

Report No.: TW2311004E

Applicant: Ningbo Pdlux Electronic Technology CO., LTD.

Product: Microwave Sensor

Model No.: PD-V5-N

Trademark: pdlux

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

Manager

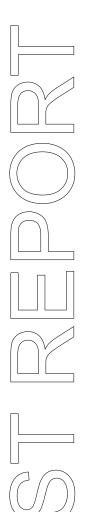
Dated: December 26, 2023

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

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Date: 2023-12-26



## **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

Date: 2023-12-26



# **Test Report Conclusion**

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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 Sates

Registration Number: 744189 For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant: Ningbo Pdlux Electronic Technology CO., LTD.

Address: 17F, Commerce building of Ningbo, No 588, south Tiantong road, yinzhou district Ningbo,

China

Telephone: 057465335018 Fax: 057465335333

#### 1.3 Description of EUT

Product: Microwave Sensor

Manufacturer: Ningbo Pdlux Electronic Technology CO., LTD.

Address: 17F, Commerce building of Ningbo, No 588, south Tiantong road, yinzhou district

Ningbo, China

Trademark: pdlux
Additional Trademark: N/A
Model Number: PD-V5-N
Additional Model Name N/A

\_ .

Rating: Input: DC5V

Modulation Type: Un-modulated Carrier, CW

Operation Frequency: 5750MHz-5850MHz

Channel Separate: 5MHz
Channel Number: 40
Hardware Version: V1.0
Software Version: V1.0
Serial No.: V5-N

Antenna Designation PCB Printed antenna with gain 0dBi Max (Get from the antenna Specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2023-11-01 to 2023-12-26

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

Print Name: Andy Xing

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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	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
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	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2023-07-14	2024-07-13
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

### 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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#### **Technical Details** 3.0

#### 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	Pass	Complies
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**

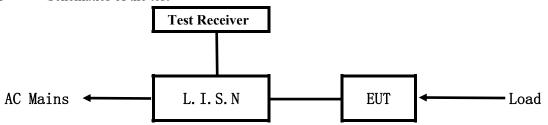
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

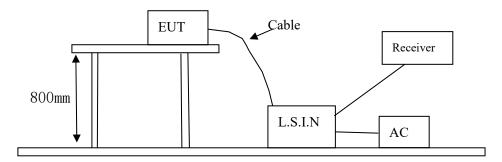


**EUT: Equipment Under Test** 

#### 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: 120V~, 60Hz 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	
Microwave Sensor	Ningbo Pdlux Electronic	PD-V5-N	2AIWW-PD-V5-N	
	Technology CO., LTD.	PD- V 3-IV	2AIW W-PD-V 3-IN	

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#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

#### C. Peripherals

Device	Manufacturer	Model	Rating
DC Power	QJ	QJ-305	DC0-50V, 10A Maximum
Supply			

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	Limits (dB $\mu$ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	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:

Pass

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## A: Conducted Emission on Live Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

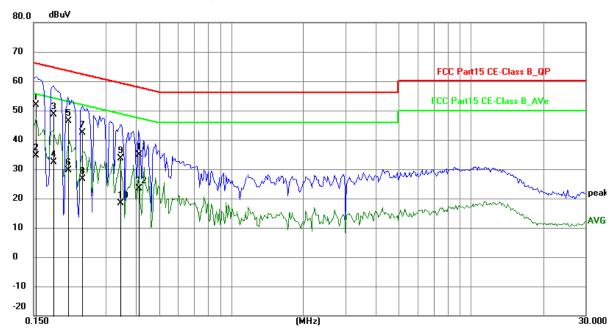
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1539	41.99	9.78	51.77	65.79	-14.02	QP	Р
2	0.1539	24.78	9.78	34.56	55.79	-21.23	AVG	Р
3	0.1812	38.81	9.76	48.57	64.43	-15.86	QP	Р
4	0.1812	22.64	9.76	32.40	54.43	-22.03	AVG	Р
5	0.2085	36.73	9.75	46.48	63.26	-16.78	QP	Р
6	0.2085	19.77	9.75	29.52	53.26	-23.74	AVG	Р
7	0.2397	32.62	9.75	42.37	62.11	-19.74	QP	Р
8	0.2397	16.85	9.75	26.60	52.11	-25.51	AVG	Р
9	0.3450	23.85	9.76	33.61	59.08	-25.47	QP	Р
10	0.3450	8.55	9.76	18.31	49.08	-30.77	AVG	Р
11	0.4113	25.13	9.76	34.89	57.62	-22.73	QP	Р
12	0.4113	13.56	9.76	23.32	47.62	-24.30	AVG	Р

