

FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7

TEST REPORT

For

Bluetooth Low Energy and 802.15.4 wireless radio module

MODEL NUMBER: HM-MT2401, HM-MT2401B

REPORT NUMBER: E04A24020079F00401

ISSUE DATE: May 9, 2024

Prepared for

Shenzhen HOPE Microelectronics Co., Ltd

**30th floor of 8th Building, C Zone Vanke Cloud City, Xili Sub-district, Nanshan,
Shenzhen, Guangdong, China**

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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Global Testing Technology Co., Ltd.**

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	May 9, 2024	Initial Issue	

Summary of Test Results

Emission			
Standard	Test Item	Limit	Result
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7	Radiated emissions below 1GHz	FCC Part 15.109, ICES-003 Issue 7 Section 3.2.2	Pass
	Radiated emissions above 1GHz	FCC Part 15.109, ICES-003 Issue 7 Section 3.2.2	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, ICES-003 Issue 7> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Shenzhen HOPE Microelectronics Co., Ltd
Address: 30th floor of 8th Building, C Zone Vanke Cloud City, Xili Sub-district, Nanshan, Shenzhen, Guangdong, China

Manufacturer Information

Company Name: Shenzhen HOPE Microelectronics Co., Ltd
Address: 30th floor of 8th Building, C Zone Vanke Cloud City, Xili Sub-district, Nanshan, Shenzhen, Guangdong, China

EUT Information

Product Description: Bluetooth Low Energy and 802.15.4 wireless radio module
Model: HM-MT2401
Series Model: HM-MT2401B
Brand: HOPERF
Sample Received Date: Mar. 01, 2024
Sample Status: Normal
Sample ID: A24020079 001
Date of Tested: Mar. 01, 2024 to May 9, 2024

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7	Pass

Prepared By:

Win Huang

Win Huang

Project Engineer

Checked By:

Alan He

Alan He

Laboratory Leader

Approved By:

Shawn Wen

Shawn Wen

Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1343) 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>ISED (Company No.: 30714) 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)
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.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Bluetooth Low Energy and 802.15.4 wireless radio module
Model		HM-MT2401
Series Model		HM-MT2401B
Model Difference		Note: HM-MT2401/19.5dBm, HM-MT2401B/10dBm.
Hardware Version		V1.0
Software Version		V1.0
Ratings		Input: DC 1.71V-3.8V
Power Supply	DC	3.3V

5.2. TEST MODE

Test Mode	Description
M01	Bluetooth Working: Connect to the PC
M02	802.15.4 Working: Connect to the PC

5.3. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	PC	Lenovo	T430	N/A	GTG Support
E-2	Serial Port Tool	N/A	USB TO TTL	N/A	GTG Support

The following cables were used to form a representative test configuration during the tests.

Item	Type of cable	Shielded Type	Ferrite Core	Length
C-1	Dupont cable	Unshielded	without ferrite	0.2 m

6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Radiated emissions below 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Chamber	ETS	9*6*6	Q2146	2022/8/30	2025/8/29
Receiver	R&S	ESCI3	101409	2023/9/18	2024/9/17
Loop Antenna	ETS	6502	243668	2022/3/30	2025/3/30
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2023/9/18	2024/9/17
Biconilog Antenna	Schwarzbeck	VULB 9168	1315	2022/10/10	2025/10/9
Biconilog Antenna	ETS	3142E	243646	2022/3/23	2025/3/22
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	2023/9/18	2024/9/17
Pre-Amplifier	HzEMC	HPA-1G1850	HYP A21003	2023/9/18	2024/9/17
Horn antenna	ETS	3117	246069	2022/3/11	2025/3/10
Pre-Amplifier	ETS	HPA-184057	HYP A21004	2023/9/18	2024/9/17
Horn antenna	ETS	3116C	246265	2022/3/29	2025/3/28
Test Software for RE	Farad	EZ-EMC	V1.1.4.2	N/A	N/A

7. EMISSION TEST

7.1. 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

ICES-003 Issue 7		
Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3 m)	Field strength (dBuV/m) (at 3 m)
30 - 88	50	40
88 - 216	54	43.5
216 - 230	56.9	46
230 - 960	57	47
Above 960	60	54

Note: The different between FCC Part 15 Subpart B limit and ICES-003 Issue 7 limit is only in frequency band 230 MHz to 960 MHz, the limit of FCC Part 15 Subpart B is 1 dB smaller than the limit of ICES-003 Issue 7, if the test result complies with FCC Part 15 Subpart B limit, it deemed to comply with ICES-003 Issue 7 limit.

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 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to CFR 47 FCC Part15 Subpart B /ICES-003 Issue 7;
- (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

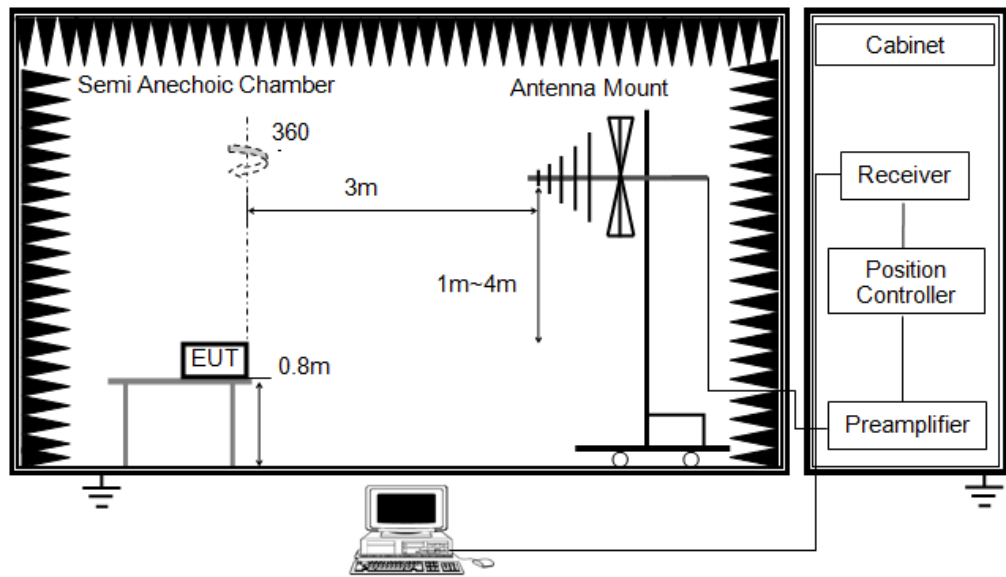
Below 1 GHz and above 30 MHz

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

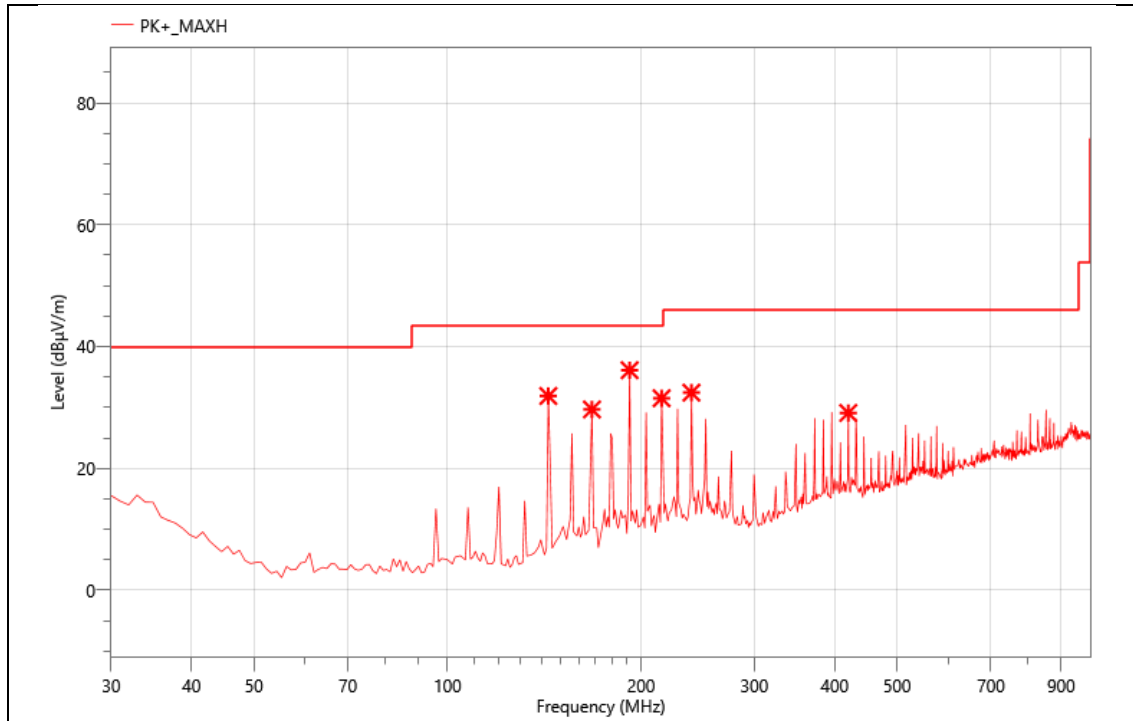
Temperature	24.3℃	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST MODE

