

# TEST REPORT

**Product Name : CM3588 Computer on Module**

**Model Number : CM3588**

Prepared for : BOARDCON EMBEDDED DESIGN LIMITED  
Address : 2508-2509 Haofang Tianji Plaza, 11008 Beihuan Avenue,  
Nanshan District, Shenzhen, Guangdong, China. 518051

Prepared by : EMTEK (SHENZHEN) CO., LTD.  
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Report Number : ENS2410150124W00201R  
Date(s) of Tests : May 28, 2024 to September 3, 2024  
Date of issue : October 23, 2024



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## Modified Information

Version	Report No.	Revision Date	Summary
	ENS2403270179W00401R	/	Original Report
M1	ENS2410150124W00201R	/	Upgrade the information of applicant and manufacturer for name and address, product name, product photo, trademark and model number
<p>Note: This product is an extension of original one under report number: ENS2403270179W00401R. For upgrade the information of applicant and manufacturer for name and address, product name, product photo, trademark and model number, It is not necessary to verify.</p>			



## TEST REPORT DESCRIPTION

Applicant : BOARDCON EMBEDDED DESIGN LIMITED

Address : 2508-2509 Haofang Tianji Plaza, 11008 Beihuan Avenue, Nanshan District, Shenzhen, Guangdong, China. 518051

Manufacturer : BOARDCON EMBEDDED DESIGN LIMITED

Address : 2508-2509 Haofang Tianji Plaza, 11008 Beihuan Avenue, Nanshan District, Shenzhen, Guangdong, China. 518051

EUT : CM3588 Computer on Module

Model No. : CM3588

Trade Mark : 

### Measurement Procedure Used:

FCC CFR Title 47, 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 : May 28, 2024 to September 3, 2024

Prepared by : *Una Yu*  
Una Yu/Editor

Reviewer : *Joe Xia*  
Joe Xia/Supervisor

Approved & Authorized Signer : *Lisa Wang*  
Lisa Wang/Manager



## 1. SUMMARY OF TEST RESULTS

EMISSION		
Description of Test Item	Standard & Limits	Results
Conducted Emission at Mains Terminals	FCC CFR Title 47, Part 15, Subpart B, Class A ANSI C63.4-2014	Pass
Radiated Emission	FCC CFR Title 47, Part 15, Subpart B, Class A ANSI C63.4-2014	Pass
NOTE: The results of this report do not take into account the uncertainty.		



## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

EUT : CM3588 Computer on Module

Model Number : CM3588

Applicant : BOARDCON EMBEDDED DESIGN LIMITED

Address : 2508-2509 Haofang Tianji Plaza, 11008 Beihuan Avenue, Nanshan District, Shenzhen, Guangdong, China. 518051

Manufacturer : BOARDCON EMBEDDED DESIGN LIMITED

Address : 2508-2509 Haofang Tianji Plaza, 11008 Beihuan Avenue, Nanshan District, Shenzhen, Guangdong, China. 518051

### 2.2. Independent Operation Modes

#### Test Mode

##### Mode A. On mode

- A1. Normal work (All functions are turned on and working properly)
- A2. DP
- A3. USB
- A4. Ping

##### Mode B. Standby mode

##### Mode C. Off mode

### 2.3. Test

#### Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Conducted Emission	As the Power Supply information	Mode A, B, C	Mode A1
Radiated emissions(Up to 1 GHz)	As the Power Supply information	Mode A, B, C	Mode A2
Radiated Emission Measurement (Above 1GHz)	As the Power Supply information	Mode A, B, C	Mode A2

## 2.4. Description of Test Facility

### Site Description

Name of Firm : EMTEK (SHENZHEN) CO., LTD.  
Site Location : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

## 2.5. Test Software

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

## 2.6. Description of Support Device

LCD Monitor : Manufacturer: Lenovo  
M/N: 9227-AE6  
S/N:4M0293084302824  
CE, FCC

Notebook : Manufacturer: Lenovo  
M/N: WB0205140E  
CE, FCC

Portable hard disk : M/N:WDBACY500ABL  
S/N: WXG1EBOSX219  
CE, FCC

## 2.7. Measurement Uncertainty

Test Item	Uncertainty
Conducted Emission Uncertainty	: 2.08dB(9k~150kHz Conduction 1#) 2.40dB(150k-30MHz Conduction 1#)
Radiated Emission Uncertainty (3m 3# Chamber)	: 4.40dB (30M~1GHz Polarize: H) 5.04dB (30M~1GHz Polarize: V) 4.94dB (1~6GHz)
Uncertainty for test site temperature and humidity	: 0.6℃ 4%

### 3. MEASURING DEVICE AND TEST EQUIPMENT

For Conducted Emission Measurement

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESCI	101384	2024/5/11	1Year
AMN	Rohde & Schwarz	ENV216	101161	2024/5/10	1Year

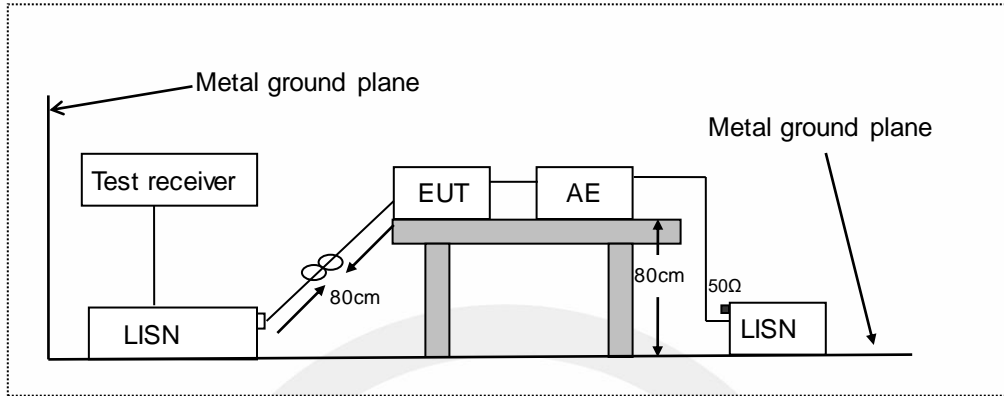
For Radiated Emission Measurement

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Pre-Amplifier	HP	8447F	2944A07999	2024/5/11	1Year
EMI Test Receiver	Rohde & Schwarz	ESCI	101414	2024/5/11	1Year
Bilog Antenna	Schwarzbeck	VULB9163	141	2022/6/16 2024/6/15	2 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1177	2023/5/12	2 Year
Pre-Amplifie	Bonn	BLMA0118-5G	2213967B-02	2023/10/23	1Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	100967	2024/5/10	1Year
Horn antenna	Schwarzbeck	BBHA9170	9170-399	2023/5/12	2 Year
Pre-Amplifie	Lunar EM	LNA18G26-40	J1012131010 001	2024/5/11	1Year
Pre-Amplifie	Lunar EM	LNA26G40-40	J1013131028 001	2024/5/11	1Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2023/5/12	2 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 A

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	79	66
0.50 ~ 30.00	73	60

### 4.3. Test Procedure

The EUT was placed on a table 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.

