TEST REPORT

Report No.....	:	ZHT-230901006E
Product.....	:	Electric Pressure Cooker
Trademark.....	:	/
Model(s).....	:	DMQ-23D100F10, LB-23D45H05
Applicant.....	:	Guangdong Yangze Investment Development Co., Ltd.
Address.....	:	Room 404, Building 20, No. 139, Dongyi Road, Donghuan Street, Panyu District, Guangzhou
Manufacturer.....	:	Guangdong Yangze Investment Development Co., Ltd.
Address.....	:	Room 404, Building 20, No. 139, Dongyi Road, Donghuan Street, Panyu District, Guangzhou
Prepared by.....	:	Guangdong Zhonghan Testing Technology Co., Ltd.
Address.....	:	Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Date of Receipt.....	:	Sep. 14, 2023
Date of Test(s).....	:	Sep. 14, 2023 - Sep. 19, 2023
Date of Issue.....	:	Sep. 19, 2023
Test Standard(s).....	:	47CFR Part 15 Subpart B ANSI C63.4:2014

In the configuration tested, the EUT complied with the standards specified above.

Tested by:	Reviewed by:	Approved by:
Kevin Yang/ Engineer	Baret Wu/ Director	Levi Lee/ Manager

Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.

Table of Contents

1. Revision History

Report No.	Issue Date	Description	Approved
ZHT-230901006E	Sep. 19, 2023	Original	Valid

2. Test Summary

Emission			
Requirement - Test	Test Method	Limit	Result
Conducted Emission	47CFR Part 15 Subpart B ANSI C63.4:2014	Class B	PASS
Radiated Emission	47CFR Part 15 Subpart B ANSI C63.4:2014	Class B	PASS

Remark: N/A is abbreviation for Not Applicable.

3. General Information

3.1. Description of EUT

Product:	Electric Pressure Cooker
Model Name:	DMQ-23D100F10, LB-23D45H05
Model Difference:	/
Rated Power Supply:	Input: 110 V/ 60 Hz (1300W)
Normal Testing Voltage:	AC 120 V/ 60 Hz
DC Line	/
I/O Ports	Refer to User Manual
Highest Frequency Generated	Below 108 MHz

Note:

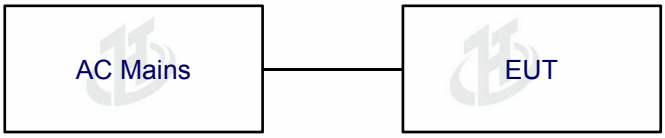
1) Other Accessory Device List and Details

Description	Manufacturer	Model	Note
--	--	--	--
--	--	--	--

2) The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3.2. Block diagram of EUT configuration

Mode 1



3.3. Test Mode

Pre - Test mode	Mode 1: Working mode		
Final Test mode	Conducted Emission		Mode 1
	Radiated Emission	Below 1 GHz	Mode 1
		Above 1 GHz	N/A

* Only the worst-case data is represented in the report.

3.4. Test Site Environment

Test Item	Required		Actual
Conducted Emission	Temperature (°C)	15-35	23.6
	Humidity (%RH)	25-75	53.8
	Barometric pressure (mbar)	860-1060	1014
Radiated Emission	Temperature (°C)	15-35	24.0
	Humidity (%RH)	25-75	54
	Barometric pressure (mbar)	860-1060	1004

4. Facilities

4.1. Test Facility

Test address ： Guangdong Zhonghan Testing Technology Co., Ltd.
Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

4.2. Test Instruments

Conducted emissions Test

Equipment	Manufacturer	Model	Last Cal.	Next Cal.
Receiver	R&S	ESCI	May 12, 2023	May 11, 2024
LISN	R&S	ENV216	May 12, 2023	May 11, 2024
CE Shielding Room	EMToni	9m4m3m	Nov. 25, 2021	Nov. 24, 2024

Radiated emissions Test (966 chamber)

