

RF Test Report

For

Applicant name: Dongguan Chenxing Design Technology Co., Ltd.
Address: Room 305, No. 5 Lucheng West Road, Qingxi Town, Dongguan City, Guangdong Province.
EUT name: Portable Speaker
Brand name: KROCX
Model number: TRAVOR
Series model number: N/A
FCC ID: 2BCYG-TRAVOR

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: BTF260617R01401
Test standards: 47 CFR Part 15.247
Test conclusion: Pass

Date of sample receipt: 2026-06-17
Test date: 2026-06-17 to 2026-07-09
Date of issue: 2026-07-10

Prepared by:



Chris Liu / Project engineer

Approved by:



Ryan.CJ / EMC Manager

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

Revision History		
Version	Issue Date	Revisions Content
R_V0	2026-02-02	Original Report Number: BTF260122R01501
R_V0	2026-07-10	This report is a revision of the original report BTF260122R01501, incorporating the addition of the FX202U power adapter and changing the antenna type from PFC antenna to PCB antenna. These modifications affect electromagnetic compatibility data but do not impact RF radio frequency; therefore, no RF testing is required.
Note: <i>Once the revision has been made, then previous versions reports are invalid.</i>		

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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
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.
- **ISED – CAB identifier.: CN0135**
The 3m Semi-anechoic chamber of BTF Testing Lab (Shenzhen) Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 27844.

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:	Dongguan Chenxing Design Technology Co., Ltd.
Address:	Room 305, No. 5 Lucheng West Road, Qingxi Town, Dongguan City, Guangdong Province.

2.2 Manufacturer Information

Company name:	Dongguan Chenxing Design Technology Co., Ltd.
Address:	Room 305, No. 5 Lucheng West Road, Qingxi Town, Dongguan City, Guangdong Province.

2.3 Factory Information

Company name:	Shenzhen Common Endeavor Technology Co., Ltd
Address:	101, Building A, No. 34 Fengshun Road, Tongxin Community, Baolong Street, Longgang Shenzhen, Guangdong Sheng, China

2.4 General Description of Equipment under Test (EUT)

EUT name:	Portable Speaker
Under test model name:	TRAVOR
Series model name:	N/A
Description of model name differentiation:	N/A
Ratings:	Input: 5V===3A/9V===2.22A/12V===1.67A. Battery: 7.2V 4500mAh 32.4Wh Adapter 1: Model: XED-ULPD20W Input: AC 100-240V~50/60Hz 0.6A(MAX) Type C Output: DC 5V===3A/9V===2.22A/12V===1.67A.(20W Max) Adapter 2: Model: FX202U Input: 100-240V~50/60Hz 0.7A USB-C: 5V===3A 9V===2.22A 12V===1.67A. 20W Max

2.5 Technical Information

Operation Frequency:	2402MHz to 2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation technology:	GFSK, $\pi/4$ DQPSK, 8DPSK
Max. Peak Conducted Output Power:	4.28dBm
Antenna type:	PCB Antenna
Antenna gain:	1.08dBi (declare by Applicant)

Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	/	/

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

ANSI C63.10-2020+C63.10a-2024: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of The FCC Rules.

3.2 Uncertainty of Test

Measurement	Value
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.45 dB
Radiated Emission(1GHz~18GHz)	±4.80 dB
Radiated Emission(9kHz~30MHz)	±2.20 dB
Radiated Emission(30MHz~1GHz)	±4.94 dB
Radiated Emission (18GHz ~ 40GHz)	±5.08dB
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Remark: 1. Pass: Meet the requirements. 2. N/A: not applicable.			

3.4 Additions to, deviations, or exclusions from the method

None

4 Test Configuration

4.1 Test Equipment List

Conducted Emission at AC power line					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Test Software	Frad	EZ EMC	Version: EMC-CON 3A1.1+	/	/
EMI Receiver	Rohde & Schwarz	ESCI3	101422	2025-10-17	2026-10-16
V-LISN	Schwarzbeck	NSLK 8127	01073	2025-08-23	2026-08-22
Coaxial Switcher	Schwarzbeck	CX210	CX210	/	/
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	/	/
LISN-Cable	REBES Talent	LISN9K30M	21101580	2025-08-23	2026-08-22

Band edge emissions (Radiated) Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz)					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Test Software	Frad	EZ EMC	Version: FA-03A2 RE+	/	/
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 (9kHz ~ 6GHz)	Schwarzbeck	BBV9744	00246	2026-05-10	2027-05-09
BELOW-Cable	REBES Talent	9K1G	21101576	2025-08-23	2026-08-22
Horn Antenna	Schwarzbeck	BBHA9120D	2597	2025-10-18	2026-10-17
Preamplifier (1GHz ~ 18GHz)	Schwarzbeck	BBV9718D	00008	2025-10-18	2026-10-17
Preamplifier	TSTPASS	LNA10180G45	TS2215007	2026-05-10	2027-05-09
ABOVE-Cable	REBES Talent	1~18G	21101558	2025-08-23	2026-08-22
Horn Antenna	SCHWARZBECK	BBHA9170	1157	2025-10-18	2026-10-17
Low Noise Pre-amplifier	Sket	LNPA_1840G-50	SK2022032902	2025-10-17	2026-10-16
ABOVE-Cable2	REBES Talent	18~40G	21101686	2025-08-23	2026-08-22
ABOVE-Cable1	REBES Talent	18~40G	21101687	2025-08-23	2026-08-22
Loop Antenna	SCHWARZBECK	FMZB 1519 B	00059	2025-06-25	2027-06-24
Filter	COM-MW	ZBSF6-M2400-248 3.5-2990	08226825	2025-10-18	2026-10-17

4.2 Test Auxiliary Equipment

The EUT has been tested as an independent unit.

