EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.

FCC TEST- REPORT

TEST REPORT NUMBER: EFGX25070372-IE-03-E01
FCC ID: VG8TM934DYY

eurofins
Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.
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1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd. is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

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Operator

Date	Eurofins-Lab.	Name / Title	Signature
2025-07-28		John Wen / Project Engineer	John Wen

Technical responsibility for area of testing:

Date	Eurofins-Lab.	Name / Title	Signature
2025-07-28		Albert Xu / EMC&RF Manager	Albert Xu

1.2 Testing laboratory

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1.3 Details of applicant

Name	:	Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd
Address	:	No.6, Yong An Road, Beijiao, Shunde, Foshan, China
Telephone	:	./.
Fax	:	./.

1.4 Details of manufacturer

Name	:	Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd
Address	:	No.6, Yong An Road, Beijiao, Shunde, Foshan, China
Telephone	:	./.
Fax	:	./.

1.5 Application details

Date of receipt of application	:	2025-07-21
Date of receipt of test item	:	2025-07-21
Date of test	:	2025-07-21 to 2025-07-24
Date of issue	:	2025-07-28

1.6 Test item

Product type	:	Microwave Oven
Model name	:	EM934D##-SH0D, EM934D***-SH0D, EM934D##-S00D, EM934D***-S00D, TM934D##-SHND, TM934D***-SHND, TM934D##-S0ND, TM934D***-S0ND, TM934D##-SH0D, TM934D***-SH0D, TM934D##-S00D, TM934D***-S00D
Brand name	:	Midea
Sample ID	:	250721-39-001
Ratings	:	Power Supply： 120VAC/60Hz Rated Input Power (Microwave)：1500W Rated output Power(microwave)：900W Frequency：2450MHz
Test voltage	:	120V~, 60Hz
Additional information	:	
Magnetron Model	:	2M539H
Magnetron Manufacturer	:	WITOL

EM934D##-SH0D, EM934D***-SH0D, EM934D##-S00D, EM934D***-S00D, TM934D##-SHND, TM934D***-SHND, TM934D##-S0ND, TM934D***-S0ND, TM934D##-SH0D, TM934D***-SH0D, TM934D##-S00D, TM934D***-S00D model designations as follow:
E: Indicates film type keypad; T: Touch type keypad;
M: Indicates microwave function;
934: "9" indicates the microwave output power is 900W, "34" indicate cavity capacity is 34 liters;
D: Indicates the design No.;
or ***: "#" "*"= 0-9, A-Z or blank, indicates different appearance;
-S: Stainless Cavity; H: Humidity;
First "0": Circuit change sequence; Second "0": 24 inches;
N: 30 inches; D: Stands for 120V/60Hz.
All the above-mentioned models are identical to Midea model TM934D3ZL-SHND except for model name and appearance.
The model of **TM934D3ZL-SHND** was selected for the final testing.

(General disclaimer:
The above sample(s) and sample information was/were submitted and identified on behalf of the applicant.
Eurofins assures objectivity and impartiality of the test, and fulfills the obligation of confidentiality for appli-cant's commercial information and technical documents.)

1.7 Test standards

FCC 47 CFR Part 18
FCC/OET MP-5

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

or

The deviations as specified were ascertained in the course of the tests performed. ☐

2.2 Test environment

Temperature	: 15	…	35°C
Relative humidity content	: 30	…	60%
Air pressure	: 86	…	103kPa

2.3 Test mode

TM1: Normal operation

2.4 Test equipment utilized

EQUIPMENT ID	EQUIPMENT NAME	MODEL NO.	CAL. DUE DATE
23-2-13-01	EMI Test Receiver	ESR7	2026-03-24
23-2-13-02	Signal Analyzer	N9020B-544	2026-03-24
23-2-12-01	Active Loop Antenna	FMZB 1519B	2026-05-09
23-2-12-02	TRILOG Broadband Antenna	VULB9168	2026-06-02
23-2-12-03	Horn Antenna	3117	2026-06-02
23-2-10-01	Preamplifier	BBV9745	2026-03-24
23-2-10-02	Preamplifier	TAP01018048	2026-03-24
23-2-10-14	Switch and Control Unit	ERIT-E-JS0806-SF1	N/A
23-2-19-001	3m chamber 1	ETS-Lindgren	2026-03-23
23-2-13-03	EMI Test Receiver	ESR7	2026-03-24
23-2-13-04	Signal Analyzer	N9020B-526	2026-03-24
23-2-12-06	Active Loop Antenna	FMZB 1519B	2026-06-02
23-2-12-07	TRILOG Broadband Antenna	VULB9168	2026-05-08
23-2-12-08	Horn Antenna	3117	2026-05-08
23-2-10-46	Preamplifier	BBV9745	2026-03-24
23-2-10-47	Preamplifier	TAP01018048	2026-03-24
23-2-10-15	Switch and Control Unit	ERIT-E-JS0806-SF1	N/A
23-2-19-002	3m chamber 2	ETS-Lindgren	2026-03-23
23-2-13-05	EMI Test Receiver	ESR3	2026-03-24
23-2-13-06	LISN	NNLK 8127 RC	2026-03-24
23-2-10-16	Attenuator	VTSD 9561-F	2026-03-24
23-2-19-005	Shielded Room 2	ETS-Lindgren	2026-03-21
23-2-13-16	Harmonic&Flicker test system	100C-CTS-230	2026-03-26
23-2-13-17	Harmonic&Flicker test system	5001iX-CTS-400	2026-03-25
23-1-03-013	Digital thermometer	51-II	2026-03-24
23-1-16-008	Microwave Survey Meter	ML-91VA	2025-11-05

2.5 Measurement uncertainty

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 9kHz-30MHz	4.56dB
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.56dB; Vertical: 4.55dB;
Uncertainty for Radiated Emission in 3m chamber 1000MHz-18000MHz	Horizontal: 4.22dB; Vertical: 4.21dB;
Uncertainty for Conducted Emission 9kHz-30MHz	1.96dB

2.6 Test results

☒ 1st test ☐ test after modification ☐ production test

Test case	Subclause	Required	Test passed	Test failed
Conducted Emission	FCC Part 18.307 (b)	☒	☒	☐
Radiated Emission	FCC Part 18.305 (b)	☒	☒	☐
Operating frequencies	FCC Part 18.301	☒	☒	☐
Power output measurement	FCC/OET MP–5 Clause 4.3	☒	☒	☐
Radiation hazard test	FCC/OET MP–5 Clause 3.1	☒	☒	☐