Equipment	Manufacturer	Model	Last Cal.	Next Cal.
Receiver	R&S	ESCI	May 12, 2023	May 11, 2024
Loop antenna	EMCI	LAP600	May 12, 2023	May 11, 2024
Amplifier	Schwarzbeck	BBV 9743 B	May 12, 2023	May 11, 2024
Amplifier	Schwarzbeck	BBV 9718 B	May 12, 2023	May 11, 2024
Bilog Antenna	Schwarzbeck	VULB9162	May 17, 2023	May 16, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	May 17, 2023	May 16, 2024
Horn Antenna	A.H.SYSTEMS	SAS574	May 12, 2023	May 11, 2024
Amplifier	AEROFLEX	100KHz-40GHz	May 12, 2023	May 11, 2024
Spectrum Analyzer	R&S	FSV40	May 12, 2023	May 11, 2024
966 Anechoic Chamber	EMToni	9m6m6m	Nov. 25, 2021	Nov. 24, 2024

4.3. Testing software

Project	Software name	Edition
Conducted Emission	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission	EZ-EMC	FA-03A2 RE+

4.4. Measurement uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Value (dB)
Conducted Emission (150kHz-30MHz)	2.60
Radiated Emission(30MHz~1GHz)	4.60
Radiated Emission(1GHz~18GHz)	4.30

Decision Rule

☒ Uncertainty is not included

☐ Uncertainty is included

5. Emission

5.1. Conducted Emission

5.1.1. Limit

For Class B devices:

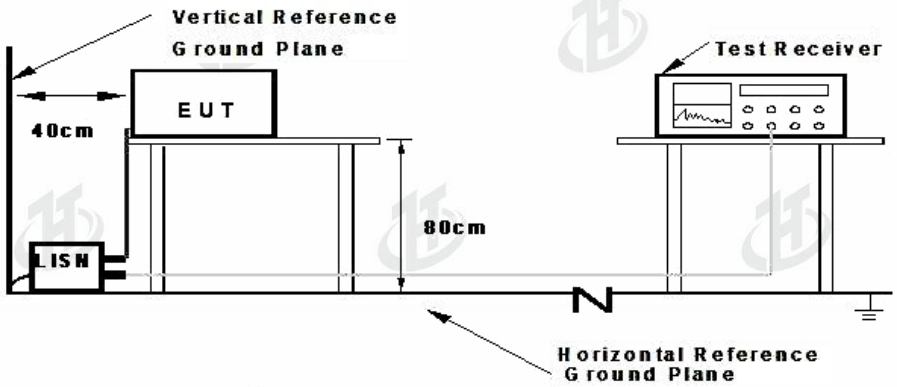
Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

For Class A devices:

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	79	66
0.5-30	73	60

5.1.2. Test setup



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

The setup of EUT is according with ANSI C63.4 measurement procedure. Specification used with FCC Part 15 limits.

5.2. Test procedure

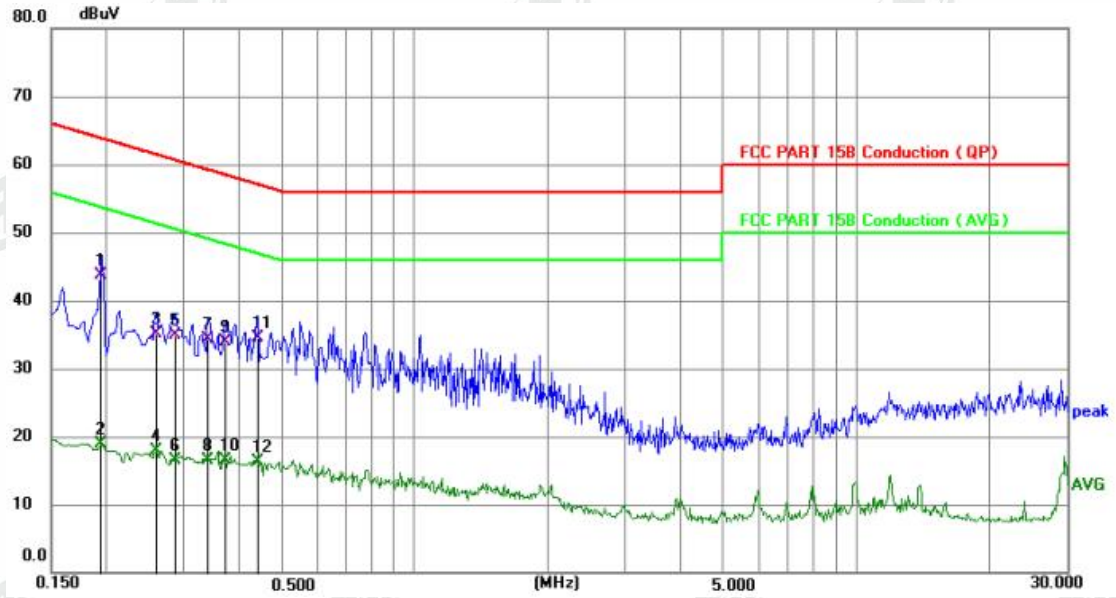
Measurement was performed in shielded room, and instruments used were followed clause 4 of ANSI C63.4.
Detailed test procedure was following clause 7 of ANSI C63.4.
Frequency range 150kHz – 30MHz was checked and EMI receiver measurement bandwidth was set to 9 kHz.

