

TEST REPORT

Product Name : Wireless Transmission System
TT122, TT123, TT124, TT125, TT126,
Model Number : TT127, TT128, TT129, TT130, TT131,
TT132, TT133, TT134, TT135, TT136,
TT137, TT138, TT139, TT140
FCC ID: : 2AAR8TT122A

Prepared for : HENAN ESHOW ELECTRONIC COMMERCE CO., LTD
Address : Room 722, Sanjiang Building, No.170 Nanyang Road, Huiji
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Report Number : ES201028008E
Date(s) of Tests : Nov. 16, 2020 to Dec. 16, 2020
Date of issue : Dec. 16, 2020

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TEST REPORT DESCRIPTION

Applicant : HENAN ESHOW ELECTRONIC COMMERCE CO., LTD
Address : Room 722, Sanjiang Building, No.170 Nanyang Road, Huiji District, Zhengzhou, Henan, China
Manufacturer : HENAN ESHOW ELECTRONIC COMMERCE CO., LTD
Address : Room 722, Sanjiang Building, No.170 Nanyang Road, Huiji District, Zhengzhou, Henan, China
EUT : Wireless Transmission System
Model Name : TT122, TT123, TT124, TT125, TT126, TT127, TT128, TT129, TT130, TT131, TT132, TT133, TT134, TT135, TT136, TT137, TT138, TT139, TT140
Trademark : RETEKESS

Measurement Procedure Used:

FCC Rules and Regulations Part 15:2017 Subpart B
ANSI C63.4-2014

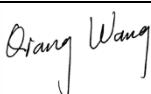
The device described above is tested by EMTEK (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and EMTEK (SHENZHEN) CO., LTD. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment under Test) is technically compliant with the FCC requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (SHENZHEN) CO., LTD.

Date of Test :

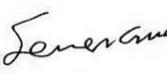
Nov. 16, 2020 to Dec. 16, 2020

Prepared by :


Qiang Wang

Qiang Wang /Editor

Reviewer :


Sewen Guo

Sewen Guo /Supervisor *

Approve & Authorized Signer :


Lisa Wang/Manager



Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	ES201028008E	/	Original Version



1. SUMMARY OF TEST RESULTS

EMISSION		
Description of Test Item	Standard & Limits	Results
Conducted Disturbance at Mains Terminals	FCC Part 15, Subpart B- Section 15.107, Class B ANSI C63.4-2014	Pass
Radiated Disturbance	FCC Part 15, Subpart B- Section 15.109, Class B ANSI C63.4-2014	Pass

Note: N/A is an abbreviation for Not Applicable.



2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Wireless Transmission System

Model Number : TT122, TT123, TT124, TT125, TT126, TT127, TT128, TT129, TT130, TT131, TT132, TT133, TT134, TT135, TT136, TT137, TT138, TT139, TT140
(These are identical in the same PCB layout, interior structure and electrical circuits, The only differences are the model name and the color of the housing for commercial purpose. Test sample model: TT122.)

Sample : 1#

Power supply : DC 3.7V,1500mA from battery, DC 5V from adapter

Adapter : Model: DSA-5PF07-05 FUS 050100
Input: 100-240v~50/60Hz 0.2A
Output: DC 5V 1A

Applicant : HENAN ESHOW ELECTRONIC COMMERCE CO., LTD

Address : Room 722, Sanjiang Building, No.170 Nanyang Road, Huiji District, Zhengzhou, Henan, China

Manufacturer : HENAN ESHOW ELECTRONIC COMMERCE CO., LTD

Address : Room 722, Sanjiang Building, No.170 Nanyang Road, Huiji District, Zhengzhou, Henan, China

Date of Received : Nov. 16, 2020

2.2. Input / Output Ports

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Adapter cable	1.0	Unshielded	Without Ferrite
USB cable	0.8	Unshielded	Without Ferrite
Earphone	1.0	Unshielded	Without Ferrite
Microphone	1.0	Unshielded	Without Ferrite

Auxiliary Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/
/	/	/	/
/	/	/	/

Notes:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

2.3. Independent Operation Modes

- A. On
 - 1. Charging
 - 2. TX mode
 - 3. RX mode
- B. Stand-By

2.4. Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Conducted Emission	AC 120V 60Hz	Mode A	Mode A.3
Radiated Emission (Below 1G)	DC 3.7V, AC 120V 60Hz	Mode A	Mode A.3
Radiated Emission (Above 1G)	DC 3.7V, AC 120V 60Hz	Mode A	Mode A.3

2.5. Description of Test Facility

Site Description	Accredited by CNAS, 2018.11.30 The certificate is valid until 2022.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2017) The Certificate Registration Number is L2291
	Accredited by FCC Designation Number: CN1204 Test Firm Registration Number: 882943 Accredited by A2LA, August 25, 2020 The Certificate Registration Number is 4321.01
Name of Firm	Accredited by Industry Canada, November 09, 2018
Site Location	The Conformity Assessment Body Identifier is CN0008
	: EMTEK(SHENZHEN) CO., LTD. : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

2.6. Test Software

Item	Software
Conducted Emission	: EMTEK(Ver.CON-03A1)-Shenzhen
Radiated Emission	: EMTEK(Ver.RA-03A1)-Shenzhen

2.7. Measurement Uncertainty

Test Item	Uncertainty
Conducted Emission Uncertainty	: 3.16dB(9k~150kHz Conduction 2#) 2.90dB(150k-30MHz Conduction 2#)
Radiated Emission Uncertainty (3m Chamber)	: 3.78dB (30M~1GHz Polarize: H) 4.27dB (30M~1GHz Polarize: V) 4.46dB (1~6GHz)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	Test Receiver	Rohde & Schwarz	ESCI	26115-010-0027	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	L.I.S.N.	Rohde & Schwarz	ENV216	101161	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	50Ω Coaxial Switch	Anritsu	MP59B	6100175589	May 16, 2020	1 Year

3.2. For Radiated Emission Measurement

30M-1G Hz:

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Pre-Amplifier	HP	8447F	2944A07999	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Bilog Antenna	Schwarzbeck	VULB9163	142	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Cable	Schwarzbeck	AK9513	ACRX1	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Cable	Rosenberger	N/A	FP2RX2	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Cable	Schwarzbeck	AK9513	CRPX1	May 16, 2020	1 Year

1G-18G Hz:

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	EMI Test Receiver	Rohde & Schwarz	FSV40	132.1-3008K39-100967-AP	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Pre-Amplifier	Lunar EM	LNA1G18-48	J1011131010001	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Horn Antenna	Schwarzbeck	BBHA 9120	1178	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Cable	H+B	SAC-40G-1	414	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Cable	H+B	SUCOFLEX104	MY14871/4	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Cable	H+B	BLU18A-NmSm-6500	D8501	May 16, 2020	1 Year

