

**FCC 47 CFR Part 15 Subpart B**

**TEST REPORT**

*For*

**QuarkPi-CA2**

**MODEL NUMBER: QuarkPi-CA2**

**REPORT NUMBER: E04A25020911F00201**

**ISSUE DATE: March 7, 2025**

*Prepared for*

**Guangzhou Xingyi Electronic Technology Co., Ltd  
Room 805-808, Room 801, Building 4, No. 1, 3, and 5, Kesheng Road, Guangzhou  
Private Science and Technology Park, No. 1633 Beitai Road, Baiyun District,  
Guangzhou City**

*Prepared by*

**Guangdong Global Testing Technology Co., Ltd.**

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park,  
Dongguan city, Guangdong, People's Republic of China, 523808**

**This report is based on a single evaluation of the submitted sample(s) of the above mentioned product, it does not imply an assessment of the production of the products.**

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 7, 2025	Initial Issue	

**Summary of Test Results**

<b>Emission</b>			
<b>Standard</b>	<b>Test Item</b>	<b>Limit</b>	<b>Result</b>
FCC 47 CFR Part 15 Subpart B	Conducted emissions	FCC Part 15.107	Pass
	Radiated emissions below 1GHz	FCC Part 15.109	Pass
	Radiated emissions above 1GHz	FCC Part 15.109	Pass

\*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

\*The measurement result for the sample received is <Pass> according to <FCC 47 CFR Part 15 Subpart B> when <Accuracy Method> decision rule is applied.

## CONTENTS

<b>1. ATTESTATION OF TEST RESULTS.....</b>	<b>5</b>
<b>2. TEST METHODOLOGY.....</b>	<b>6</b>
<b>3. FACILITIES AND ACCREDITATION.....</b>	<b>6</b>
<b>4. CALIBRATION AND UNCERTAINTY .....</b>	<b>7</b>
4.1. <i>MEASURING INSTRUMENT CALIBRATION .....</i>	<i>7</i>
4.2. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>7</i>
<b>5. EQUIPMENT UNDER TEST .....</b>	<b>8</b>
5.1. <i>DESCRIPTION OF EUT .....</i>	<i>8</i>
5.2. <i>TEST MODE.....</i>	<i>8</i>
5.3. <i>SUPPORT UNITS FOR SYSTEM TEST .....</i>	<i>8</i>
<b>6. MEASURING EQUIPMENT AND SOFTWARE USED.....</b>	<b>9</b>
<b>7. EMISSION TEST .....</b>	<b>10</b>
7.1. <i>Conducted emissions.....</i>	<i>10</i>
7.2. <i>Radiated emissions below 1GHz .....</i>	<i>14</i>
7.3. <i>Radiated emissions above 1GHz.....</i>	<i>18</i>
<b>APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION .....</b>	<b>22</b>
<b>APPENDIX: PHOTOGRAPHS OF THE EUT .....</b>	<b>24</b>

## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: Guangzhou Xingyi Electronic Technology Co., Ltd  
Address: Room 805-808, Room 801, Building 4, No. 1, 3, and 5, Kesheng Road, Guangzhou Private Science and Technology Park, No. 1633 Beitai Road, Baiyun District, Guangzhou City

### Manufacturer Information

Company Name: Guangzhou Xingyi Electronic Technology Co., Ltd  
Address: Room 805-808, Room 801, Building 4, No. 1, 3, and 5, Kesheng Road, Guangzhou Private Science and Technology Park, No. 1633 Beitai Road, Baiyun District, Guangzhou City

### Factory Information

Company Name: Guangzhou P.E.T Precision Electronic Technology Co., Ltd  
Address: 3rd Floor, No. 11 Shunjing Road, Daxiang Village, Renhe Town, Baiyun District, Guangzhou City (Airport Baiyun)

### EUT Information

Product Description: QuarkPi-CA2  
Model: QuarkPi-CA2  
Brand: ALIENTEK  
Sample Received Date: 27 February 2025  
Sample ID: A25020911 001  
Date of Tested: February 28, 2025 to March 7, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B	Pass

Prepared By:



Jansen Lin

Project Engineer

Checked By:



Alan He

Laboratory Leader

Approved By:



Shawn Wen

Laboratory Manager



## 2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15 Subpart B

## 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p><b>A2LA (Certificate No.: 6947.01)</b> Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1343)</b> Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules</p> <p><b>ISED (Company No.: 30714)</b> Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.</p>
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

### 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions	0.009 MHz - 30 MHz	2	3.37
Radiated emissions below 1GHz	30 MHz -1 GHz	2	3.79
Radiated emissions above 1GHz	1 GHz - 18 GHz	2	5.62
Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.			
Note 2: According to the standard CISPR 16-4-2, the MU for the Conducted emissions from the AC mains power ports using AMN should not exceed 3.8 in range of 9kHz to 150kHz and 3.4 in range of 150kHz to 30MHz. We have considered the test results containing the value of U <sub>lab</sub> (in dB) for the measurement instrumentation actually used for the measurements.			

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

EUT Name		QuarkPi-CA2
Model		QuarkPi-CA2
EUT Classification		Class B
Internal Frequency		above 108MHz
Ratings		INPUT:DC12V 2.5A
Power Supply	DC	DC12V from adapter

### 5.2. TEST MODE

Test Mode	Description
M01	FULL LOAD

### 5.3. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit



## 6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielding Room 1	CHENG YU	8*5*4	N/A	10/29/2022	10/28/2025
LISN	R&S	ENV216	102843	9/13/2024	9/12/2025
EMI Test Receiver	R&S	ESR3	102647	9/14/2024	9/13/2025
LISN	Schwarzbeck	NNLK 8129 RC	5046	9/13/2024	9/12/2025
8-Wire ISN CAT6	Schwarzbeck	NTFM 8158	#237	9/14/2024	9/13/2025
CURRENT PROBE	R&S	EZ-17	101602	9/14/2024	9/13/2025
Test Software for CE	Farad	EZ-EMC	V1.1.4.2	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Chamber	ETS	9*6*6	Q2146	8/30/2022	8/29/2025
Receiver	R&S	ESCI3	101409	9/14/2024	9/13/2025
Loop Antenna	ETS	6502	243668	3/30/2022	3/30/2025
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	9/14/2024	9/13/2025
Biconilog Antenna	Schwarzbeck	VULB 9168	1315	10/10/2022	10/9/2025
Biconilog Antenna	ETS	3142E	243646	3/23/2022	3/22/2025
Test Software for RE	Farad	EZ-EMC	V1.1.4.2	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	R&S	FSV40	101413	9/14/2024	9/13/2025
Pre-Amplifier	HzEMC	HPA-1G1850	HYP A21003	9/14/2024	9/13/2025
Horn antenna	ETS	3117	246069	3/11/2022	3/10/2025
Pre-Amplifier	ETS	HPA-184057	HYP A21004	9/14/2024	9/13/2025
Horn antenna	ETS	3116C	246265	3/29/2022	3/28/2025
Test Software for RE	Farad	EZ-EMC	V1.1.4.2	N/A	N/A

