

Test Report



(Supplier's Declaration of conformity)

for

SHENZHEN HOPELAND TECHNOLOGIES CO.,LTD.

Integrated Fixed Reader

Model No.: CL7206B8A

Prepared for : SHENZHEN HOPELAND TECHNOLOGIES CO.,LTD.
Address : 17/F, Block A, Clou Bldg, Baoshen Road, Hitech Industrial
Park North, Nanshan District, 518007, Shenzhen, China

Prepared by : EMTEK (SHENZHEN) CO., LTD.
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Report Number : ES190904002E
Date of Test : September 4, 2019 to September 29, 2019
Date of Report : September 29, 2019

TABLE OF CONTENT

Test Report Description	Page
1. SUMMARY OF TEST RESULTS.....	5
2. GENERAL INFORMATION.....	6
2.1. Description of Device (EUT).....	6
2.2. Input / Output Ports.....	6
2.3. Independent Operation Modes.....	6
2.4. Test Manner.....	6
2.5. Description of Test Facility.....	7
2.6. Test Software.....	7
2.7. Description of Support Device.....	7
2.8. Measurement Uncertainty.....	7
3. MEASURING DEVICE AND TEST EQUIPMENT.....	8
3.1. For Power Line Conducted Emission Measurement.....	8
3.2. For Radiated Emission Measurement.....	8
4. POWER LINE CONDUCTED EMISSION MEASUREMENT.....	9
4.1. Block Diagram of Test Setup.....	9
4.2. Limits.....	9
4.3. Test Procedure.....	9
4.4. Measuring Results.....	10
5. RADIATED EMISSION MEASUREMENT(UP TO 1GHZ).....	13
5.1. Block Diagram of Test Setup.....	13
5.2. Radiated Limit.....	13
5.3. Test Procedure.....	13
5.4. Measuring Results.....	14
6. RADIATED EMISSION MEASUREMENT (ABOVE 1GHZ).....	17
6.1. Block Diagram of Test Setup.....	17
6.2. Radiated Limit.....	17
6.3. Test Procedure.....	17
6.4. Measuring Results.....	18
7. PHOTOGRAPHS.....	21
7.1. Photos of Power Line Conducted Emission Measurement.....	21
7.2. Photos of Radiation Emission Measurement.....	21
APPENDIX A: Label Requirements	
APPENDIX B: Warning Statement	
APPENDIX C: Photos of EUT	

TEST REPORT DESCRIPTION

Applicant : SHENZHEN HOPELAND TECHNOLOGIES CO.,LTD.
 Manufacturer : SHENZHEN HOPELAND TECHNOLOGIES CO.,LTD.
 Trade Mark : 
 EUT : Integrated Fixed Reader
 Model No. : CL7206B8A
 Power Supply : Adapter:
 Model : FSP060-DAAN2
 Input : 100-240V~, 1.5A, 50/60Hz
 Output: 24V/2.5A Max

Measurement Procedure Used:

CFR 47, FCC Part 15 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 : September 4, 2019 to September 29, 2019

Prepared by : 
 Stephen liang/Editor

Reviewer : 
 Sewen Guo/Supervisor

Approved & Authorized Signer : 
 Lisa Wang/Manager



Modified History

Version	Report No.	Revision Data	Summary
Ver.1.0	ES190904002E	September 29, 2019	Original Version

1. SUMMARY OF TEST RESULTS

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

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Integrated Fixed Reader

Model Number : CL7206B8A

Test Voltage : AC 120V/60Hz

Applicant : SHENZHEN HOPELAND TECHNOLOGIES CO.,LTD.

Address : 17/F, Block A, Clou Bldg, Baoshen Road, Hitech Industrial Park North, Nanshan District, 518007, Shenzhen, China

Manufacturer : SHENZHEN HOPELAND TECHNOLOGIES CO.,LTD.

Address : 17/F, Block A, Clou Bldg, Baoshen Road, Hitech Industrial Park North, Nanshan District, 518007, Shenzhen, China

Date of Received : September 4, 2019

Date of Test : September 4, 2019 to September 29, 2019

2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	Enclosure	N/E	--	--	None
* Note: For the purposes of the present document, the following symbols apply: AC AC Power Port DC DC Power Port N/E Non-Electrical I/O Signal Input or Output Port (Not Involved in Process Control) TP Telecommunication Ports					

2.3. Independent Operation Modes

A : Ping mode
Normal mode

B : Off

2.4. Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Conducted Emission	AC 120V/60Hz	Mode A	Mode A
Radiated Emission	AC 120V/60Hz	Mode A	Mode A

2.5. Description of Test Facility

Site Description

EMC Lab. : 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 TUV Rheinland Shenzhen 2018.3.30
The Laboratory has been assessed according to the requirements
ISO/IEC 17025

Accredited by FCC, August 09, 2018
Designation Number: CN1204
Test Firm Registration Number: 882943
Accredited by A2LA, August 08, 2018
The Certificate Registration Number is 4321.01

Accredited by Industry Canada, November 09, 2018
The Certificate Registration Number is CN0008

Name of Firm : EMTEK (SHENZHEN) CO., LTD.

Site Location : Bldg 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. Description of Support Device

No.	Equipment	Model/ Serial No.	CE/FCC	Trade name	Power Cord
1.	PC	M713A	FCC	LENOVO	/
2.					

