

RF Test Report

For

Applicant name: Shenzhen Torras Technology Co., Ltd.
Address: RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China
EUT name: POWER BANK
Brand name: N/A
Model number: PB28
Series model number: N/A
FCC ID: 2AN4Y-PB28

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Report number: BTF251219R00701
Test standards: FCC CFR Title 47 Part 15 Subpart C
Test conclusion: Pass

Date of sample receipt: 2025-12-19
Test date: 2025-12-19 to 2026-01-15
Date of issue: 2026-01-19
Test by: Sean He
Sean He / Tester

Prepared by: Chris Liu
Chris Liu / Project engineer

Approved by



Ryan.C / EMC manager

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

Revision History		
Version	Issue date	Revisions content
R_V0	2026-01-19	Original

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Description:	All measurement facilities used to collect the measurement data are located at Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

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

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.3 Announcement

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

2 Product Information

2.1 Application Information

Company name:	Shenzhen Torras Technology Co., Ltd.
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China

2.2 Manufacturer Information

Company name:	Shenzhen Torras Technology Co., Ltd.
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China

2.3 Factory Information

Company name:	Shenzhen Torras Technology Co., Ltd.
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China

2.4 General Description of Equipment under Test (EUT)

EUT name	POWER BANK
Under test model name	PB28
Series model name	N/A
Description of model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Rating:	USB-C Input: 5.0V $\leq$ 3.0A, 9.0V $\leq$ 3.0A, 15.0V $\leq$ 2.0A USB-C Output: 5.0V $\leq$ 2.0A, 9.0V $\leq$ 3.0A, 10.0V $\leq$ 2.25A, 15.0V $\leq$ 2.0A USB-C Wireless Charging Output:15W Max USB-C + Wireless Charging Output:15W Max Output Power: 30W Lithium Battery Energy: 5000mAh 7.84V 39.2Wh Rated Capacity: 6000mAh(5.0V $\leq$ 2.0A)

2.5 Technical Information

Operation frequency:	110.1kHz ~ 205kHz, 300kHz ~ 400kHz
Modulation technology:	ASK
Antenna type:	Coil Antenna

3 Test Information

3.1 Test Standards

Identity	Document Title
FCC CFR Title 47 Part 15 Subpart C	Intentional Radiators
ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Summary of Test

Clauses	Test Items	Result
Part 15.203	Antenna Requirement	PASS
47 CFR 15.207	AC Power Line Conducted Emission	PASS
47 CFR 15.215	20dB Bandwidth	PASS
47 CFR 15.209	Field Strength of Fundamental	PASS
47 CFR 15.209	Field Strength of Spurious Emissions	PASS
Remark: 1. Pass: met the requirements. 2. N/A: not applicable.		

3.3 Uncertainty of Test

Measurement	Value
Occupied Channel Bandwidth	±5 %
Conducted Emission for LISN (9kHz ~ 150kHz)	±2.97 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.45 dB
Radiated Emission (9kHz ~ 30MHz)	±2.20 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.80 dB
Radiated Emission (1GHz ~ 18GHz)	±4.82dB
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3.4 Additions to, deviations, or exclusions from the method

None

3.5 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description
Phone	HONOR	PGT-AN10	/	/	/

3.6 Test Equipment List

Conducted Emission at AC power line					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI3	101422	2025/10/17	2026/10/16
V-LISN	Schwarzbeck	NSLK 8127	01073	2025/8/23	2026/8/22
Coaxial Switcher	Schwarzbeck	CX210	CX210	/	/
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	/	/
Test Software	Frad	EZ_EMC	Version: EMC-CON 3A1.1+	/	/

20dB Occupied Bandwidth					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020A	MY50410020	2025/10/17	2026/10/16

Emissions in frequency bands (below 30MHz) Emissions in frequency bands (30MHz - 1GHz)					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI7	101032	2025/10/17	2026/10/16
Signal Analyzer	Rohde & Schwarz	FSQ40	100010	2025/10/17	2026/10/16
Log periodic antenna	Schwarzbeck	VULB 9168	01328	2025/10/18	2026/10/17
Preamplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9744	00246	2025/5/26	2026/5/25
Loop Antenna	SCHWARZBECK	FMZB 1519 B	00059	2025/06/25	2027/06/24
Test Software	Frad	EZ_EMC	Version: FA-03A2 RE+	/	/

4 Test Configuration

4.1 Environment Condition

Selected Values During Tests		
Temperature	Relative Humidity	Ambient Pressure
Normal: +0°C to -45°C Extreme: -0°C to +45°C	20% to 75%	86 kPa to 106 kPa

4.2 Test mode

No.	Test Modes	
TM1	EUT stand alone, standby.powered by AC input.	
TM2	Direct contact during/operating between the EUT& Mobile phone is powered.	Using a mobile phone load (Battery Status:99%)
TM3		Using a mobile phone load (Battery Status:50%)
TM4		Using a mobile phone load (Battery Status:1%)
Remark: Per-scan all kind of data rate, and report only reflects the test data of worst data rate mode.		

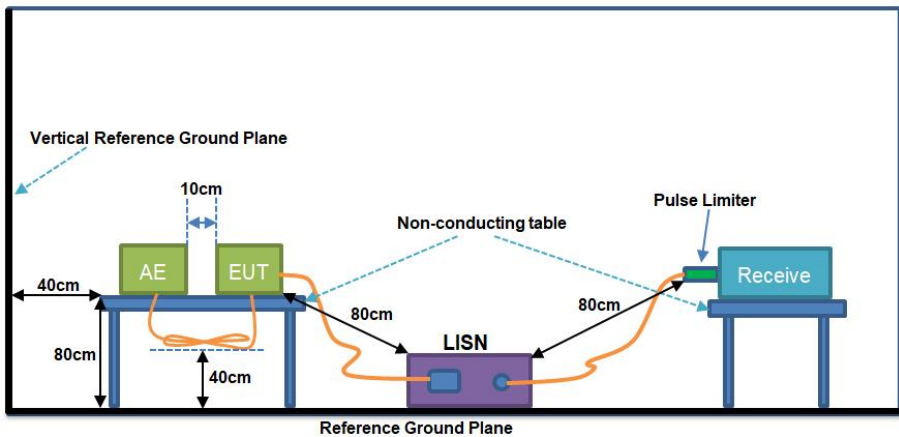
Clauses	Test Items	Test mode
Part 15.203	Antenna Requirement	N/A
47 CFR 15.207	AC Power Line Conducted Emission	TM1
47 CFR 15.215	20dB Bandwidth	TM4
47 CFR 15.209	Field Strength of Fundamental	TM1, TM4
47 CFR 15.209	Field Strength of Spurious Emissions	TM1, TM4

5 Technical requirements specification

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
The antenna is a permanently fixed coil antenna and meets the standard requirements, and the best case gain of the antenna is 0 dBi. Please refer to the EUT photos for the antenna.	

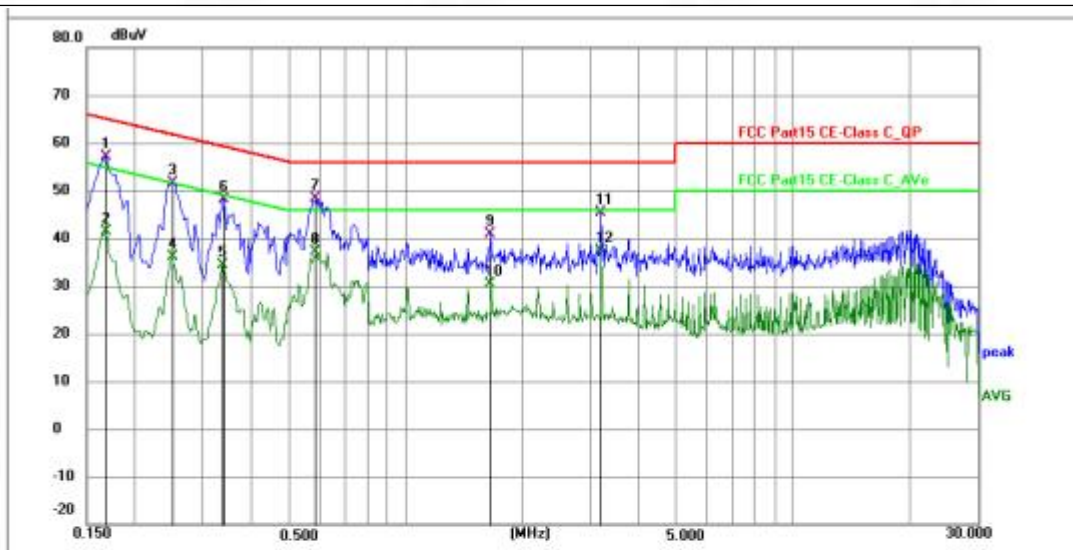
5.2 Conducted Emission at AC power line

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 μH/50 ohms line impedance stabilization network (LISN).		
Test Method:	ANSI C63.10-2020 section 6.2		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBμV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
*Decreases with the logarithm of the frequency.			
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
Test Setup:			
Operating Environment:			
Temperature:	24.3 °C		
Humidity:	49.7 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	AC 120V 60Hz		