4.3 Test Modes

No.	Test Modes
TM1	TX-GFSK (Non-Hopping)
TM2	TX-Pi/4DQPSK (Non-Hopping)
TM3	TX-8DPSK (Non-Hopping)
TM4	TX-GFSK (Hopping)
TM5	TX-Pi/4DQPSK (Hopping)
TM6	TX-8DPSK (Hopping)

4.4 Test Channel of EUT

Operation Band: 2400-2483.5 MHz

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

4.5 Test software

Test software:	Version:	Power Class:
FCC.exe	V3.01	64

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

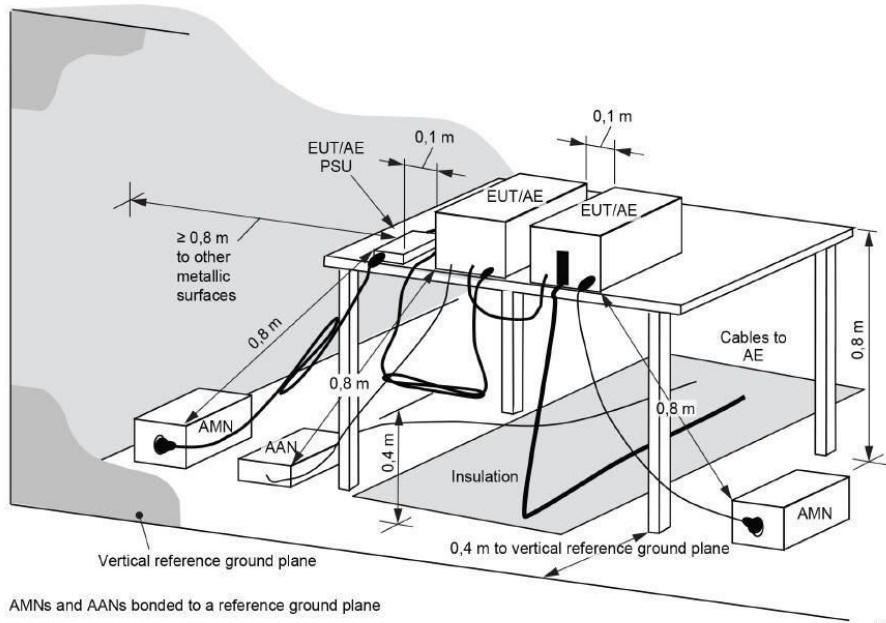
Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
Test Method:	---
Operating Environment:	
Temperature:	24.1 °C
Humidity:	48.6 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 7.2V From Battery

5.1.1 Conclusion

The Bluetooth antenna is an Internal antenna which permanently attached, and the best case gain of the antenna is 1.08dBi. See product internal photos for details.

6 Radio Spectrum Matter Test Results (RF)

6.1 Conducted Emission at AC power line

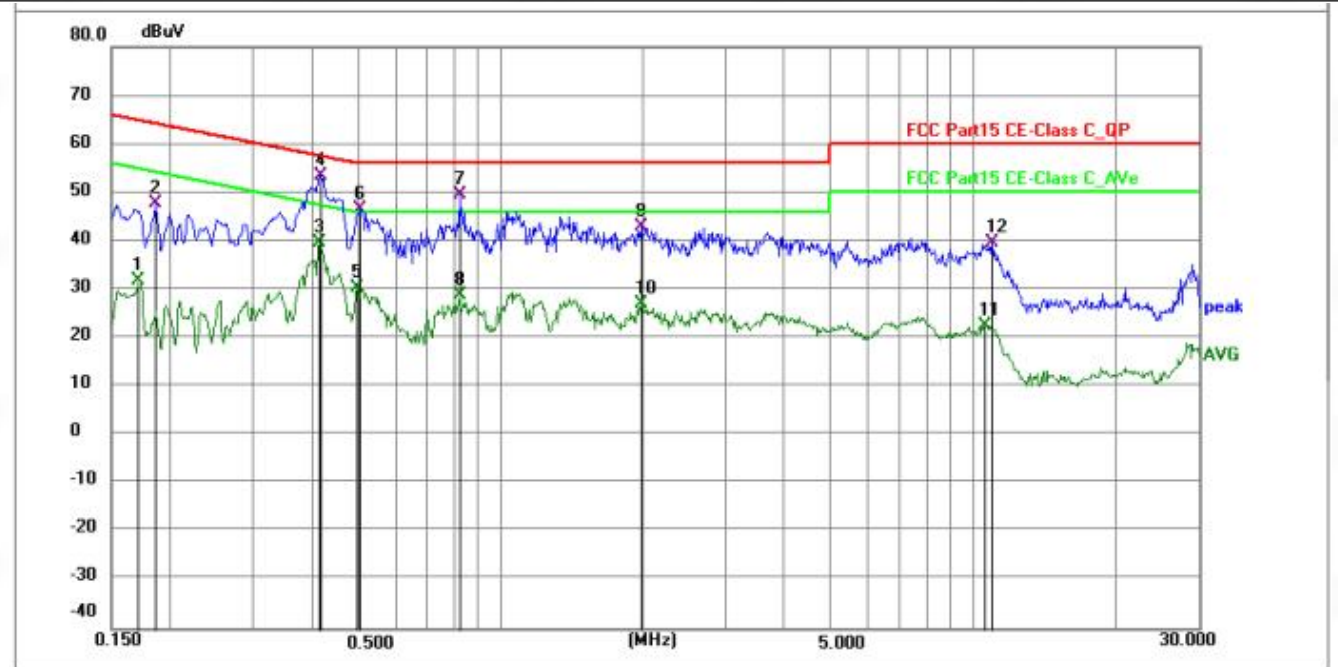
Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).		
Test Method:	ANSI C63.10-2020+C63.10a-2024 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+C63.10a-2024 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
Test Setup:			
Operating Environment:			
Temperature:	24.4 °C		
Humidity:	53.9 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	AC 120V/60Hz		

6.1.1 Test Data

Remark: The report only reflects the test data of worst mode TM3.