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## B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

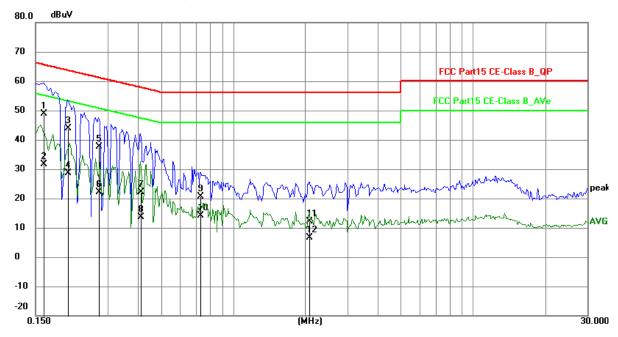
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	39.09	9.78	48.87	65.38	-16.51	QP	Р
2	0.1617	21.74	9.78	31.52	55.38	-23.86	AVG	Р
3	0.2046	34.23	9.75	43.98	63.42	-19.44	QP	Р
4	0.2046	18.81	9.75	28.56	53.42	-24.86	AVG	Р
5	0.2748	27.90	9.75	37.65	60.97	-23.32	QP	Р
6	0.2748	12.32	9.75	22.07	50.97	-28.90	AVG	Р
7	0.4113	12.45	9.76	22.21	57.62	-35.41	QP	Р
8	0.4113	3.75	9.76	13.51	47.62	-34.11	AVG	Р
9	0.7310	10.88	9.78	20.66	56.00	-35.34	QP	Р
10	0.7310	4.33	9.78	14.11	46.00	-31.89	AVG	Р
11	2.0765	2.45	9.80	12.25	56.00	-43.75	QP	Р
12	2.0765	-3.08	9.80	6.72	46.00	-39.28	AVG	Р

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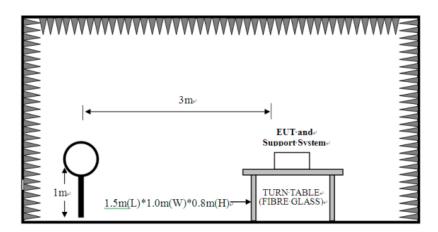


#### **6** Radiated Emission Test

- 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 40 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**

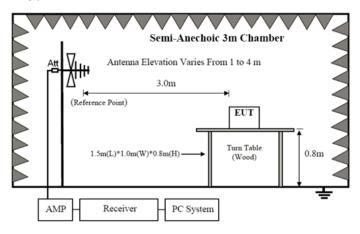
For radiated emissions from 9kHz to 30MHz



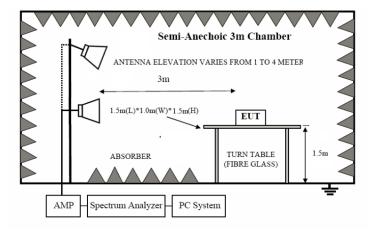
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For radiated emissions from 30MHz to1GHz



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:

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

Fundamental Frequency	Field Stre	ength of Fundame	ental (3m)	Field S	trength of Harmo	onics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBuV/m	
5725-5875	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	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (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-40G, the final emission level got using PK. For fundamental measurement, PK detector used.