5.2.1 Test Data

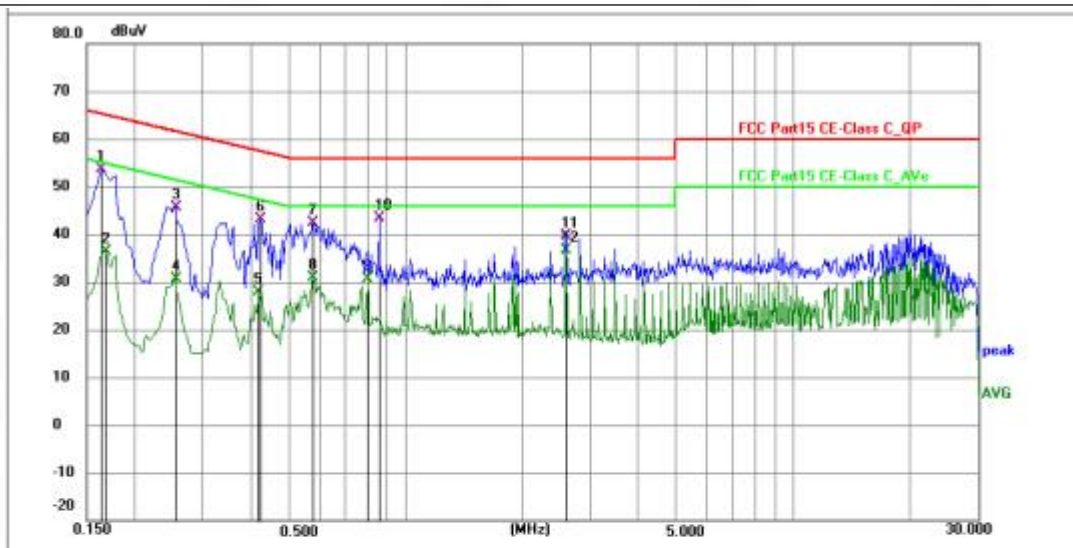
Remark: The report only reflects the test data of worst mode.

TM4 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1680	46.91	10.21	57.12	65.06	-7.94	QP	P	
2	0.1680	31.13	10.21	41.34	55.06	-13.72	AVG	P	
3	0.2490	41.60	10.06	51.66	61.79	-10.13	QP	P	
4	0.2490	26.15	10.06	36.21	51.79	-15.58	AVG	P	
5	0.3345	24.24	10.13	34.37	49.34	-14.97	AVG	P	
6	0.3390	38.03	10.13	48.16	59.23	-11.07	QP	P	
7 *	0.5865	38.22	10.13	48.35	56.00	-7.65	QP	P	
8	0.5865	26.88	10.13	37.01	46.00	-8.99	AVG	P	
9	1.6620	30.61	10.25	40.86	56.00	-15.14	QP	P	
10	1.6620	20.10	10.25	30.35	46.00	-15.65	AVG	P	
11	3.2053	35.11	10.23	45.34	56.00	-10.66	QP	P	
12	3.2053	27.13	10.23	37.36	46.00	-8.64	AVG	P	

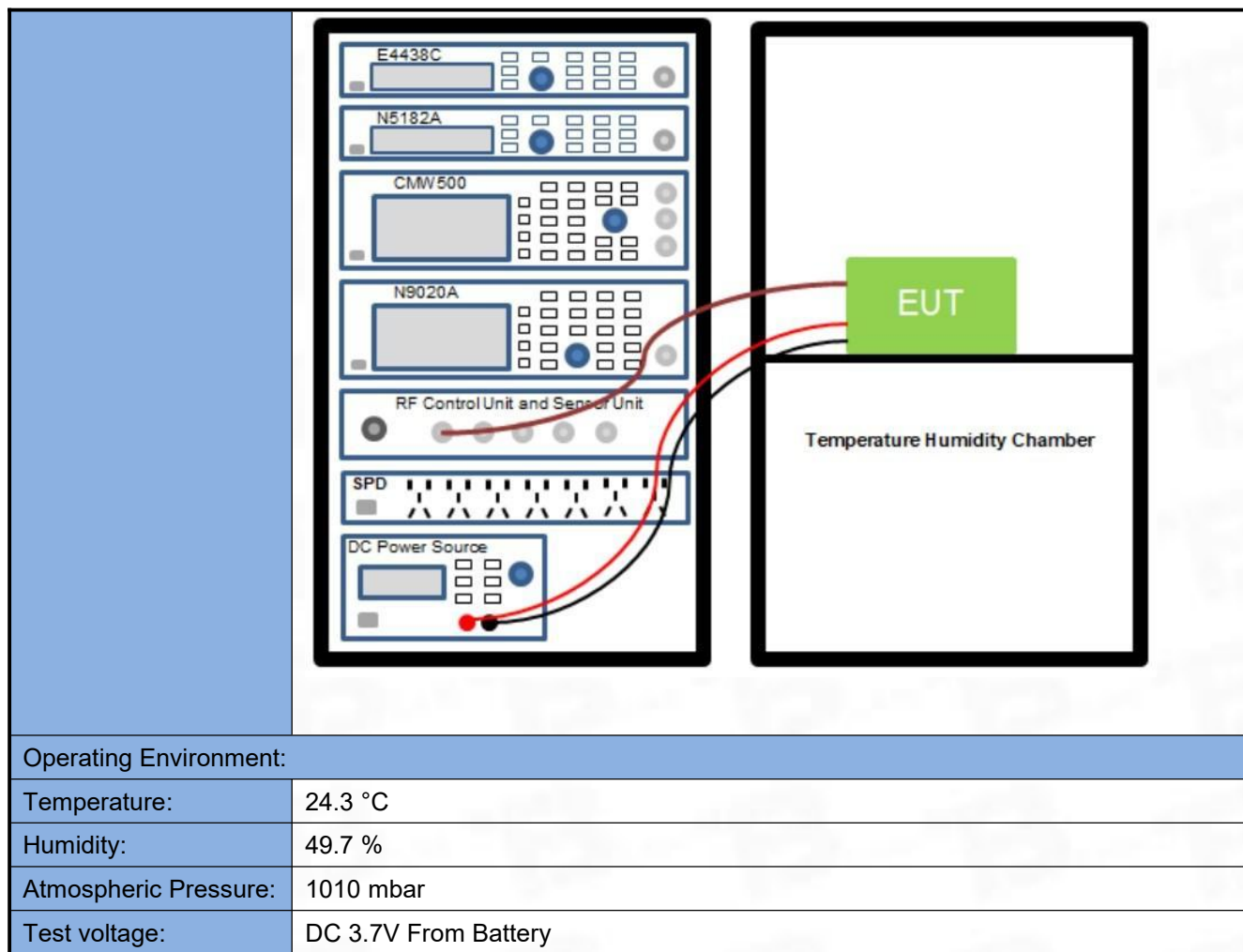
TM4 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1635	43.49	10.11	53.60	65.28	-11.68	QP	P	
2	0.1680	26.26	10.11	36.37	55.06	-18.69	AVG	P	
3	0.2535	35.45	10.12	45.57	61.64	-16.07	QP	P	
4	0.2535	20.48	10.12	30.60	51.64	-21.04	AVG	P	
5	0.4153	17.84	10.13	27.97	47.54	-19.57	AVG	P	
6	0.4200	32.92	10.13	43.05	57.45	-14.40	QP	P	
7	0.5775	32.18	10.14	42.32	56.00	-13.68	QP	P	
8	0.5775	20.67	10.14	30.81	46.00	-15.19	AVG	P	
9	0.7980	20.49	10.15	30.64	46.00	-15.36	AVG	P	
10	0.8565	33.25	10.17	43.42	56.00	-12.58	QP	P	
11	2.5980	29.39	10.23	39.62	56.00	-16.38	QP	P	
12 *	2.5980	26.50	10.23	36.73	46.00	-9.27	AVG	P	

5.3 20dB Bandwidth

Test Requirement:	47 CFR Part 15.215(c)
Test Method:	ANSI C63.10-2020, section 6.9.2
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place 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 “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
Test Setup:	



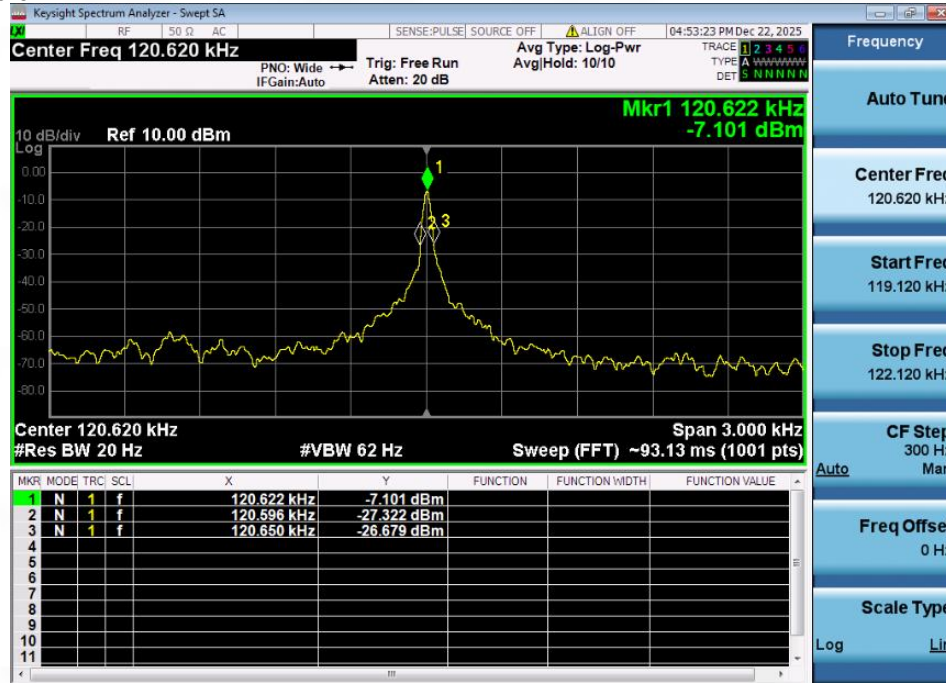
5.3.1 Test Data

Test Frequency (kHz)	f_L (kHz)	f_H (kHz)	20dB Bandwidth (Hz)	Limits
120.622	120.596	120.650	132	N/A
359.236	359.170	359.296	132	N/A