## 7. EMISSION TEST

### 7.1. CONDUCTED EMISSIONS

#### LIMITS

CFR 47 FCC Part15 Subpart B				
FREQUENCY (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46*
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

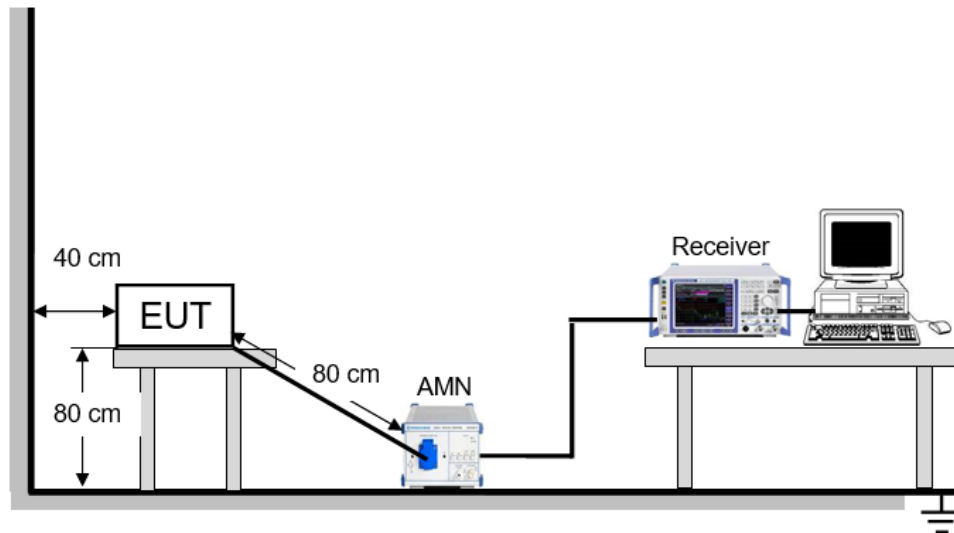
- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

#### TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
5. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

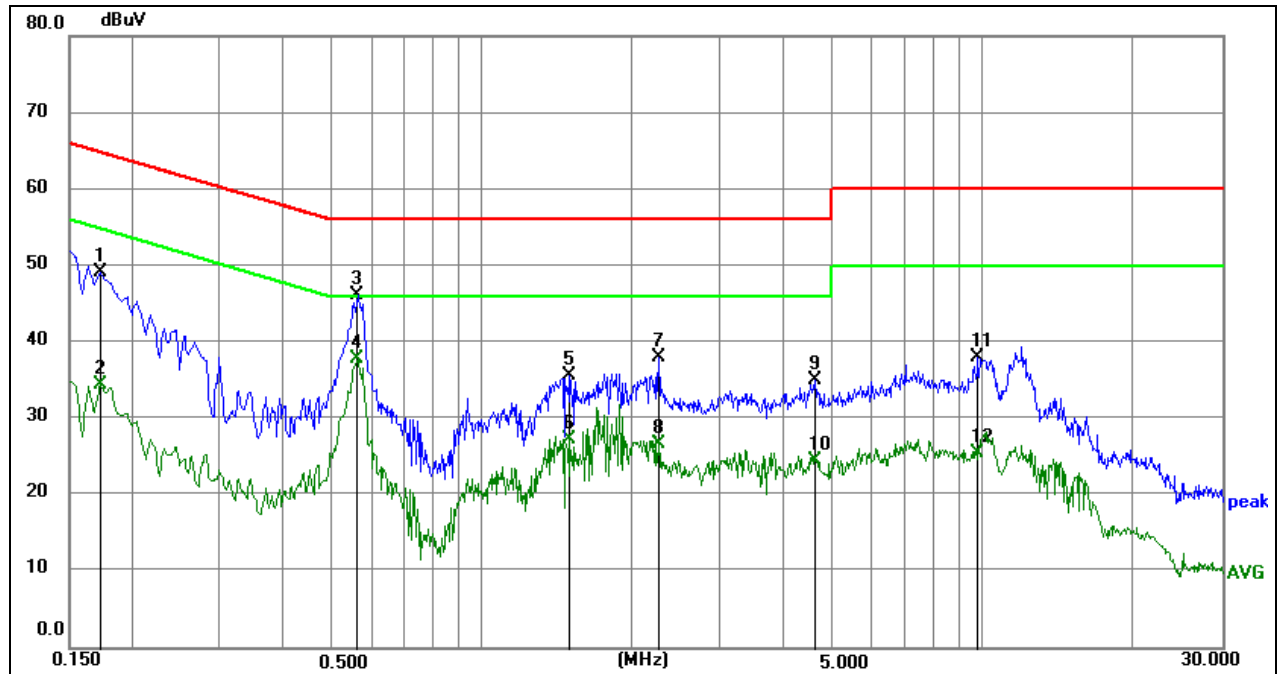
**TEST SETUP****TEST ENVIRONMENT**

Temperature	23.4°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

**TEST MODE**

Pre-test Mode:	M01 ~ M01
Final Test Mode:	M01

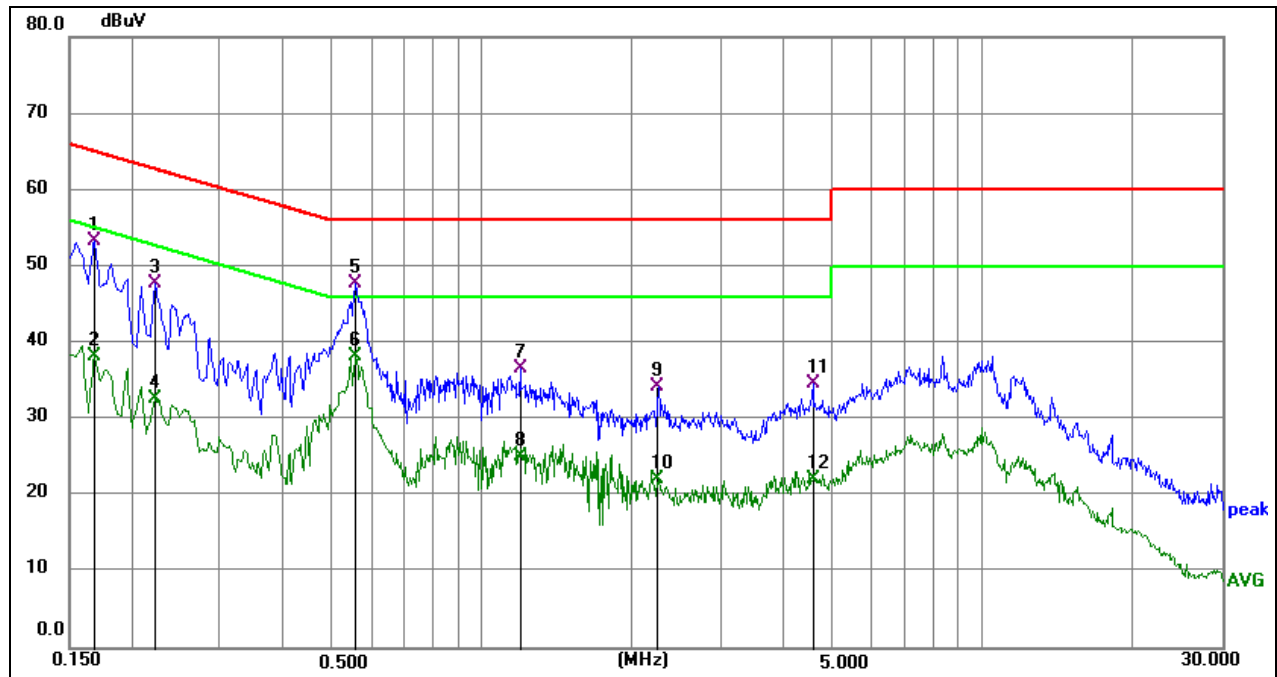
Note: All test modes had been tested, but only the worst data recorded in the report.

**TEST RESULTS**

Phase: L1

Mode: M01

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1725	39.34	9.71	49.05	64.84	-15.79	peak
2	0.1725	24.70	9.71	34.41	54.84	-20.43	AVG
3	0.5639	36.40	9.82	46.22	56.00	-9.78	peak
4	0.5639	27.93	9.82	37.75	46.00	-8.25	AVG
5	1.4955	25.71	9.84	35.55	56.00	-20.45	peak
6	1.4955	17.44	9.84	27.28	46.00	-18.72	AVG
7	2.2515	28.04	9.93	37.97	56.00	-18.03	peak
8	2.2515	16.75	9.93	26.68	46.00	-19.32	AVG
9	4.6275	25.19	9.86	35.05	56.00	-20.95	peak
10	4.6275	14.61	9.86	24.47	46.00	-21.53	AVG
11	9.7665	28.06	9.89	37.95	60.00	-22.05	peak
12	9.7665	15.65	9.89	25.54	50.00	-24.46	AVG



Phase: N

Mode: M01

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1680	43.46	9.87	53.33	65.06	-11.73	QP
2	0.1680	28.37	9.87	38.24	55.06	-16.82	AVG
3	0.2220	37.87	9.80	47.67	62.74	-15.07	QP
4	0.2220	22.82	9.80	32.62	52.74	-20.12	AVG
5	0.5595	38.06	9.75	47.81	56.00	-8.19	QP
6	0.5595	28.56	9.75	38.31	46.00	-7.69	AVG
7	1.1940	26.84	9.82	36.66	56.00	-19.34	QP
8	1.1940	15.22	9.82	25.04	46.00	-20.96	AVG
9	2.2559	24.52	9.75	34.27	56.00	-21.73	QP
10	2.2559	12.30	9.75	22.05	46.00	-23.95	AVG
11	4.5960	24.67	9.88	34.55	56.00	-21.45	QP
12	4.5960	12.31	9.88	22.19	46.00	-23.81	AVG

Remark: Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)

Margin = Result - Limit

## 7.2. RADIATED EMISSIONS BELOW 1GHZ

### LIMITS

Below 1 GHz

CFR 47 FCC Part 15 Subpart B		
Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3 m)	Field strength (dBuV/m) (at 3 m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

Test Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m),  
3m Emission level = 10 m Emission level + 20log(10 m/3 m);

### TEST PROCEDURE

Below 1 GHz and above 30 MHz

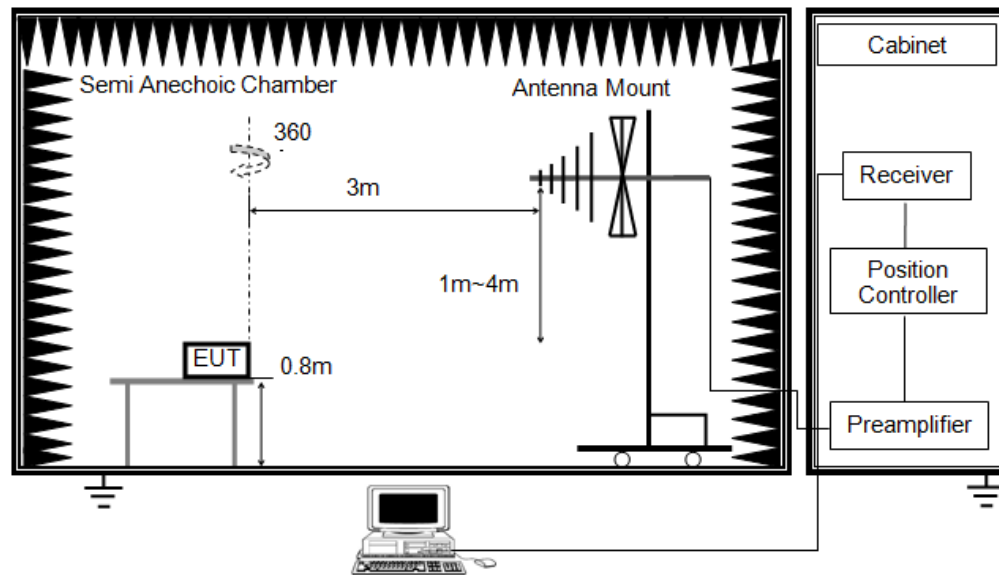
The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak and QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp was used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
8. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