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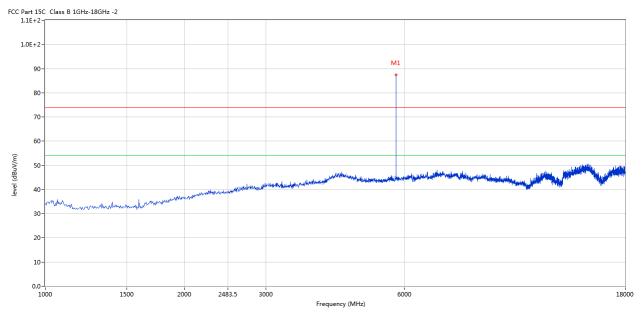


#### 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-5750MHz

#### Horizontal



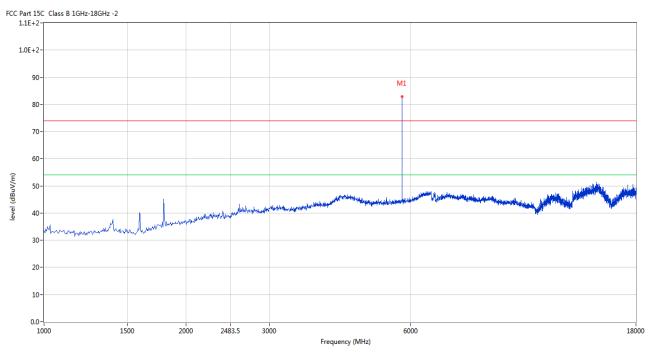
Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	5750	87.39	3.83	114.0	-26.61	Peak	282.00	100	Horizontal	Pass

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#### Vertical



Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
Ī	1	5750	82.88	3.83	114.0	-31.12	Peak	200.00	100	Vertical	Pass

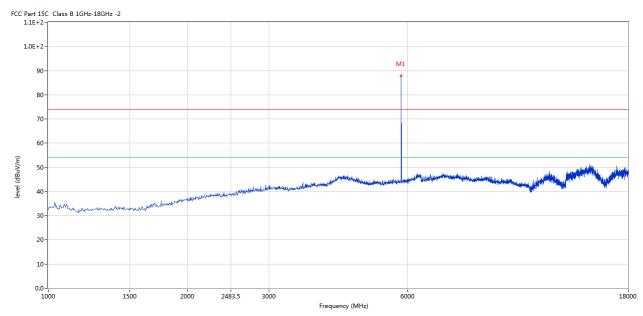
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Please refer to the following test plots for details: Middle Channel-5800MHz

#### Horizontal



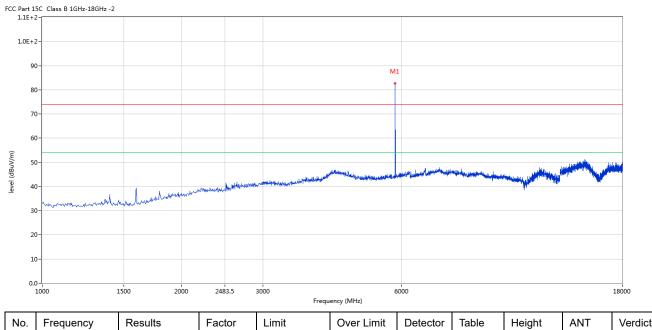
N	o.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		5800	87.87	3.83	114.0	-26.13	Peak	296.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	5800	82.56	3.83	114.0	-31.44	Peak	168.00	100	Vertical	Pass

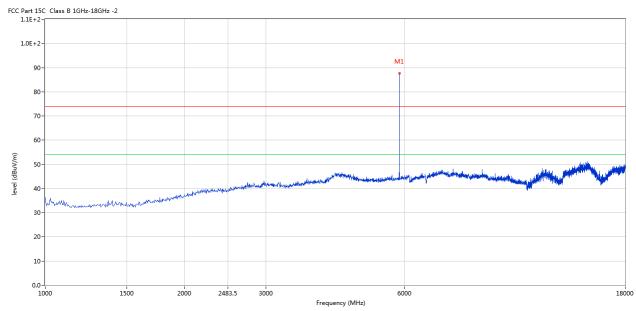
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Please refer to the following test plots for details: High Channel-5850MHz