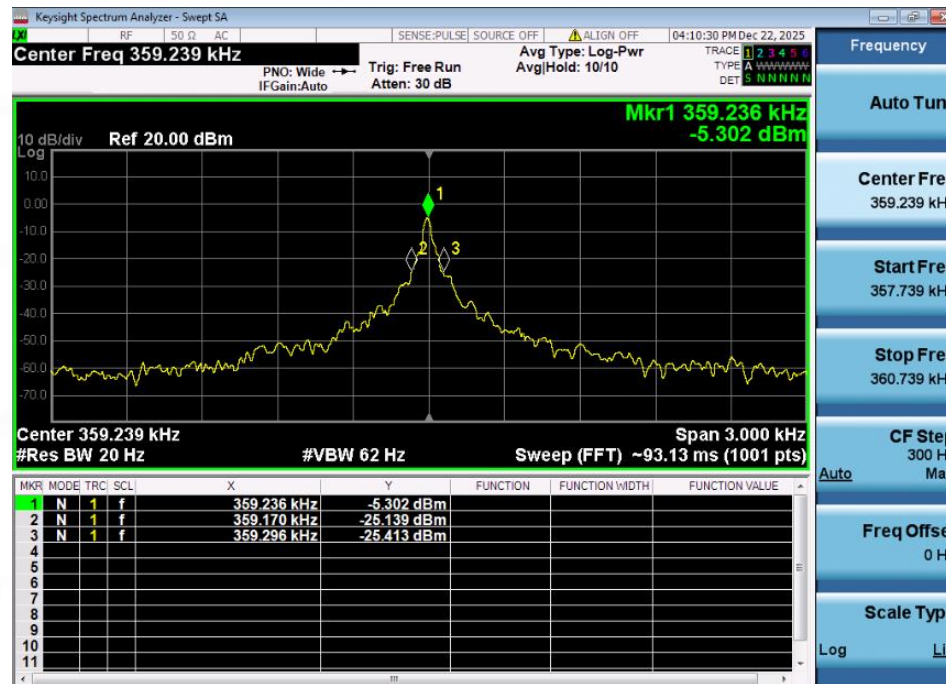
Remark: The CW signal varies with the change of RBW, and it fails to meet the requirements of RBW ranging from 1% to 5%.

Test Plot as Follows:

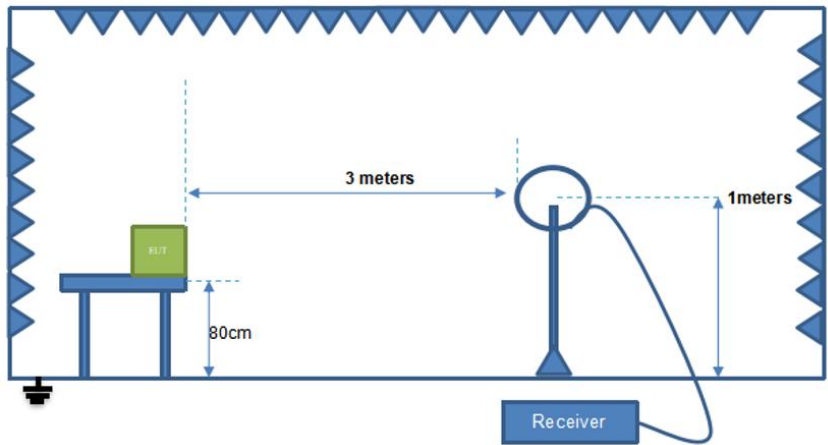
Frequency: 120.622kHz



Frequency: 359.236kHz



5.4 Emissions in frequency bands (below 30MHz)

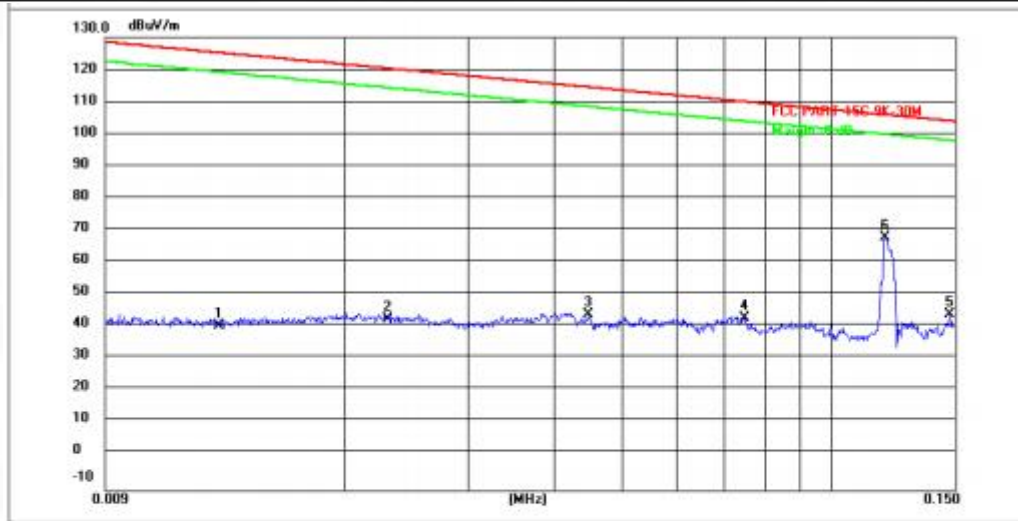
Test Requirement:	47 CFR Part 15.209		
Test Method:	ANSI C63.10-2020 section 6.4		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	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. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.		
Procedure:	ANSI C63.10-2020 section 6.4		
Test Setup:	 The diagram illustrates the test setup for radiated emissions. A device is placed on a stand at a height of 80 cm. A receiver is positioned 3 meters away from the device. The receiver is also 1 meter away from the device. The setup is enclosed in a shielded area, indicated by the jagged lines representing the shield.		
Operating Environment:			
Temperature:	24.3 °C		
Humidity:	49.7 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	DC 3.7V From Battery		

5.4.1 Test Data

Test Frequency (MHz)	Field strength(dBuV/m)	Limits
119.2	68.19	106.07
119.4	65.55	106.06

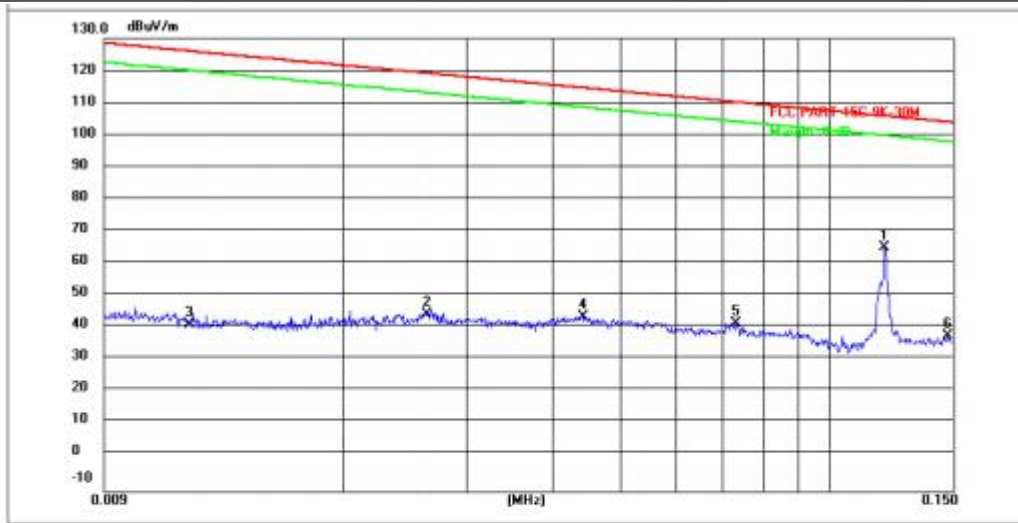
Remark: The report only reflects the worst test data.