Pre-test Mode:	M01 ~ M02
Final Test Mode:	M01, M02

TEST RESULTS

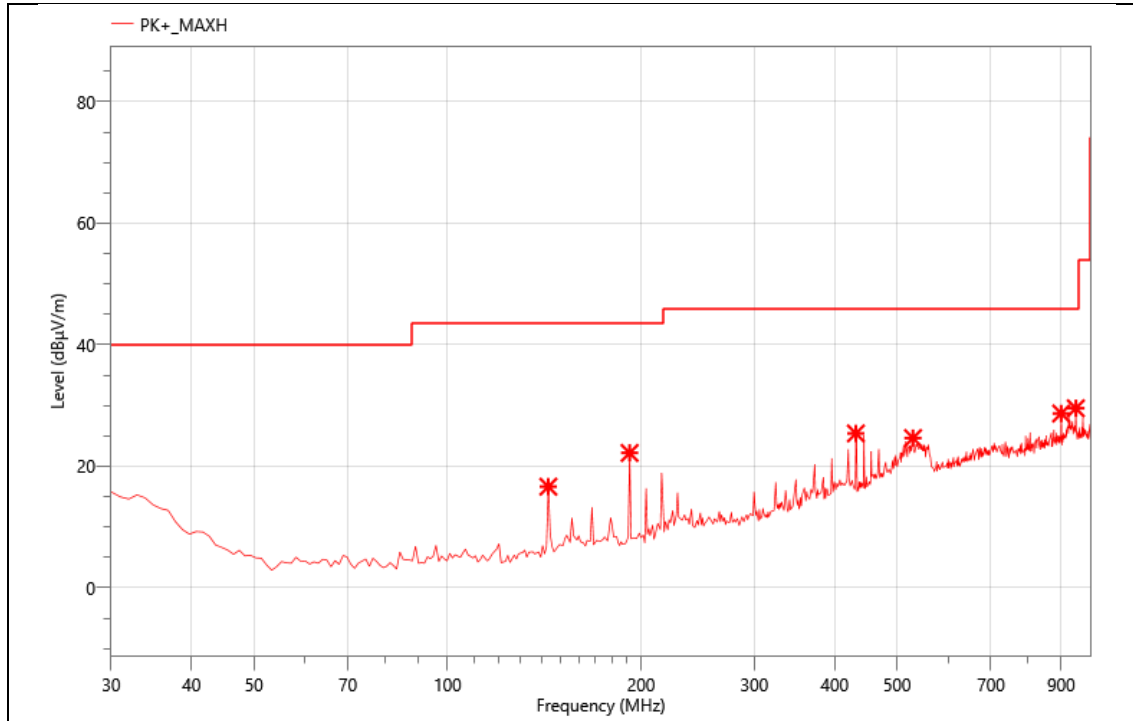
Mode:	BLE 2402MHz
Power:	DC 3.3V
TE:	Berny
Date	2024/3/15
T/A/P	24.3°C/54%/101Kpa

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	143.490	55.42	-23.52	31.90	43.50	11.60	PK+	H
2	167.740	52.39	-22.7	29.69	43.50	13.81	PK+	H
3	191.990	58.70	-22.57	36.13	43.50	7.37	PK+	H
4	215.270	52.53	-21	31.53	43.50	11.97	PK+	H
5	239.520	52.11	-19.66	32.45	46.00	13.55	PK+	H
6	419.940	43.00	-13.89	29.11	46.00	16.89	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	BLE 2402MHz
Power:	DC 3.3V
TE:	Berny
Date	2024/3/15
T/A/P	24.3°C/54%/101Kpa

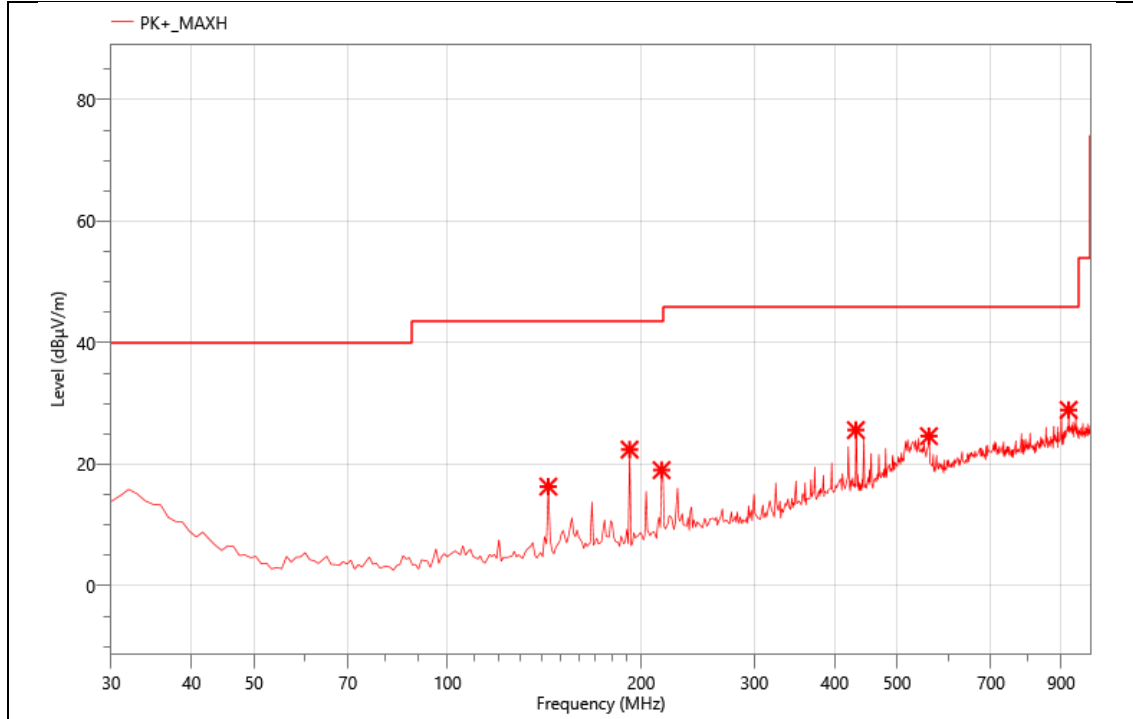


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	143.490	40.16	-23.52	16.64	43.50	26.86	PK+	V
2	191.990	44.77	-22.57	22.20	43.50	21.30	PK+	V
3	431.580	39.57	-14.16	25.41	46.00	20.59	PK+	V
4	529.550	35.44	-10.79	24.65	46.00	21.35	PK+	V
5	900.090	33.79	-5.1	28.69	46.00	17.31	PK+	V
6	948.590	32.97	-3.42	29.55	46.00	16.45	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	802.15.4 2405MHz
Power:	DC 3.3V
TE:	Berny
Date	2024/3/15
T/A/P	24.3°C/54%/101Kpa