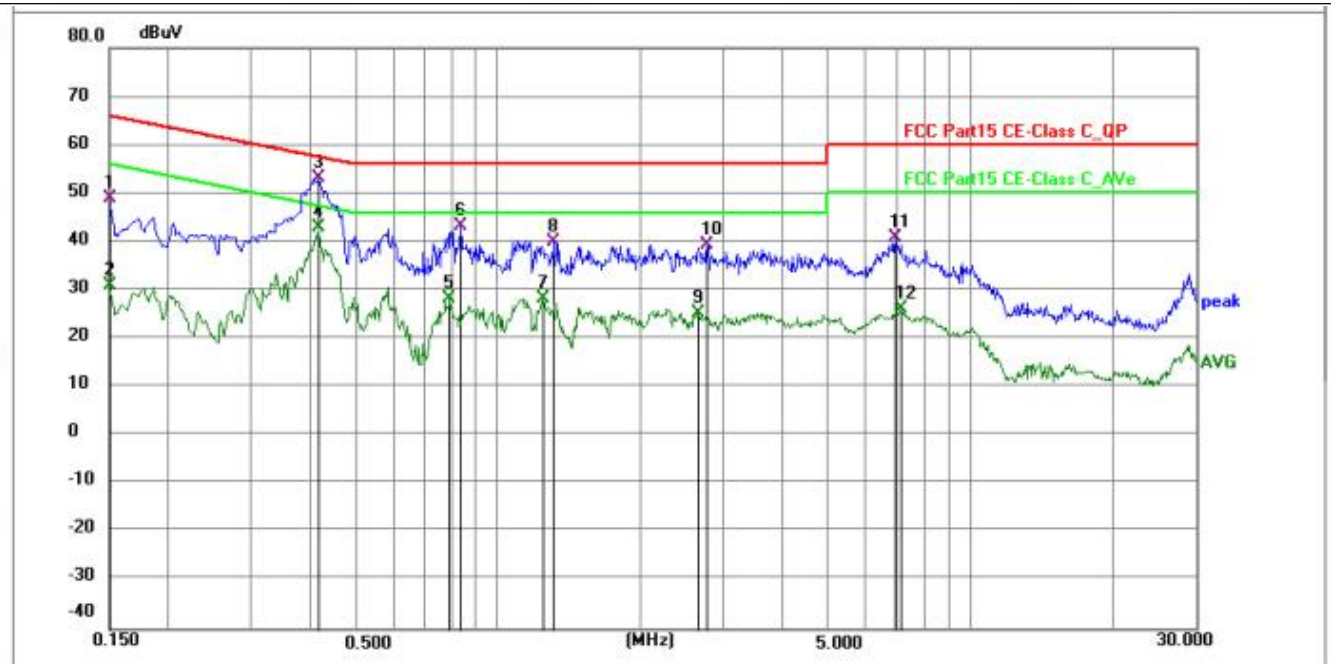
Adapter 2: FX202U

TM3 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1720	21.75	10.21	31.96	54.86	-22.90	AVG	P	
2	0.1860	37.56	10.18	47.74	64.21	-16.47	QP	P	
3	0.4110	29.48	10.08	39.56	47.63	-8.07	AVG	P	
4 *	0.4153	43.38	10.09	53.47	57.54	-4.07	QP	P	
5	0.4964	20.28	10.12	30.40	46.06	-15.66	AVG	P	
6	0.5051	36.48	10.12	46.60	56.00	-9.40	QP	P	
7	0.8205	39.48	10.09	49.57	56.00	-6.43	QP	P	
8	0.8205	18.68	10.09	28.77	46.00	-17.23	AVG	P	
9	1.9901	32.65	10.27	42.92	56.00	-13.08	QP	P	
10	1.9901	16.69	10.27	26.96	46.00	-19.04	AVG	P	
11	10.6035	12.16	10.53	22.69	50.00	-27.31	AVG	P	
12	11.0040	29.01	10.55	39.56	60.00	-20.44	QP	P	

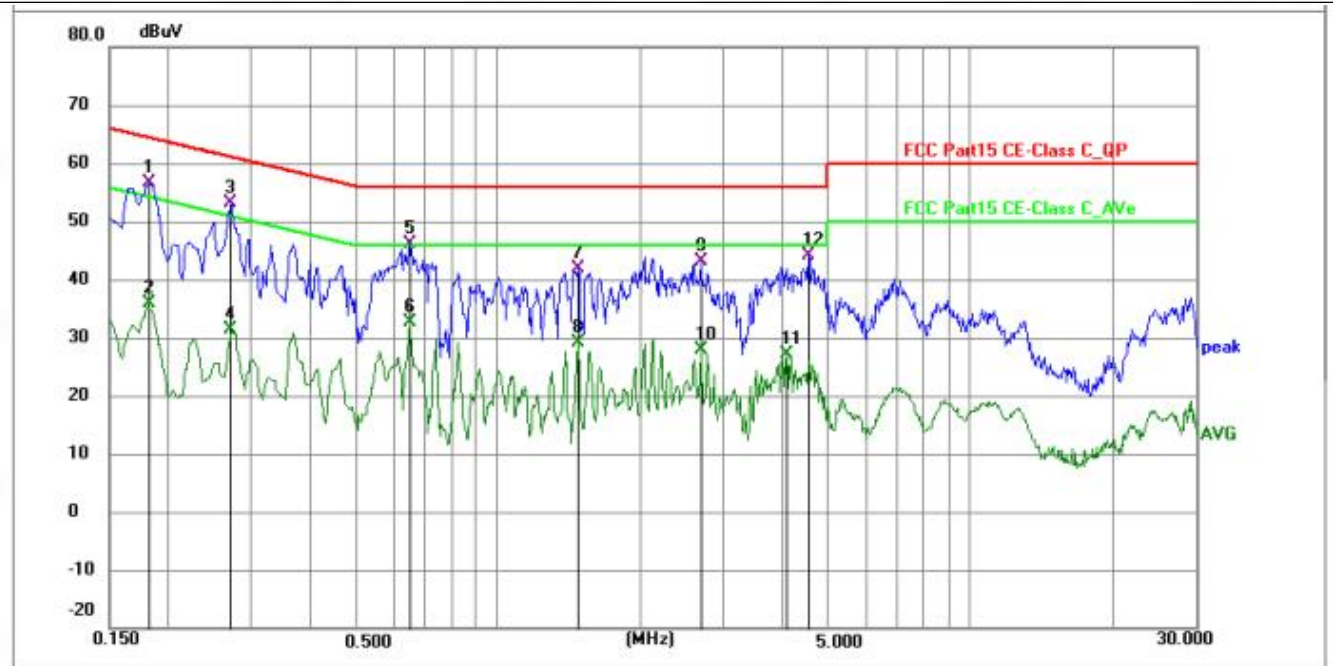
TM3 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	38.94	10.12	49.06	66.00	-16.94	QP	P	
2	0.1500	20.81	10.12	30.93	56.00	-25.07	AVG	P	
3 *	0.4153	43.02	10.13	53.15	57.54	-4.39	QP	P	
4	0.4153	32.68	10.13	42.81	47.54	-4.73	AVG	P	
5	0.7890	18.08	10.15	28.23	46.00	-17.77	AVG	P	
6	0.8340	33.07	10.15	43.22	56.00	-12.78	QP	P	
7	1.2480	18.01	10.18	28.19	46.00	-17.81	AVG	P	
8	1.3110	29.69	10.18	39.87	56.00	-16.13	QP	P	
9	2.6610	15.10	10.24	25.34	46.00	-20.66	AVG	P	
10	2.7869	29.11	10.24	39.35	56.00	-16.65	QP	P	
11	6.9225	30.38	10.40	40.78	60.00	-19.22	QP	P	
12	7.1070	15.82	10.40	26.22	50.00	-23.78	AVG	P	