5.3. Test results

PASS

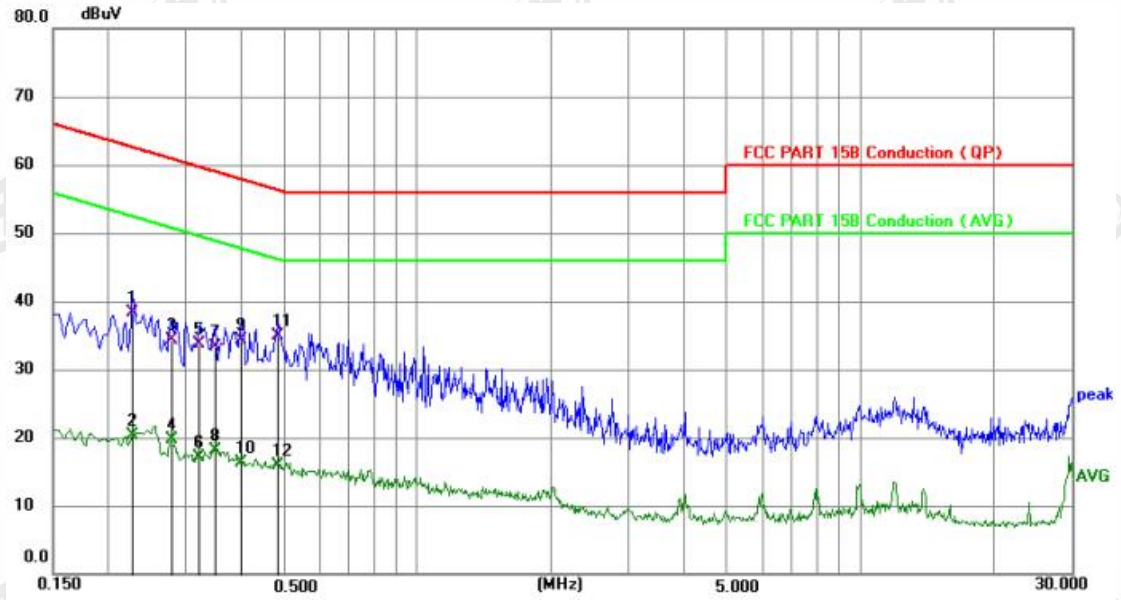
Please refer to pages 11-12 for data.

Phase: Live



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1949	33.87	9.91	43.78	63.83	-20.05	QP	P	
2	0.1949	9.03	9.91	18.94	53.83	-34.89	AVG	P	
3	0.2580	25.18	9.93	35.11	61.50	-26.39	QP	P	
4	0.2580	7.89	9.93	17.82	51.50	-33.68	AVG	P	
5	0.2850	24.96	9.94	34.90	60.67	-25.77	QP	P	
6	0.2850	6.48	9.94	16.42	50.67	-34.25	AVG	P	
7	0.3390	24.31	9.96	34.27	59.23	-24.96	QP	P	
8	0.3390	6.54	9.96	16.50	49.23	-32.73	AVG	P	
9	0.3704	24.01	9.98	33.99	58.49	-24.50	QP	P	
10	0.3704	6.51	9.98	16.49	48.49	-32.00	AVG	P	
11	0.4380	24.49	10.00	34.49	57.10	-22.61	QP	P	
12	0.4380	6.30	10.00	16.30	47.10	-30.80	AVG	P	