#### Horizontal



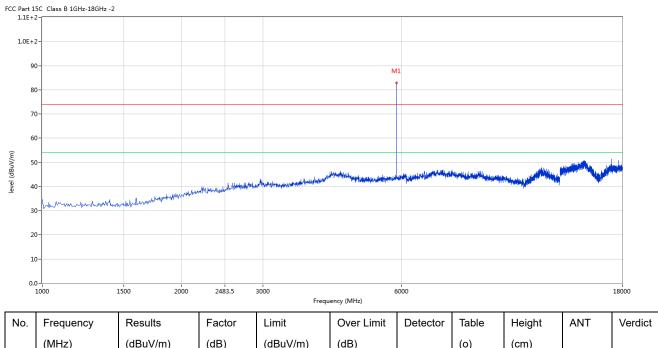
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	5850	87.61	3.82	114.0	-26.39	Peak	299.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	5850	82.89	3.82	114.0	-31.11	Peak	338.00	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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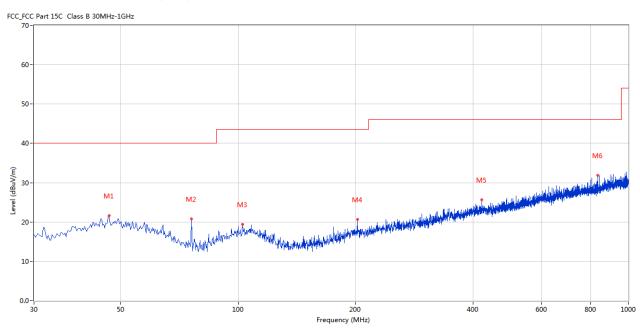


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	46.728	21.62	-11.44	40.0	18.38	Peak	180.00	100	Horizontal	Pass
2	76.063	20.84	-17.57	40.0	19.16	Peak	350.00	100	Horizontal	Pass
3	102.732	19.45	-13.39	43.5	24.05	Peak	114.00	100	Horizontal	Pass
4	202.132	20.62	-13.40	43.5	22.88	Peak	88.00	100	Horizontal	Pass
5	421.297	25.69	-8.12	46.0	20.31	Peak	282.00	100	Horizontal	Pass
6	834.171	31.92	-2.73	46.0	14.08	Peak	69.00	100	Horizontal	Pass

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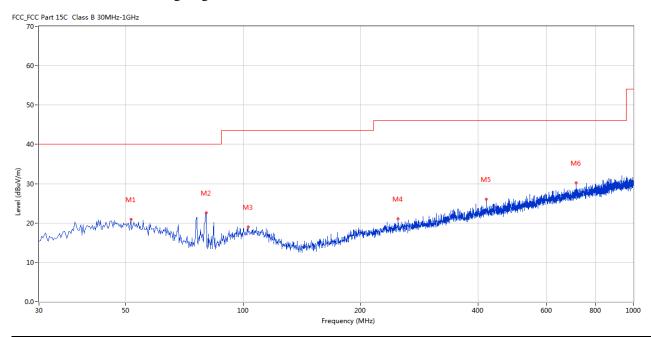


### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	51.577	20.97	-11.41	40.0	19.03	Peak	248.00	100	Vertical	Pass
2	80.427	22.65	-17.37	40.0	17.35	Peak	352.00	100	Vertical	Pass
3	102.974	19.04	-13.38	43.5	24.46	Peak	199.00	100	Vertical	Pass
4	249.650	21.13	-12.11	46.0	24.87	Peak	200.00	100	Vertical	Pass
5	419.600	26.02	-8.26	46.0	19.98	Peak	325.00	100	Vertical	Pass
6	713.679	30.16	-3.89	46.0	15.84	Peak	265.00	100	Vertical	Pass

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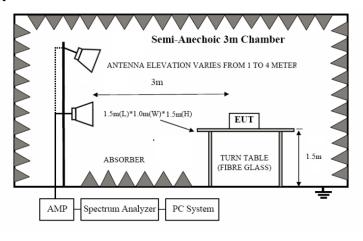
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## 7. Band Edge

#### 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.

The report refers only to the sample tested and does not apply to the bulk.