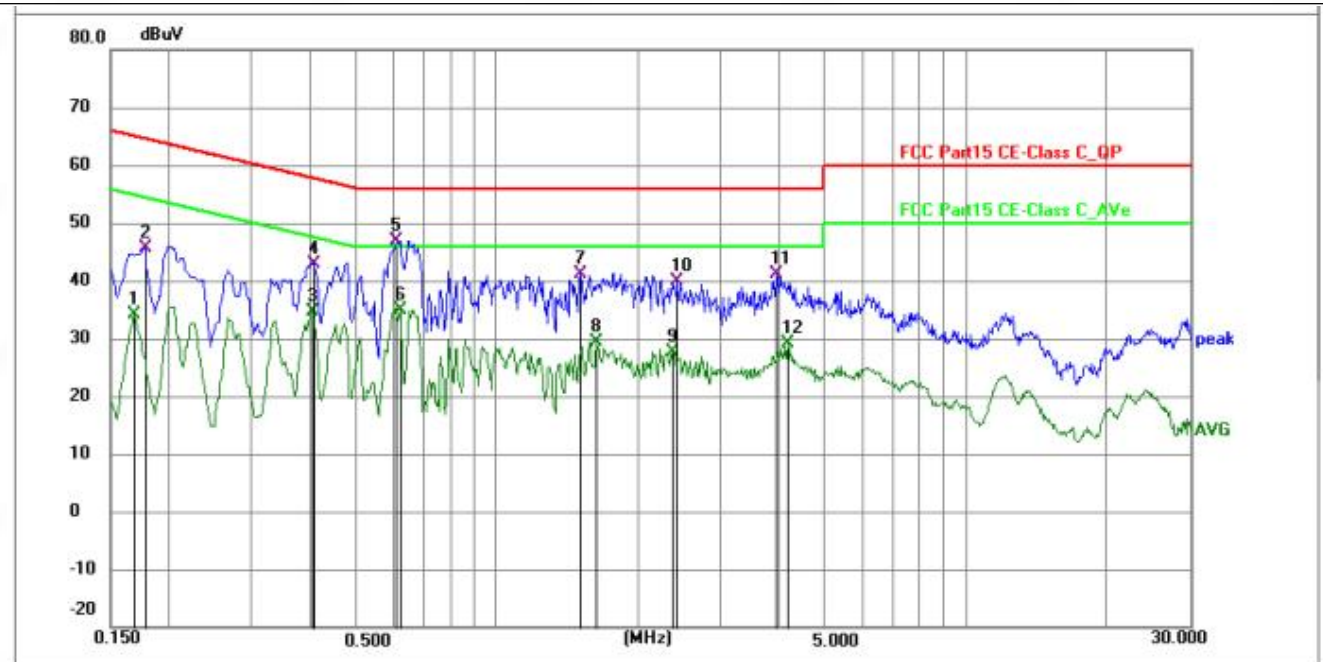
Adapter 1: XED-ULPD20W

TM3 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1814	46.46	10.19	56.65	64.42	-7.77	QP	P	
2	0.1814	25.62	10.19	35.81	54.42	-18.61	AVG	P	
3	0.2714	43.13	10.09	53.22	61.07	-7.85	QP	P	
4	0.2714	21.37	10.09	31.46	51.07	-19.61	AVG	P	
5	0.6493	35.92	10.17	46.09	56.00	-9.91	QP	P	
6	0.6493	22.46	10.17	32.63	46.00	-13.37	AVG	P	
7	1.4730	31.72	10.23	41.95	56.00	-14.05	QP	P	
8	1.4730	18.87	10.23	29.10	46.00	-16.90	AVG	P	
9	2.6880	33.01	10.23	43.24	56.00	-12.76	QP	P	
10	2.6880	17.66	10.23	27.89	46.00	-18.11	AVG	P	
11	4.0785	16.87	10.25	27.12	46.00	-18.88	AVG	P	
12	4.5464	33.91	10.29	44.20	56.00	-11.80	QP	P	

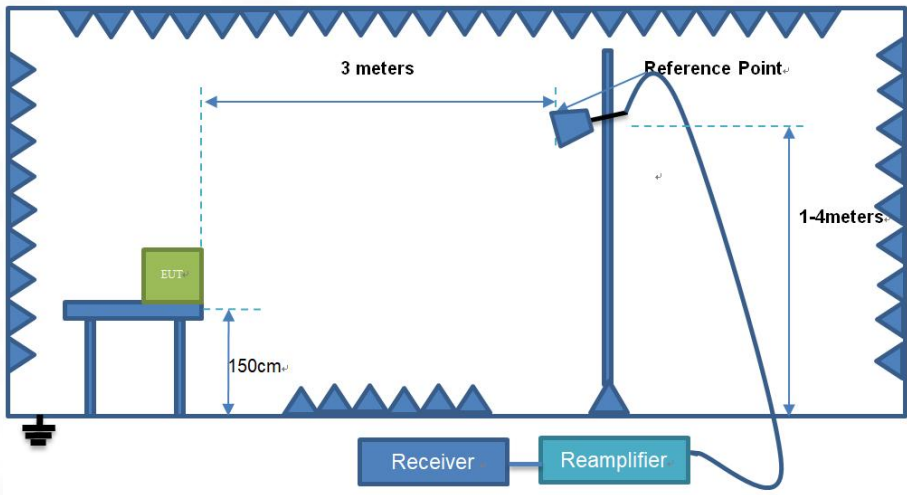
TM3 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1680	23.96	10.11	34.07	55.06	-20.99	AVG	P	
2	0.1770	35.44	10.11	45.55	64.63	-19.08	QP	P	
3	0.4020	24.63	10.12	34.75	47.81	-13.06	AVG	P	
4	0.4065	32.76	10.12	42.88	57.72	-14.84	QP	P	
5 *	0.6134	36.75	10.15	46.90	56.00	-9.10	QP	P	
6	0.6225	24.76	10.15	34.91	46.00	-11.09	AVG	P	
7	1.5045	30.99	10.19	41.18	56.00	-14.82	QP	P	
8	1.6350	19.11	10.19	29.30	46.00	-16.70	AVG	P	
9	2.3685	17.32	10.22	27.54	46.00	-18.46	AVG	P	
10	2.4315	29.63	10.22	39.85	56.00	-16.15	QP	P	
11	3.9615	30.72	10.29	41.01	56.00	-14.99	QP	P	
12	4.1730	18.79	10.29	29.08	46.00	-16.92	AVG	P	

