



Report No.: TW2506002E

Applicant: SHENZHENSHI KEDESEN DIANZI KEJI YouXianGongSi

Product: Battery Monitor

Model No.: BM7

Trademark: KDator

Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Terry Tang

Manager

Dated: June 24, 2025

Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,
Tong Le Village, Nanshan District, Shenzhen, China**

Tel (755) 83448688, Fax (755) 83442996, E-Mail: info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site on File with the Federal Communications Commission – United States
Registration Number: 744189
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: SHENZHENSHI KEDESEN DIANZI KEJI YouXianGongSi
Address: Room 606, Unit 1, No. 8 Century Spring City, Minxing Road, MinZhi, LongHua, Shenzhen

1.3 Description of EUT

Product: Battery Monitor
Manufacturer: SHENZHENSHI KEDESEN DIANZI KEJI YouXianGongSi
Address: Room 606, Unit 1, No. 8 Century Spring City, Minxing Road, MinZhi, LongHua, Shenzhen
Trademark: KDator
Additional Trademark: N/A
Model Number: BM7
Additional Model Name: N/A
Hardware Version: BM7-V1.0
Software Version: Smart Battery 24V V1.3.12
Serial No.: BM720250215001B
Rating: DC3-35V, 1mA
Modulation Type: GFSK
Operation Frequency: 2402-2480MHz (Bluetooth Low Energy)
Number of Channels: 40
Channel Separation: 2MHz
Antenna Designation: PCB antenna with gain 2.0dBi Max (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

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1.5 Test Duration

2025-06-02 to 2025-06-24

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Andy-xing

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m	--	2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	N/A
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

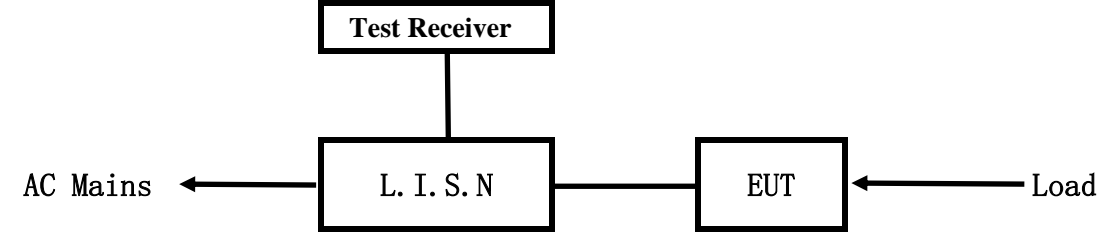
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test



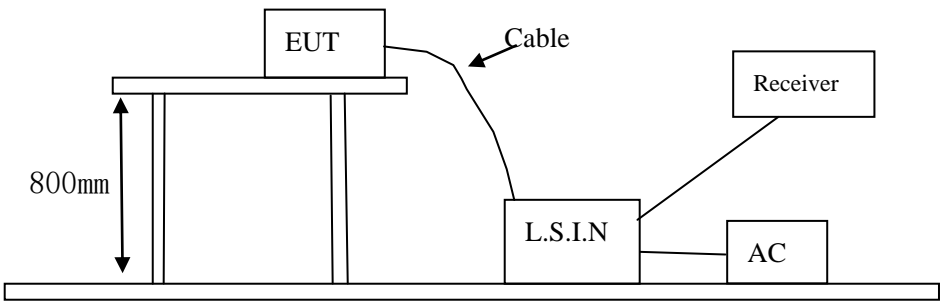
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: N/A

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

40 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Battery Monitor	SHENZHENSHI KEDESEN DIANZI KEJI YouXianGongSi	BM7	2BQG4-KDSBM7

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (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

- Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

N/A

Note: EUT not directly or in-directly connected to the AC power source, this test item not applicable.

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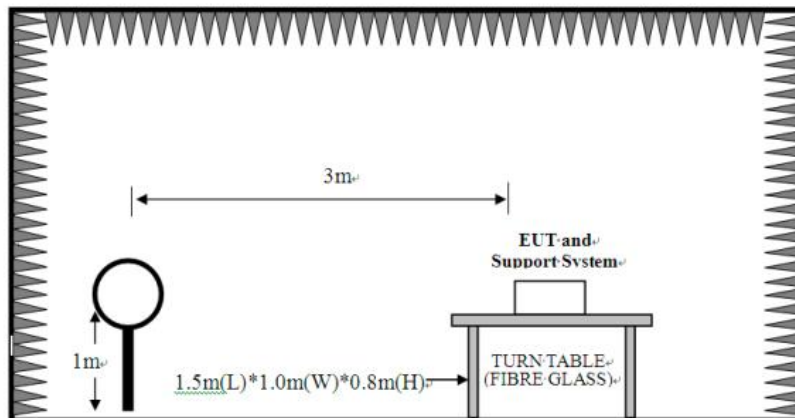
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



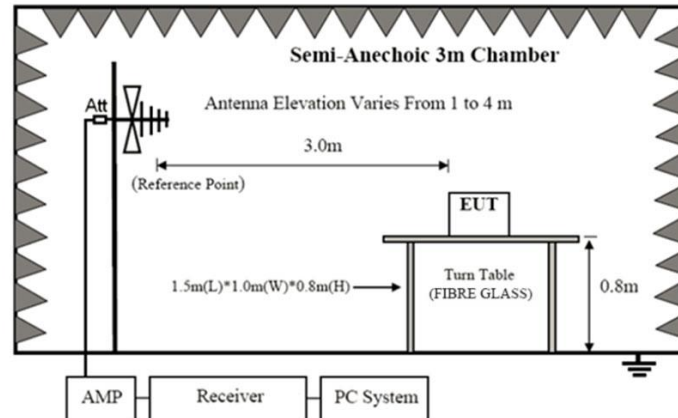
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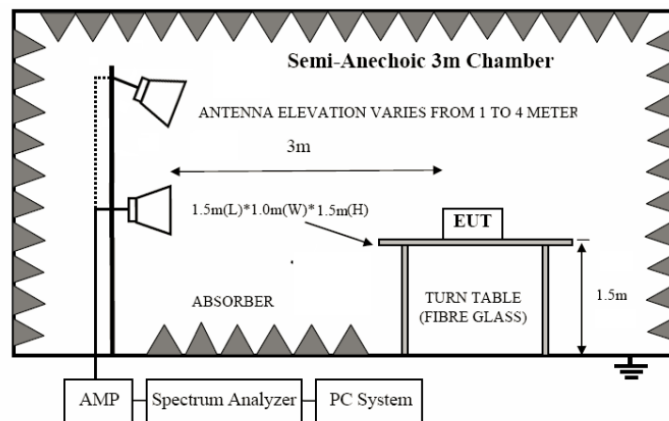
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT
Same as section 5.3 of this report

6.3 EUT Operating Condition
Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)	
	mV/m	dBuV/m	uV/m	dBuV/m
2400-2483.5	50	94 (Average) 114 (Peak)	500	54 (Average) 74 (Peak)

- Note:
1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
 5. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.

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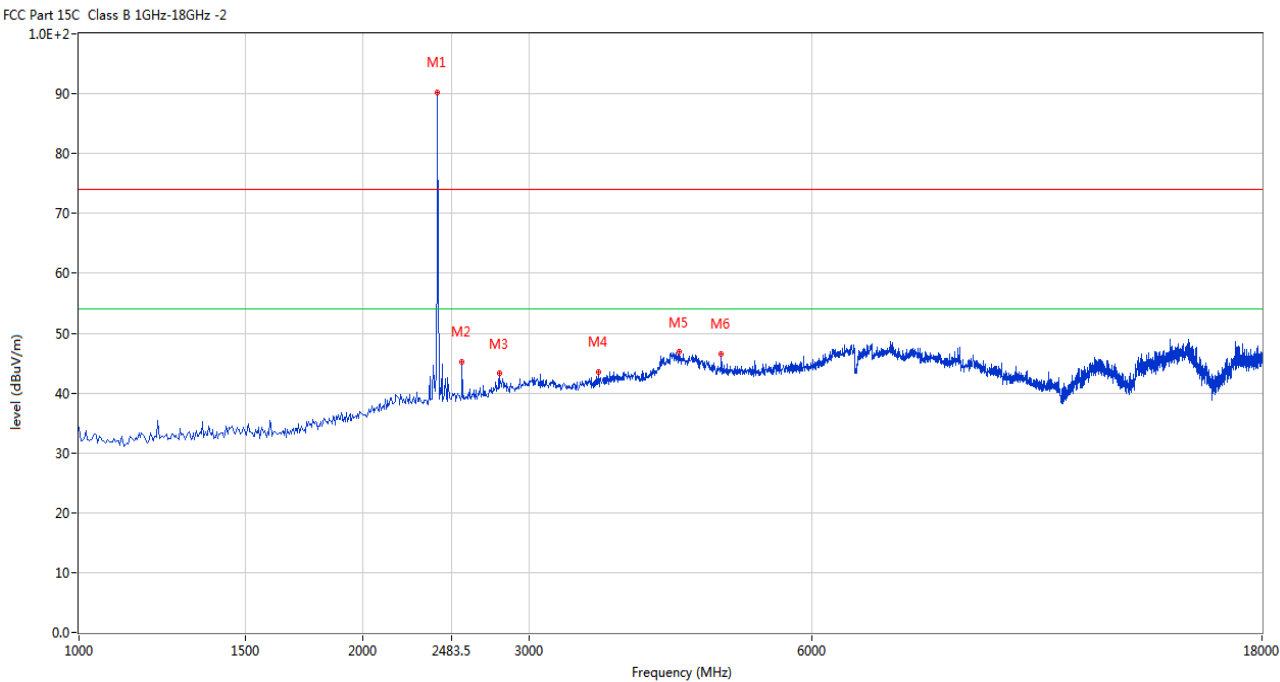
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6.5 Test result
A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	90.22	-3.57	114.0	-23.78	Peak	156.00	100	Horizontal	Pass
2	2550.862	45.21	-3.45	74.0	-28.79	Peak	71.00	100	Horizontal	Pass
3	2793.052	43.23	-2.71	74.0	-30.77	Peak	244.00	100	Horizontal	Pass
4	3557.861	43.52	-0.80	74.0	-30.48	Peak	156.00	100	Horizontal	Pass
5	4335.416	46.83	1.90	74.0	-27.17	Peak	304.00	100	Horizontal	Pass
6	4802.799	46.57	3.12	74.0	-27.43	Peak	139.00	100	Horizontal	Pass