Phase: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2265	28.29	9.92	38.21	62.58	-24.37	QP	P	
2	0.2265	10.38	9.92	20.30	52.58	-32.28	AVG	P	
3	0.2760	24.32	9.94	34.26	60.94	-26.68	QP	P	
4	0.2760	9.71	9.94	19.65	50.94	-31.29	AVG	P	
5	0.3209	23.80	9.96	33.76	59.68	-25.92	QP	P	
6	0.3209	7.17	9.96	17.13	49.68	-32.55	AVG	P	
7	0.3480	23.25	9.96	33.21	59.01	-25.80	QP	P	
8	0.3480	8.24	9.96	18.20	49.01	-30.81	AVG	P	
9	0.3975	24.38	9.99	34.37	57.91	-23.54	QP	P	
10	0.3975	6.24	9.99	16.23	47.91	-31.68	AVG	P	
11 *	0.4830	24.99	10.01	35.00	56.29	-21.29	QP	P	
12	0.4830	5.99	10.01	16.00	46.29	-30.29	AVG	P	

Note: Level=Reading + Factor
Margin=Level – Limit

5.4. Radiated emissions

5.5. Limit

For Class B devices (at 3m):

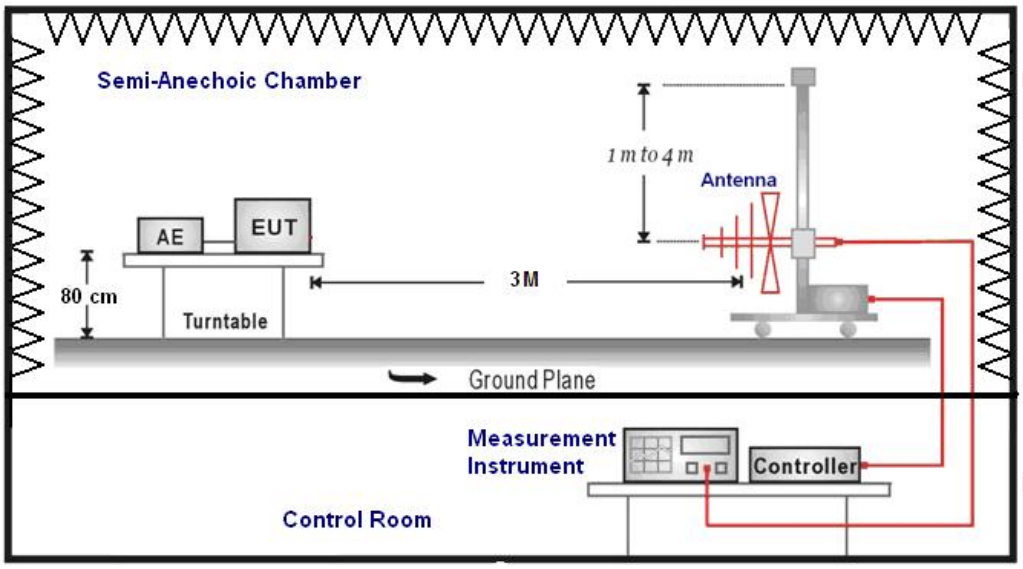
Frequency of emission (MHz)	(microvolts/meter)	(dBμV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

For Class A devices (at 10m):

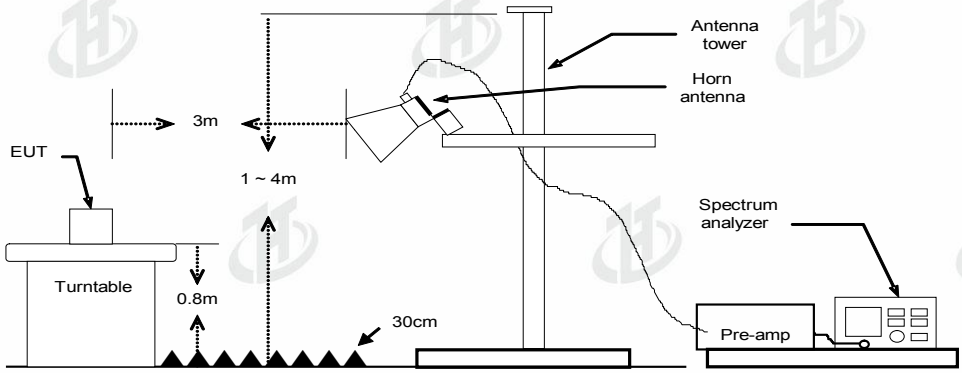
Frequency of emission (MHz)	(microvolts/meter)	(dBμV/m)
30-88	90	39
88-216	150	43.5
216-960	210	46.4
Above 960	300	49.5

5.6. Test setup

Radiated Emission Test Set-Up Frequency Below 1 GHz



Radiated Emission Test Set-Up Frequency Above 1GHz



The radiated tests were performed in semi-anechoic(3m) test site, using the setup accordance with the ANSI C63.4:2014.