### **TEST SETUP**



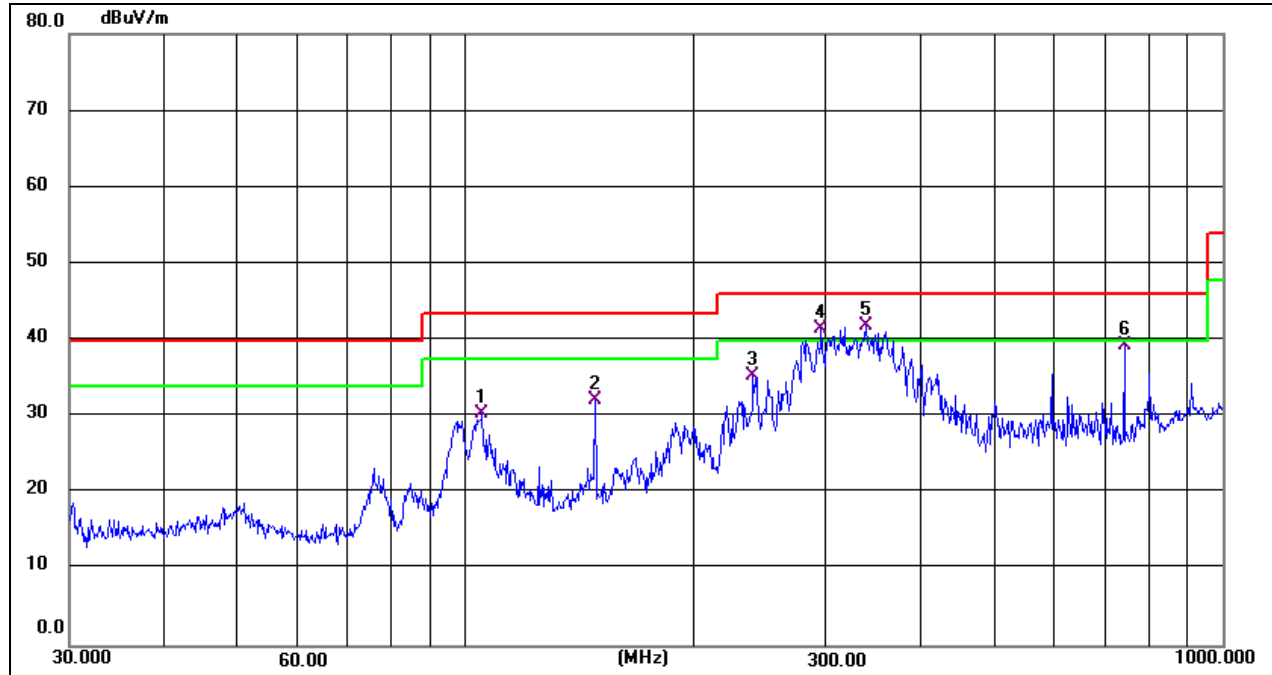
### **TEST ENVIRONMENT**

Temperature	23°C	Relative Humidity	47%
Atmosphere Pressure	101kPa		

### **TEST MODE**

Pre-test Mode:	M01 ~ M01
Final Test Mode:	M01

Note: All test modes had been tested, but only the worst data recorded in the report.

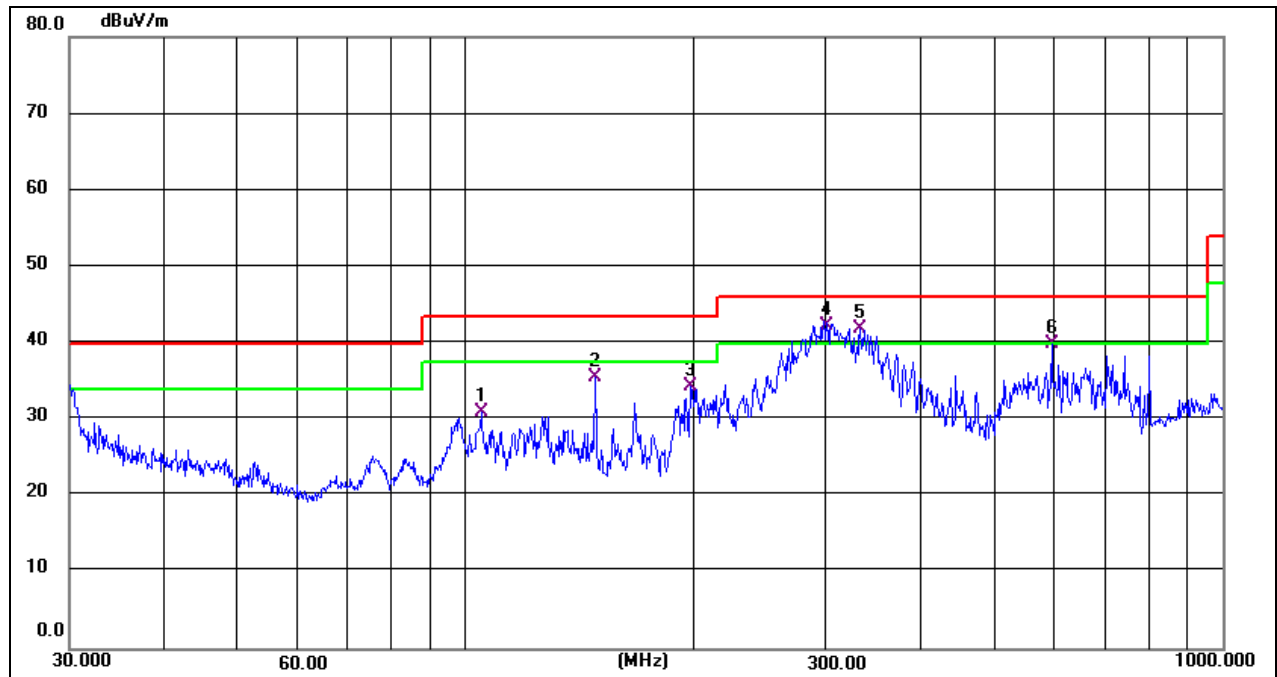
**TEST RESULTS**

Antenna::Horizontal

Mode: M01

No .	Frequenc y (MHz)	Reading Level(dBuV )	Correct Factor(dB/m )	Measure- ment(dBuV/m )	Limit (dBuV/m )	Margi n (dB)	Detecto r	Commen t
1	105.2718	45.25	-14.92	30.33	43.50	-13.17	QP	
2	148.4410	43.82	-11.59	32.23	43.50	-11.27	QP	
3	239.9874	49.64	-14.38	35.26	46.00	-10.74	QP	
4 !	295.1469	54.17	-12.76	41.41	46.00	-4.59	QP	
5 *	338.4001	53.49	-11.54	41.95	46.00	-4.05	QP	
6	742.2587	41.97	-2.58	39.39	46.00	-6.61	QP	