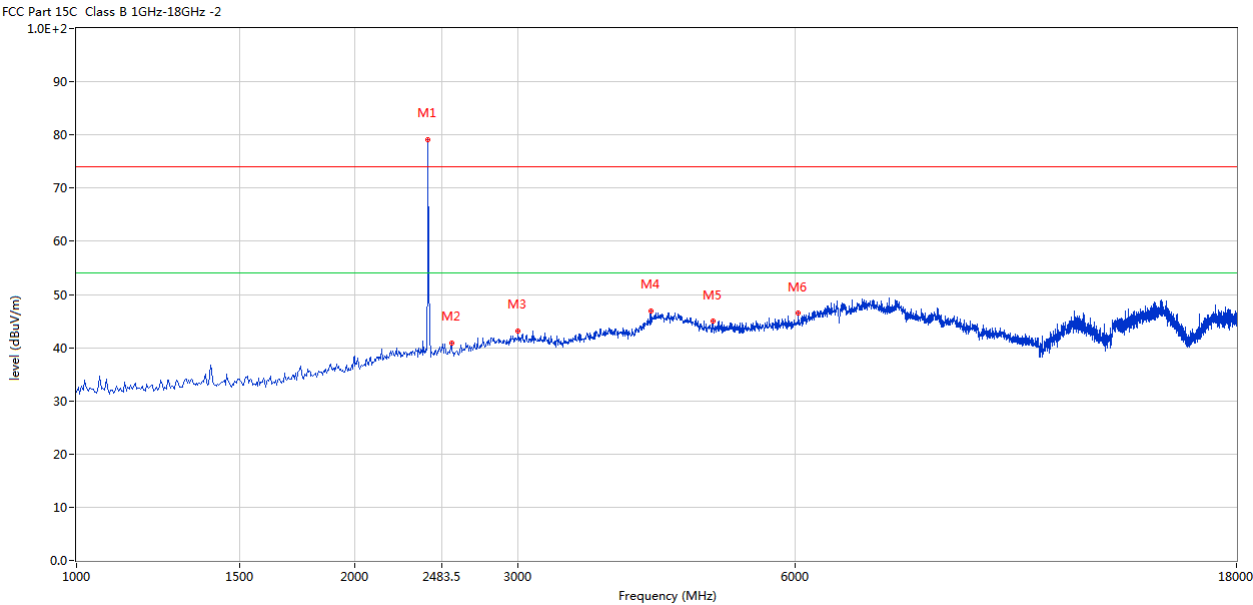
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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	79.15	-3.57	114.0	-34.85	Peak	129.00	100	Vertical	Pass
2	2546.613	40.79	-3.46	74.0	-33.21	Peak	0.00	100	Vertical	Pass
3	3005.499	43.12	-2.62	74.0	-30.88	Peak	306.00	100	Vertical	Pass
4	4186.703	46.98	1.57	74.0	-27.02	Peak	270.00	100	Vertical	Pass
5	4883.529	45.03	3.20	74.0	-28.97	Peak	296.00	100	Vertical	Pass
6	6039.240	46.45	3.93	74.0	-27.55	Peak	328.00	100	Vertical	Pass

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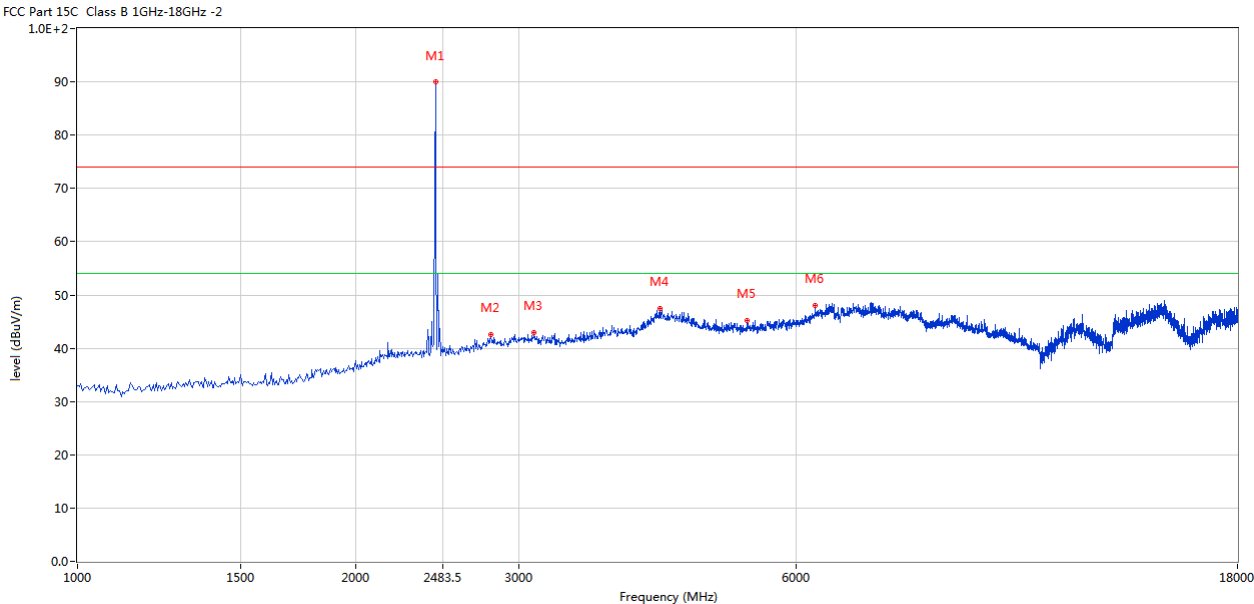
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Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	90.10	-3.57	114.0	-23.90	Peak	52.00	100	Horizontal	Pass
2	2801.550	42.65	-2.70	74.0	-31.35	Peak	21.00	100	Horizontal	Pass
3	3120.220	42.87	-2.15	74.0	-31.13	Peak	0.00	100	Horizontal	Pass
4	4267.433	47.47	1.76	74.0	-26.53	Peak	136.00	100	Horizontal	Pass
5	5308.423	45.14	3.50	74.0	-28.86	Peak	167.00	100	Horizontal	Pass
6	6281.430	47.97	4.89	74.0	-26.03	Peak	346.00	100	Horizontal	Pass

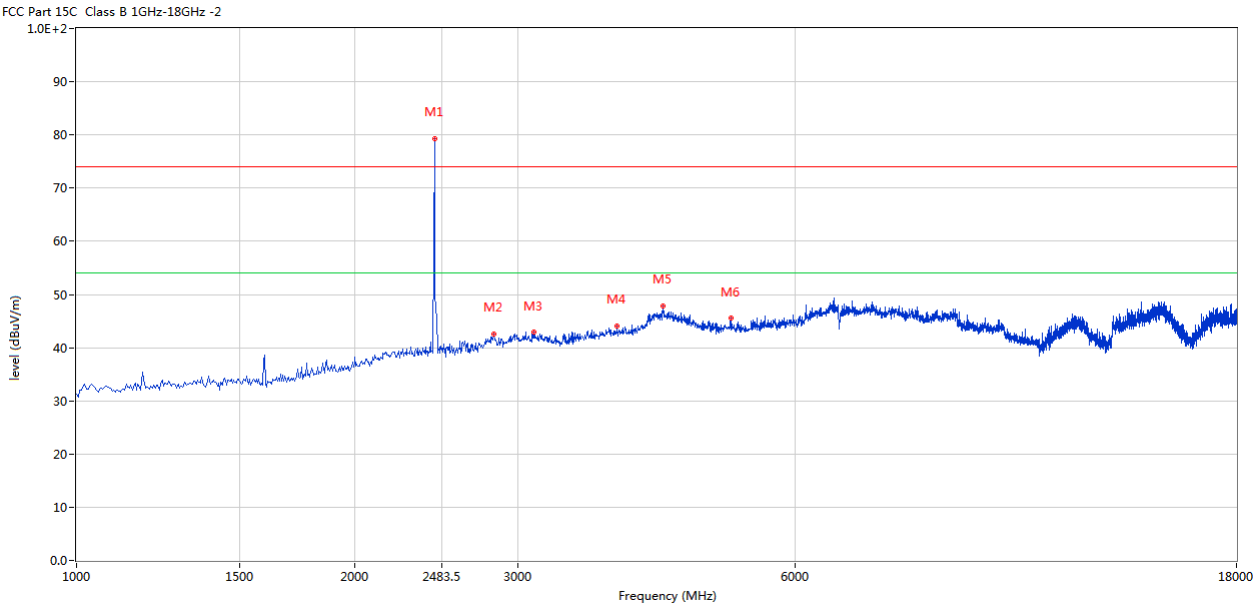
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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	79.24	-3.57	114.0	-34.76	Peak	0.00	100	Vertical	Pass
2	2831.292	42.50	-2.69	74.0	-31.50	Peak	282.00	100	Vertical	Pass
3	3124.469	43.01	-2.14	74.0	-30.99	Peak	287.00	100	Vertical	Pass
4	3846.788	43.99	0.55	74.0	-30.01	Peak	302.00	100	Vertical	Pass
5	4314.171	47.88	1.86	74.0	-26.12	Peak	210.00	100	Vertical	Pass
6	5112.972	45.48	3.79	74.0	-28.52	Peak	30.00	100	Vertical	Pass