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 artificial mains network (AMN). 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 $\mu$ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB $\mu$ V)

Margin (dB) = Emission Level (dB $\mu$ V) - Limit (dB $\mu$ V)

#### 4.4. Measuring Results

##### **PASS**

Temperature : 26.9°C

ATM Pressure:

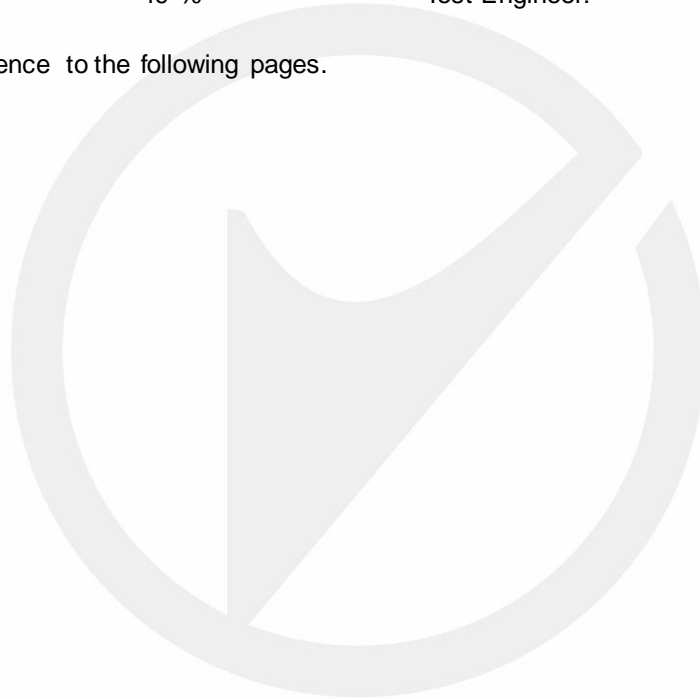
1011 mbar

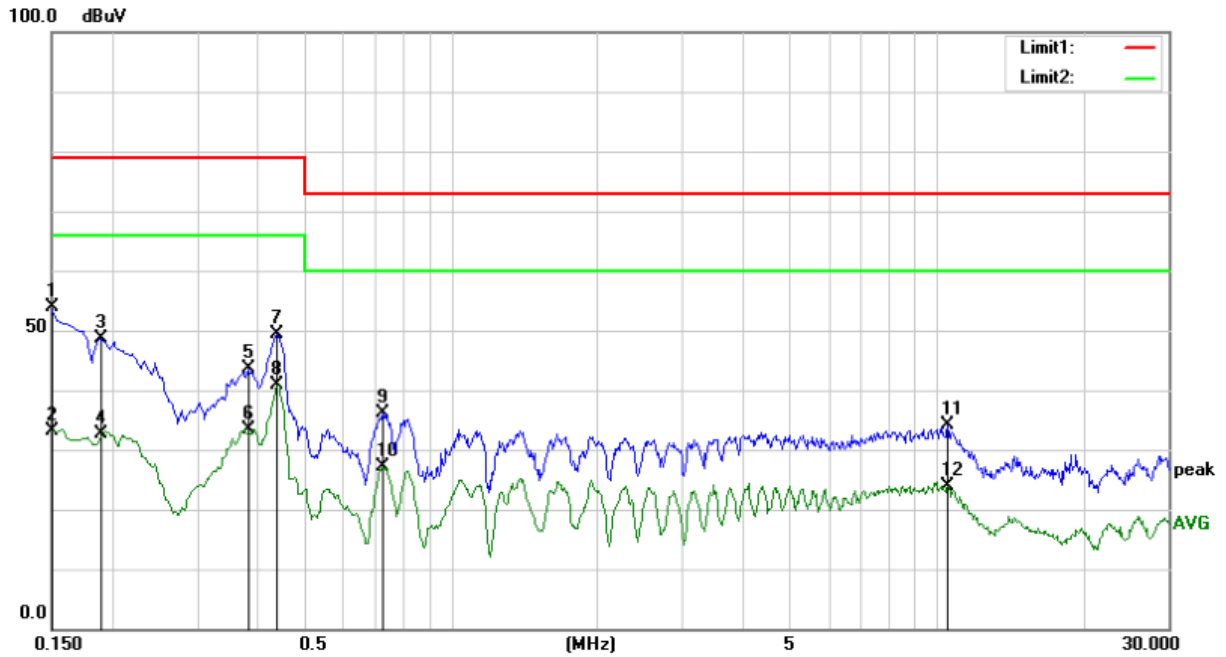
Humidity : 49 %

Test Engineer:

CSL

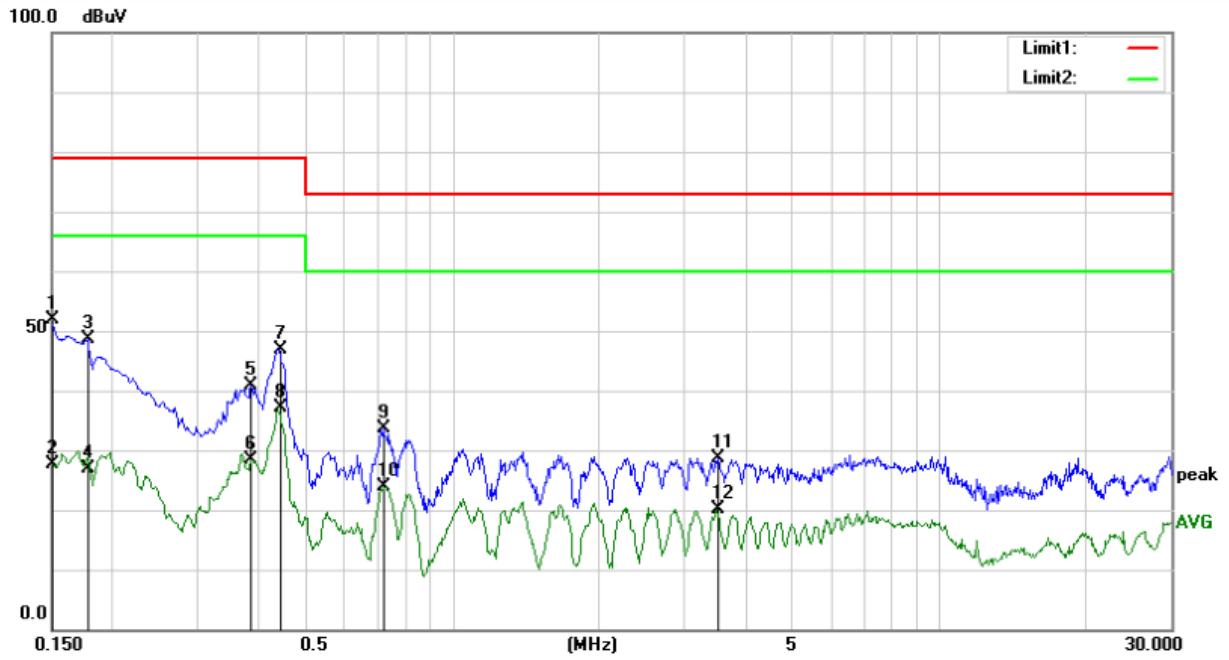
Please reference to the following pages.