5.7. EMI Test Receiver Setup and Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver and Spectrum Analyzer were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz-1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1 MHz	3 MHz	/	AVG

5.8. Test procedure

The measurement was performed in a 3m semi-anechoic chamber, and instruments used were followed clause 4 of ANSI C63.4.
Detailed test procedure was following clause 8 of ANSI C63.4.
Note: for the measurement distance other than 3m and 10m, the limit is varied according to 20dB/10 decades.

5.9. Corrected Amplitude & Margin Calculation

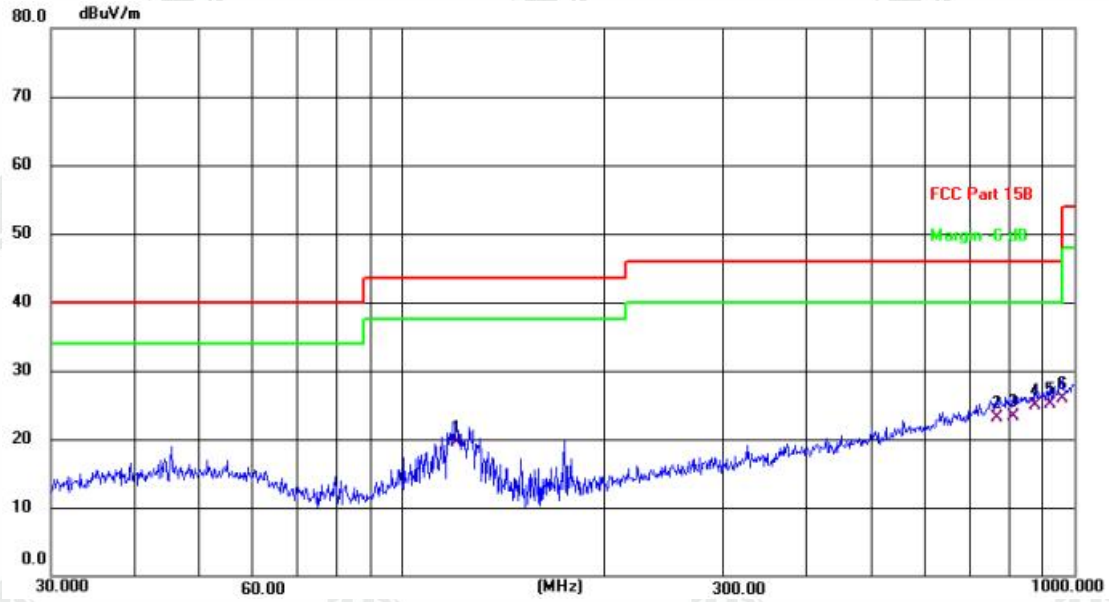
The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:
Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:
Margin = Limit – Corrected Amplitude