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+LISN+Cable loss-Limit

6.2 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 Method:	ANSI C63.10-2020+C63.10a-2024 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
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.		
Procedure:	ANSI C63.10-2020 section 6.10.5.2		
Test Setup:			
Operating Environment:			
Temperature:	23 °C		
Humidity:	51.7 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	DC 7.2V From Battery		

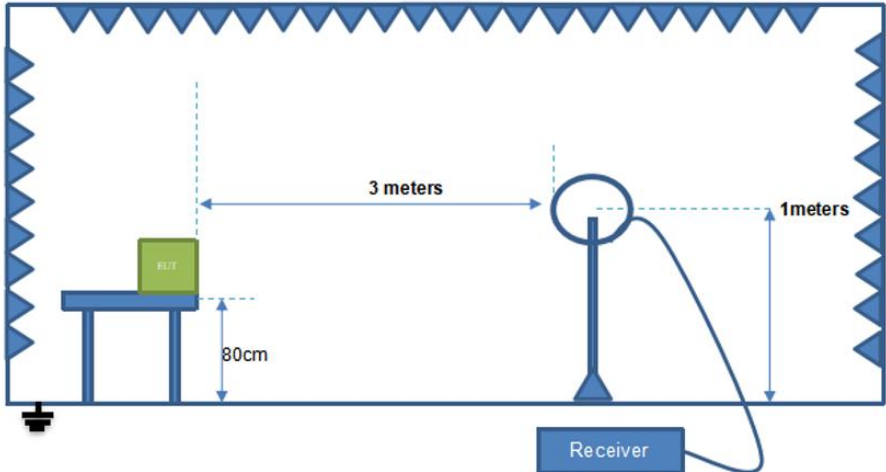
6.2.1 Test Data

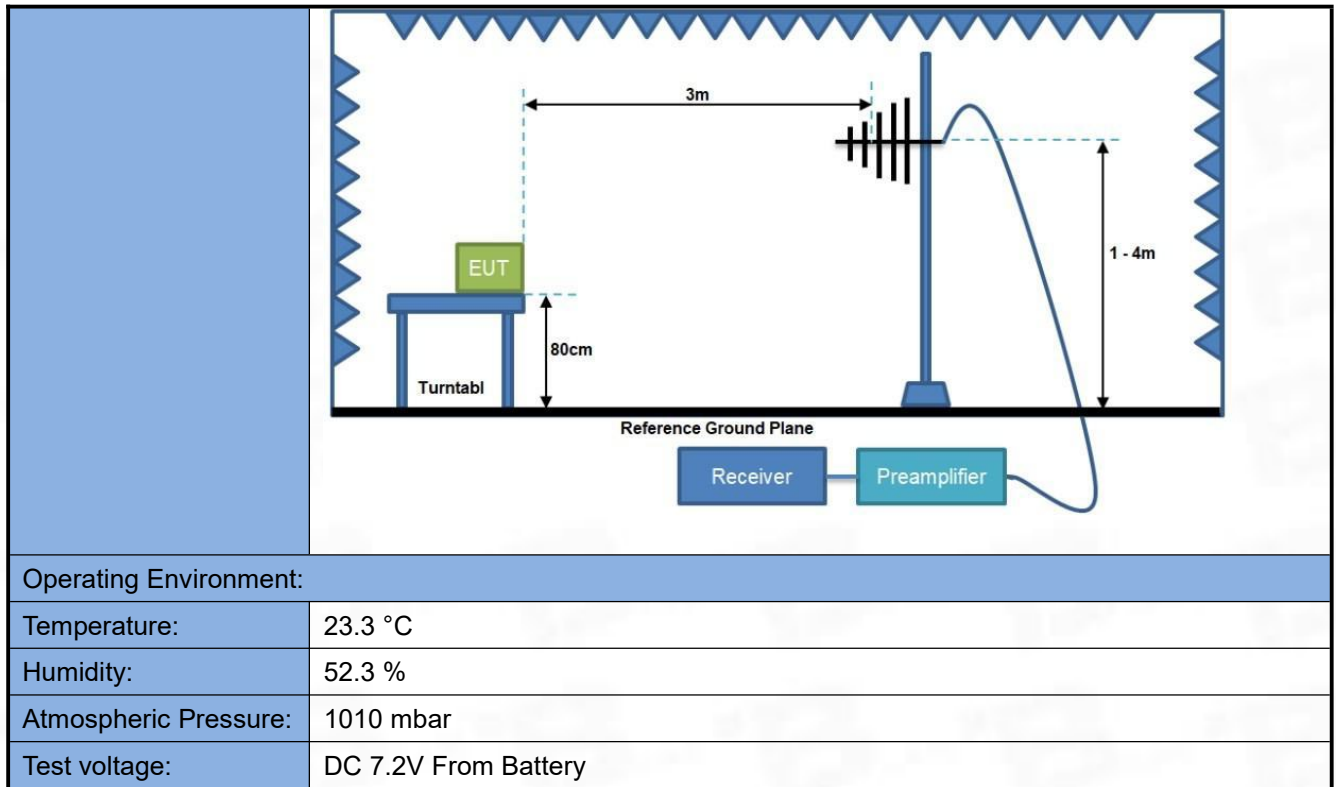
Remark: The report only reflects the test data of worst mode TM3.

