

Report No.: 20240917G17204X-E

FCC PART18 TEST REPORT

Report No.: 20240917G17204X-E

Product Name: Microwave Oven

Trade Name: Midea, TOSHIBA

Model No.: XM262AYY-P(E), XM262AYYY-P(E), FGMO226NUF, FGMO226NUD,

FPMO227NUF, ML2-EM62PA(SS), ML-EM62P(SS), WSN-EM20AST

FCC ID: VG8XM262AYY

Applicant: Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd

Received Date: 2024.09.02

Test Data: 2024.09.02-2024.09.05

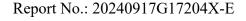
Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43, ShaheRoad, Xili Street, Nanshan District,

Shenzhen, Guangdong, China

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Test Report

Product Name: Microwave Oven

XM262AYY-P(E), XM262AYYY-P(E),

Model No.: FGMO226NUF, FGMO226NUD, FPMO227NUF,

ML2-EM62PA(SS), ML-EM62P(SS), WSN-EM20AST

Trade name: Midea, TOSHIBA

Applicant: Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd.

Applicant Address: No.6, Yong An Road, Beijiao, Shunde, Foshan, China

Manufacturer: Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd.

Manufacturer Address: No.6, Yong An Road, Beijiao, Shunde, Foshan, China

Test Standards: 47 CFR Part 18

Test Result: PASS

Tested by: Sun Jiaohui
Sun Jiaohui, Test Engineer

Sun Jiaohui, Test Engineer 2024.09.06

Reviewed by: Chris You

Chris You, Senior Engineer 2024.09.06

Wang Shijie

Approved by: 2024.09.06

Wang Shijie, Manager



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| | Change History | | | | | |
|------------------------------|----------------|--|--|--|--|--|
| Issue Date Reason for change | | | | | | |
| 1.0 2024.09.06 First edition | | | | | | |
| | | | | | | |
| | | | | | | |





1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

EUT Name: Microwave Oven
Trade Name ...: Midea, TOSHIBA

Model.....: XM262AYY-P(E), XM262AYYY-P(E), FGMO226NUF,

FGMO226NUD, FPMO227NUF, ML2-EM62PA(SS), ML-EM62P(SS), WSN-EM20AST model designations as

follows:

X=A or E, indicates controller Type; M: indicates microwave function;

262: "2" indicates the microwave output power is 1200W, "62"

indicates cavity capacity is 62 liters;

A: indicates the design No.;

YY/YYY: "Y" indicates different appearance and color;

-P/-E: Indicates various painted capacity;

All models are identical to Midea model EM262A2MY-P except

for model name and trade mark and appearance.

Model of EM262A2MY-P was chosen for the final testing.

Power Supply: 120VAC/60Hz

Rated input Power(microwave): 1700W Rated output Power(microwave): 1200W

Frequency....: 2450MHz(ClassB/Group 2)

Magnetron Model.....: 2M248J Magnetron Manufacturer ...: WITOL

Description of Support Units: -Load for power output measurement: 1200 milliliters of water in

the beaker located in the center of the oven.

-Load for frequency measurement: 1200 milliliters of water in

the beaker located in the center of the oven.

-Load for measurement of radiation on second and third harmonic: Two loads, one of 840 and the other of 360 milliliters, of water are used. Each load is tested both with the beaker located in the center of the oven and with it in the right front

corner.

-Load for all other measurements: 840 milliliters of water, with

the beaker located in the center of the oven.