2.8. Measurement Uncertainty

Test Item Uncertainty
Conducted Emission Uncertainty : 3.16dB(9k~150kHz Conduction 2#)
2.90dB(150k-30MHz Conduction 2#)

Radiated Emission Uncertainty : 3.78dB (30M~1GHz Polarize: H)
(3m Chamber) 4.27dB (30M~1GHz Polarize: V)
4.46dB (1~6GHz)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission Measurement

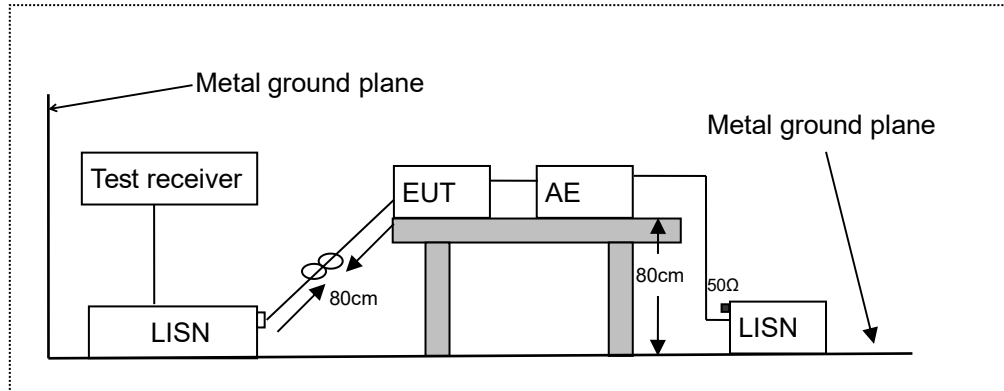
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 19, 2019	1 Year
☒	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100191	May 19, 2019	1 Year
☒	50Ω Coaxial Switch	Anritsu	MP59B	M20531	May 19, 2019	1 Year
☒	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 19, 2019	1 Year

3.2. For Radiated Emission Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 19, 2019	1 Year
☒	Pre-Amplifier	HP	8447F	2944A07999	May 19, 2019	1 Year
☒	Bilog Antenna	Schwarzbeck	VULB9163	142	May 19, 2019	1 Year
☒	Cable	Schwarzbeck	AK9513	ACRX1	May 19, 2019	1 Year
☒	Cable	Rosenberger	N/A	FP2RX2	May 19, 2019	1 Year
☒	Cable	Schwarzbeck	AK9513	CRPX1	May 19, 2019	1 Year
☒	Cable	Schwarzbeck	AK9513	CRRX2	May 19, 2019	1 Year
☒	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 19, 2019	1 Year
☒	Pre-Amplifier	A.H.	PAM-0126	1415261	May 19, 2019	1 Year
☒	Horn Antenna	Schwarzbeck	BBHA 9120	707	May 19, 2019	1 Year
☒	Cable	H+B	0.5M SF104-26.5	289147/4	May 19, 2019	1 Year
☒	Cable	H+B	3M SF104-26.5	295838/4	May 19, 2019	1 Year
☒	Cable	H+B	6M SF104-26.5	295840/4	May 19, 2019	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:

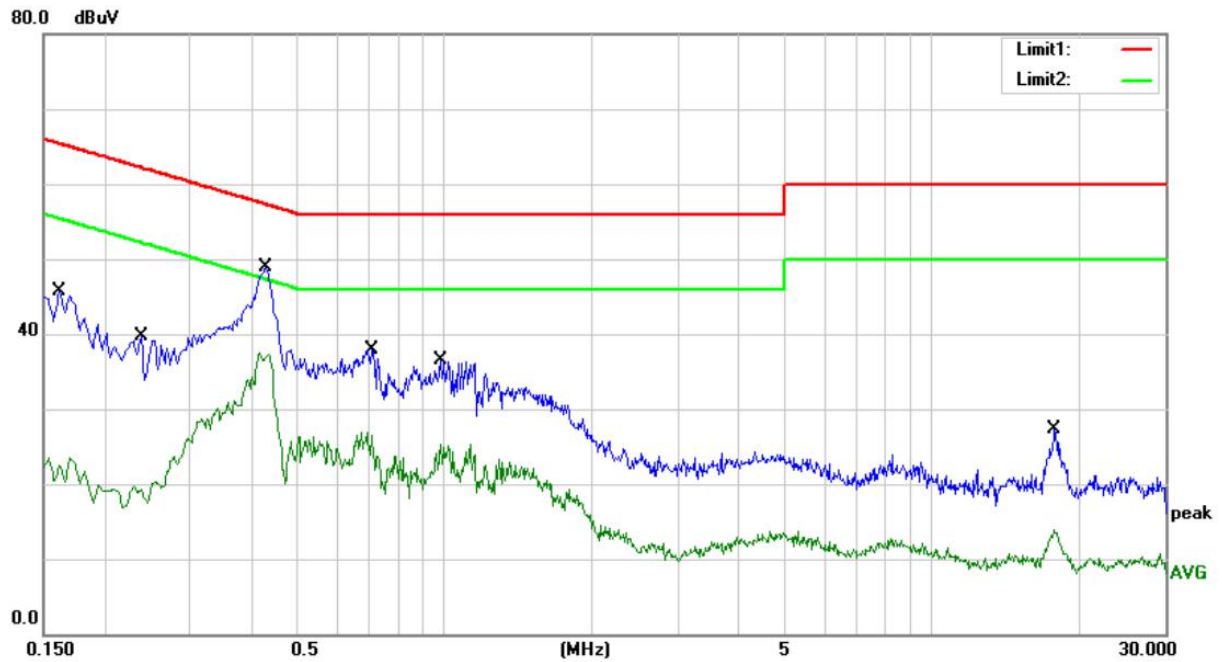
Emission Level (dB μ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB μ V)

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

4.4.Measuring Results

PASS.

All of the Configurations were tested, the data of the worst case please refer to following pages.