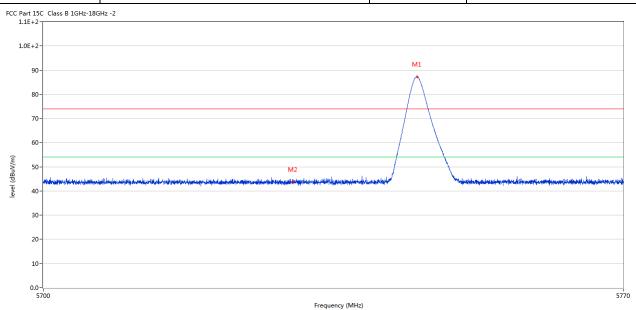
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#### 7.6 Test Result

Product:	Microwave Sensor	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC5.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	5749.999	87.25	3.83	74.0	13.25	Peak	307.00	100	Horizontal	N/A
2	5725.022	43.85	3.83	74.0	-30.15	Peak	0.00	100	Horizontal	Pass

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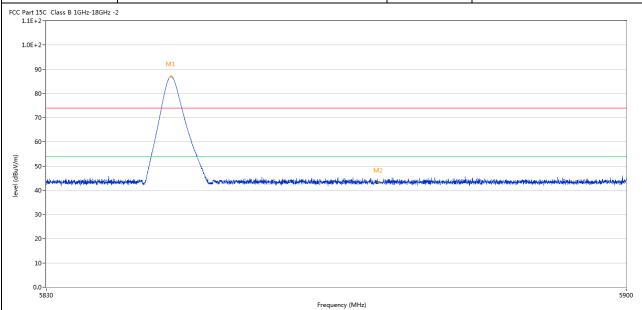


1	Product:		Microwa	ve Sensor		Detecto	or	7	/ertical	
	Mode		Keeping T	ransmitting		Test Volt	age	Г	C5.0V	
Te	mperature		24 d	eg. C,		Humidi	ty	5	6% RH	
	est Result:			ass						
	15C Class B 1GHz-18GHz	-2					ı			
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1.0E+	2-									
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. 5 . 4 . 3	0			Limit	Over Limit	Detector	Table	Height		5770  Verdic

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Product:	Microwave Sensor	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC5.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	5849.994	87.08	3.82	74.0	13.08	Peak	163.00	100	Horizontal	N/A
2	5875.000	43.28	3.82	74.0	-30.72	Peak	317.82	100	Horizontal	Pass

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	Product:		Micro	wave Sensor		Det	ector		Vertical			
	Mode		Keeping Transmitting 24 deg. C,					DC5.0V				
Т	emperature											
7	Test Result:			Pass		-						
CC Part 1	15C Class B 1GHz-18GHz	-2				J		l .				
1.0E+												
g	10-	M1										
8	60-	$\triangle$										
7	70-											
6	60-											
	0-		<b>\</b>		M2							
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(W/ADROD) laws 4	10-10-10-10-10-10-10-10-10-10-10-10-10-1			Fro	equency (MHz)					5900		
(W/nngp) Javai 4 2 2 1 0	Frequency	Results	Factor	Fro Limit	equency (MHz)	Detector	Table	Height	ANT	5900		
(W/\ngp) jakej 4 2 2 1 1 0 No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	equency (MHz)  Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	5900 Verdid		
(m/ngp) Java 4 2 2 1 0	Frequency	Results	Factor	Fro Limit	equency (MHz)		Table	Height				