Antenna::Vertical

Mode: M01

No .	Frequenc y (MHz)	Reading Level(dBuV )	Correct Factor(dB/m )	Measure- ment(dBuV/m )	Limit (dBuV/m )	Margi n (dB)	Detecto r	Commen t
1	104.9033	45.96	-14.96	31.00	43.50	-12.50	QP	
2	148.4410	47.04	-11.59	35.45	43.50	-8.05	QP	
3	198.5880	49.72	-15.41	34.31	43.50	-9.19	QP	
4 *	300.3672	54.88	-12.60	42.28	46.00	-3.72	QP	
5 !	332.5187	53.60	-11.70	41.90	46.00	-4.10	QP	
6	595.1329	44.80	-4.90	39.90	46.00	-6.10	QP	

Remark: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)

2. Margin = Result - Limit

### 7.3. RADIATED EMISSIONS ABOVE 1GHZ

#### LIMITS

Above 1 GHz

CFR 47 FCC Part 15 Subpart B				
Frequency (MHz)	Class A		Class B	
	(dBuV/m) (at 3 m)		(dBuV/m) (at 3 m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

Test Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m),  
3m Emission level = 10 m Emission level + 20log(10 m/3 m);

#### TEST PROCEDURE

Above 1 GHz

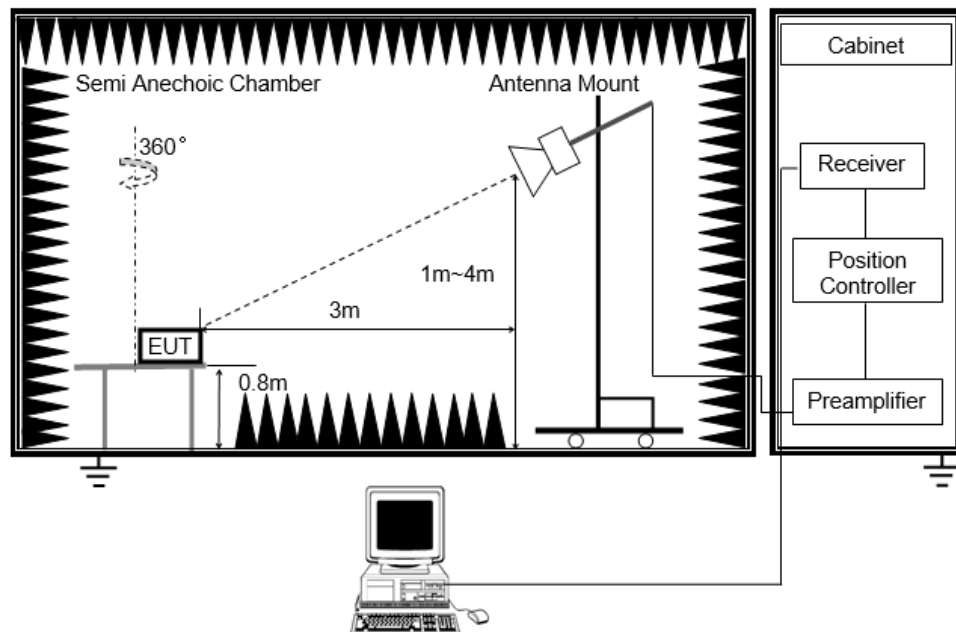
The setting of the spectrum analyser

RBW	1 MHz
VBW	3 MHz
Sweep	Auto
Detector	Peak: Peak AVG: RMS
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
8. For measurement above 1 GHz, the peak emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the peak limit specified in Section 15.109. If peak result complies with average limit, average result is deemed to comply with average limit.
9. The average emission measurement will be measured by the RMS detector and must comply with the average limit specified in Section 15.109.

### **TEST SETUP**



### **TEST ENVIRONMENT**

Temperature	22.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

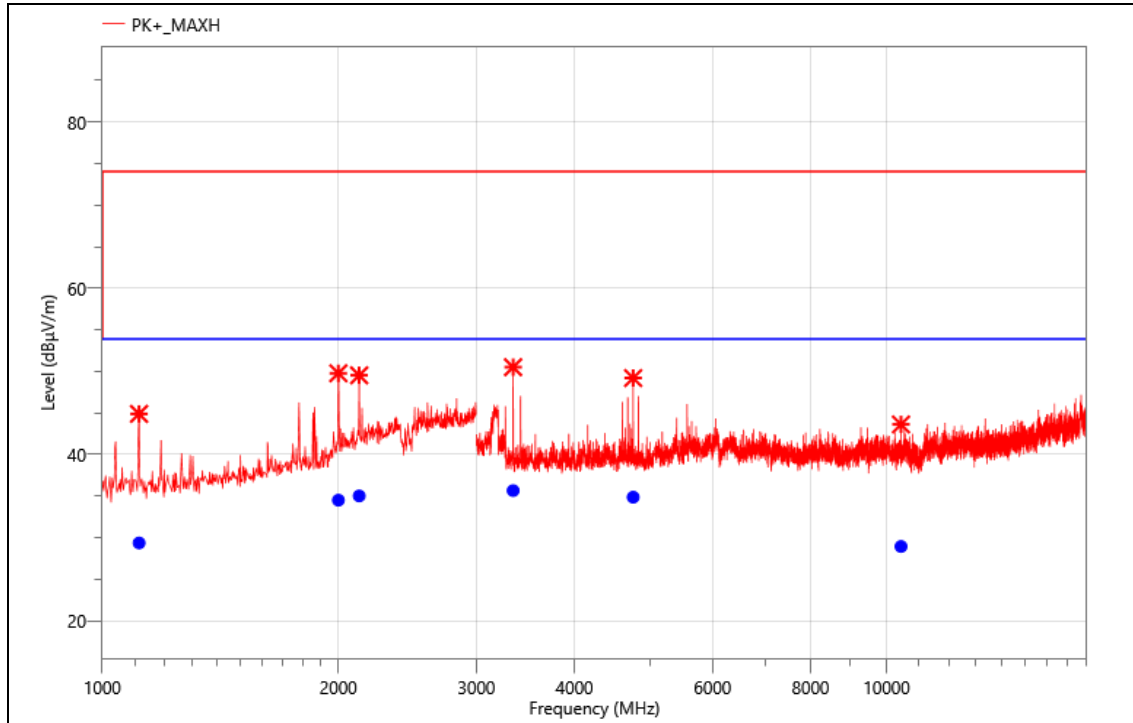
### **TEST MODE**

Pre-test Mode:	M01 ~ M01
Final Test Mode:	M01

Note: All test modes had been tested, but only the worst data recorded in the report.

