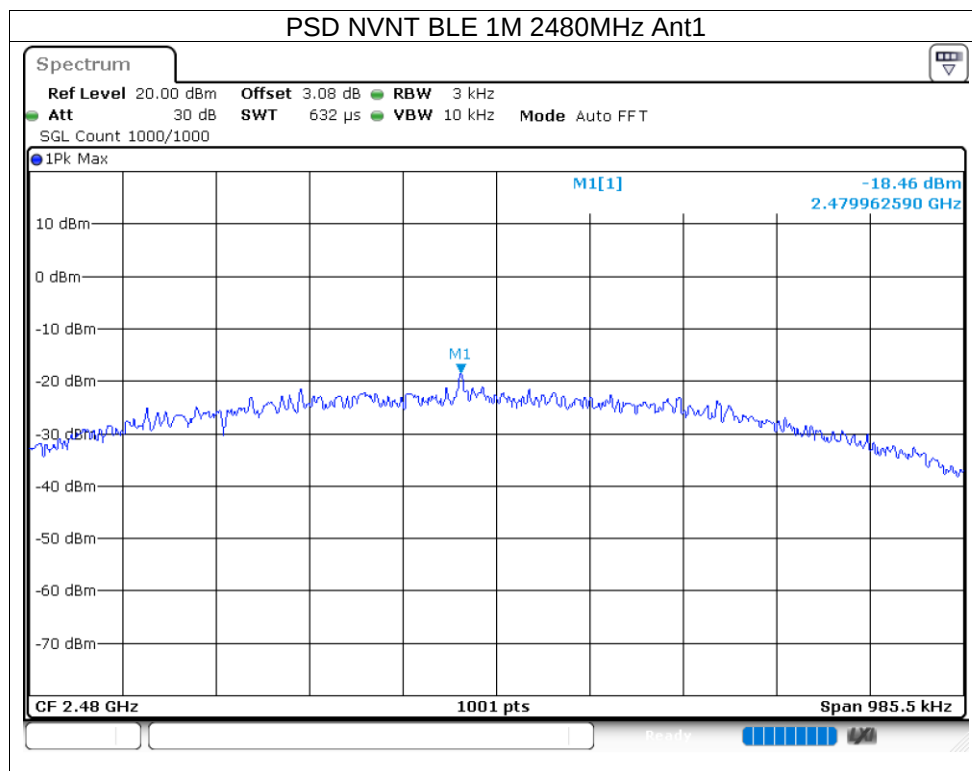




13.1.5 Maximum Power Spectral Density Level

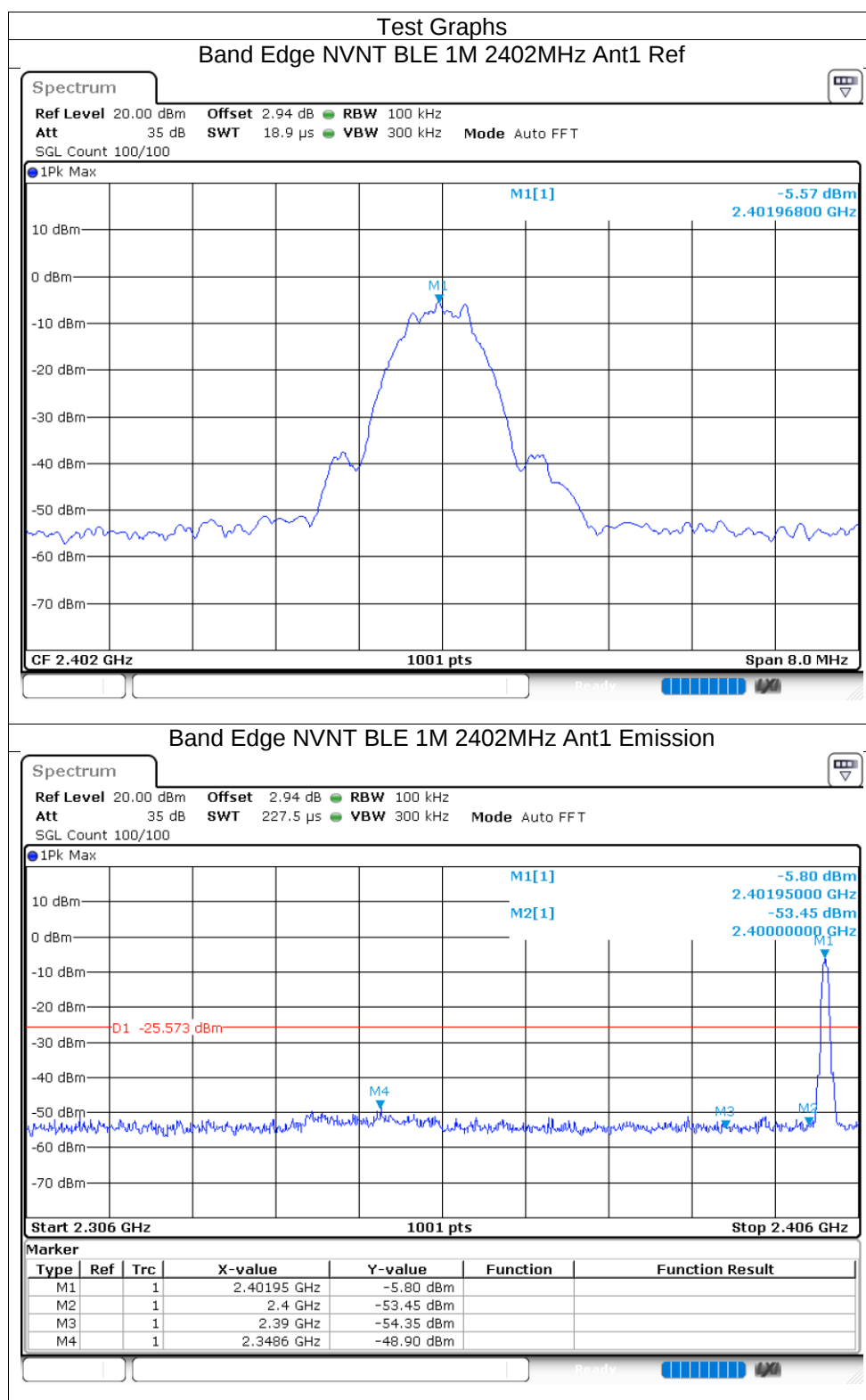
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-19.38	-19.38	8	Pass
NVNT	BLE 1M	2440	Ant1	-18.57	-18.57	8	Pass
NVNT	BLE 1M	2480	Ant1	-18.46	-18.46	8	Pass