3 Test Requirements

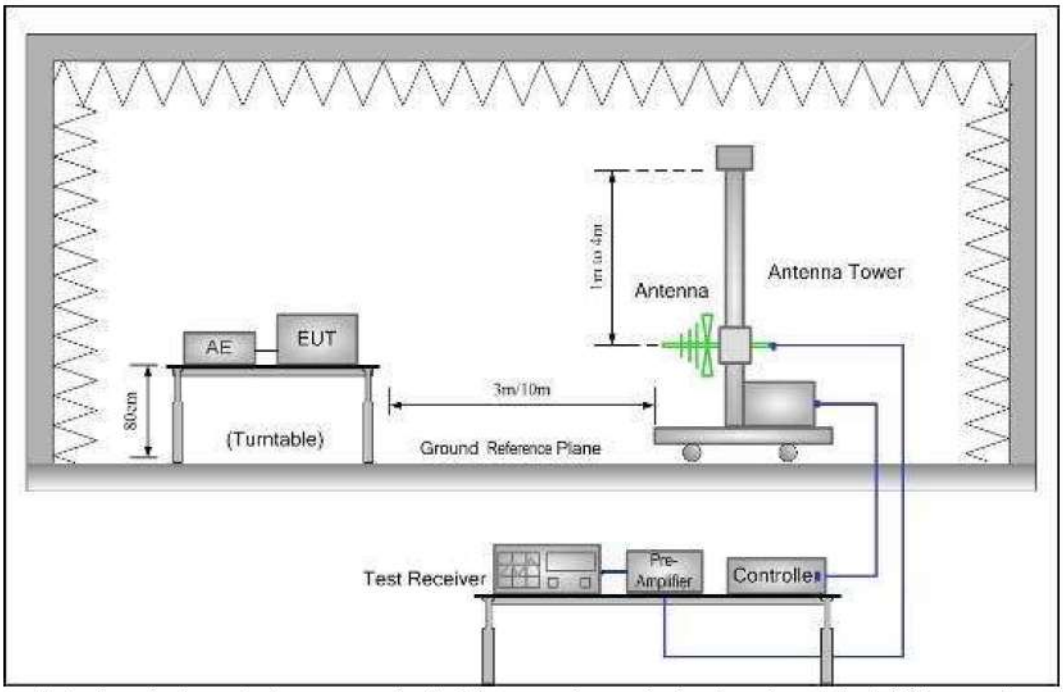
3.1 Radiated emission

This clause lays down the general requirements for the measurement of Radiated disturbance produced at the space of apparatus.

3.1.1 Limits

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit dB (μV/m) @ 3m
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	828.27	1693.91

3.1.2 Measurement procedure



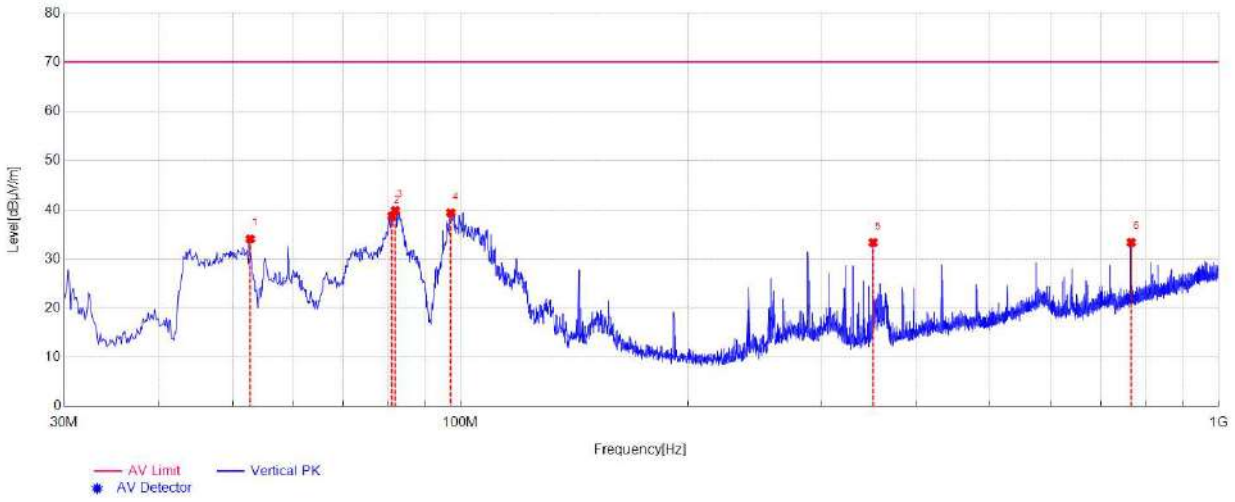
1. The radiated emissions test was conducted in a semi-anechoic chamber. The EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
2. Before get the final emission results with average (AV) detector, a pre-scan was performed with the peak(PK) detector to find out the maximum emission data plots of the EUT.
3. The frequencies of maximum emission were determined in the final radiated emissions measurement, the physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization. Test was performed at 3 m distance.

3.1.3 Test environment

Temperature : 24.8 °C
Relative humidity content : 58.6 %
Air pressure : 100.5 kPa

3.1.4 Results

Below 1GHz



PK Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	52.7950	34.10	-16.58	70.15	36.05	100	177	Vertical	PASS
2	81.1675	38.74	-20.03	70.15	31.41	100	232	Vertical	PASS
3	82.0162	39.92	-20.11	70.15	30.23	100	220	Vertical	PASS
4	97.0512	39.43	-20.18	70.15	30.72	100	217	Vertical	PASS
5	350.706	33.34	-15.31	70.15	36.81	200	223	Vertical	PASS
6	767.563	33.37	-5.69	70.15	36.78	100	205	Vertical	PASS

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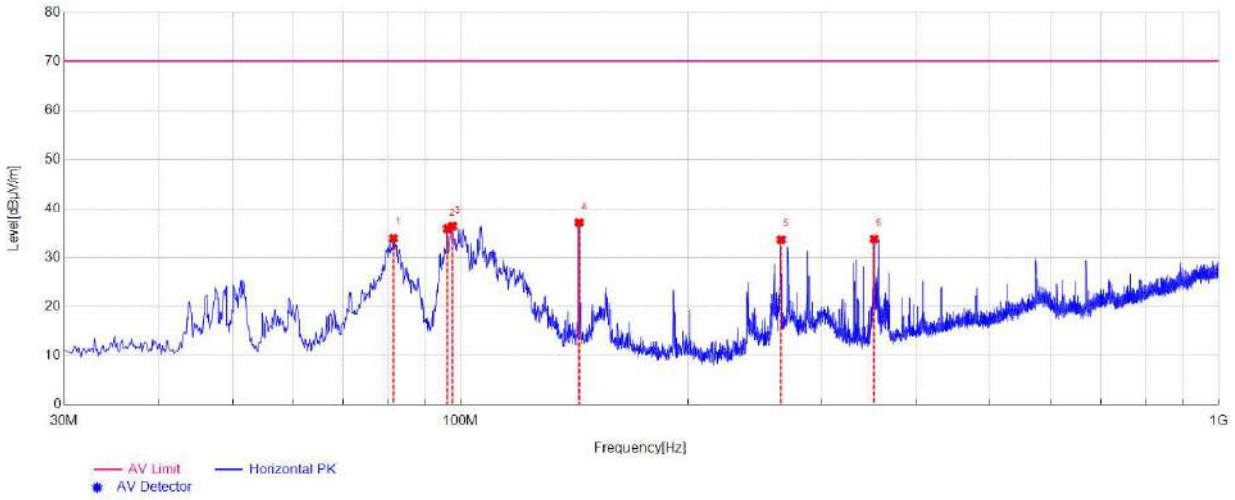
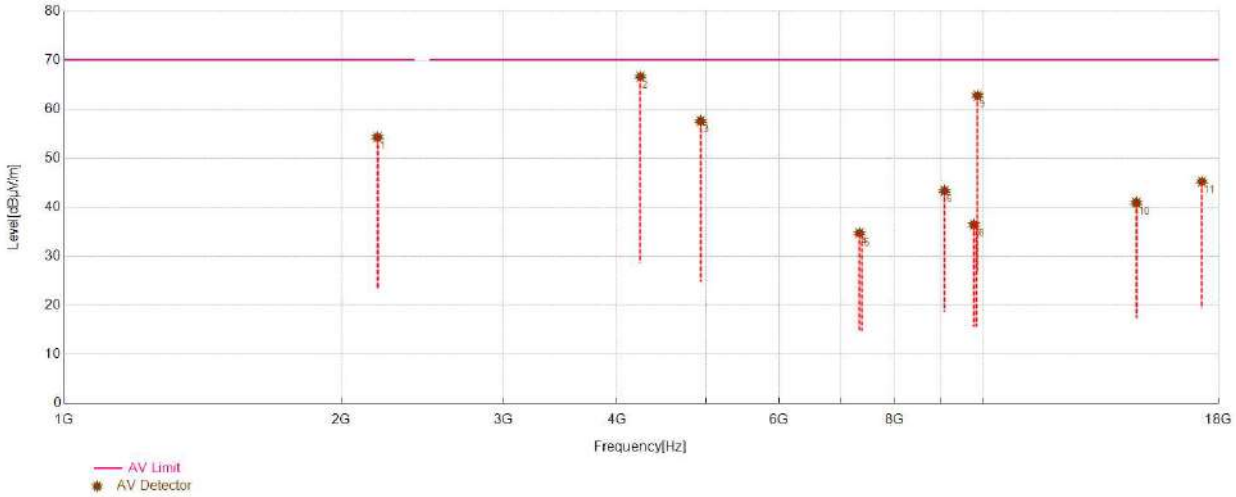
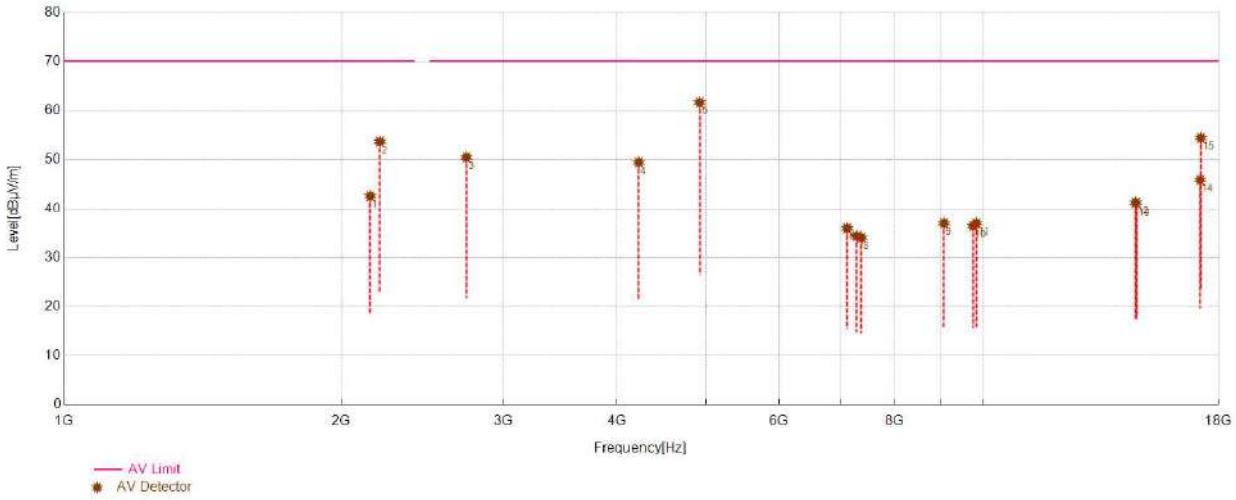