- Note 1: The EUT have the following typical setups during the test:
 - Setup1: Microwave heating mode(According to FCC PART 18);
- *Note 2:* For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.
- *Note 3*: This is an updating report based the original report #: "GUA-2406-13850-FCC" which was re-tested on September 2nd, 2024 to September 5th, 2024. Differences between them are as follow:
- 1. Difference in appearance & construction & PCB:

| No.: | Original | New | Difference(s) |
|------|----------------|---|---|
| 1 | | Formal Formal Service | Keypad: Updated front keypad to accommodate child lock function (Child resistant oven door function) |
| 2 | | | Mother board: Modified the peripheral circuit (non-RF circuit) and some individual components and PCB layout. The magnetron |
| | | | and other circuit are exactly same as before. |
| 3 | Not Applicable | | The new one adds a solenoid valve locking mechanism, but the original is not. |

2. Others are the same as before.



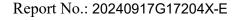
1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 18:

| No. | Identity | Document Title | |
|-----|----------------|-------------------------|--|
| 1 | 47 CFR Part 18 | Radio Frequency Devices | |

Test detailed items/section required by FCC rules and results are as below:

| Emission | | | | | |
|---------------------------------------|--|-----------|------|--|--|
| Standard Item Class / Severity Result | | | | | |
| 47 CED DA DE 10 | Conducted Emission (150 kHz to 30 MHz) | 18.307(b) | PASS | | |
| 47 CFR PART 18 | Radiated Emission (30 MHz to1 GHz) | 18.305(b) | PASS | | |





1.3 Facilities and Accreditations

1.3.1 Facilities

CNAS-Lab Code: L1659

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

FCC-Registration No.: CN1283

CCIC Southern Testing Co., Ltd 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. Designation Number: CN1283, valid time is until Jun 30, 2025.

ISED Registration: 11185A-1

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Jun 30, 2025.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17 025. The accreditation certificate number is 5721.01.

1.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

| Temperature (°C): | 15°C-35°C |
|-----------------------------|--------------|
| Relative Humidity (%): | 25% -75% |
| Atmospheric Pressure (kPa): | 86kPa-106kPa |





1.3.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

| Uncertainty of Conducted Emission: | Uc = 3.2 dB (k=2) |
|---|---------------------|
| Uncertainty of Radiated Emission:(30MHz~1GHz) | Uc = 5.8 dB (k=2) |
| Uncertainty of Radiated Emission:(1~18GHz) | Uc = 5.1 dB (k=2) |
| Radiation Hazard Measurement | Uc = 2.4 dB (k=2) |

2. EQUIPMENTS LIST

A. Equipment List:

| Description | Manufacturer | Model | Serial No. | Calibration Date | Calibration Due. Date |
|--------------------------|-------------------|---------------------------|------------|---------------------|-----------------------|
| Test Receiver | Rohde & Schwarz | ESR3 | A181103297 | 2024.03.20 | 2025.03.19 |
| LISN | ROHDE&SCHWARZ | NSLK 8127 | A210803670 | 2024.05.24 | 2025.05.23 |
| Shield Room | Xinju Electronics | L9000*W4500* H3100 | A181003230 | 2023.07.30 | 2026.07.29 |
| EMI Test Receiver | ROHDE&SCHWARZ | ESIB7 | A0501375 | 2024.02.28 | 2025.02.28 |
| Broadband Ant. | ETC | MCTD2786 | A150402240 | 2024.06.01 | 2025.05.31 |
| 3M Anechoic Chamber | Albatross | SAC-3MAC 9*6*6m | A0412375 | 2024.02.27 | 2027.02.27 |
| EMI Test Receiver | ROHDE&SCHWARZ | ESW26 | A180502935 | 2024.05.24 | 2025.05.23 |
| 5M Anechoic Chamber | Albatross | SAC-5MAC 12.8x6.8x6.4m | A0304210 | 2023.08.02 | 2026.08.01 |
| EMI Horn Ant. | ETC | MCTD-1209 | A150402241 | 2024.05.18 | 2025.05.17 |
| Spectrum Analyzer | ROHDE&SCHWARZ | ESW26 | A180502935 | 2024.05.24 | 2025.05.23 |
| Portable Spectrometer | ROHDE&SCHWARZ | FSH8 | A140401672 | 2024.02.13 | 2025.02.12 |
| Prode | ROHDE&SCHWARZ | TSEMF-B1 | A140401671 | 2024.02.14 | 2025.02.13 |