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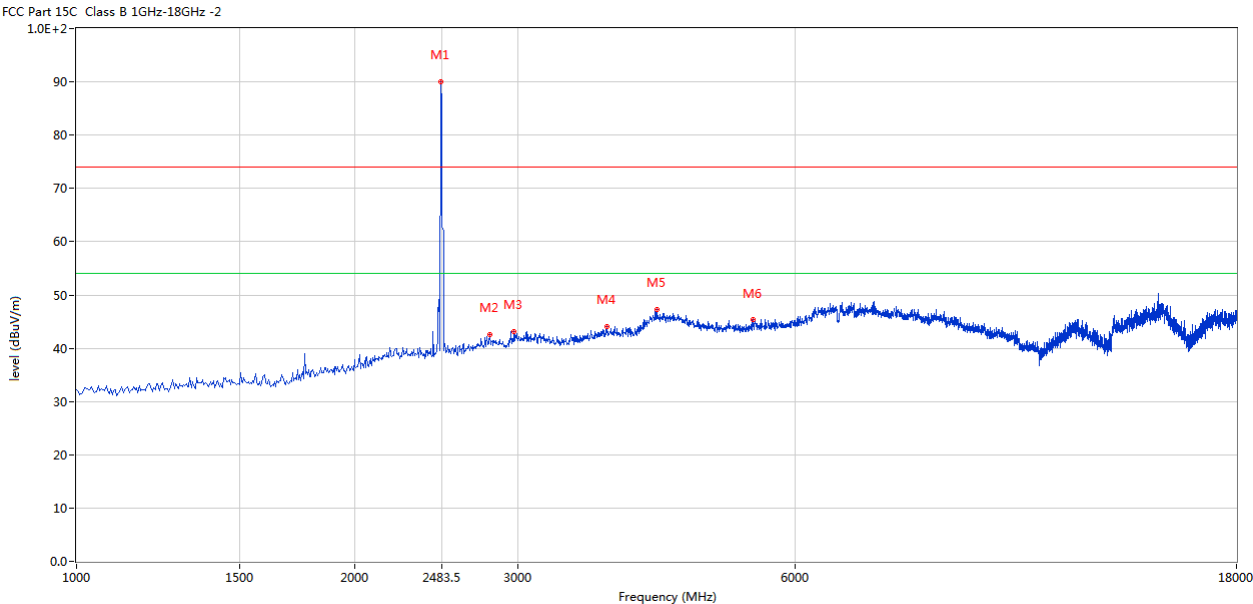
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	90.08	-3.57	114.0	-23.92	Peak	157.00	100	Horizontal	Pass
2	2801.550	42.58	-2.70	74.0	-31.42	Peak	310.00	100	Horizontal	Pass
3	2975.756	43.14	-2.65	74.0	-30.86	Peak	105.00	100	Horizontal	Pass
4	3753.312	44.01	0.06	74.0	-29.99	Peak	283.00	100	Horizontal	Pass
5	4246.188	47.31	1.71	74.0	-26.69	Peak	36.00	100	Horizontal	Pass
6	5401.900	45.40	3.71	74.0	-28.60	Peak	105.00	100	Horizontal	Pass

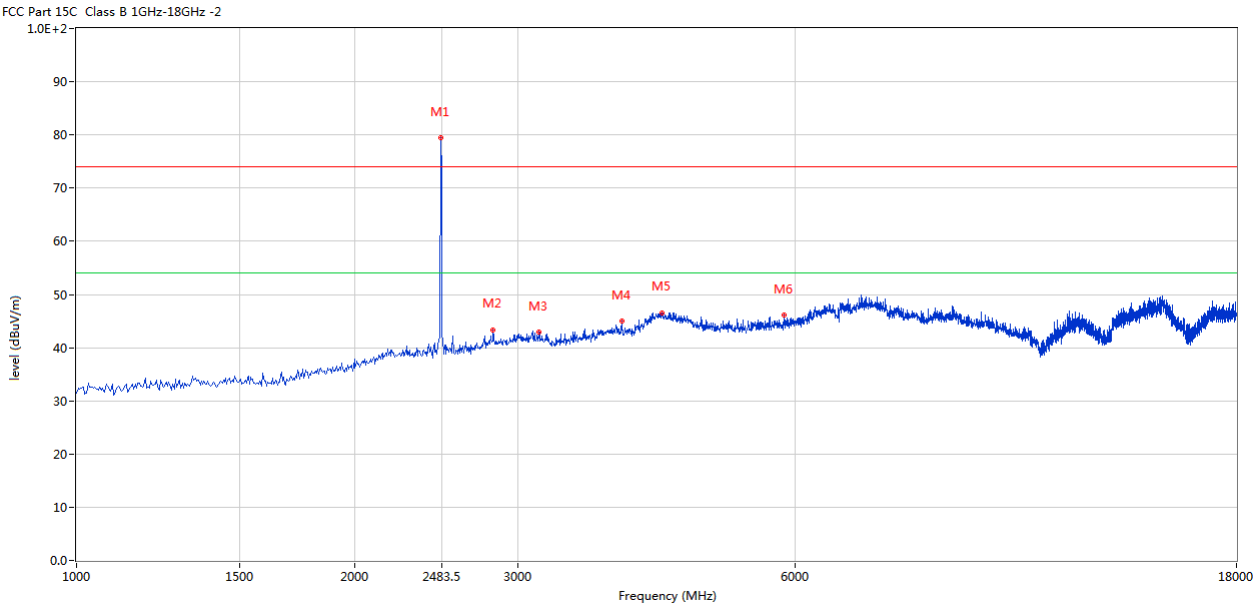
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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	79.56	-3.57	114.0	-34.44	Peak	131.00	100	Vertical	Pass
2	2822.794	43.23	-2.69	74.0	-30.77	Peak	94.00	100	Vertical	Pass
3	3166.958	42.84	-2.04	74.0	-31.16	Peak	0.00	100	Vertical	Pass
4	3889.278	45.03	0.76	74.0	-28.97	Peak	78.00	100	Vertical	Pass
5	4301.425	46.61	1.84	74.0	-27.39	Peak	291.00	100	Vertical	Pass
6	5835.291	46.12	3.82	74.0	-27.88	Peak	104.00	100	Vertical	Pass

- Note:
- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier
 - (3) Margin=Emission-Limits
 - (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
 - (5) For test purpose, keep EUT continuous transmitting
 - (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
 - (6) the measured PK value less than the AV limit.

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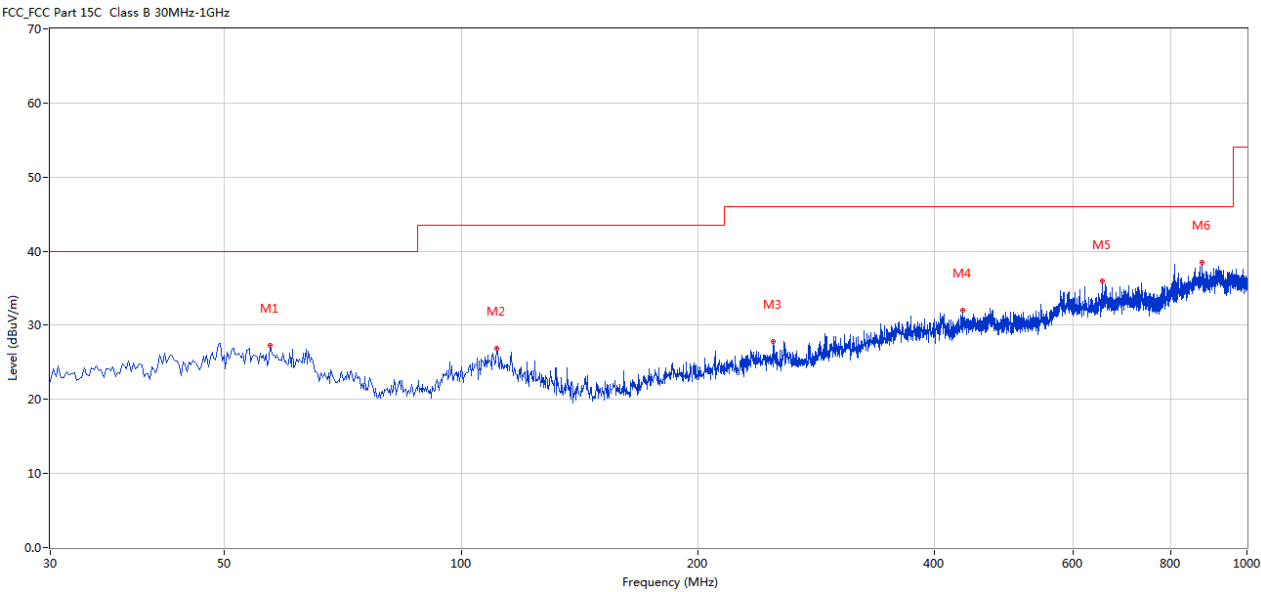