Site Conduction #1 Phase: **L1** Temperature: 26.9

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	43.96	10.01	53.97	79.00	-25.03	QP	
2		0.1500	23.05	10.01	33.06	66.00	-32.94	AVG	
3		0.1900	38.68	10.03	48.71	79.00	-30.29	QP	
4		0.1900	22.68	10.03	32.71	66.00	-33.29	AVG	
5		0.3820	33.63	9.95	43.58	79.00	-35.42	QP	
6		0.3820	23.44	9.95	33.39	66.00	-32.61	AVG	
7		0.4380	39.37	9.94	49.31	79.00	-29.69	QP	
8		0.4380	30.83	9.94	40.77	66.00	-25.23	AVG	
9		0.7220	26.12	10.00	36.12	73.00	-36.88	QP	
10		0.7220	17.05	10.00	27.05	60.00	-32.95	AVG	
11		10.5100	23.90	10.14	34.04	73.00	-38.96	QP	
12		10.5100	13.65	10.14	23.79	60.00	-36.21	AVG	

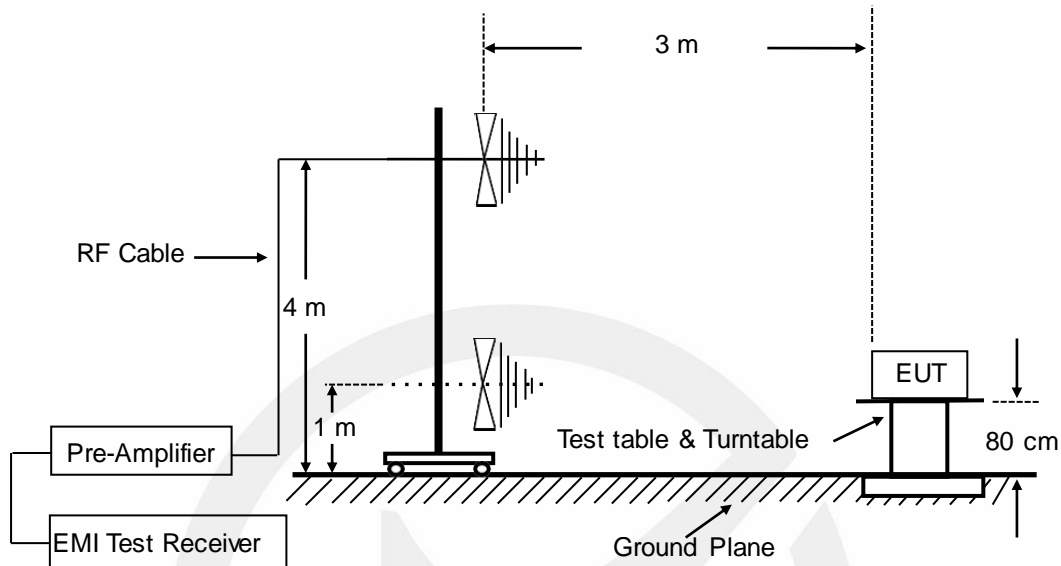


Site Conduction #1 Phase: **N** Temperature: 26.9

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	41.78	10.01	51.79	79.00	-27.21	QP	
2		0.1500	17.68	10.01	27.69	66.00	-38.31	AVG	
3		0.1780	38.57	10.04	48.61	79.00	-30.39	QP	
4		0.1780	16.94	10.04	26.98	66.00	-39.02	AVG	
5		0.3860	30.96	9.95	40.91	79.00	-38.09	QP	
6		0.3860	18.53	9.95	28.48	66.00	-37.52	AVG	
7		0.4420	36.91	9.94	46.85	79.00	-32.15	QP	
8		0.4420	27.13	9.94	37.07	66.00	-28.93	AVG	
9		0.7220	23.64	10.00	33.64	73.00	-39.36	QP	
10		0.7220	13.96	10.00	23.96	60.00	-36.04	AVG	
11		3.5100	18.61	9.97	28.58	73.00	-44.42	QP	
12		3.5100	10.12	9.97	20.09	60.00	-39.91	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 A

Frequency MHz	Distance Meters	Field Strengths Limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	10	90	39
88 ~ 216	10	150	43.5
216 ~ 960	10	210	46
960 ~ 1000	10	300	49.5

### 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.

The EUT was set 3 meters (or 10 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 $\mu$ V/m) = Antenna Factor - Amp Factor + Cable Loss + Reading

Margin (dB) = Emission Level (dB $\mu$ V/m) - Limit (dB $\mu$ V/m)