PK Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	81.5312	33.90	-20.06	70.15	36.25	200	290	Horizontal	PASS
2	96.0812	35.83	-20.17	70.15	34.32	200	307	Horizontal	PASS
3	97.5362	36.39	-20.18	70.15	33.76	200	134	Horizontal	PASS
4	143.732	37.12	-16.50	70.15	33.03	200	277	Horizontal	PASS
5	265.346	33.62	-17.30	70.15	36.53	100	217	Horizontal	PASS
6	351.918	33.77	-15.22	70.15	36.38	100	177	Horizontal	PASS

Above 1GHz



Final Data List									
NO.	Freq. [MHz]	Factor [dB/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2190.9681	6.45	54.36	70.15	15.79	200	271.3	Horizontal	PASS
2	4241.1942	-15.60	66.68	70.15	3.47	122.1	162.5	Horizontal	PASS
3	4931.4822	-13.65	57.66	70.15	12.49	199.7	72.2	Horizontal	PASS
4	7335.315	-9.75	34.70	70.15	35.45	123.7	41	Horizontal	PASS
5	7380.4428	-9.96	34.32	70.15	35.83	100.8	65	Horizontal	PASS
6	9072.114	-7.67	43.30	70.15	26.85	198.9	296.2	Horizontal	PASS
7	9765.8163	-6.34	36.40	70.15	33.75	178.4	241.2	Horizontal	PASS
8	9827.1155	-6.28	36.50	70.15	33.65	105.2	108.7	Horizontal	PASS
9	9855.161	-6.03	62.82	70.15	7.33	103.9	317.3	Horizontal	PASS
10	14653.5345	0.49	40.88	70.15	29.27	137.6	161.7	Horizontal	PASS
11	17269.3421	4.44	45.23	70.15	24.92	158.7	196.8	Horizontal	PASS



Final Data List									
NO.	Freq. [MHz]	Factor [dB/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2152.4766	6.83	42.61	70.15	27.54	112.6	237.5	Vertical	PASS
2	2204.0665	6.22	53.70	70.15	16.45	198.9	20.1	Vertical	PASS
3	2736.9304	7.83	50.49	70.15	19.66	153.3	187.6	Vertical	PASS
4	4222.6851	-15.58	49.48	70.15	20.67	100	67.5	Vertical	PASS
5	4918.7385	-13.59	61.68	70.15	8.47	151.4	200.9	Vertical	PASS
6	7113.2626	-10.31	35.92	70.15	34.23	182.4	311	Vertical	PASS
7	7288.3068	-9.73	34.35	70.15	35.80	114	31.8	Vertical	PASS
8	7368.7234	-9.92	34.00	70.15	36.15	198.9	353.6	Vertical	PASS
9	9058.3617	-7.67	36.97	70.15	33.18	100	250.3	Vertical	PASS
10	9743.705	-6.31	36.39	70.15	33.76	162.9	171.2	Vertical	PASS
11	9826.0905	-6.35	36.95	70.15	33.20	151.1	221.8	Vertical	PASS
12	14634.1439	0.34	41.27	70.15	28.88	193.3	140	Vertical	PASS
13	14679.8099	0.63	40.84	70.15	29.31	138.3	0	Vertical	PASS
14	17190.5598	4.37	45.91	70.15	24.24	160.6	30.6	Vertical	PASS
15	17221.2822	4.13	54.45	70.15	15.70	107.6	174.5	Vertical	PASS

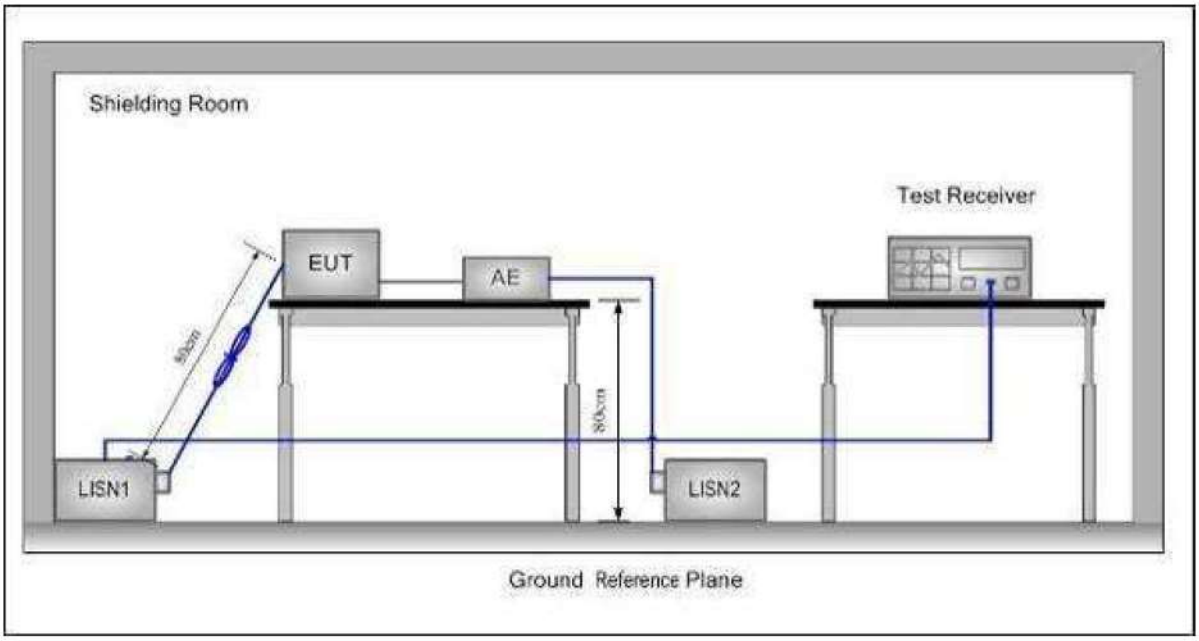
3.2 Conducted Emission

This clause lays down the general requirements for the measurement of disturbance voltage produced at the terminals of apparatus.