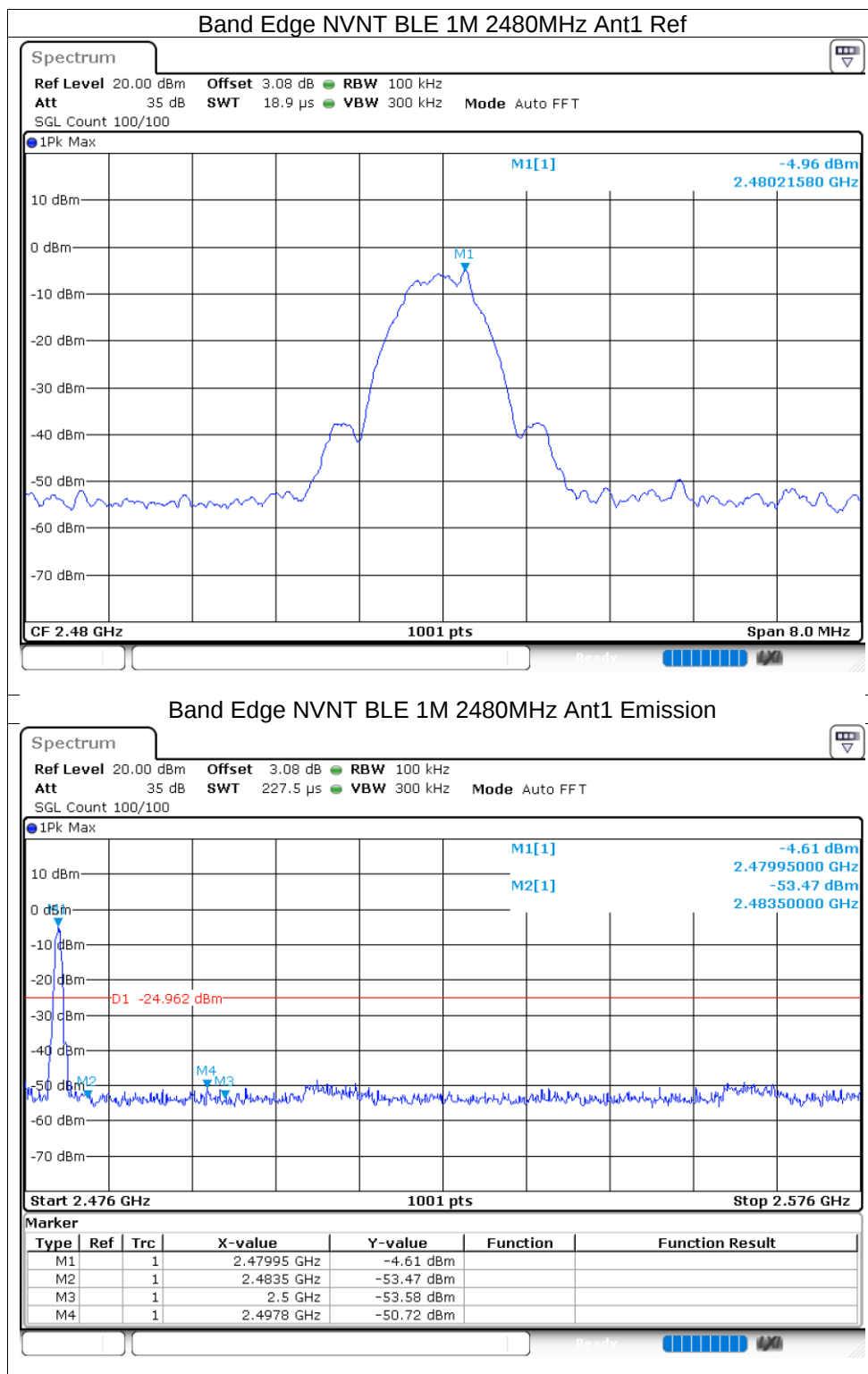




13.1.6 Band Edge

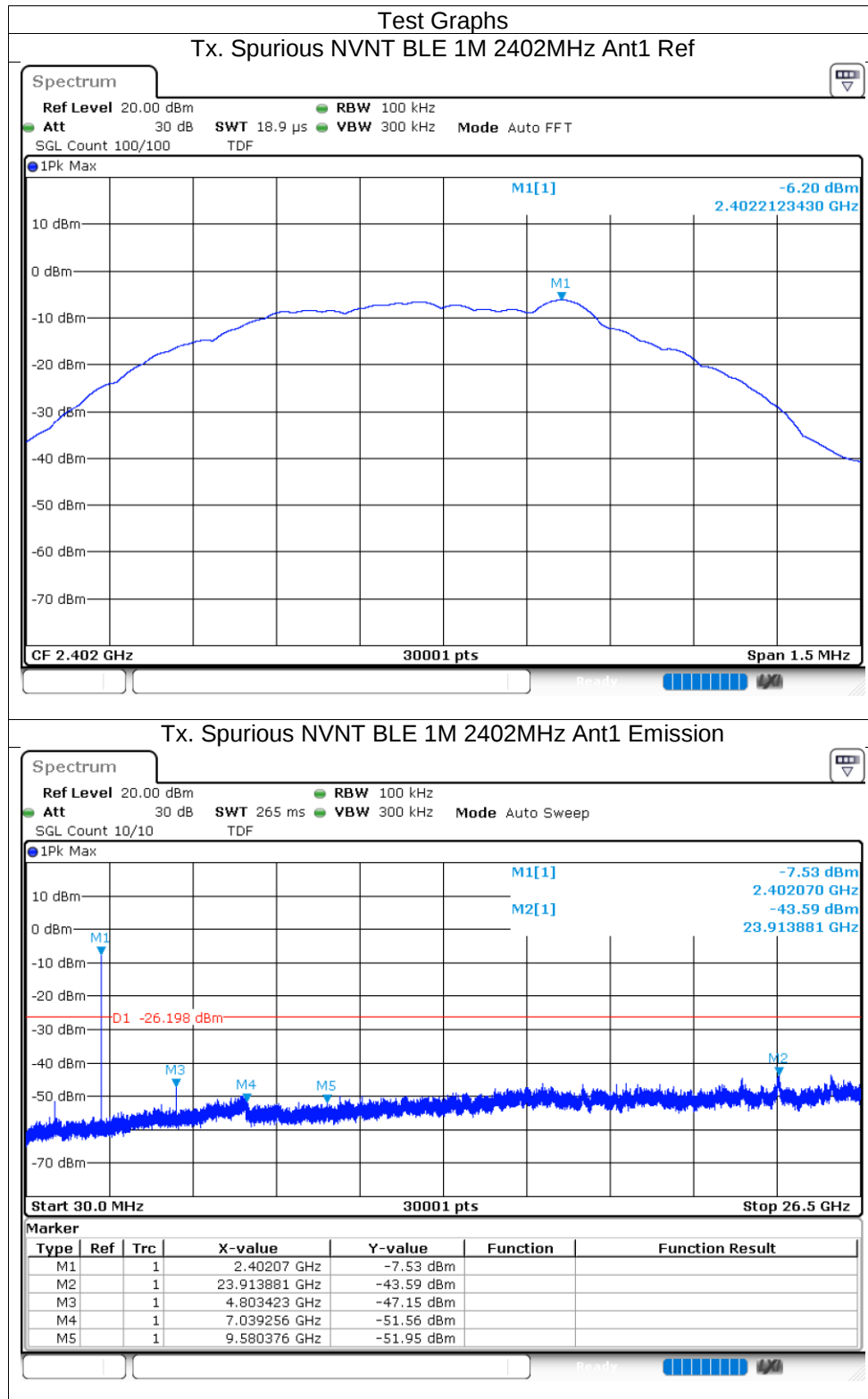
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-43.32	-20	Pass
NVNT	BLE 1M	2480	Ant1	-45.75	-20	Pass