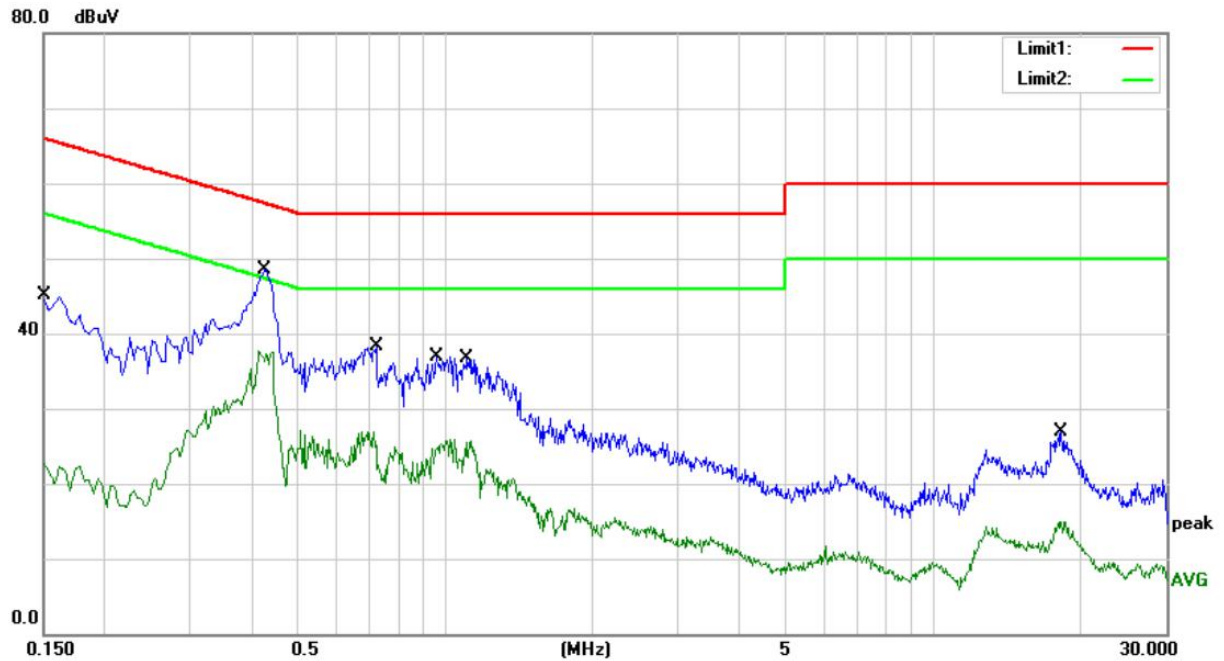


Site Conduction #1
Limit: FCC PART 15B
Mode: Ping mode
Note:

Phase: **N**
Power: AC 120V/60Hz

Temperature: 25.4
Humidity: 54 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1620	26.12	19.61	45.73	65.36	-19.63	QP	
2		0.1620	3.80	19.61	23.41	55.36	-31.95	AVG	
3		0.2380	20.29	19.40	39.69	62.17	-22.48	QP	
4		0.2380	0.86	19.40	20.26	52.17	-31.91	AVG	
5	*	0.4300	29.76	19.24	49.00	57.25	-8.25	QP	
6		0.4300	18.19	19.24	37.43	47.25	-9.82	AVG	
7		0.7060	18.78	19.16	37.94	56.00	-18.06	QP	
8		0.7060	7.68	19.16	26.84	46.00	-19.16	AVG	
9		0.9820	17.35	19.13	36.48	56.00	-19.52	QP	
10		0.9820	6.22	19.13	25.35	46.00	-20.65	AVG	
11		17.8340	7.72	19.58	27.30	60.00	-32.70	QP	
12		17.8340	-5.77	19.58	13.81	50.00	-36.19	AVG	



Site Conduction #1
Limit: FCC PART 15B
Mode: Ping mode
Note:

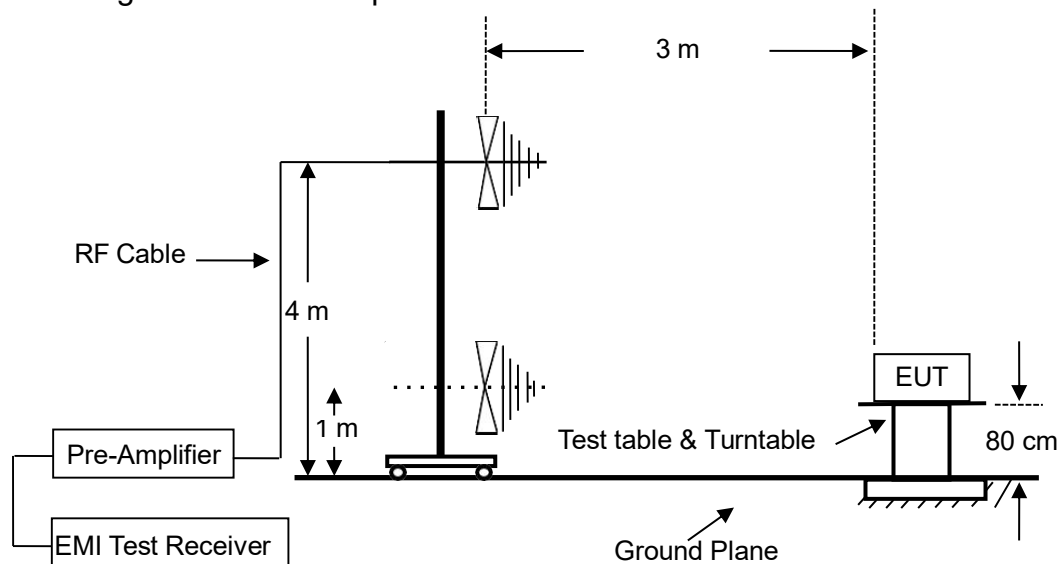
Phase: **L1**
Power: AC 120V/60Hz

Temperature: 25.4
Humidity: 54 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	25.36	19.70	45.06	66.00	-20.94	QP	
2		0.1500	3.19	19.70	22.89	56.00	-33.11	AVG	
3	*	0.4260	29.34	19.24	48.58	57.33	-8.75	QP	
4		0.4260	18.46	19.24	37.70	47.33	-9.63	AVG	
5		0.7220	19.21	19.16	38.37	56.00	-17.63	QP	
6		0.7220	7.72	19.16	26.88	46.00	-19.12	AVG	
7		0.9620	17.77	19.14	36.91	56.00	-19.09	QP	
8		0.9620	6.82	19.14	25.96	46.00	-20.04	AVG	
9		1.1060	17.62	19.12	36.74	56.00	-19.26	QP	
10		1.1060	6.62	19.12	25.74	46.00	-20.26	AVG	
11		18.3060	7.22	19.62	26.84	60.00	-33.16	QP	
12		18.3060	-4.75	19.62	14.87	50.00	-35.13	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	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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:

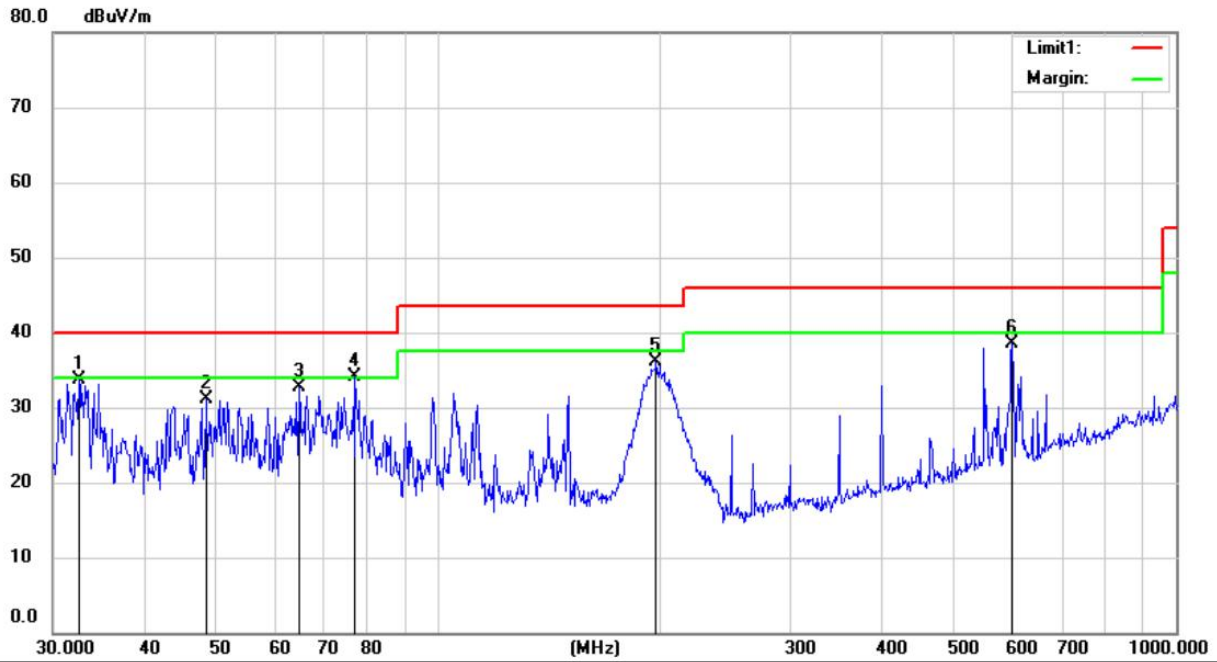
Emission level (dB μ V/m) = Antenna Factor - Amp Factor + Cable Loss + Reading

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

5.4.Measuring Results

PASS.

All of the Configurations were tested, the data of the worst case please refer to following pages.



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 22.5 C

Limit: FCC PART 15B

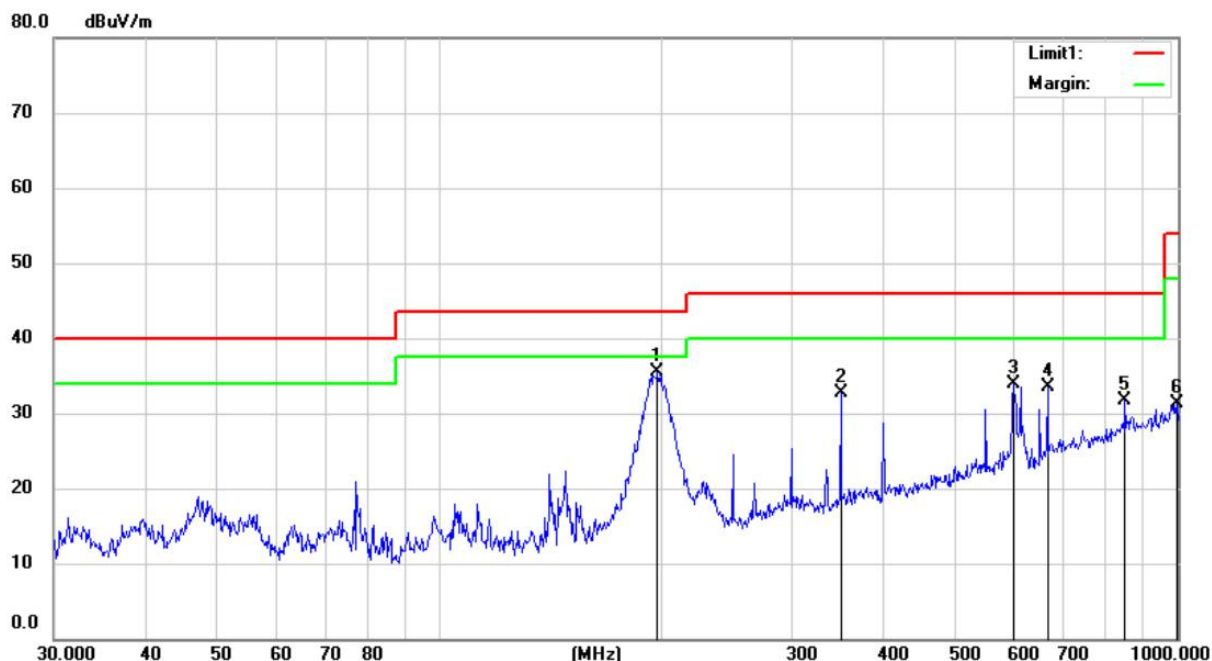
Power: AC 120V/60Hz

Humidity: 61 %

Mode: Normal mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		32.5883	49.73	-16.07	33.66	40.00	-6.34	QP		
2		48.4336	44.17	-13.00	31.17	40.00	-8.83	QP		
3		64.7728	49.25	-16.56	32.69	40.00	-7.31	QP		
4	*	77.2128	51.96	-17.94	34.02	40.00	-5.98	QP		
5		197.2693	49.58	-13.51	36.07	43.50	-7.43	QP		
6		600.1625	43.05	-4.58	38.47	46.00	-7.53	QP		