3.2.1 Limits

Frequency range MHz	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50
* Decreases with the logarithm of the frequency.		

3.2.2 Measurement procedure

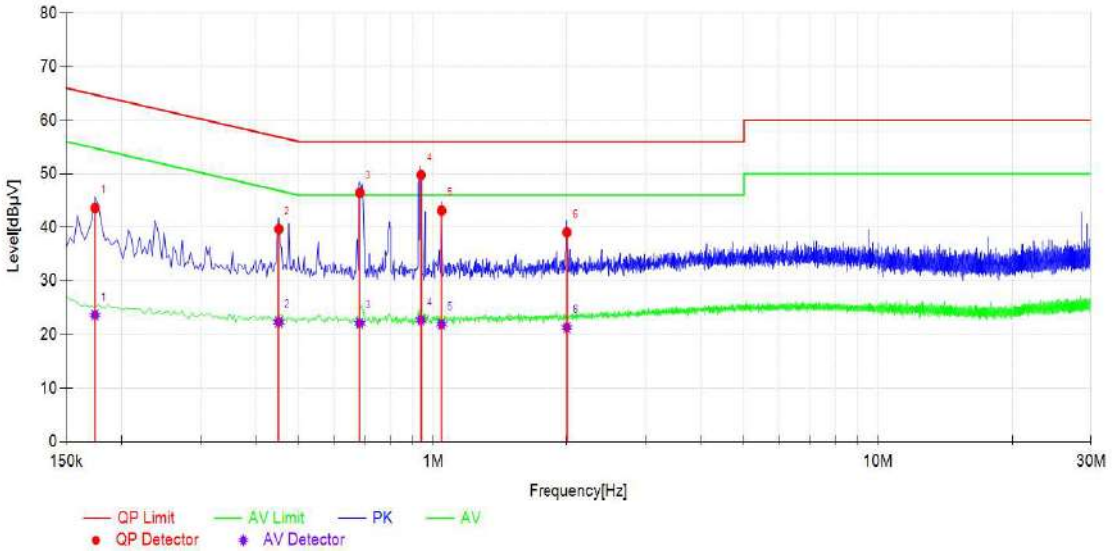


1. The mains terminal disturbance voltage was measured with the EUT in a shielded room.
2. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a (50 μH + 5 Ω) || 50 Ω linear impedance. The power cables of all other units of the EUT was connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured.
3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.

3.2.3 Test environment

Temperature : 25.8 °C
Relative humidity content : 55.8 %
Air pressure : 100.5 kPa

3.2.4 Results



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Line	Verdict
1	0.174	10.30	43.63	64.77	21.14	23.62	54.77	31.15	L1	PASS
2	0.45	10.27	39.68	56.88	17.20	22.34	46.88	24.54	L1	PASS
3	0.684	10.26	46.43	56.00	9.57	22.13	46.00	23.87	L1	PASS
4	0.939	10.34	49.77	56.00	6.23	22.72	46.00	23.28	L1	PASS
5	1.044	10.36	43.14	56.00	12.86	21.93	46.00	24.07	L1	PASS
6	2.004	10.28	39.10	56.00	16.90	21.31	46.00	24.69	L1	PASS

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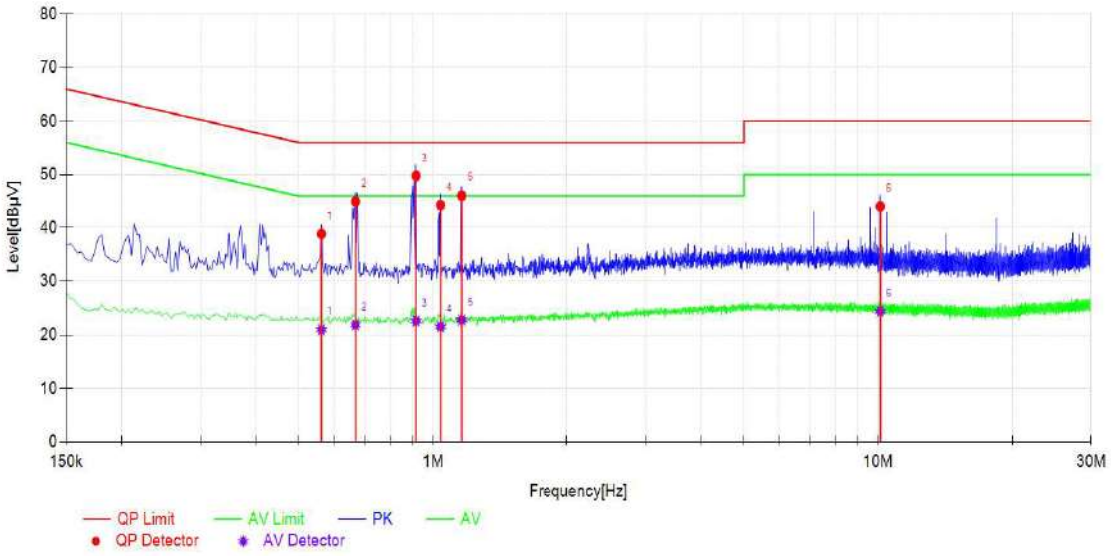

Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Line	Verdict
1	0.561	10.25	38.84	56.00	17.16	20.97	46.00	25.03	N	PASS
2	0.669	10.26	45.01	56.00	10.99	21.85	46.00	24.15	N	PASS
3	0.915	10.26	49.80	56.00	6.20	22.60	46.00	23.40	N	PASS
4	1.038	10.26	44.35	56.00	11.65	21.53	46.00	24.47	N	PASS
5	1.158	10.28	46.13	56.00	9.87	22.76	46.00	23.24	N	PASS
6	10.111	10.44	44.11	60.00	15.89	24.36	50.00	25.64	N	PASS

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3.3 Operating frequencies

To evaluate the frequency stability of the EUT under different thermal and voltage conditions, in accordance with FCC/OST MP-5 Sections 4.1, 4.2, and 4.5.

3.3.1 Limits

2450 MHz ± 50.0 MHz

3.3.2 Measurement procedure

(a) The variation of frequency with time, using the load as specified in Section 4.1 of FCC/OST MP-5, starting with the EUT and load at room temperature and continuing until the load quantity has been reduced by evaporation to approximately 20% of the original quantity. This test is conducted with nominal rated AC supply voltag.

(b) The variation of frequency for line voltage variation from 80% to 125% of the nominal rated voltage, starting with the EUT warmed up by at least 10 minutes of operation, using a load as specified in Section 4.1 of FCC/OST MP-5, and with this load at room temperature at the beginning of the test.