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

Date: 2023-12-26



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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 Printed antenna with gain 0dBi maximum. It fulfills the requirement of this section. Test Result: Pass

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Product:	Mi	crowave S	ensor	Test Mode: Test Voltage		Keep transmitting DC5.0V				
Mode	Keep	oing Trans	mitting							
Temperature	24 deg. C,				Humid		56% RH			
Test Result:		Pass			Detect	or	PK			
OdB Bandwidth										
	Marker	1 [T1 n	ndB]	RBW	30 l	KHZ	RF Att	30 dB		
Ref Lvl	ndB	VBW	100 }							
10 dBm	BW 98	3.196392	279 kHz	SWT	5 n	ແຮ	Unit	dBm		
					<b>v</b> <sub>1</sub>	[T1	] -	6.34 dBm		
							5.7499			
0					ndi	B	20	0.00 dB		
				N	BW ∇ <sub>T</sub>	 1 [T:	98.1963! 11 -2	9279 kHz 6.89 dBm		
-10							5.7499			
			/	\	$ abla_{ m T}$	2 [T:	1] -2	6.44 dBm		
-20 1MAX			TA	Ţ2 <b>V</b>			5.7500	2004 GHz		
-30										
- 40										
-50		mm			Mysn		<u> </u>			
-60 MM (w)	A COLOR DE LA COLO	, <del>, , , , , , , , , , , , , , , , , , </del>			· · · · · · · · · · · · · · · · · · ·		Mary Company Confliction	ender which		
-70										
-80										
-90 Center 5.749	207405 277		100	kHz/				an 1 MHz		

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Product:		Mic	rowave Se	nsor		Test Mod	e:	Keep t	ransmitting	
Mode		Keepi	ing Transn	nitting		Test Volta	ge	D	C5.0V	
Temperature			24 deg. C,	ı		Humidit	y	56% RH		
Test Result:	Pass				Detector	r	PK			
20dB Bandwidth			98.20kHz							
(R)	Ma	arker	1 [T1 n	ndB]	RBW	30 k	Hz	RF Att	30 dB	
Ref Lvl	no	ndB 20.00 dB			VBW					
10 dBm	BV	w 98	.196392	279 kHz	SWT	5 m	ıs	Unit	dBm	l
10						<b>v</b> <sub>1</sub>	[T1]	_	5.29 dBm	
								5.7999	7295 GHz	A
0				-		ndE	8	2	0.00 dB	
						BW		98.1963	9279 kHz	
-10					\	$\nabla_{\mathrm{T}}$	[T1	_	5.59 dBm	
				/	\	-		5.7999		
-20						$\nabla_{\mathrm{T2}}$	2 [T1			
1MAX				T	T2 7			5.8000	2004 GHz	1MA
-30										
-50										
		lu	M. A. A. M.			Ma Max	4.41	lies		
-60 Mr-4444	Alpho Alor	M. A. A.	hw- A- A-			An Mark	A A MAN	<del>~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	WW/LW	
-70										
-80										
-90 Center 5.	.7999729	46 GH2	z	100	kHz/			Sp	an 1 MHz	
Date: 26	.DEC.202	23 16	:14:52							

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Product:	Mic	crowave Se	nsor		Test Mod	le:	Keep tr	ansmitting	
Mode	Keep	ing Transn	nitting		Test Volta	.ge	DO	C5.0V	
Temperature	24 deg. C, Pass				Humidit	y	56% RH PK		
Test Result:					Detector	r			
20dB Bandwidth		96.19kHz							
Ŕ	Marker	1 [T1 n	idB]	RBW	30 k	Hz	RF Att	30 dB	
Ref Lvl	ndB 20.00 dB			VBW					
10 dBm	BW 96	5.192384	77 kHz	SWT	5 m	ເຮ	Unit	dBm	
10					<b>v</b> <sub>1</sub>	[T1]	_	4.09 dBm	
							5.8499	7695 GHz	A
0					ndI	3	20	0.00 dB	
					BW		96.1923	8477 kHz	
-10			/	<del>\</del>	$\nabla_{\mathbf{T}}$	[T1]		3.73 dBm	
				\	_			2585 GHz	
-20					$\nabla_{\mathrm{T}_{2}^{2}}$	2 [T1]		3.76 dBm	
1MAX			T/L	†2 <b>7</b>			5.8500	2204 GHz	1MA
			/ /	\					
-30									
-50	1 muly my hu	Junt			youland	M. n. n.	Vrw. Aym.		
-60	() () () () () () () () () () () () () (						WY VIVIUS	<del>\m\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	
-70									
-80									
-90 Contor 5	849976954 GH:	7	100	bus/	<u> </u>		Com	an 1 MHz	
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Date: 26	.DEC.2023 16	:16:00							

