FCC TEST REPORT

For

Shenzhen Uer Technology Innovation Co., Ltd

Wireless Charger Night Light

Test Model: YD-03

Additional Model No.: TX2230

Prepared for	:	Shenzhen Uer Technology Innovation Co., Ltd
Address	:	A612, Block A, Mingyou Procurement Center, Yuye Community, Xixiang Street, Bao’an District, Shenzhen, China
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
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Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	January 29, 2024
Number of tested samples	:	2
Serial number	:	A240125094-1(Engineer sample), A240125094-2(Normal sample)
Date of Test	:	January 29, 2024 ~ February 03, 2024
Date of Report	:	February 04, 2024

FCC TEST REPORT
FCC CFR 47 PART 15C

Report Reference No.	**:**	**LCSA01244104EA**
Date Of Issue.....	:	February 04, 2024
Testing Laboratory Name.....	**:**	**Shenzhen LCS Compliance Testing Laboratory Ltd.**
Address.....	:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China
Testing Location/ Procedure.....	:	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name.....	**:**	**Shenzhen Uer Technology Innovation Co., Ltd**
Address.....	:	A612, Block A, Mingyou Procurement Center, Yuye Community, Xixiang Street, Bao' an District, Shenzhen, China
Test Specification		
Standard.....	:	FCC CFR 47 PART 15C
Test Report Form No.....	:	LCSEMC-1.0
TRF Originator.....	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF.....	:	Dated 2011-03

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Test Item Description.....	**:**	**Wireless Charger Night Light**
Trade Mark.....	:	N/A
Test Model.....	:	YD-03
Power Supply.....	:	Type-C Input: 12V⎓2.5A USB Output: 5V⎓1A For AC Adapter Input: 100-240V~, 50/60Hz, 0.8A Max Adapter Output: 12V⎓2.5A Wireless Charging Power Coil 1: 3W Wireless Charging Power Coil 2: 3W Wireless Charging Power Coil 3: 10W
Result	**:**	**Positive**

Compiled by:	Supervised by:	Approved by:
Kevin Huang	Cary Luo	Gavin Liang
Kevin Huang/ Administrator	Cary Luo/ Technique principal	Gavin Liang/ Manager

FCC TEST REPORT

Test Report No. : **LCSA01244104EA**	February 04, 2024 Date of issue

Test Model.....	: YD-03
EUT.....	: Wireless Charger Night Light
Applicant.....	**: Shenzhen Uer Technology Innovation Co., Ltd**
Address.....	: A612, Block A, Mingyou Procurement Center, Yuye Community, Xixiang Street, Bao’an District, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	**: Shenzhen Uer Technology Innovation Co., Ltd**
Address.....	: A612, Block A, Mingyou Procurement Center, Yuye Community, Xixiang Street, Bao’an District, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Factory.....	**: Shenzhen Uer Technology Innovation Co., Ltd**
Address.....	: A612, Block A, Mingyou Procurement Center, Yuye Community, Xixiang Street, Bao’an District, Shenzhen, China
Telephone.....	: /
Fax.....	: /

Test Result	**Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	February 04, 2024	Initial Issue	--

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	: Wireless Charger Night Light
Test Model	: YD-03
Additional Model No.	: TX2230
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	: Type-C Input: 12V⎓2.5A USB Output: 5V⎓1A For AC Adapter Input: 100-240V~, 50/60Hz, 0.8A Max Adapter Output: 12V⎓2.5A Wireless Charging Power Coil 1: 3W Wireless Charging Power Coil 2: 3W Wireless Charging Power Coil 3: 10W
Hardware Version	: /
Software Version	: /
Wireless Charging	:
Operating Frequency	: 111.0~205.0KHz
Modulation Type	: ASK
Antenna Type	: Coil Antenna

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
---	AC ADAPTER	WH030A-1202500 U	---	FCC
HONOR	phone	V30Pro	---	FCC
Apple	TWS Earphone	--	---	FCC
MI	Watch	MW1	---	FCC

Note: The phone and TWS Earphone and Watch is supplied by lab and only use tested.

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
Type-C USB Port	1	N/A
USB Port	1	N/A

1.4 Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5 Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6 Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	3.10dB	(1)
		30MHz~200MHz	2.96dB	(1)
		200MHz~1000MHz	3.10dB	(1)
		1GHz~26.5GHz	3.80dB	(1)
		26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	1.63dB	(1)
Power disturbance	:	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7 Description of Test Modes