3.3.3 Test environment

Temperature	: 24.8 °C
Relative humidity content	: 58.6 %
Air pressure	: 100.5 kPa

3.3.4 Results

Operating Mode	Start Frequency (MHz)	Stop Frequency (MHz)
Normal Voltage	2400	2500
Line Voltage	2400	2500

3.4 Power output measurement

To evaluate the RF power output and AC input power of the microwave oven under typical operating conditions, in accordance with FCC/OST MP-5 Section 4.3.

3.4.1 Measurement procedure

The RF output power was determined using the calorimetric method, by measuring the temperature rise of the load specified in Section 4.1 of FCC/OST MP-5 over a defined time interval.

The AC power input to the EUT was measured simultaneously, to verify that the device operates within the parameters specified by the manufacturer.

The microwave power output is calculated from the formula

$$P = \frac{4{,}187 \cdot m_w(T_1 - T_0) + 0{,}55 \cdot m_c(T_1 - T_A)}{t}$$

where

P is the microwave power output (W);
m_w is the mass of the water (g);
m_c is the mass of the container (g);
T_A is the ambient temperature (℃);
T_0 is the initial temperature of the water (℃);
T_1 is the final temperature of the water (℃);
t is the heating time (s), excluding the magnetron filament heating-up time.

The microwave power output is stated in watts, rounded to the nearest 50 W.

3.4.2 Test environment

Temperature : 25.9 °C
Relative humidity content : 58.1 %
Air pressure : 99.9 kPa

3.4.3 Results

m_w (g)	m_c (g)	T_A (℃)	T_0 (℃)	T_1 (℃)	t (S)	Output Power (W)	AC Input Power (W)
1000	58.4	25.9	9.5	21.6	61	828.27	1693.91

3.5 Radiation hazard test

This test is made primarily to assure that personnel will not be exposed to radiation hazard in testing the equipment.

3.5.1 Limits

1.00 mW/cm^2

3.5.2 Measurement procedure

Microwave leakage was measured using a calibrated leakage detector at a distance of 5 cm from the EUT surface, while the device was operating at full power with a standard load as specified in FCC/OST MP-5 Section 4.1. Scanning was performed along door seals, control panel, and vents.

3.5.3 Test environment

Temperature	: 25.8 °C
Relative humidity content	: 55.8 %
Air pressure	: 100.5 kPa