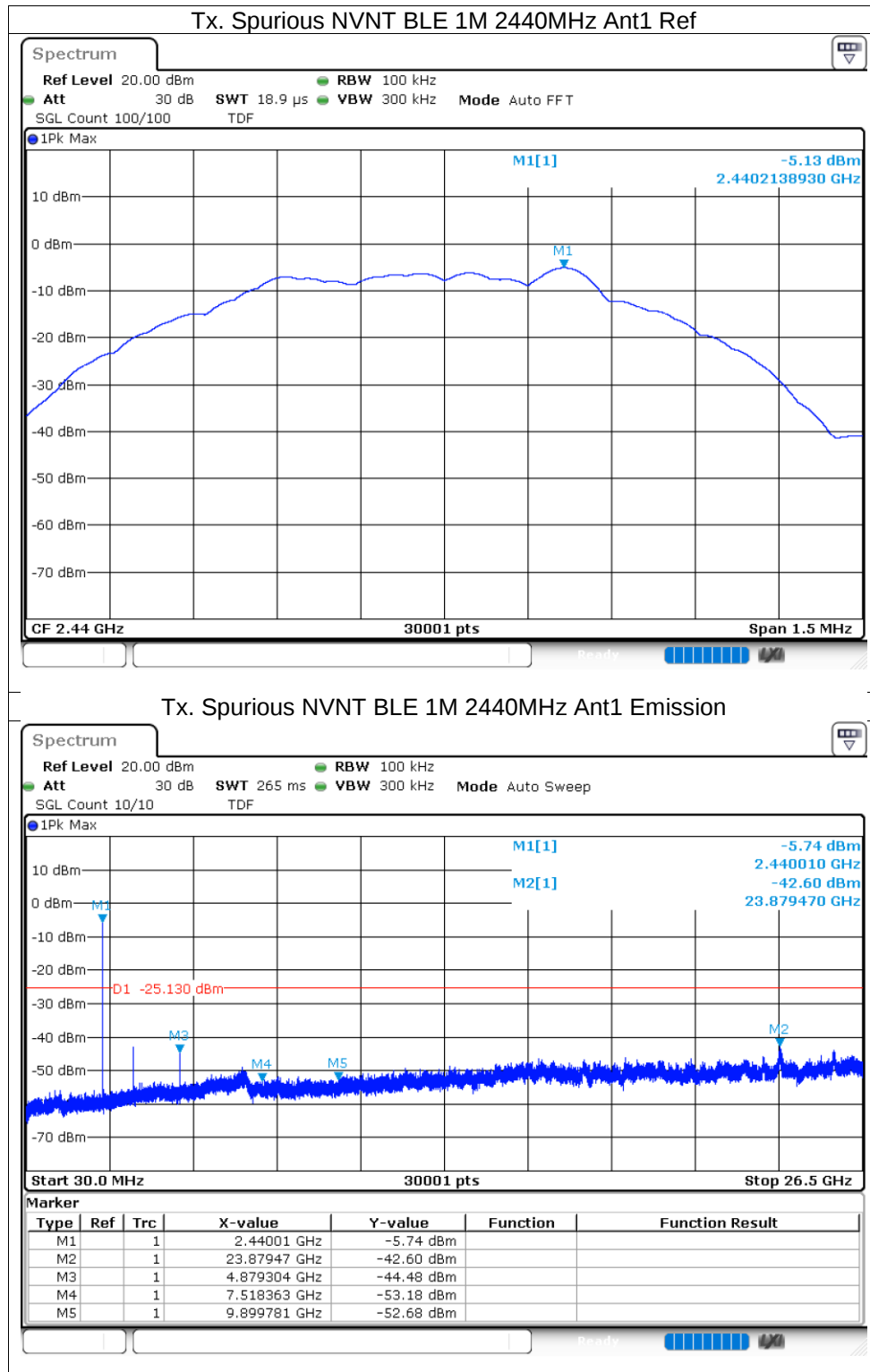


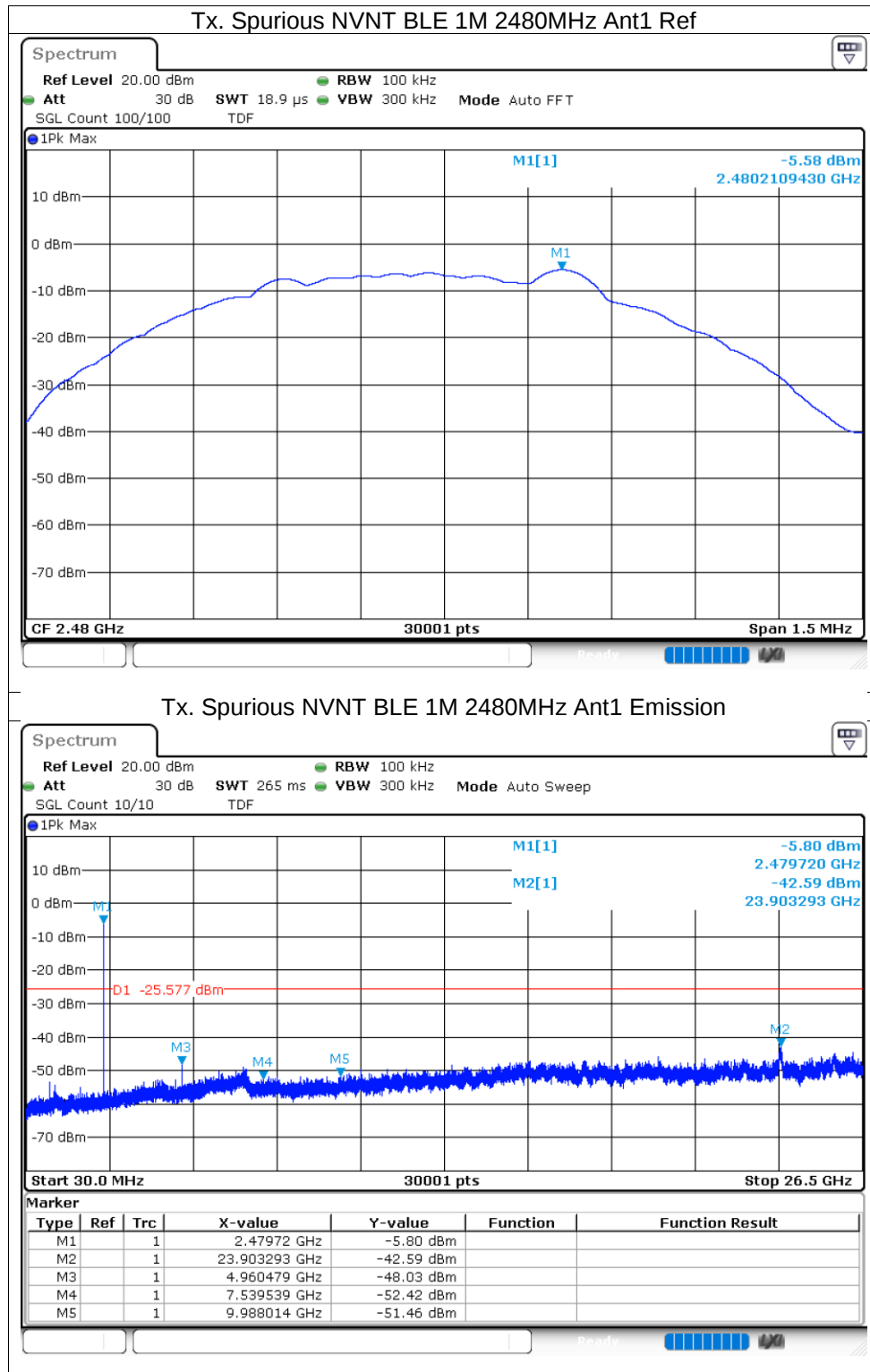


13.1.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-37.38	-20	Pass
NVNT	BLE 1M	2440	Ant1	-37.47	-20	Pass
NVNT	BLE 1M	2480	Ant1	-37.01	-20	Pass