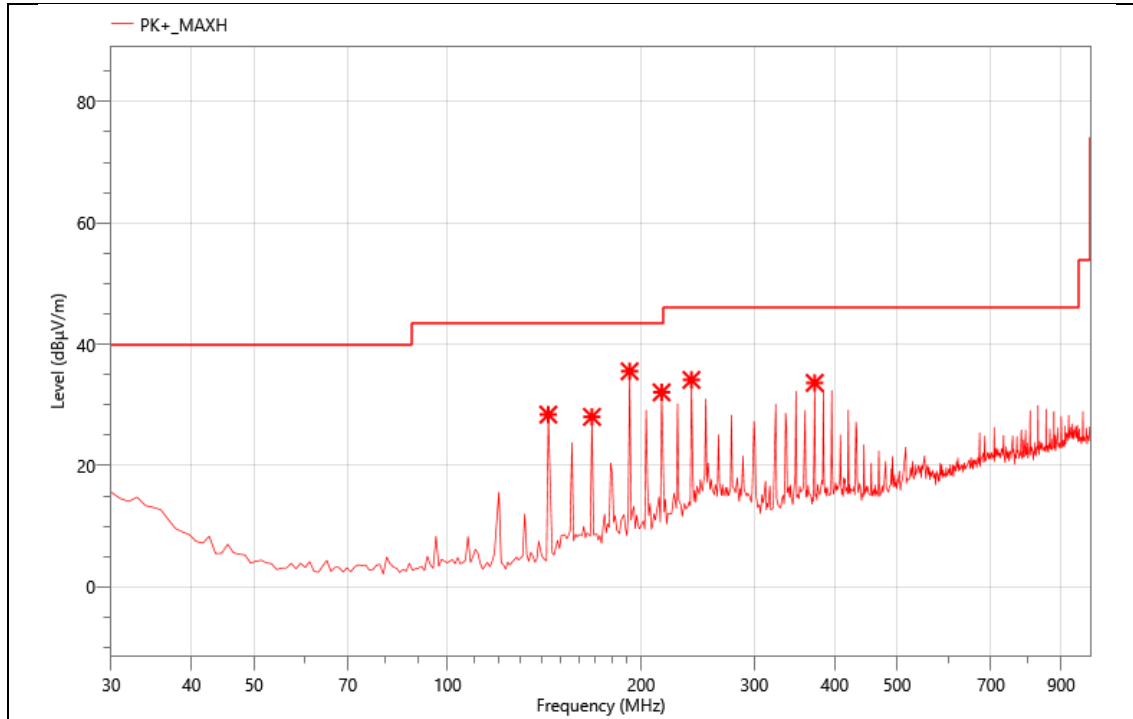


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	143.490	39.85	-23.52	16.33	43.50	27.17	PK+	V
2	191.990	44.99	-22.57	22.42	43.50	21.08	PK+	V
3	215.270	40.04	-21	19.04	43.50	24.46	PK+	V
4	431.580	39.79	-14.16	25.63	46.00	20.37	PK+	V
5	560.590	34.99	-10.36	24.63	46.00	21.37	PK+	V
6	924.340	32.21	-3.27	28.94	46.00	17.06	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	802.15.4 2405MHz
Power:	DC 3.3V
TE:	Berny
Date	2024/3/15
T/A/P	24.3°C/54%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	143.490	51.93	-23.52	28.41	43.50	15.09	PK+	H
2	167.740	50.73	-22.7	28.03	43.50	15.47	PK+	H
3	191.990	58.11	-22.57	35.54	43.50	7.96	PK+	H
4	215.270	53.07	-21	32.07	43.50	11.43	PK+	H
5	239.520	53.78	-19.66	34.12	46.00	11.88	PK+	H
6	372.410	48.89	-15.26	33.63	46.00	12.37	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

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

2. Margin = Result - Limit

7.2. RADIATED EMISSIONS ABOVE 1GHZ

LIMITS

Above 1 GHz

CFR 47 FCC Part15 Subpart B /ICES-003 Issue 7				
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 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to CFR 47 FCC Part15 Subpart B /ICES-003 Issue 7;
- (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

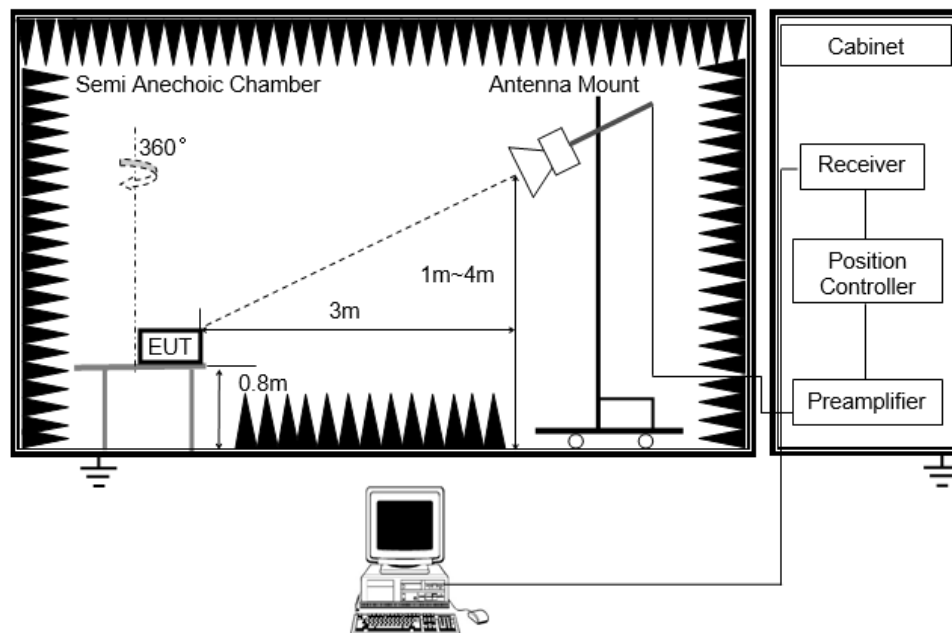
The setting of the spectrum analyser

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

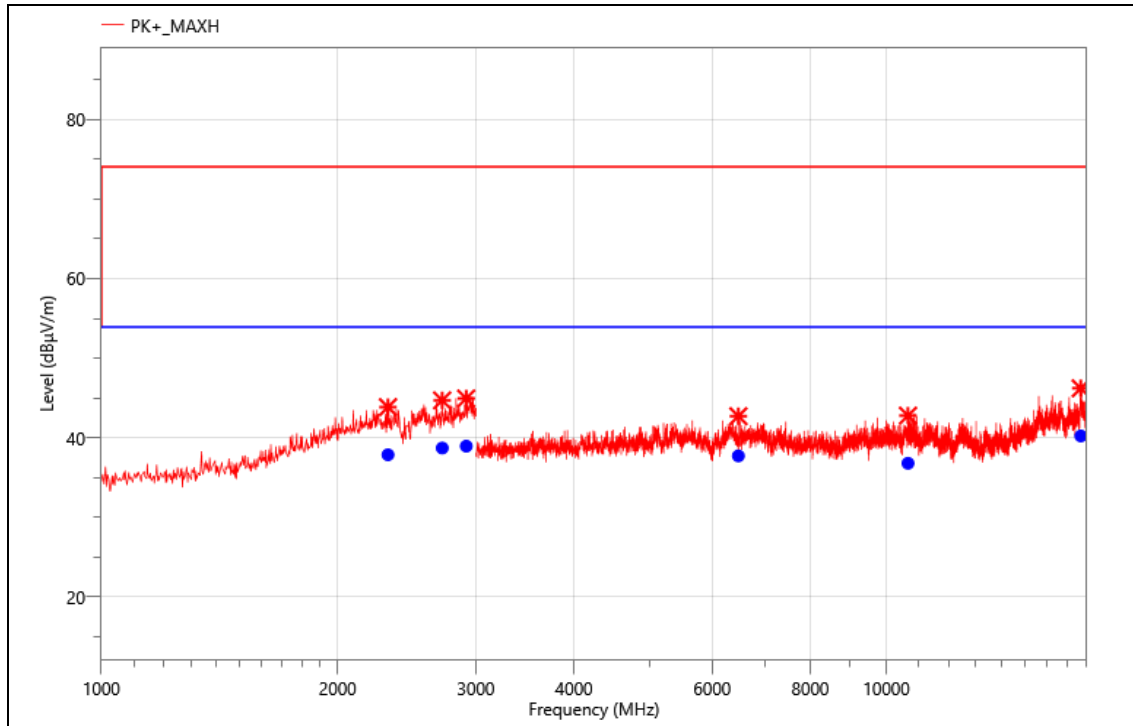
Temperature	24.3°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST MODE