18G-26.5G Hz:

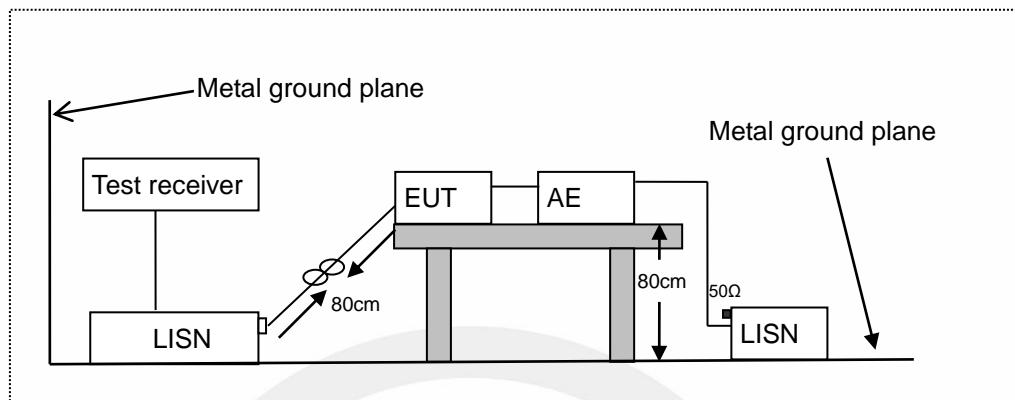
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	EMI Test Receiver	Rohde & Schwarz	FSV40	132.1-3008K39-100967-AP	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Pre-Amplifier	Lunar EM	LNA18G26-40	J1012131010001	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Horn Antenna	Schwarzbeck	BBHA 9170	RS1307229170547	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Cable	A.H	SAC-40G-1	414	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Cable	A.H	SAC-40G-1	413	May 16, 2020	1 Year

26.5G-40G Hz:

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	EMI Test Receiver	Rohde & Schwarz	FSV40	132.1-3008K39-100967-AP	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Pre-Amplifier	Lunar EM	LNA26G40-40	J1013131028001	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Horn Antenna	AHS/USA	SAS-573	184	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Cable	A.H	SAC-40G-1	414	May 16, 2020	1 Year
<input checked="" type="checkbox"/>	Cable	A.H	SAC-40G-1	413	May 16, 2020	1 Year

4. POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network

AE: Associated equipment

EUT: Equipment under test

4.2. Limits

FCC Part 15, Subpart B, Class B

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.
 NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

4.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

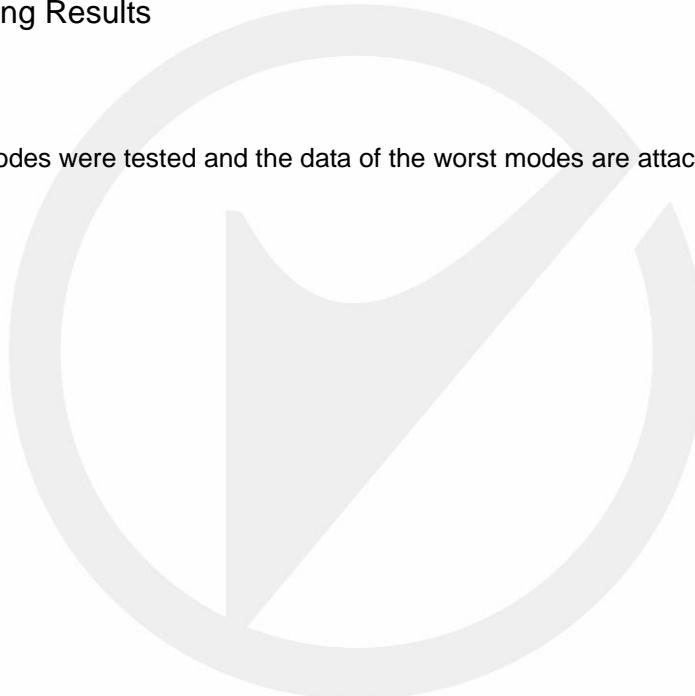
Test results were obtained from the following equation:

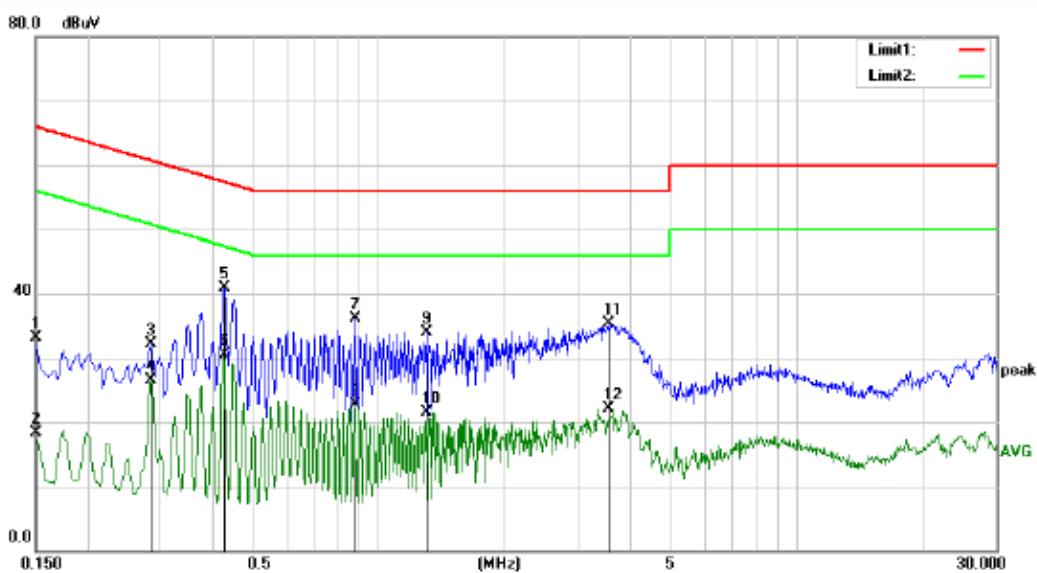
Emission Level (dB μ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB μ V)
Margin (dB) = Emission Level (dB μ V) - Limit (dB μ V)

4.4. Measuring Results

Pass

All the modes were tested and the data of the worst modes are attached the following pages.