#### 5.4. Measuring Results

##### **PASS**

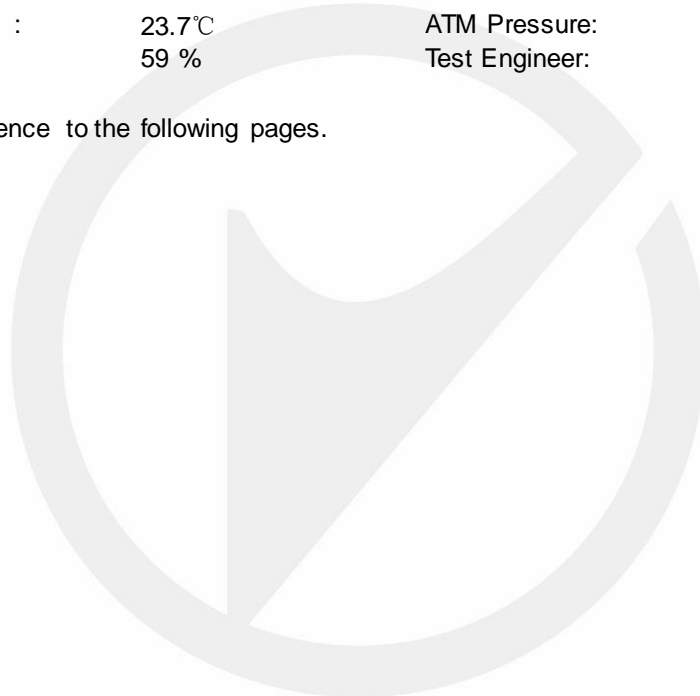
Temperature : 23.7°C

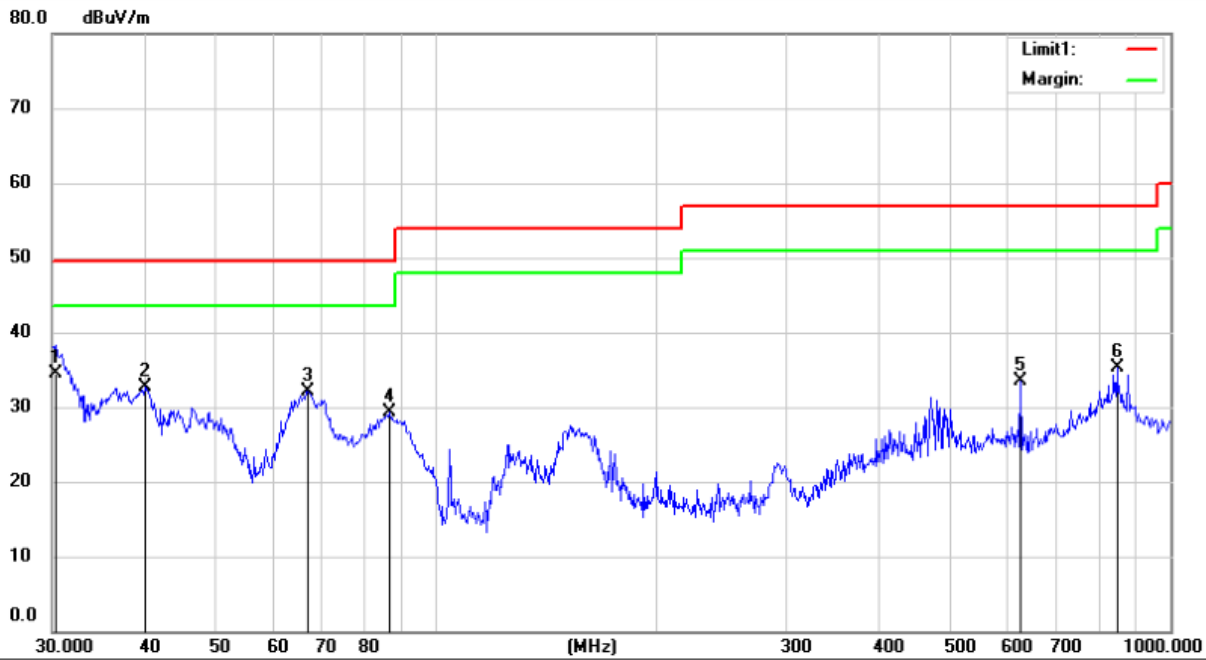
ATM Pressure: 1011 mbar

Humidity : 59 %

Test Engineer: ZL

Please reference to the following pages.



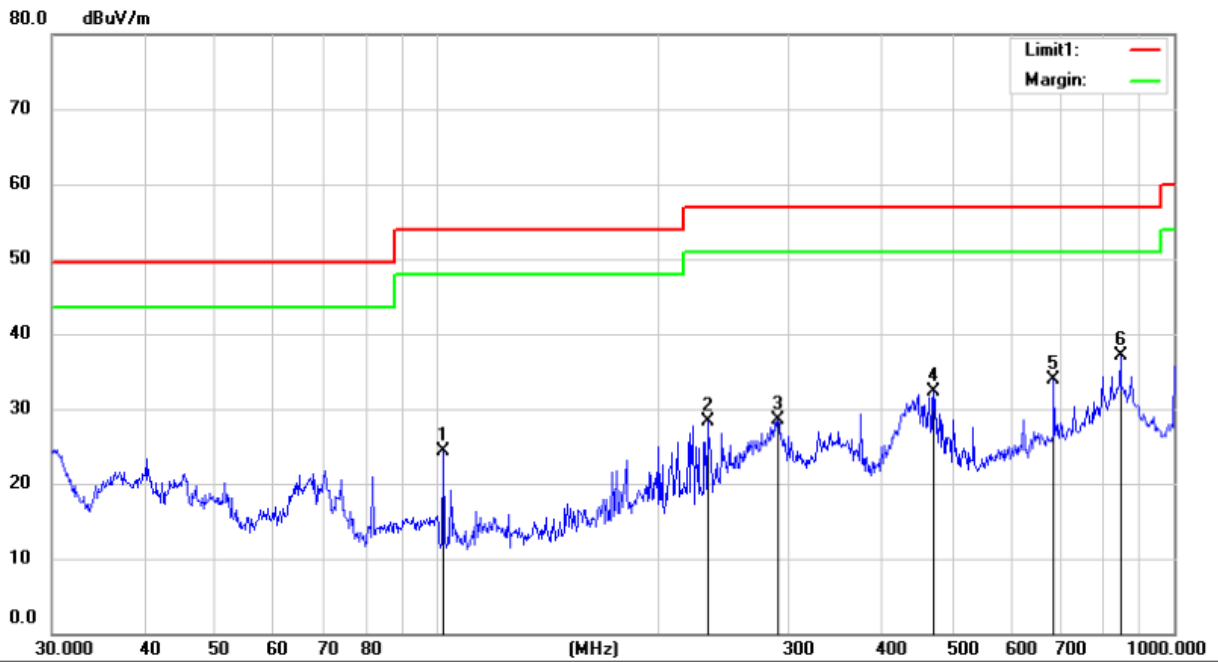


Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 23.7 C

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	30.3173	50.96	-16.52	34.44	49.50	-15.06	QP			
2		40.1347	47.61	-14.94	32.67	49.50	-16.83	QP			
3		66.9670	47.69	-15.56	32.13	49.50	-17.37	QP			
4		86.5030	46.71	-17.39	29.32	49.50	-20.18	QP			
5		625.0780	37.16	-3.73	33.43	56.90	-23.47	QP			
6		845.0878	33.32	1.91	35.23	56.90	-21.67	QP			



Site 3m Chamber #3

Polarization: **Horizontal**

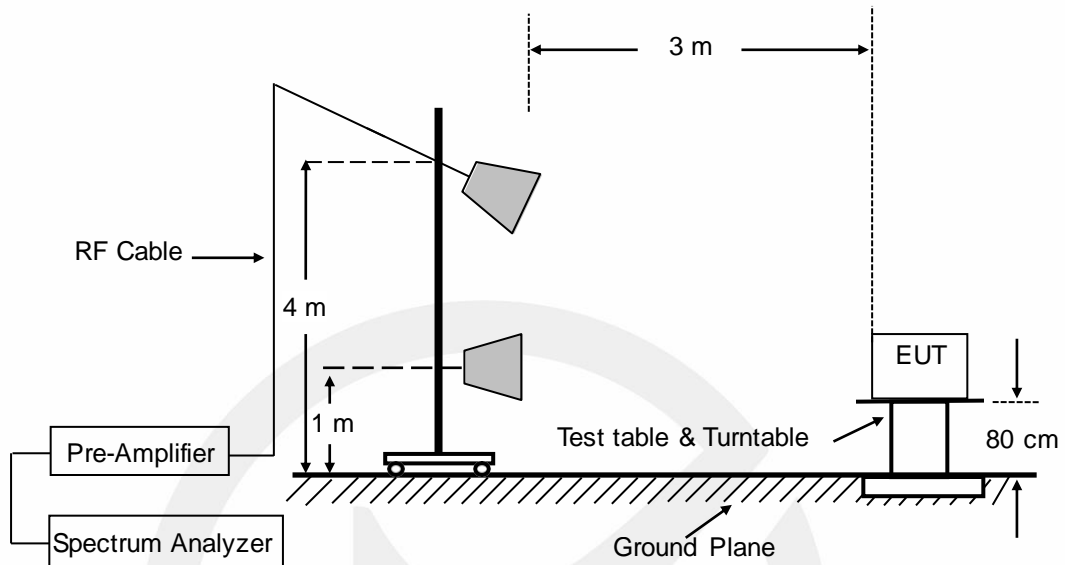
Temperature: 23.7 C

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		101.6443	40.70	-16.46	24.24	54.00	-29.76	QP		
2		232.5318	42.85	-14.63	28.22	56.90	-28.68	QP		
3		290.0172	40.37	-11.81	28.56	56.90	-28.34	QP		
4		472.1760	39.51	-7.13	32.38	56.90	-24.52	QP		
5		687.1507	36.08	-2.15	33.93	56.90	-22.97	QP		
6	*	845.0878	35.11	1.91	37.02	56.90	-19.88	QP		