3. EMC EMISSION TEST

3.1 Test Procedure

Test Requirement: 47 CFR PART 18

Test Method: FCC/OST MP-5:1986

Power Supply: 120VAC/60Hz

Frequency Range: 2400-2500MHz

Detector: Peak

Limit:

ISM equipment may be operated at any frequency above 9KHz and the frequency band 2400-2500MHz is allocated for use by ISM equipment

| ISM frequency | Tolerance |
|---------------|------------|
| 6.78 MHz | ±15.0 kHz |
| 13.56 MHz | ±7.0 kHz |
| 27.12 MHz | ±163.0 kHz |
| 40.68 MHz | ±20.0 kHz |
| 915 MHz | ±13.0 MHz |
| 2,450 MHz | ±50.0 MHz |
| 5,800 MHz | ±75.0 MHz |
| 24,125 MHz | ±125.0 MHz |
| 61.25 GHz | ±250.0 MHz |
| 122.50 GHz | ±500.0 MHz |
| 245.00 GHz | ±1.0 GHz |

3.1.1 Frequency For Normal Voltage

The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1200mL water load was placed in the center of the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the original load.

3.1.2 Frequency For Line Voltage

The EUT was operated / warmed by at least 10 minutes of use with a 1200mL water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was varied between 80 and 125 percent of the nominal rating.



3.1.3 Measurement data

| Operating Mode | Frequency(MHz) |
|----------------|----------------|
| Normal Voltage | 2432.6-2470.3 |
| Line Voltage | 2433.2-2470.7 |

3.2 RADIATION HAZARD TEST

3.2.1 Test Setup

The EUT was set-up according to the FCC MP-5 and FCC Part 18 for radiation hazard measurement. The measurement was using a microwave leakage meter to measure the radiation leakage in the as-received condition with the oven door closed A 840 mL water load in a breaker was located in the center of the oven and the microwave oven was set to maximum power. While the oven operating, the microwave meter will check the leakage and then record the maximum leakage.

3.2.2 **Limit**

A maximum of 1.0mW/cm² is allowed in according with the applicable FCC standards

3.2.3 Test results

| Test location | Test result (mW/cm ²) | Limit(mW/cm ²) | Verdict |
|---------------|-----------------------------------|----------------------------|---------|
| Left side | 0.23 | 1.0 | Pass |
| Right side | 0.32 | 1.0 | Pass |
| Front | 0.36 | 1.0 | Pass |
| Rear | 0.24 | 1.0 | Pass |

There was no microwave leakage exceeding a power level of 0.36 m W/cm²Observed at any point 5cm or more from the external surface of the oven

3.3 RF OUTPUT POWER MEASUREMENT

3.3.1 Test Standard

| Test Requirement | 47 CFR PART 18 | | |
|------------------|-------------------|--|--|
| Test Method | FCC/OST MP-5:1986 | | |
| Power Supply | 120VAC/60Hz | | |





3.3.2 EUT Operating mode

Test the EUT in microwave mode with full power.

A quantity of 1 200 g -/+5 g of water is added to the container and its actual mass obtained. The food support for microwave heating is placed in the center of the support immediately. The oven is operated and the time for the water temperature to attain 20 - / + 2 °C is measured. The oven is then switched off and the final water temperature is measured with in 60s

3.3.3 Test Data

| Mass of Water(g) | Mass of the container(g) | ambient temperature | Initial temperature(°C) | Final temperature(°C) | Heating Time(S) | Output Power(Watt) |
|---------------------|--------------------------|---------------------|-------------------------|-----------------------|--------------------|-----------------------|
| 1200 | 377 | 23.7 | 10.8 | 20.2 | 60 | 775.1 |

Formula:

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);

 $m_{\rm W}$ is the mass of the water, (g);

 $m_{\rm C}$ is the mass of the container, (g);

 T_A is the ambient temperature, (°C);

 T_0 is the initial temperature of the water, (°C);

 T_1 is the final temperature of the water, (°C);

t is the heating time, in seconds, excluding the magnetron filament heating-up time.