B. General Radiated Emission Data
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	57.153	27.34	-4.95	40.0	12.66	Peak	33.00	100	Horizontal	Pass
2	110.975	26.84	-5.97	43.5	16.66	Peak	244.00	100	Horizontal	Pass
3	249.650	27.80	-5.09	46.0	18.20	Peak	46.00	100	Horizontal	Pass
4	434.389	32.06	-0.93	46.0	13.94	Peak	202.00	100	Horizontal	Pass
5	655.251	35.93	1.98	46.0	10.07	Peak	342.00	100	Horizontal	Pass
6	876.113	38.52	5.00	46.0	7.48	Peak	276.00	100	Horizontal	Pass

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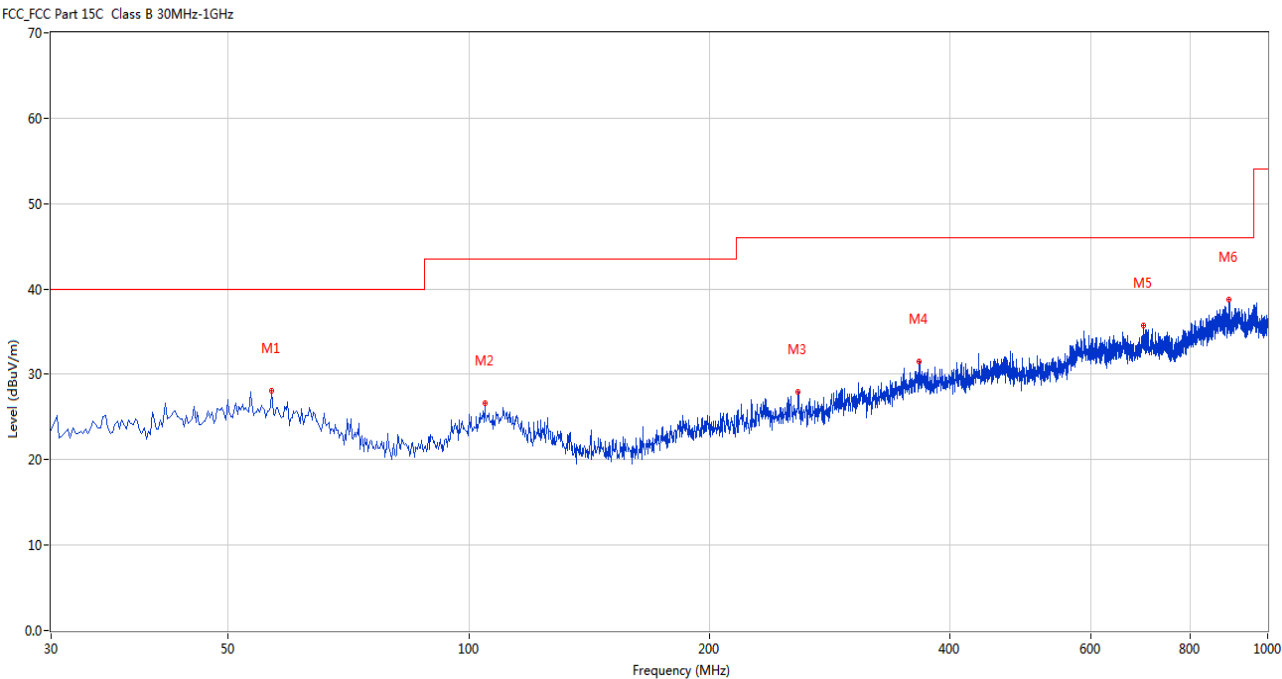


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: **Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	56.668	28.08	-4.99	40.0	11.92	Peak	246.00	100	Vertical	Pass
2	104.671	26.66	-6.30	43.5	16.84	Peak	112.00	100	Vertical	Pass
3	258.135	27.92	-4.97	46.0	18.08	Peak	158.00	100	Vertical	Pass
4	366.506	31.49	-1.74	46.0	14.51	Peak	309.00	100	Vertical	Pass
5	699.133	35.79	2.45	46.0	10.21	Peak	321.00	100	Vertical	Pass
6	893.812	38.79	4.83	46.0	7.21	Peak	296.00	100	Vertical	Pass

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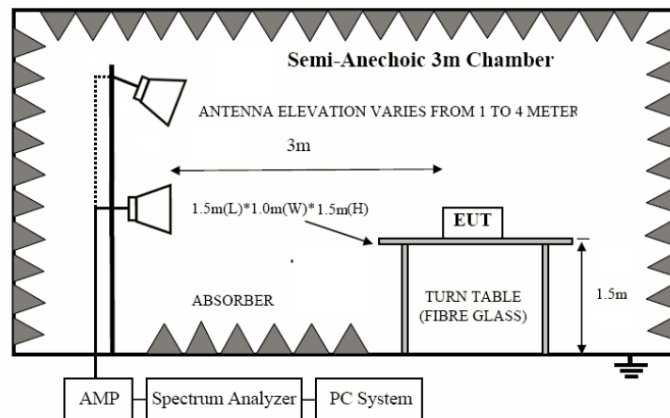


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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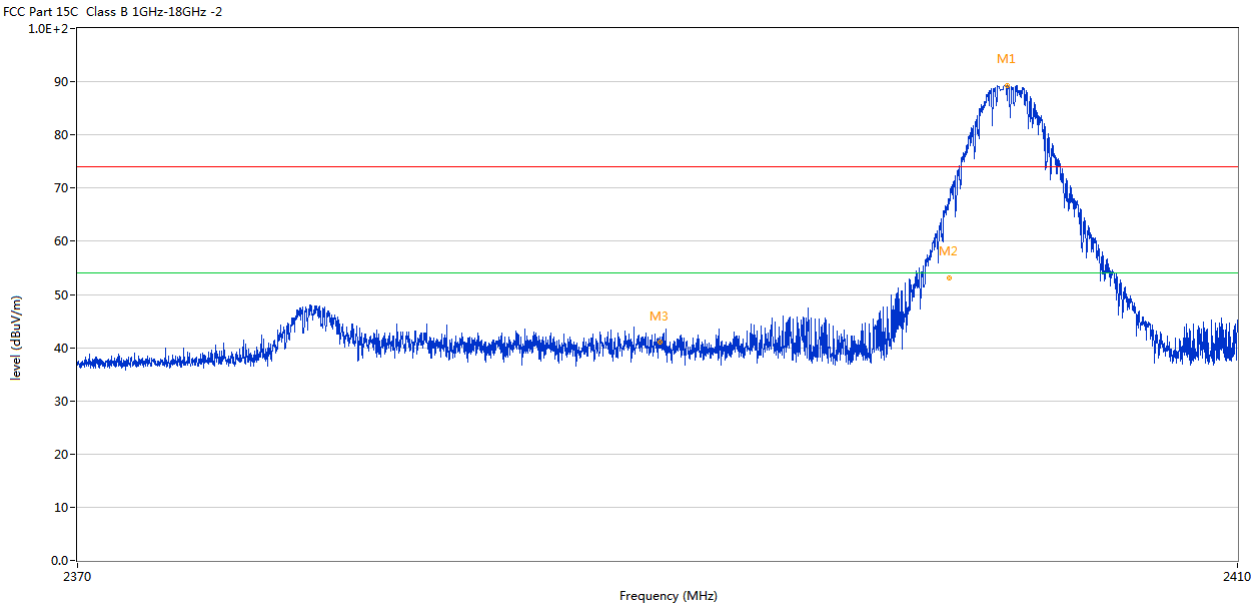
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7.6 Test Result

Product:	Battery Monitor	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC35V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