Test Channel: Lowest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2310.00	51.64	3.85	55.49	74.00	-18.51	Peak	Pass
2310.00	41.96	3.85	45.81	54.00	-8.19	AVG	Pass
2390.00	52.84	3.91	56.76	74.00	-17.24	Peak	Pass
2390.00	43.25	3.91	47.16	54.00	-6.84	AVG	Pass
Test Channel: Lowest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2310.00	51.77	3.85	55.62	74.00	-18.38	Peak	Pass
2310.00	40.90	3.85	44.75	54.00	-9.25	AVG	Pass
2390.00	51.53	3.91	55.44	74.00	-18.56	Peak	Pass
2390.00	41.19	3.91	45.11	54.00	-8.89	AVG	Pass
Test Channel: Highest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2483.50	50.60	3.99	54.59	74.00	-19.41	Peak	Pass
2483.50	40.93	3.99	44.92	54.00	-9.08	AVG	Pass
2500.00	52.43	4.00	56.43	74.00	-17.57	Peak	Pass
2500.00	42.74	4.00	46.74	54.00	-7.26	AVG	Pass
Test Channel: Highest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2483.50	51.99	3.99	55.98	74.00	-18.02	Peak	Pass
2483.50	41.26	3.99	45.24	54.00	-8.76	AVG	Pass
2500.00	52.97	4.00	56.97	74.00	-17.03	Peak	Pass
2500.00	42.07	4.00	46.07	54.00	-7.93	AVG	Pass

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -Limit

6.3 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 Method:	ANSI C63.10-2020+C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
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.		
Procedure:	ANSI C63.10-2020+C63.10a-2024 section 6.5.4		
Test Setup:			



6.3.1 Test Data

Remark: The report only reflects the test data of worst mode TM3.
(9KHz-30 MHz)

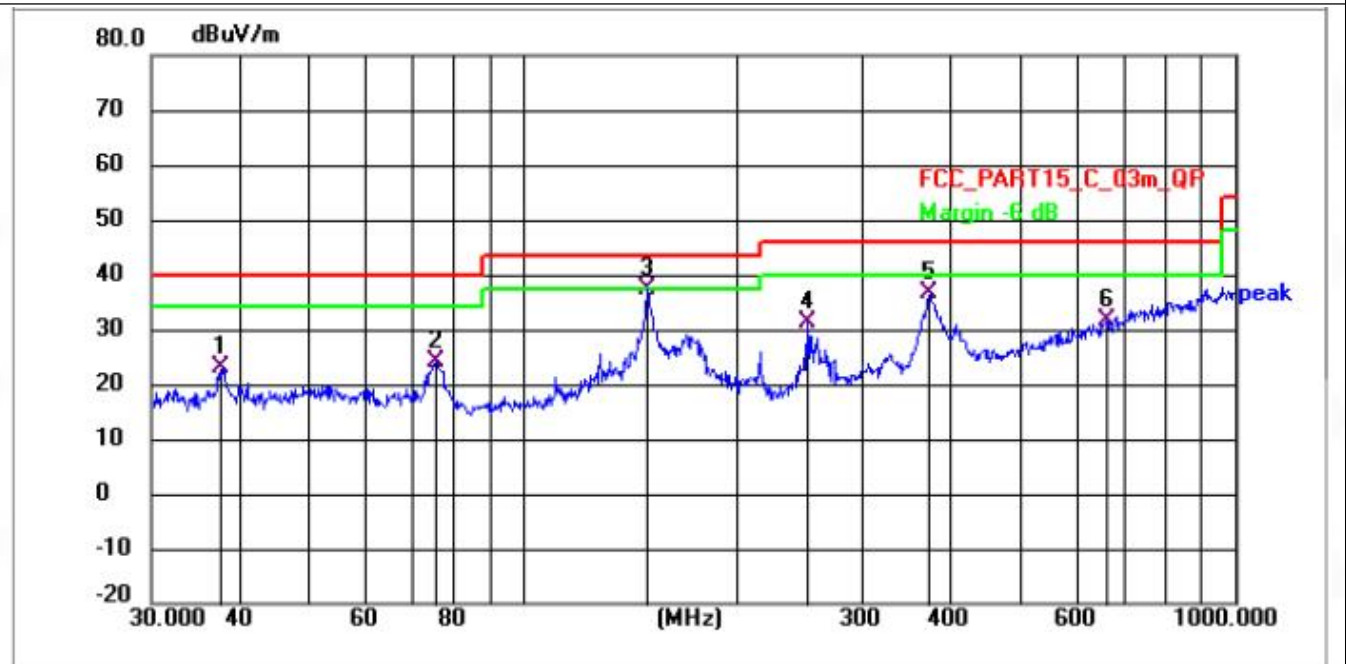
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log(\text{specific distance/test distance})(\text{dB})$;

Limit line = specific limits (dBuV) + distance extrapolation factor.