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 22.5 C

Limit: FCC PART 15B

Power: AC 120V/60Hz

Humidity: 61 %

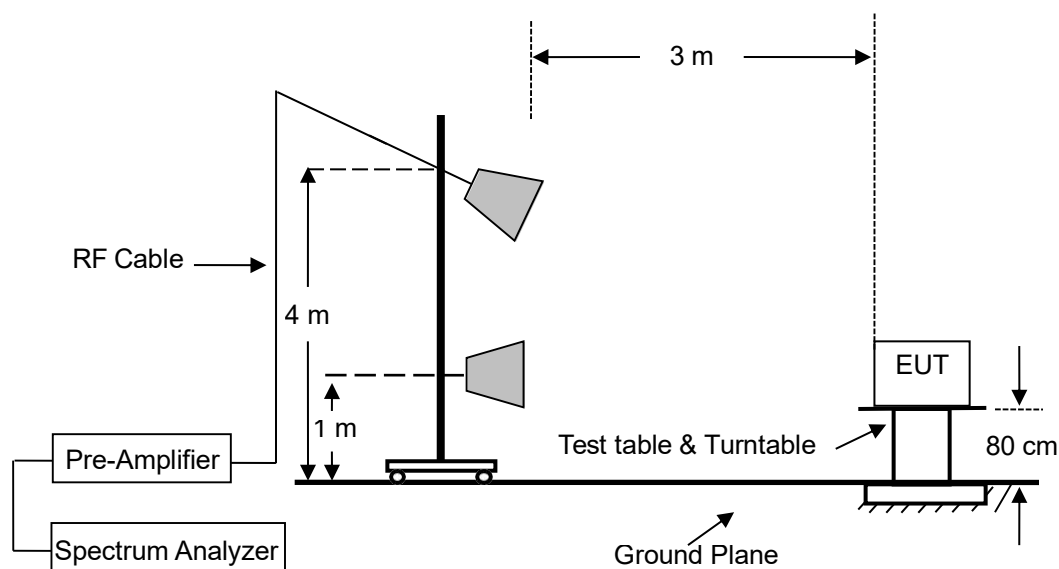
Mode: Normal mode

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	197.3385	48.99	-13.50	35.49	43.50	-8.01	QP		
2		350.1083	42.79	-10.13	32.66	46.00	-13.34	QP		
3		600.1625	38.58	-4.58	34.00	46.00	-12.00	QP		
4		666.7380	36.62	-3.19	33.43	46.00	-12.57	QP		
5		850.1405	31.24	0.51	31.75	46.00	-14.25	QP		
6		998.2483	28.86	2.44	31.30	54.00	-22.70	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:

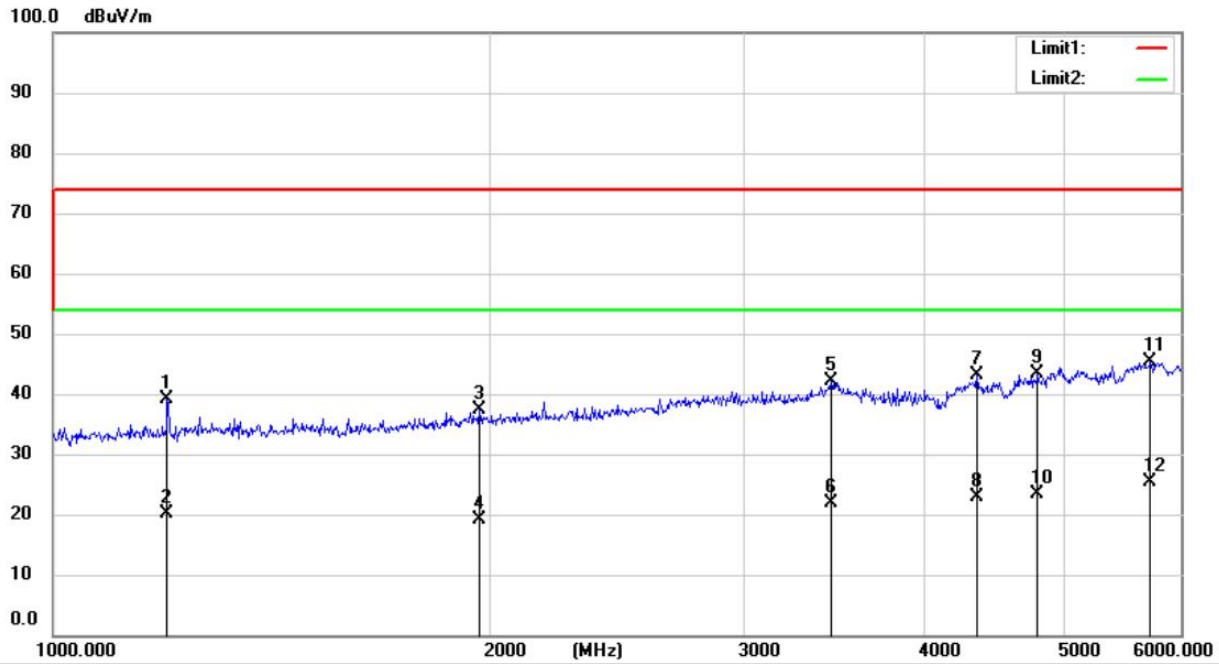
Emission level (dB μ V/m) = Antenna Factor - Amp Factor + Cable Loss + Reading

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

6.4.Measuring Results

PASS.

All of the Configurations were tested, the data of the worst case please refer to following pages.