Site Conduction #2

 Phase: **L1**

Temperature: 25.0

Limit: (CE)FCC PART 15 class B_QP

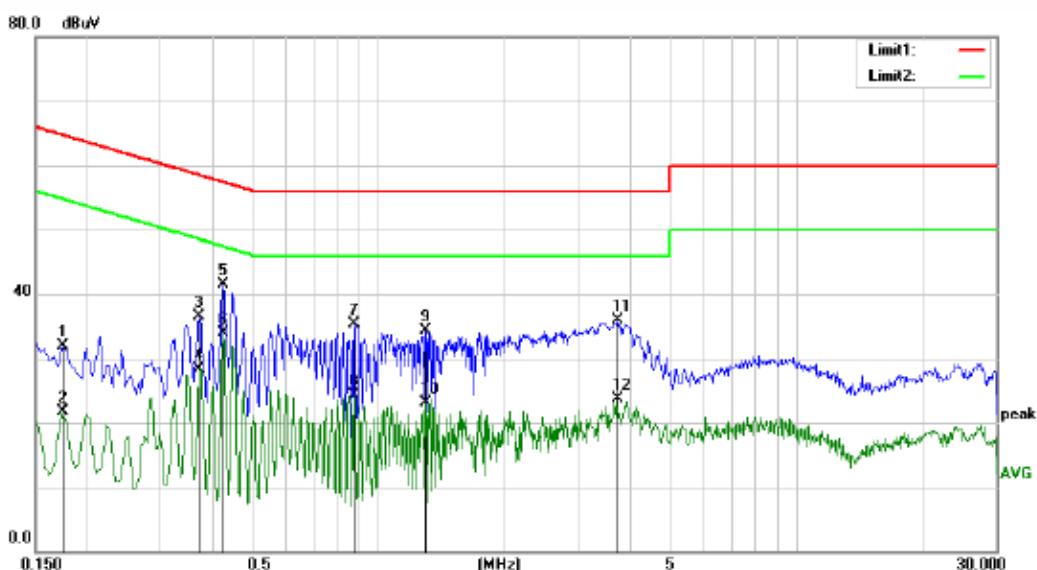
Power: AC 120V/60Hz

Humidity: 49 %

Mode: RX

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Over	
								Detector	Comment
1		0.1500	22.67	10.48	33.15	66.00	-32.85	QP	
2		0.1500	7.75	10.48	18.23	56.00	-37.77	AVG	
3		0.2860	21.70	10.40	32.10	60.64	-28.54	QP	
4		0.2860	16.06	10.40	26.46	50.64	-24.18	AVG	
5 *		0.4260	30.57	10.37	40.94	57.33	-16.39	QP	
6		0.4260	20.07	10.37	30.44	47.33	-16.89	AVG	
7		0.8740	25.69	10.38	36.07	56.00	-19.93	QP	
8		0.8740	12.27	10.38	22.65	46.00	-23.35	AVG	
9		1.2980	23.49	10.39	33.88	56.00	-22.12	QP	
10		1.2980	11.16	10.39	21.55	46.00	-24.45	AVG	
11		3.5420	24.80	10.42	35.22	56.00	-20.78	QP	
12		3.5420	11.76	10.42	22.18	46.00	-23.82	AVG	



Site Conduction #2

Phase:

Temperature: 25.0

Limit: (CE)ECC PART 15 class B QP

Power AC 120V/60Hz

Humidity: 49 %

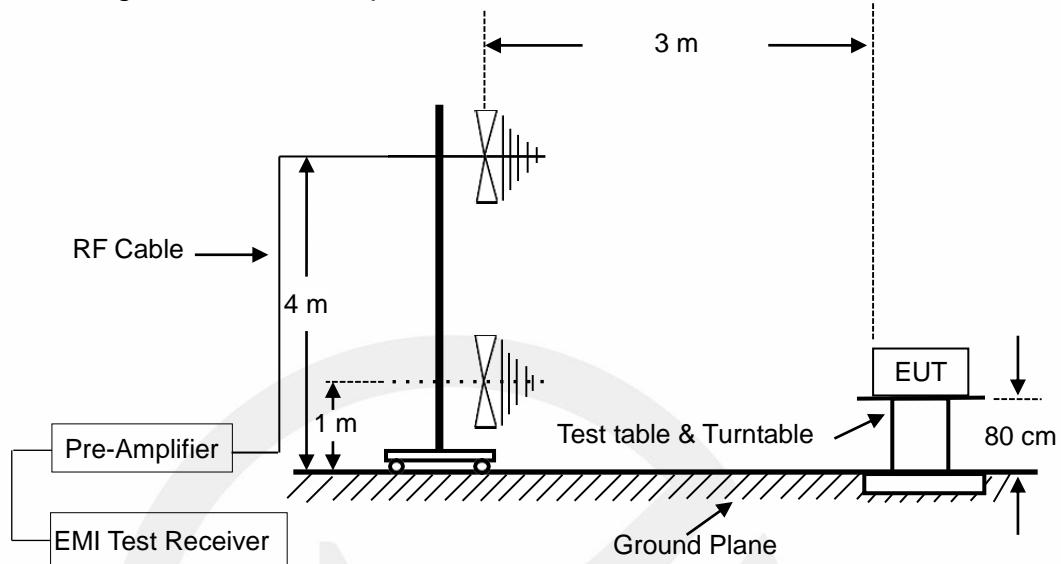
Mode: RX

Note:-

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1740	21.39	10.46	31.85	64.77	-32.92	QP	
2		0.1740	11.28	10.46	21.74	54.77	-33.03	AVG	
3		0.3700	26.05	10.38	36.43	58.50	-22.07	QP	
4		0.3700	17.95	10.38	28.33	48.50	-20.17	AVG	
5		0.4220	31.07	10.38	41.45	57.41	-15.96	QP	
6	*	0.4220	23.51	10.38	33.89	47.41	-13.52	AVG	
7		0.8700	24.94	10.38	35.32	56.00	-20.68	QP	
8		0.8700	13.99	10.38	24.37	46.00	-21.63	AVG	
9		1.2900	23.86	10.39	34.25	56.00	-21.75	QP	
10		1.2900	12.64	10.39	23.03	46.00	-22.97	AVG	
11		3.7260	25.38	10.43	35.81	56.00	-20.19	QP	
12		3.7260	13.25	10.43	23.68	46.00	-22.32	AVG	

5. RADIATED EMISSION MEASUREMENT (UP TO 1GHz)

5.1. Block Diagram of Test Setup



5.2. Radiated Limit

FCC Part 15, Subpart B, Class B

Frequency MHz	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μ V)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

5.3. Test Procedure

The EUT was placed on a non-conductive table whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

The EUT was set 3 meters away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup

representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The bandwidth of the Receiver is set at 120 kHz.