## 6. RADIATED EMISSION MEASUREMENT (ABOVE 1GHz)

### 6.1. Block Diagram of Test Setup



### 6.2. Radiated Limit

FCC Part 15, Subpart B, Class A

Frequency range MHz	Average limit dB( $\mu$ V/m)	Peak limit dB( $\mu$ V/m)
Above 1000	59.5	79.5

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 $\mu$ V/m) = Antenna Factor - Amp Factor +Cable Loss + Reading

Margin (dB) = Emission Level (dB $\mu$ V/m) - Limit (dB $\mu$ V/m)

#### 6.4. Measuring Results

##### **PASS**

Temperature : 23.7 $^{\circ}$ C

ATM Pressure:

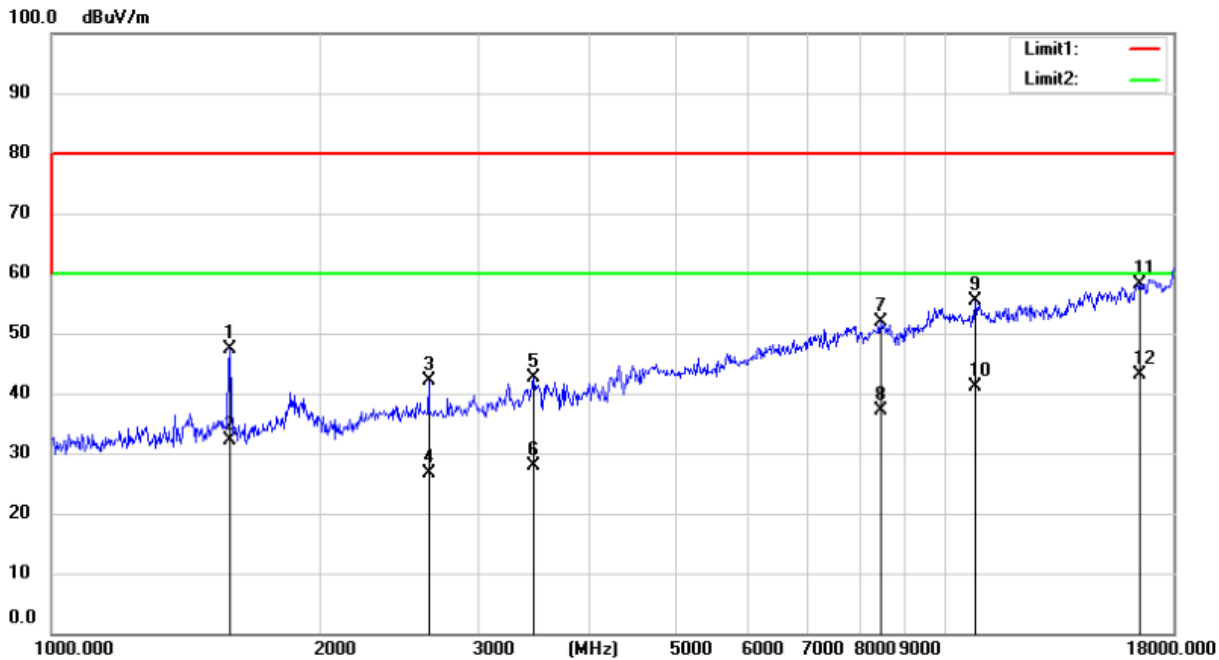
1011 mbar

Humidity : 59 %

Test Engineer:

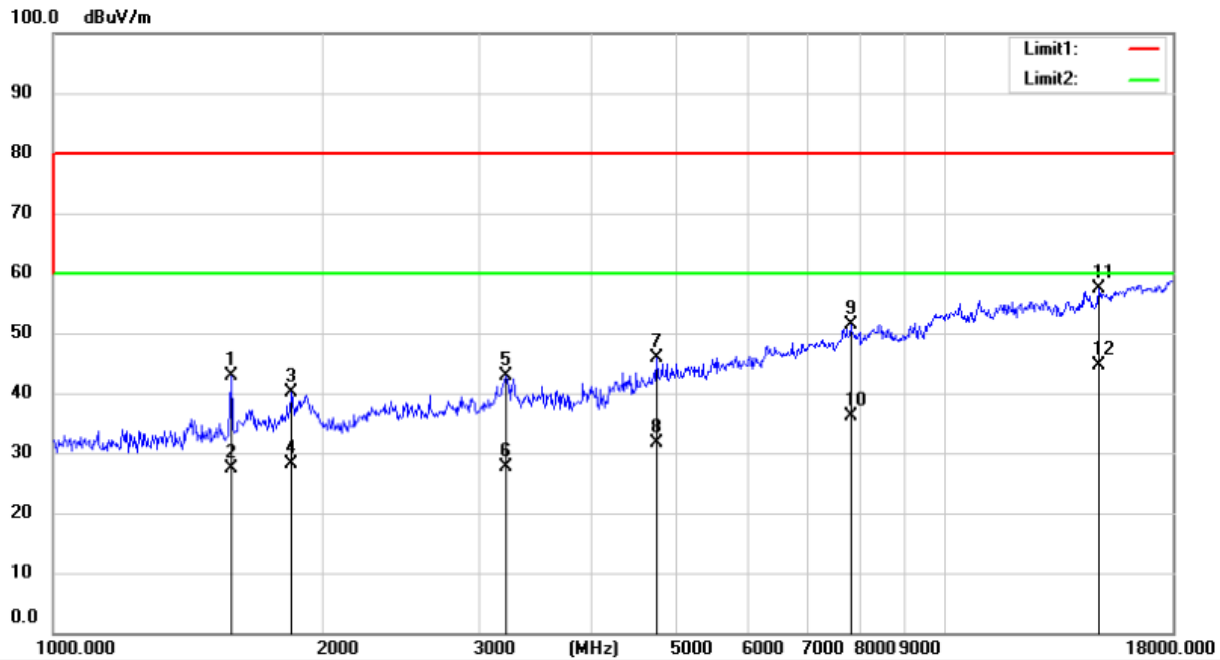
ZL

Please refer to following pages.