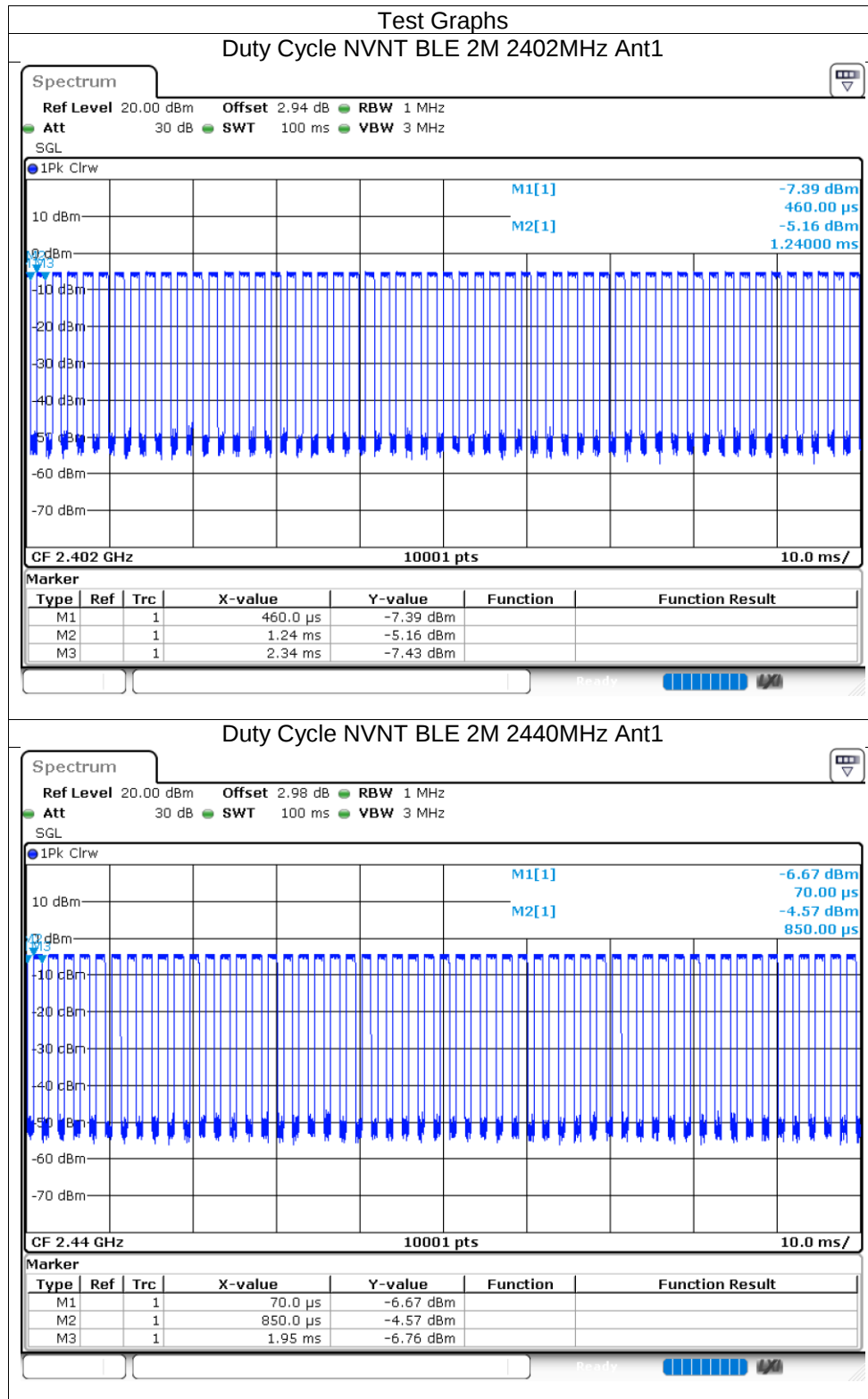


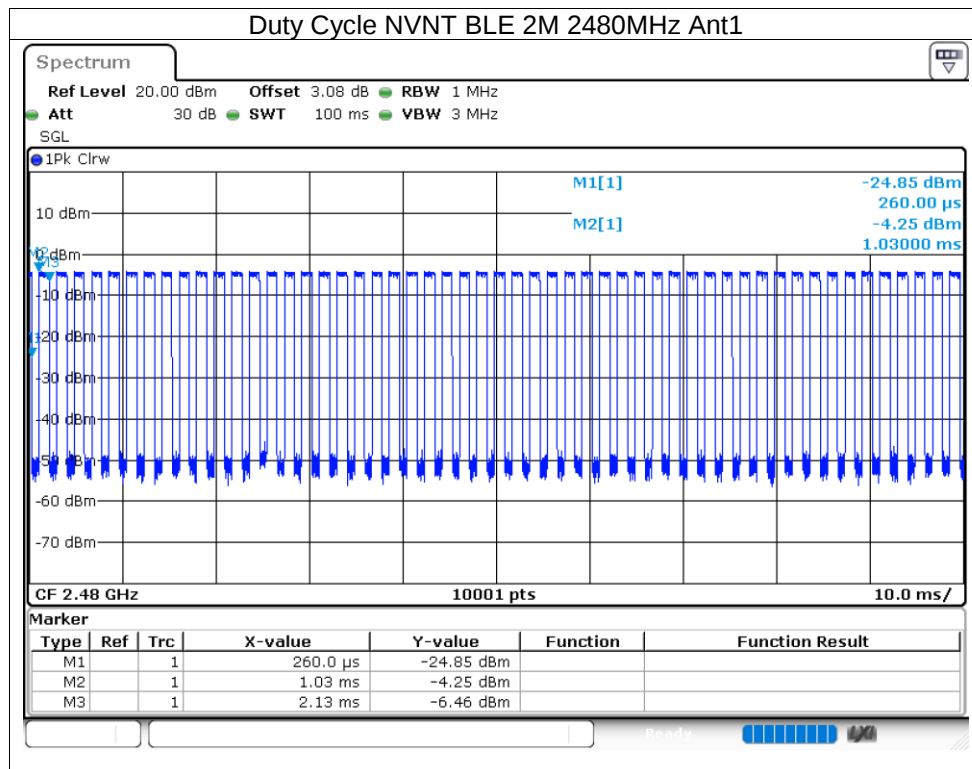


11.2 2M

13.2.1 Duty Cycle

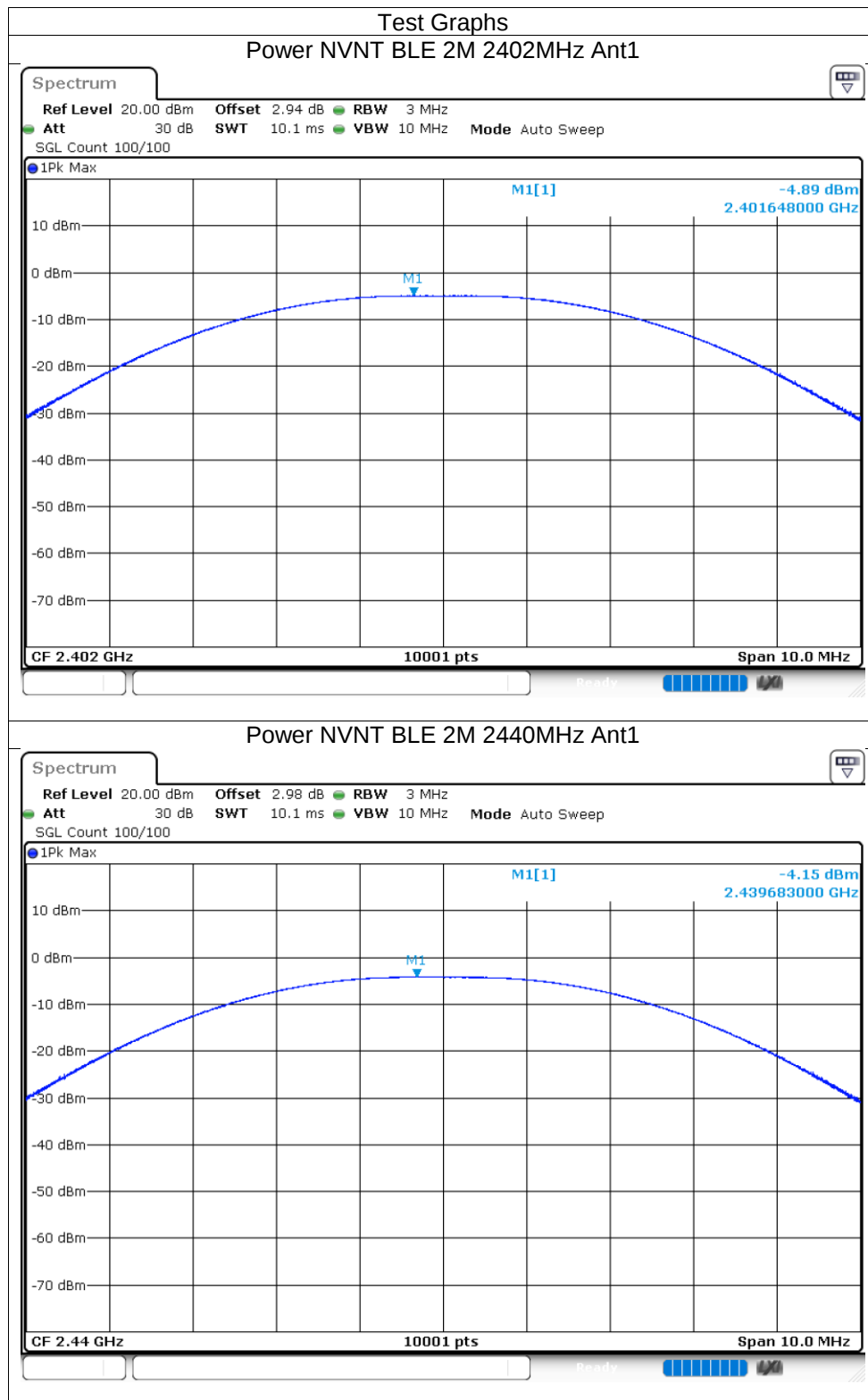
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 2M	2402	Ant1	59.29	2.27	0.91
NVNT	BLE 2M	2440	Ant1	58.9	2.3	0.91
NVNT	BLE 2M	2480	Ant1	59.22	2.28	0.91

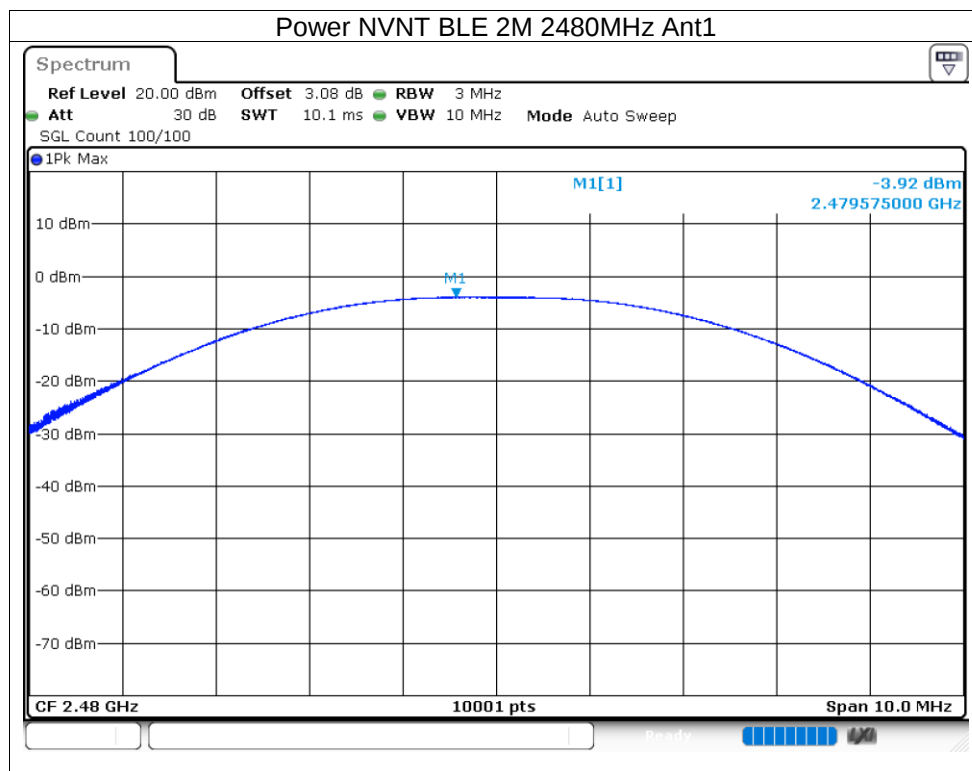




13.2.2 Maximum Conducted Output Power

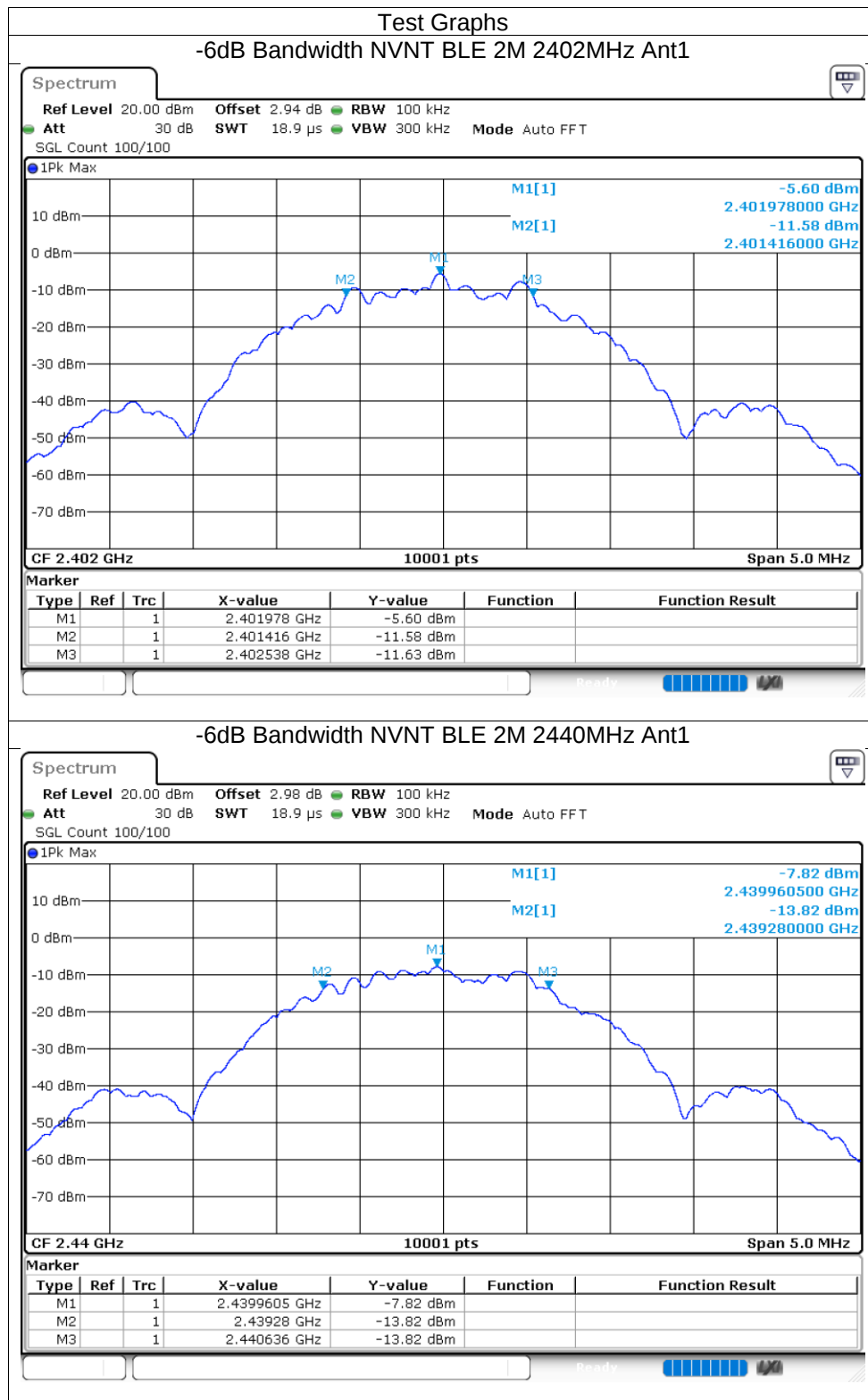
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-4.89	-4.89	30	Pass
NVNT	BLE 2M	2440	Ant1	-4.15	-4.15	30	Pass
NVNT	BLE 2M	2480	Ant1	-3.92	-3.92	30	Pass