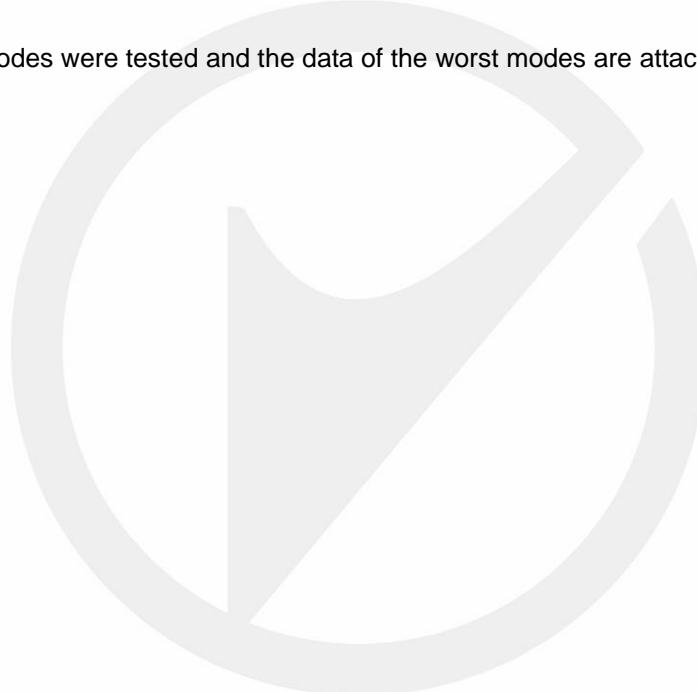
Test results were obtained from the following equation:

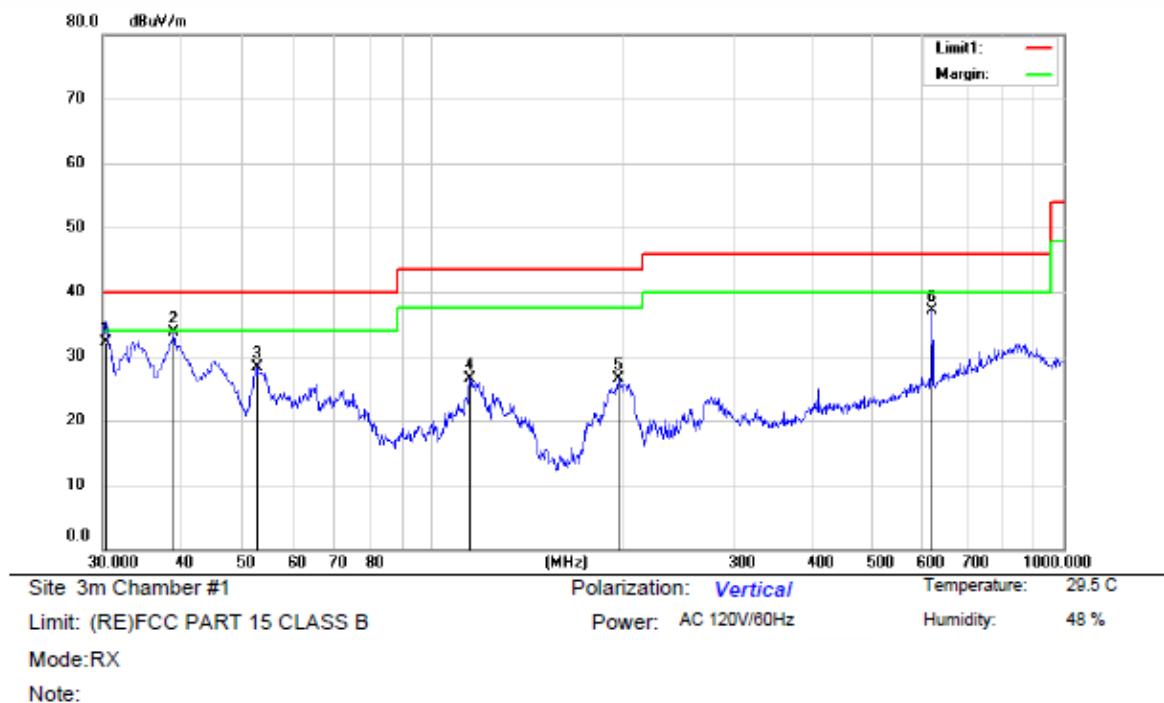
Emission level (dB μ V/m) = Antenna Factor -Amp Factor +Cable Loss + Reading
Margin (dB) = Emission Level (dB μ V/m) - Limit (dB μ V/m)

5.4. Measuring Results

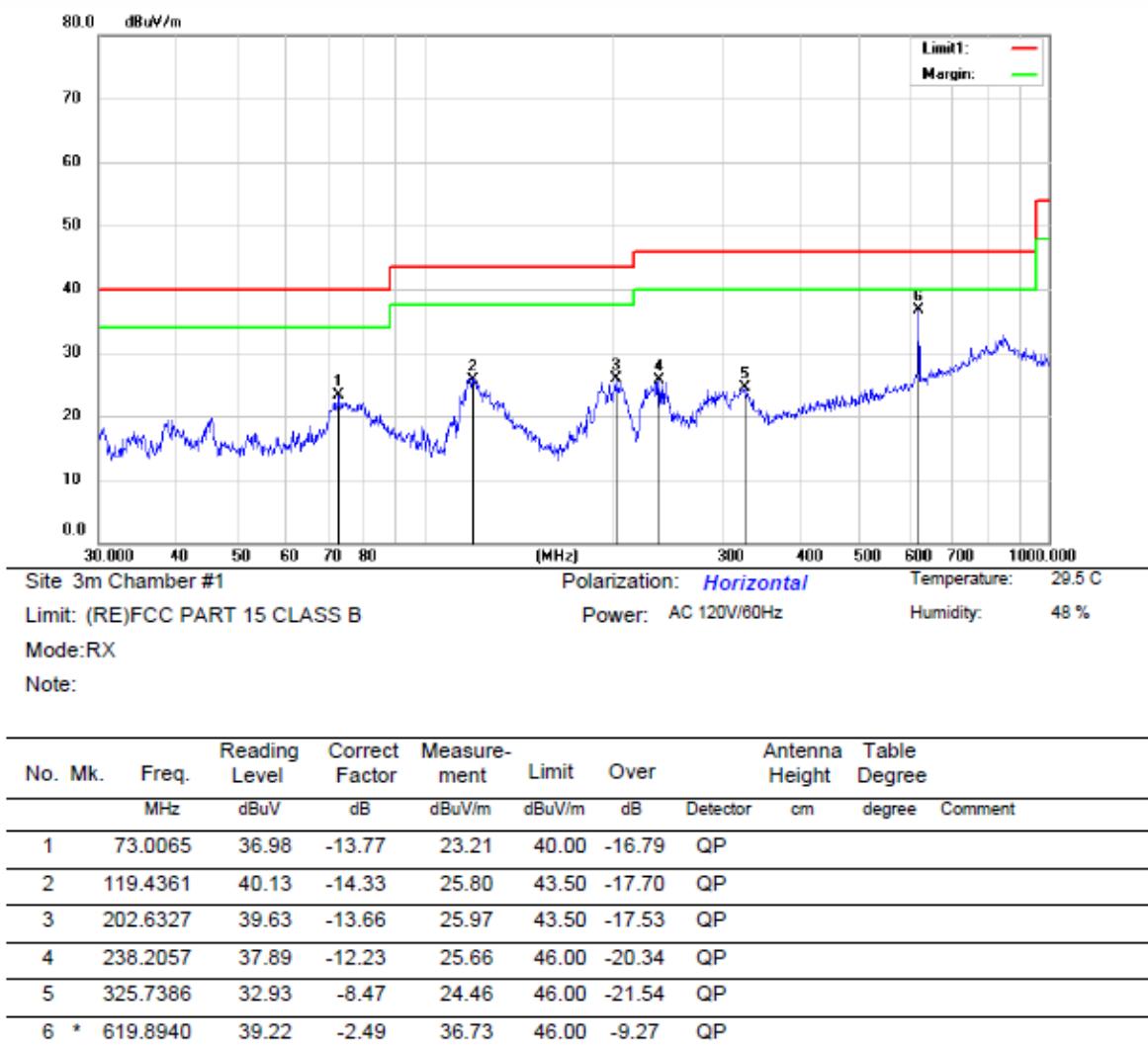
PASS.