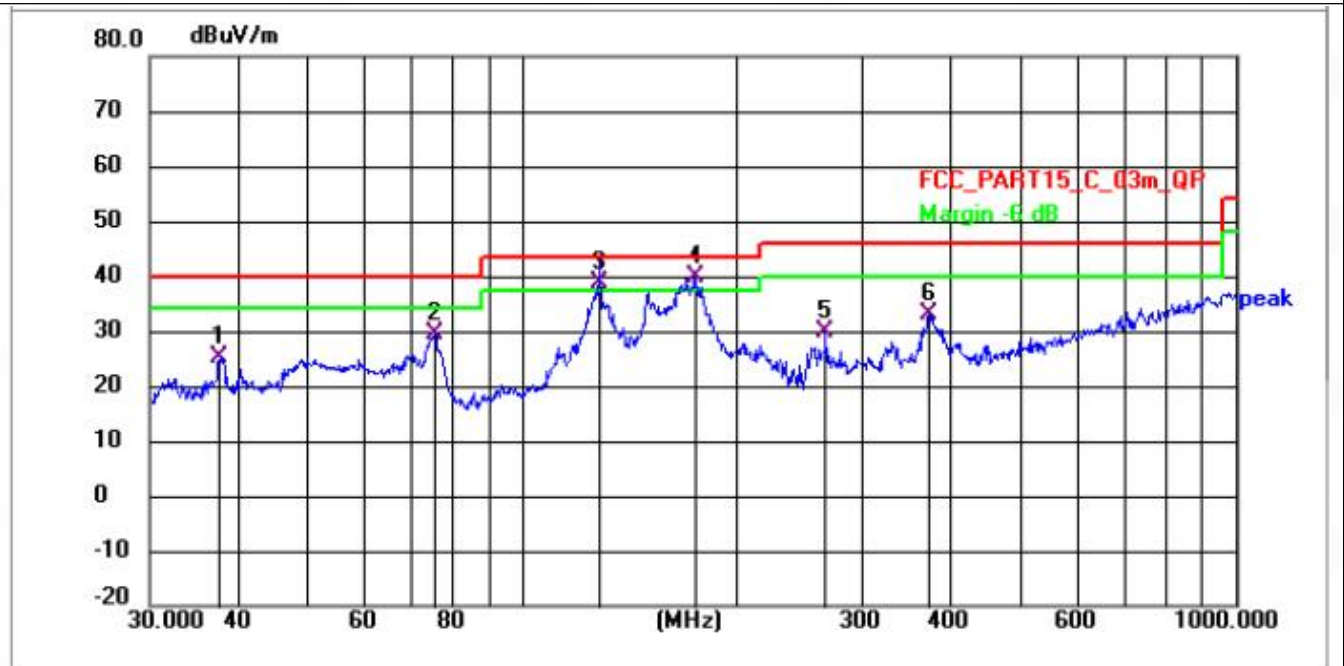
Adapter1: XED-ULPD20W

TM3 / 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
1	37.6797	32.70	-9.59	23.11	40.00	-16.89	QP	Pass
2	75.1822	36.36	-12.30	24.06	40.00	-15.94	QP	Pass
3 *	149.2238	45.72	-8.40	37.32	43.50	-6.18	QP	Pass
4	250.7404	40.02	-8.69	31.33	46.00	-14.67	QP	Pass
5	373.3112	41.42	-4.87	36.55	46.00	-9.45	QP	Pass
6	657.6820	28.33	3.37	31.70	46.00	-14.30	QP	Pass

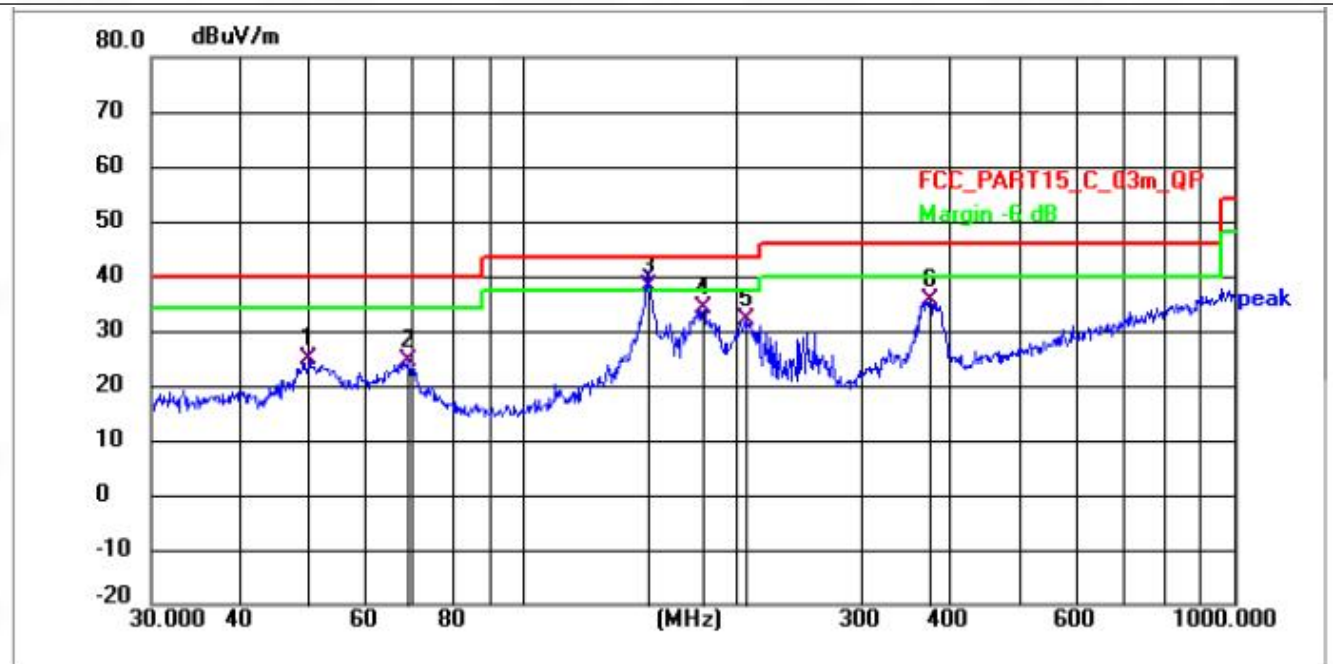
TM3 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	37.6797	34.84	-9.59	25.25	40.00	-14.75	QP	Pass
2	75.1822	41.72	-12.30	29.42	40.00	-10.58	QP	Pass
3 !	128.1130	48.07	-9.17	38.90	43.50	-4.60	QP	Pass
4 *	174.4240	48.75	-9.08	39.67	43.50	-3.83	QP	Pass
5	265.2102	38.28	-8.45	29.83	46.00	-16.17	QP	Pass
6	373.3112	38.07	-4.87	33.20	46.00	-12.80	QP	Pass