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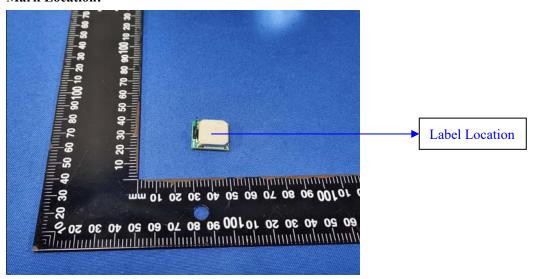


#### 10.0 FCC ID Label

#### FCC ID: 2AIWW-PD-V5-N

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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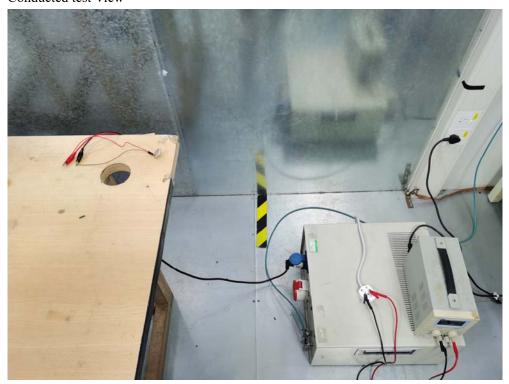
Report No.: TW2311249-02E

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#### 11.0 Photo of testing

#### 11.1 Conducted test View



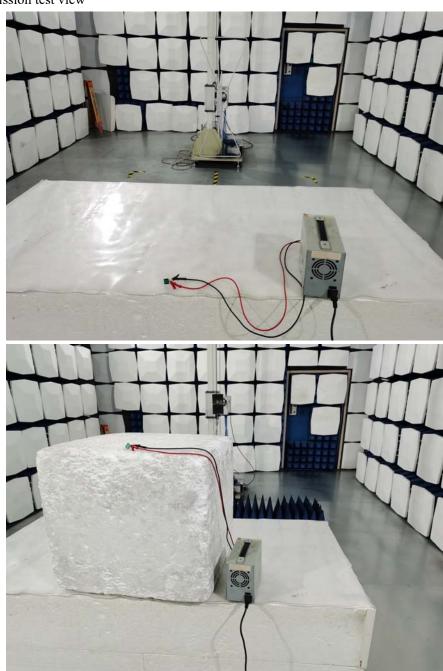
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#### Radiated emission test view