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



4. CONDUCTED EMISSION

4.1.1 Conducted Emission Limit

| Eraguanay ranga (MUz) | Conducted Limit (dBμV) | | | | |
|-----------------------|------------------------|----------|--|--|--|
| Frequency range (MHz) | Quasi-peak | Average | | | |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 | | | |
| 0.50 - 5 | 56 | 46 | | | |
| 5 - 30 | 60 | 50 | | | |

Note:

- a) The limit decreases linearly with the logarithm of the frequency in the range $0.15~\mathrm{MHz}$ to $0.5~\mathrm{MHz}$.
- b) The lower limit is applicable at the transition frequency.

4.1.2 Test Procedure

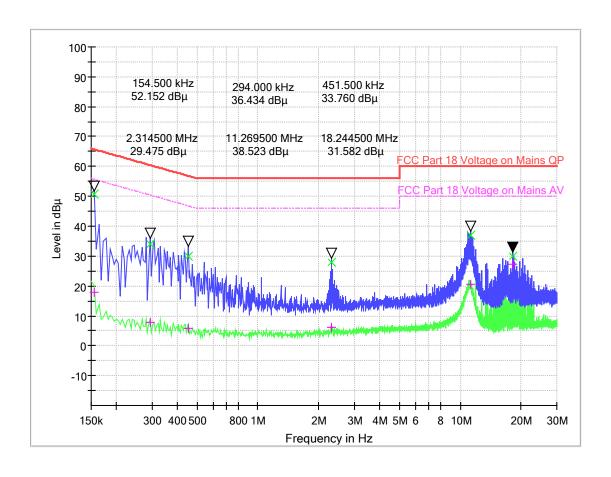
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides $50\Omega/50\mu H$ of coupling impedance for the measuring instrument. The Common Antenna is used for the call between the EUT and the System Simulator (SS). A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

4.1.3 Test Setup 80cm LISN Receiver



A. Test Result:

Mains terminal disturbance voltage, Setup1, L phase

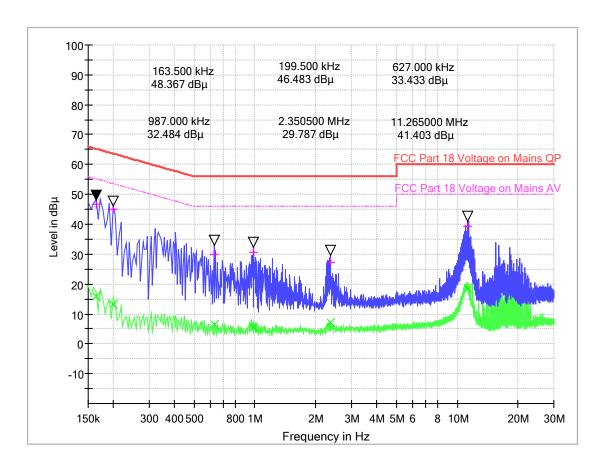


(Plot A: L Phase)

| Frequency | Quasi | Average | Cable Loss | Corr. | Margin - | Limit - | Margin - | Limit - AV |
|-----------|-------|----------|------------|-------|----------|---------|----------|--------------|
| (MHz) | Peak | (dB µ V) | (dB) | (dB) | QPK | QPK | AV | (dB μ V) |
| 0.154500 | 50.57 | 17.75 | 0.1 | 10.1 | 15.18 | 65.8 | 38.00 | 55.8 |
| 0.294000 | 34.13 | 7.79 | 0.1 | 10.1 | 26.28 | 60.4 | 42.62 | 50.4 |
| 0.451500 | 30.04 | 5.82 | 0.1 | 10.1 | 26.81 | 56.8 | 41.03 | 46.8 |
| 2.314500 | 27.92 | 6.08 | 0.2 | 10.2 | 28.08 | 56.0 | 39.92 | 46.0 |
| 11.269500 | 36.93 | 20.40 | 0.5 | 10.5 | 23.07 | 60.0 | 29.60 | 50.0 |
| 18.244500 | 29.90 | 27.40 | 0.5 | 10.5 | 30.10 | 60.0 | 22.60 | 50.0 |