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 23.7 C

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		1583.391	61.20	-13.76	47.44	80.00	-32.56	peak		
2		1583.391	45.83	-13.76	32.07	60.00	-27.93	AVG		
3		2641.019	51.57	-9.56	42.01	80.00	-37.99	peak		
4		2641.019	36.17	-9.56	26.61	60.00	-33.39	AVG		
5		3465.510	50.74	-8.06	42.68	80.00	-37.32	peak		
6		3465.510	35.88	-8.06	27.82	60.00	-32.18	AVG		
7		8465.379	48.47	3.35	51.82	80.00	-28.18	peak		
8		8465.379	33.74	3.35	37.09	60.00	-22.91	AVG		
9		10791.68	47.47	7.95	55.42	80.00	-24.58	peak		
10		10791.68	33.17	7.95	41.12	60.00	-18.88	AVG		
11		16504.95	45.31	12.90	58.21	80.00	-21.79	peak		
12	*	16504.95	30.23	12.90	43.13	60.00	-16.87	AVG		

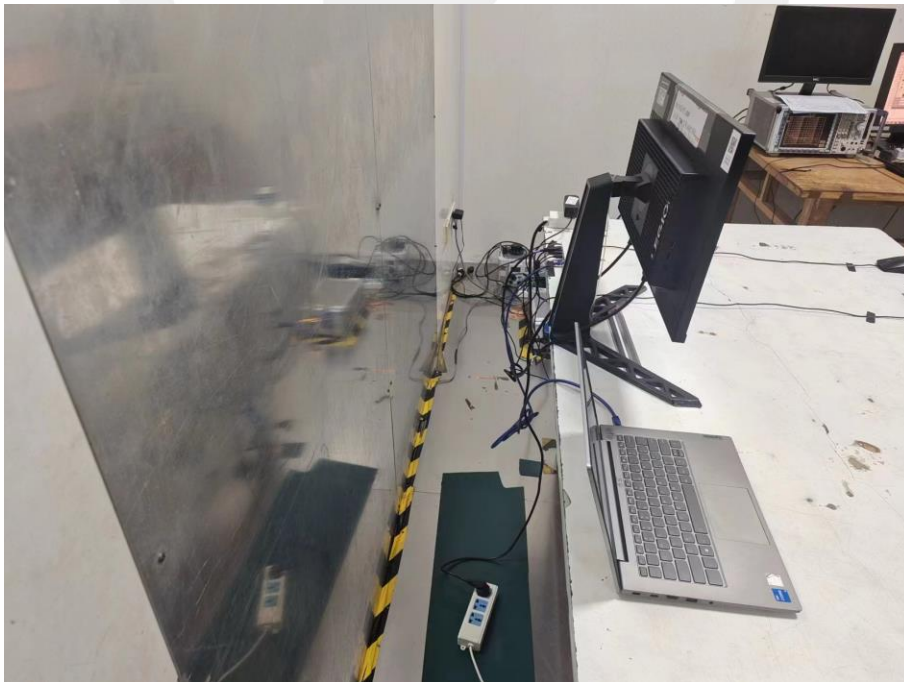


Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 23.7 C

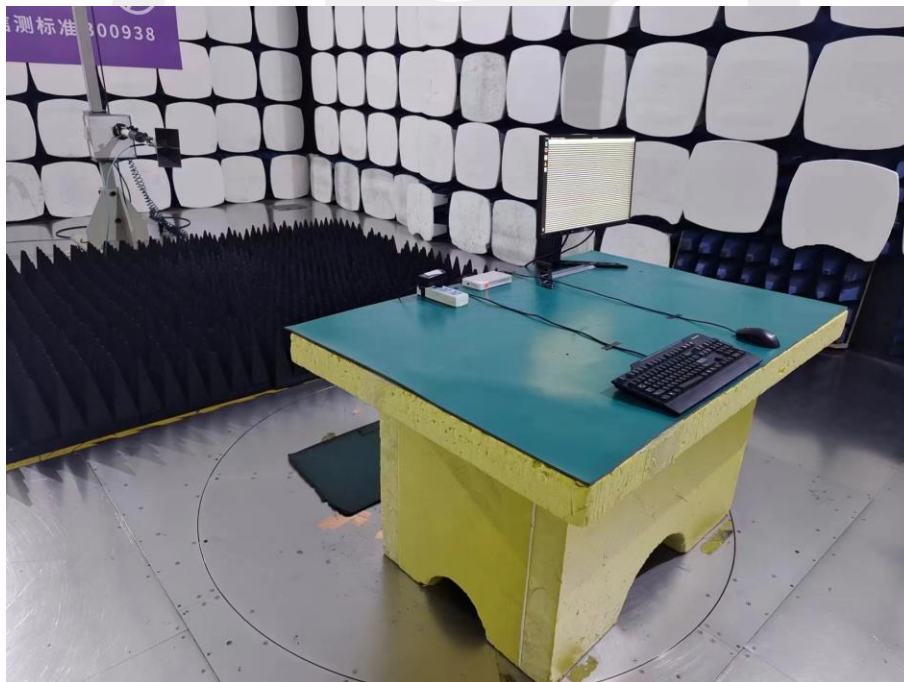
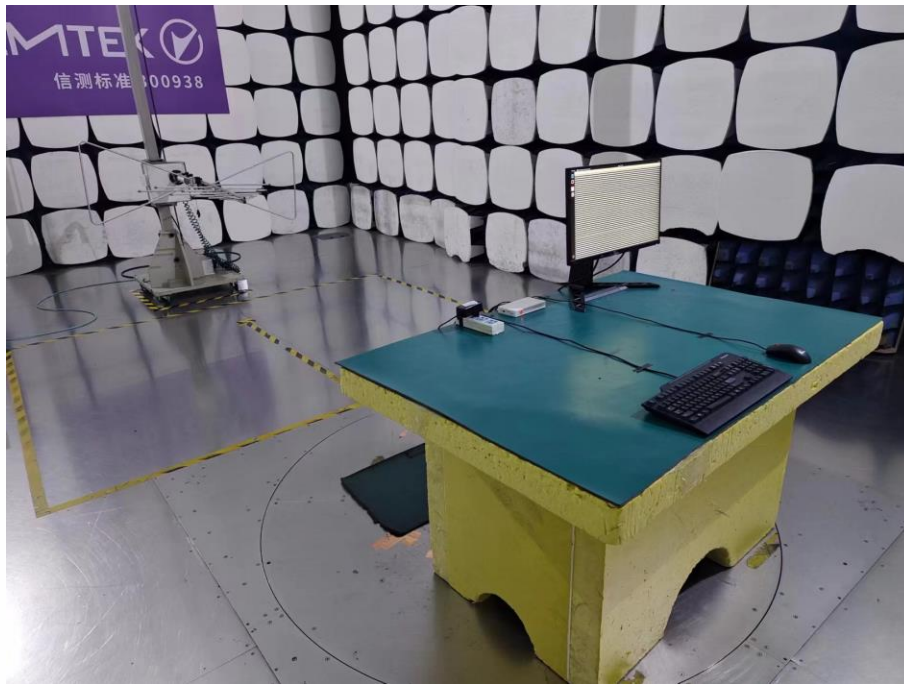
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		1583.392	56.75	-13.76	42.99	80.00	-37.01	peak		
2		1583.392	41.03	-13.76	27.27	60.00	-32.73	AVG		
3		1850.858	50.90	-10.78	40.12	80.00	-39.88	peak		
4		1850.858	38.96	-10.78	28.18	60.00	-31.82	AVG		
5		3223.928	51.11	-8.32	42.79	80.00	-37.21	peak		
6		3223.928	36.04	-8.32	27.72	60.00	-32.28	AVG		
7		4748.887	49.86	-3.87	45.99	80.00	-34.01	peak		
8		4748.887	35.43	-3.87	31.56	60.00	-28.44	AVG		
9		7829.860	48.71	2.79	51.50	80.00	-28.50	peak		
10		7829.860	33.37	2.79	36.16	60.00	-23.84	AVG		
11		14873.88	45.14	12.32	57.46	80.00	-22.54	peak		
12	*	14873.88	32.31	12.32	44.63	60.00	-15.37	AVG		