Pre-test Mode:	M01 ~ M02
Final Test Mode:	M01, M02

TEST RESULTS

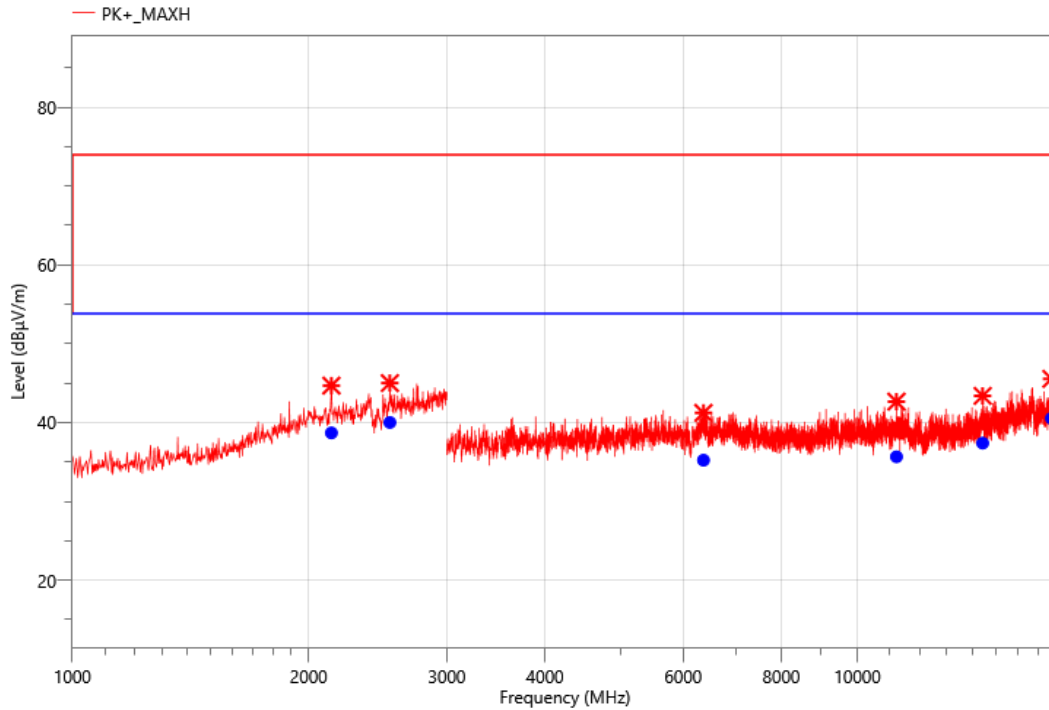
Mode:	M01
Power:	DC 3.3V
TE:	Berny
Date	2024/3/15
T/A/P	24.3°C/54%/101Kpa

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2318.000	52.64	-8.8	43.84	74.00	30.16	PK+	H
2	2718.000	53.17	-8.48	44.69	74.00	29.31	PK+	H
3	2916.000	52.57	-7.64	44.93	74.00	29.07	PK+	H
4	6478.500	51.26	-8.56	42.70	74.00	31.30	PK+	H
5	10654.500	48.07	-5.3	42.77	74.00	31.23	PK+	H
6	17686.500	45.96	0.25	46.21	74.00	27.79	PK+	H
7	2318.000	46.64	-8.8	37.84	53.90	16.06	AVG	H
8	2718.000	47.17	-8.48	38.69	53.90	15.21	AVG	H
9	2916.000	46.57	-7.64	38.93	53.90	14.97	AVG	H
10	6478.500	46.26	-8.56	37.70	53.90	16.20	AVG	H
11	10654.500	42.07	-5.3	36.77	53.90	17.13	AVG	H
12	17686.500	39.96	0.25	40.21	53.90	13.69	AVG	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	M01
Power:	DC 3.3V
TE:	Berny
Date	2024/3/15
T/A/P	24.3°C/54%/101Kpa

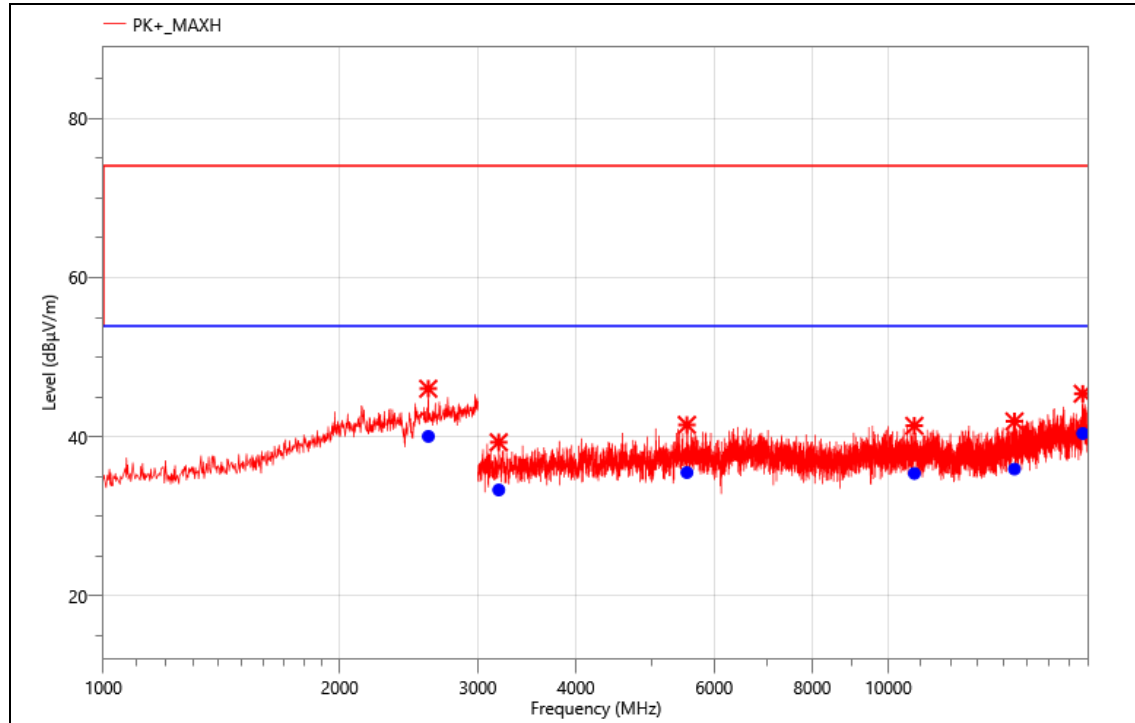


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2138.000	53.74	-9.05	44.69	74.00	29.31	PK+	V
2	2538.000	53.47	-8.46	45.01	74.00	28.99	PK+	V
3	6367.500	49.13	-7.9	41.23	74.00	32.77	PK+	V
4	11215.500	46.80	-4.14	42.66	74.00	31.34	PK+	V
5	14440.500	46.70	-3.31	43.39	74.00	30.61	PK+	V
6	17673.000	45.24	0.3	45.54	74.00	28.46	PK+	V
7	2138.000	47.74	-9.05	38.69	53.90	15.21	AVG	V
8	2538.000	48.47	-8.46	40.01	53.90	13.89	AVG	V
9	6367.500	43.13	-7.9	35.23	53.90	18.67	AVG	V
10	11215.500	39.80	-4.14	35.66	53.90	18.24	AVG	V
11	14440.500	40.70	-3.31	37.39	53.90	16.51	AVG	V
12	17673.000	40.24	0.3	40.54	53.90	13.36	AVG	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	M02
Power:	DC 3.3V
TE:	Berny
Date	2024/3/15
T/A/P	24.3°C/54%/101Kpa