TM4 / Polarization: Coaxial



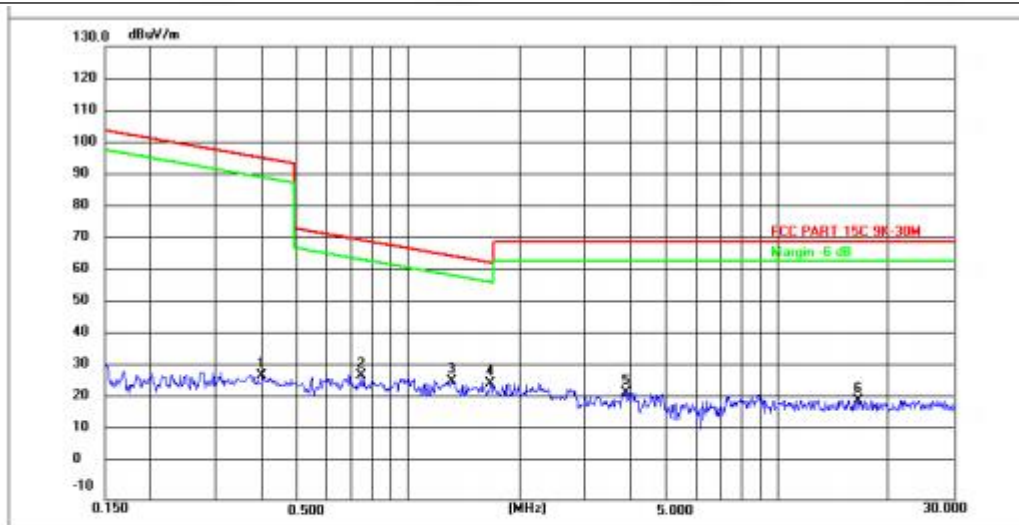
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0131	71.39	-30.36	41.03	125.24	-84.21	peak	P
2	0.0230	73.30	-30.35	42.95	120.35	-77.40	peak	P
3	0.0446	74.73	-30.32	44.41	114.61	-70.20	peak	P
4	0.0747	73.83	-30.28	43.55	110.13	-66.58	peak	P
5	0.1480	74.53	-29.93	44.60	104.19	-59.59	peak	P
6 *	0.1192	98.42	-30.23	68.19	106.07	-37.88	peak	P

TM4 / Polarization: Coplanar



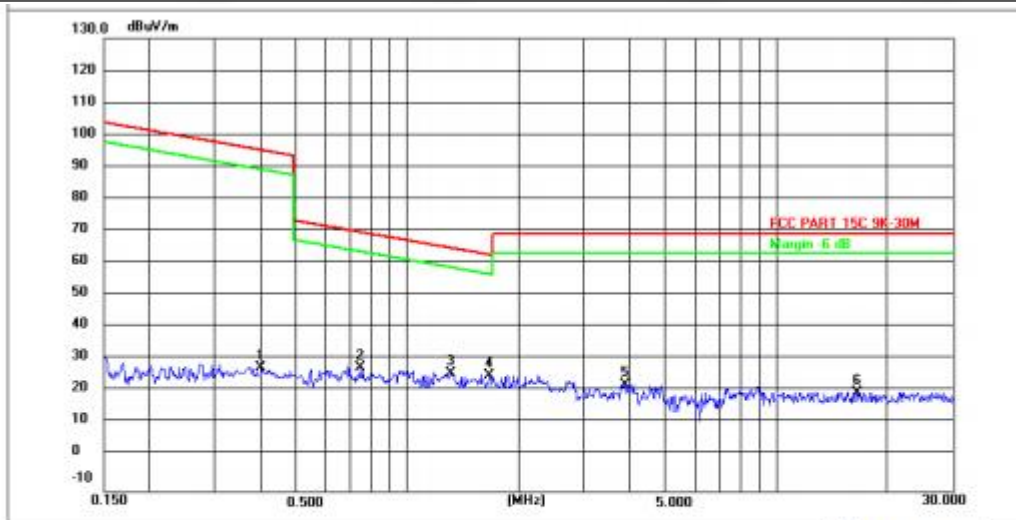
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	0.1194	95.78	-30.23	65.55	106.06	-40.51	peak	P
2	0.0263	75.17	-30.35	44.82	119.19	-74.37	peak	P
3	0.0120	72.13	-30.37	41.76	126.00	-84.24	peak	P
4	0.0440	74.32	-30.32	44.00	114.72	-70.72	peak	P
5	0.0734	72.13	-30.28	41.85	110.28	-68.43	peak	P
6	0.1476	68.04	-29.93	38.11	104.22	-66.11	peak	P

TM4 / Polarization: Coaxial



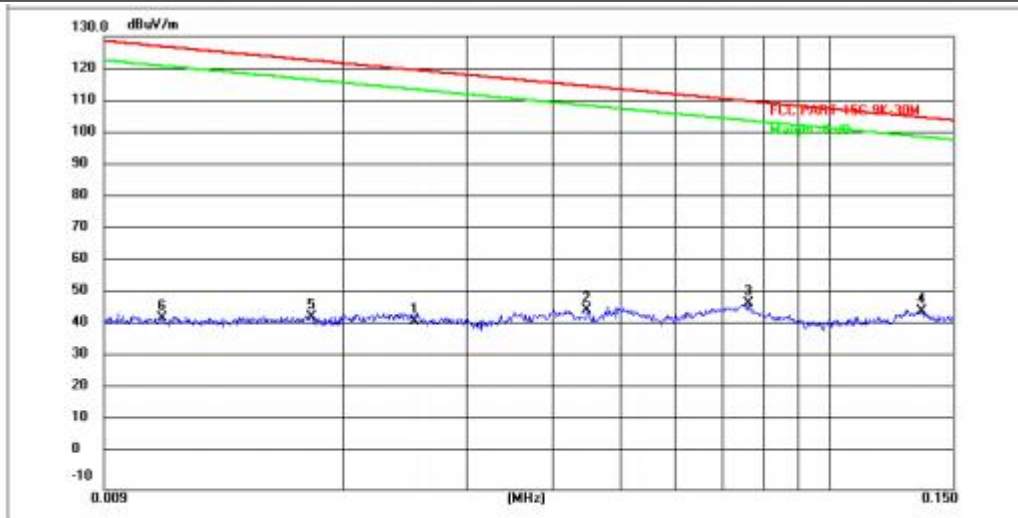
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.4029	57.71	-29.36	28.35	95.50	-67.15	peak	P
2	0.7450	56.97	-28.59	28.38	70.17	-41.79	peak	P
3	1.3098	53.97	-27.36	26.61	65.28	-38.67	peak	P
4 *	1.6624	52.56	-26.65	25.91	63.22	-37.31	peak	P
5	3.8910	45.14	-22.08	23.06	69.50	-46.44	peak	P
6	16.5290	18.06	2.55	20.61	69.50	-48.89	peak	P

TM4 / Polarization: Coplanar



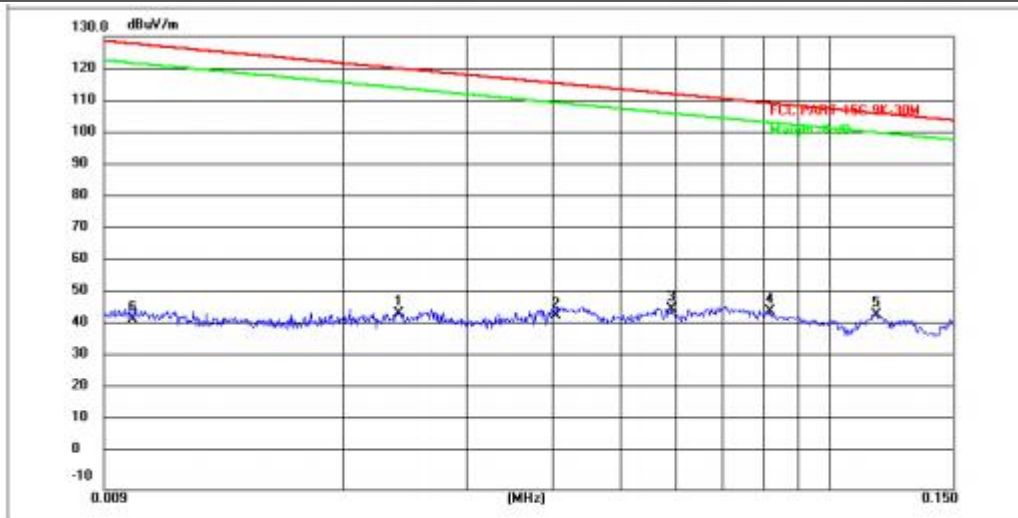
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.4029	57.71	-29.36	28.35	95.50	-67.15	peak	P
2	0.7450	56.97	-28.59	28.38	70.17	-41.79	peak	P
3	1.3098	53.97	-27.36	26.61	65.28	-38.67	peak	P
4 *	1.6624	52.56	-26.65	25.91	63.22	-37.31	peak	P
5	3.8910	45.14	-22.08	23.06	69.50	-46.44	peak	P
6	16.5290	18.06	2.55	20.61	69.50	-48.89	peak	P

TM1 / Polarization: Coaxial



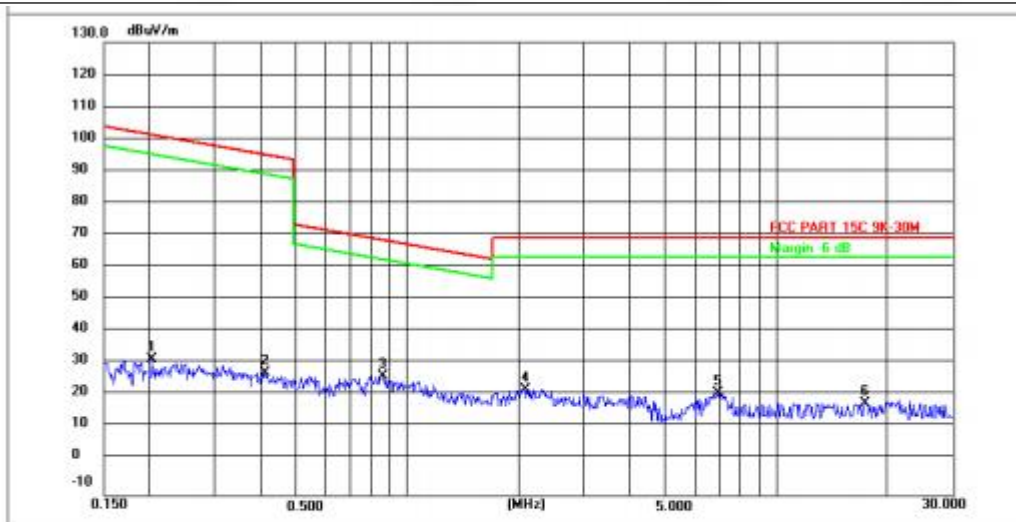
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0252	72.27	-30.35	41.92	119.56	-77.64	peak	P
2	0.0446	75.73	-30.32	45.41	114.61	-69.20	peak	P
3	0.0762	77.73	-30.27	47.46	109.96	-62.50	peak	P
4 *	0.1353	74.97	-29.95	45.02	104.97	-59.95	peak	P
5	0.0180	73.78	-30.36	43.42	122.48	-79.06	peak	P
6	0.0110	73.40	-30.37	43.03	126.76	-83.73	peak	P