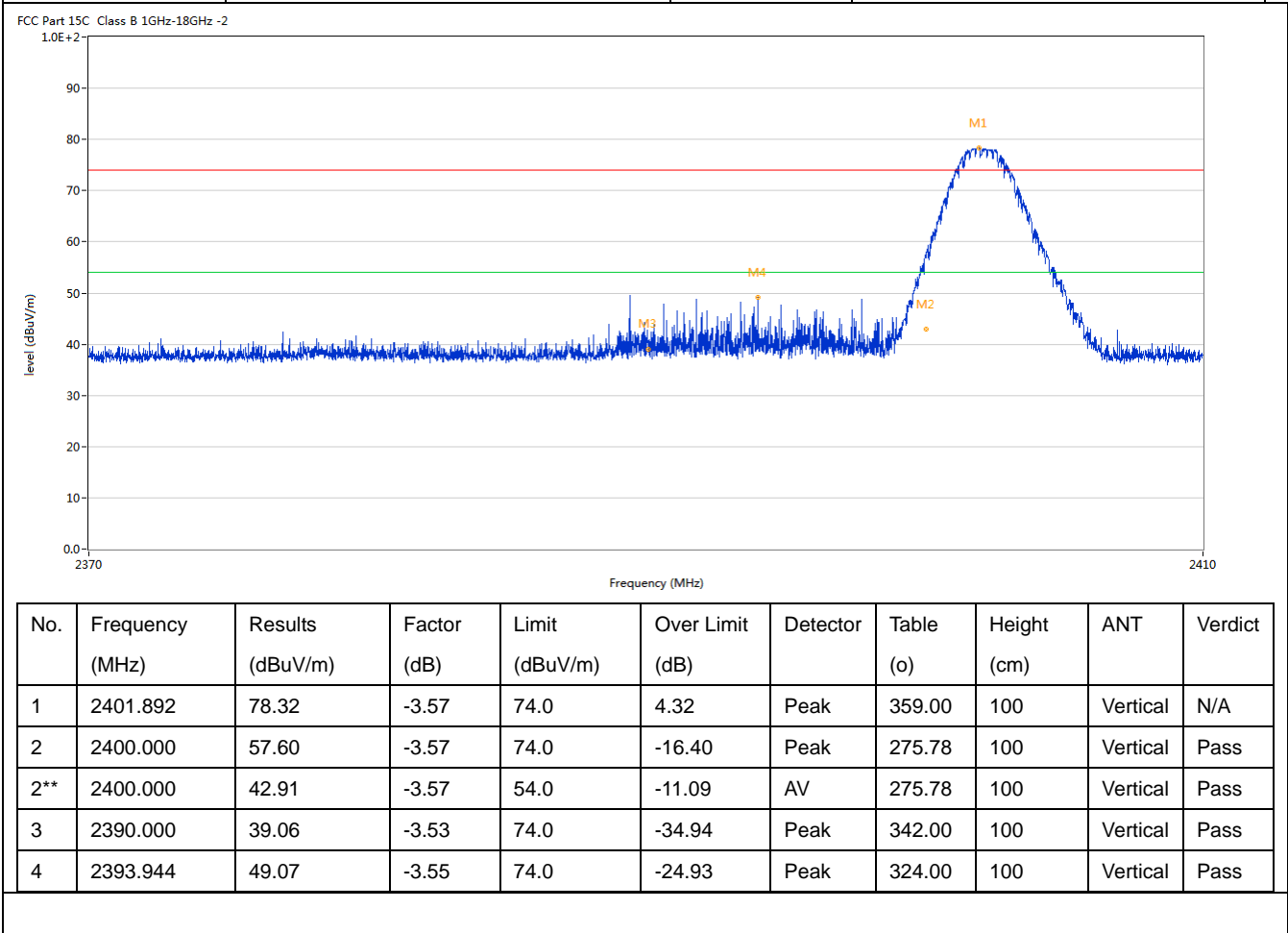


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.002	89.29	-3.57	74.0	15.29	Peak	160.00	100	Horizontal	N/A
2	2400.000	68.77	-3.57	74.0	-5.23	Peak	136.22	100	Horizontal	Pass
2**	2400.000	53.05	-3.57	54.0	-0.95	AV	136.22	100	Horizontal	Pass
3	2390.000	40.99	-3.53	74.0	-33.01	Peak	154.50	100	Horizontal	Pass

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Product:	Battery Monitor	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC35V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



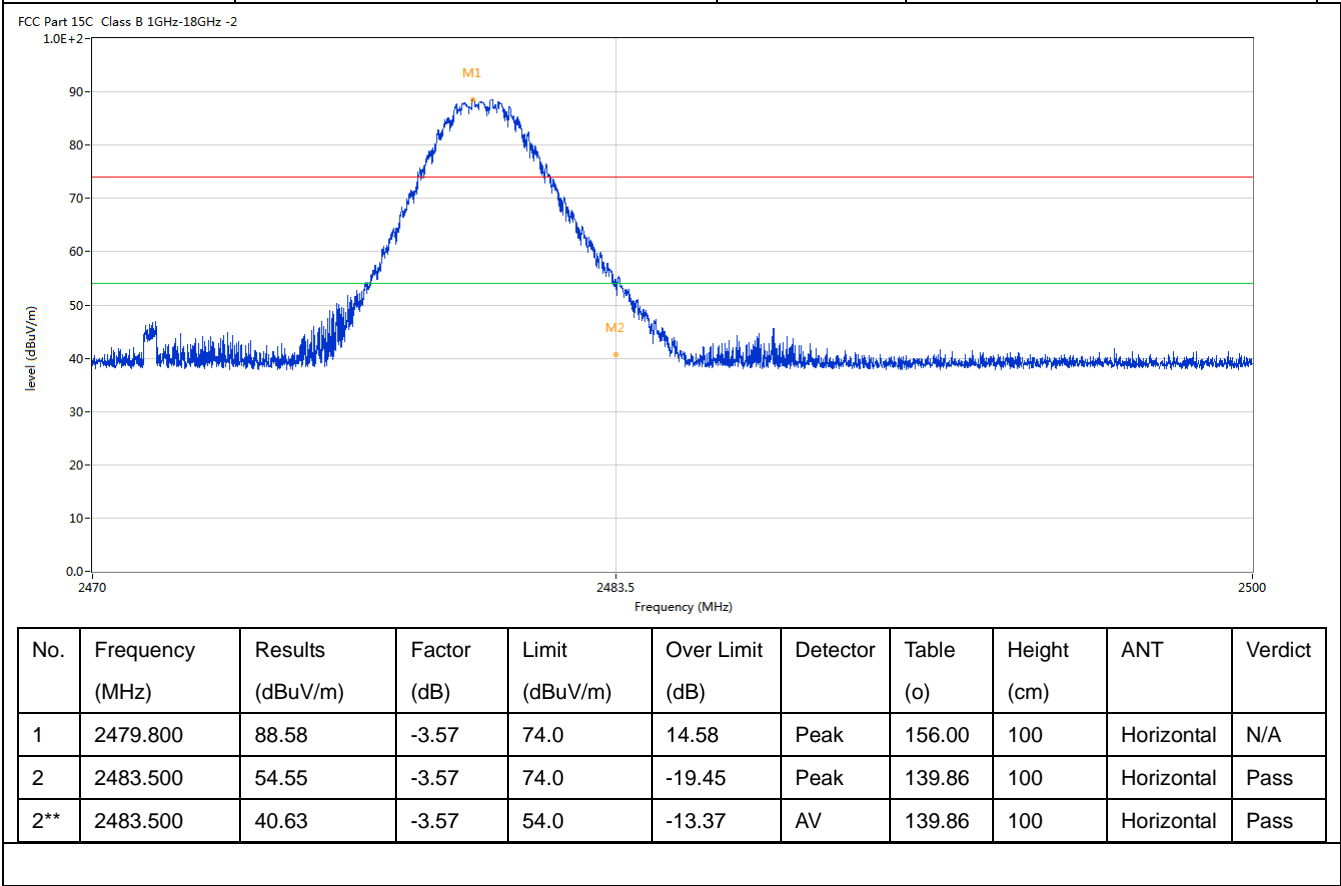
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Product:	Battery Monitor	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC35V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



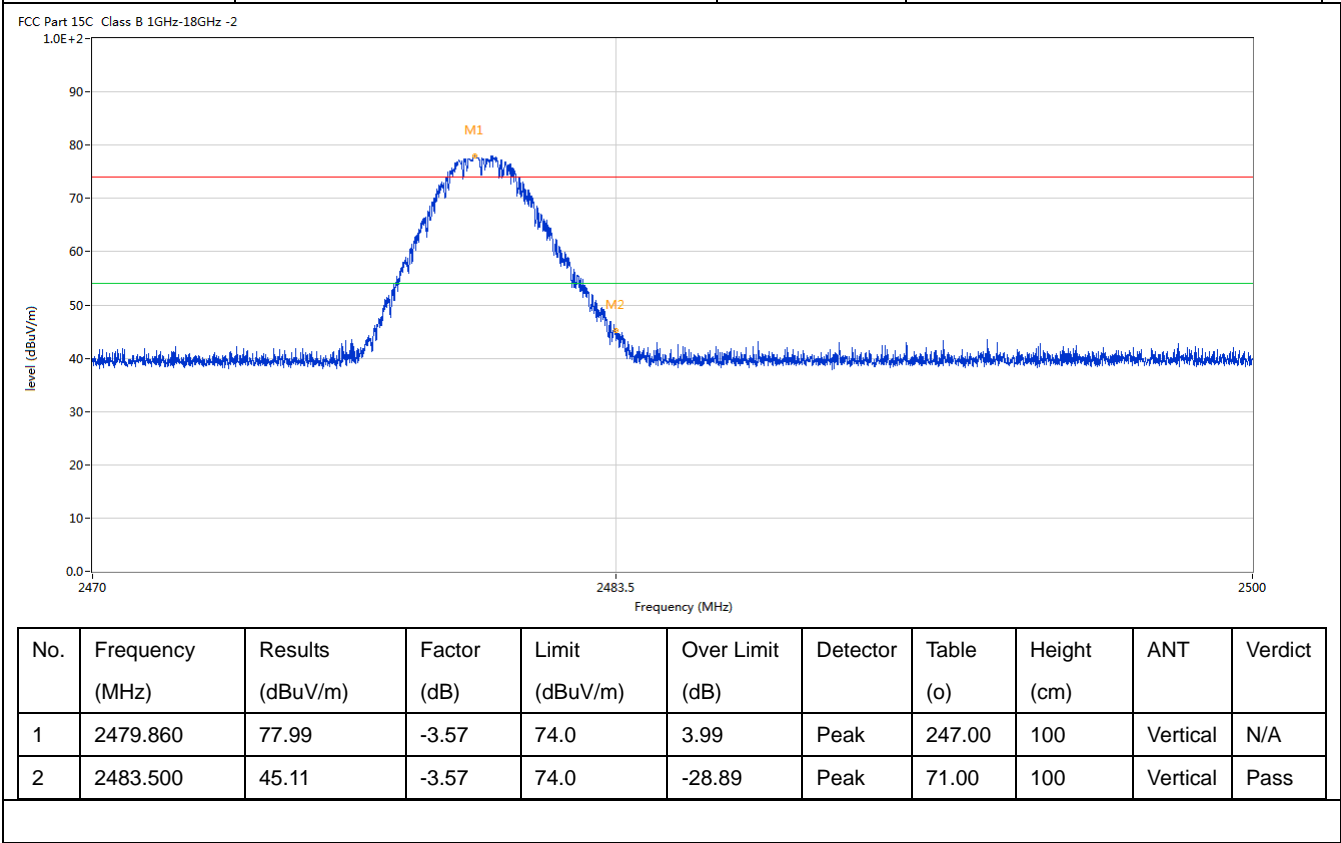
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Product:	Battery Monitor	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC35V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