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

Modulation Type: ASK

Test Modes		
Mode 1	AC/DC Adapter(12V/2.5A)+EUT+mobile phone+TWS Earphone+Watch(Battery Status: <1%)	Record
Mode 2	AC/DC Adapter(12V/2.5A)+EUT+mobile phone+TWS Earphone+Watch(Battery Status: <50%)	Pre-tested
Mode 3	AC/DC Adapter(12V/2.5A)+EUT+mobile phone+TWS Earphone+Watch(Battery Status: 100%)	Pre-tested
Mode 4	AC/DC Adapter(12V/2.5A)+EUT+mobile phone+TWS Earphone(Battery Status: <1%)	Pre-tested
Mode 5	AC/DC Adapter(12V/2.5A)+EUT+mobile phone+TWS Earphone(Battery Status: <50%)	Pre-tested
Mode 6	AC/DC Adapter(12V/2.5A)+EUT+mobile phone+TWS Earphone(Battery Status: 100%)	Pre-tested
Mode 7	AC/DC Adapter(12V/2.5A)+EUT+mobile phone+Watch(Battery Status: <1%)	Pre-tested
Mode 8	AC/DC Adapter(12V/2.5A)+EUT+mobile phone+Watch(Battery Status: <50%)	Pre-tested
Mode 9	AC/DC Adapter(12V/2.5A)+EUT+mobile phone+Watch(Battery Status: 100%)	Pre-tested
Mode 10	AC/DC Adapter(12V/2.5A)+EUT+TWS Earphone+Watch(Battery Status: <1%)	Pre-tested
Mode 11	AC/DC Adapter(12V/2.5A)+EUT+TWS Earphone+Watch(Battery Status: <50%)	Pre-tested
Mode 12	AC/DC Adapter(12V/2.5A)+EUT+TWS Earphone+Watch(Battery Status: 100%)	Pre-tested
Mode 13	AC/DC Adapter(12V/2.5A)+EUT+mobile phone(Battery Status: <1%)	Pre-tested
Mode 14	AC/DC Adapter(12V/2.5A)+EUT+mobile phone(Battery Status: <50%)	Pre-tested
Mode 15	AC/DC Adapter(12V/2.5A)+EUT+mobile phone(Battery Status: 100%)	Pre-tested
Mode 16	AC/DC Adapter(12V/2.5A)+EUT+TWS Earphone(Battery Status: <1%)	Pre-tested
Mode 17	AC/DC Adapter(12V/2.5A)+EUT+TWS Earphone(Battery Status: <50%)	Pre-tested
Mode 18	AC/DC Adapter(12V/2.5A)+EUT+TWS Earphone(Battery Status: 100%)	Pre-tested

Mode 19	AC/DC Adapter(12V/2.5A)+EUT+Watch(Battery Status: <1%)	Pre-tested
Mode 20	AC/DC Adapter(12V/2.5A)+EUT+Watch(Battery Status: <50%)	Pre-tested
Mode 21	AC/DC Adapter(12V/2.5A)+EUT+Watch(Battery Status: 100%)	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR PART 15C 15.207.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the normal operating mode and a continuous transmits mode for other tests.

According to its specifications, the EUT must comply with the requirements of the Section 15.207 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013

2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(A240125094-1)	Engineer sample – continuous transmit
Sample 2(A240125094-2)	Normal sample – Intermittent transmit

3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a normal condition.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/ unshielded	Notes
/	/	/	/	/	/	/	/

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2023-10-18	2024-10-17
2	DC Power Supply	Agilent	E3642A	N/A	2023-10-18	2024-10-17
3	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2023-10-05	2024-10-04
4	EMI Test Software	AUDIX	E3	/	N/A	N/A
5	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2023-06-09	2024-06-08
6	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
10	EMI Test Receiver	R&S	ESR 7	101181	2023-08-15	2024-08-14
11	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2023-07-17	2024-07-16
12	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2023-10-18	2024-10-17
13	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2023-10-18	2024-10-17
14	EMI Test Receiver	R&S	ESPI	101940	2023-08-15	2024-08-14
15	Artificial Mains	R&S	ENV216	101288	2023-06-09	2024-06-08
16	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2023-06-09	2024-06-08
17	EMI Test Software	Farad	EZ	/	N/A	N/A

5. SUMMARY OF TEST RESULT

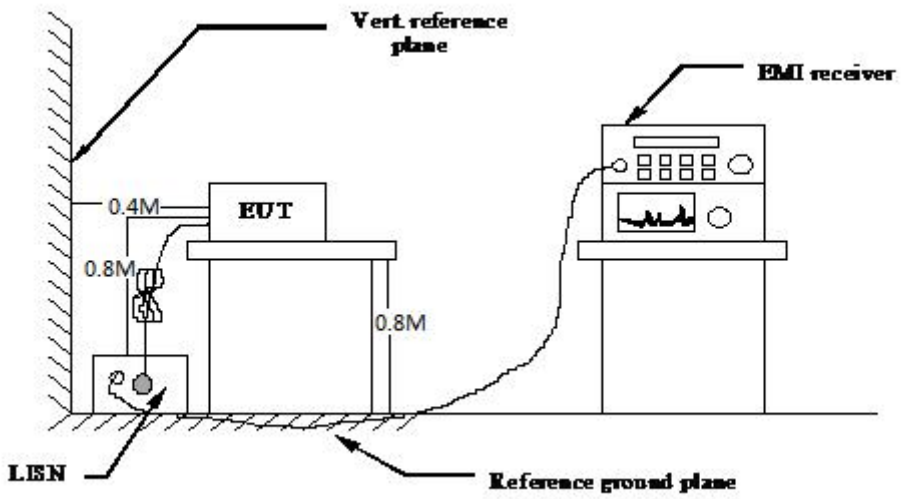
FCC Rules	Description of Test	Test Sample	Result
§15.207(a)	AC Conducted Emissions	Sample 1	Compliant
§15.209	Radiated Spurious Emissions	Sample 1	Compliant
§15.215	20 dB Bandwidth	Sample 1	Compliant

Remark: The measurement uncertainty is not included in the test result.