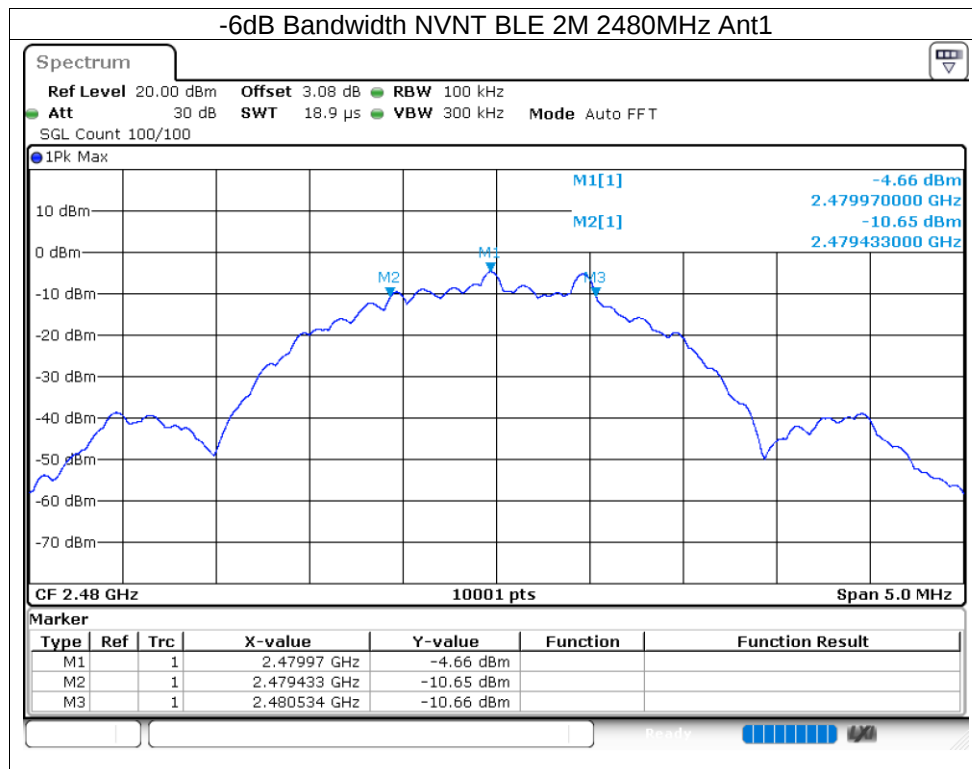




11.2.3-6dB Bandwidth

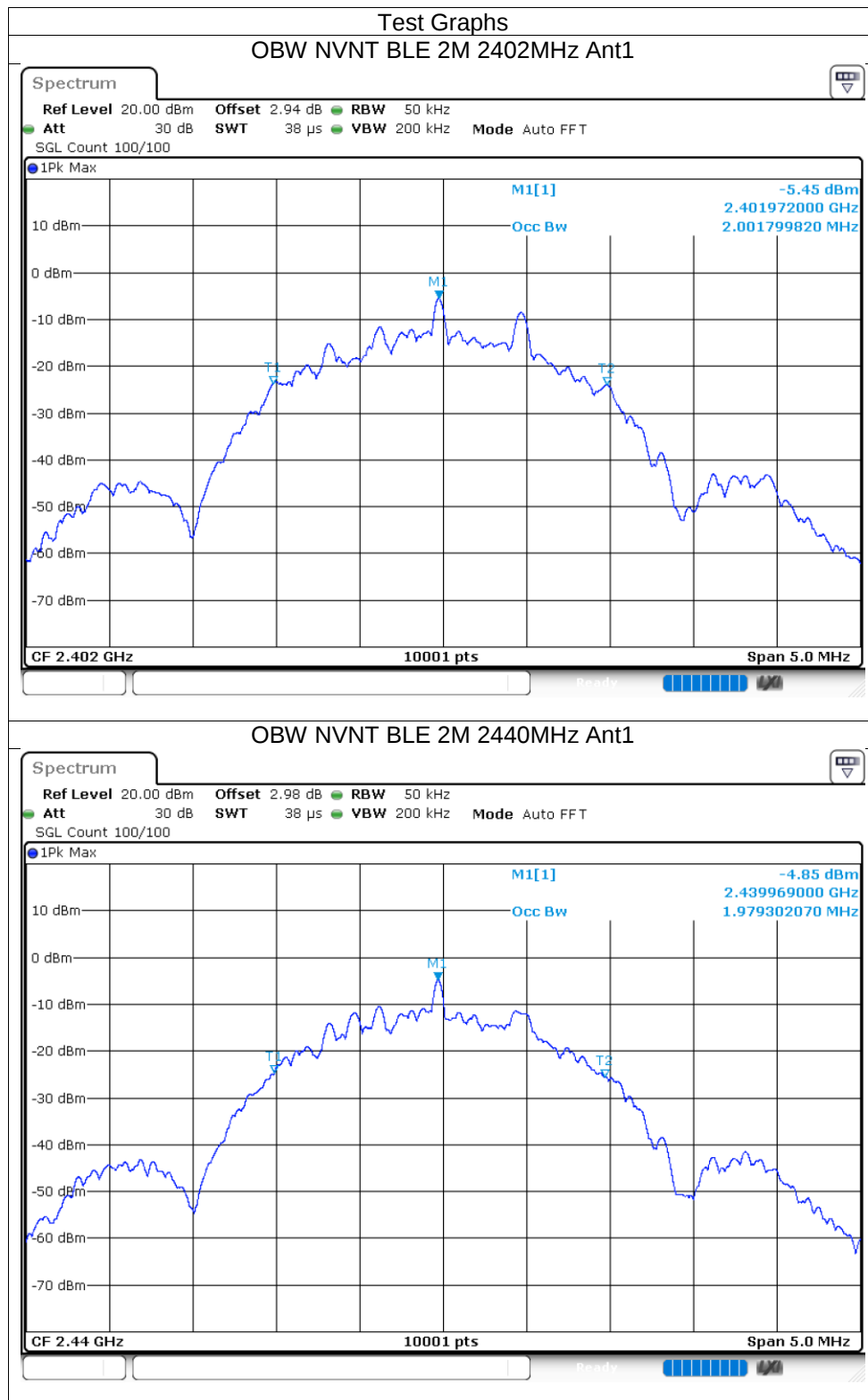
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	1.122	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.356	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.101	0.5	Pass