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8.0 Antenna Requirement

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain 2.0dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

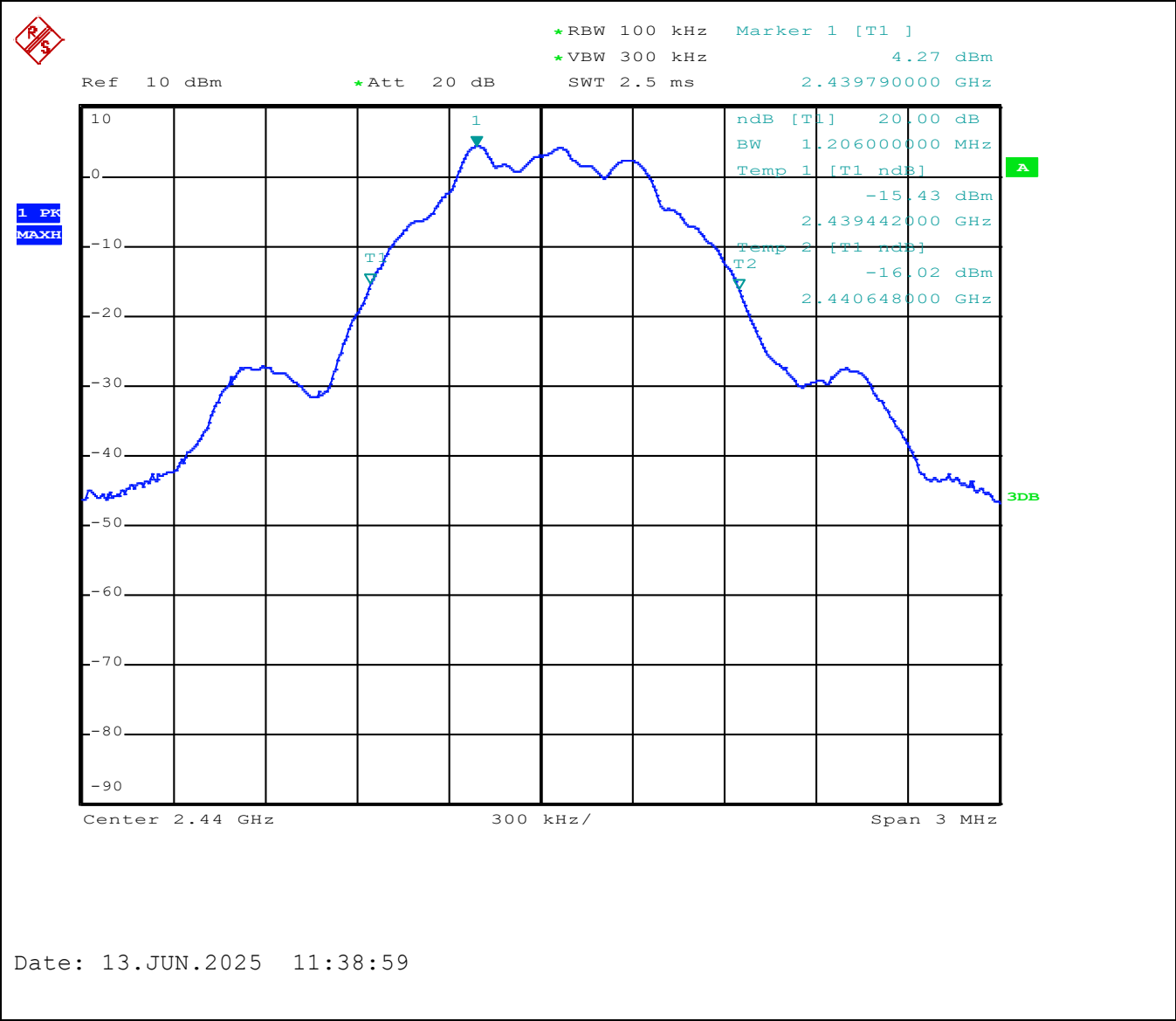
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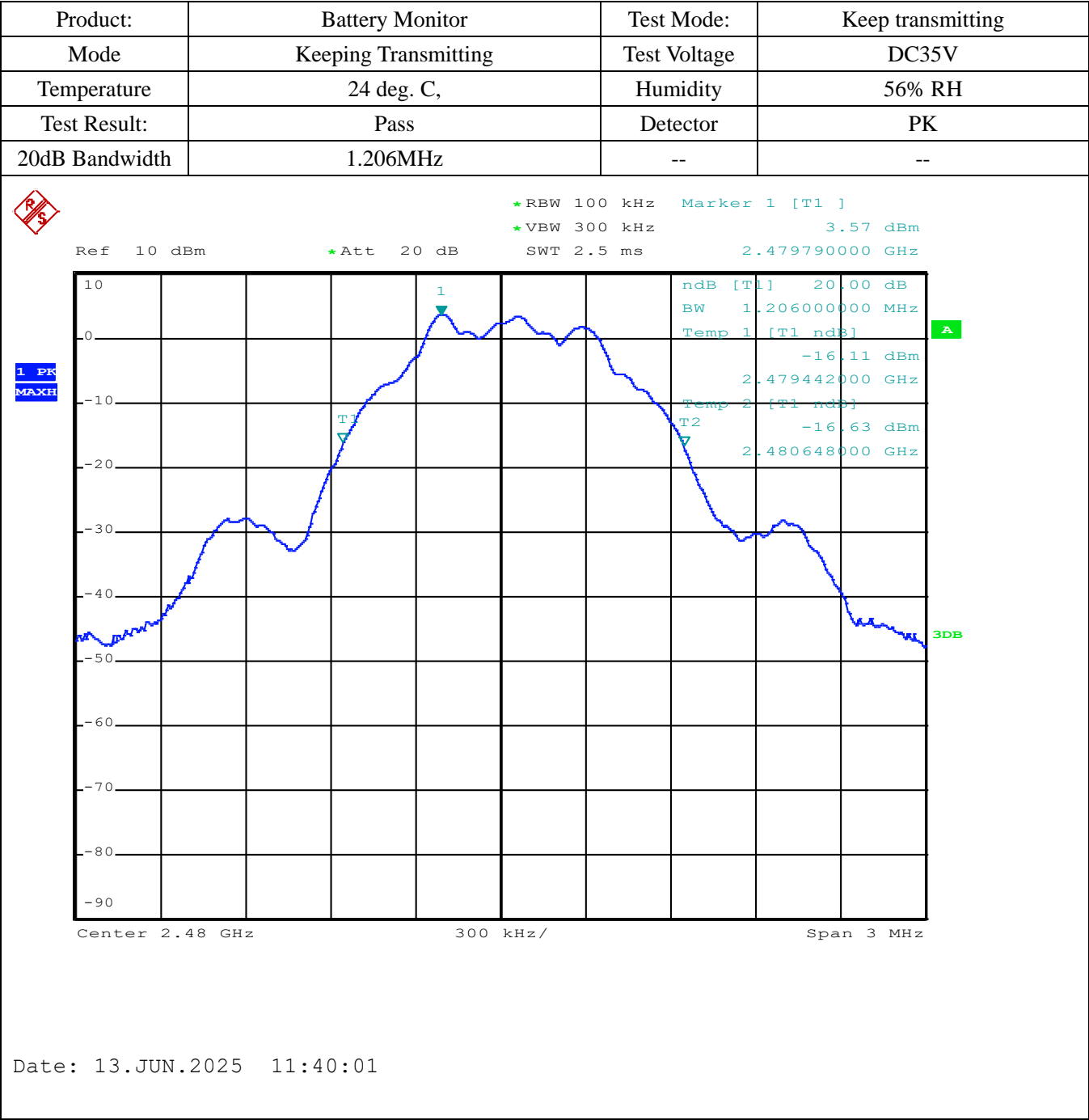
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Product:	Battery Monitor	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC35V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.206MHz	--	--



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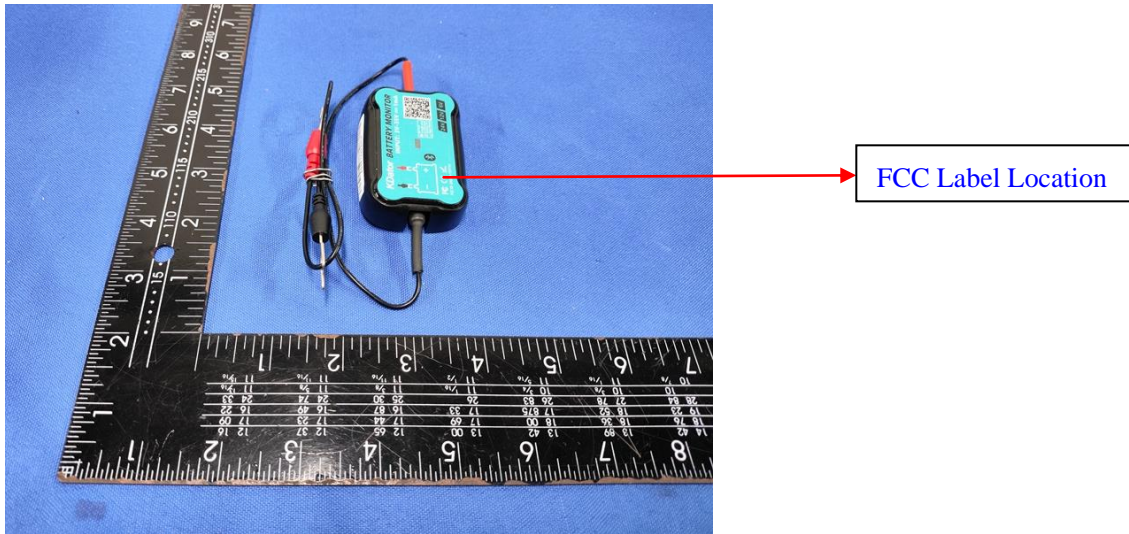