N/A – Not Applicable!!!

6. POWER LINE CONDUCTED MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. Standard Applicable

According to §15.207: For all the consumer devices which 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

6.3 Test Results

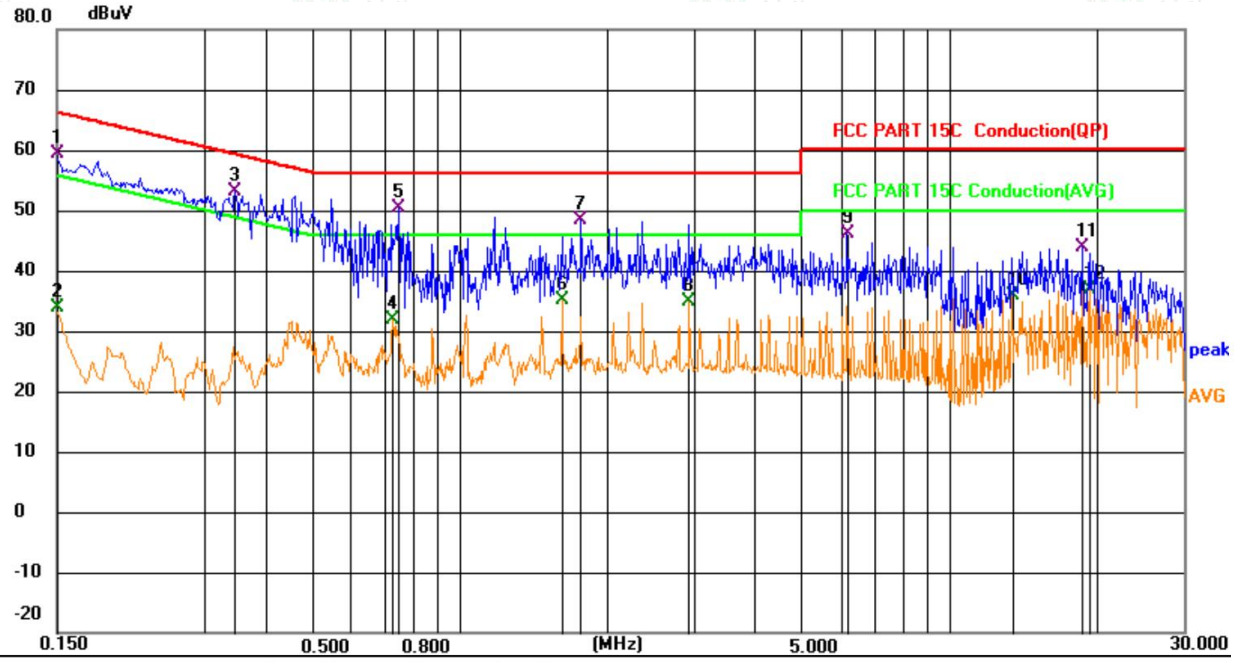
PASS

The test data please refer to following page.