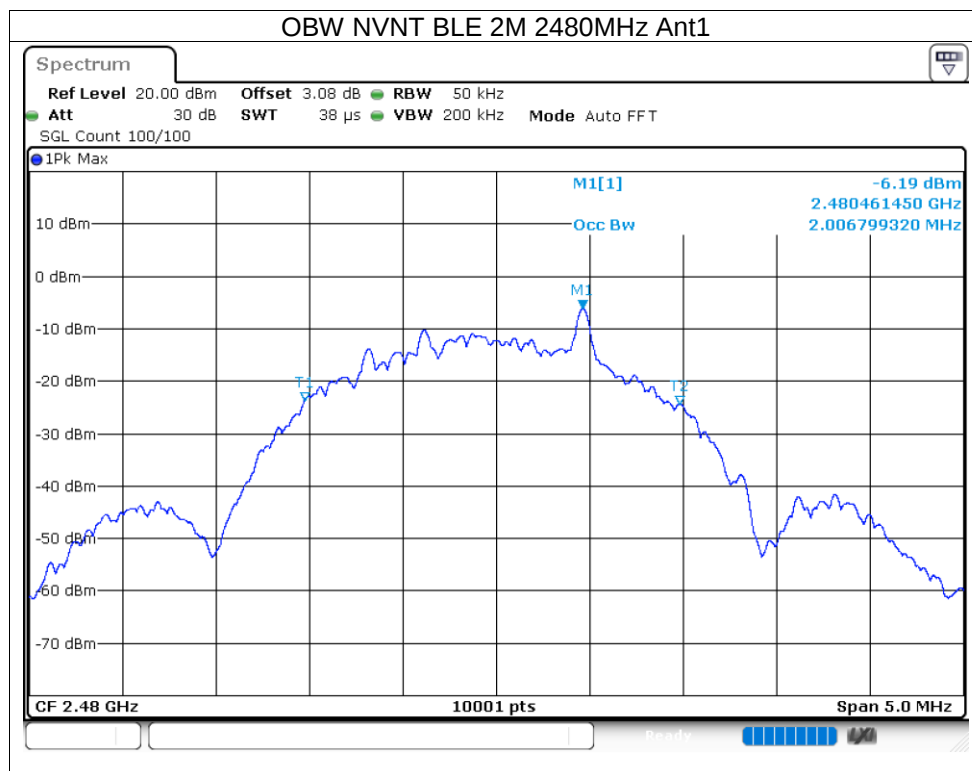




13.2.4 Occupied Channel Bandwidth

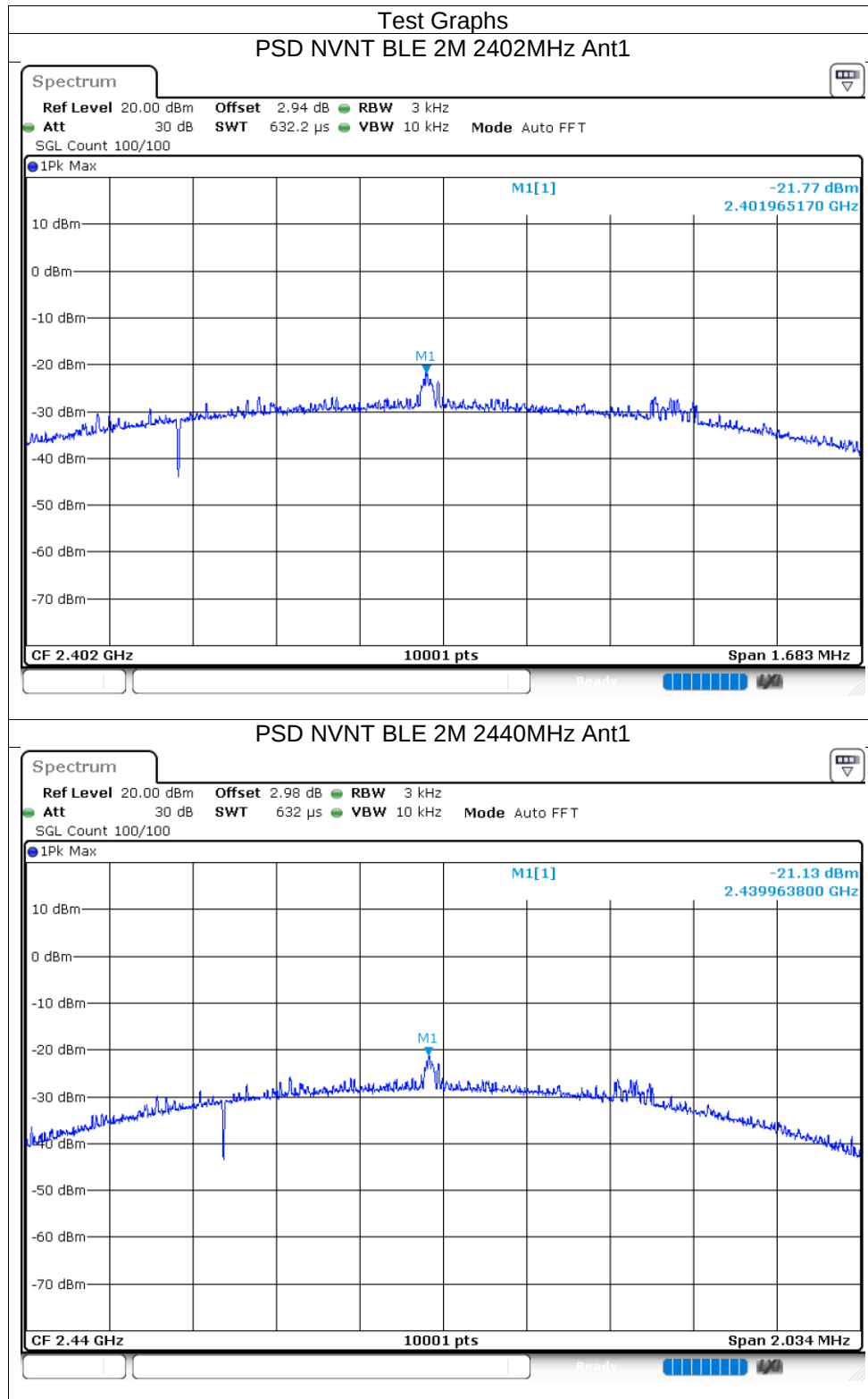
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 2M	2402	Ant1	2.002
NVNT	BLE 2M	2440	Ant1	1.979
NVNT	BLE 2M	2480	Ant1	2.007