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 22.5 C

Limit: FCC PART 15B

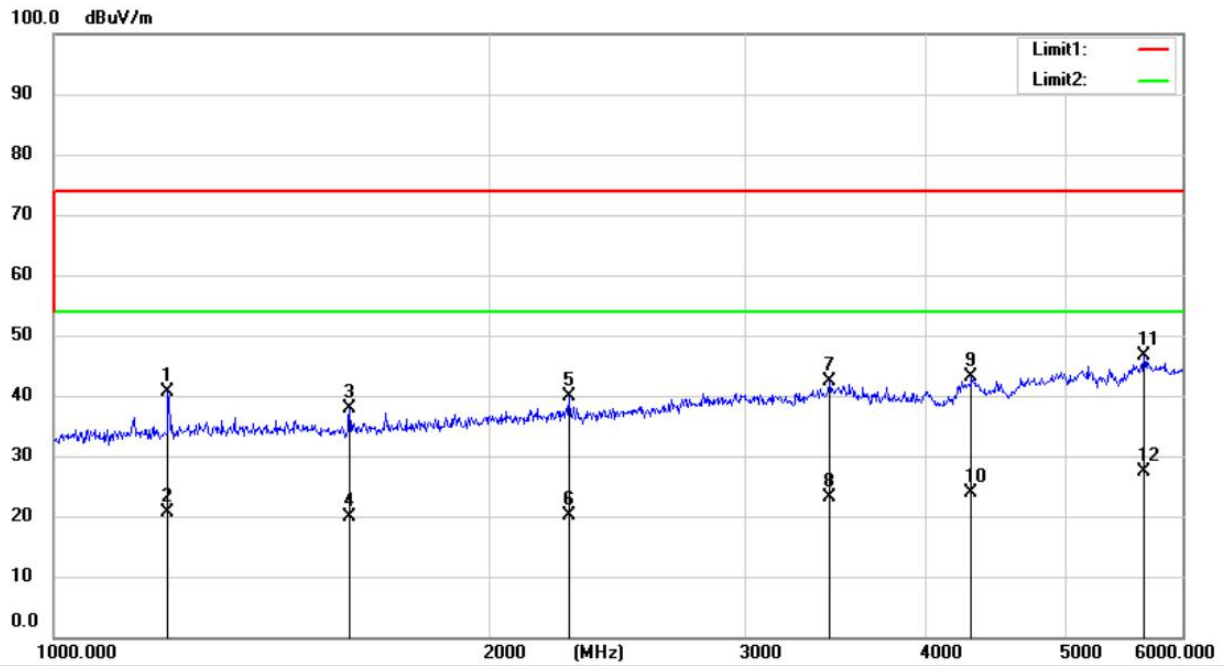
Power: AC 120V/60Hz

Humidity: 61 %

Mode: Normal mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1199.880	56.66	-17.60	39.06	74.00	-34.94	peak		
2		1199.880	37.70	-17.60	20.10	54.00	-33.90	AVG		
3		1969.232	52.94	-15.67	37.27	74.00	-36.73	peak		
4		1969.232	34.87	-15.67	19.20	54.00	-34.80	AVG		
5		3445.368	53.35	-11.33	42.02	74.00	-31.98	peak		
6		3445.368	33.33	-11.33	22.00	54.00	-32.00	AVG		
7		4343.608	52.00	-8.94	43.06	74.00	-30.94	peak		
8		4343.608	31.94	-8.94	23.00	54.00	-31.00	AVG		
9		4785.734	51.34	-7.87	43.47	74.00	-30.53	peak		
10		4785.734	31.37	-7.87	23.50	54.00	-30.50	AVG		
11		5718.693	51.04	-5.64	45.40	74.00	-28.60	peak		
12	*	5718.693	31.14	-5.64	25.50	54.00	-28.50	AVG		



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 22.5 C

Limit: FCC PART 15B

Power: AC 120V/60Hz

Humidity: 61 %

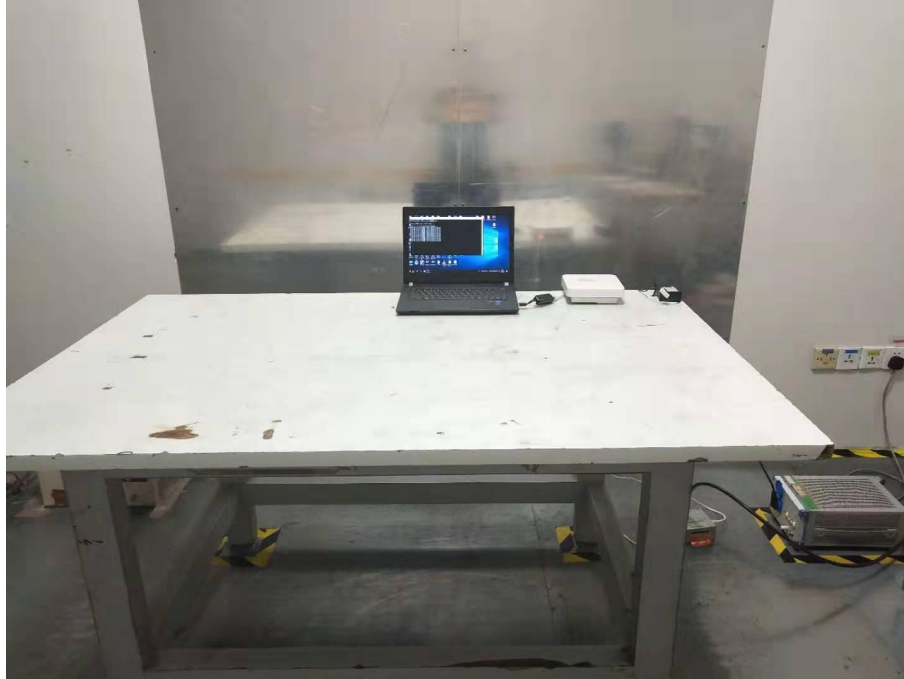
Mode: Normal mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		1200.311	58.24	-17.60	40.64	74.00	-33.36	peak		
2		1200.311	38.20	-17.60	20.60	54.00	-33.40	AVG		
3		1599.387	54.54	-16.64	37.90	74.00	-36.10	peak		
4		1599.387	36.44	-16.64	19.80	54.00	-34.20	AVG		
5		2267.042	54.48	-14.61	39.87	74.00	-34.13	peak		
6		2267.042	34.71	-14.61	20.10	54.00	-33.90	AVG		
7		3426.284	53.69	-11.36	42.33	74.00	-31.67	peak		
8		3426.284	34.46	-11.36	23.10	54.00	-30.90	AVG		
9		4296.392	52.05	-9.04	43.01	74.00	-30.99	peak		
10		4296.392	32.94	-9.04	23.90	54.00	-30.10	AVG		
11		5647.415	52.48	-5.85	46.63	74.00	-27.37	peak		
12	*	5647.415	33.25	-5.85	27.40	54.00	-26.60	AVG		

7. PHOTOGRAPHS

7.1.Photos of Power Line Conducted Emission Measurement



7.2.Photos of Radiation Emission Measurement





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:

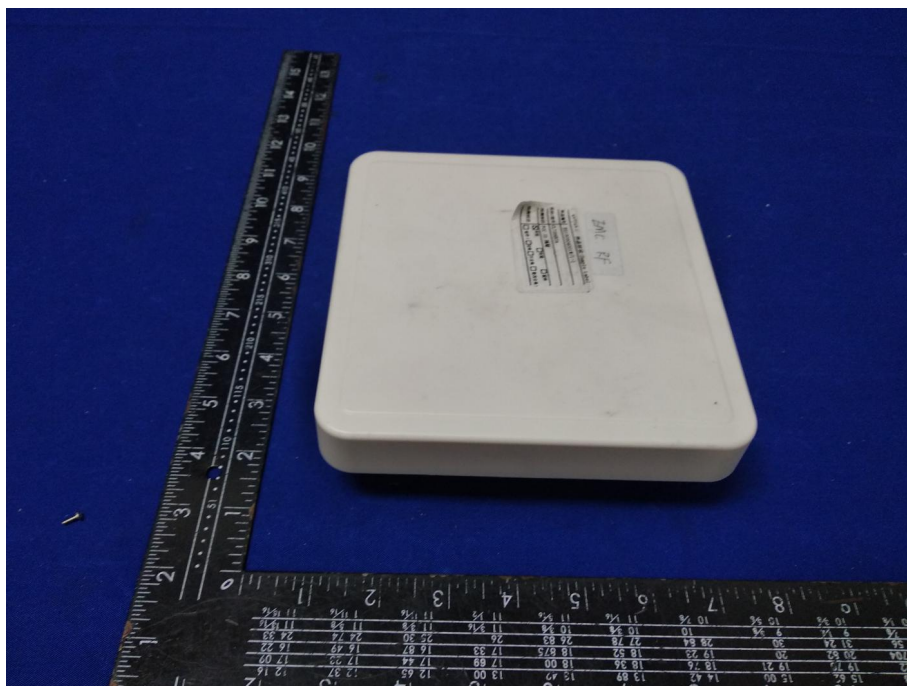
NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment 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:

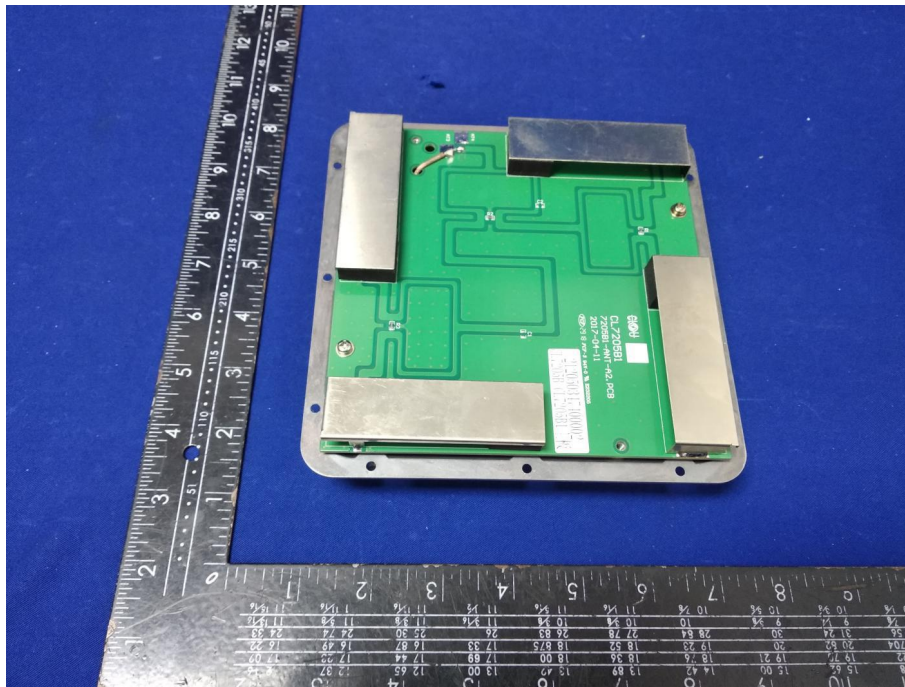
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

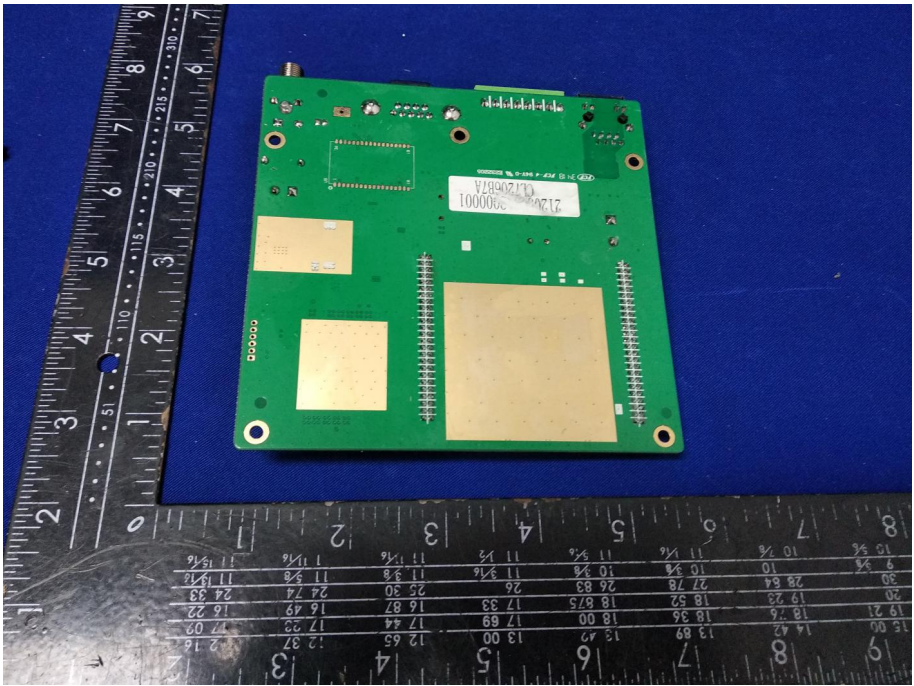
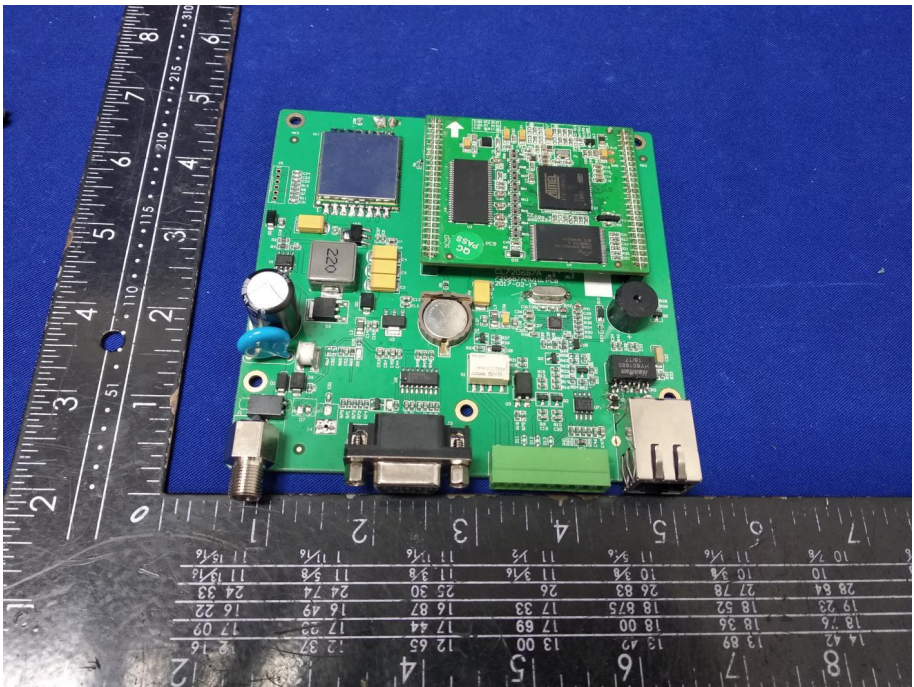
APPENDIX C: Photos of EUT