Temperature	24.4℃	Humidity	53.0%
Test Engineer	Jay Luo	Configurations	Transmit

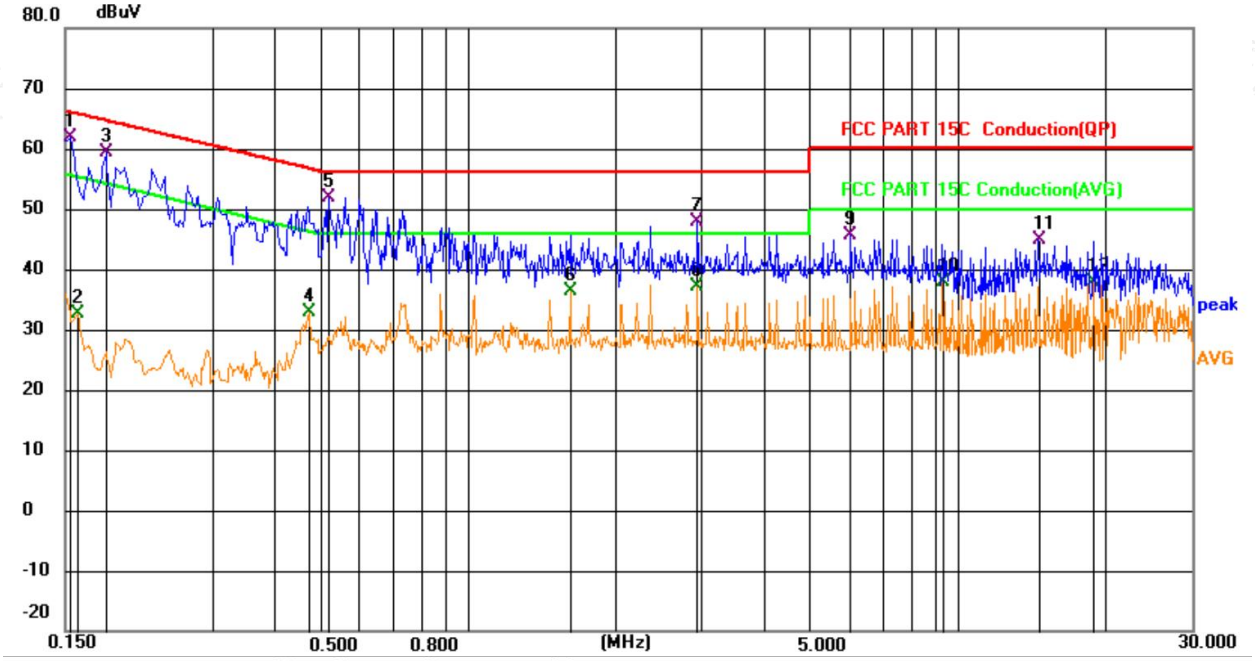
AC Power Line Conducted Emission (Power input to adapter @ AC 120V/60Hz (Worst Case))

Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	39.04	20.22	59.26	66.00	-6.74	QP	
2		0.1500	13.66	20.22	33.88	56.00	-22.12	AVG	
3		0.3481	32.92	20.21	53.13	59.01	-5.88	QP	
4		0.7304	11.80	20.07	31.87	46.00	-14.13	AVG	
5	*	0.7485	30.26	20.08	50.34	56.00	-5.66	QP	
6		1.6169	14.94	20.17	35.11	46.00	-10.89	AVG	
7		1.7655	28.11	20.17	48.28	56.00	-7.72	QP	
8		2.9401	14.47	20.33	34.80	46.00	-11.20	AVG	
9		6.1845	26.04	19.98	46.02	60.00	-13.98	QP	
10		13.4025	15.55	20.41	35.96	50.00	-14.04	AVG	
11		18.7036	23.14	20.82	43.96	60.00	-16.04	QP	
12		19.2930	16.13	20.86	36.99	50.00	-13.01	AVG	

Neutral

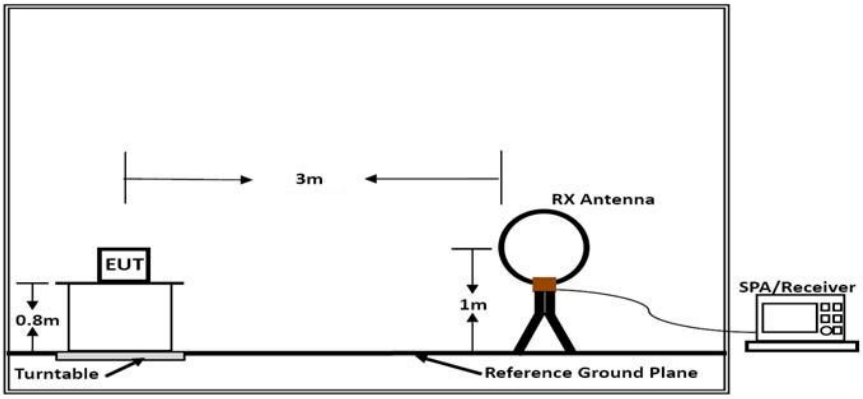


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1544	41.91	19.95	61.86	65.76	-3.90	QP	
2		0.1590	12.77	19.96	32.73	55.52	-22.79	AVG	
3		0.1816	39.36	20.01	59.37	64.41	-5.04	QP	
4		0.4741	13.11	19.80	32.91	46.44	-13.53	AVG	
5		0.5191	32.03	19.79	51.82	56.00	-4.18	QP	
6		1.6125	16.25	20.18	36.43	46.00	-9.57	AVG	
7		2.9401	27.61	20.18	47.79	56.00	-8.21	QP	
8		2.9401	16.86	20.18	37.04	46.00	-8.96	AVG	
9		6.0316	25.53	20.19	45.72	60.00	-14.28	QP	
10		9.2670	17.40	20.36	37.76	50.00	-12.24	AVG	
11		14.5635	24.92	19.96	44.88	60.00	-15.12	QP	
12		18.9781	17.56	20.43	37.99	50.00	-12.01	AVG	