10.0 FCC ID Label

FCC ID: 2BQG4-KDSBM7

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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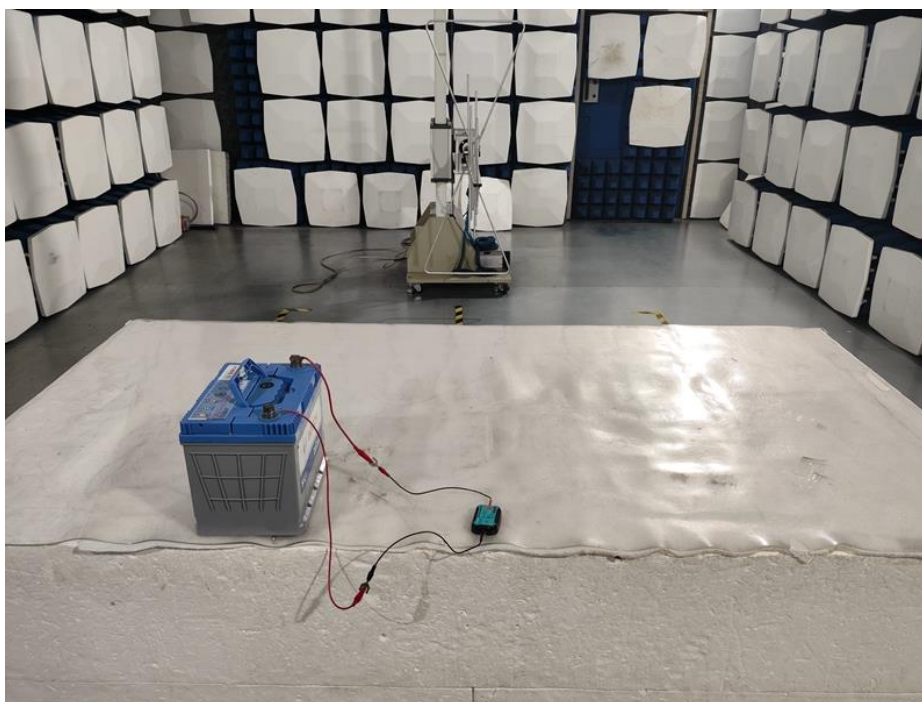
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- 11.0 Photo of testing
- 11.1 Conducted test View--
N/A

Radiated emission test view



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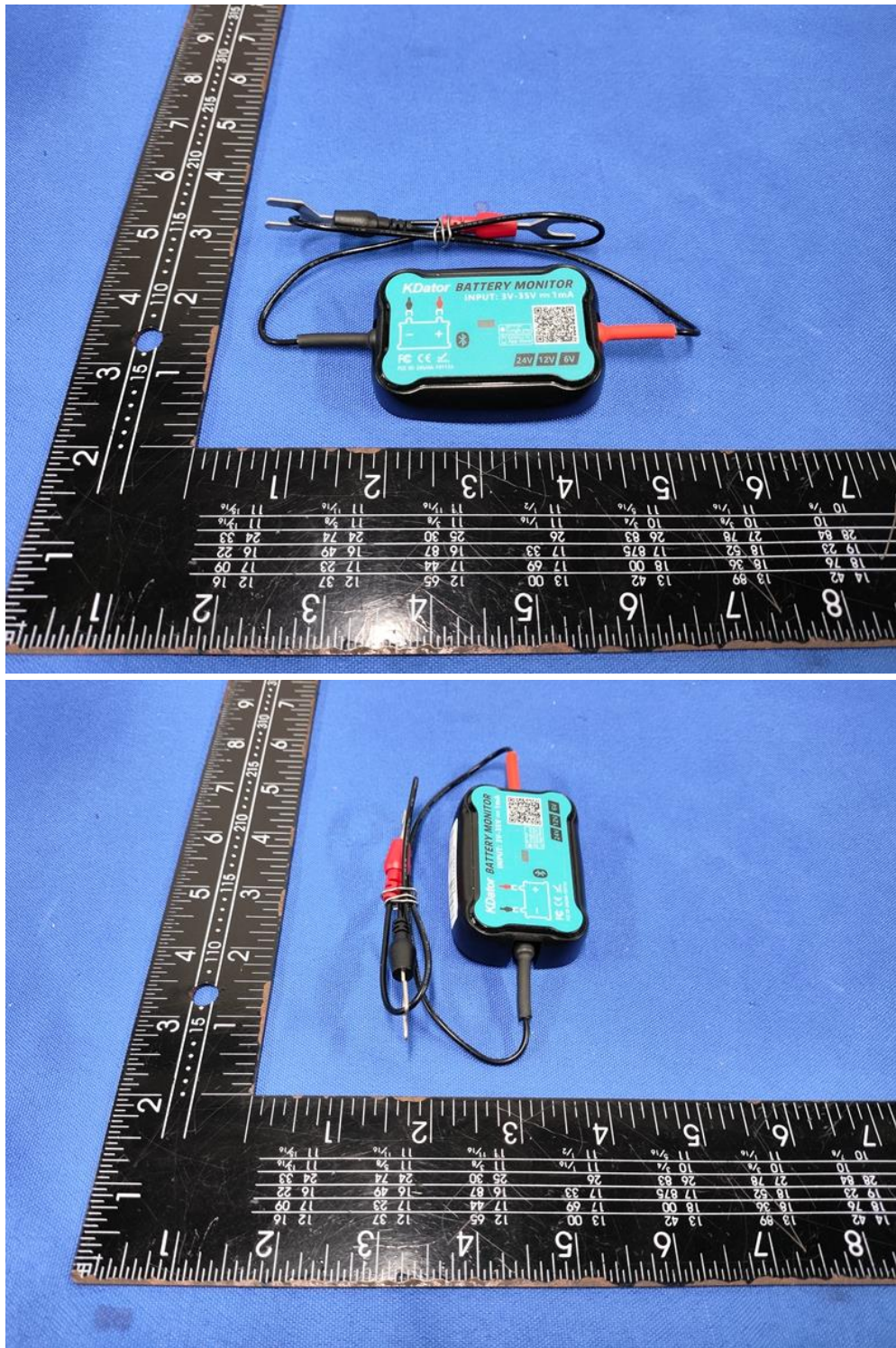
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Photographs – EUT

Outside View



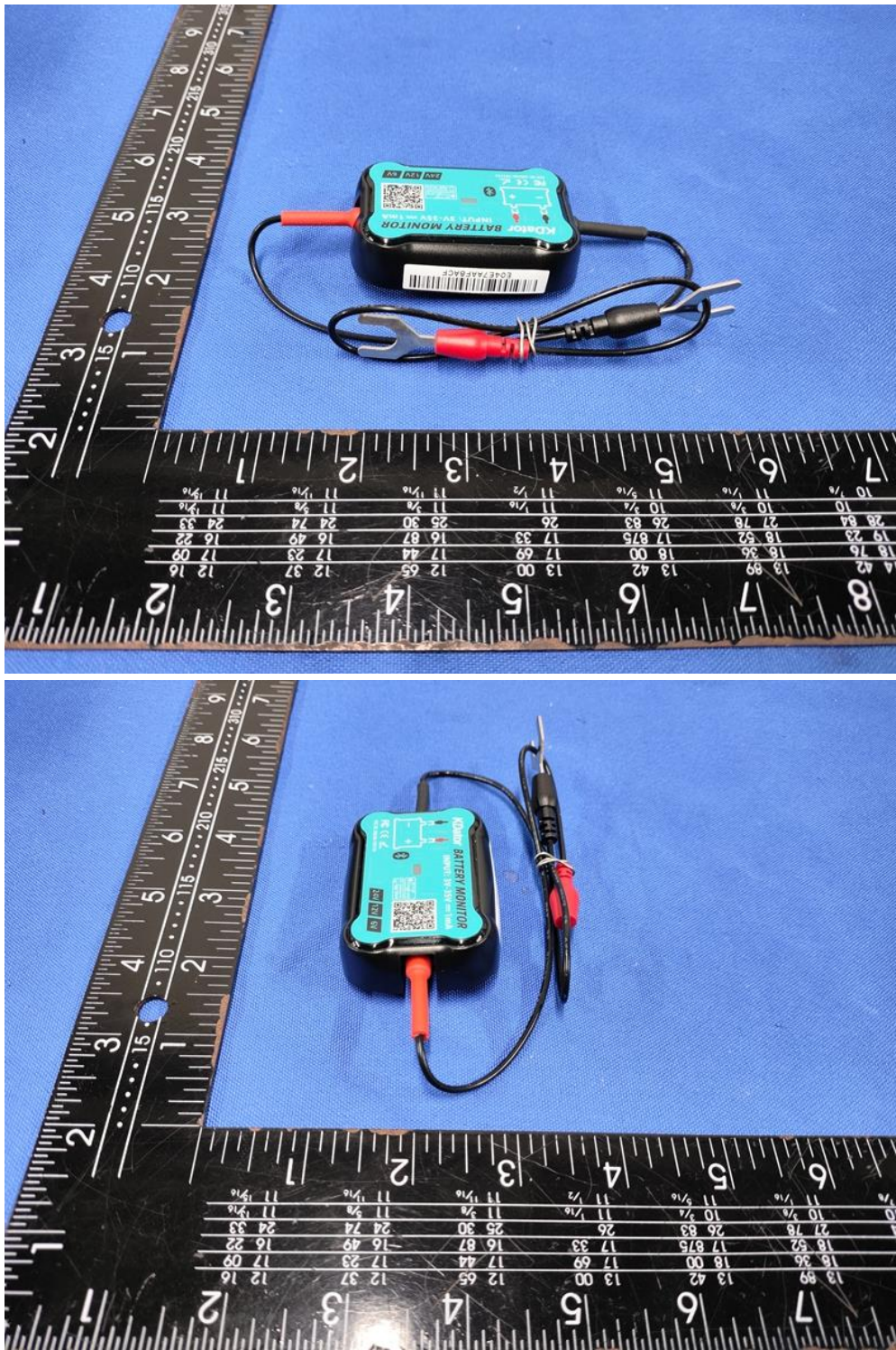
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Outside View