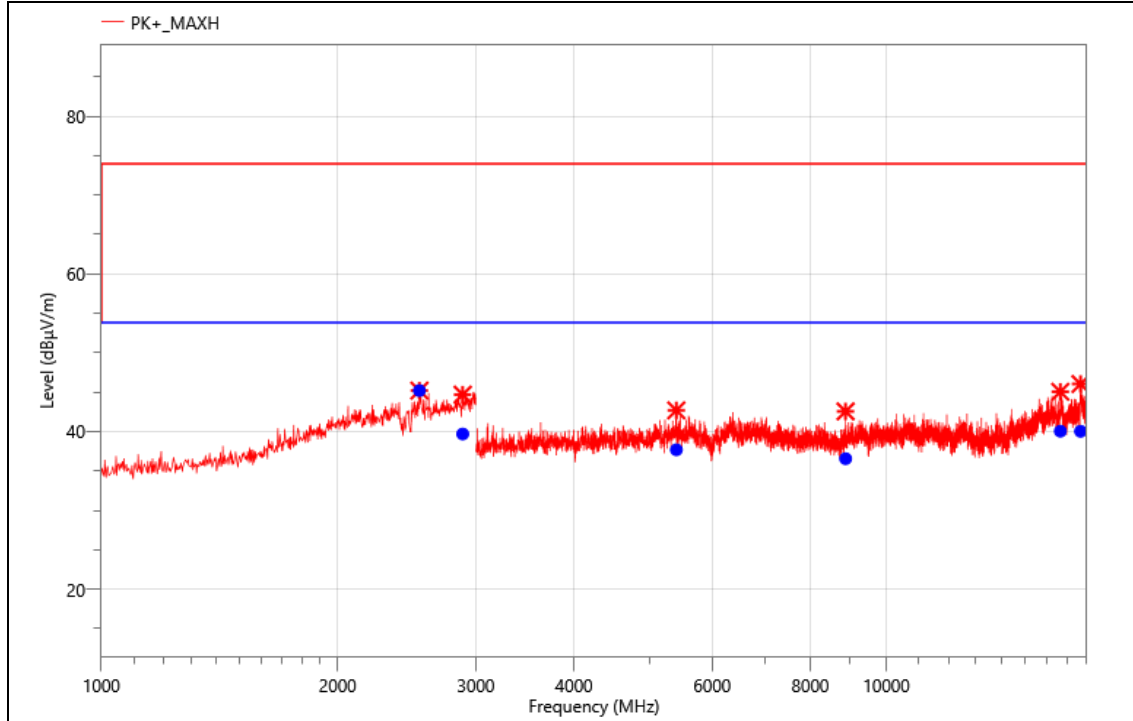


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2594.000	54.15	-8.12	46.03	74.00	27.97	PK+	V
2	3189.000	54.11	-14.82	39.29	74.00	34.71	PK+	V
3	5538.000	51.01	-9.53	41.48	74.00	32.52	PK+	V
4	10792.500	46.32	-4.95	41.37	74.00	32.63	PK+	V
5	14475.000	45.09	-3.17	41.92	74.00	32.08	PK+	V
6	17685.000	45.14	0.26	45.40	74.00	28.60	PK+	V
7	2594.000	48.15	-8.12	40.03	53.90	13.87	AVG	V
8	3189.000	48.11	-14.82	33.29	53.90	20.61	AVG	V
9	5538.000	45.01	-9.53	35.48	53.90	18.42	AVG	V
10	10792.500	40.32	-4.95	35.37	53.90	18.53	AVG	V
11	14475.000	39.09	-3.17	35.92	53.90	17.98	AVG	V
12	17685.000	40.14	0.26	40.40	53.90	13.50	AVG	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	M02
Power:	DC 3.3V
TE:	Berny
Date	2024/3/15
T/A/P	24.3°C/54%/101Kpa



Critical_Freqs

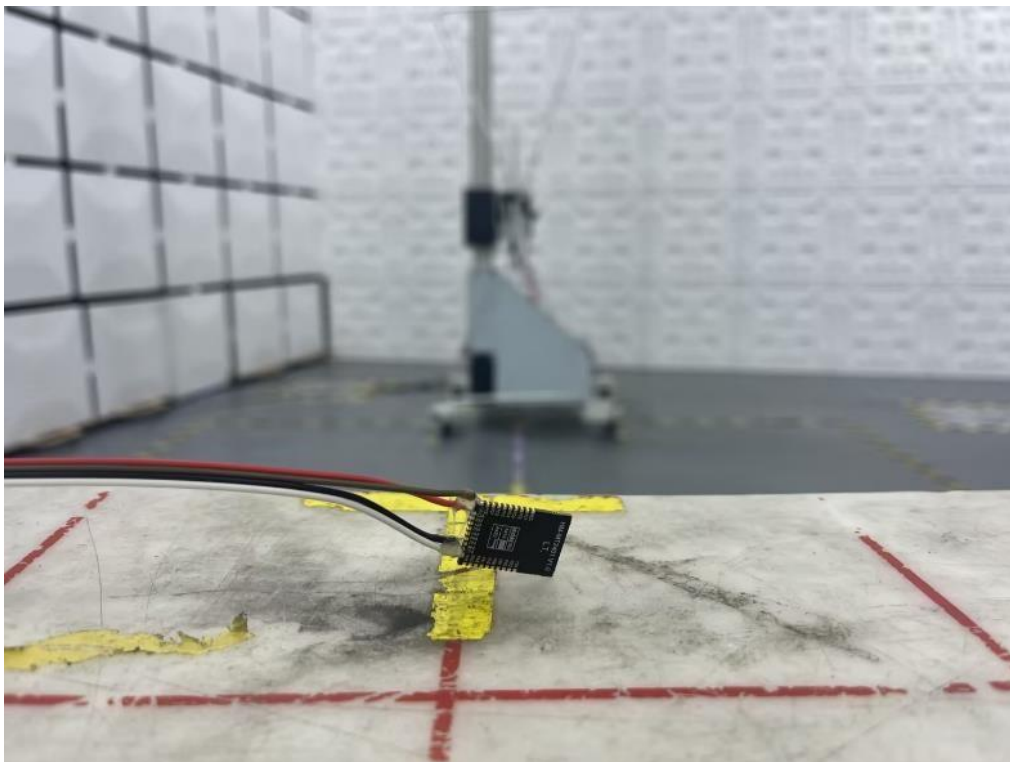
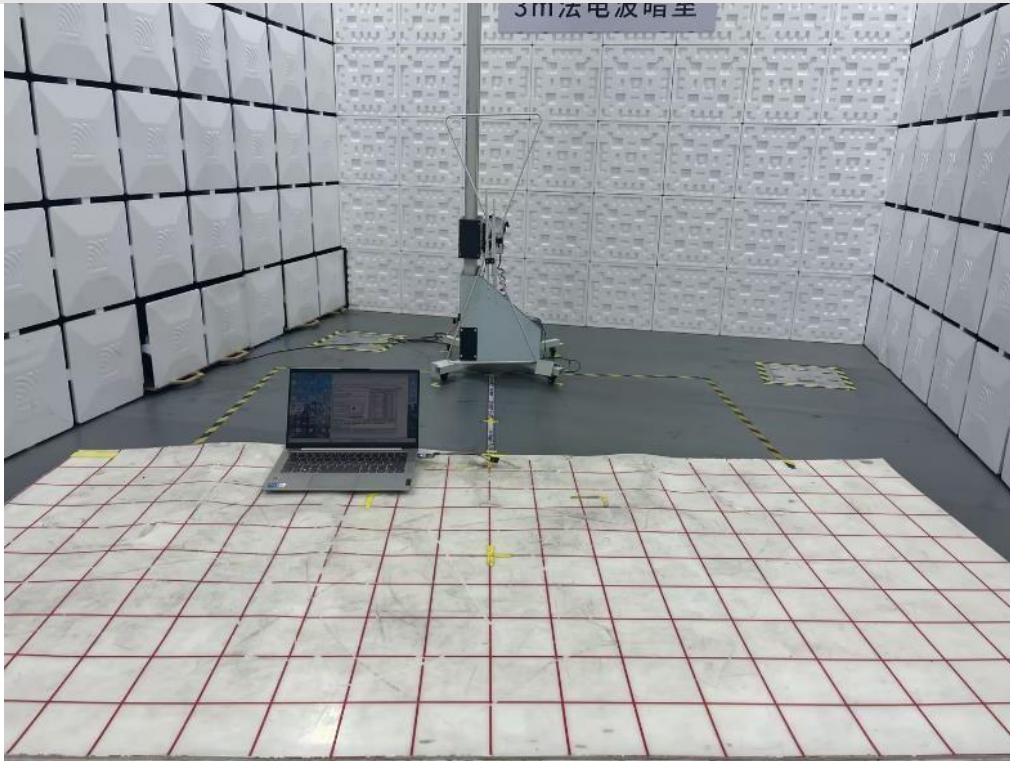
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2542.000	53.57	-8.37	45.20	74.00	28.80	PK+	H
2	2886.000	52.88	-8.19	44.69	74.00	29.31	PK+	H
3	5401.500	52.13	-9.44	42.69	74.00	31.31	PK+	H
4	8872.500	50.35	-7.79	42.56	74.00	31.44	PK+	H
5	16657.500	45.76	-0.71	45.05	74.00	28.95	PK+	H
6	17674.500	45.71	0.32	46.03	74.00	27.97	PK+	H
7	2542.000	53.57	-8.37	45.20	53.90	8.70	AVG	H
8	2886.000	47.88	-8.19	39.69	53.90	14.21	AVG	H
9	5401.500	47.13	-9.44	37.69	53.90	16.21	AVG	H
10	8872.500	44.35	-7.79	36.56	53.90	17.34	AVG	H
11	16657.500	40.76	-0.71	40.05	53.90	13.85	AVG	H
12	17674.500	39.71	0.32	40.03	53.90	13.87	AVG	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