All the modes were tested and the data of the worst modes are attached the following pages.



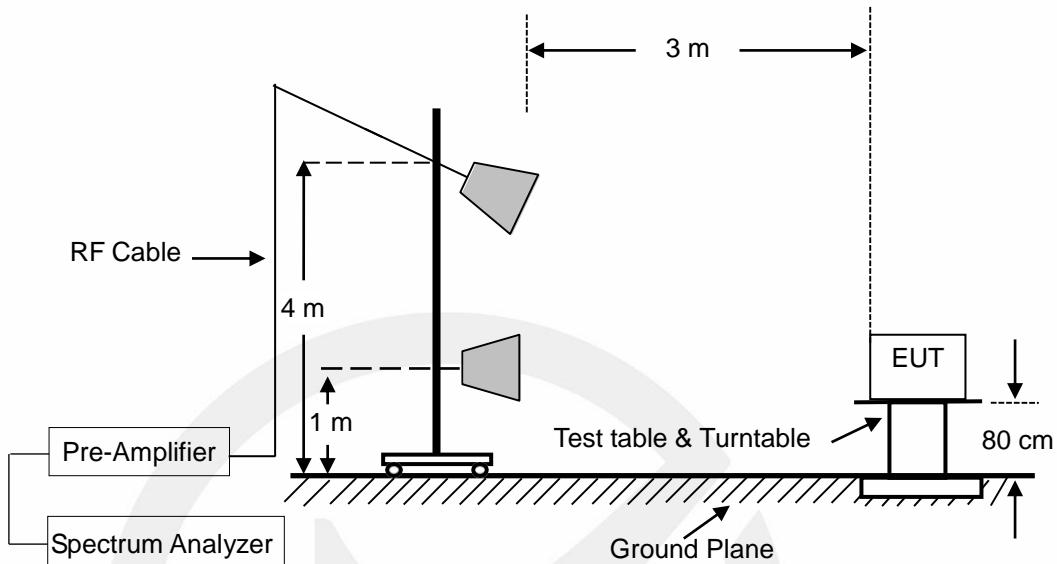


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		30.3571	46.66	-14.56	32.10	40.00	-7.90	QP		
2	*	38.8878	46.85	-13.12	33.73	40.00	-6.27	QP		
3		52.6214	40.16	-11.83	28.33	40.00	-11.67	QP		
4		114.8665	40.75	-14.22	26.53	43.50	-16.97	QP		
5		197.4596	40.08	-13.55	26.53	43.50	-16.97	QP		
6		619.8940	39.51	-2.49	37.02	46.00	-8.98	QP		



6. RADIATED EMISSION MEASUREMENT (ABOVE 1GHz)

6.1. Block Diagram of Test Setup



6.2. Radiated Limit

FCC Part 15, Subpart B, Class B

Frequency range GHz	Average limit dB(μ V/m)	Peak limit dB(μ V/m)
Above 1000	54	74

Note: The highest internal source of an EUT is defined as the highest frequency generated or used in the device or on which the EUT operates or tunes. If the highest frequency of the internal sources of the EUT is less than 1.705 MHz, the measurement shall only be made up to 30 MHz. If the highest frequency of the internal sources of the EUT is between 1.705 MHz and 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

6.3. Test Procedure

The EUT was placed on a non-conductive table whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

The EUT was set 3 meters away from the receiving antenna that was mounted on a

non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with peak detector for peak values, and use RBW=1 MHz and VBW=10 Hz with peak detector for Average Values.

Test results were obtained from the following equation:

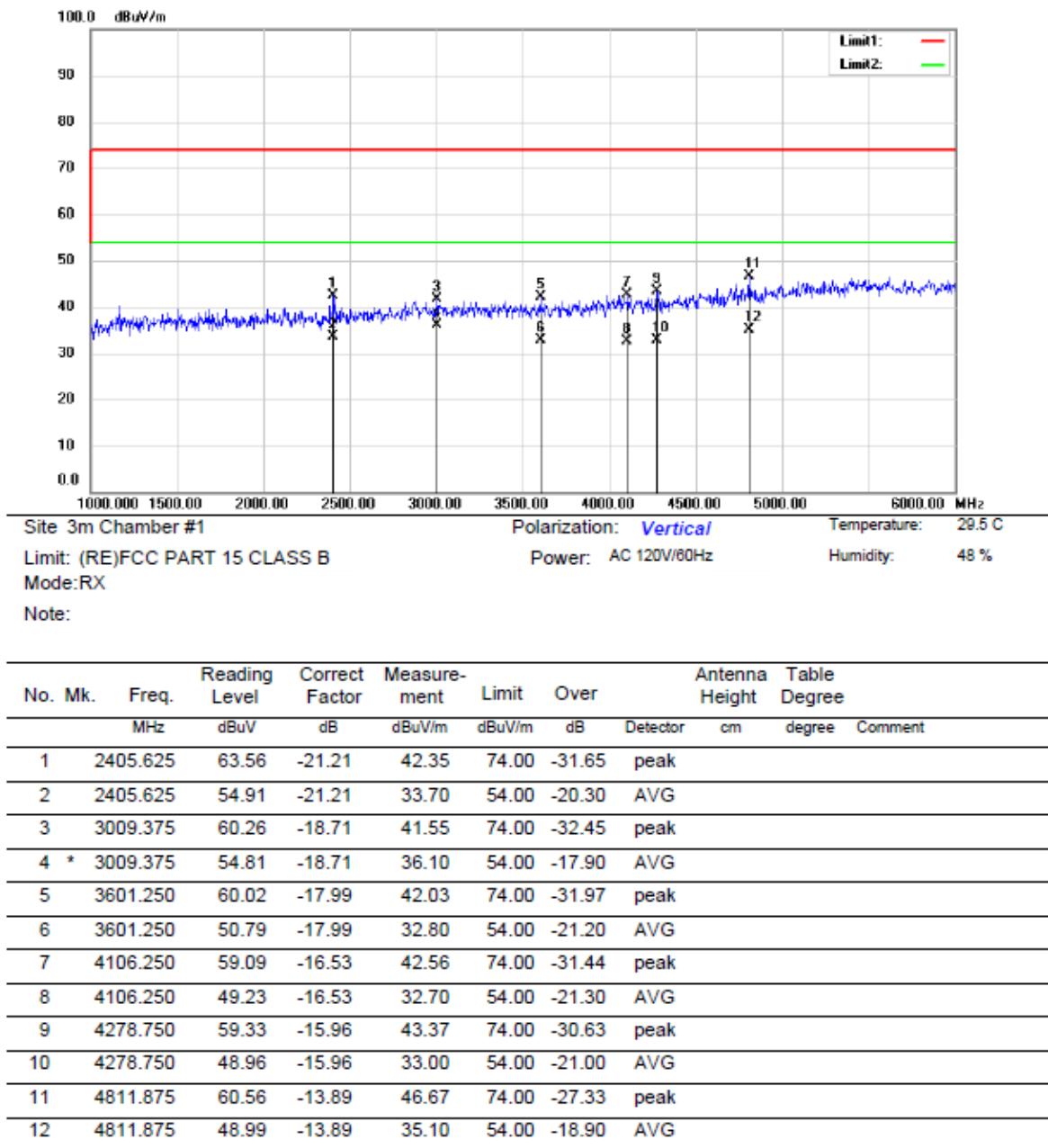
Emission level (dB μ V/m) = Antenna Factor - Amp Factor + Cable Loss + Reading

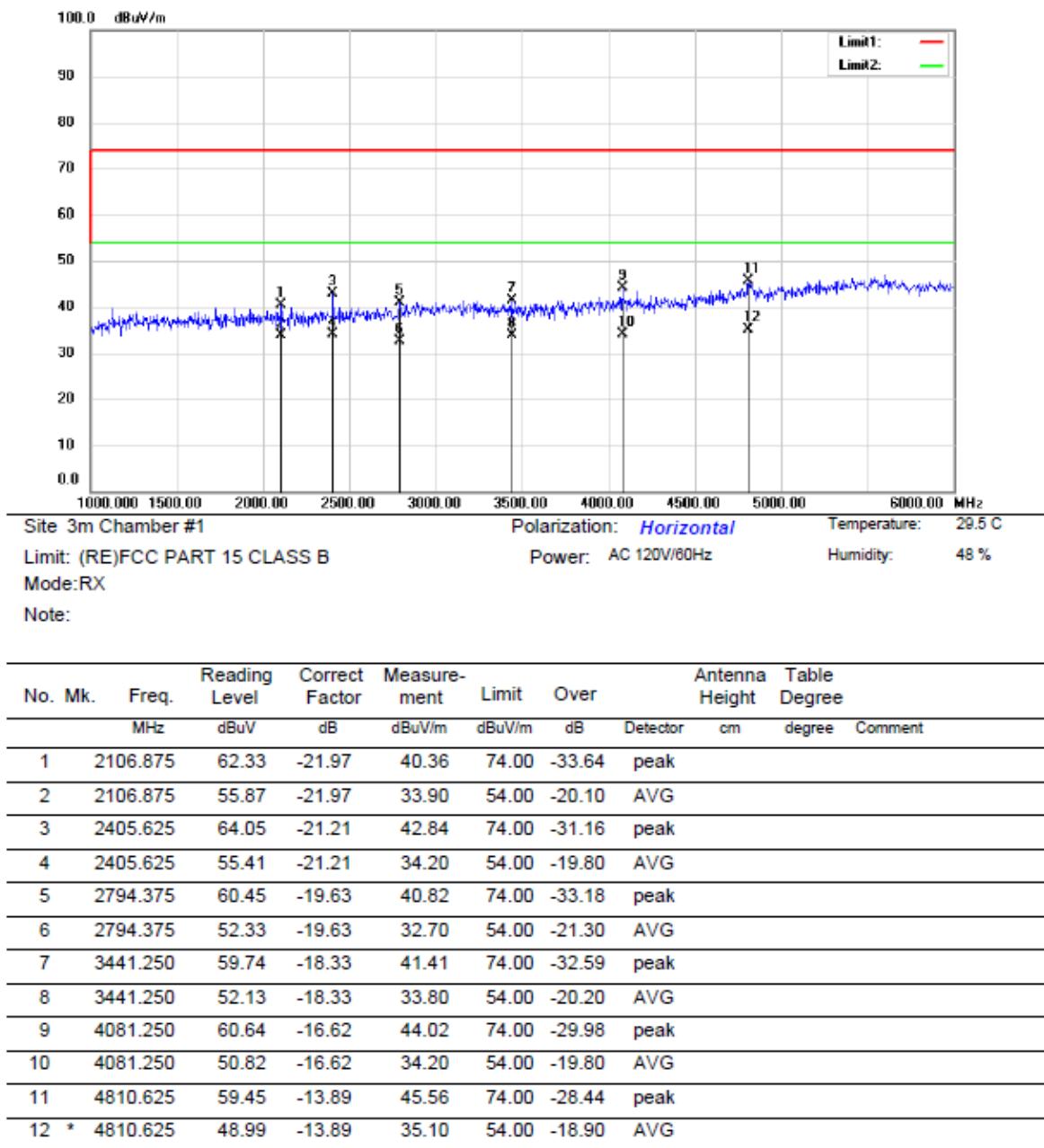
Margin (dB) = Emission Level (dB μ V/m) - Limit (dB μ V/m)

6.4. Measuring Results

PASS.