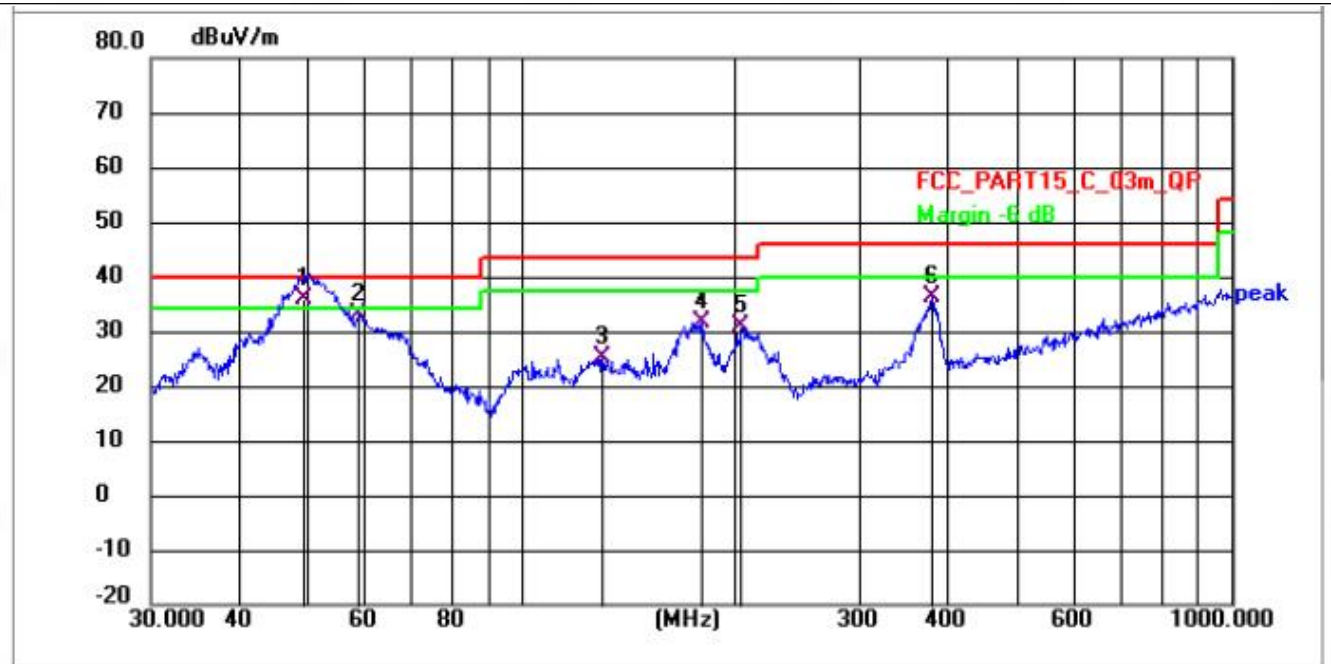
Adapter2: FX202U

TM3 / 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
1	50.1445	33.86	-9.20	24.66	40.00	-15.34	QP	Pass
2	68.8721	35.73	-11.10	24.63	40.00	-15.37	QP	Pass
3 *	149.7480	46.34	-8.44	37.90	43.50	-5.60	QP	Pass
4	179.7011	44.28	-10.16	34.12	43.50	-9.38	QP	Pass
5	205.6751	41.74	-9.71	32.03	43.50	-11.47	QP	Pass
6	373.9663	40.30	-4.91	35.39	46.00	-10.61	QP	Pass

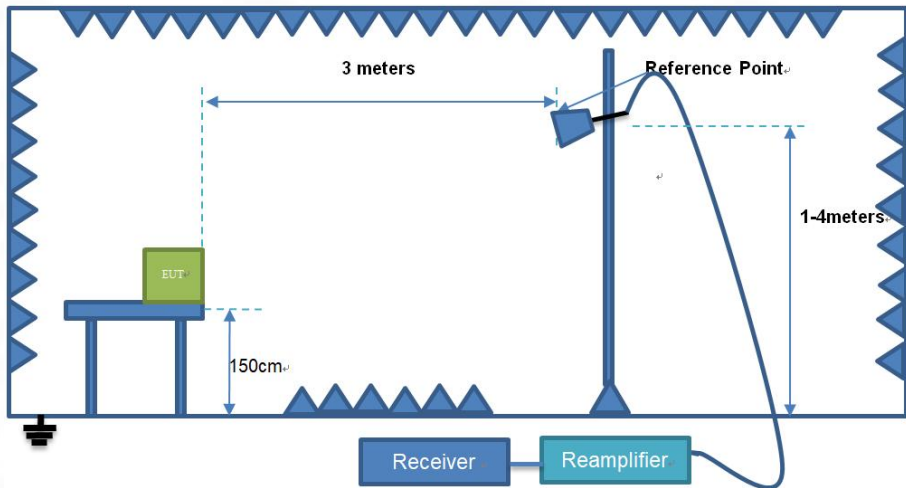
TM3 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	49.2730	45.13	-9.13	36.00	40.00	-4.00	QP	Pass
2	59.0251	42.15	-9.22	32.93	40.00	-7.07	QP	Pass
3	129.9225	34.09	-8.87	25.22	43.50	-18.28	QP	Pass
4	179.0721	40.92	-9.42	31.50	43.50	-12.00	QP	Pass
5	204.2377	40.85	-9.89	30.96	43.50	-12.54	QP	Pass
6	377.9211	41.41	-5.16	36.25	46.00	-9.75	QP	Pass

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -amplifier gain-Limit

6.4 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 Method:	ANSI C63.10-2020+C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
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.		
Procedure:	ANSI C63.10-2020 section 6.5.4		
Test Setup:			
Operating Environment:			
Temperature:	25.7 °C		
Humidity:	52.8 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	DC 7.2V From Battery		

6.4.1 Test Data

Remark: The report only reflects the test data of worst mode TM3

Test Channel: Lowest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4804.00	98.69	-48.89	49.81	74.00	-24.19	Peak	Pass
4804.00	88.49	-48.89	39.61	54.00	-14.39	AVG	Pass
7206.00	95.60	-47.02	48.57	74.00	-25.43	Peak	Pass
7206.00	84.95	-47.02	37.92	54.00	-16.08	AVG	Pass
Test Channel: Lowest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4804.00	98.36	-48.89	49.48	74.00	-24.52	Peak	Pass
4804.00	87.68	-48.89	38.79	54.00	-15.21	AVG	Pass
7206.00	95.37	-47.02	48.35	74.00	-25.65	Peak	Pass
7206.00	85.03	-47.02	38.01	54.00	-15.99	AVG	Pass
Test Channel: Middle channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4882.00	99.76	-48.84	50.93	74.00	-23.07	Peak	Pass
4882.00	89.37	-48.84	40.53	54.00	-13.47	AVG	Pass
7323.00	95.28	-46.88	48.39	74.00	-25.61	Peak	Pass
7323.00	85.63	-46.88	38.75	54.00	-15.25	AVG	Pass
Test Channel: Middle channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4882.00	99.06	-48.84	50.23	74.00	-23.77	Peak	Pass
4882.00	88.58	-48.84	39.74	54.00	-14.26	AVG	Pass
7323.00	96.29	-46.88	49.40	74.00	-24.60	Peak	Pass
7323.00	86.45	-46.88	39.57	54.00	-14.43	AVG	Pass

Test Channel: Highest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4960.00	99.59	-48.79	50.80	74.00	-23.20	Peak	Pass
4960.00	88.73	-48.79	39.95	54.00	-14.05	AVG	Pass
7440.00	94.92	-46.74	48.18	74.00	-25.82	Peak	Pass
7440.00	85.39	-46.74	38.65	54.00	-15.35	AVG	Pass
Test Channel: Highest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4960.00	99.56	-48.79	50.77	74.00	-23.23	Peak	Pass
4960.00	88.96	-48.79	40.18	54.00	-13.82	AVG	Pass
7440.00	95.76	-46.74	49.02	74.00	-24.98	Peak	Pass
7440.00	86.26	-46.74	39.52	54.00	-14.48	AVG	Pass

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -amplifier gain-Limit

7 Test Setup Photos

Please refer to Appendix I Test Setup Photos.

8 EUT Constructional Details (EUT Photos)

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



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-- END OF REPORT --