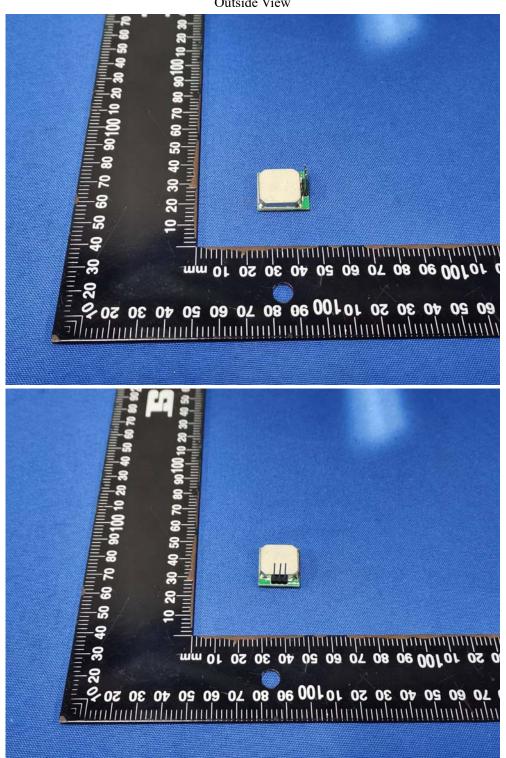


Date: 2023-12-26



#### Photographs – EUT

Outside View



The report refers only to the sample tested and does not apply to the bulk.

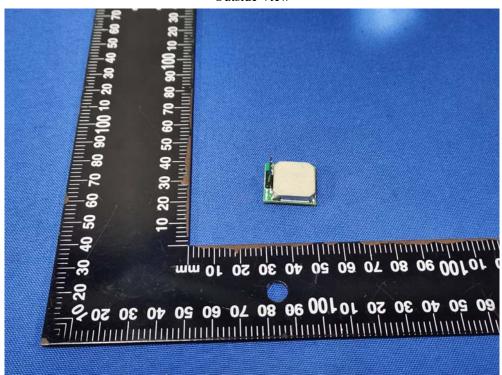
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Outside View



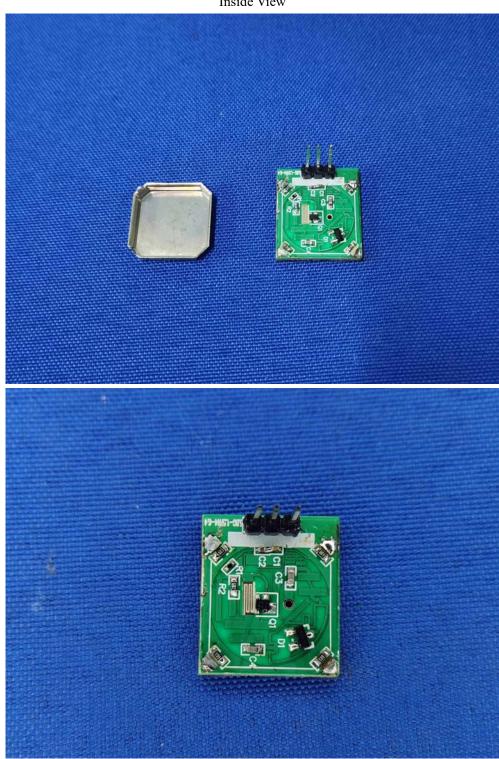
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Inside View



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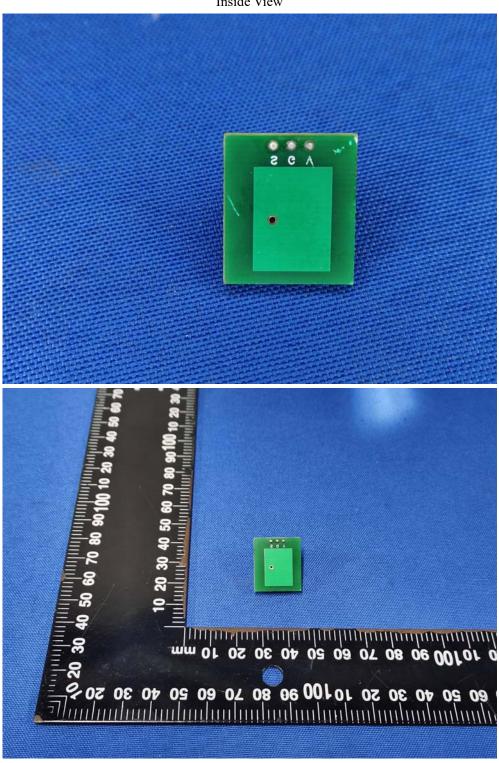
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Inside View



-- End of the report--

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