TM1 / Polarization: Coplanar



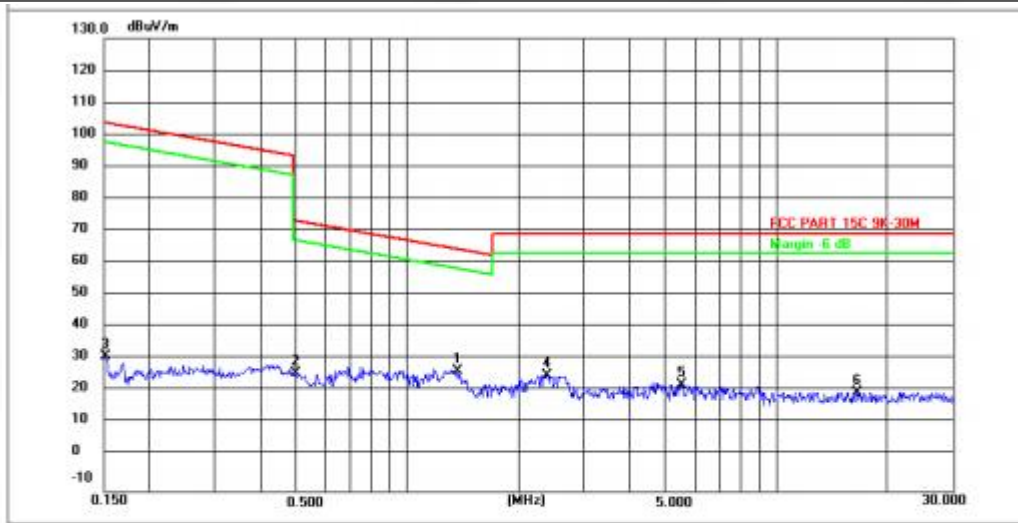
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0240	74.94	-30.35	44.59	119.99	-75.40	peak	P
2	0.0403	74.20	-30.33	43.87	115.49	-71.62	peak	P
3	0.0590	76.18	-30.30	45.88	112.18	-66.30	peak	P
4	0.0820	75.31	-30.27	45.04	109.32	-64.28	peak	P
5 *	0.1164	74.29	-30.24	44.05	106.28	-62.23	peak	P
6	0.0100	72.99	-30.37	42.62	127.59	-84.97	peak	P

TM1 / Polarization: Coaxial



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.2033	61.92	-29.81	32.11	101.44	-69.33	peak	P
2	0.4112	57.42	-29.34	28.08	95.32	-67.24	peak	P
3 *	0.8595	55.20	-28.32	26.88	68.93	-42.05	peak	P
4	2.0989	48.53	-25.75	22.78	69.50	-46.72	peak	P
5	6.9141	37.60	-15.89	21.71	69.50	-47.79	peak	P
6	17.3826	14.31	4.12	18.43	69.50	-51.07	peak	P

TM1 / Polarization: Coplanar

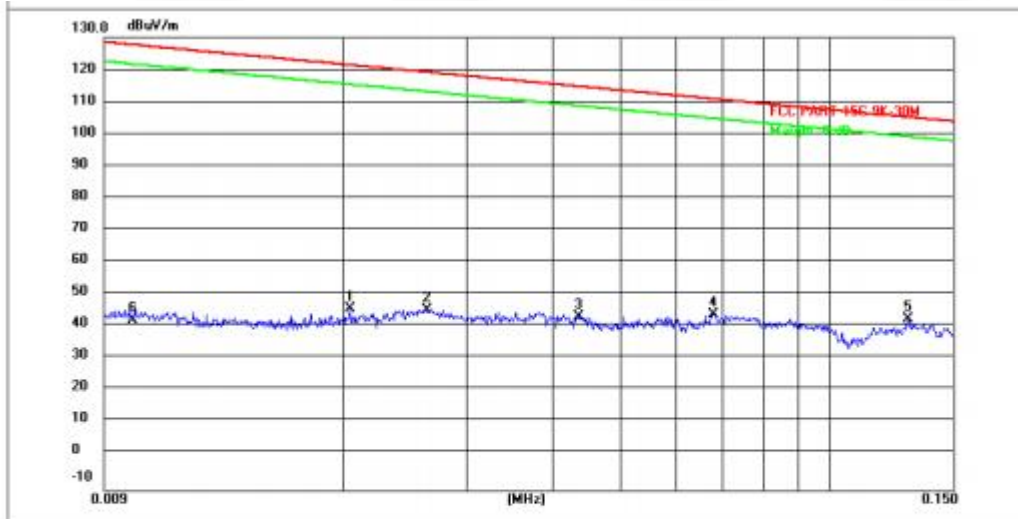


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	1.3665	54.68	-27.24	27.44	64.92	-37.48	peak	P
2	0.4993	55.74	-29.13	26.61	73.64	-47.03	peak	P
3	0.1524	61.88	-29.93	31.95	103.94	-71.99	peak	P
4	2.3898	51.10	-25.15	25.95	69.50	-43.55	peak	P
5	5.5491	41.80	-18.68	23.12	69.50	-46.38	peak	P
6	16.5290	18.06	2.55	20.61	69.50	-48.89	peak	P

Test Frequency (MHz)	Field strength(dBuV/m)	Limits
363.3	61.07	96.4
365.3	55.63	96.35

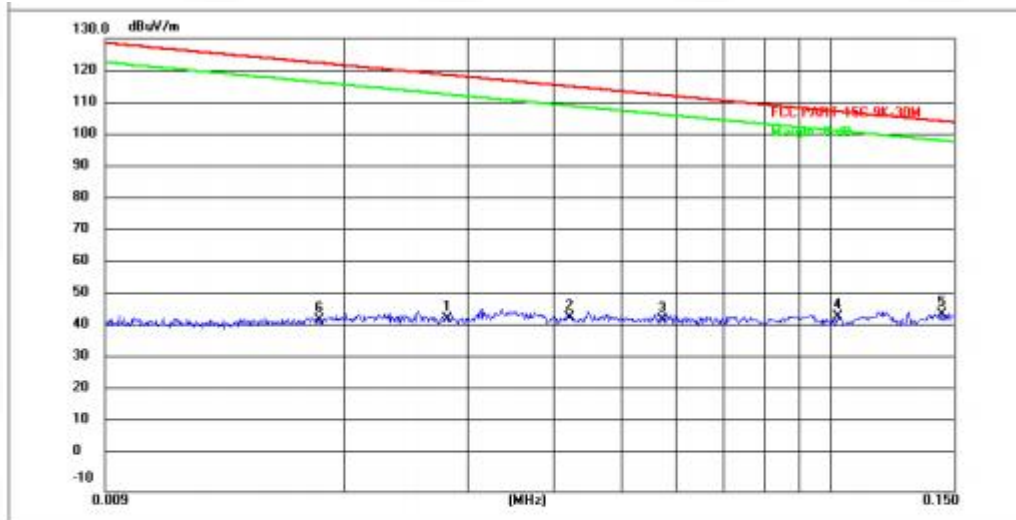
Remark: The report only reflects the worst test data.

TM4 / Polarization: Coaxial



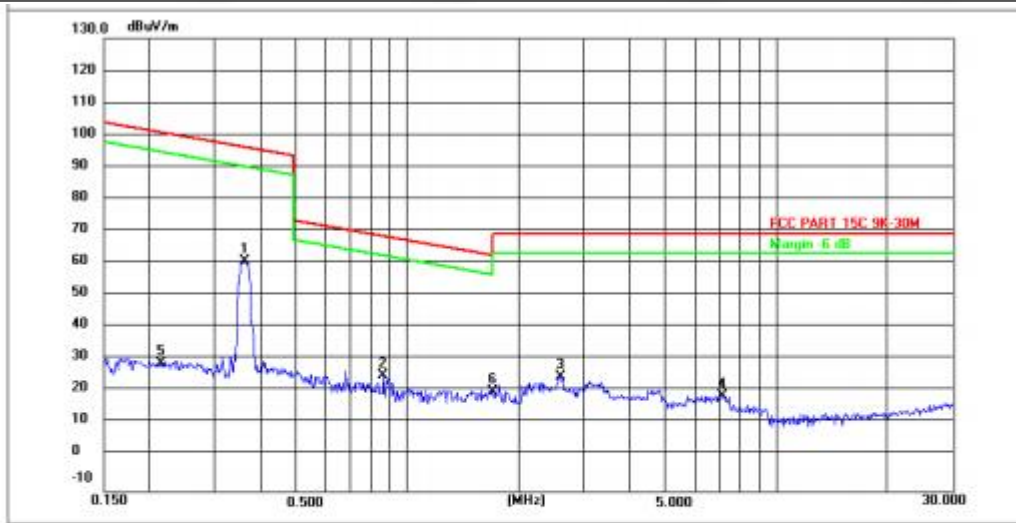
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0204	76.66	-30.35	46.31	121.40	-75.09	peak	P
2	0.0263	76.17	-30.35	45.82	119.19	-73.37	peak	P
3	0.0434	73.97	-30.32	43.65	114.84	-71.19	peak	P
4	0.0680	74.77	-30.29	44.48	110.94	-66.46	peak	P
5 *	0.1292	73.43	-30.23	43.20	105.37	-62.17	peak	P
6	0.0100	72.99	-30.37	42.62	127.59	-84.97	peak	P