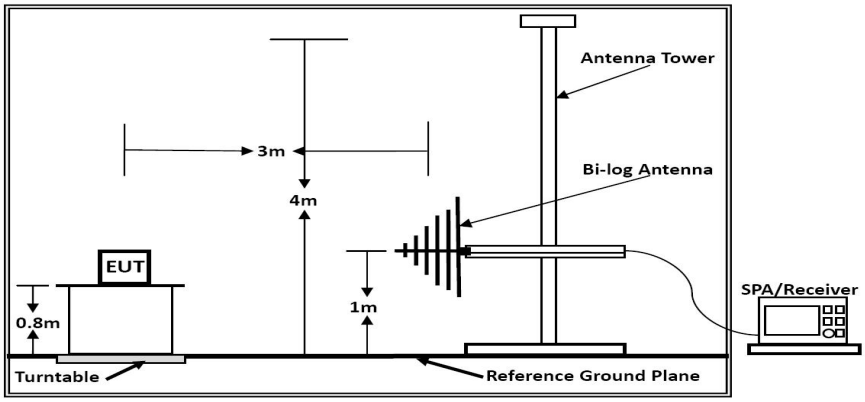
****Note: Pre-scan all modes and recorded the worst case results in this report.*
Margin=Reading level + Correct - Limit; Correct Factor= Lisn Factor+Cable Factor

7. RADIATED EMISSION MEASUREMENT

7.1. Block Diagram of Test Setup



Below 30MHz



Below 1GHz

7.2. Radiated Emission Limit

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 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	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	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	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			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (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

7.3. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

(1) Setup the EUT as shown in Section 7.1.

7.5. Measuring Setting

The following table is the setting of spectrum analyzer and receiver.

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/Average
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/Average
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

7.6. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 1.0 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

7.7. Test Results

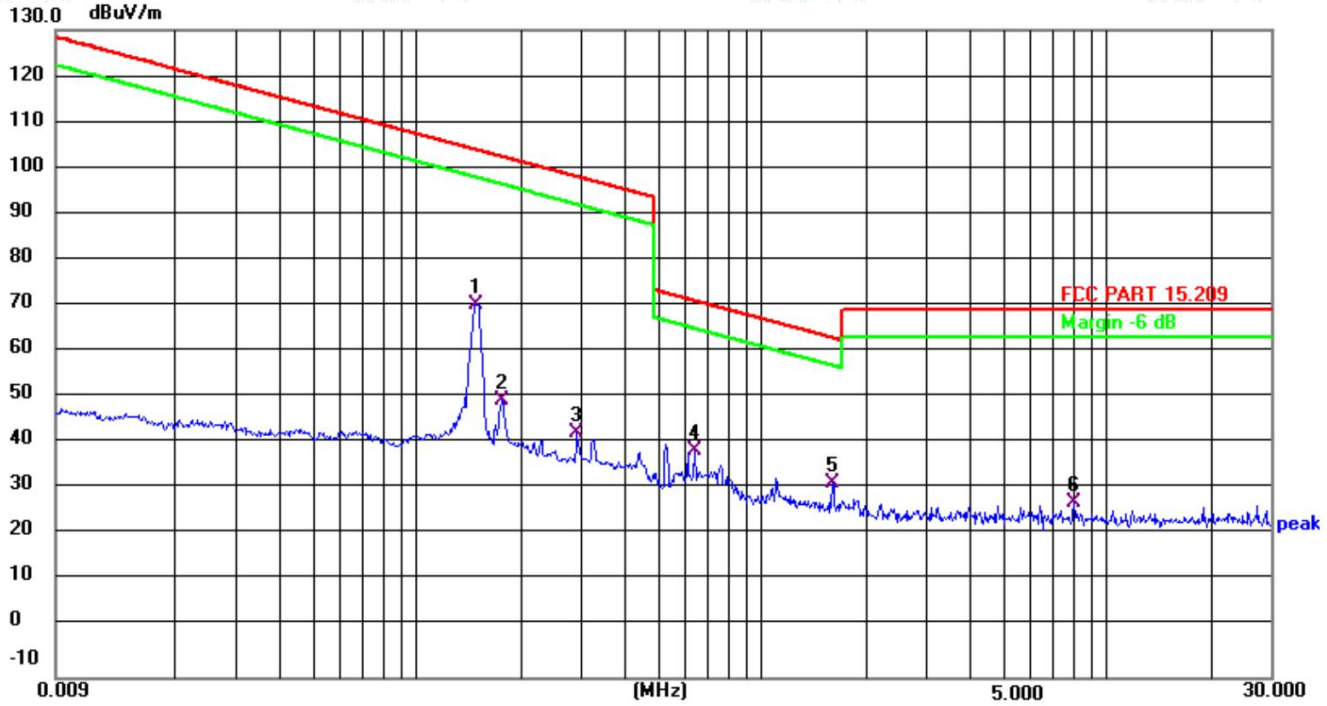
PASS.