3.5.4 Results

Maximum Emission (mW/cm^2)	Limit (mW/cm^2)	Result
0.51	1.00	PASS

4 Test Setup Photos

Radiated emission below 1GHz test setup

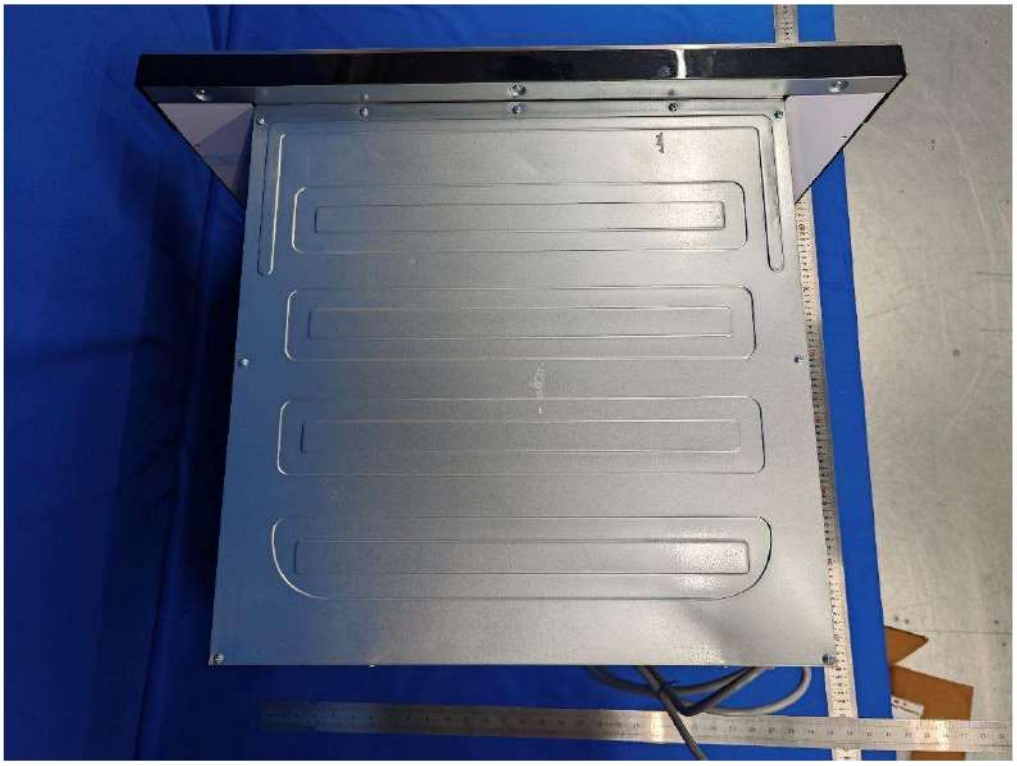
Radiated emission above 1GHz test setup

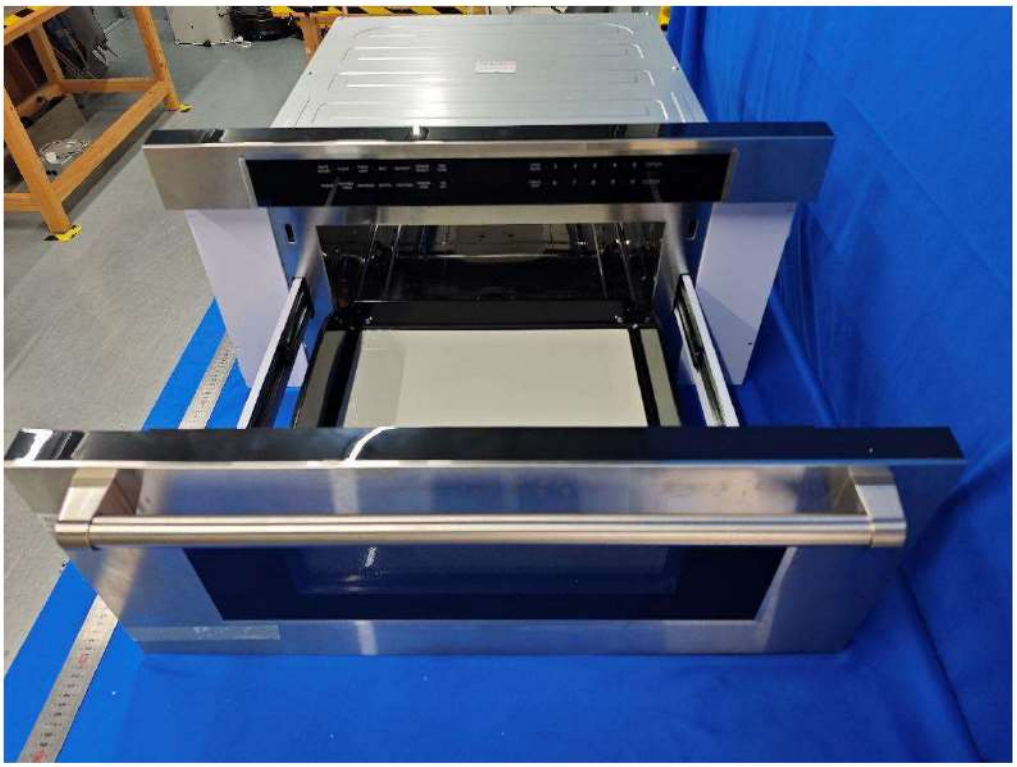
Conducted emission test setup

Power output test setup

Radiation hazard test setup

5 External Photo





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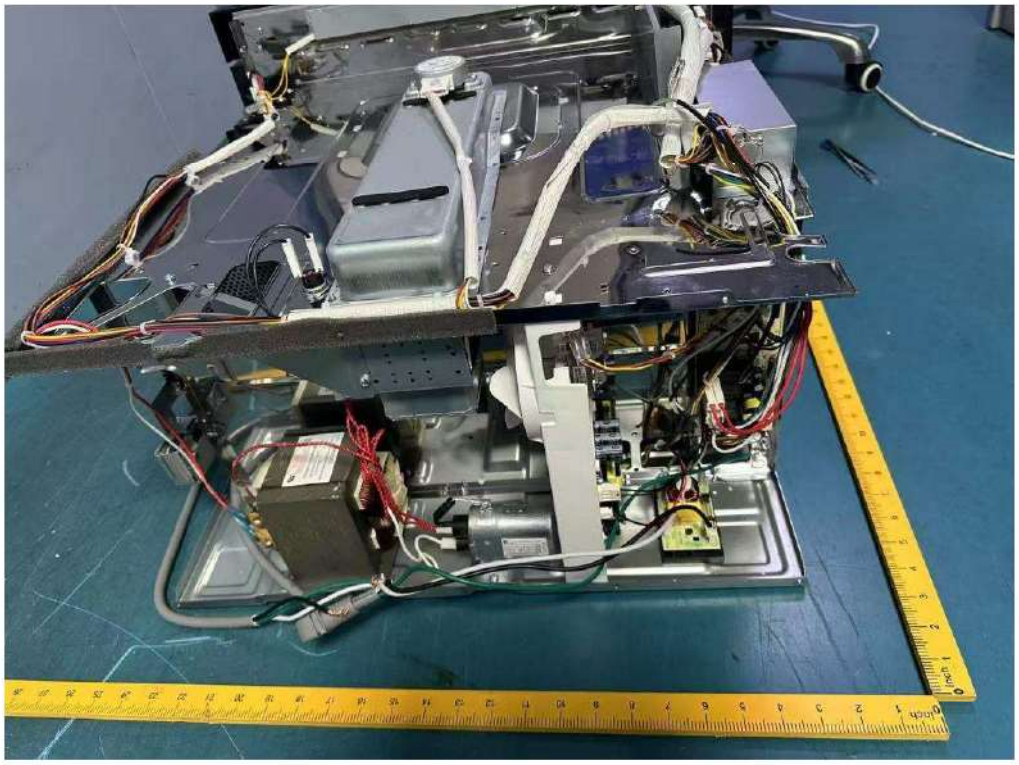
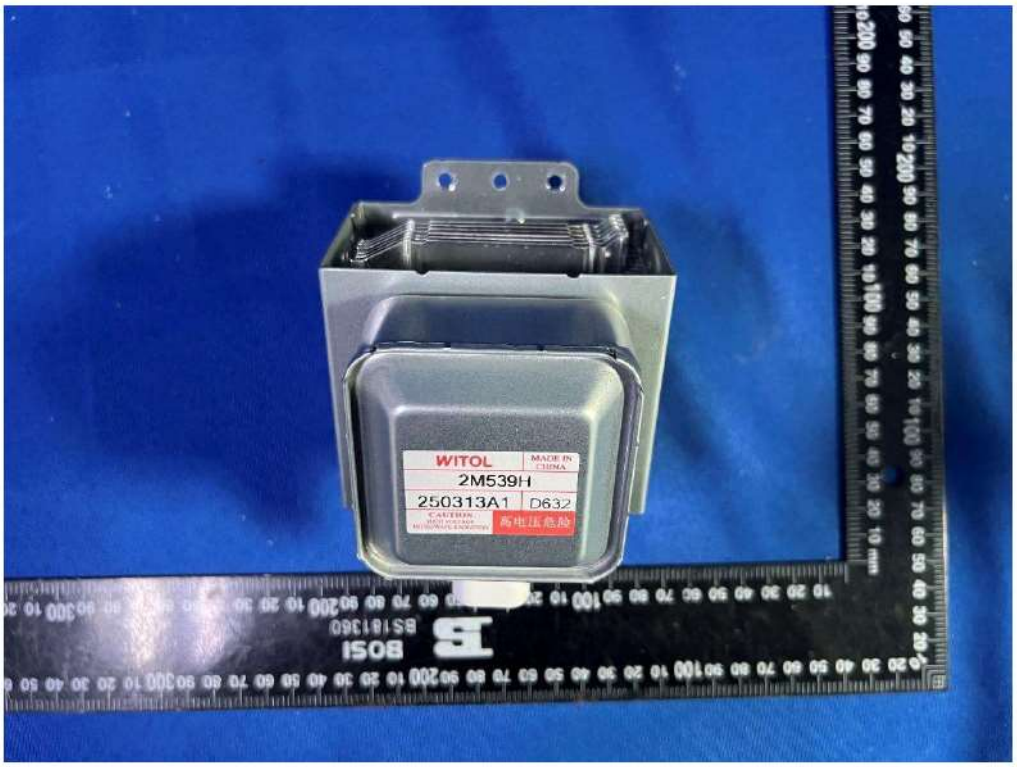
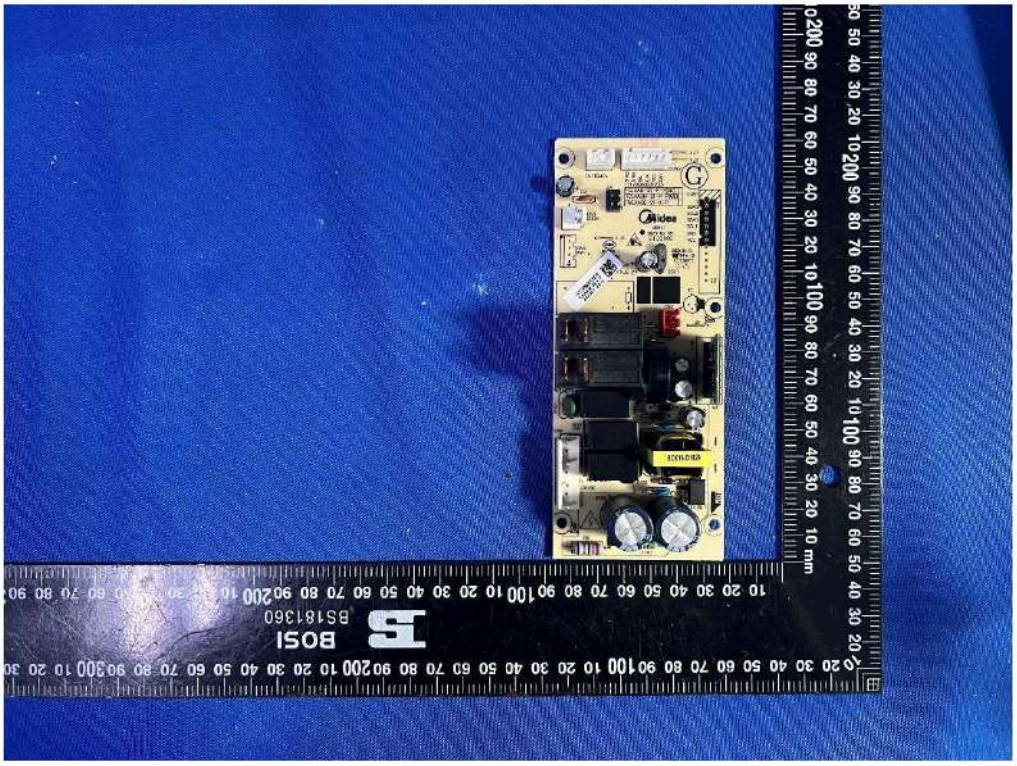
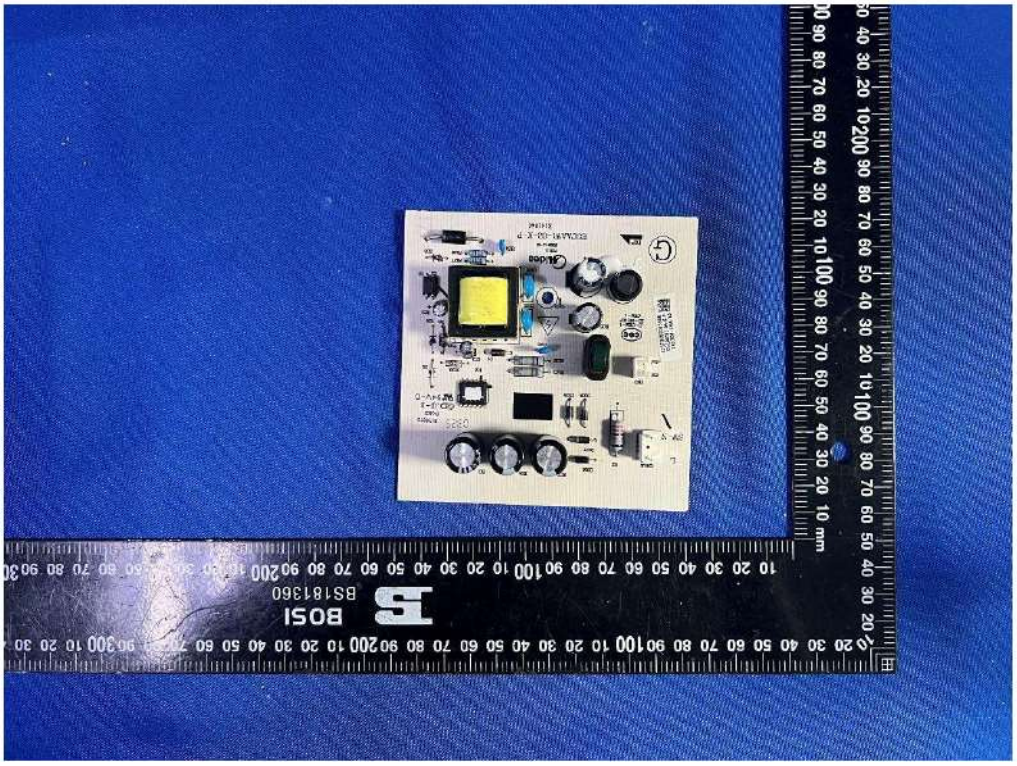
No.83, Dabao Road, Bao'an District, Shenzhen, Guangdong, China