TM4 / Polarization: Coplanar



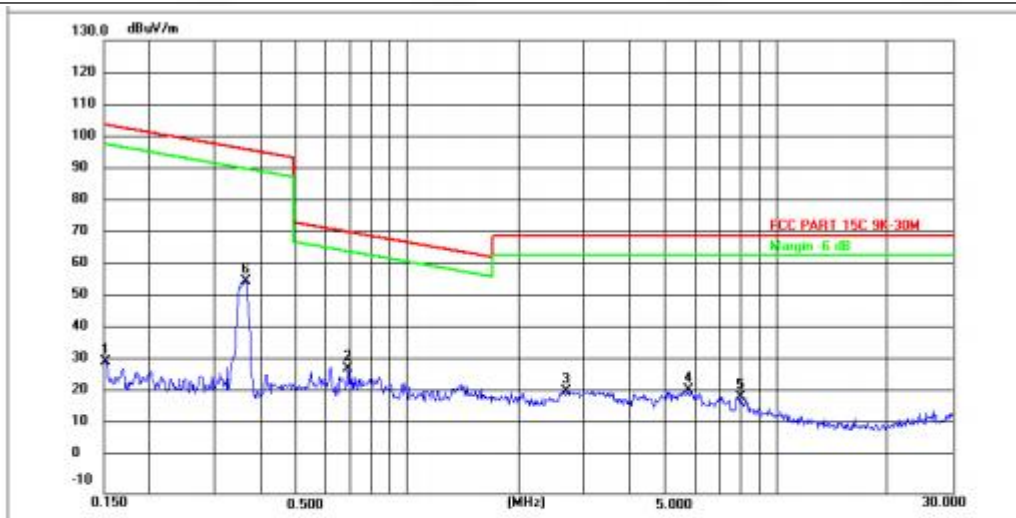
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0280	73.61	-30.34	43.27	118.65	-75.38	peak	P
2	0.0420	73.98	-30.32	43.66	115.13	-71.47	peak	P
3	0.0572	73.35	-30.30	43.05	112.45	-69.40	peak	P
4	0.1023	74.33	-30.24	44.09	107.40	-63.31	peak	P
5 *	0.1444	74.77	-29.95	44.82	104.41	-59.59	peak	P
6	0.0183	73.31	-30.36	42.95	122.34	-79.39	peak	P

TM4 / Polarization: Coaxial



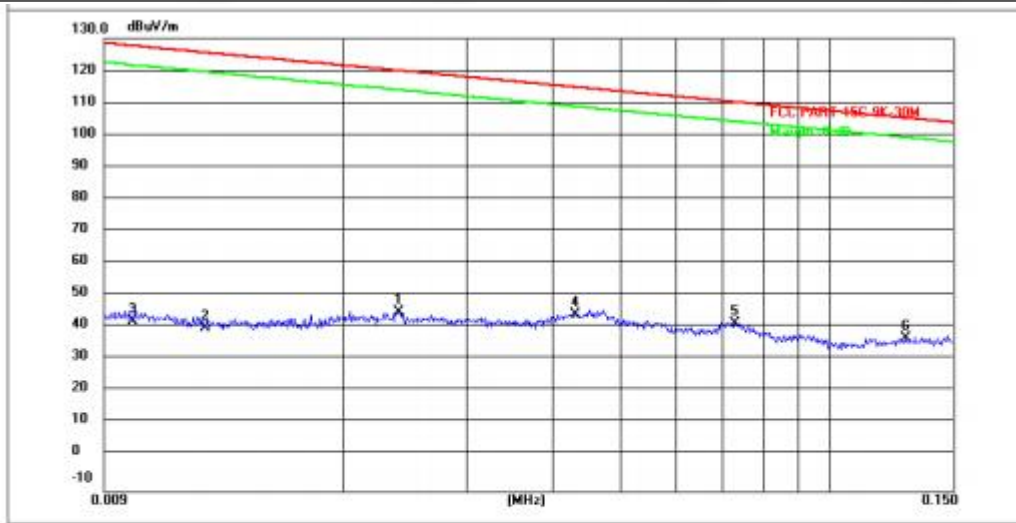
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	0.3633	90.52	-29.45	61.07	96.40	-35.33	peak	P
2	0.8595	54.20	-28.32	25.88	68.93	-43.05	peak	P
3	2.5943	50.35	-24.74	25.61	69.50	-43.89	peak	P
4	7.1562	35.05	-15.38	19.67	69.50	-49.83	peak	P
5	0.2144	59.56	-29.79	29.77	100.98	-71.21	peak	P
6	1.7020	47.58	-26.56	21.02	63.02	-42.00	peak	P

TM4 / Polarization: Coplanar



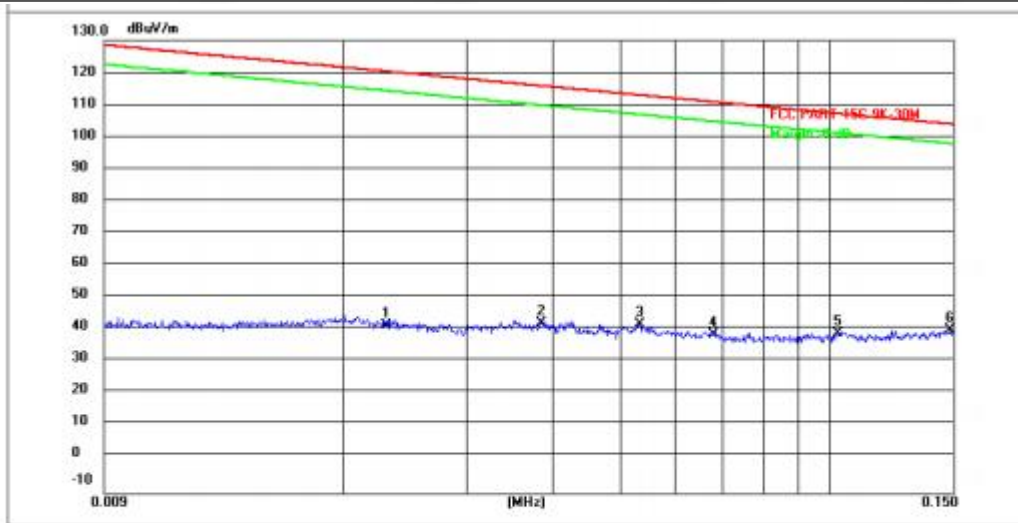
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.1524	60.88	-29.93	30.95	103.94	-72.99	peak	P
2	0.6900	57.45	-28.70	28.75	70.84	-42.09	peak	P
3	2.7067	46.07	-24.49	21.58	69.50	-47.92	peak	P
4	5.7590	40.25	-18.24	22.01	69.50	-47.49	peak	P
5	7.9984	33.73	-13.65	20.08	69.50	-49.42	peak	P
6 *	0.3653	85.06	-29.43	55.63	96.35	-40.72	peak	P

TM1 / Polarization: Coaxial



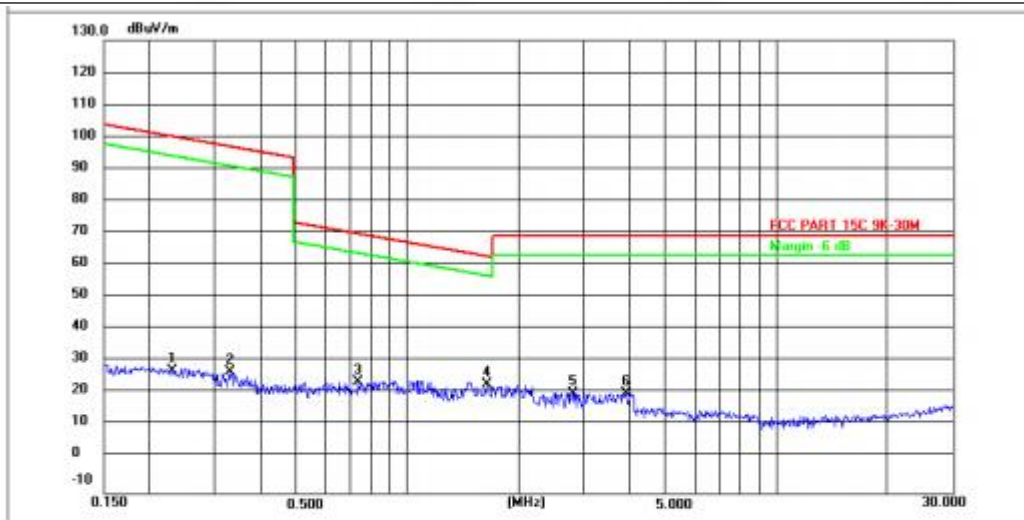
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0240	75.94	-30.35	45.59	119.99	-74.40	peak	P
2	0.0126	71.11	-30.36	40.75	125.58	-84.83	peak	P
3	0.0100	72.99	-30.37	42.62	127.59	-84.97	peak	P
4	0.0430	75.16	-30.32	44.84	114.92	-70.08	peak	P
5	0.0727	72.25	-30.28	41.97	110.36	-68.39	peak	P
6 *	0.1285	67.49	-30.23	37.26	105.42	-68.16	peak	P