5.10. Test results

PASS

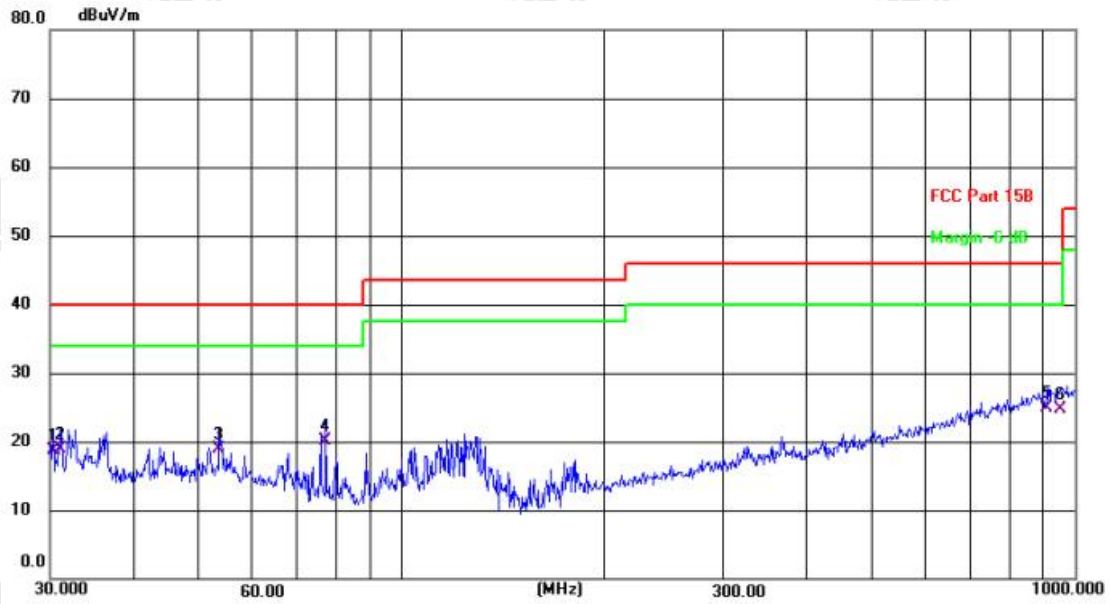
Please refer to pages 15-16 for data.

Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	120.2766	32.24	-12.69	19.55	43.50	-23.95	QP			P	
2	766.0571	22.28	0.75	23.03	46.00	-22.97	QP			P	
3	810.2653	22.03	1.37	23.40	46.00	-22.60	QP			P	
4	875.2470	22.62	2.24	24.86	46.00	-21.14	QP			P	
5	919.2865	22.32	2.81	25.13	46.00	-20.87	QP			P	
6 *	958.7943	22.70	3.30	26.00	46.00	-20.00	QP			P	

Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.3172	29.25	-10.54	18.71	40.00	-21.29	QP			P	
2	31.0706	29.37	-10.43	18.94	40.00	-21.06	QP			P	
3	53.5052	27.60	-8.71	18.89	40.00	-21.11	QP			P	
4 *	77.0505	33.63	-13.54	20.09	40.00	-19.91	QP			P	
5	909.6666	22.11	2.70	24.81	46.00	-21.19	QP			P	
6	952.0937	21.51	3.21	24.72	46.00	-21.28	QP			P	