6 Internal Photos





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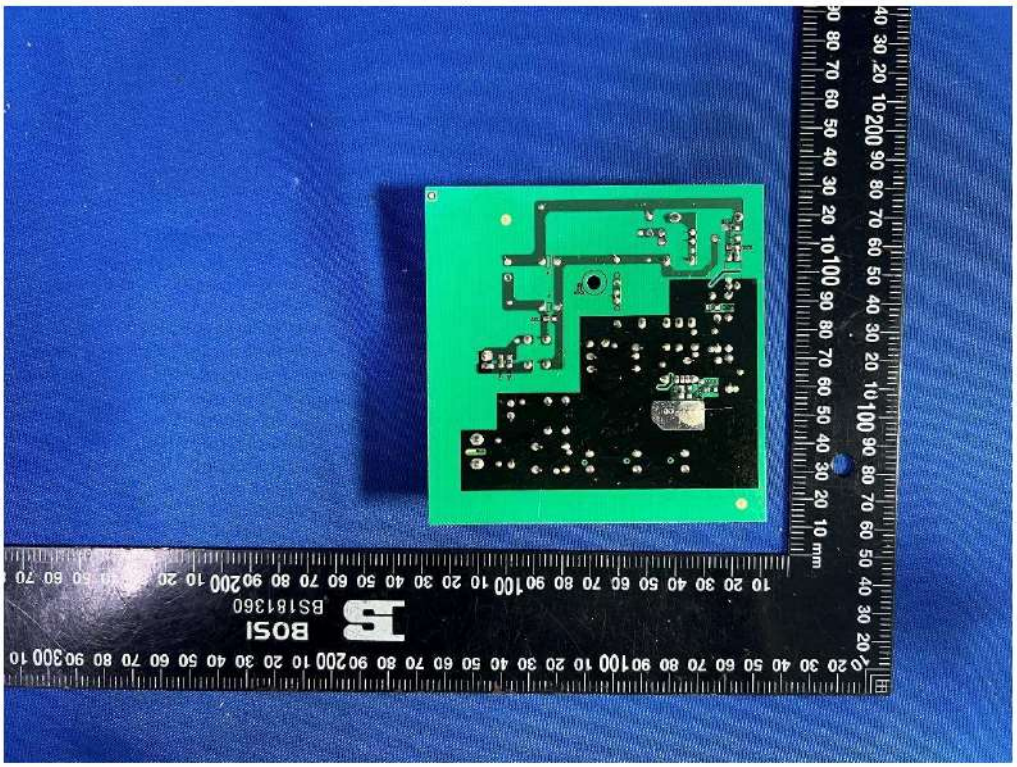
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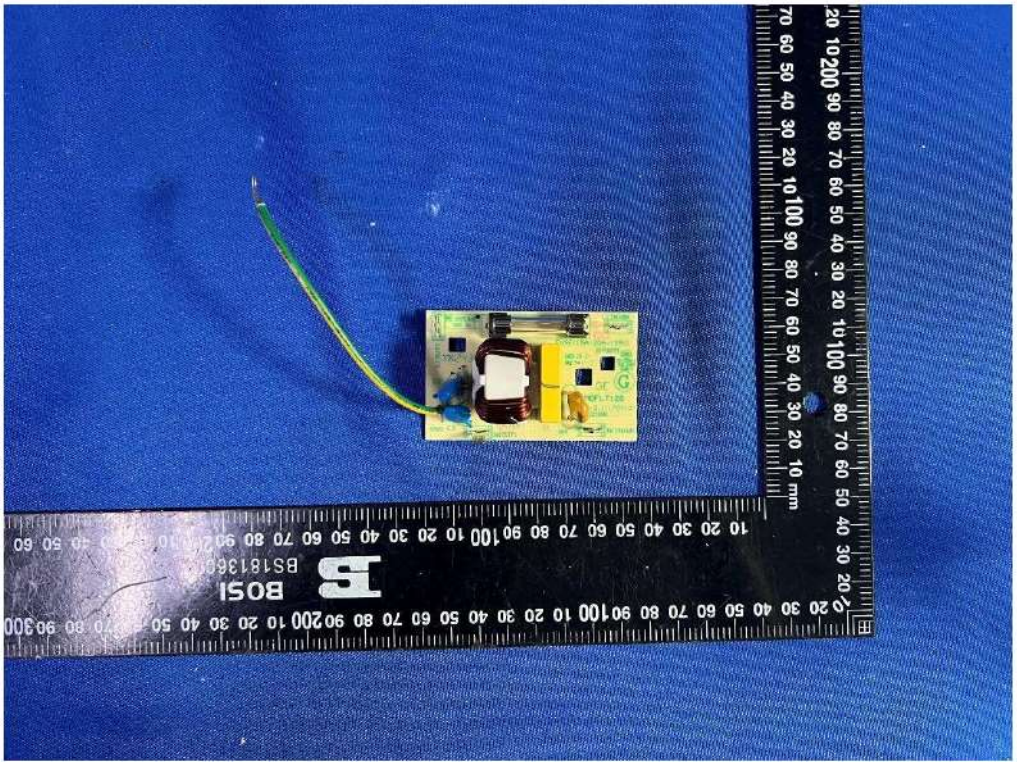