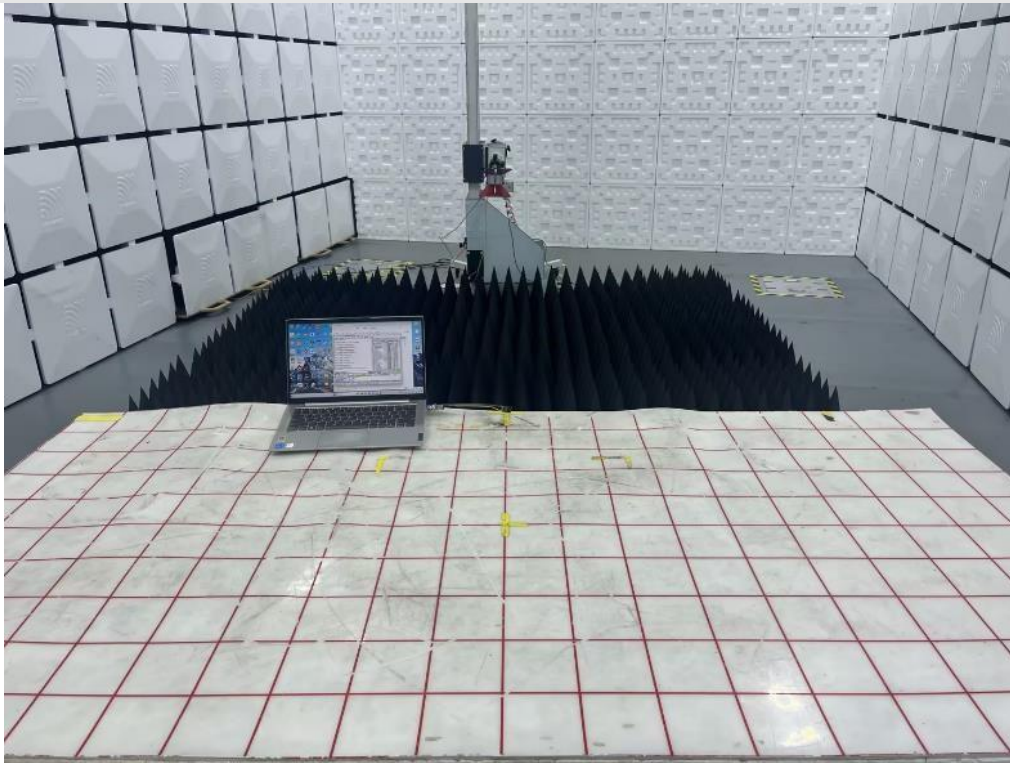
Note: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)
2. Margin = Result - Limit

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

Radiated emissions below 1GHz

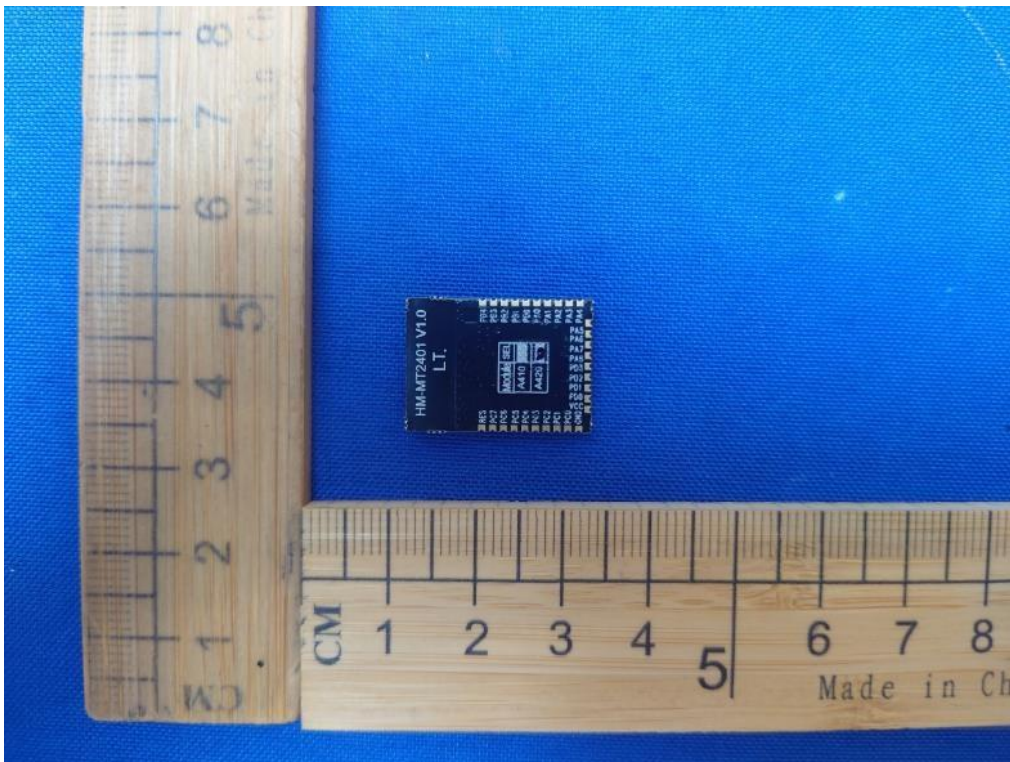
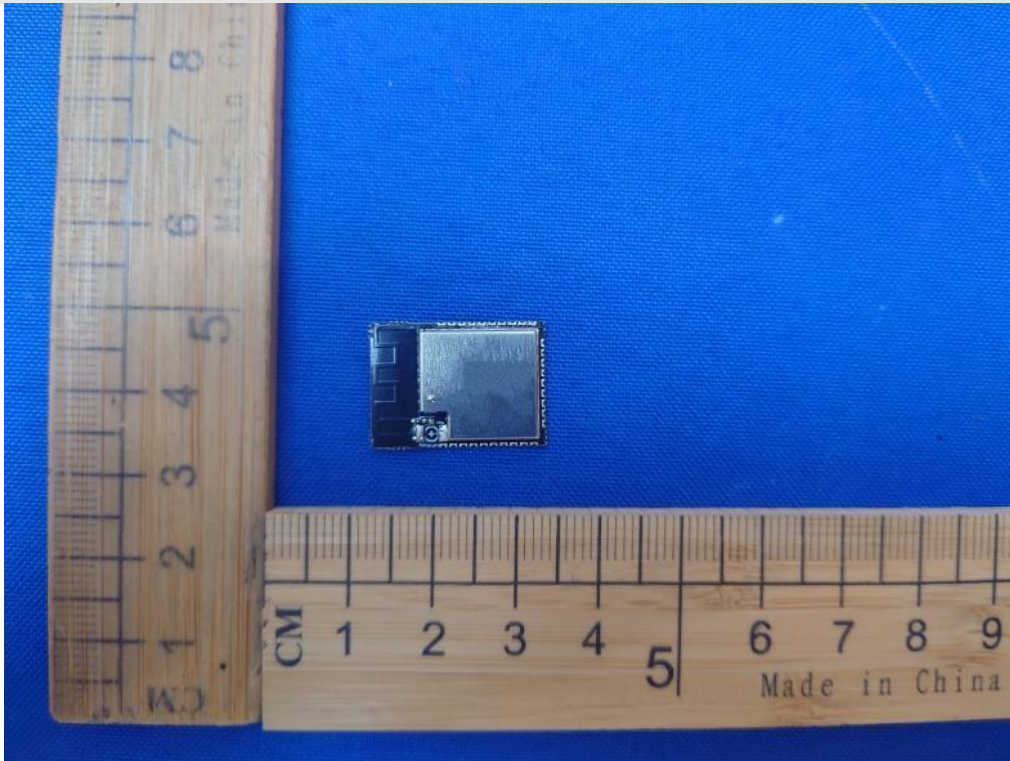