**TEST RESULTS**

Mode:	M01
Power:	AC 230V/50Hz for DC12V
TE:	Fink
Date	2025/03/01
T/A/P	22.1°C/51%/101Kpa

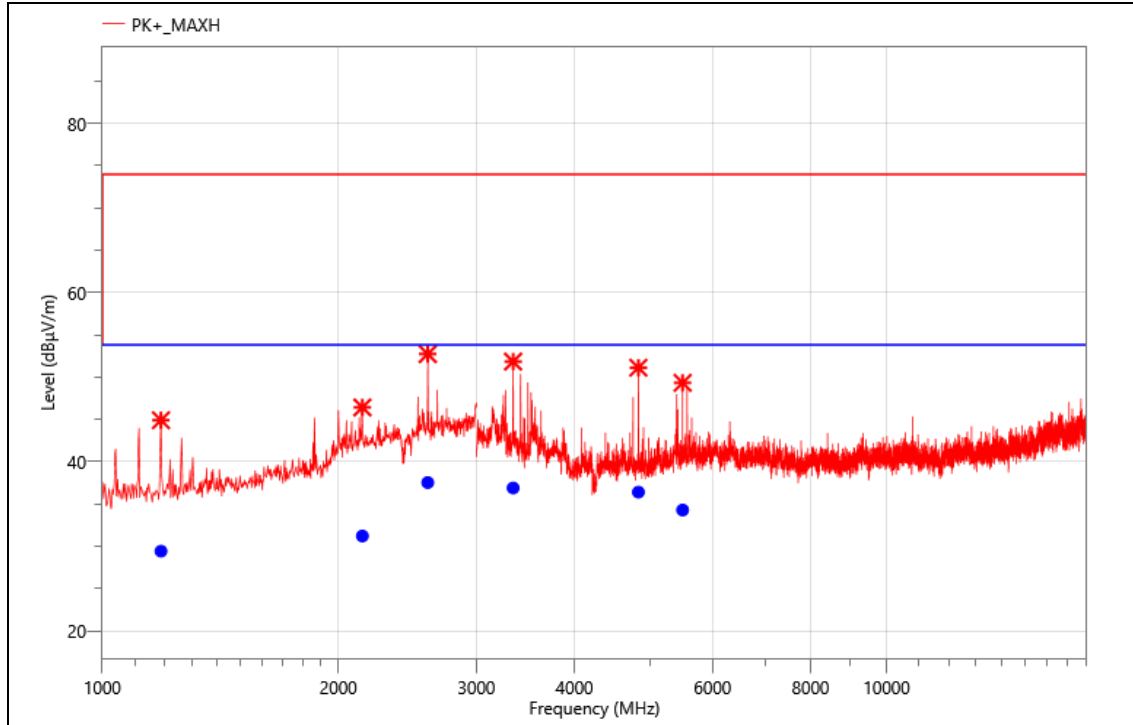
**Critical\_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1114.000	59.93	-15.04	44.89	74.00	29.11	PK+	H
2	2000.000	58.88	-9.1	49.78	74.00	24.22	PK+	H
3	2126.000	58.60	-9.07	49.53	74.00	24.47	PK+	H
4	3340.500	64.98	-14.47	50.51	74.00	23.49	PK+	H
5	4752.000	60.64	-11.44	49.20	74.00	24.80	PK+	H
6	10432.500	49.40	-5.78	43.62	74.00	30.38	PK+	H

**Final\_Result**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	1114.000	44.40	-15.04	29.36	53.90	24.54	AVG	H	PASS
2	2000.000	43.61	-9.1	34.51	53.90	19.39	AVG	H	PASS
3	2126.000	44.09	-9.07	35.02	53.90	18.88	AVG	H	PASS
4	3340.500	50.13	-14.47	35.66	53.90	18.24	AVG	H	PASS
5	4752.000	46.31	-11.44	34.87	53.90	19.03	AVG	H	PASS
6	10432.500	34.72	-5.78	28.94	53.90	24.96	AVG	H	PASS

Mode:	M01
Power:	AC 230V/50Hz for DC12V
TE:	Fink
Date	2025/03/01
T/A/P	22.1°C/51%/101Kpa



### Critical\_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1188.000	59.59	-14.68	44.91	74.00	29.09	PK+	V
2	2146.000	55.47	-9.05	46.42	74.00	27.58	PK+	V
3	2600.000	60.88	-8.15	52.73	74.00	21.27	PK+	V
4	3340.500	66.31	-14.47	51.84	74.00	22.16	PK+	V
5	4825.500	62.60	-11.48	51.12	74.00	22.88	PK+	V
6	5494.500	59.07	-9.74	49.33	74.00	24.67	PK+	V

### Final\_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	1188.000	44.11	-14.68	29.43	53.90	24.47	AVG	V	PASS
2	2146.000	40.27	-9.05	31.22	53.90	22.68	AVG	V	PASS
3	2600.000	45.69	-8.15	37.54	53.90	16.36	AVG	V	PASS
4	3340.500	51.37	-14.47	36.90	53.90	17.00	AVG	V	PASS
5	4825.500	47.89	-11.48	36.41	53.90	17.49	AVG	V	PASS
6	5494.500	44.03	-9.74	34.29	53.90	19.61	AVG	V	PASS

Remark: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)