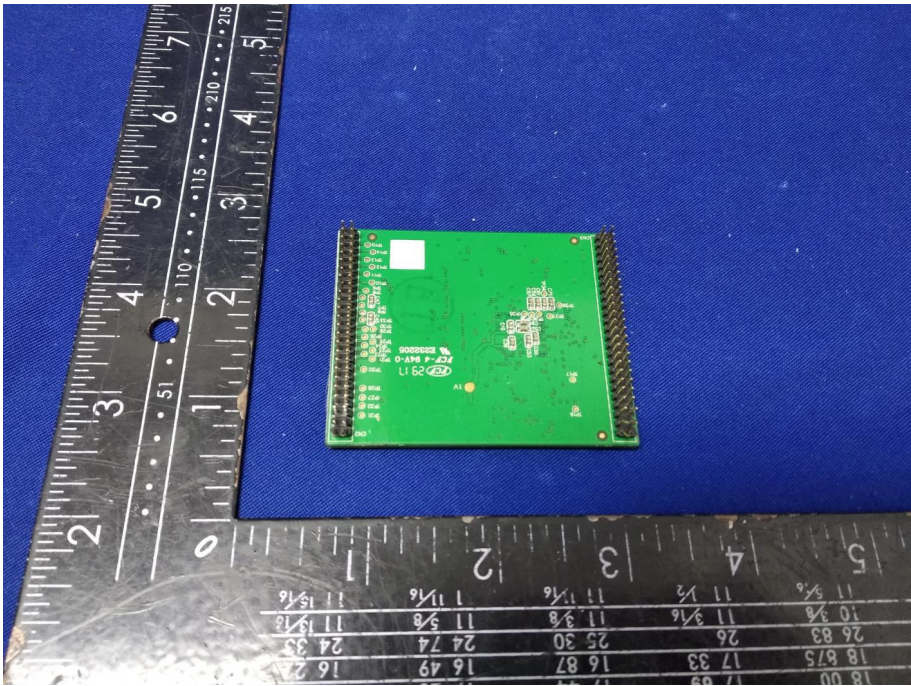
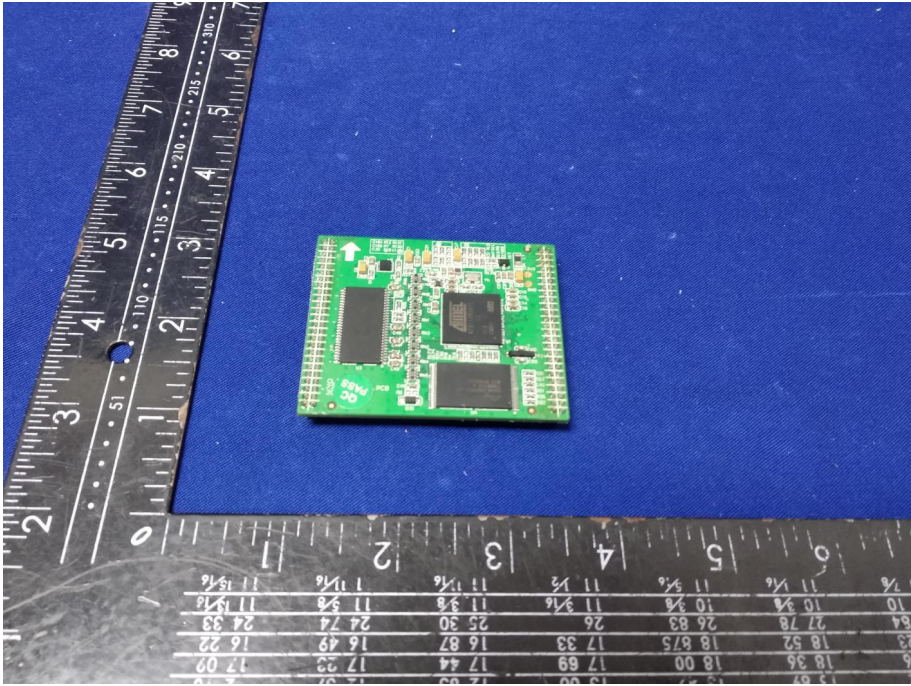












----- End of Report -----