Mains terminal disturbance voltage, Setup 1, N phase



(Plot B: N Phase)

| Frequency | Quasi | Average | Cable Loss | Corr. | Margin - | Limit - | Margin - | Limit - AV |
|-----------|-------|----------|------------|-------|----------|---------|----------|------------|
| (MHz) | Peak | (dB µ V) | (dB) | (dB) | QPK | QPK | AV | (dB μ V) |
| 0.163500 | 46.67 | 16.00 | 0.1 | 10.1 | 18.61 | 65.3 | 39.28 | 55.3 |
| 0.199500 | 44.96 | 13.31 | 0.1 | 10.1 | 18.67 | 63.6 | 40.32 | 53.6 |
| 0.627000 | 30.00 | 6.49 | 0.1 | 10.1 | 26.00 | 56.0 | 39.51 | 46.0 |
| 0.987000 | 30.46 | 5.50 | 0.2 | 10.2 | 25.54 | 56.0 | 40.50 | 46.0 |
| 2.350500 | 27.31 | 7.03 | 0.2 | 10.2 | 28.69 | 56.0 | 38.97 | 46.0 |
| 11.265000 | 39.22 | 18.66 | 0.5 | 10.5 | 20.78 | 60.0 | 31.34 | 50.0 |

Test Result: PASS



5. RADIATED EMISSION

5.1.1 Radiated Emission Limits

- (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
- (b) The field strength levels of emissions which lie outside the bands specified in §18.301,unless otherwise indicated, shall not exceed the following:

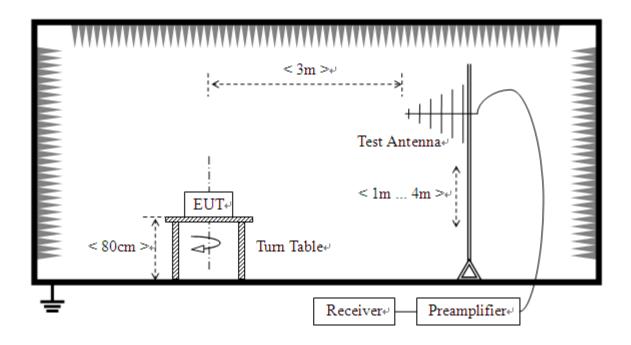
| RF Power generated by equipment(watts) | Field strength limit(uV/m) @300m |
|--|----------------------------------|
| Below 500 | 25 |
| 500or more | 25*SQRT(power/500) |

Power = 775.1W

Limit=20lg(25*SQRT(power/500))+20lg(300/3) @ 3m distance.

5.1.2 Test Setup

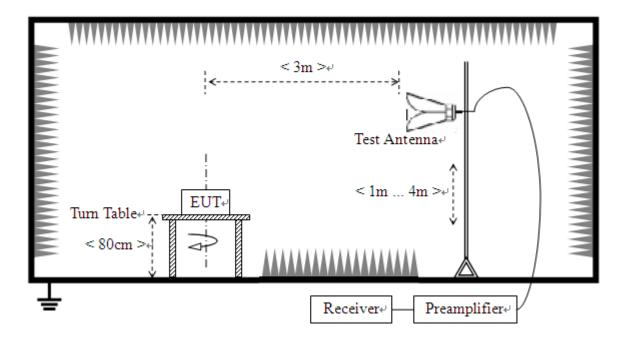
For radiated emissions from 30MHz to1GHz