Only report the worst test data (Mode 1) in test report;

The test data please refer to following page:

Temperature	23.6℃	Humidity	52.2%
Test Engineer	Jay Luo	Configurations	Transmit

0.009 MHz – 30 MHz
0 degree



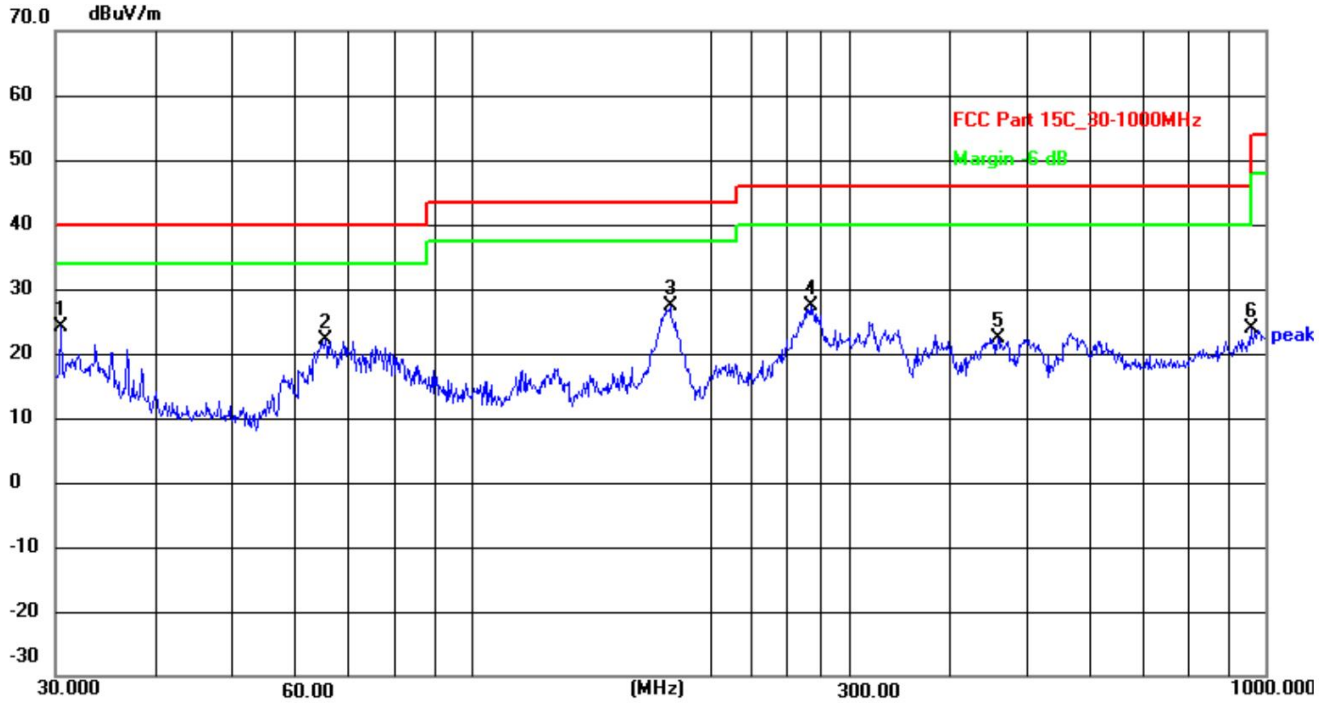
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1477	80.53	-9.77	70.76	104.16	-33.40	QP
2	0.1766	59.83	-9.77	50.06	102.61	-52.55	QP
3	0.2921	52.61	-9.75	42.86	98.27	-55.41	QP
4	0.6411	48.62	-9.57	39.05	71.47	-32.42	QP
5	1.6045	41.36	-9.32	32.04	63.50	-31.46	QP
6	8.0614	37.64	-9.50	28.14	69.54	-41.40	QP

Remark: 1). Measured at antenna position 0 degree and 90 degree, recorded worst case at 0 degree.
2). Margin=Reading level + Factor- Limit