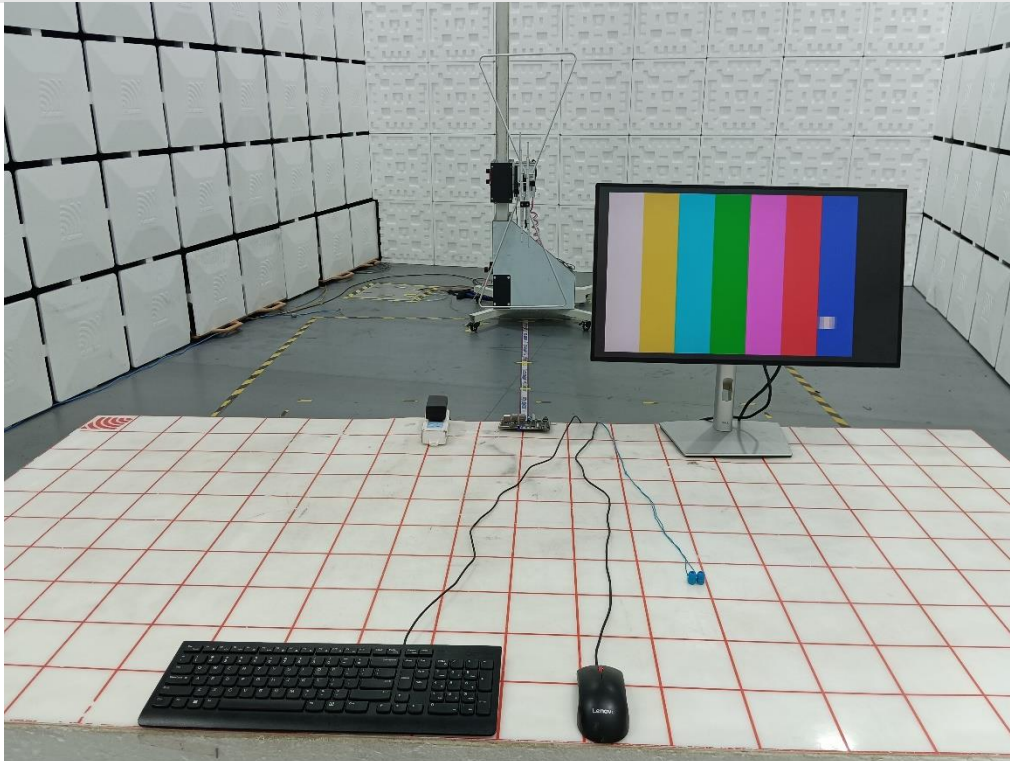
2. Margin = Result - Limit

## APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

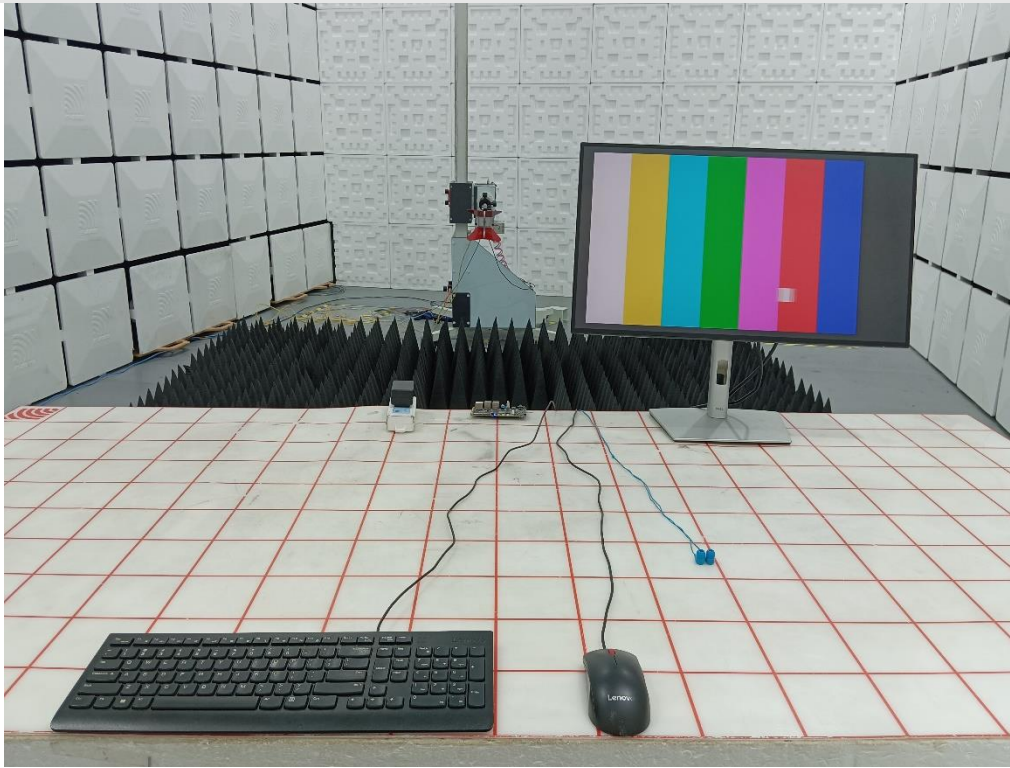
Conducted emissions



Radiated emissions below 1GHz



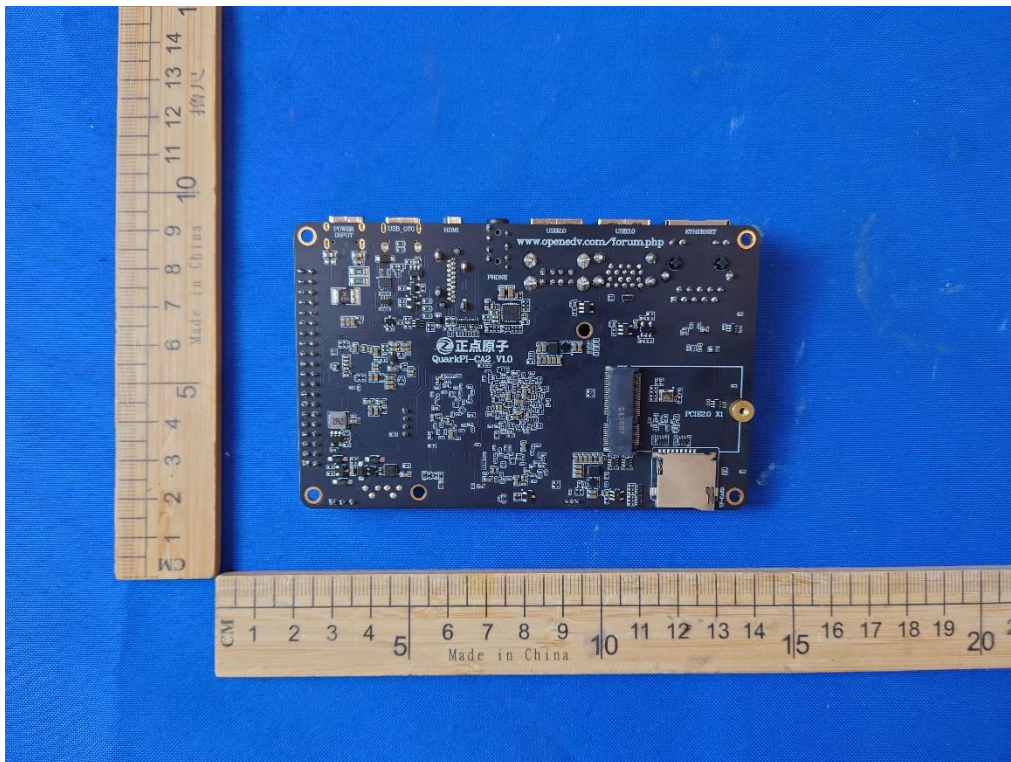