TM1 / Polarization: Coplanar



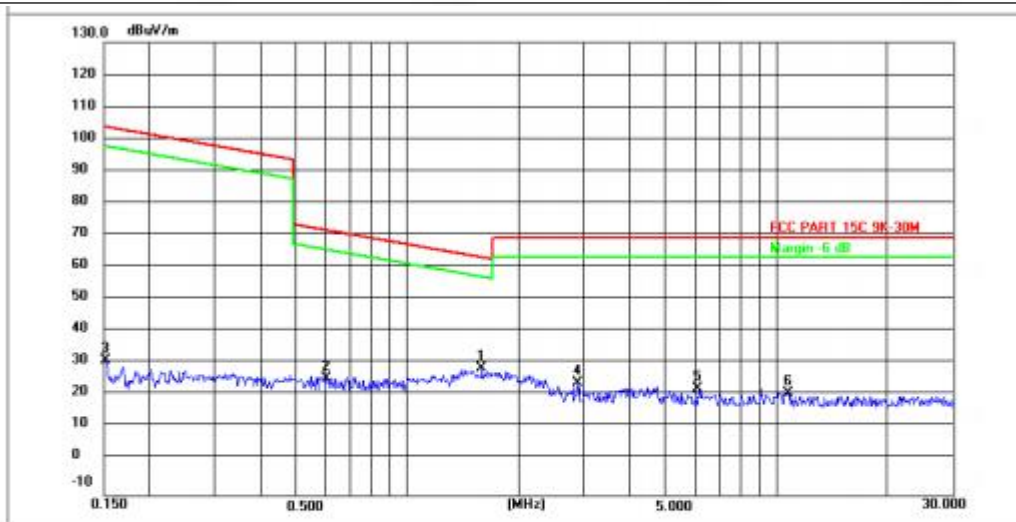
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0230	72.30	-30.35	41.95	120.35	-78.40	peak	P
2	0.0383	73.15	-30.33	42.82	115.93	-73.11	peak	P
3	0.0531	72.62	-30.31	42.31	113.09	-70.78	peak	P
4	0.0680	69.48	-30.29	39.19	110.94	-71.75	peak	P
5	0.1024	69.77	-30.24	39.53	107.39	-67.86	peak	P
6 *	0.1490	70.61	-29.93	40.68	104.13	-63.45	peak	P

TM1 / Polarization: Coaxial



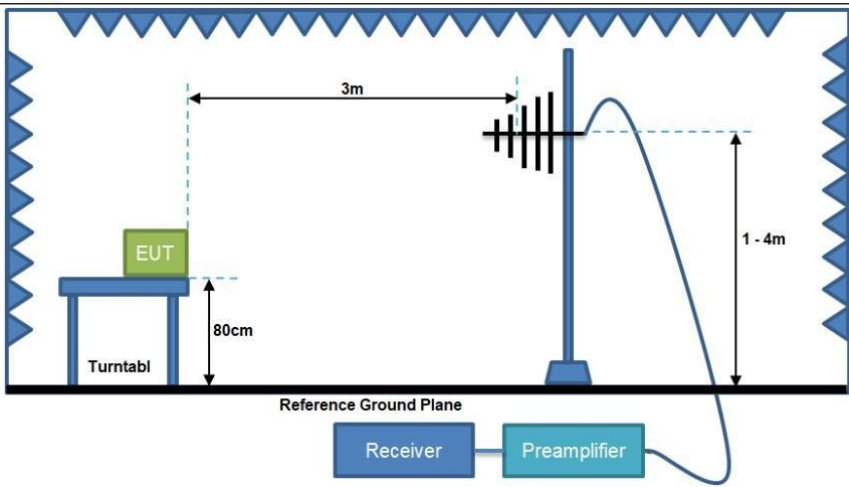
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.2303	57.83	-29.75	28.08	100.35	-72.27	peak	P
2	0.3285	57.15	-29.52	27.63	97.27	-69.64	peak	P
3	0.7330	53.04	-28.61	24.43	70.31	-45.88	peak	P
4 *	1.6406	50.38	-26.69	23.69	63.33	-39.64	peak	P
5	2.8016	45.42	-24.31	21.11	69.50	-48.39	peak	P
6	3.9220	43.01	-22.02	20.99	69.50	-48.51	peak	P

TM1 / Polarization: Coplanar



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	1.5850	56.16	-26.81	29.35	63.63	-34.28	peak	P
2	0.6010	55.25	-28.91	26.34	72.03	-45.69	peak	P
3	0.1524	61.88	-29.93	31.95	103.94	-71.99	peak	P
4	2.8921	48.98	-24.13	24.85	69.50	-44.65	peak	P
5	6.1369	40.53	-17.47	23.06	69.50	-46.44	peak	P
6	10.7900	29.95	-8.10	21.85	69.50	-47.65	peak	P

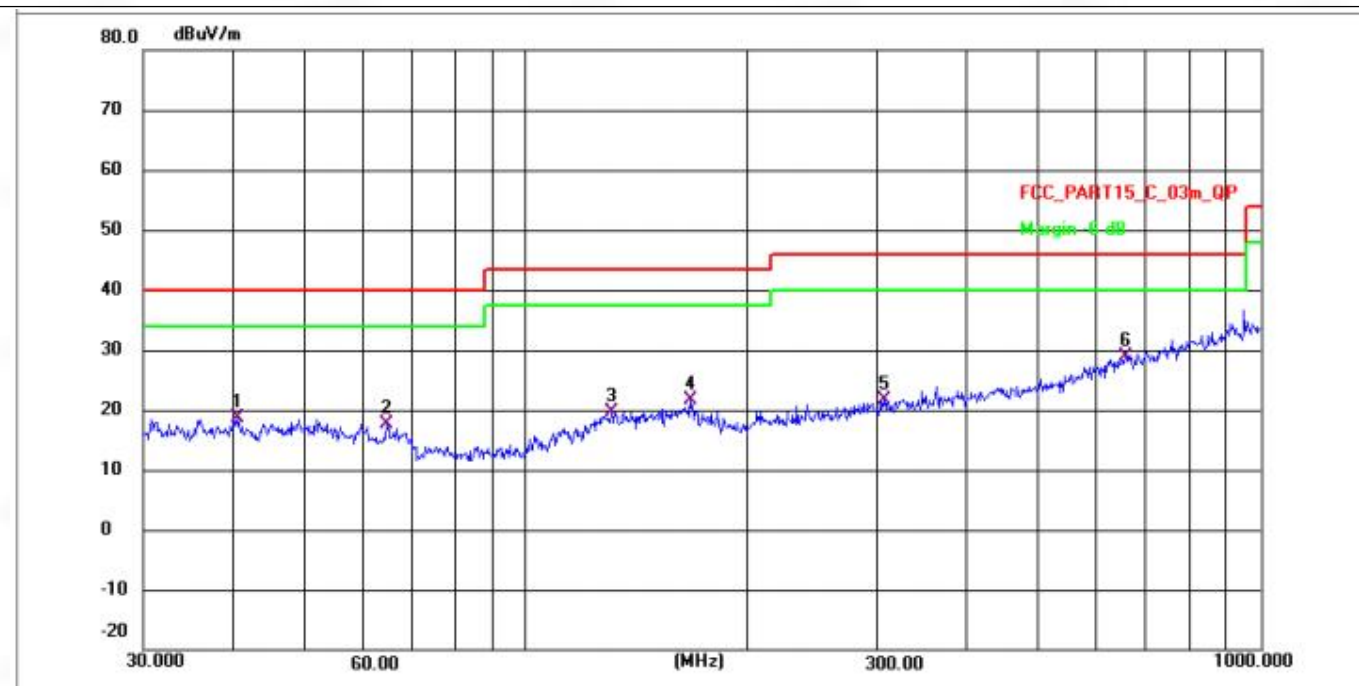
5.5 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209		
Test Method:	ANSI C63.10-2020 section 6.5		
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. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.		
Procedure:	ANSI C63.10-2020 section 6.5		
Test Setup:			
Operating Environment:			
Temperature:	24.3 °C		
Humidity:	49.7 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	AC 120V 60Hz		