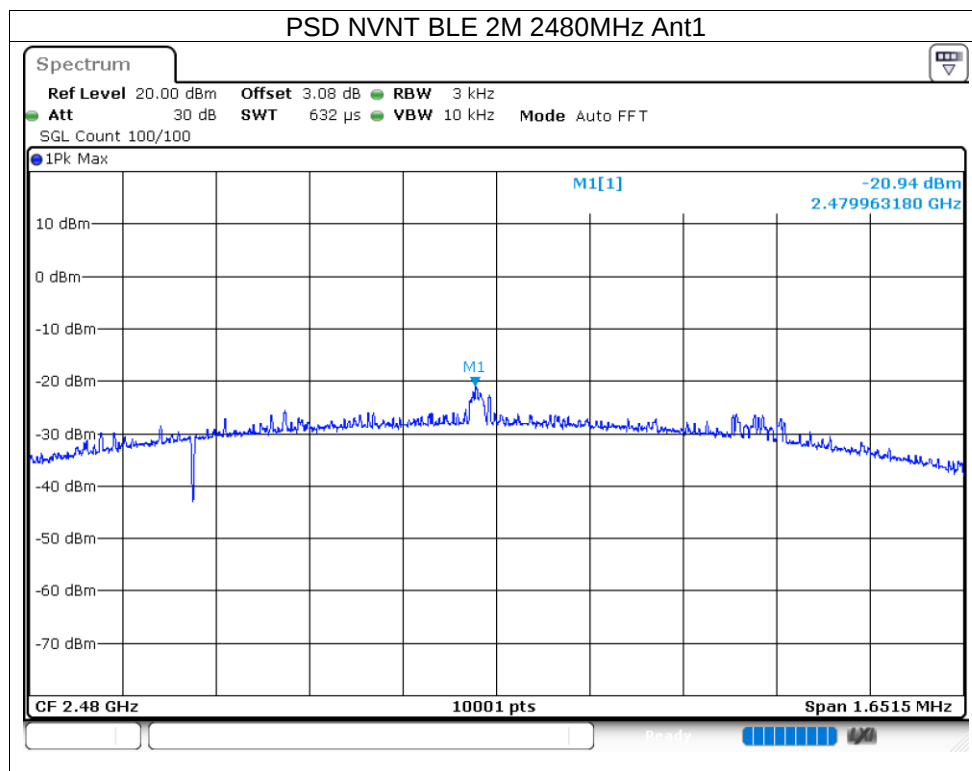




13.2.5 Maximum Power Spectral Density Level

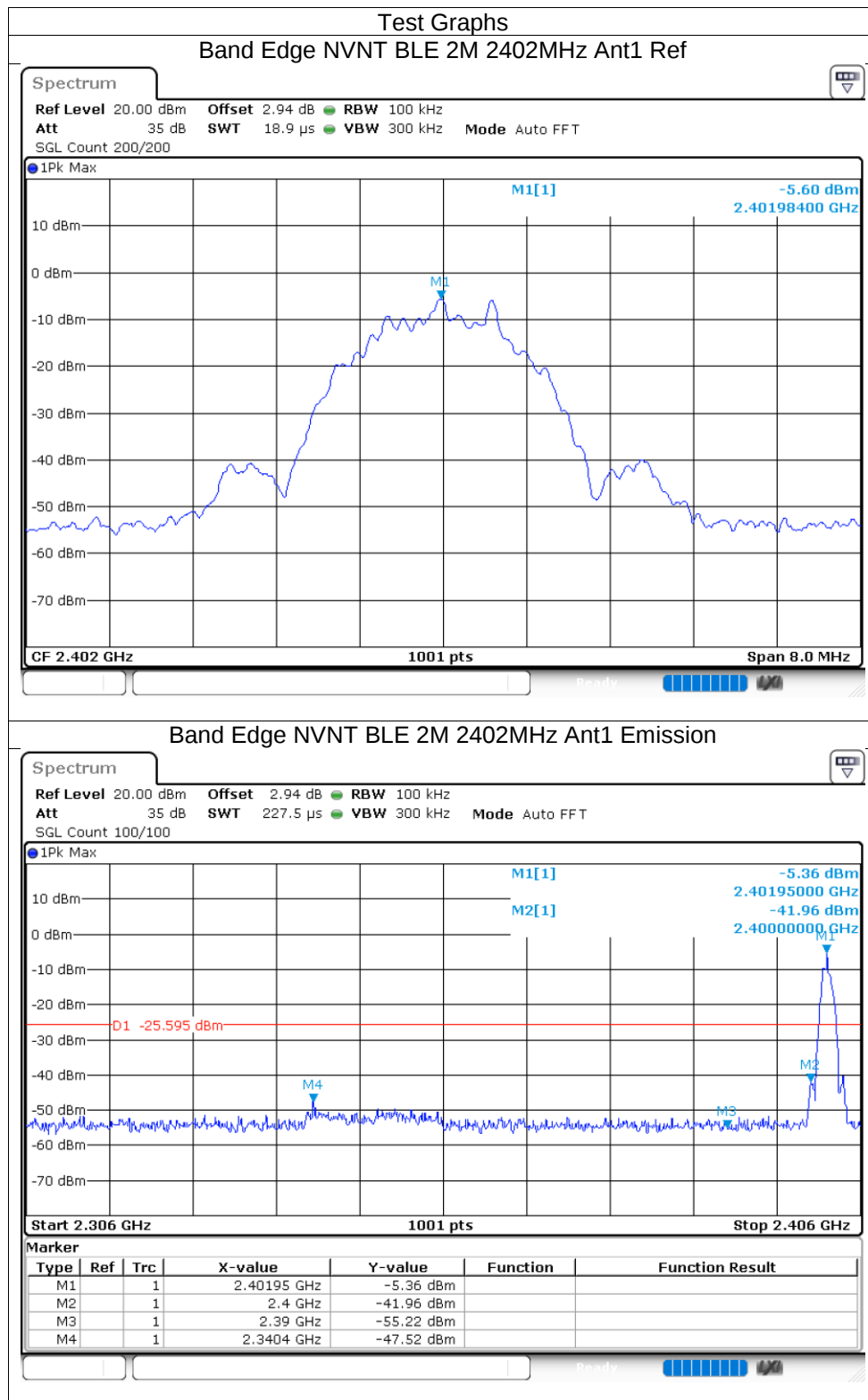
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-21.77	-21.77	8	Pass
NVNT	BLE 2M	2440	Ant1	-21.13	-21.13	8	Pass
NVNT	BLE 2M	2480	Ant1	-20.94	-20.94	8	Pass

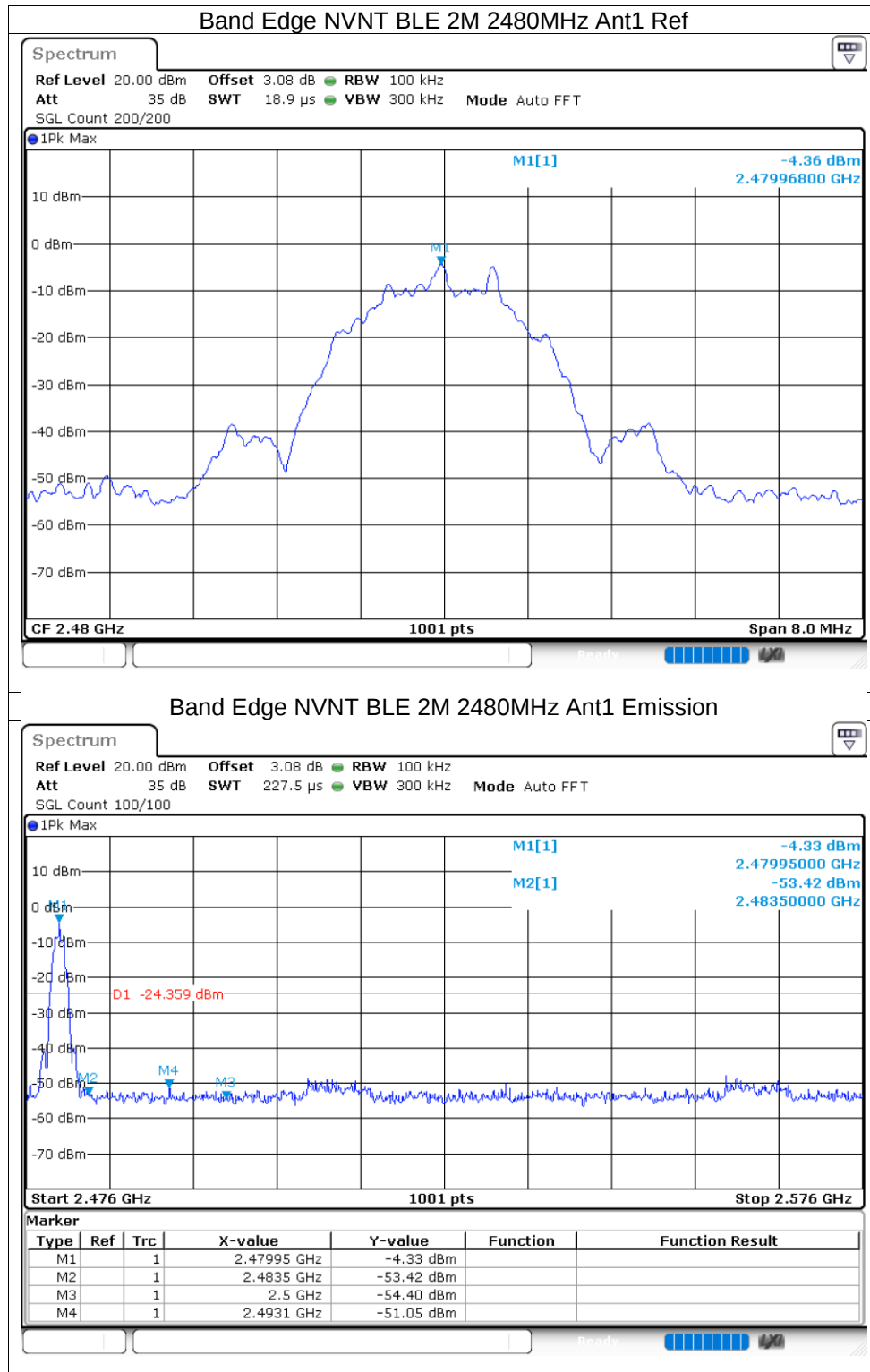




13.2.6 Band Edge

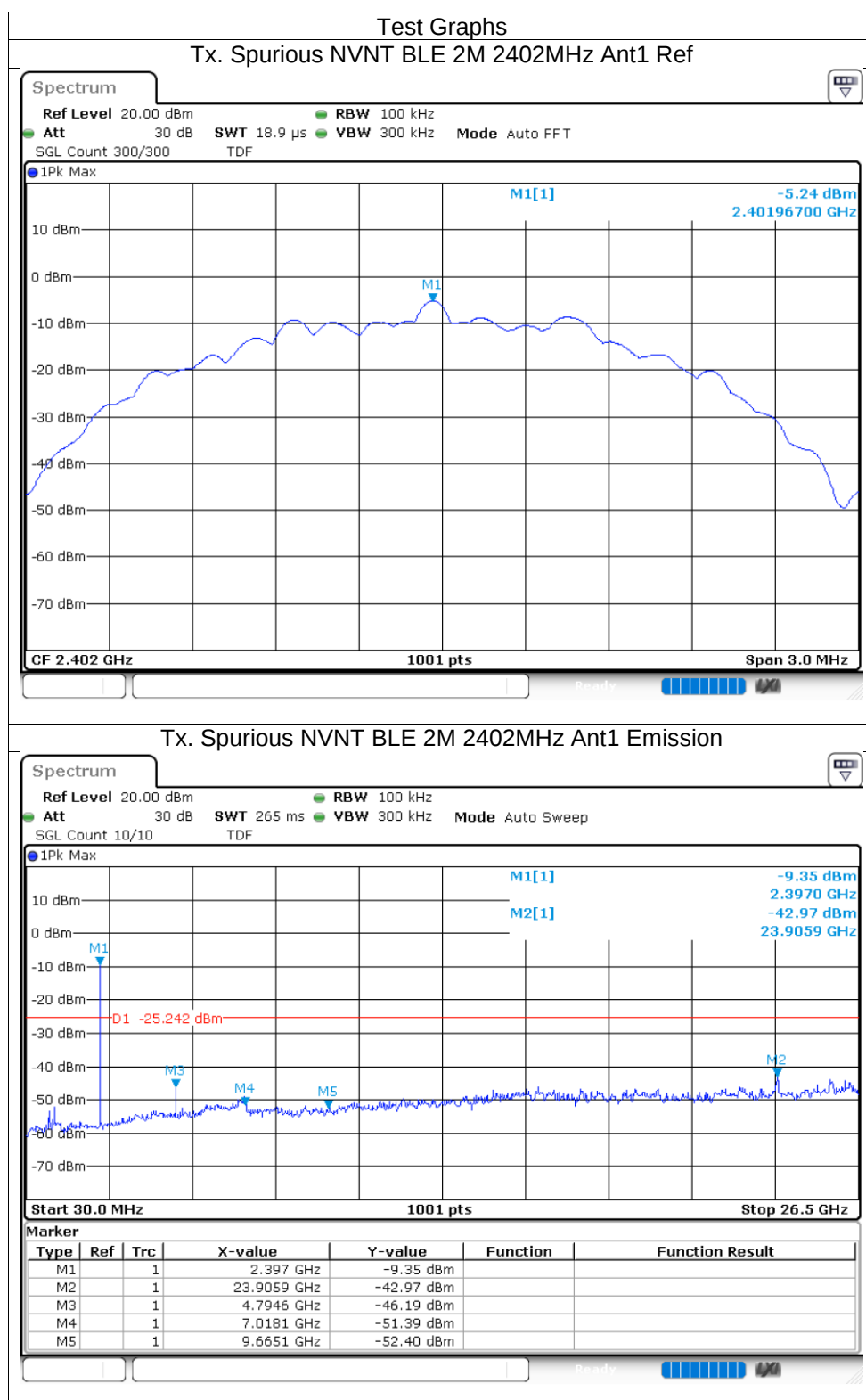
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-41.92	-20	Pass
NVNT	BLE 2M	2480	Ant1	-46.68	-20	Pass