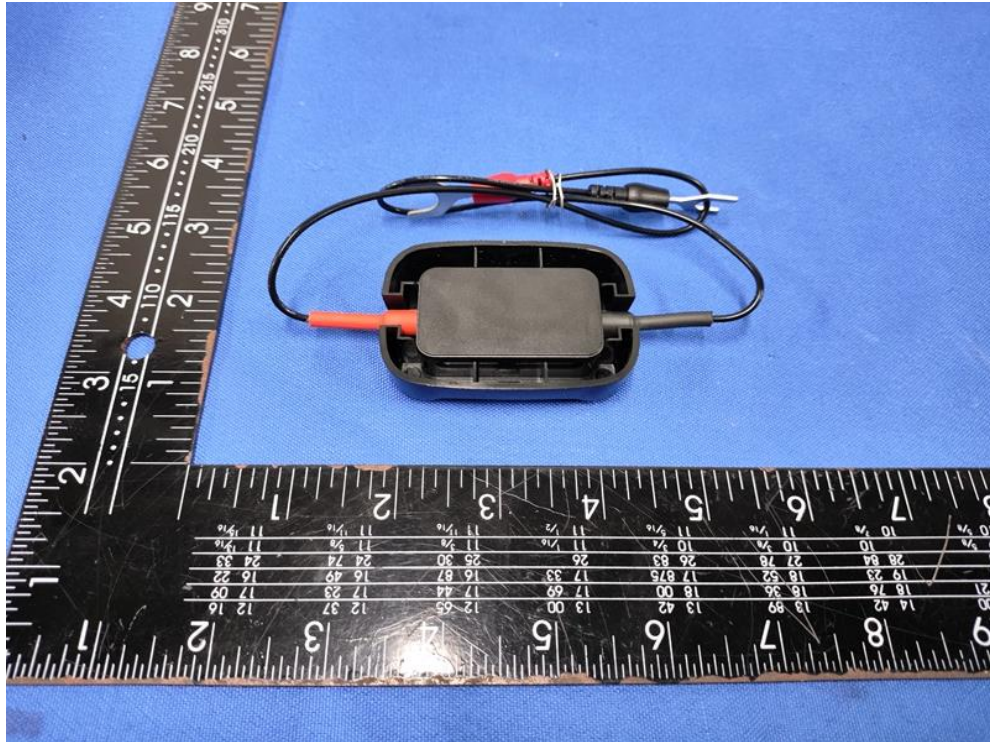
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Outside View



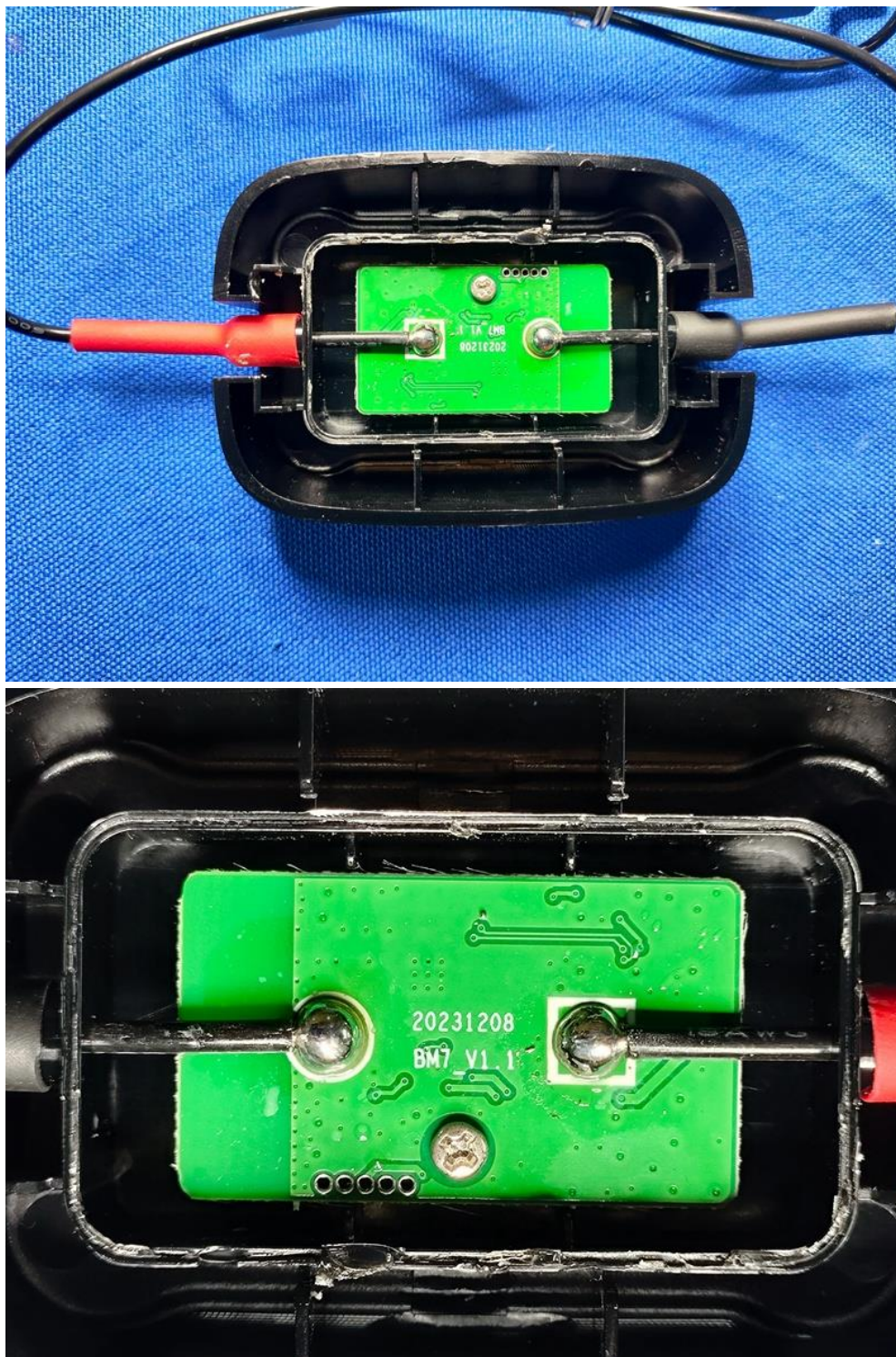
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Inside View



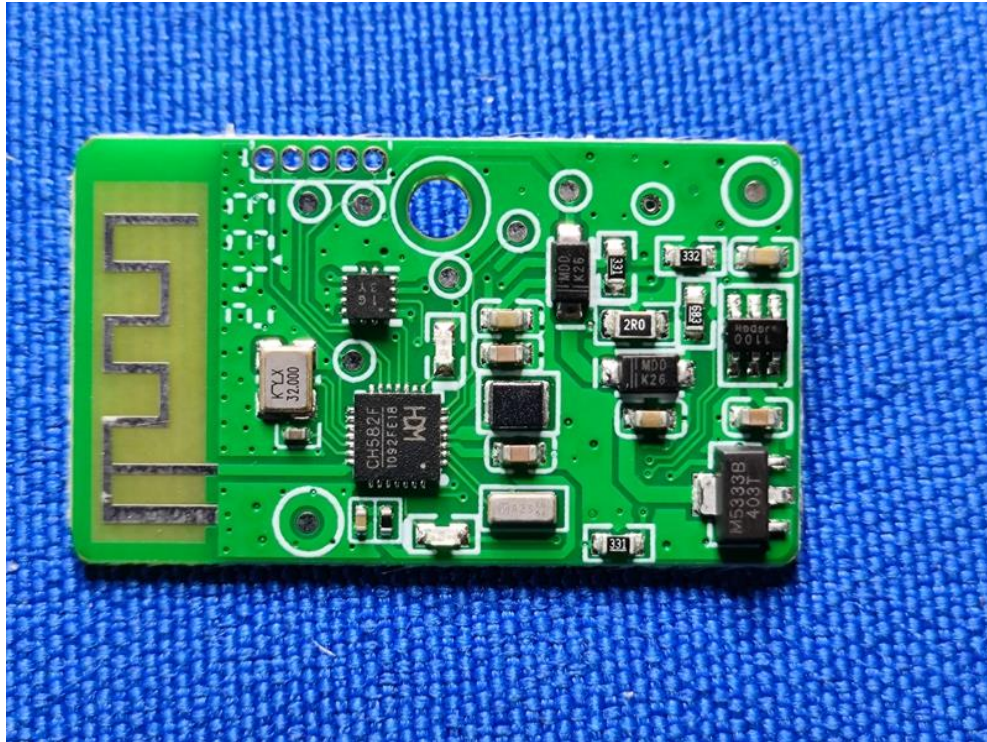
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Inside View



--End of the report--

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