Temperature	23.8℃	Humidity	52.1%
Test Engineer	Jay Luo	Configurations	Transmit

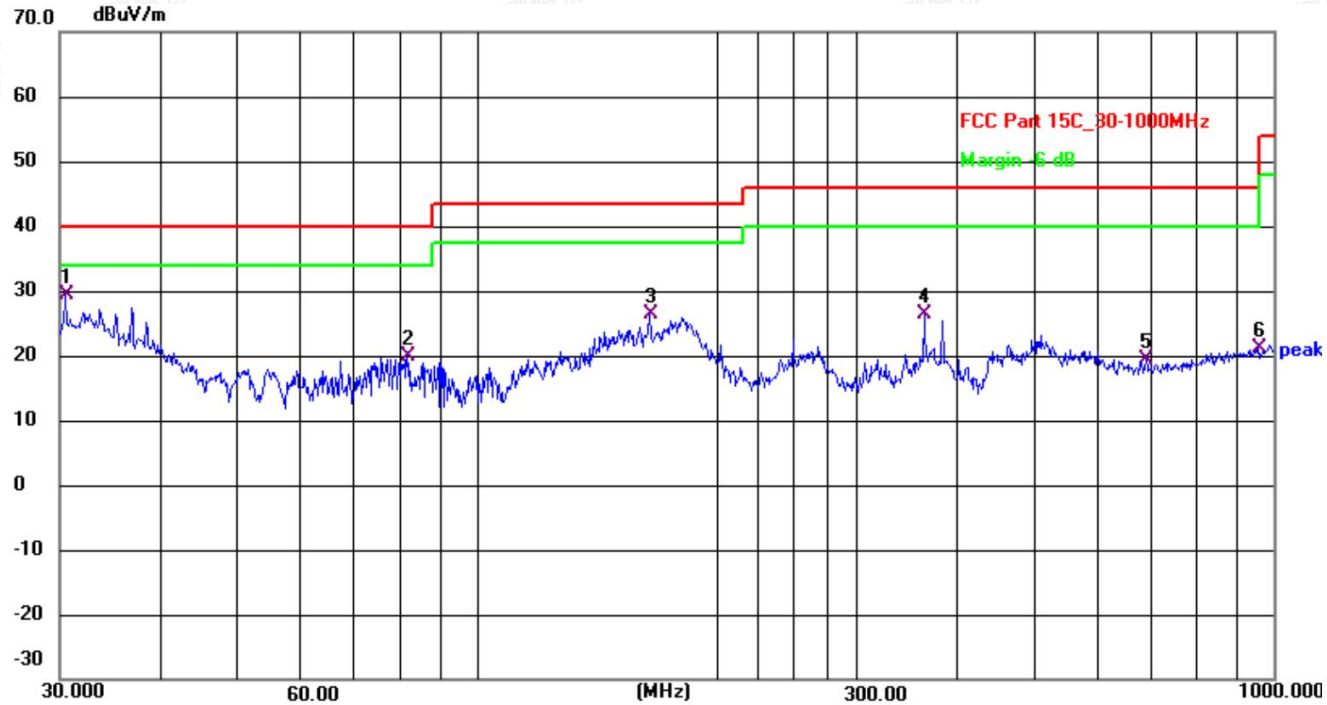
Below 1GHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.4238	42.55	-18.40	24.15	40.00	-15.85	QP
2	65.5727	41.31	-19.19	22.12	40.00	-17.88	QP
3	178.1327	46.17	-18.85	27.32	43.50	-16.18	QP
4	267.5455	42.74	-15.43	27.31	46.00	-18.69	QP
5	460.7271	36.65	-14.31	22.34	46.00	-23.66	QP
6	958.7943	31.67	-7.75	23.92	46.00	-22.08	QP

Vertical



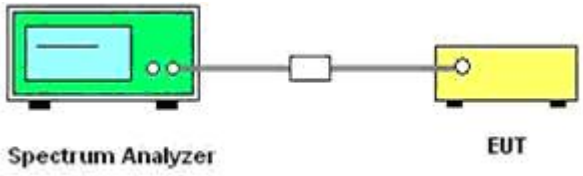
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.5306	47.83	-18.39	29.44	40.00	-10.56	QP
2	81.7832	39.46	-19.70	19.76	40.00	-20.24	QP
3	164.9074	46.04	-19.61	26.43	43.50	-17.07	QP
4	364.2595	41.09	-14.80	26.29	46.00	-19.71	QP
5	691.9865	30.22	-10.96	19.26	46.00	-26.74	QP
6	955.4381	29.20	-8.08	21.12	46.00	-24.88	QP

1). Emission level (dBuV/m) = 20 log Emission level (uV/m).

2). Margin=Reading level + Factor- Limit.
Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor

8. 20 DB BANDWIDTH MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. Test Procedure

Use the following spectrum analyzer settings:

Span = 500Hz

RBW = 100Hz

VBW = 300Hz

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

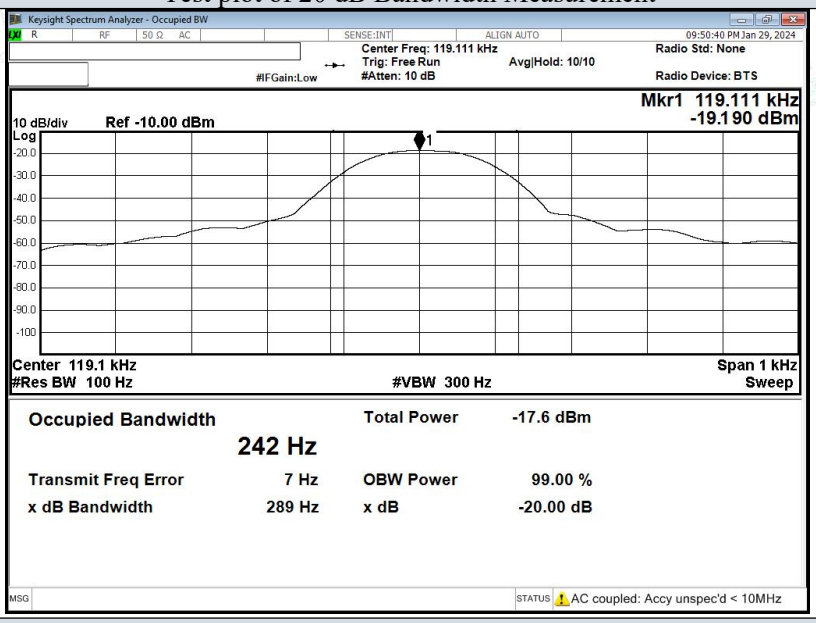
8.3. Test Results

Test Result Of 20dB Bandwidth Measurement			
Test Mode	Test Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)
TM1	0.1191	0.242	Non-Specified
TM1	0.1337	0.266	Non-Specified
TM1	0.1287	0.252	Non-Specified

Result: Pass

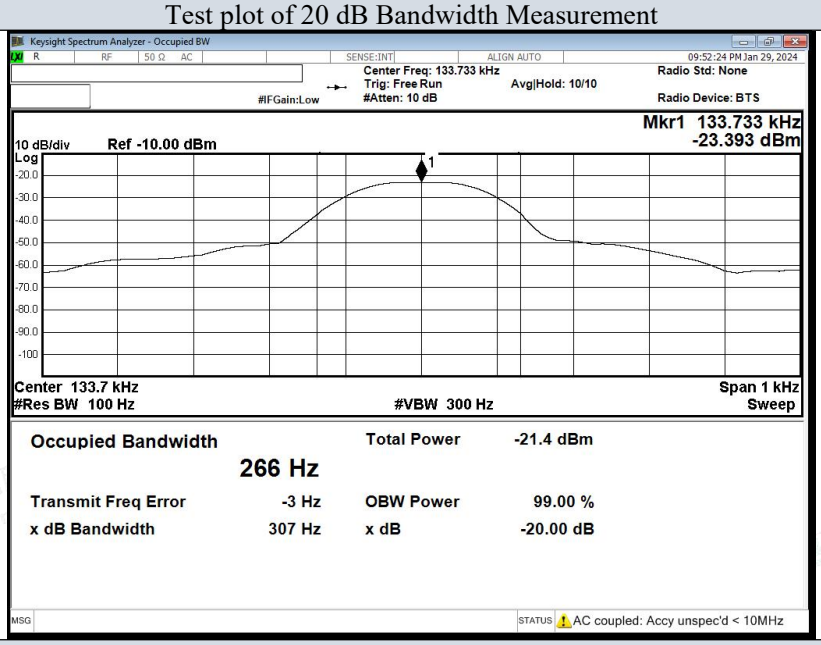
Please refer to the following page for test plot.

Test plot of 20 dB Bandwidth Measurement



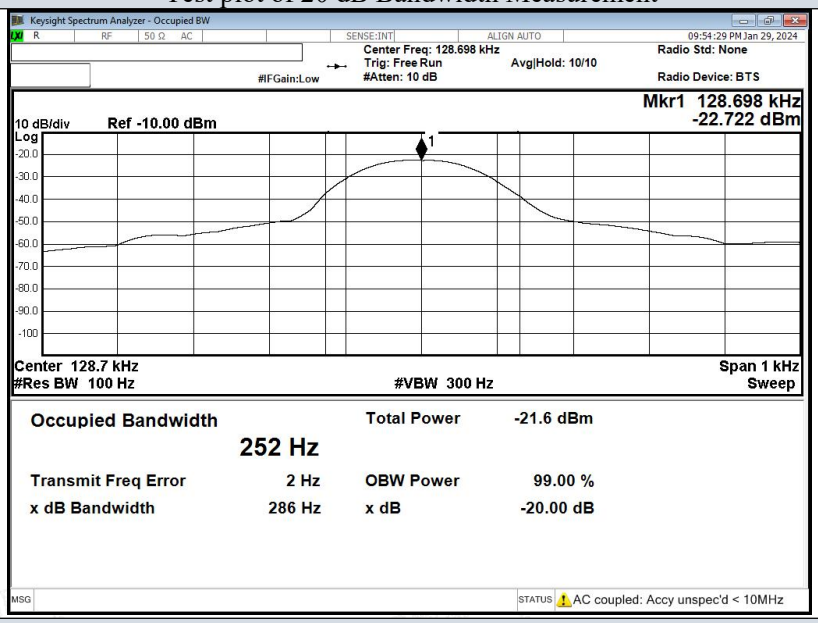
0.1191MHz

Test plot of 20 dB Bandwidth Measurement



0.1337MHz

Test plot of 20 dB Bandwidth Measurement



0.1287MHz

9. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files for Test Setup Photos of the EUT.

10. EXTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

11. INTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

----------THE END OF REPORT----------