5.5.1 Test Data

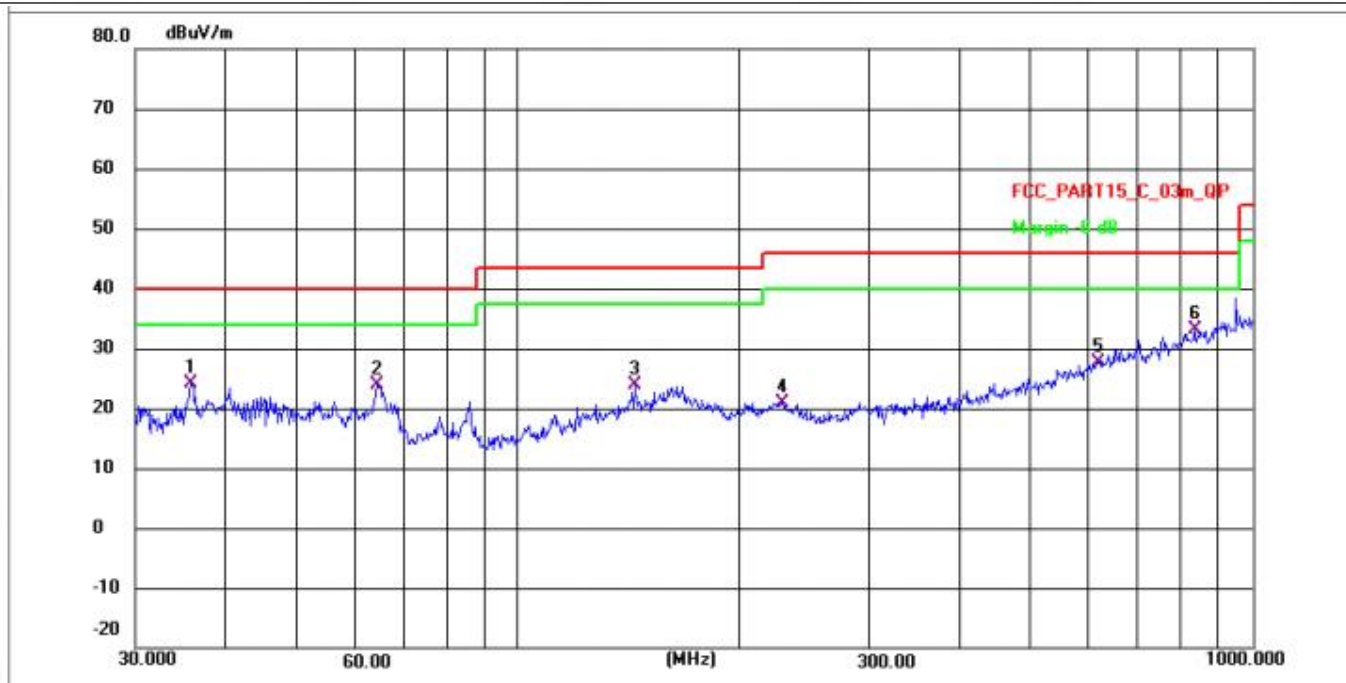
Remark: The report only reflects the worst test data.

TM4 / Polarization: Horizontal



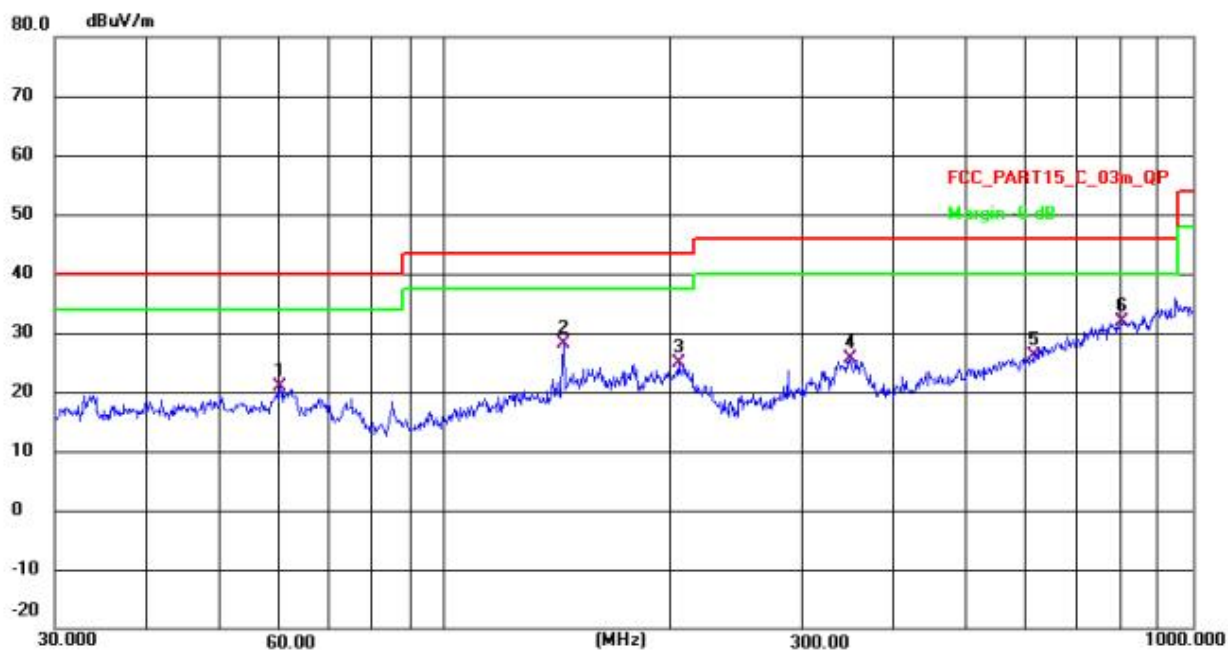
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	40.3462	28.56	-9.99	18.57	40.00	-21.43	QP	P
2	64.6594	27.12	-9.44	17.68	40.00	-22.32	QP	P
3	130.6074	47.08	-27.54	19.54	43.50	-23.96	QP	P
4	167.5302	48.70	-27.11	21.59	43.50	-21.91	QP	P
5	307.8312	47.41	-25.71	21.70	46.00	-24.30	QP	P
6 *	655.3798	51.63	-22.81	28.82	46.00	-17.18	QP	P

TM4 / Polarization: Vertical



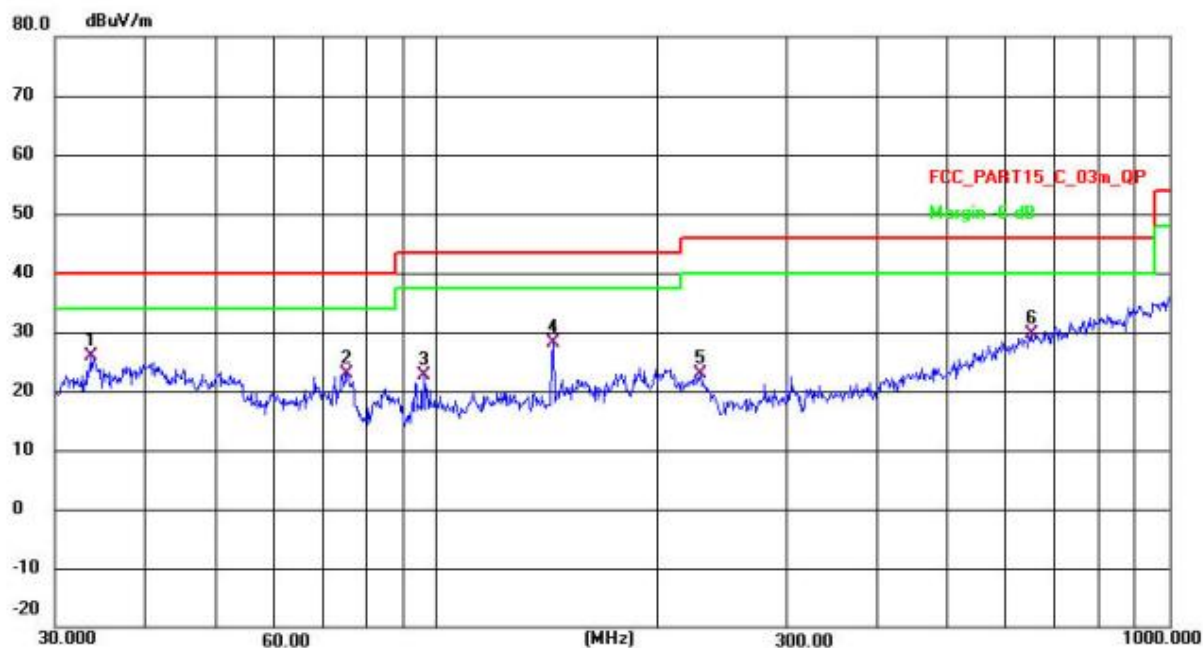
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	35.8117	34.32	-10.17	24.15	40.00	-15.85	QP	P
2	64.0950	33.24	-9.44	23.80	40.00	-16.20	QP	P
3	144.0820	51.28	-27.39	23.89	43.50	-19.61	QP	P
4	228.8914	47.38	-26.47	20.91	46.00	-25.09	QP	P
5	618.5366	50.76	-23.10	27.66	46.00	-18.34	QP	P
6 *	833.3170	54.53	-21.44	33.09	46.00	-12.91	QP	P

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	60.1745	30.39	-9.49	20.90	40.00	-19.10	QP	P
2	144.0820	55.45	-27.39	28.06	43.50	-15.44	QP	P
3	205.3146	51.58	-26.71	24.87	43.50	-18.63	QP	P
4	348.0274	50.90	-25.34	25.56	46.00	-20.44	QP	P
5	614.2142	49.19	-23.13	26.06	46.00	-19.94	QP	P
6 *	808.8459	53.59	-21.63	31.96	46.00	-14.04	QP	P

TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	33.7394	36.24	-10.26	25.98	40.00	-14.02	QP	P
2	75.1821	32.31	-9.34	22.97	40.00	-17.03	QP	P
3	95.9300	50.63	-27.97	22.66	43.50	-20.84	QP	P
4	144.0820	55.60	-27.39	28.21	43.50	-15.29	QP	P
5	229.2930	49.33	-26.47	22.86	46.00	-23.14	QP	P
6	649.6594	52.38	-22.86	29.52	46.00	-16.48	QP	P

6 Test Setup Photos

Please refer to the Appendix I Test Setup Photos

7 EUT Constructional Details (EUT Photos)

Please refer to the Appendix II External Photos & Appendix III External Photos



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--END OF REPORT--