For radiated emissions above 1GHz



5.1.3 Test Procedure

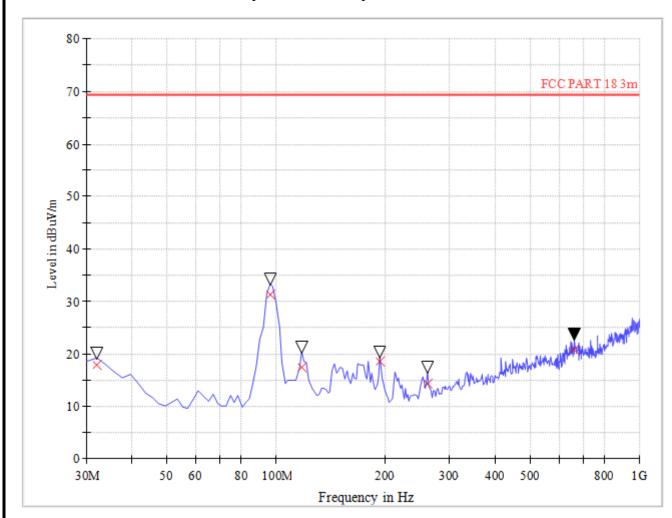
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b.The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement
- d.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.
- e.If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported





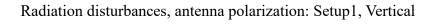
Radiation disturbances, antenna polarization:Setup1,Horizontal

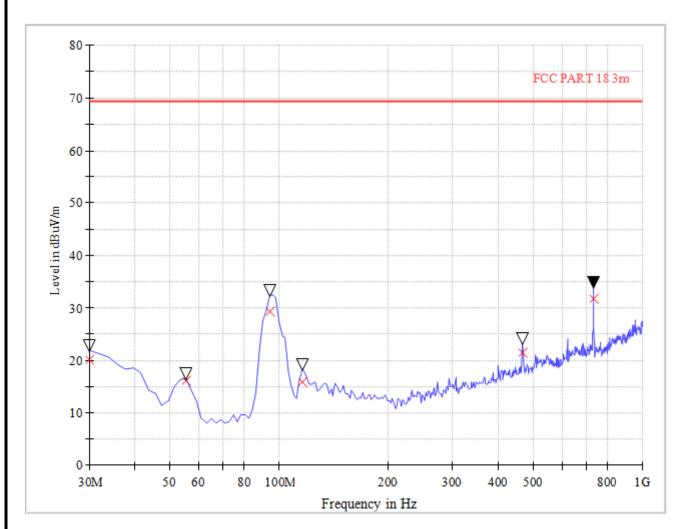


(Plot A: Test Antenna Horizontal 30M - 1G)

| Frequency (MHz) | Quasi Peak (dBµV/m) | Bandwidth (kHz) | Antenna height (cm) | Limit (dBµV/m) | Margin (dB) | Antenna | Verdict |
|--------------------|------------------------|--------------------|---------------------------|-------------------|----------------|------------|---------|
| 31.96 | 17.98 | 120.000 | 100.0 | 69.86 | 51.88 | Horizontal | Pass |
| 96.08 | 31.21 | 120.000 | 100.0 | 69.86 | 38.65 | Horizontal | Pass |
| 117.48 | 17.47 | 120.000 | 100.0 | 69.86 | 52.39 | Horizontal | Pass |
| 193.28 | 18.57 | 120.000 | 100.0 | 69.86 | 51.29 | Horizontal | Pass |
| 261.32 | 14.24 | 120.000 | 100.0 | 69.86 | 55.62 | Horizontal | Pass |
| 663.72 | 20.73 | 120.000 | 100.0 | 69.86 | 49.13 | Horizontal | Pass |







(Plot B: Test Antenna Vertical 30M - 1G)

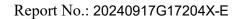
| Frequency (MHz) | Quasi Peak (dBµV/m) | Bandwidth (kHz) | Antenna height (cm) | Limit (dBµV/m) | Margin (dB) | Antenna | Verdict |
|--------------------|------------------------|--------------------|---------------------------|-------------------|----------------|----------|---------|
| 30.00 | 20.18 | 120.000 | 100.0 | 69.86 | 49.68 | Vertical | Pass |
| 55.28 | 15.99 | 120.000 | 100.0 | 69.86 | 53.87 | Vertical | Pass |
| 94.16 | 29.31 | 120.000 | 100.0 | 69.86 | 40.55 | Vertical | Pass |
| 115.52 | 15.96 | 120.000 | 100.0 | 69.86 | 53.90 | Vertical | Pass |
| 467.36 | 21.42 | 120.000 | 100.0 | 69.86 | 48.44 | Vertical | Pass |
| 733.68 | 31.81 | 120.000 | 100.0 | 69.86 | 38.05 | Vertical | Pass |