Note: Level=Reading + Factor
Margin=Level – Limit

6. Photographs of EUT

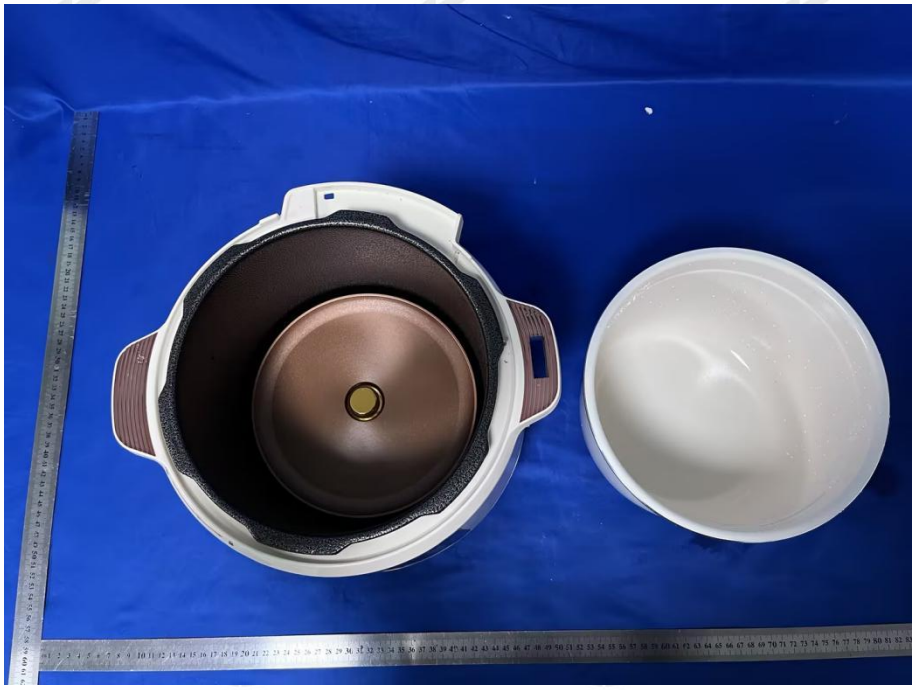
EUT Photo 1

EUT Photo 2

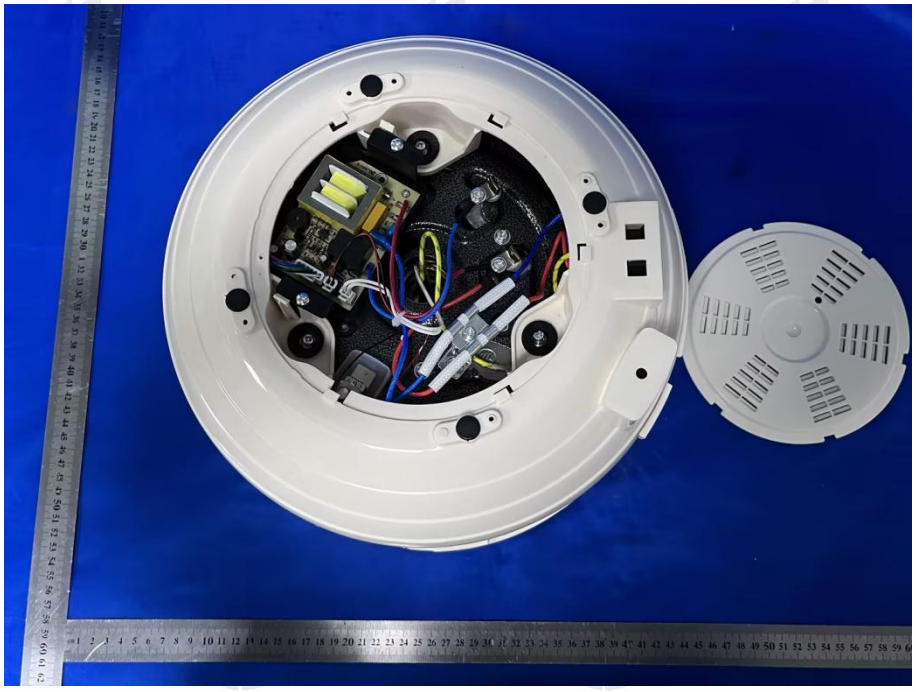
EUT Photo 3

EUT Photo 4

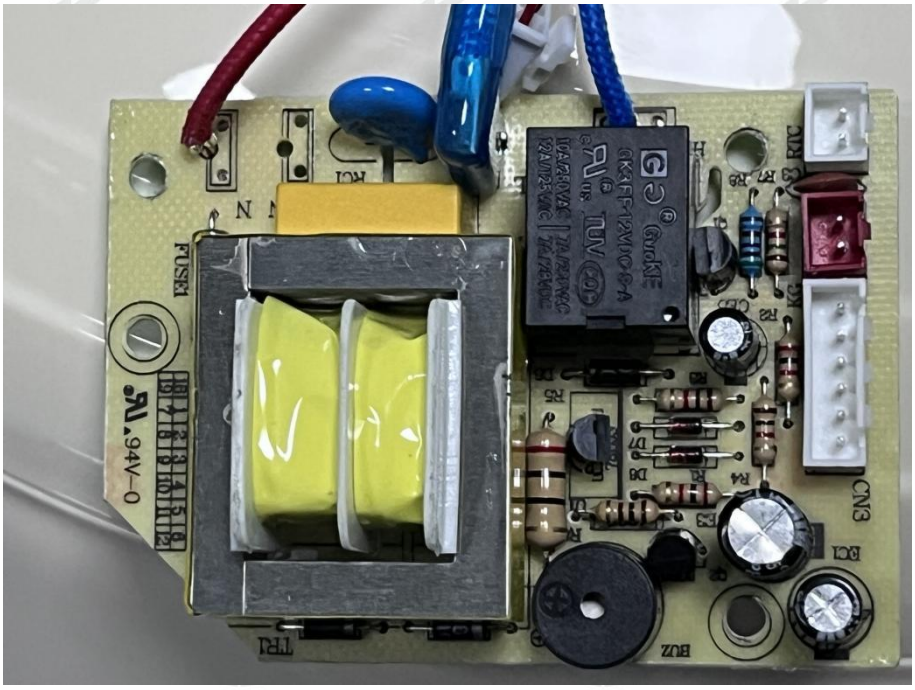