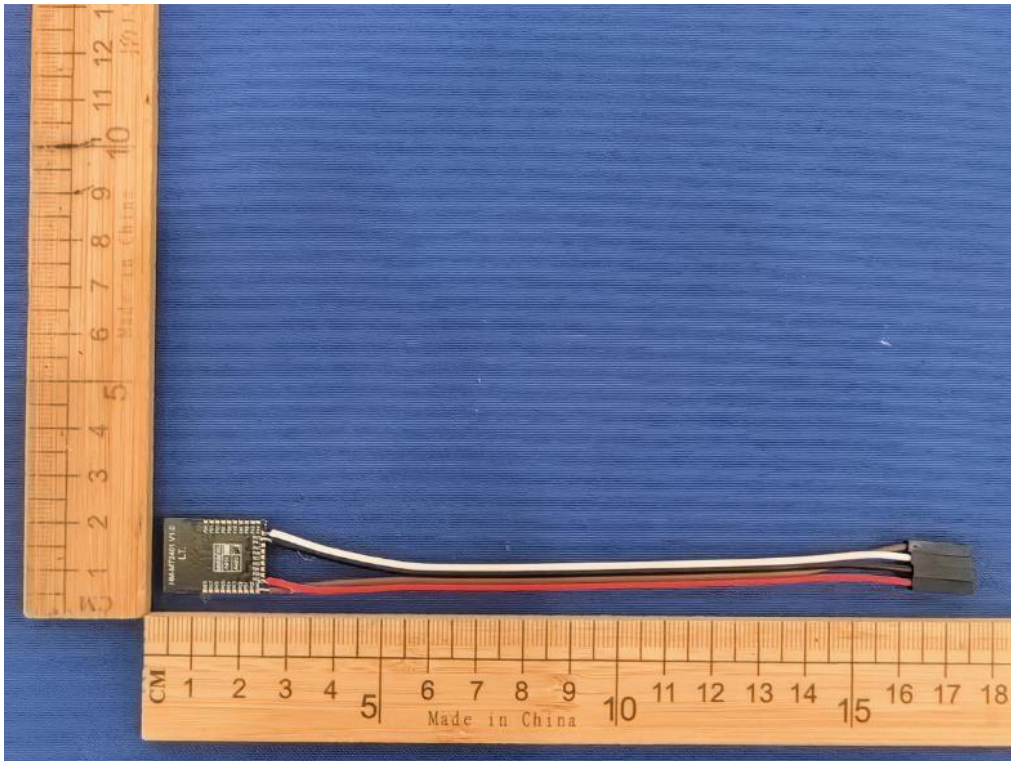
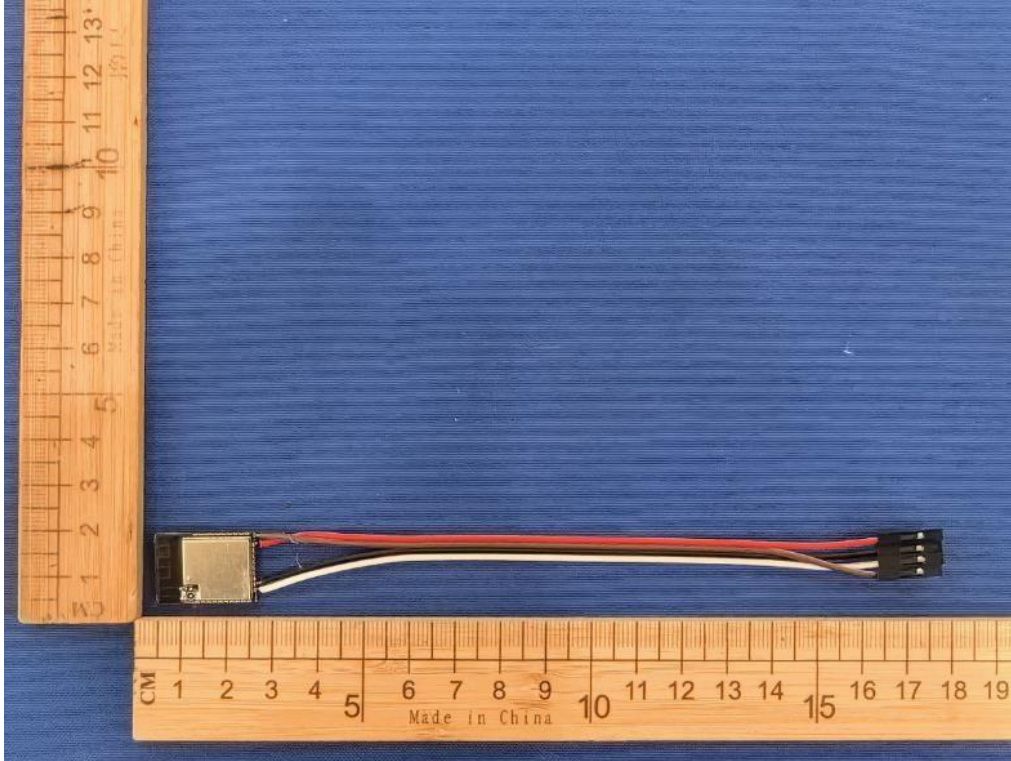
Radiated emissions above 1GHz