The spurious emission has been tested to 40GHz, the amplitude of spurious emission between 18GHz to 40GHz is attenuated more than 20dB below the permissible limit has no need to be reported. Please refer to following pages.





7. PHOTOGRAPHS

7.1. Photos of Conducted Emission Measurement



7.2. Photos of Radiation Emission Measurement

Spurious Emission Test Setup (Below 1GHz)



Spurious Emission Test Setup (Above 1GHz)



APPENDIX A: Label Requirements

(1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90 of this chapter, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

(2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules for use with cable television service.

(3) All other devices shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



APPENDIX B: Warning Statement

(a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

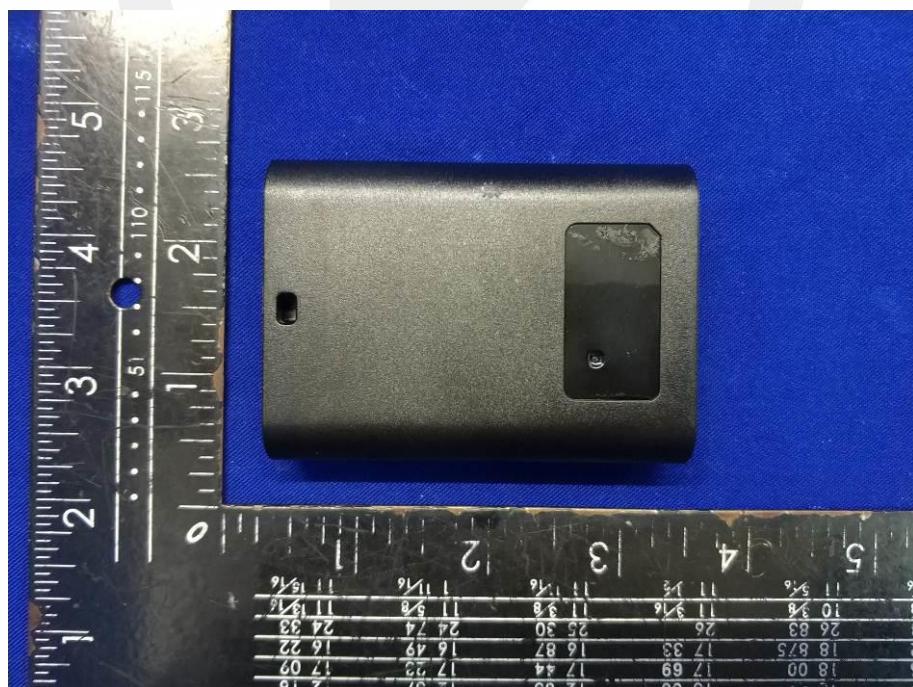
APPENDIX C: Photos of EUT

EUT View 1

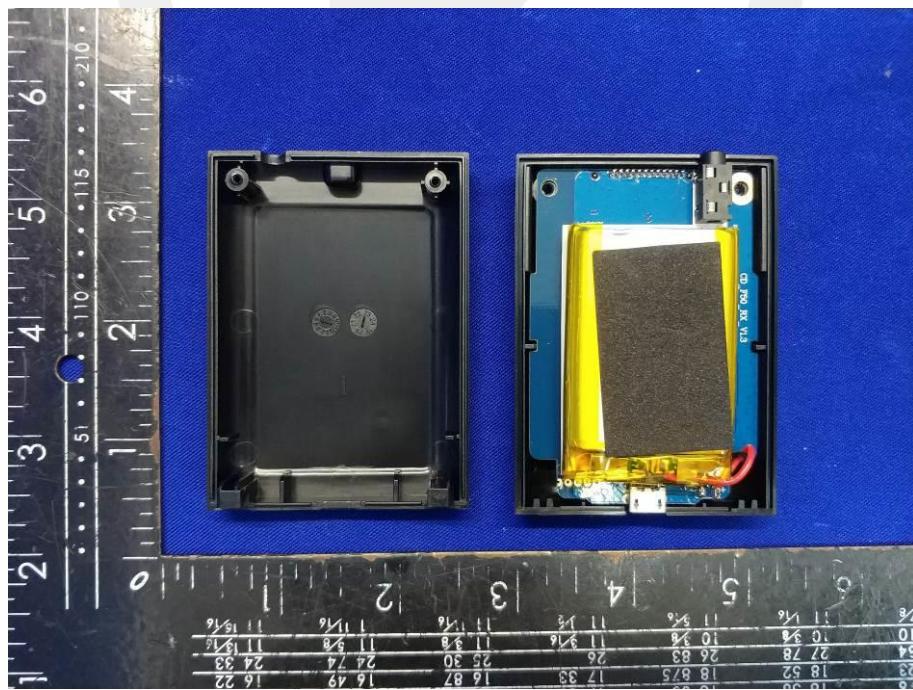


EUT View 2

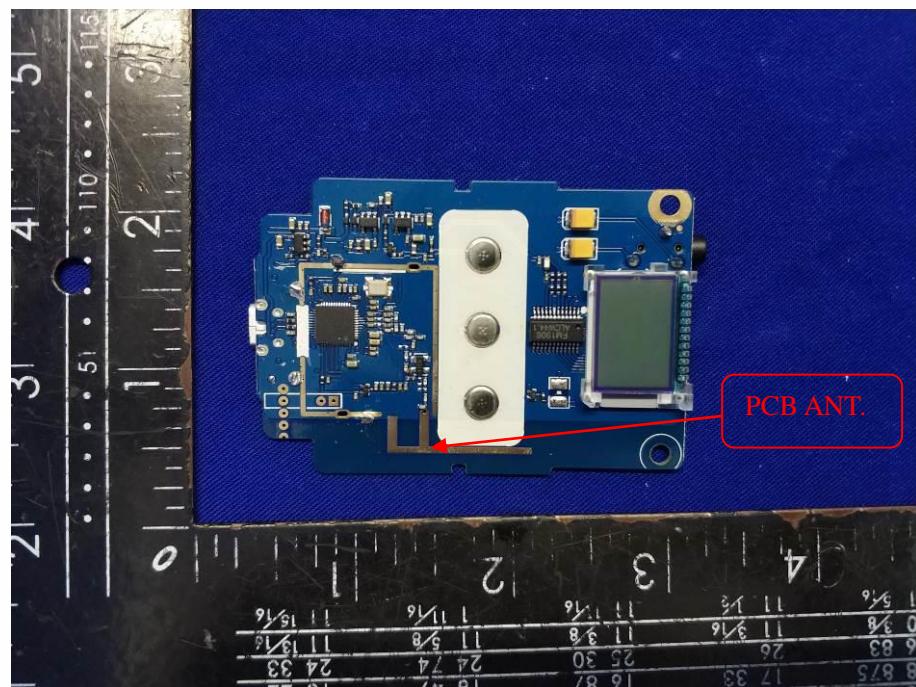


EUT View 3**EUT View 4**

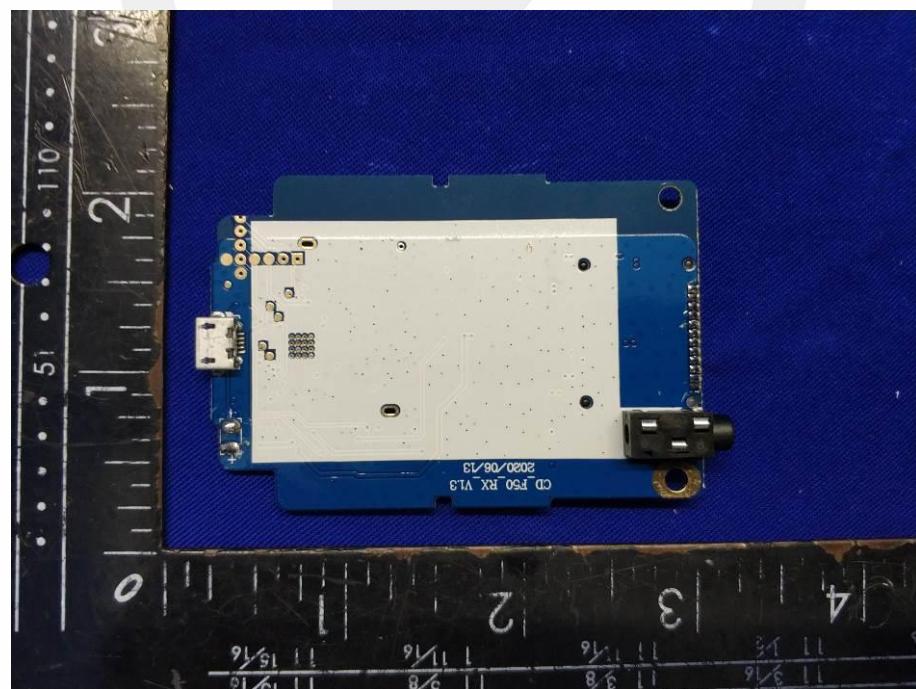
EUT View 5**EUT View 6**

EUT View 7**EUT Housing and Board View 1**

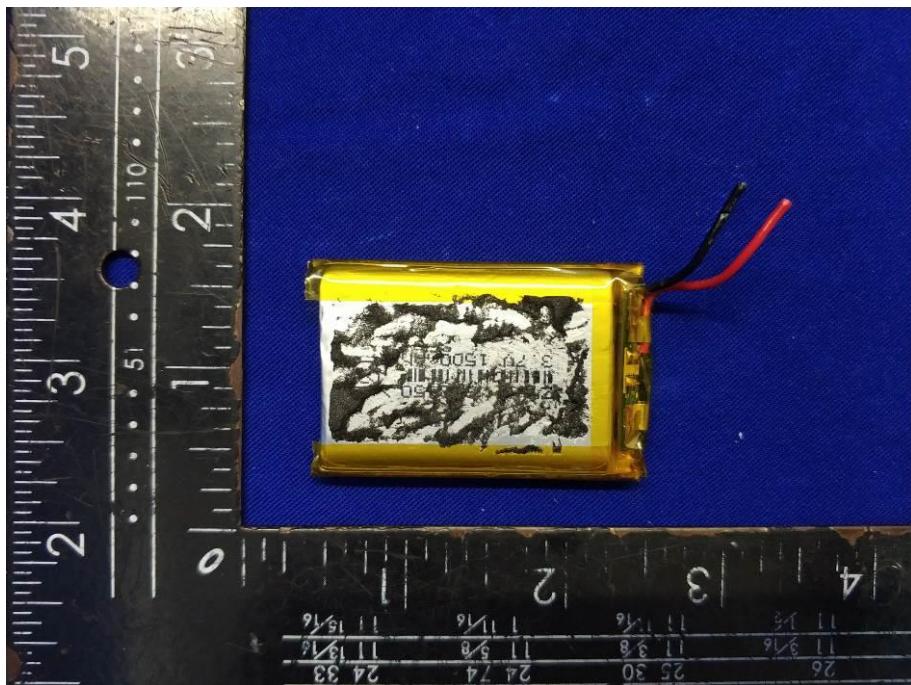
Solder Board-Component View 1



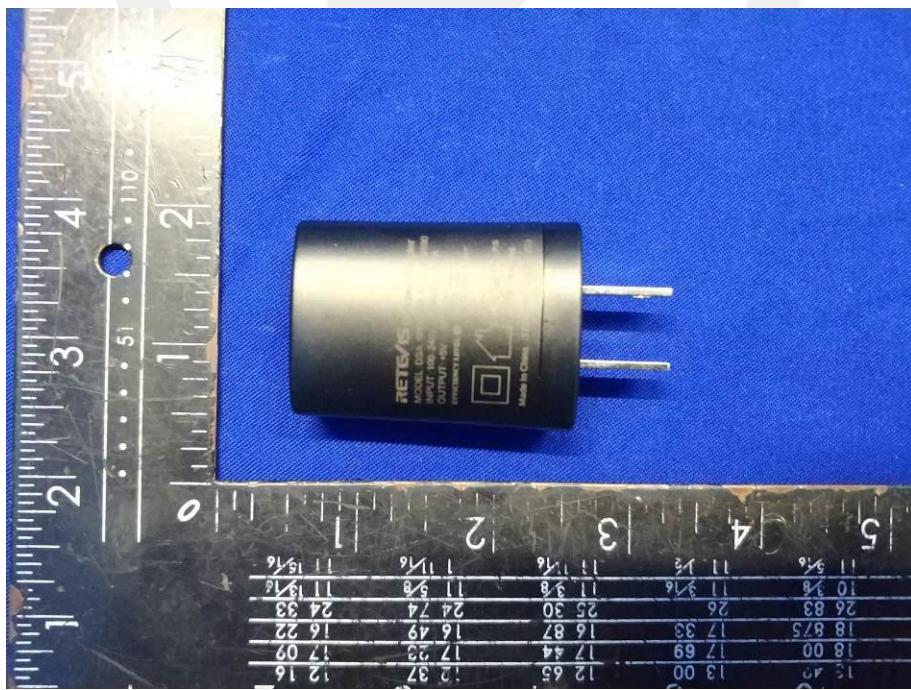
Solder Board-Component View 2



Battery



Adapter



*** End of Report ***