## 7. PHOTOGRAPHS

### 7.1. Photos of 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:

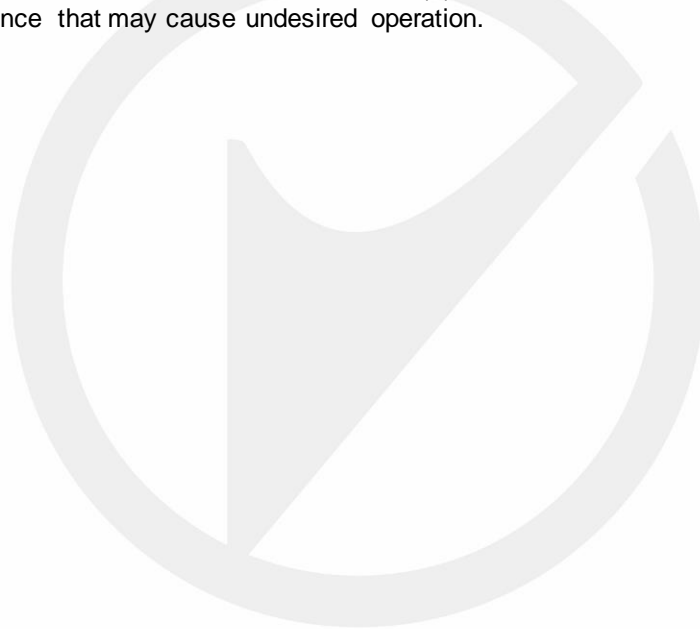
This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

(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:

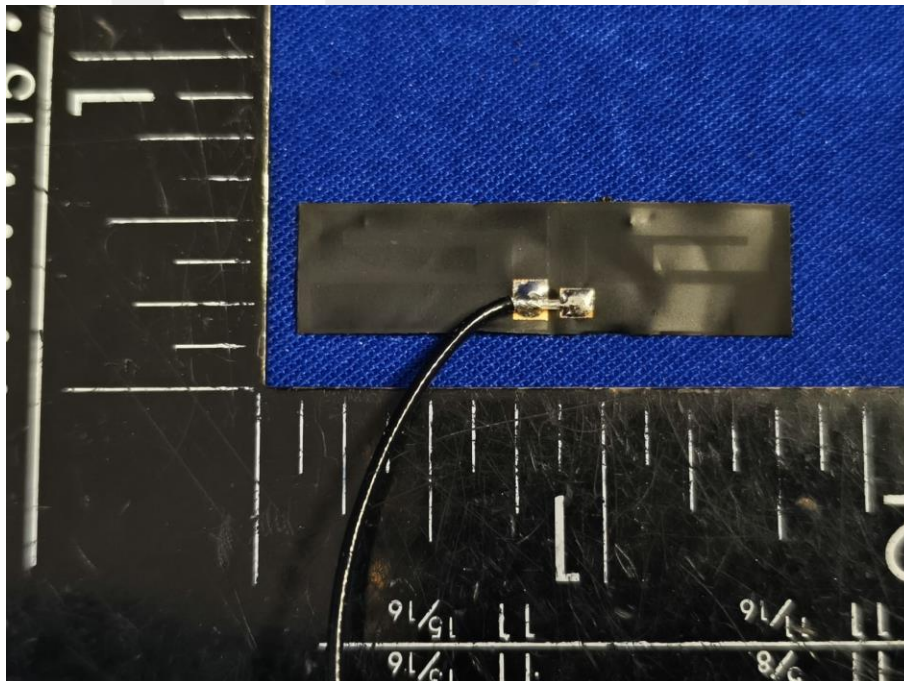
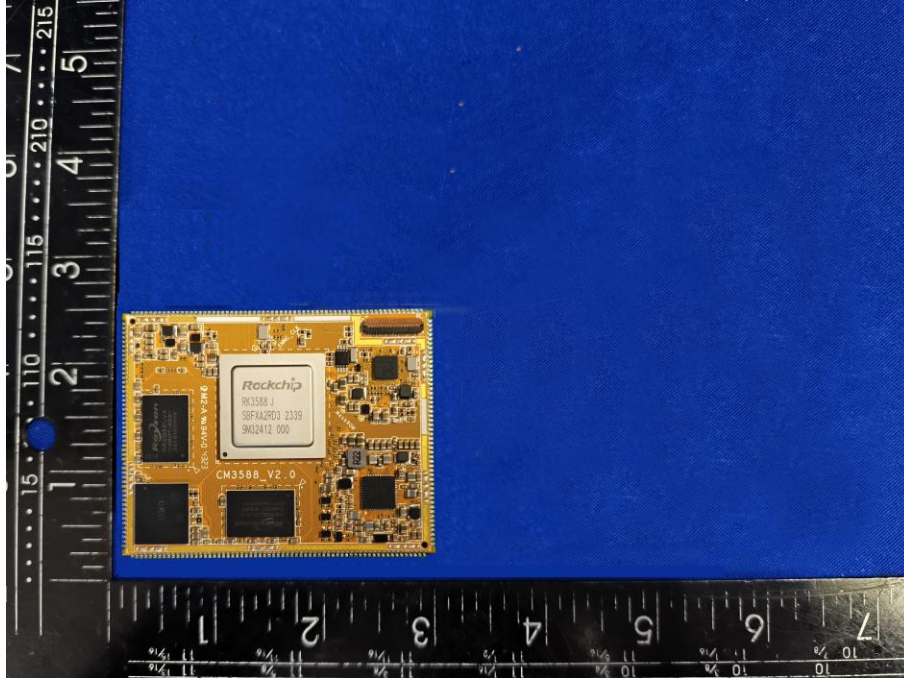
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate 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:

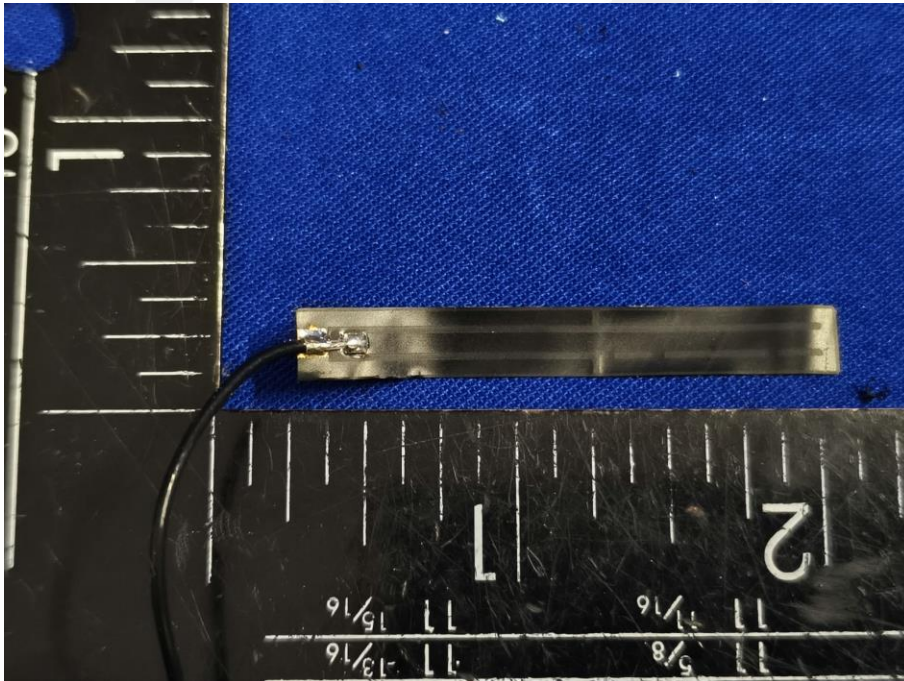
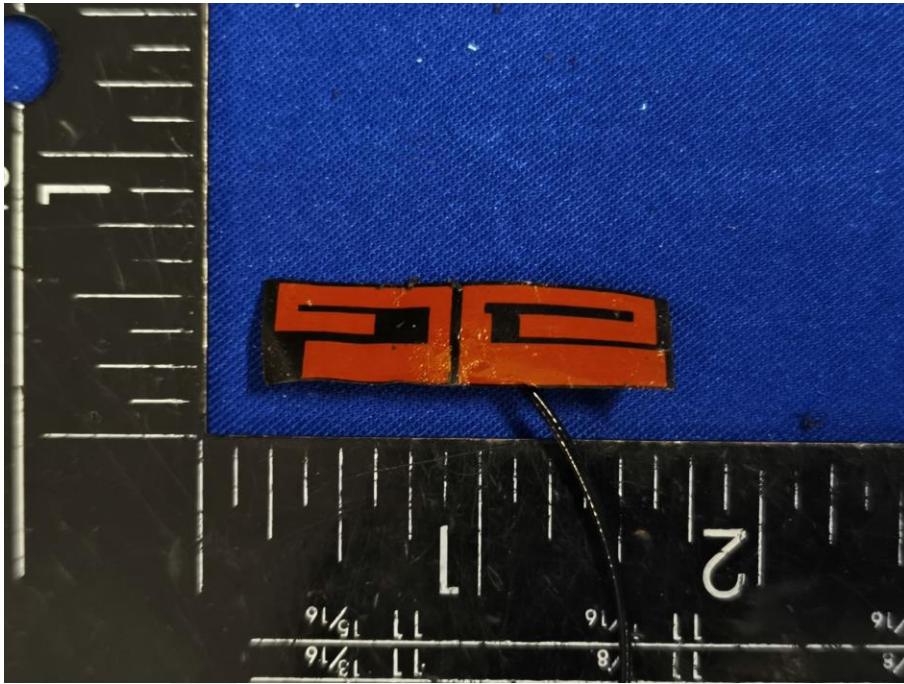
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

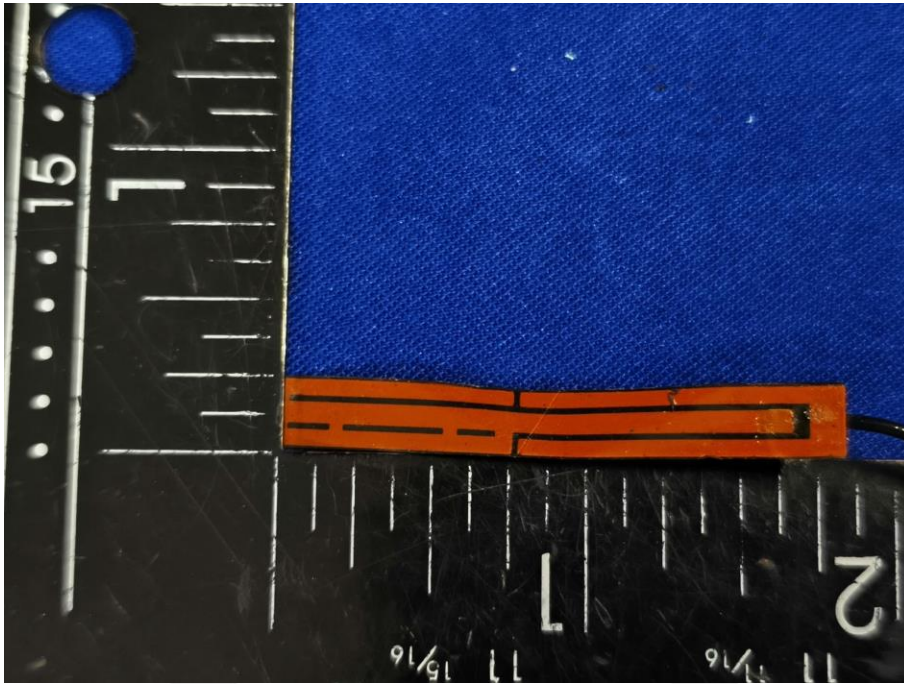
Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



## APPENDIX C: Photos of EUT







--- End of Report ---

## 声 明 Statement

1. 本报告无授权批准人签字及“检验检测专用章”无效。  
1. This report is invalid without the signature of the authorized approver and "special seal for testing".
2. 未经许可本报告不得部分复制。  
2. This report shall not be copied partly without authorization.
3. 本报告的检测结果仅对送测样品有效，委托方对样品的代表性和资料的真实性负责。  
3. The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the sample and authenticity of the material.
4. 本检测报告中检测项目标注有特殊符号则该项目不在资质认定范围内，仅作为客户委托、科研、教学或内部质量控制等目的使用。  
4. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
5. 本检测报告以实测值进行符合性判定，未考虑不确定度所带来的风险，本实验室不承担相关责任，特别约定、标准或规范中有明确规定的除外。  
5. The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, EMTEK shall not assume any responsibility.
6. 对本检验报告若有异议，请于收到报告之日起 20 日内提出。  
6. Objections shall be raised within 20 days from the date receiving the report.