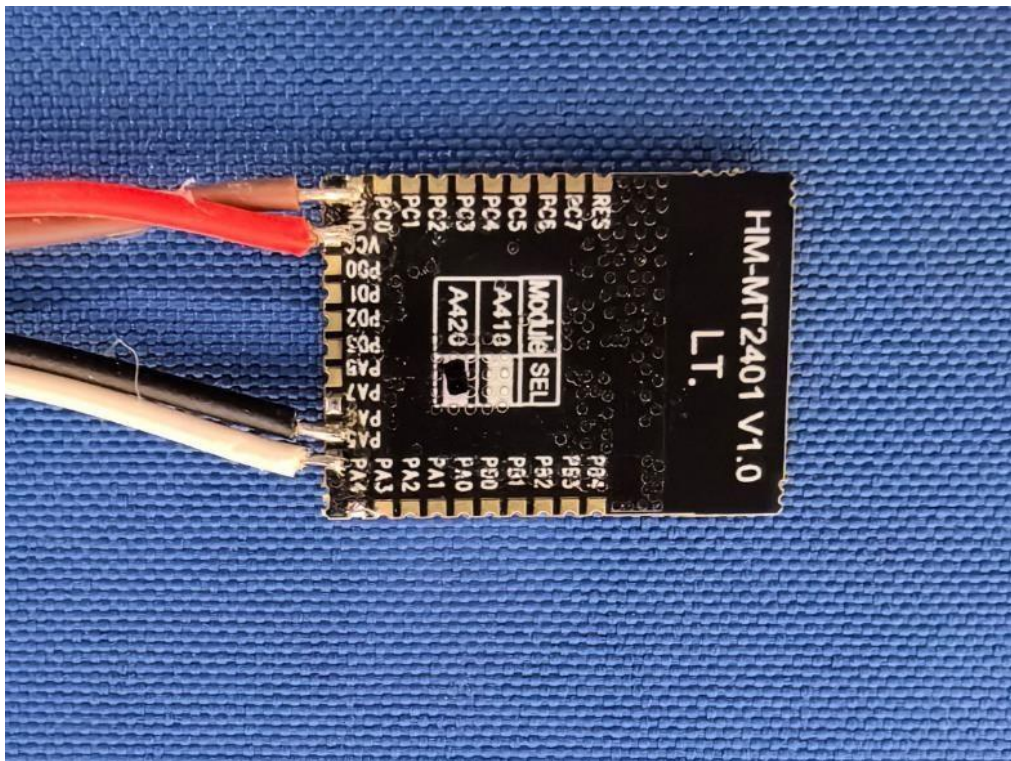
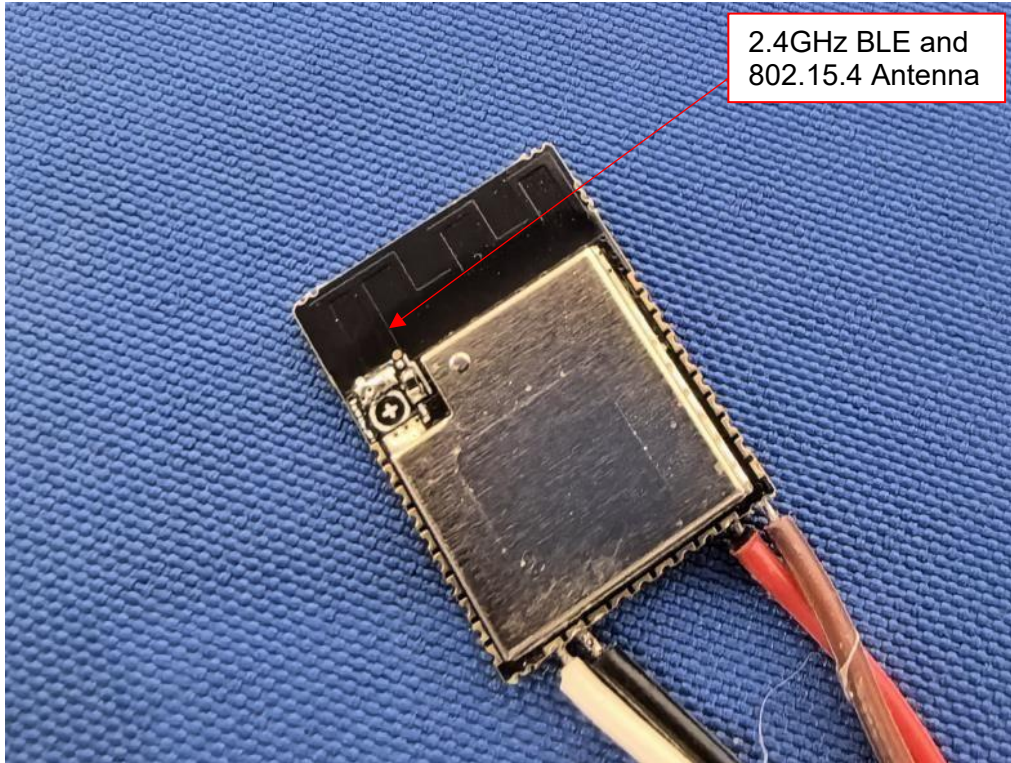


APPENDIX: PHOTOGRAPHS OF THE EUT

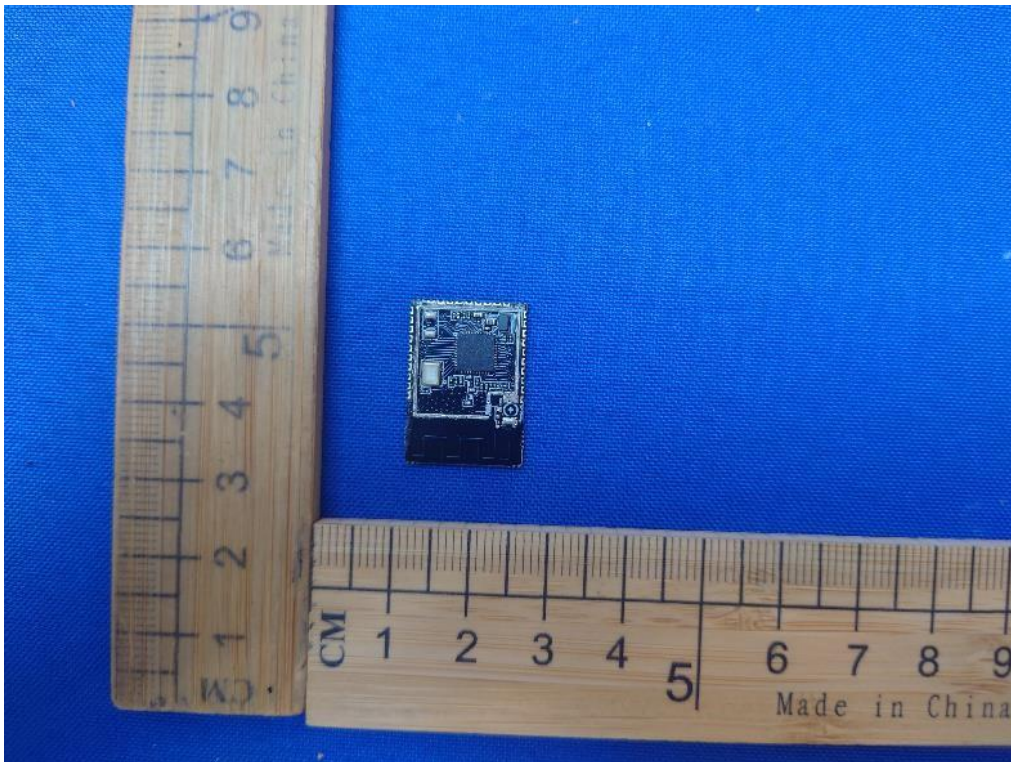
External

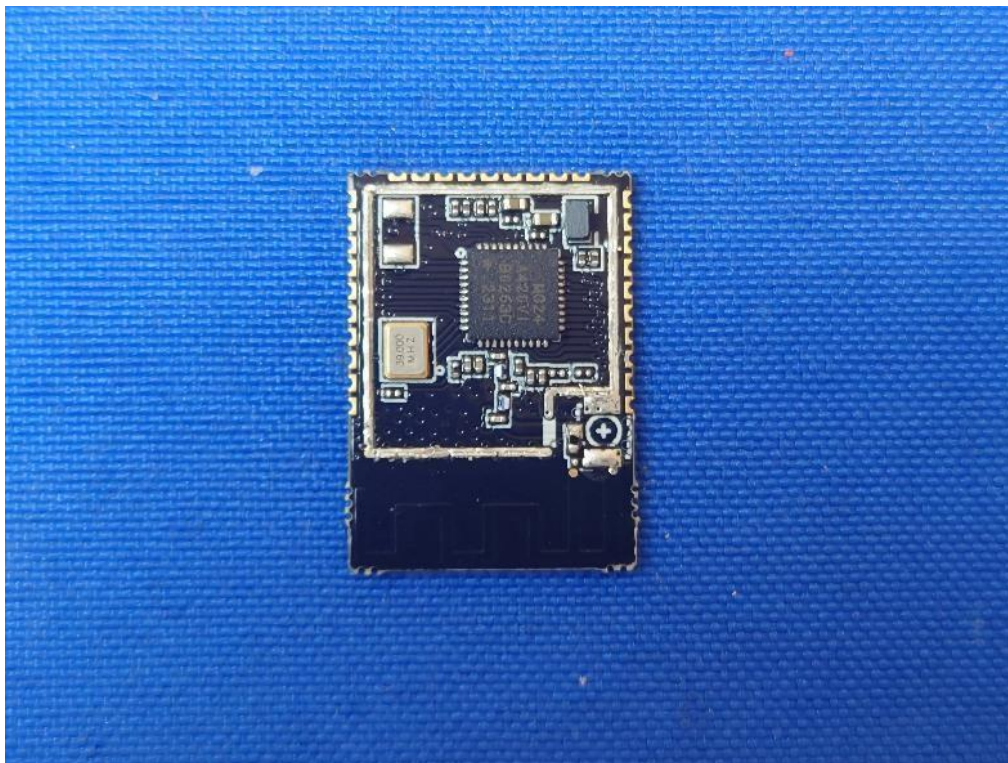






Internal





END OF REPORT