EUT Photo 5



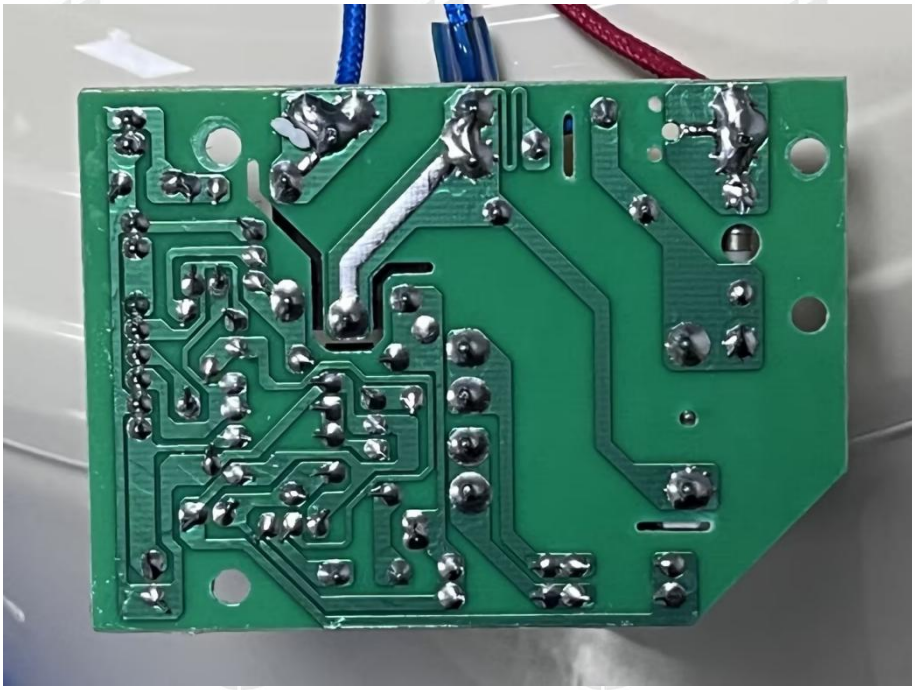
EUT Photo 6



EUT Photo 7



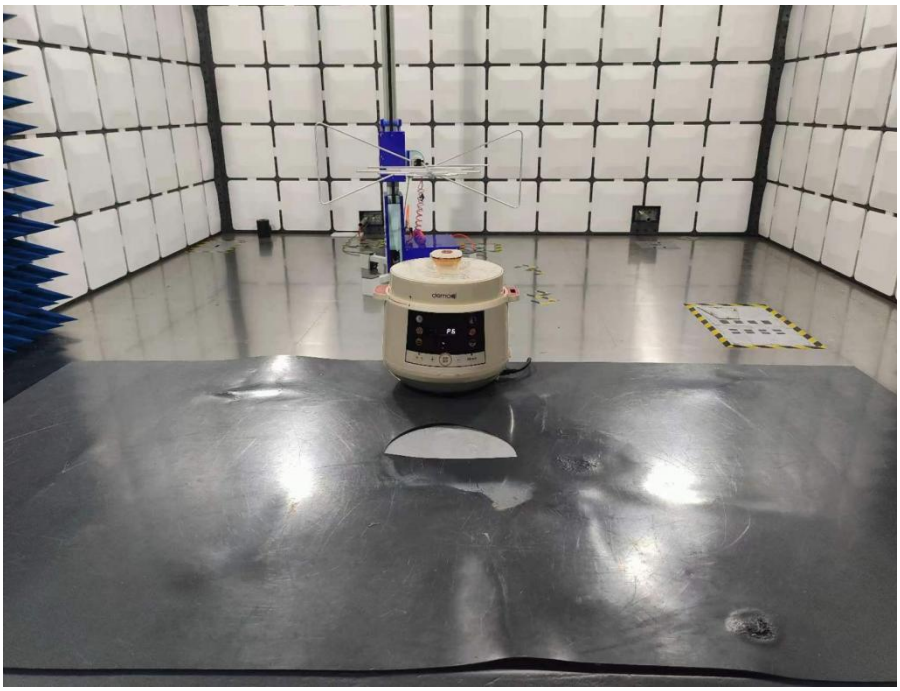
EUT Photo 8



7. Test Setup Photographs

Conducted Emission

Radiated Emission



End of report