Above 1GHz, Setup1

| NO. | Freq. | Level | Factor | Limit | Margin | Height | Angle | Dolority |
|-----|----------|----------|--------|----------|--------|--------|-------|----------|
| NO. | [MHz] | [dBµV/m] | [dB] | [dBµV/m] | [dB] | [cm] | [°] | Polarity |
| 1 | 1714.18 | 49.98 | -13.09 | 69.86 | 19.88 | 100 | 113 | Vertical |
| 2 | 2436.86 | 54.52 | -10.77 | 69.86 | 15.34 | 100 | 345 | Vertical |
| 3 | 4927.98 | 52.89 | -1.56 | 69.86 | 16.97 | 100 | 287 | Vertical |
| 4 | 7729.43 | 53.68 | 2.48 | 69.86 | 16.18 | 100 | 22 | Vertical |
| 5 | 11789.20 | 53.24 | 5.38 | 69.86 | 16.62 | 100 | 94 | Vertical |
| 6 | 17621.66 | 53.16 | 12.75 | 69.86 | 16.70 | 100 | 56 | Vertical |

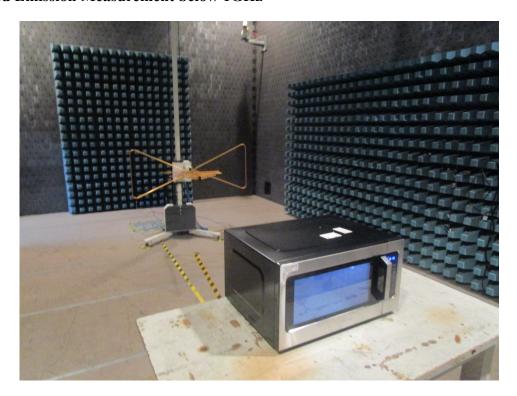
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1 | 2432.61 | 56.55 | -10.75 | 69.86 | 13.31 | 100 | 116 | Horizontal |
| 2 | 2691.92 | 51.31 | -9.65 | 69.86 | 18.55 | 100 | 333 | Horizontal |
| 3 | 4481.62 | 58.50 | -3.30 | 69.86 | 11.36 | 100 | 315 | Horizontal |
| 4 | 5761.19 | 50.58 | -1.07 | 69.86 | 19.28 | 100 | 262 | Horizontal |
| 5 | 9812.45 | 54.16 | 4.34 | 69.86 | 15.70 | 100 | 74 | Horizontal |
| 6 | 13604.40 | 56.39 | 7.69 | 69.86 | 13.47 | 100 | 291 | Horizontal |