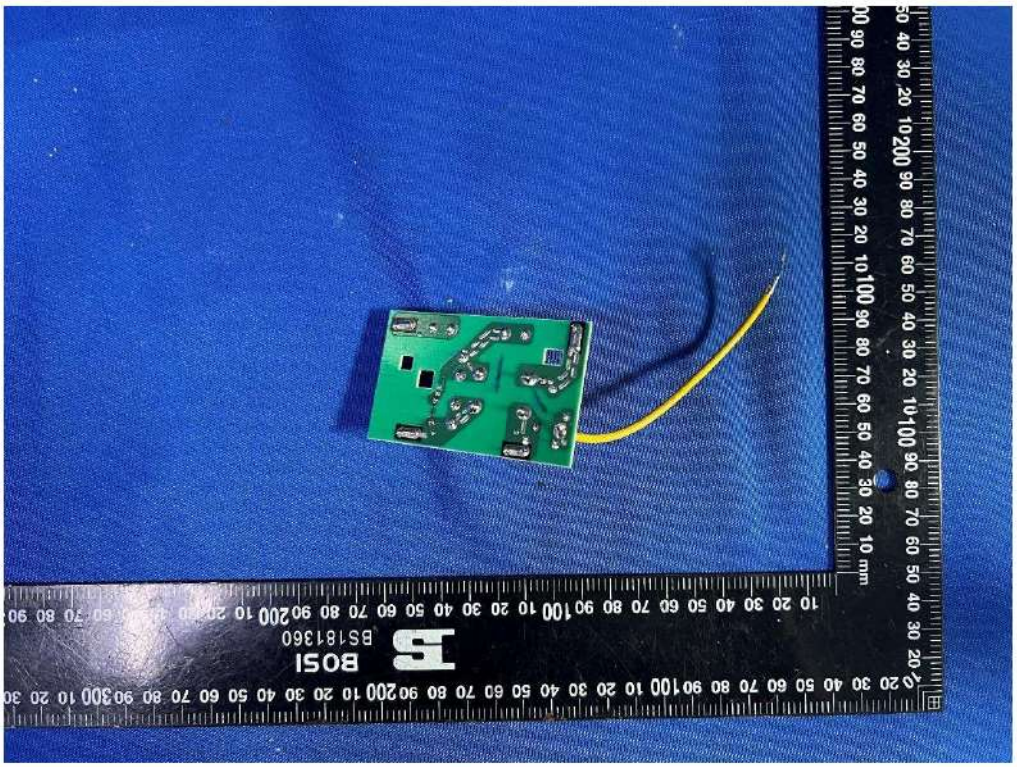

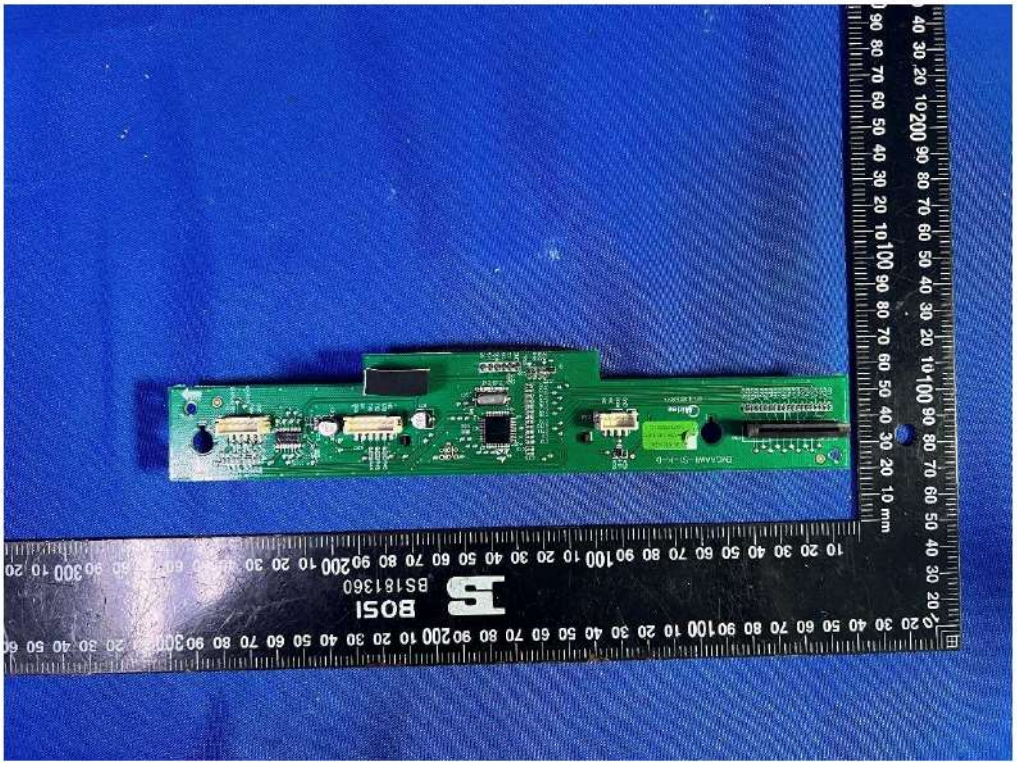

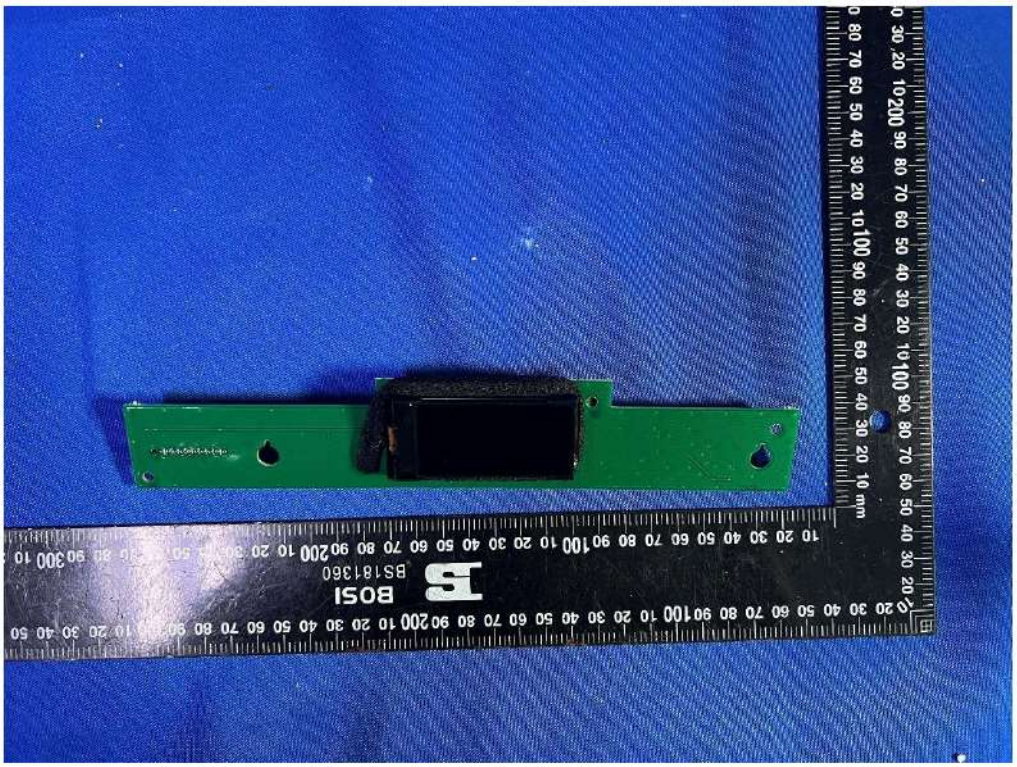

--End of report--

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