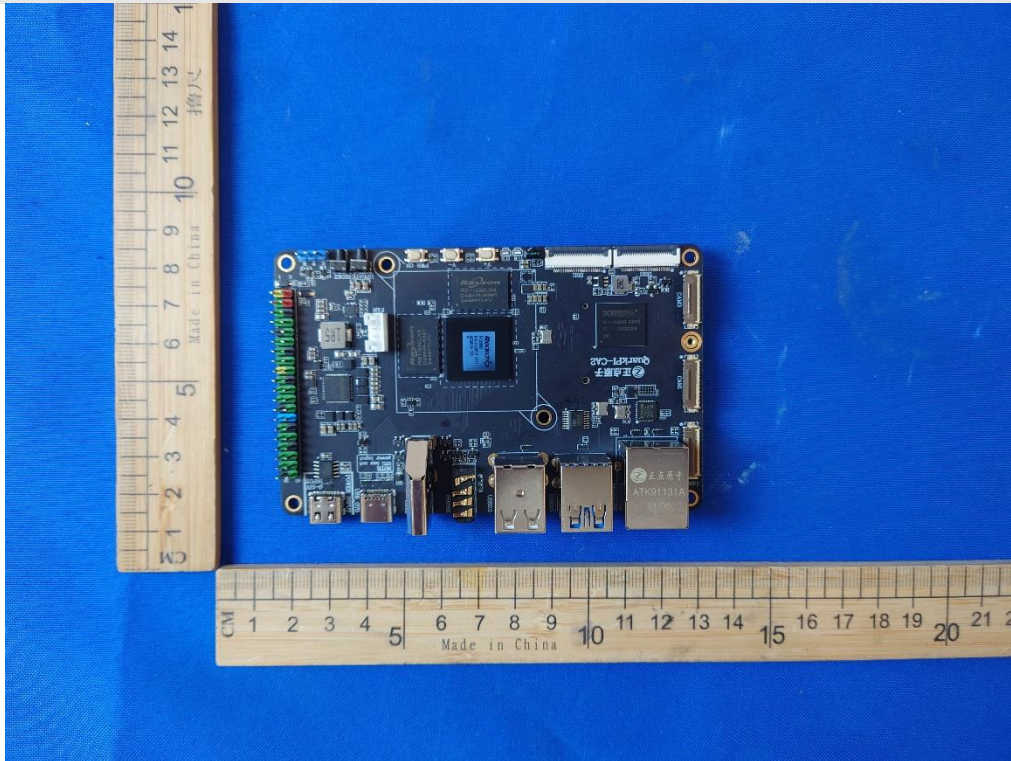
**Radiated emissions above 1GHz**



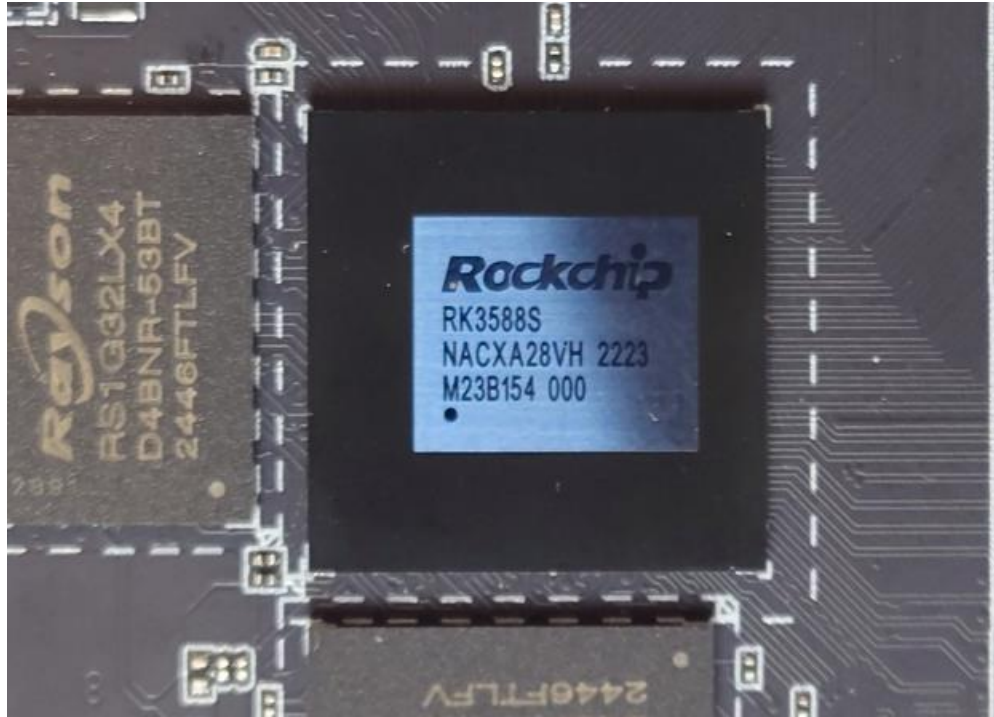


## APPENDIX: PHOTOGRAPHS OF THE EUT

External







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**END OF REPORT**