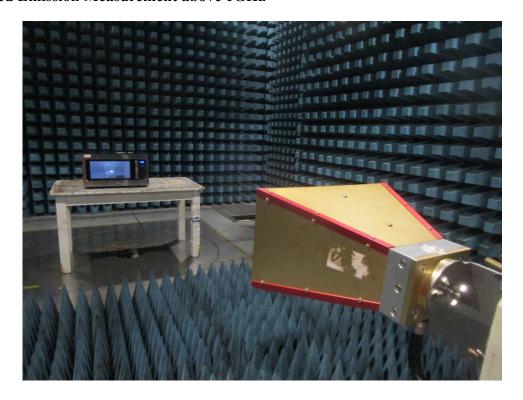


APPENDIX I: PHOTOGRAPHS OF EMC TEST CONFIGURATION

1. Radiated Emission Measurement below 1GHz



2. Radiated Emission Measurement above 1GHz





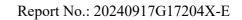


3. Conducted emission at AC mains input/output port Measurement



4. Radiation Hazard Test



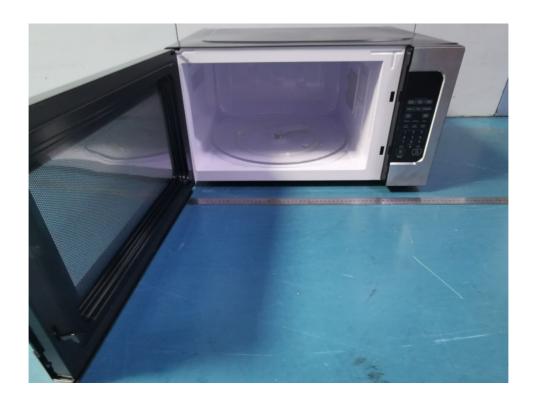


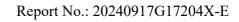


APPENDIX II: PHOTOGRAPHS OF PRODUCT PHOTO

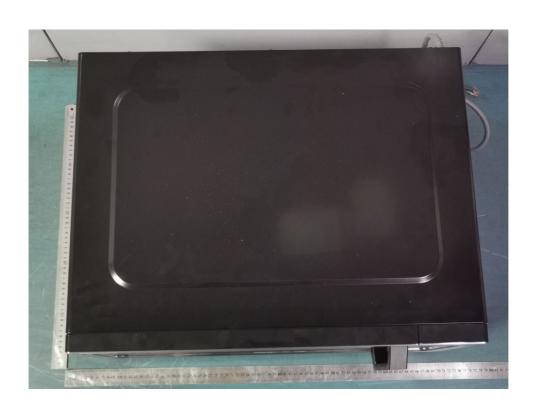
External Photo



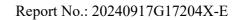








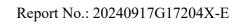










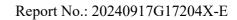




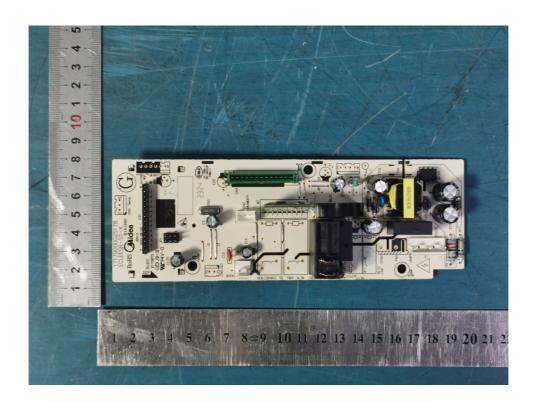
Internal Photo

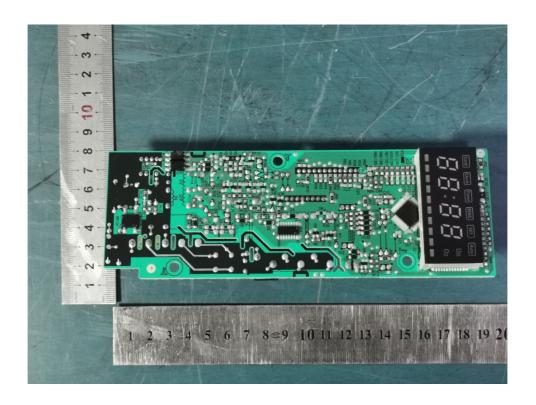


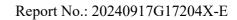








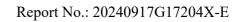




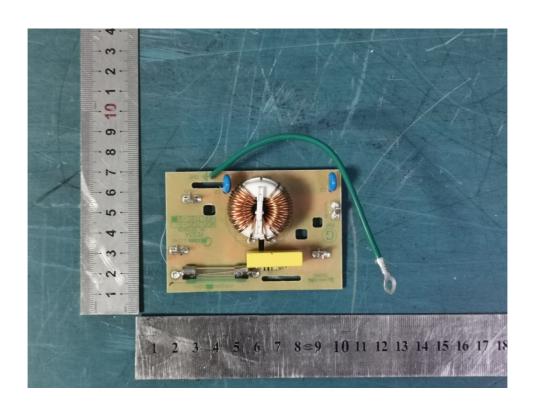


















******* End of Report *******