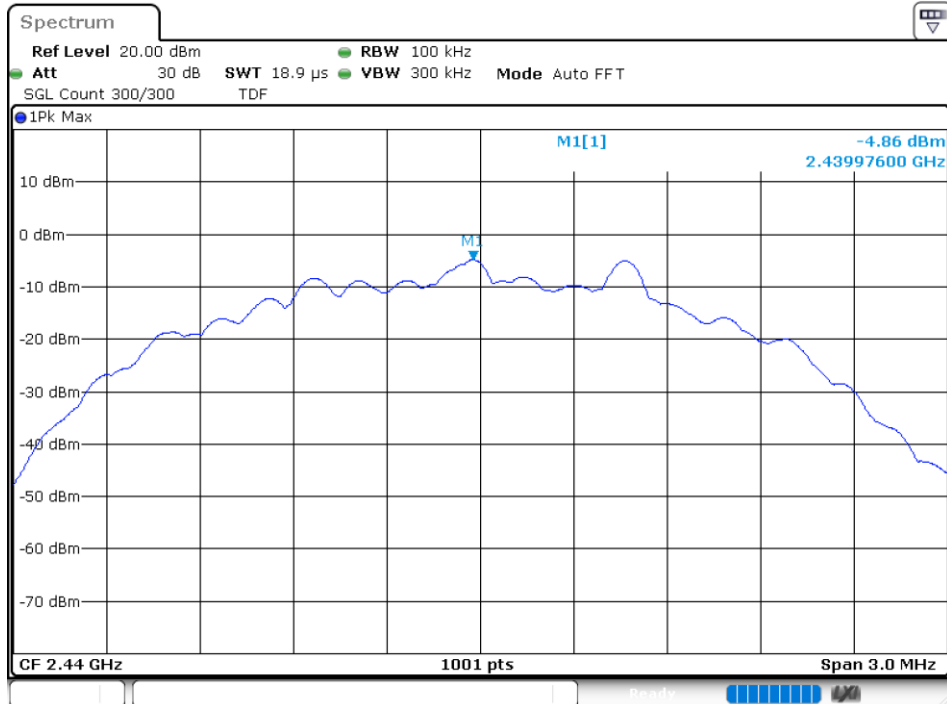


13.2.7 Conducted RF Spurious Emission

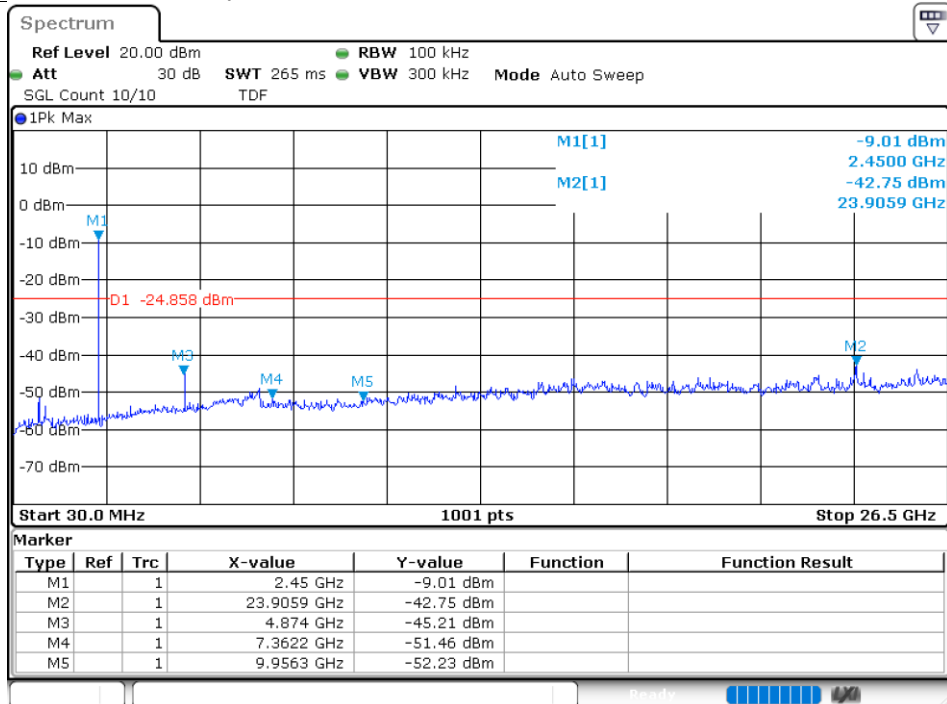
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-37.72	-20	Pass
NVNT	BLE 2M	2440	Ant1	-37.89	-20	Pass
NVNT	BLE 2M	2480	Ant1	-38.68	-20	Pass

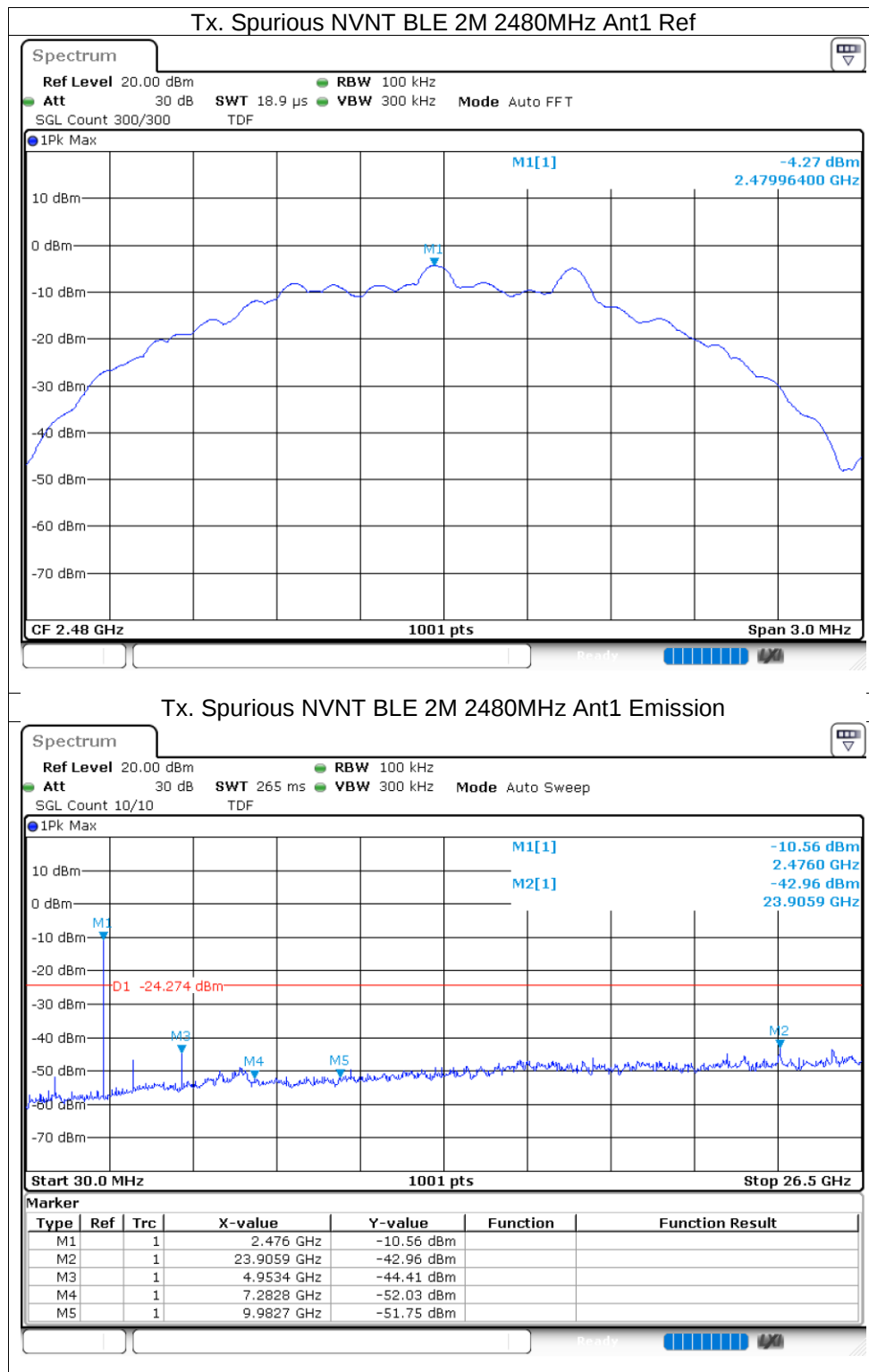


Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission





--- End of Report ---